

Hangar 1 Data Summary Submittal

Low Occupancy Area of Zone 3

Former Naval Air Station Moffett Field, California

prepared on behalf of
Planetary Ventures, LLC

prepared by
Rincon Consultants, Inc.

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Acronyms and Abbreviations

CCC	Certified Coating Company
DCB	Decachlorobiphenyl
DQO	Data Quality Objective
DSS	Data Summary Submittal
DUA	Data Useability Assessment
EKI	EKI Environment & Water, Inc.
Enthalpy	Enthalpy Analytical, LLC
ft^2	Square Feet
LCS	Laboratory Control Spike
LCSD	Laboratory Control Spike Duplicate
LDC	Lab Data Consultants
McCarthy	McCarthy Building Companies, Inc.
MPC	Measurement Performance Criteria
NACE	National Association of Corrosion Engineers
NASA	National Aeronautics and Space Administration
NTCRA	Non-Time-Critical Removal Action
PCB	Polychlorinated Biphenyl
PV	Planetary Ventures, LLC
QA	Quality Assurance
QC	Quality Control
QL	Quantitation Limit
Rincon	Rincon Consultants, Inc.
RPD	Relative Percent Difference
SOP	Standard Operating Procedure
SSPC	Society for Protective Coatings
TCMX	Tetrachloro-m-Xylene
UCL	Upper Confidence Limit
µg/100 cm^2	Micrograms per 100 Square Centimeters
µg/ft^2	Micrograms per Square Foot
UFP-QAPP	Uniform Federal Policy Quality Assurance Project Plan
U.S. EPA	United States Environmental Protection Agency
Water Board	San Francisco Bay Regional Water Quality Control Board

Executive Summary

Rincon Consultants, Inc. (Rincon) has prepared this Data Summary Submittal (DSS) on behalf of Planetary Ventures, LLC (PV) for the sampling and analytical activities associated with abatement activities within the low occupancy area of Zone 3 of Hangar 1 (Figure 1), located at the Former Naval Air Station Moffett Field, California. This work was conducted pursuant to the Agency-approved Final Hangar 1 Non-Time-Critical Removal Action (NTCRA) Work Plan. This DSS has been prepared to document achievement of the Cleanup Goals for the structural steel within the low occupancy area of Zone 3 of Hangar 1.

The National Association of Corrosion Engineers (NACE) inspections indicated that the lead and polychlorinated biphenyl (PCB) impacted paint was successfully removed and the surface cleanliness goal has been met, as shown in Attachment 1, and the Data Usability Assessment (DUA) indicates that the collected confirmation wipe sampling data are suitable for comparison against the numerical Cleanup Goals. The 95-percent upper confidence limit (UCL) for the mean lead confirmation in the 80 confirmation wipe samples collected from within the low occupancy area of Zone 3 was approximately 120 micrograms per square foot (µg/ft^2), which is below the numerical Cleanup Goal for lead (i.e., 250 µg/ft^2). The 95-percent UCL for the mean PCB concentration in the confirmation wipe samples was not calculated because PCBs were not detected above the highest reported laboratory quantitation limit of 0.5 microgram per 100 square centimeters (i.e., ≤0.5 µg/100 cm^2) in any of the confirmation samples collected from within the low occupancy area of Zone 3.

Based on the NACE inspections and the lead and PCB confirmation wipe sampling results, the low occupancy area of Zone 3 is suitable for unrestricted use. Based on the findings presented herein, PV requests that the United States Environmental Protection Agency (U.S. EPA) and San Francisco Regional Water Quality Control Board (Water Board) provide concurrence that no further abatement is required for the low occupancy area of Zone 3.

1 Introduction

Rincon Consultants, Inc. (Rincon) has prepared this Data Summary Submittal (DSS) on behalf of Planetary Ventures, LLC (PV) to document attainment of the Cleanup Goals within the low occupancy area[1] of Zone 3 of Hangar 1 (Figure 1), located at Former Naval Air Station Moffett Field, California, conducted pursuant the Agency-approved[2] Final Hangar 1 Non-Time-Critical Removal Action (NTCRA) Work Plan (EKI, 2022). Additional details about the sampling procedures and analytical methods used in the collection of these samples are presented in the NTCRA Work Plan.

The NTCRA is currently being performed by PV on behalf of the National Aeronautics and Space Administration (NASA), the Responsible Party for Hangar 1, and is being conducted by McCarthy Building Company (McCarthy), which has been retained by PV. The United States Environmental Protection Agency (U.S. EPA) and the San Francisco Bay Regional Water Quality Control Board (Water Board) are the Regulatory Agencies with regulatory oversight during implementation of the NTCRA. Additional details about the removal action are presented in the NTCRA Work Plan (EKI, 2022).

This DSS has been prepared to document achievement of the Cleanup Goals for the structural steel within the low occupancy area of Zone 3 of Hangar 1 and includes:

(1) The National Association of Corrosion Engineers (NACE) inspection reports documenting the removal of all visible paint from the abated surfaces and achievement of a NACE #3/Society for Protective Coatings (SSPC) SP-6 Surface Cleanliness Standard (Attachment 1);
(2) The tabulated final confirmation sampling results for the validated data (Attachment 2);
(3) The final laboratory analytical reports for the confirmation wipe samples and field quality control (QC) samples (Attachment 3);
(4) The input and output files for the calculated 95-percent upper confidence limit (UCL) for the mean concentration of lead in the confirmation wipe samples (Attachment 4); and,
(5) The data validation reports prepared by Lab Data Consultants (LDC) (Attachment 5).

In addition to the information above, this DSS includes the final laboratory analytical reports for the clearance wipe samples collected from both the high and low occupancy areas of Enclosures A/B and C/D, and a table summarizing these results (Attachment 6).

[1] The low occupancy area of Zone 3 includes the area above the arch pin (i.e., 55-feet above the hangar floor) in Enclosures A/B and C/D.

[2] The NTCRA Work Plan was approved by the Agencies on March 4, 2022.

2 Attainment of Cleanup Goals

In accordance with Section 5.1 of the NTCRA Work Plan, the Cleanup Goals for non-porous surfaces in low occupancy areas are as follows.

Substrate	Chemicals	Elements	Cleanup Goals
Non-Porous Surfaces	• Lead • PCBs	• Visual Inspection by qualified NACE/SSPC surface coating inspector	• No visible paint remains • Achievement of NACE 3/SSPC SP-6 surface preparation and visible cleanliness standard
		• Collection and analysis of wipe confirmation samples	• Lead: <250 micrograms per square foot (µg/ft^2) • PCBs: ≤100 micrograms per 100 square centimeters (µg/100 cm^2)

The numerical Cleanup Goal is that the 95-percent UCL of the mean concentration of lead and PCBs in the confirmation wipe samples are below the indicated levels. In addition, the NTCRA Work Plan requires that no single confirmation wipe sample result exceeds 5-times the Cleanup Goal and that no more than 10-percent of the confirmation wipe sample results exceed 3-times the Cleanup Goal.

The visual inspection (Section 2.1) and confirmation wipe sampling (Section 2.2) results indicate that the Cleanup Goals have been met and no additional abatement is necessary within the low occupancy area of Zone 3.

2.1 Visual Inspections

In accordance with the NTCRA Work Plan, following completion of abatement and cleaning activities[3] and prior to the collection of confirmation wipe samples, a qualified NACE inspector inspected the surfaces for the presence of visible paint and the achievement of a NACE #3/SSPC SP-6 surface cleanliness standard.

Within the low occupancy area of Zone 3, the qualified NACE inspector confirmed that all visible paint had been removed from the abated surfaces and that the abated surfaces achieved a NACE #3/SSPC SP-6 surface cleanliness standard or better. The NACE inspection reports are included in Attachment 1.[4]

[3] Abatement in Zone 3 was completed on April 13, 2023.

[4] The Zone and Enclosure, as well as the scaffolding levels that correspond with wipe sample locations are provided within the header and/or notes sections of the NACE inspection reports.

2.2 Confirmation Sampling Results

In accordance with the NTCRA Work Plan, following confirmation that the non-porous surfaces met NACE #3/SSPC SP-6 surface preparation and visual cleanliness standard, confirmation wipe samples were collected for comparison to the numerical Cleanup Goals for lead and PCBs.

2.2.1 Initial Abatement and Sampling Efforts

A total of 184 confirmation wipe samples[5] were initially collected from the low occupancy area of Zone 3, including QC samples (i.e., field blank samples[6] and field duplicate samples). Of the 184 confirmation wipe samples and associated QC samples, ninety-two (92) were lead wipe samples and 92 were PCB wipe samples, including:

- Eighty (80) lead confirmation wipe samples and 80 PCB confirmation wipe samples;
- Four lead field blank samples and four PCB field blank samples; and,
- Eight lead duplicate confirmation wipe samples and eight PCB duplicate confirmation wipe samples.

The tabulated confirmation wipe sampling and QC results, with both laboratory and data validation flags are included in Attachment 2. The laboratory analytical reports for confirmation wipe samples and QC samples are included in Attachment 3. Based on the data validation reports (Attachment 5), QC samples, and the data useability assessment (Section 3), the validated confirmation sampling data (Attachment 2) are considered suitable for comparison to the numerical Cleanup Goals.

2.2.2 Re-Abatement and Re-Sampling Efforts

Within Zone 3 Enclosure A/B and Enclosure C/D, lead was detected above the Cleanup Goal in seven samples at concentrations ranging from 290 µg/ft^2 to 900 µg/ft^2. Although the reported concentrations were not greater than 5-times the Cleanup Goal for lead, and less than 10-percent of the analytical results within the low occupancy area were greater than 3-times the Cleanup Goal, Certified Coatings Company (CCC) and McCarthy opted to re-abate at one location.[7] The approximately 2,000 square foot area represented by the sample location was re-abated, re-cleaned, re-inspected, and re-sampled, which resulted in the collection of one additional lead sample. As seen in Table 1, lead concentration in the confirmation wipe sample collected following re-abatement was below the Cleanup Goal. As PCBs were not detected in any of the confirmation wipe samples, re-abatement due to elevated PCB concentrations and re-sampling for PCBs was not necessary.

Table 1 Lead Wipe Re-Abatement Summary

Initial Sample ID	Initial Lead Concentration (µg/ft^2)	Lead Concentration After Re-Abatement (µg/ft^2)
ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-LA	900	11

2.2.3 Evaluation of the Confirmation Wipe Sampling Data

Once re-abatement, re-cleaning, and re-sampling activities were completed, a total of six of the lead confirmation wipe samples collected from throughout Zone 3, or 7-percent, exceeded the Cleanup Goal

[5] This count includes the initial wipe samples that met the Cleanup Goals and those that did not meet the Cleanup Goals. Subsequent wipe samples collected from areas that were re-abated and re-sampled are not included in this count and are discussed in Section 2.2.2.

[6] Field blank samples referred to throughout this report were called media blank samples at the time of collection, therefore in laboratory analytical reports and data validation reports, these samples are referred to as media blank samples.

[7] CCC and McCarthy opted to re-abate one location with a lead concentration 900 µg/ft^2 to ensure that the Cleanup Goal for lead was met at the conclusion of abatement in the low occupancy area of Zone 3.

of <250 µg/ft^2 and while one of the lead confirmation wipe samples, or 1-percent, exceeded 3-times the Cleanup Goal, none of these samples exceeded 5-times the Cleanup Goal.

Rincon calculated the 95-percent UCL for the mean lead concentration in the confirmation wipe samples using Version 5.2 of the ProUCL program (U.S. EPA, 2022). The results for the field blank samples, the lower of the duplicate sampling results, and the original results from the location that was re-abated and re-sampled were not included in the calculation of the 95-percent UCL. The 95-percent UCL input and output files are included in Attachment 4. As shown in Table 2, the 95-percent UCL of the mean lead concentration (i.e., 120 µg/ft^2) in the confirmation wipe samples is below the Cleanup Goal.

All PCB confirmation wipe sample results were below 0.5 µg/100 cm^2 (i.e., the highest of the reported laboratory quantitation limits [QL]), therefore, none of the PCB sample results exceeded the Cleanup Goals for the low occupancy area of ≤100 µg/100 cm^2. The 95-percent UCL of the mean PCB concentration was not calculated because PCBs were not detected above laboratory QLs in any of the confirmation wipe samples collected.

Table 2 95-Percent UCL for Confirmation Wipe Samples

Analyte	Method	Cleanup Goal	95% UCL
Lead	US EPA Method 3050M/6010B	<250 µg/ft^2	120 µg/ft^2
PCB	US EPA Method 8082	≤100 µg/100 cm^2	--[a]

Notes:
[a] The 95-percent UCL was not calculated for PCBs because all analytical results were below laboratory QLs.

3 Data Usability Assessment

This section summarizes Rincon's review of the data validation reports prepared by LDC for the confirmation wipe samples (Attachment 5). It also reviews field documentation and procedures for compliance with sampling procedures included in the Uniform Federal Policy Quality Assurance Project Plan (UFP-QAPP) as well as the number of samples and field QC samples to confirm they are consistent with the frequencies listed in the UFP-QAPP.

Based on this data usability assessment (DUA), the validated confirmation sampling data are considered suitable to assess whether the 95-percent UCL of the mean concentrations of lead and PCBs in the confirmation wipe samples are less than the numerical Cleanup Goals. However, as all PCB confirmation wipe sample results were below the highest reported laboratory QL (i.e., 0.5 µg/100 cm^2), a 95-percent UCL of the mean concentration for PCBs could not be calculated.

3.1 Data Verification

At the end of each day, Rincon personnel verified that appropriate field records were present and complete for each specific activity conducted. In addition, Rincon personnel verified that all the planned samples, including field QC samples, were collected and adequately documented. The Rincon Data Manager verified that all changes/exceptions to the scope of work were documented and reported appropriately in Biweekly Reports prepared during abatement activities. Chain-of-custody forms were reviewed daily by the Rincon Data Manager to confirm that each form was filled out appropriately, and that all required samples, signatures, and dates were present.

A field audit by Rincon's field manager, which included a review of the field sampling protocols, was conducted on December 9, 2022. Rincon's field manager observed field personnel conducting field sampling activities to confirm that all activities were conducted in accordance with standard operating procedures (SOPs) developed for field sampling activities associated with the NTCRA.[8] The results of the field audit indicated that the field activities being conducted at Hangar 1, including confirmation wipe sampling activities, were being conducted in accordance with the NTCRA Work Plan as well as the SOPs developed for field activities associated with the NTCRA.

Field QC samples were collected in accordance with the UFP-QAPP. A summary of the total number of confirmation samples and field QC samples is provided for lead and PCBs in Table 3 and Table 4, respectively.

[8] For more information, please refer to the Biweekly Report for the period ending on December 16, 2022.

Table 3 Lead Wipe Sample Summary

	No. of Lead Confirmation Wipe Samples	No. of Field Duplicates or Frequency	No. of Field Blanks or Frequency[b]
Required frequency per UFP-QAPP Worksheet #20-2	1 sample per every 2,000 ft^2 of abated steel	10%	5%
Anticipated Number of Samples	73 [a]	8 [10%]	4 [5%]
Actual Square Footage within the Low Occupancy Area of Zone 3	158,314 ft^2		
Samples Collected	80	8	4
Actual Frequency	1 sample per 1,900 ft^2 of abated steel	10%	5%
Re-Abatement Samples Collected	1	--	--

Notes:
[a] Original sample counts outlined in the UFP-QAPP were based on an estimated surface area of 145,000 ft^2 of steel.
[b] Field blank samples collected within Zone 3 are referred to as media blank samples in the UFP-QAPP.

Table 4 PCB Wipe Sample Summary

	No. of PCB Confirmation Wipe Samples	No. of Field Duplicates or Frequency	No. of Field Blanks or Frequency[b]
Required frequency per UFP-QAPP Worksheet #20-2	1 sample per every 2,000 ft^2 of abated steel	10%	5%
Anticipated Number of Samples	73 [a]	8 [10%]	4 [5%]
Actual Square Footage within the Low Occupancy Area of Zone 3	158,314 ft^2		
Samples Collected	80	8	4
Actual Frequency	1 sample per 1,900 ft^2 of abated steel	10%	5%

Notes:
[a] Original sample counts outlined in the UFP-QAPP were based on an estimated surface area of 145,000 ft^2 of steel.
[b] Field blank samples collected within Zone 3 are referred to as media blank samples in the UFP-QAPP.

As the total square footage of steel in Zone 3 was higher than that estimated in Worksheet #20-2, more confirmation wipe samples were collected in the low occupancy area than outlined in Worksheet #20-2 of the UFP-QAPP. The actual confirmation lead and PCB wipe sampling frequency (i.e., one sample per 1,900 square feet [ft^2] of abated steel) as well as the frequencies of the field duplicate and media blank samples were consistent with the frequencies per the UFP-QAPP (Worksheet #20-2).

3.2 Data Validation

LDC conducted data validation on the analytical laboratory reports for the confirmation wipe samples collected, which included a review of chain-of-custody forms and laboratory deliverables. Stage 3 validation was conducted on 48 samples and Stage 2A validation was conducted on the remaining 136 samples (Attachment 5).

Based on LDC's review of the analytical laboratory reports and their supporting data, no sample results were qualified using flags (Attachment 5); therefore, none of the analytical results were rejected. See Section 3.4 and Attachment 5 for additional details.

3.3 Data Precision

Data precision is a quantitative measure of the variability of a group or data compared with their average value. Precision is stated in terms of relative percent difference (RPD) for pairs of data or relative standard deviation for larger groups of data. Below is a discussion of the data precision evaluation conducted on the confirmation wipe samples collected.

3.3.1 Laboratory Duplicate Samples

A summary of laboratory duplicate samples is presented in Table 5.

Table 5 Laboratory Duplicate Sample Summary

Laboratory QC Sample	No. of Lab QC Samples Analyzed	MPC	No. of Lab QC Samples Exceeding MPC	Percentage of Laboratory QC Samples that Exceeded the MPC
LCS/LCSD – Lead	9	RPD ≤20%	0	0%
LCS/LCSD – PCB	7	RPD ≤20%	0	0%

Notes:
LCS: Laboratory Control Spike
LCSD: Laboratory Control Spike Duplicate

Laboratory duplicate samples were analyzed at the required frequency outlined in the Worksheet #28 of the UFP-QAPP (i.e., at least one laboratory control spike [LCS]/laboratory control spike duplicate [LCSD] pair per 20 samples or per batch if less than 20 samples). All lead and PCB duplicate laboratory sample pairs met the Measurement Performance Criteria (MPC) outlined in the UFP-QAPP.

3.3.2 Field Duplicate Samples

A summary of the field duplicate samples is provided in Table 6.

Table 6 Field Duplicate Sample Summary

Analyte – Sample Type	No. of Field Duplicate Samples Collected	MPC	No. of Field Duplicate Samples in Exceedance of the MPC	Percentage of Field Duplicate Samples that Exceeded the MPC
Lead – Wipe	8	RPD ≤100%	0	0%
PCB – Wipe	8	RPD ≤100%	--[b]	--[b]

Notes:
[b] In accordance with the UFP-QAPP, RPDs were not calculated for duplicate samples where the analyte is less than the QL in one or both samples.

All lead duplicate samples met the MPC outlined in the UFP-QAPP; the agreement between results of the original sample and the duplicate sample indicate that the cleaning procedures used prior to sampling were implemented consistently throughout the abated area and that the field sampling was conducted in a reproducible manner.

PCBs were not detected above laboratory QLs in any of the duplicate samples collected and as a result, RPDs could not be calculated.

3.4 Data Accuracy/Bias

Data bias may result from systematic analytical error and is evaluated based on laboratory spike results for routine QC samples prepared and analyzed by the analytical laboratory.[9] Data accuracy is a measure of the overall agreement with a known value and includes a combination of random error and systematic error, with both parameters potentially resulting from analytical error. Data accuracy is evaluated using laboratory QC samples.

3.4.1 Laboratory QC Samples

A summary of the laboratory QC samples is provided in Table 7.

Table 7 Laboratory QC Sample Summary

Laboratory QC Samples	No. of Samples Analyzed	MPC	No. of Samples Outside of the MPC	Percentage of Samples that do not meet MPC
Lead LCS and LCSD	18	%R 80-120%	0	0%
Lead Method Blank Samples	9	<QL	0	0%
PCB LCS and LCSD	14	%R 60-140%	0	0%
PCB Method Blank Samples	7	<QL	0	0%
Notes: %R: Percent Recovery				

All of the laboratory QC samples for lead and PCB confirmation wipe samples met the MPC outlined in the UFP-QAPP.

3.4.2 Laboratory Surrogate Spikes

PCB samples are spiked with two surrogates during analysis, tetrachloro-m-xylene (TCMX) and decachlorobiphenyl (DCB). The percent recovery of both surrogates is recorded during analysis and indicates analytical method performance with each sample.

All PCB confirmation wipe samples and laboratory QC samples had percent recoveries for TCMX and DCB that were within the laboratory defined limits.

3.4.3 Field QC Samples

A summary of the field blank samples is provided in Table 8.

Table 8 Field QC Sample Summary

Laboratory QC Samples	No. of Samples Analyzed	MPC	Percentage of Samples that do not meet MPC
Lead Field Blank Samples	4	<10 µg/ft^2	0%
PCB Field Blank Samples	4	<QL	0%

Following comments from the Water Board and U.S. EPA on the Zone 2 Data Summary Submittal regarding low-level lead detections in the field blank samples,[10] Rincon described its blank sample collection procedures and proposed corrective actions in its *Lead Detections in Media Blank Samples (Zone 2 Data Summary Submittal) Memorandum* (Media Blank Memo; Rincon, 2023b). As summarized in the Media Blank Memo, all of the field QC samples collected thus far during the NTCRA have been field

[9] As indicated in the UFP-QAPP, matrix spike and matrix spike duplicate samples are not prepared and analyzed for wipe samples.

[10] See Footnote 5.

blank samples, not media blank samples. After submission of the Media Blank Memo to the Water Board and U.S. EPA, the following corrective actions were implemented:

- As of August 3, 2023, field QC samples collected in from within the enclosure are referred to as field blank samples;
- Beginning with confirmation sampling activities in Zone 4 Enclosure C/D, during confirmation sampling activities, media blank samples will be collected for lead in addition to field blank samples for lead; and
- The MPC for lead field blank samples will be revised to be <10 µg/ft^2, the MPC for lead media blank samples will be <QL.

The field QC samples collected in the Low Occupancy Area of Zone 3 were identified as media blank samples at the time of collection, however, for the purpose of this report the language has been revised to refer to these samples as field blank samples. The samples are still labeled as media blank samples in the laboratory analytical reports (Attachment 3) and confirmation wipe sampling summary table (Attachment 2).

Lead was detected above the laboratory QL in all four of the field blank samples collected; however, they did not exceed the MPC of <10 µg/ft^2 and all analytical results for field blank samples are two orders of magnitude lower than the Cleanup Goal for lead. As described in the Data Summary Submittal for the High Occupancy Area of Zone 1 (Rincon, 2023a), the lead reported in field blank samples is likely a result of low concentrations of lead dust that are known to be in the air following abatement and cleaning activities within the enclosures as opposed to lead contamination in the wipe sampling media.[11] Therefore, while lead in the enclosure may be impacting field blank samples, the same ambient lead concentrations are likely impacting all the confirmation wipe samples and as a result are likely biasing the lead confirmation wipe sampling results high, resulting in a more conservative evaluation of residual lead concentrations.

No lead confirmation wipe sample results were less than 5-times the concentration of lead detected in the associated field blank samples; therefore, no data qualifiers were added to the lead confirmation wipe sampling results. PCBs were not detected above laboratory QLs in any of the field blank samples.

3.5 Summary of Representativeness, Completeness, and Comparability

3.5.1 Representativeness

Representativeness is a qualitative measure that expresses the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at the sampling point, a process condition, or an environmental condition. The following were evaluated to assess the representativeness of the wipe sampling data collected from the low occupancy area of Zone 3:

[11] Because lead was detected in personal air samples that were collected during NACE inspection and confirmation wipe sampling activities, it is understood that lead dust remains suspended in the air throughout such activities and is anticipated to contribute small to negligible concentrations of lead to confirmation wipe samples. NACE inspectors, Rincon, and any other trades that may enter the structure before it is pressure washed are required to wear half-faced respirators with P100 filters, which protects these personnel from potential exposures to the residual concentrations of lead containing dust that may be present in the air within the enclosures.

- A field audit, which included a review of the field sampling protocols, was conducted on December 9, 2022. Sample collection was performed in compliance with the field SOPs included in the UFP-QAPP for the collection and analysis of lead and PCB confirmation wipe samples; and
- All confirmation wipe samples were analyzed within acceptable sample holding times and all field and laboratory personnel adhered to the appropriate sample handling and storage requirements outlined in the UFP-QAPP.[12]

Because the samples were collected in accordance with the procedures outlined in the UFP-QAPP, the samples should be considered representative of the materials that were sampled.

3.5.2 Completeness

A summary of the completeness of the confirmation wipe samples is summarized in Table 9.

Table 9 Completeness for Confirmation Wipe Samples

Analyte – Sample Type	Total No. of Samples	Usable Results (%)	Unusable Results (%)	% Completeness - MPC
Lead – Wipe	92	100%	0%	>90%
PCB – Wipe	92	100%	0%	>90%

Completeness is a measure of the amount of valid data obtained from a measurement system compared to the total number of measurements necessary to achieve DQOs at a specified level of confidence. After data validation, the percent completeness is calculated by dividing the number of samples with valid data by the number of samples collected. Valid data includes both unqualified data that passes all QC criteria and qualified data that did not pass all the QC criteria but that was not flagged for rejection.

The data validation process did not result in the rejection of any confirmation wipe sampling data and as a result the % completeness (i.e., 100%) exceeds the MPC.

3.5.3 Comparability

Comparability is a qualitative term that expresses the confidence with which a data set can be compared with another. Data is considered comparable if quality assurance (QA)/QC measures, such as sample collection procedures, analytical methods, reporting units, and analytical reporting limits are equivalent for the samples within a data set. Adherence to QA/QC measures assures that samples collected in similar conditions (i.e., the low occupancy area of Zone 3) are comparable. Comparability criteria are met if, based on data validation, the sample collection and analytical procedures are determined to have been followed, or variations in sample collection and analytical procedures were deemed to not have resulted in sample results being rejected.

To ensure comparability of the data generated for the low occupancy area of Zone 3, sample collection and analytical procedures adhered to the requirements outlined in the UFP-QAPP. Based on the field audit conducted on December 9, 2022, as well as regular reviews of field forms and chain-of-custody forms, it was determined that field activities, including confirmation wipe sampling activities, were

[12] Rincon personnel and/or the laboratory provided courier deliver the confirmation wipe samples to the Enthalpy Analytical location in Berkeley, CA. Upon receipt of the confirmation wipe samples, the laboratory staff then complete a sample check in form prior to shipping the samples to the Enthalpy Analytical location in Orange, CA. Upon receipt of the samples at the Enthalpy Analytical location in Orange, CA, a second sample check in form is completed for the samples. However, if samples are shipped directly to Enthalpy Analytical in Orange, CA by Rincon personnel, only one sample check in form is completed by laboratory staff upon receipt of the samples in Orange, CA.

conducted in accordance with the NTCRA Work Plan as well as SOPs developed for field activities associated with the NTCRA.

3.6 Sensitivity

A summary of the sensitivity for the confirmation wipe samples is summarized in Table 10.

Table 10 Sensitivity Comparison for Confirmation Wipe Samples

Analyte	Method	Cleanup Goal	Laboratory Specific QL in UFP-QAPP	Maximum QL Reported
Lead	U.S. EPA Method 3050M/6010B	<250 µg/ft^2	0.5 µg/ft^2	0.25 µg/ft^2
PCB	U.S. EPA Method 8082	≤100 µg/100 cm^2	0.5 µg/100 cm^2	0.5 µg/100 cm^2

Sensitivity is the capability of a method or instrument to discriminate among measurement responses representing different levels of the variable of interest. The laboratory specific QL outlined in the UFP-QAPP were 0.5 µg/ft^2 for lead and 0.5 µg/100 cm^2 for PCBs. The reporting limits for all the lead and PCB confirmation wipe samples did not exceed the laboratory specific QLs as identified in the UFP-QAPP, and the sensitivities of the analytical methods were sufficient for the comparison of sample results to the numerical Cleanup Goals.

4 Clearance Wipe Sampling Results

On completion of the abatement, cleaning, inspection, sampling, and priming activities within each enclosure, the abated steel, scaffolding, and enclosure material were cleaned by pressure washing with potable water. The purpose of this cleaning was to decontaminate the space such that follow-on trades are able to work in a decontaminated work environment.

In accordance with the UFP-QAPP, following pressure washing activities, clearance wipe samples were collected from the decontaminated surfaces in both the high and low occupancy areas of Enclosures A/B and C/D and analyzed for lead and PCBs to demonstrate that the contents of each enclosure had been adequately cleaned and that the average lead and PCB concentrations in the enclosures were not greater than the Clearance Goals (i.e., <250 µg/ft^2 for lead and ≤10 µg/100 cm^2 for PCBs).

Rincon conducted a review of laboratory analytical reports for the clearance wipe samples collected in Zone 3. The data review process included:

- Review of field records, including field data sheets, chain-of-custody forms, relevant correspondence, change orders and deviations, and field corrective action reports; and,
- Review of the analytical data package, including cover sheet, case narrative, sample receipt record, sample chronology, communication record, analytical results, definition of laboratory qualifiers, results reporting form, QC sample results, corrective action reports, and electronic data deliverables.

The tabulated analytical results and final analytical laboratory reports for the clearance wipe samples collected in Zone 3 are presented in Attachment 6. The average lead clearance sampling results for Enclosure A/B and C/D are 129 and 99 µg/ft^2, respectively. PCBs were not detected above the maximum laboratory QL (i.e., 0.5 µg/100 cm^2) in any of the clearance wipe samples.

Flags were applied to clearance sample results in Attachment 6 based on Rincon's review of the analytical reports. "U" flags were applied to two lead results that were less than 5-times the concentration of lead detected in the field blank sample. In addition, "b" flags were applied to four lead sample results due to low recoveries for lead in the presence of high concentrations of aluminum in the interference check standards; however, these recoveries did not have any impact on data quality.[13]

Based on this review, the clearance sampling data are considered suitable to assess whether the average concentrations of lead and PCBs in the clearance wipe samples are less than the numerical Clearance Goals.

In accordance with Worksheet #17 of the UFP-QAPP, the average concentration of lead and PCBs in the clearance samples collected in both the high and low occupancy areas of each enclosure were compared with the Clearance Goals. As the averages of the clearance sampling results for the cleaned scaffolding, structural steel, and enclosure materials were below the Clearance Goals of <250 µg/ft^2 for lead and ≤10 µg/100 cm^2 for PCBs, these materials were adequately decontaminated, and no additional decontamination was required for the two enclosures within Zone 3.

[13] High recoveries were reported for aluminum in the interference check standards resulting in a "b" flag applied to select sample results. While high aluminum recoveries in interference check standards may indicate that lead concentrations in sample results could be biased high, Enthalpy's lead analyst reported that aluminum recoveries were not similarly high in the results that were associated with the clearance samples. Therefore, the potential for high bias is not applicable to the clearance sample results and the interference check standard did not have a material effect on the data quality.



5 Conclusions

Based on the NACE inspections and the DUA, the lead and PCB confirmation wipe sampling results are suitable for comparison against their respective Cleanup Goals. The 95-percent UCL for the mean lead concentration in the confirmation wipe samples collected within the low occupancy area of Zone 3 was approximately 120 µg/ft^2, which is below the Cleanup Goal for lead (i.e., 250 µg/ft^2). The 95-percent UCL for the mean PCB concentration in the confirmation wipe samples was not calculated because PCBs were not detected above the highest reported laboratory quantitation limit of 0.5 µg/100 cm^2 in any of the confirmation samples collected from within the low occupancy area of Zone 3.

Given that the 95-percent UCL for lead confirmation wipes is below the Cleanup Goal for lead and that no PCBs were detected above the highest laboratory reporting limit, the low occupancy area of Zone 3 is suitable for unrestricted use.

PV requests that the U.S. EPA and Water Board provide concurrence that no further abatement is required for the low occupancy area of Zone 3.

6 References

EKI Environment & Water, Inc. (EKI). 2022. *NTCRA Work Plan, Former Naval Air Station Moffett Field, California*. EKI Environment & Water, Inc. March 14, 2022.

Rincon Consultants, Inc. (Rincon). 2023a. *Hangar 1 Data Summary Submittal, High Occupancy Area of Zone 1, Former Naval Air Station Moffett Field, California.* March 2023.

Rincon. 2023b. *Lead Detections in Media Blank Samples (Zone 2 Data Summary Submittal) Memorandum*. August 2023.

United States Environmental Protection Agency (U.S. EPA). 2022. *ProUCL: Statistical Software for Environmental Applications for Data Sets with and without Nondetect Observations*. Version 5.2. https://www.epa.gov/land-research/proucl-software, 2022.

Figures



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Plan Map and Cross Section of Zone 3

Figure 1

Attachment 1

NACE Inspection Forms

CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	TJ GARLAND-ISRAEL VILLALOBOS	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Monday, December 12, 2022
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREAS C AND D		MOFFETT FIELD CA.94305

Environmental Conditions:

									Specified Conditions
Time	12:30 PM	3:30 PM	5:30 PM						
Dry Bulb	63.7 °F	65.7 °F	56.8 °F						
Wet Bulb	58.0 °F	58.2 °F	49.0 °F						
Depression	5.7 °F	7.5 °F	7.8 °F						
Relative Humidity	70.4%	62.6%	75.0%						
Dew Point	53.9 °F	52.6 °F	46.8 °F						
Steel temp	63.9 °F	65.7 °F	57.2 °F						
Difference	10.0 °F	13.1 °F	10.4 °F						
Conditions	SAT	SAT	SAT						

Environmental Controls? CONTAINMENT AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ **STEEL** ☐ **CONCRETE** ☐ **WOOD** ☐ **OTHER**

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: Pre cleaning solvent clean and power tool clean as needed
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.5 mils



PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep:
Specified Material: Material Applied:
Part A Batch #'s: Part A Batch #'s:
Part B Batch #'s: Part B Batch #'s:
Part C Batch #'s: Part C Batch #'s:
Thinner Batch #'s: Thinner Batch #'s:
Mix Time: Start Application: Time Complete: Pot Life:
Mix Time: Start Application: Time Complete: Pot Life:
Mix Time: Start Application: Time Complete: Pot Life:
Material Temp: Typical Wet Film Readings: mils
Qty. Mixed: Qty. Applied: Approximate SF:
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: Material Applied:
Part A Batch #'s: Part A Batch #'s:
Part B Batch #'s: Part B Batch #'s:
Part C Batch #'s: Part C Batch #'s:
Thinner Batch #'s: Thinner Batch #'s:
Mix Time: Start Application: Time Complete: Pot Life:
Mix Time: Start Application: Time Complete: Pot Life:
Mix Time: Start Application: Time Complete: Pot Life:
Material Temp: Typical Wet Film Readings: mils
Qty. Mixed: Qty. Applied: Approximate SF:
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST;REPL;ACE THE TARPS ON THE CONTAINMENT ROOF AND THEN STARTED ABRASIVE BLASTING AGAIN IN ZONE 3CD LEVELS 25,24,21,23,17,13. SURFACE PREP~~AND COATINGS APPLICATIONS~~ PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: Date: 12/12/2022
QC Supervisor Signature: Date: 12-16-22

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	TJ GARLAND-ISRAEL VILLALOBOS	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Tuesday, December 13, 2022
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREAS C AND D		MOFFETT FIELD CA.94305

Environmental Conditions:

	6:30 AM	10:30 AM	2:30 PM	6:30 PM					Specified Conditions
Time									
Dry Bulb	56.6 °F	56.9 °F	55.2 °F	52.1 °F					
Wet Bulb	52.1 °F	51.8 °F	51.4 °F	48.7 °F					
Depression	4.5 °F	5.1 °F	3.8 °F	3.2 °F					
Relative Humidity	73.0%	70.0%	77.3%	78.2%					
Dew Point	48.1 °F	47.2 °F	48.2 °F	45.5 °F					
Steel temp	54.9 °F	55.1 °F	53.7 °F	50.6 °F					
Difference	6.8 °F	7.9 °F	5.5 °F	5.1 °F					
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMEN, HEATERS,DEHUMIDIFIER
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: Pre cleaning solvent clean and power tool clean as needed
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.5 mils

3.5
12-13-22



PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time:	Start Application:	Time Complete:	Pot Life:	
Mix Time:	Start Application:	Time Complete:	Pot Life:	
Mix Time:	Start Application:	Time Complete:	Pot Life:	

Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time:	Start Application:	Time Complete:	Pot Life:	
Mix Time:	Start Application:	Time Complete:	Pot Life:	
Mix Time:	Start Application:	Time Complete:	Pot Life:	

Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST; CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 3CD AT LEVELS 12-15-17-21-23-24 AND 25.
SURFACE PREP ~~AND COATINGS APPLICATIONS~~ PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 12/13/2022
QC Supervisor Signature: _____ Date: 12-16-22

Form No. QC0005 Revision: 2 Rev. Date 23-Sep-22 The results relate only to items inspected/tested
Distribution: 1. Jobsite file 2. Project Manager 3. Client
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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3 AREAS C AND D

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Wednesday, December 14, 2022
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

	8:54 AM	12:54 PM	4:54 PM	8:54 PM					Specified Conditions
Time									
Dry Bulb	55.6 °F	55.8 °F	67.3 °F	52.9 °F					
Wet Bulb	49.0 °F	47.4 °F	55.5 °F	48.3 °F					
Depression	6.6 °F	8.4 °F	12.8 °F	4.6 °F					
Relative Humidity	60.3%	48.3%	42.0%	70.8%					
Dew Point	42.1 °F	36.6 °F	43.5 °F	43.7 °F					
Steel temp	53.5 °F	54.1 °F	65.7 °F	51.4 °F					
Difference	11.5 °F	17.5 °F	22.2 °F	7.6 °F					
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMEN, HEATERS,DEHUMIDIFIER
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER _____

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: N/A PSI
Comments: Pre cleaning solvent clean and power tool clean as needed
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.6 mils

PRESS-O-FILM™ Made in U.S.A.
sample 12.14.22
reading 3.6
gage less 2.0 mils or 50 µm
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST; CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 3CD AT LEVELS 13-14-16-21-22-23-25.
SURFACE PREP. ~~AND COATINGS APPLICATIONS~~ PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 12/14/2022
QC Supervisor Signature: _____ Date: 12-16-22

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3 AREAS C AND D

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Thursday, December 15, 2022
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

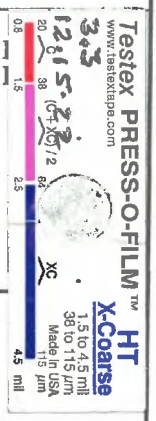
									Specified Conditions
Time	5:54 AM	10:54 AM	2:54 PM	6:54 PM					
Dry Bulb	44.0 °F	50.8 °F	65.7 °F	57.2 °F					
Wet Bulb	39.5 °F	46.1 °F	54.0 °F	49.8 °F					
Depression	4.5 °F	4.7 °F	11.7 °F	7.4 °F					
Relative Humidity	64.6%	68.9%	40.7%	56.7%					
Dew Point	32.9 °F	41.0 °F	41.2 °F	42.0 °F					
Steel temp	41.8 °F	49.4 °F	64.4 °F	55.7 °F					
Difference	8.9 °F	8.4 °F	23.1 °F	13.7 °F					
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMEN, HEATERS,DEHUMIDIFIER
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]
Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: N/A PSI
Comments: Pre cleaning solvent clean and power tool clean as needed
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.3 mils



PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST; CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 3CD AT LEVELS 13-14-16-21-22-23-25. SURFACE PREP.~~AND COATINGS APPLICATIONS~~ PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 12/15/2022
QC Supervisor Signature: _____ Date: 12-16-22

Form No. QC0005 Revision: 2 Rev. Date 23-Sep-22 The results relate only to items inspected/tested
Distribution: 1. Jobsite file 2. Project Manager 3. Client
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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	TJ GARLAND-ISRAEL VILLALOBOS	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Friday, December 16, 2022
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREAS C AND D		MOFFETT FIELD CA.94305

Environmental Conditions:

									Specified Conditions
Time	5:54 AM	9:54 AM	1:54 PM						
Dry Bulb	41.2 °F	47.1 °F	63.4 °F						
Wet Bulb	37.4 °F	41.1 °F	52.7 °F						
Depression	3.8 °F	6.0 °F	10.7 °F						
Relative Humidity	68.2%	56.1%	43.4%						
Dew Point	31.6 °F	32.2 °F	40.8 °F						
Steel temp	39.0 °F	45.2 °F	62.0 °F						
Difference	7.5 °F	13.0 °F	21.2 °F						
Conditions	SAT	SAT	SAT						

Environmental Controls? CONTAINMEN, HEATERS,DEHUMIDIFIER
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

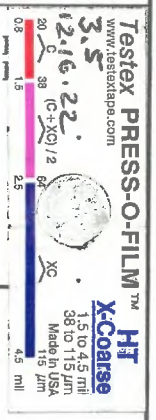
☑ **STEEL** ☐ **CONCRETE** ☐ **WOOD** ☐ **OTHER** _____

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]

Pressure Washing: N/A PSI
Comments: Pre cleaning solvent clean and power tool clean as needed
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.5 mils

3.5 12.16.22



PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST; CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 3CD AT LEVELS 9-10-11-12-13-19 AND 20;ABRASIVE BLASTED FROM 06:30 TILL 11:00. SURFACE PREP~~AND COATINGS APPLICATIONS~~ PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 12/16/2022
QC Supervisor Signature: _____ Date: 6-26-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	TJ GARLAND-ISRAEL VILLALOBOS	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Monday, December 19, 2022
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREAS C AND D		MOFFETT FIELD CA.94305

Environmental Conditions:

Time	5:54 AM	9:54 AM	1:54 PM	5:54 PM					Specified Conditions
Dry Bulb	41.9 °F	46.9 °F	53.1 °F	52.8 °F					
Wet Bulb	37.2 °F	43.2 °F	47.4 °F	46.7 °F					
Depression	4.7 °F	3.7 °F	5.7 °F	6.1 °F					
Relative Humidity	60.7%	72.6%	63.5%	60.7%					
Dew Point	29.4 °F	38.6 °F	41.0 °F	39.7 °F					
Steel temp	39.6 °F	45.0 °F	51.4 °F	51.4 °F					
Difference	10.3 °F	6.4 °F	10.3 °F	11.7 °F					
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMEN, HEATERS,DEHUMIDIFIER
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: Pre cleaning solvent clean and power tool clean as needed
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.5 mils

PRESS-O-FILM™ Made in U.S.A.
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA
sample reading gage ipss 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST; AFTER BLOW DOWN CONTINUE ABRASIVE BLASTING STRUCTURAL STEEL IN ZONE 3CD AT LEVELS 8-9-10-11-12-16-19;ABRASIVE BLASTED FROM 08:35 TILL 17:30. SURFACE PREP.AND COATINGS APPLICATIONS PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 12/19/2022
QC Supervisor Signature: _____ Date: 1-9-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3 AREAS C AND D

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Tuesday, December 20, 2022
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

	5:54 AM	9:54 AM	1:54 PM	5:54 PM					Specified Conditions
Time									
Dry Bulb	48.3 °F	52.1 °F	58.2 °F	56.8 °F					
Wet Bulb	42.3 °F	47.1 °F	51.7 °F	50.3 °F					
Depression	6.0 °F	5.0 °F	6.5 °F	6.5 °F					
Relative Humidity	57.3%	67.6%	62.9%	62.1%					
Dew Point	33.9 °F	41.7 °F	45.6 °F	45.9 °F					
Steel temp	46.6 °F	50.6 °F	56.7 °F	55.5 °F					
Difference	12.7 °F	8.8 °F	11.1 °F	11.6 °F					
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMEN, HEATERS,DEHUMIDIFIER
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]

Pressure Washing: N/A PSI
Comments: Pre cleaning solvent clean and power tool clean as needed
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.7 mils

PRESS-O-FILM™ Made in U.S.A.
TESTEX NEWARK, DE 19715 USA
X COARSE Plus (useful range: see data sheet)
sample reading 12.20.22
reading 3.7
gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST; BLOW DOWN STRUCTURAL STEEL;SWEEP BLAST SPOTS MARKED FOR WIPE TESTING;SQUARE UP SOME AREAS AND CONTINUE BLOWING DOWN THE REST OF THE DAY. SURFACE PREP.AND COATINGS APPLICATIONS PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 12/20/2022
QC Supervisor Signature: _____ Date: 1-9-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	OMAR PINERA-TJ GARLAND	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Wednesday, January 18, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREA D		MOFFETT FIELD CA.94305

Environmental Conditions:

									Specified Conditions
Time	5:12 AM	9:12 AM	1:12 PM	5:12 PM					
Dry Bulb	52.0 °F	49.9 °F	51.5 °F	56.4 °F					
Wet Bulb	48.0 °F	46.3 °F	47.7 °F	52.5 °F					
Depression	4.0 °F	3.6 °F	3.8 °F	3.9 °F					
Relative Humidity	73.9%	75.4%	75.5%	77.0%					
Dew Point	44.0 °F	42.5 °F	44.0 °F	49.3 °F					
Steel temp	50.6 °F	48.4 °F	49.8 °F	55.1 °F					
Difference	6.6 °F	5.9 °F	5.8 °F	5.8 °F					
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ **STEEL** ☐ **CONCRETE** ☐ **WOOD** ☐ **OTHER** _____

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.6 mils

PRESS-O-FILM™ Made in USA. TESTEX NEWARK, DE 19715 USA X COARSE Plus (useful range: see data sheet) sample 1-18-23 reading 3.6 gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA D.

ABRASIVE BLASTING PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 1/17/2023
QC Supervisor Signature: _____ Date: 1-25-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	OMAR PINERA-TJ GARLAND	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Friday, January 20, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREA D		MOFFETT FIELD CA.94305

Environmental Conditions:

	6:12 AM	10:12 AM	2:12 PM	6:12 PM					Specified Conditions
Time									
Dry Bulb	46.1 °F	50.7 °F	55.4 °F	56.3 °F					
Wet Bulb	42.6 °F	43.6 °F	46.9 °F	48.6 °F					
Depression	3.5 °F	7.1 °F	8.5 °F	8.7 °F					
Relative Humidity	74.7%	51.5%	47.8%	53.9%					
Dew Point	38.5 °F	33.5 °F	35.9 °F	39.8 °F					
Steel temp	44.2 °F	48.8 °F	53.5 °F	55.1 °F					
Difference	5.7 °F	15.3 °F	17.6 °F	15.3 °F					
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

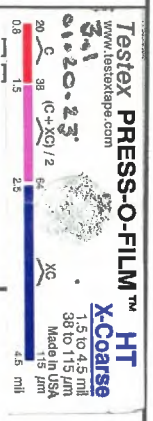
SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.1 mils



PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA D,LEVELS 1,2,3,4,5,6,7 AND 8.
ABRASIVE BLASTING PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 1/20/2023
QC Supervisor Signature: _____ Date: 1-25-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	OMAR PINERA-TJ GARLAND	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Saturday, January 21, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREA D		MOFFETT FIELD CA.94305

Environmental Conditions:

	6:12 AM	10:12 AM	2:12 PM						Specified Conditions
Time									
Dry Bulb	43.2 °F	48.5 °F	53.8 °F						
Wet Bulb	38.6 °F	43.7 °F	47.3 °F						
Depression	4.6 °F	4.8 °F	6.5 °F						
Relative Humidity	63.2%	66.4%	59.2%						
Dew Point	31.6 °F	37.8 °F	39.9 °F						
Steel temp	41.0 °F	45.6 °F	51.9 °F						
Difference	9.5 °F	7.8 °F	12.1 °F						
Conditions	SAT	SAT	SAT						

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.8 mils

PRESS-O-FILM™ Made in U.S.A.
sample I-21-23 reading 3.8 gage less 2.0 mils or 50 µm
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA D.
ABRASIVE BLASTING PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 1/21/2023
QC Supervisor Signature: _____ Date: 1-25-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	OMAR PINERA-TJ GARLAND	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Monday, January 23, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREA D		MOFFETT FIELD CA.94305

Environmental Conditions:

	6:13 AM	10:13 AM	2:13 PM	6:13 PM					Specified Conditions
Time									
Dry Bulb	51.3 °F	55.5 °F	71.0 °F	65.9 °F					
Wet Bulb	43.8 °F	46.1 °F	55.4 °F	52.1 °F					
Depression	7.5 °F	9.4 °F	15.6 °F	13.8 °F					
Relative Humidity	48.9%	40.6%	23.4%	25.6%					
Dew Point	32.8 °F	32.0 °F	31.8 °F	29.7 °F					
Steel temp	49.4 °F	53.7 °F	70.6 °F	64.5 °F					
Difference	16.6 °F	21.7 °F	38.8 °F	34.8 °F					
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER _____

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.6 mils

PRESS-O-FILM™ Made in U.S.A.
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA
sample 1-23-23
reading 3.6
gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA D,LEVELS 1,2,3,4,5,6,7 and 8.
ABRASIVE BLASTING PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 1/23/2023
QC Supervisor Signature: _____ Date: 1-25-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	OMAR PINERA-TJ GARLAND	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Wednesday, January 25, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREA D		MOFFETT FIELD CA.94305

Environmental Conditions:

									Specified Conditions
Time	6:13 AM	10:13 AM	2:13 PM	6:13 PM					
Dry Bulb	47.6 °F	52.0 °F	64.0 °F	67.2 °F					
Wet Bulb	41.4 °F	46.3 °F	52.8 °F	53.9 °F					
Depression	6.2 °F	5.7 °F	11.2 °F	13.3 °F					
Relative Humidity	54.8%	63.0%	41.2%	33.3%					
Dew Point	32.2 °F	39.8 °F	40.0 °F	37.3 °F					
Steel temp	45.8 °F	50.4 °F	62.8 °F	65.7 °F					
Difference	13.6 °F	10.5 °F	22.8 °F	28.3 °F					
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER _____

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.5 mils

PRESS-O-FILM™ Made in U.S.A.
TESTEX NEWARK, DE 19715 USA
X COARSE Plus (useful range: see data sheet)
sample 1/25/23
reading 3.5
gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: CONTINUE AND FINISHED ABRASIVE BLASTING IN ZONE 3 AREA D,ALL LEVELS AND CONTINUE BLOWING DOWN.
ABRASIVE BLASTING PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 1/24/2023
QC Supervisor Signature: _____ Date: 2-2-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	OMAR PINERA-TJ GARLAND	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Thursday, February 2, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	RE-ABRASIVE BLASTING IN ZONE 3 AREA D		MOFFETT FIELD CA.94305

Environmental Conditions:

	6:08 AM	10:08 AM	2:08 PM	6:08 PM					Specified Conditions
Time									
Dry Bulb	51.0 °F	46.1 °F	67.6 °F	62.5 °F					
Wet Bulb	43.4 °F	39.7 °F	53.9 °F	51.6 °F					
Depression	7.6 °F	6.4 °F	13.7 °F	10.9 °F					
Relative Humidity	47.4%	41.9%	31.1%	41.3%					
Dew Point	31.8 °F	24.3 °F	36.0 °F	38.7 °F					
Steel temp	49.5 °F	44.2 °F	67.4 °F	61.4 °F					
Difference	17.8 °F	21.2 °F	31.4 °F	22.7 °F					
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.8 mils

PRESS-O-FILM™ Made in U.S.A.
TESTEX
NEWARK, DE 19715 USA
X COARSE Plus (useful range: see data sheet)
sample reading 3.8 2-2-23
gage less 2.0 mils or so µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST,STARTED RE-ABRASIVE BLASTING PREVIOUSLY IDENTIFIED AREAS IN ZONE 3 AREA D,FROM GROUND LEVEL TO LEVEL 3 FOR A TOTAL OF 14,000 + SQ.FT. ABRASIVE BLASTING PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 2/2/2023
QC Supervisor Signature: _____ Date: 2-3-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	OMAR PINERA-TJ GARLAND	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Friday, February 3, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	RE-ABRASIVE BLASTING IN ZONE 3 AREA D		MOFFETT FIELD CA.94305

Environmental Conditions:

	6:44 AM	10:44 AM	2:44 PM	6:44 PM					Specified Conditions
Time									
Dry Bulb	55.2 °F	59.0 °F	55.2 °F	53.8 °F					
Wet Bulb	47.3 °F	49.2 °F	47.3 °F	48.7 °F					
Depression	7.9 °F	9.8 °F	7.9 °F	5.1 °F					
Relative Humidity	51.4%	43.6%	51.4%	67.8%					
Dew Point	37.6 °F	36.9 °F	37.6 °F	43.5 °F					
Steel temp	53.7 °F	55.6 °F	53.7 °F	52.1 °F					
Difference	16.1 °F	18.8 °F	16.1 °F	8.6 °F					
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☑]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.8 mils

PRESS-O-FILM™ Made in U.S.A.
TESTEX NEWARK, DE 19715 USA
X COARSE Plus (useful range: see data sheet)
sample reading 3.8 page less 2.0 mils or 50 µm
2.3.23

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST,CONTINUE RE-ABRASIVE BLASTING PREVIOUSLY IDENTIFIED AREAS IN ZONE 3 AREA D, AND STARTED BLOWING DOWNFROM GROUND LEVEL TO LEVEL 3 FOR A TOTAL OF 14,000 + SQ.FT. ABRASIVE BLASTING PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 2/3/2023
QC Supervisor Signature: _____ Date: 2-6-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	OMAR PINERA-TJ GARLAND	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Friday, February 10, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREA B		MOFFETT FIELD CA.94305

Environmental Conditions:

	10:59 AM	2:59 PM	6:59 PM						Specified Conditions
Time									
Dry Bulb	62.5 °F	55.9 °F	54.5 °F						
Wet Bulb	54.0 °F	49.7 °F	49.0 °F						
Depression	8.5 °F	6.2 °F	5.5 °F						
Relative Humidity	55.2%	63.1%	66.4%						
Dew Point	46.2 °F	43.5 °F	43.5 °F						
Steel temp	58.0 °F	54.7 °F	52.9 °F						
Difference	11.8 °F	11.1 °F	9.4 °F						
Conditions	SAT	SAT	SAT						

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.6 mils

PRESS-O-FILM™ Made in U.S.A.
sample 2.10.23
reading 3.6
gage less 2.0 mils or 50 µm
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST,STARTED ABRASIVE BLASTING IN ZONE 3 AREA B LEVELS 27,25,23,21.
ABRASIVE BLASTING PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 2/10/2023
QC Supervisor Signature: _____ Date: 2-13-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	OMAR PINERA-TJ GARLAND	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Monday, February 13, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREA B		MOFFETT FIELD CA.94305

Environmental Conditions:

	6:59 AM	10:59 AM	2:59 PM	6:59 PM	Specified Conditions
Time					
Dry Bulb	50.6 °F	58.8 °F	64.8 °F	52.8 °F	
Wet Bulb	47.2 °F	53.7 °F	55.5 °F	46.8 °F	
Depression	3.4 °F	5.1 °F	9.3 °F	6.0 °F	
Relative Humidity	77.1%	71.2%	53.1%	61.8%	
Dew Point	43.7 °F	49.5 °F	47.3 °F	40.0 °F	
Steel temp	48.9 °F	57.6 °F	63.3 °F	50.3 °F	
Difference	5.2 °F	8.1 °F	16.0 °F	10.3 °F	
Conditions	SAT	SAT	SAT	SAT	

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.9 mils

PRESS-O-FILM™ Made in U.S.A.
sample reading 3.9 2.13.23
gage less 2.0 mils or 50 µm
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST ON AIR COMPRESSORS,CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA B,LEVELS 21.23.25 AND 27.
ABRASIVE BLASTING PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 2/13/2023
QC Supervisor Signature: _____ Date: 2-14-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	OMAR PINERA-TJ GARLAND	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Tuesday, February 14, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREA B		MOFFETT FIELD CA.94305

Environmental Conditions:

	6:59 AM	10:59 AM	2:59 PM	6:59 PM	Specified Conditions
Time					
Dry Bulb	40.4 °F	73.3 °F	60.3 °F	47.3 °F	
Wet Bulb	36.7 °F	57.2 °F	49.6 °F	41.2 °F	
Depression	3.7 °F	16.1 °F	10.7 °F	6.1 °F	
Relative Humidity	68.5%	26.0%	38.9%	55.7%	
Dew Point	30.9 °F	36.3 °F	35.2 °F	32.3 °F	
Steel temp	37.8 °F	72.5 °F	58.8 °F	44.8 °F	
Difference	6.9 °F	36.2 °F	23.6 °F	12.5 °F	
Conditions	SAT	SAT	SAT	SAT	

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447475/447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]
Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.8 mils

PRESS-O-FILM™ sample 2.0 mil 2.23 reading 3.8 gage less 2.0 mils or 50 µm
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA Made in U.S.A.

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST ON AIR COMPRESSORS,CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA B,LEVELS 21.23.25 AND 27.
ABRASIVE BLASTING PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 2/14/2023
QC Supervisor Signature: _____ Date: 2-15-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: ISREAL VILLALOBOS-TJ GARLAND
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: Sand blast Zone 3B, levels 27-21

Project: HANGAR 1
Inspector: Ray Blackburn
Date Worked: Tuesday, February 21, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

	1032am	1232pm	232pm						Specified Conditions
Time									
Dry Bulb	65.0 °F	64.2 °F	67.2 °F						35-120 F
Wet Bulb	56.0 °F	54.3 °F	54.4 °F						
Depression	9.0 °F	9.9 °F	12.8 °F						
Relative Humidity	54.7%	49.2%	36.4%						85%
Dew Point	48.3 °F	44.8 °F	39.7 °F						
Steel temp	64.5 °F	63.9 °F	66.7 °F						35-120 F
Difference	16.2 °F	19.1 °F	27.0 °F						+5 F
Conditions	Acceptable	Acceptable	Acceptable						

Environmental Controls? CONTAINMENT AND HEATERS.
Work area illumination value: 20-50 FC Blast lights attached to the nozzle of the blast hoses.
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. Elcometer Model No. G319---T Serial No. RL09165

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]
Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: _____ PSI
Comments: Blow down sand blasted areas after sand blasting.
Abrasive used: Type Garnet Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2.0 mils Actual Profile: 2.0 mils

PRESS-O-FILM™ Made in U.S.A.
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA
sample reading 2/21/23 2.0 gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☑] Results: N/A µg/cm²
Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]
Paint mixed per manufacturer's instructions: YES [☑] NO [☐]
Time Elapsed Since Surface Prep: N/A
Specified Material: ZINC CLAD 4100 Material Applied: ZINC CLAD 4100
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part F Batch #'s: _____ Part C Batch #'s: _____
Thinner R7K104 _____ Thinner R7K104 _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: 2 TO 8 HRS.
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: 4 TO 7 mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. 40 F Max. Storage Temp. 110 F Actual Storage Temperature

INTERMEDIATE ☑ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature

Notes: Continue sand blasting in Zone 3B, levels 27-21. Blow down sand blasted areas after sand blasting.
SURFACE PREP. PERFORMED UNDER A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 2/21/2023
QC Supervisor Signature: _____ Date: 02-28-23
Form No. QC0005 Revision: 2 Rev. Date 23-Sep-22 The results relate only to items inspected/tested
Distribution: 1. Jobsite file 2. Project Manager 3. Client
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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	TJ GARLAND-ISRAEL VILLALOBOS	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Thursday, March 2, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREA B		MOFFETT FIELD CA.94305

Environmental Conditions:

	6:22 AM	10:22 AM	2:22 PM	6:22 PM					Specified Conditions
Time									
Dry Bulb	38.1 °F	86.7 °F	69.5 °F	50.5 °F					35-120 F
Wet Bulb	36.2 °F	65.3 °F	54.6 °F	45.4 °F					
Depression	1.9 °F	21.4 °F	14.9 °F	5.1 °F					
Relative Humidity	83.0%	22.4%	26.0%	66.1%					85%
Dew Point	33.4 °F	43.8 °F	33.1 °F	39.6 °F					
Steel temp	35.6 °F	91.5 °F	69.4 °F	48.1 °F					35-120 F
Difference	5.2 °F	47.6 °F	36.3 °F	8.5 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ **STEEL** ☐ **CONCRETE** ☐ **WOOD** ☐ **OTHER**

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.2 mils

PRESS-O-FILM™ Made in U.S.A.
sample reading 3.2 3-2-23
gage less 2.0 mils or 50 µm
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST AND CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA B FROM LEVEL 21 TO LEVEL 26.
ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 3/1/2023
QC Supervisor Signature: _____ Date: 3-6-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	TJ GARLAND-ISRAEL VILLALOBOS	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Wednesday, March 1, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREA B		MOFFETT FIELD CA.94305

Environmental Conditions:

									Specified Conditions
Time	6:22 AM	10:22 AM	2:22 PM	6:22 PM					
Dry Bulb	46.5 °F	49.5 °F	53.1 °F	54.6 °F					35-120 F
Wet Bulb	43.1 °F	43.9 °F	45.4 °F	46.1 °F					
Depression	3.4 °F	5.6 °F	7.7 °F	8.5 °F					
Relative Humidity	74.9%	61.3%	50.1%	46.2%					85%
Dew Point	39.0 °F	36.8 °F	35.0 °F	34.4 °F					
Steel temp	44.6 °F	47.3 °F	50.9 °F	52.9 °F					35-120 F
Difference	5.5 °F	10.6 °F	15.9 °F	18.5 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.2 mils

PRESS-O-FILM™ sample 3.1.23 3.2 reading gage less 2.0 mils or 50 µm X COARSE Plus (useful range: see data sheet) TESTEX NEWARK, DE 19715 USA Made in U.S.A.

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: BLEW DOWN WATER FROM THE TARP AND SCAFFOLD AND RE-STARTED ABRASIVE BLASTING IN ZONE 3 AREA B,LEVELS 21,22,25,26 AND 27.
ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 3/1/2023
QC Supervisor Signature: _____ Date: 3-6-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3 AREA B

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Monday, March 6, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

Time	6:19 AM	10:19 AM	2:19 PM	6:19 PM					Specified Conditions
Dry Bulb	52.0 °F	66.0 °F	61.1 °F	50.6 °F					35-120 F
Wet Bulb	49.1 °F	58.1 °F	53.1 °F	43.8 °F					
Depression	2.9 °F	7.9 °F	8.0 °F	6.8 °F					
Relative Humidity	81.0%	60.8%	56.6%	68.3%					85%
Dew Point	46.4 °F	52.1 °F	45.5 °F	40.5 °F					
Steel temp	52.9 °F	65.9 °F	59.4 °F	48.1 °F					35-120 F
Difference	6.5 °F	13.8 °F	13.8 °F	7.6 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]
Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.6 F mils

PRESS-O-FILM™ Made in U.S.A.
TESTEX NEWARK, DE 19715 USA
X COARSE Plus (useful range: see data sheet)
sample reading 3.6 3.6 3.6

CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3 AREA B

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Tuesday, March 7, 2023
Address: FORMER NAVAL AIR STATION MOFFETT FIELD CA.94305

Environmental Conditions:

Time	6:19 AM	10:19 AM	2:19 PM	6:19 PM					Specified Conditions
Dry Bulb	68.7 °F	77.6 °F	66.3 °F	50.3 °F					35-120 F
Wet Bulb	58.6 °F	62.5 °F	54.8 °F	44.7 °F					
Depression	10.1 °F	15.1 °F	11.5 °F	5.6 °F					
Relative Humidity	51.9%	38.5%	42.5%	61.6%					85%
Dew Point	50.4 °F	50.3 °F	42.9 °F	37.7 °F					
Steel temp	69.6 °F	76.1 °F	64.5 °F	47.9 °F					35-120 F
Difference	19.2 °F	25.7 °F	21.6 °F	10.3 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER
Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]
Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.6 mils

PRESS-O-FILM™ Made in U.S.A.
sample 3.7.23 3.6
reading 3.6
gage less 2.0 mils or 50 µm
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature _____

Notes: PERFORMED A BLOTTER TEST AND CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA B LEVELS 18,19,20 24 AND 26.
ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 3/7/2023
QC Supervisor Signature: _____ Date: 3-9-23

The results relate only to items inspected/tested
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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3 AREA B

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Wednesday, March 15, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

Time	6:41 AM	10:41 AM	2:41 PM	6:41 PM					Specified Conditions
Dry Bulb	68.0 °F	73.1 °F	72.6 °F	57.7 °F					35-120 F
Wet Bulb	62.2 °F	61.7 °F	60.5 °F	52.1 °F					
Depression	5.8 °F	11.4 °F	12.1 °F	5.6 °F					
Relative Humidity	72.1%	50.0%	46.3%	67.7%					85%
Dew Point	58.6 °F	53.4 °F	50.8 °F	47.1 °F					
Steel temp	67.3 °F	72.9 °F	71.0 °F	55.8 °F					35-120 F
Difference	8.6 °F	19.6 °F	20.1 °F	8.7 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.7 mils

PRESS-O-FILM™ Made in U.S.A.
TESTEX NEWARK, DE 19715 USA
X COARSE Plus (useful range: see data sheet)
sample reading 3.1-3.7 gage less 2.0 mils or 50 µm
3-15-23

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____

Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]

Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST,CONTINUE AND FINISH ABRASIVE BLASTING IN ZONE 3 AREA B LEVELS 18 AND 19 AND RE-BLASTED PRE-MARKED AREAS FOR WIPE SAMPLING IN LEVELS 20,21,24 AND 26. ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 3/15/2023
QC Supervisor Signature: _____ Date: 3-17-23

Distribution: 1. Jobsite file 2. Project Manager 3. Client
The results relate only to items inspected/tested
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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3 AREA A

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Thursday, March 23, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

	6:05 AM	10:05 AM	2:05 PM	6:05 PM					Specified Conditions
Time									
Dry Bulb	53.1 °F	53.8 °F	58.7 °F	59.0 °F					35-120 F
Wet Bulb	48.4 °F	48.8 °F	50.6 °F	50.9 °F					
Depression	4.7 °F	5.0 °F	8.1 °F	8.1 °F					
Relative Humidity	70.4%	68.8%	53.5%	53.9%					85%
Dew Point	43.7 °F	43.8 °F	41.9 °F	42.4 °F					
Steel temp	51.1 °F	51.7 °F	57.6 °F	57.6 °F					35-120 F
Difference	7.4 °F	7.9 °F	15.7 °F	15.2 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.2 mils

PRESS-O-FILM™ Made in U.S.A.
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA
sample 3.2, 3.2, 3.2
reading 3.2
gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____

Specified Material:		Material Applied:	
Part A Batch #'s:		Part A Batch #'s:	
Part B Batch #'s:		Part B Batch #'s:	
Part C Batch #'s:		Part C Batch #'s:	
Thinner Batch #'s:		Thinner Batch #'s:	

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]

Specified Material:		Material Applied:	
Part A Batch #'s:		Part A Batch #'s:	
Part B Batch #'s:		Part B Batch #'s:	
Part C Batch #'s:		Part C Batch #'s:	
Thinner Batch #'s:		Thinner Batch #'s:	

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST,STARTED ABRASIVE BLASTING IN ZONE 3 AREA A AFTER FINISH
BLASTING 3D ON 03/15/23;STARTED IN LEVELS 5,8,11,14 AND 21.
ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 3/23/2023
QC Supervisor Signature: _____ Date: 3-28-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative:	McCARTHY	Project:	HANGAR 1
Certified Supervisor:	TJ GARLAND-ISRAEL VILLALOBOS	Inspector:	JUAN MARTINEZ
Work Location:	MOFFETT FIELD CA.	Date Worked:	Friday, March 24, 2023
Owner:	GOOGLE	Address:	FORMER NAVAL AIR STATION
Task:	ABRASIVE BLASTING IN ZONE 3 AREA A		MOFFETT FIELD CA.94305

Environmental Conditions:

	6:05 AM	10:05 AM	2:05 PM	6:05 PM					Specified Conditions
Time									
Dry Bulb	49.7 °F	51.1 °F	54.6 °F	55.0 °F					35-120 F
Wet Bulb	44.2 °F	44.8 °F	45.8 °F	47.0 °F					
Depression	5.5 °F	6.3 °F	8.8 °F	8.0 °F					
Relative Humidity	62.6%	57.4%	44.0%	50.0%					85%
Dew Point	37.4 °F	36.7 °F	33.2 °F	36.7 °F					
Steel temp	47.9 °F	48.9 °F	53.1 °F	53.4 °F					35-120 F
Difference	10.5 °F	12.3 °F	19.9 °F	16.7 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.5 mils

PRESS-O-FILM™ Made in U.S.A.
TESTEX
NEWARK, DE 19715
USA
X COARSE Plus (useful range: see data sheet)
sample reading 3.5 3.24.23
gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST;SQUARE UP SOME AREAS IN LEVELS 14-11 AND 25 AND BLOW DOWN
ABRASIVE BLASTED AREAS FROM LEVEL 17 TO LEVEL 5.
ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 3/24/2023
QC Supervisor Signature: _____ Date: 6-26-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3 AREA A

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Thursday, March 30, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

	5:11 AM	9:11 AM	1:11 PM	5:11 PM	9:11 PM				Specified Conditions
Time									
Dry Bulb	57.4 °F	56.2 °F	55.9 °F	55.3 °F	54.2 °F				35-120 F
Wet Bulb	52.2 °F	52.4 °F	51.8 °F	50.9 °F	50.0 °F				
Depression	5.2 °F	3.8 °F	4.1 °F	4.4 °F	4.2 °F				
Relative Humidity	69.7%	77.3%	75.1%	73.3%	74.1%				85%
Dew Point	47.6 °F	49.2 °F	48.2 °F	46.9 °F	46.1 °F				
Steel temp	54.9 °F	54.7 °F	54.5 °F	53.9 °F	52.7 °F				35-120 F
Difference	7.3 °F	5.4 °F	6.3 °F	7.0 °F	6.5 °F				+5 F
Conditions	SAT	SAT	SAT	SAT	SAT				

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.6 mils

PRESS-O-FILM™ Made in U.S.A.
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA
sample reading 3.6 gage less 2.0 mils of 50 µm
3.30.23

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST;REMOVED STANDING WATER FROM STRUCTURAL STEEL FOR AN HOUR AND THEN STARTED BLASTING AGAIN IN ZONE 3 AREA A,LEVELS 5,8,11,13,16. ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 3/30/2023
QC Supervisor Signature: _____ Date: 4-5-23

The results relate only to items inspected/tested
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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3 AREA A

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Friday, March 31, 2023
Address: FORMER NAVAL AIR STATION MOFFETT FIELD CA.94305

Environmental Conditions:

Time	6:11 AM	10:11 AM	2:11 PM	6:11 PM					Specified Conditions
Dry Bulb	52.3 °F	78.2 °F	66.4 °F	59.7 °F					35-120 F
Wet Bulb	47.1 °F	61.7 °F	54.2 °F	50.9 °F					
Depression	5.2 °F	16.5 °F	12.2 °F	8.8 °F					
Relative Humidity	66.9%	32.9%	38.8%	50.3%					85%
Dew Point	41.6 °F	46.7 °F	40.6 °F	41.2 °F					
Steel temp	49.9 °F	78.6 °F	65.3 °F	58.6 °F					35-120 F
Difference	8.3 °F	31.9 °F	24.7 °F	17.4 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER
Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]
Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.6 mils

PRESS-O-FILM™ Made in U.S.A.
TESTEX NEWARK, DE 19715 USA
X COARSE Plus (useful range: see data sheet)
sample 3-31-23
reading 3.6
gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST;CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA A,LEVELS 5,7,8,10,12,13
15
ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 3/31/2023
QC Supervisor Signature: _____ Date: 4-5-23

Distribution: 1. Jobsite file 2. Project Manager 3. Client
The results relate only to items inspected/tested
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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3 AREA A

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Saturday, April 1, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

Time	6:11 AM	10:11 AM	2:11 PM	6:11 PM					Specified Conditions
Dry Bulb	53.5 °F	79.3 °F	73.1 °F	63.5 °F					35-120 F
Wet Bulb	46.8 °F	61.7 °F	58.5 °F	54.0 °F					
Depression	6.7 °F	17.6 °F	14.6 °F	9.5 °F					
Relative Humidity	58.0%	29.5%	35.1%	50.8%					85%
Dew Point	39.1 °F	44.8 °F	43.9 °F	44.7 °F					
Steel temp	51.3 °F	80.0 °F	72.3 °F	62.5 °F					35-120 F
Difference	12.2 °F	35.2 °F	28.4 °F	17.8 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.5 mils

PRESS-O-FILM™ Made in U.S.A.
TESTEX
NEWARK, DE 19715 USA
X COARSE Plus (useful range: see data sheet)
sample 4.1.23
reading 3.5
gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST;CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA A,LEVELS 2,5,7,10,12,15.
ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 4/1/2023
QC Supervisor Signature: _____ Date: 4-5-23

Distribution: 1. Jobsite file 2. Project Manager 3. Client
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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3 AREA A

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Monday, April 3, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

Time	6:11 AM	10:11 AM	2:11 PM	6:11 PM					Specified Conditions
Dry Bulb	51.3 °F	80.2 °F	64.5 °F	55.5 °F					35-120 F
Wet Bulb	43.7 °F	61.2 °F	51.6 °F	46.1 °F					
Depression	7.6 °F	19.0 °F	12.9 °F	9.4 °F					
Relative Humidity	48.4%	22.1%	30.3%	40.8%					85%
Dew Point	32.5 °F	38.0 °F	32.6 °F	32.1 °F					
Steel temp	46.1 °F	78.8 °F	63.1 °F	54.3 °F					35-120 F
Difference	13.6 °F	40.8 °F	30.5 °F	22.2 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER
Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]
Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.7 mils

PRESS-O-FILM™ Made in U.S.A.
sample reading 3.7 gage less 2.0 mils or 50 µm
4.3.23
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST;BLOWING DOWN AND CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA A LEVELS 2,4,5,7,9,10,12 AND 15.
ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 4/3/2023
QC Supervisor Signature: _____ Date: 4-5-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: BLOW DOWN/ABRASIVE BLASTING IN ZONE 3A

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Tuesday, April 4, 2023
Address: FORMER NAVAL AIR STATION MOFFETT FIELD CA.94305

Environmental Conditions:

	6:11 AM	10:11 AM	2:11 PM	6:11 PM					Specified Conditions
Time									
Dry Bulb	47.2 °F	79.6 °F	63.2 °F	58.9 °F					35-120 F
Wet Bulb	41.8 °F	61.0 °F	50.4 °F	48.2 °F					
Depression	5.4 °F	18.6 °F	12.8 °F	10.7 °F					
Relative Humidity	61.2%	24.3%	26.7%	36.4%					85%
Dew Point	34.5 °F	39.9 °F	28.4 °F	32.3 °F					
Steel temp	45.5 °F	77.2 °F	61.9 °F	57.6 °F					35-120 F
Difference	11.0 °F	37.3 °F	33.5 °F	25.3 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

	SP 1	SP 2	SP 3	SP 5	SP 6	SP 7	SP 10	SP 11
Specified Cleaning:	[☐]	[☐]	[☐]	[☐]	[☑]	[☐]	[☐]	[☐]
Actual Cleaning:	[☐]	[☐]	[☐]	[☐]	[☐]	[☐]	[☑]	[☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.6 mils

PRESS-O-FILM™ Made in U.S.A.
sample 3.4.23
reading 3.6
gage less 2.0 mils or 50 µm
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature

INTERMEDIATE ☐ **FINISH** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: _____ Material Applied: _____
Part A Batch #'s: _____ Part A Batch #'s: _____
Part B Batch #'s: _____ Part B Batch #'s: _____
Part C Batch #'s: _____ Part C Batch #'s: _____
Thinner Batch #'s: _____ Thinner Batch #'s: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. _____ Max. Storage Temp. _____ Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST;SWEEP BLAST LEVELS 5,7,8,10,11,12,13,15 AND 16 AND THEN STARTED BLOWING DOWN SPENT GRIT FROM ZONE 3 AREA A. ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 4/4/2023
QC Supervisor Signature: _____ Date: 4-5-23

The results relate only to items inspected/tested
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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3A

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Monday, April 10, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

Time	6:11 AM	10:11 AM	2:11 PM	6:11 PM					Specified Conditions
Dry Bulb	54.3 °F	94.1 °F	80.3 °F	67.7 °F					35-120 F
Wet Bulb	49.8 °F	71.1 °F	62.9 °F	58.5 °F					
Depression	4.5 °F	23.0 °F	17.4 °F	9.2 °F					
Relative Humidity	72.1%	27.4%	31.7%	56.0%					85%
Dew Point	45.5 °F	55.4 °F	47.6 °F	51.4 °F					
Steel temp	52.7 °F	97.3 °F	79.6 °F	66.9 °F					35-120 F
Difference	7.1 °F	41.9 °F	32.0 °F	15.5 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]
Specified Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☑] SP 7 [☐] SP 10 [☐] SP 11 [☐]
Actual Cleaning: SP 1 [☐] SP 2 [☐] SP 3 [☐] SP 5 [☐] SP 6 [☐] SP 7 [☐] SP 10 [☑] SP 11 [☐]
Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.7 mils

PRESS-O-FILM™ Made in U.S.A.
X COARSE Plus (useful range: see data sheet)
TESTEX NEWARK, DE 19715 USA
sample 4-10-23
reading 3.7
gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep:
Specified Material: Material Applied:
Part A Batch #'s: Part A Batch #'s:
Part B Batch #'s: Part B Batch #'s:
Part C Batch #'s: Part C Batch #'s:
Thinner Batch #'s: Thinner Batch #'s:
Mix Time: Start Application: Time Complete: Pot Life:
Mix Time: Start Application: Time Complete: Pot Life:
Mix Time: Start Application: Time Complete: Pot Life:
Material Temp: Typical Wet Film Readings: mils
Qty. Mixed: Qty. Applied: Approximate SF:
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Specified Material: Material Applied:
Part A Batch #'s: Part A Batch #'s:
Part B Batch #'s: Part B Batch #'s:
Part C Batch #'s: Part C Batch #'s:
Thinner Batch #'s: Thinner Batch #'s:
Mix Time: Start Application: Time Complete: Pot Life:
Mix Time: Start Application: Time Complete: Pot Life:
Mix Time: Start Application: Time Complete: Pot Life:
Material Temp: Typical Wet Film Readings: mils
Qty. Mixed: Qty. Applied: Approximate SF:
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST;CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA A,LEVELS 9,6,4,3 AND 2
ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: Date: 4/10/2023
QC Supervisor Signature: Date: 4-18-23

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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING IN ZONE 3A

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Tuesday, April 11, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

	6:11 AM	10:11 AM	2:11 PM	6:11 PM					Specified Conditions
Time									
Dry Bulb	57.5 °F	63.9 °F	71.7 °F	64.5 °F					35-120 F
Wet Bulb	53.3 °F	57.0 °F	59.7 °F	52.5 °F					
Depression	4.2 °F	6.9 °F	12.0 °F	12.0 °F					
Relative Humidity	75.8%	64.6%	46.1%	36.9%					85%
Dew Point	49.9 °F	51.8 °F	49.9 °F	37.6 °F					
Steel temp	56.0 °F	63.5 °F	71.4 °F	63.5 °F					35-120 F
Difference	6.1 °F	11.8 °F	21.5 °F	25.9 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.6 mils

PRESS-O-FILM™ Made in U.S.A.
TESTEX NEWARK, DE 19715 USA
X COARSE Plus (useful range: see data sheet)
sample 4-11-23
reading 3.6
gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: ____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: ____

Specified Material: ____ Material Applied: ____
Part A Batch #'s: ____ Part A Batch #'s: ____
Part B Batch #'s: ____ Part B Batch #'s: ____
Part C Batch #'s: ____ Part C Batch #'s: ____
Thinner Batch #'s: ____ Thinner Batch #'s: ____

Mix Time: ____ Start Application: ____ Time Complete: ____ Pot Life: ____
Mix Time: ____ Start Application: ____ Time Complete: ____ Pot Life: ____
Mix Time: ____ Start Application: ____ Time Complete: ____ Pot Life: ____
Material Temp: ____ Typical Wet Film Readings: ____ mils
Qty. Mixed: ____ Qty. Applied: ____ Approximate SF: ____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: ____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]

Specified Material: ____ Material Applied: ____
Part A Batch #'s: ____ Part A Batch #'s: ____
Part B Batch #'s: ____ Part B Batch #'s: ____
Part C Batch #'s: ____ Part C Batch #'s: ____
Thinner Batch #'s: ____ Thinner Batch #'s: ____

Mix Time: ____ Start Application: ____ Time Complete: ____ Pot Life: ____
Mix Time: ____ Start Application: ____ Time Complete: ____ Pot Life: ____
Mix Time: ____ Start Application: ____ Time Complete: ____ Pot Life: ____
Material Temp: ____ Typical Wet Film Readings: ____ mils
Qty. Mixed: ____ Qty. Applied: ____ Approximate SF: ____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST;CONTINUE ABRASIVE BLASTING IN ZONE 3 AREA A,LEVELS 9,6,4,3 AND 2
ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: ____ Date: 4/11/2023
QC Supervisor Signature: ____ Date: 4-18-23

The results relate only to items inspected/tested
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CERTIFIED COATINGS COMPANY/MUEHLHAN CERTIFIED COATINGS, INC.
2320 CORDELIA ROAD, FAIRFIELD, CA 94534
QUALITY CONTROL - DAILY REPORT

Client Representative: McCARTHY
Certified Supervisor: TJ GARLAND-ISRAEL VILLALOBOS
Work Location: MOFFETT FIELD CA.
Owner: GOOGLE
Task: ABRASIVE BLASTING/BLOWING DOWN IN ZONE 3A

Project: HANGAR 1
Inspector: JUAN MARTINEZ
Date Worked: Wednesday, April 12, 2023
Address: FORMER NAVAL AIR STATION
MOFFETT FIELD CA.94305

Environmental Conditions:

	6:11 AM	10:11 AM	2:11 PM	6:11 PM					Specified Conditions
Time									
Dry Bulb	45.9 °F	85.3 °F	69.2 °F	60.4 °F					35-120 F
Wet Bulb	41.5 °F	64.4 °F	55.1 °F	49.7 °F					
Depression	4.4 °F	20.9 °F	14.1 °F	10.7 °F					
Relative Humidity	67.7%	22.7%	31.5%	39.4%					85%
Dew Point	35.8 °F	43.0 °F	37.7 °F	35.6 °F					
Steel temp	43.6 °F	88.0 °F	68.4 °F	59.2 °F					35-120 F
Difference	7.8 °F	45.0 °F	30.7 °F	23.6 °F					+5 F
Conditions	SAT	SAT	SAT	SAT					

Environmental Controls? CONTAINMENT,DEHUMIDIFIERS AND HEATERS.
Work area illumination value: >50 FC
Recommended Minimum Lighting: General - 10 FC, Task Specific - 20 FC, Inspection - 50 FC
QC Instrument Info. POSITECTOR Model No. DPM Serial No. 447113

SURFACE PREPARATION

☑ STEEL ☐ CONCRETE ☐ WOOD ☐ OTHER

Satisfactory Pre-cleaning Completed: YES [☑] NO [☐]

Specified Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☑]	SP 7 [☐]	SP 10 [☐]	SP 11 [☐]
Actual Cleaning:	SP 1 [☐]	SP 2 [☐]	SP 3 [☐]	SP 5 [☐]	SP 6 [☐]	SP 7 [☐]	SP 10 [☑]	SP 11 [☐]

Pressure Washing: N/A PSI
Comments: N/A
Abrasive used: Type GARNET Compressed Air Tested? YES [☑] NO [☐]
Size GX2 (attach pictures of blotter - note date & time)
Blasting performed by evaluated/approved blasters: YES [☑] NO [☐]
Abrasive cleanliness inspected and acceptable: YES [☑] NO [☐]
Vial test performed on this batch of abrasive? YES [☑] NO [☐]
Profile specified: 2 mils Actual Profile: 3.6 mils

PRESS-O-FILM™ Made in U.S.A.
TESTEX NEWARK, DE 19715 USA
X COARSE Plus (useful range: see data sheet)
sample 4-12-23
reading 3.6
gage less 2.0 mils or 50 µm

PRIMER

Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]
Time Elapsed Since Surface Prep: _____

Specified Material:		Material Applied:	
Part A Batch #'s:		Part A Batch #'s:	
Part B Batch #'s:		Part B Batch #'s:	
Part C Batch #'s:		Part C Batch #'s:	
Thinner Batch #'s:		Thinner Batch #'s:	

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

INTERMEDIATE ☐ ***FINISH*** ☐

Satisfactory Intercoat-cleaning Completed: YES [☐] NO [☐]
Soluble Salt Test Performed: YES [☐] NO [☐] Results: _____ µg/cm²
Satisfactory Pre-cleaning Completed: YES [☐] NO [☐]
Paint mixed per manufacturer's instructions: YES [☐] NO [☐]

Specified Material:		Material Applied:	
Part A Batch #'s:		Part A Batch #'s:	
Part B Batch #'s:		Part B Batch #'s:	
Part C Batch #'s:		Part C Batch #'s:	
Thinner Batch #'s:		Thinner Batch #'s:	

Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Mix Time: _____ Start Application: _____ Time Complete: _____ Pot Life: _____
Material Temp: _____ Typical Wet Film Readings: _____ mils
Qty. Mixed: _____ Qty. Applied: _____ Approximate SF: _____
Min. Storage Temp. Max. Storage Temp. Actual Storage Temperature

Notes: PERFORMED A BLOTTER TEST;CONTINUE AND FINISH ABRASIVE BLASTING IN ZONE 3 AREA A,LEVELS GROUND,1,2,3 AND 4,CONTINUE BLOWING DOWN SPENT GRIT FROM GROUND LEVEL TO 17. ABRASIVE BLASTING PERFORMED INSIDE A CONTAINMENT.

The undersigned certifies that the above information is true and accurate to the best of my knowledge
QC Inspector Signature: _____ Date: 4/12/2023
QC Supervisor Signature: _____ Date: 4-18-23

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Attachment 2

Tabulated PCB and Lead Confirmation Wipe Sampling Analytical Results

Validated Confirmation Wipe Sampling Results - Low Occupancy Area within Zone 3

Hangar 1 NTCRA
Former Naval Air Station Moffett Field, California

			Lead	PCBs								
			Result	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Location ID [a]	Sample Date	Enclosure	µg/ft^2	Concentration - µg/100 cm^2								
Cleanup Goal (Low Occupancy Zone)			<250	≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100
ARCH-C5W-EXT-1 TO 2-221209-WF	12/9/2022	C/D	11	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-LA	12/9/2022	C/D	4.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-LA	12/9/2022	C/D	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-INT-4.5 TO 5.5-221209-WF	12/9/2022	C/D	6.8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-LA	12/9/2022	C/D	9.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4W-INT-2.5 TO 3.5-221221-WF	12/21/2022	C/D	160	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-INT-2.5 TO 3.5-221221-WF	12/21/2022	C/D	96	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4W-DG-3 TO 3.5-221221-FB [b]	12/21/2022	C/D	27	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4W-DG-3 TO 3.5-221221-DUP-FB	12/21/2022	C/D	38	--	--	--	--	--	--	--	--	--
ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-LA	12/21/2022	C/D	93	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-DUP-LA	12/21/2022	C/D	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-DG-4 TO 4.5-221221-FB [b]	12/21/2022	C/D	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-DG-4 TO 4.5-221221-DUP-FB	12/21/2022	C/D	77	--	--	--	--	--	--	--	--	--
ARCH-C4W-EXT-4 TO 5-221221-WF	12/21/2022	C/D	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-PS-4.5-221221-G	12/21/2022	C/D	100	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49
ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-LA	12/21/2022	C/D	170	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-LA	12/21/2022	C/D	35	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-LA	12/21/2022	C/D	58	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-INT-4.5 TO 5.5-221221-WF	12/21/2022	C/D	210	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4W-PS-5.5-221221-G	12/21/2022	C/D	96	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-PS-5.5-221221-G	12/21/2022	C/D	84	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-LA	12/21/2022	C/D	580	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-PS-6-221221-G	12/21/2022	C/D	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-5.5 TO 6-UP-C3.3-HS-221221-LA	12/21/2022	C/D	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-DG-5.5 TO 6-221221-FB	12/21/2022	C/D	48	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-DG-6 TO 6.5-221221-FB	12/21/2022	C/D	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-LA	12/21/2022	C/D	200	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-EXT-6 TO 7-221221-WF	12/21/2022	C/D	270	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-PS-6.5-221221-G	12/21/2022	C/D	93	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-PS-6.5-221221-DUP-G	12/21/2022	C/D	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-PS-6.5-221221-G	12/21/2022	C/D	77	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-LA	12/21/2022	C/D	92	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-LA	12/21/2022	C/D	64	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-EXT-8 TO 9-221221-WF	12/21/2022	C/D	750	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-LA	12/21/2022	C/D	56	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-DUP-LA	12/21/2022	C/D	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-2 TO 2.5-221221-FB [b]	12/21/2022	C/D	51	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-2 TO 2.5-221221-DUP-FB	12/21/2022	C/D	55	--	--	--	--	--	--	--	--	--
ARCH-C4W-DG-2 TO 2.5-221221-FB	12/21/2022	C/D	45	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4W-DG-2 TO 2.5-221221-DUP-FB [b]	12/21/2022	C/D	33	--	--	--	--	--	--	--	--	--
ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-LA	12/21/2022	C/D	220	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-DUP-LA	12/21/2022	C/D	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-LA	12/21/2022	C/D	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4W-DG-7 TO 7.5-230126-FB	1/26/2023	C/D	48	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-EXT-7 TO 8-230126-WF	1/26/2023	C/D	150	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-LA	1/26/2023	C/D	90	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5W-DG-8 TO 9-UP-C5.7-VS-230126-LA	1/26/2023	C/D	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-LA	1/26/2023	C/D	160	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46

Validated Confirmation Wipe Sampling Results - Low Occupancy Area within Zone 3

Hangar 1 NTCRA
Former Naval Air Station Moffett Field, California

			Lead	PCBs								
			Result	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Location ID [a]	Sample Date	Enclosure	µg/ft^2	Concentration - µg/100 cm^2								
Cleanup Goal (Low Occupancy Zone)			<250	≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100	≤100
ARCH-C5E-DG-3 TO 3.5-230216-FB	2/16/2023	A/B	170	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-LA [c]	2/16/2023	~~A/B~~	~~900~~	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230316-LA	3/16/2023	A/B	11	--	--	--	--	--	--	--	--	--
ARCH-C5E-EXT-1 TO 2-230216-WF	2/16/2023	A/B	190	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-EXT-1 TO 2-230216-DUP-WF [b]	2/16/2023	A/B	150	--	--	--	--	--	--	--	--	--
ARCH-C3E-EXT-1 TO 2-230216-WF	2/16/2023	A/B	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-EXT-1 TO 2-230216-DUP-WF	2/16/2023	A/B	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4E-DG-2 TO 2.5-230216-FB	2/16/2023	A/B	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-LA	2/16/2023	A/B	310	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-LA	2/16/2023	A/B	230	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-DUP-LA	2/16/2023	A/B	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4E-INT-2.5 TO 3.5-230216-WF	2/16/2023	A/B	330	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4E-INT-2.5 TO 3.5-230216-DUP-WF [b]	2/16/2023	A/B	290	--	--	--	--	--	--	--	--	--
ARCH-C4E-EXT-2 TO 3-230316-WF	3/16/2023	A/B	28	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-LA	3/16/2023	A/B	24	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4E-PS-3.5-230316-G	3/16/2023	A/B	19	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-PS-3.5-230316-G	3/16/2023	A/B	26	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-DG-4 TO 4.5-UP-C3.4-VS-230316-LA	3/16/2023	A/B	21	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-DG-4 TO 4.5-230316-FB	3/16/2023	A/B	48	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-INT-3.5 TO 4.5-230316-WF	3/16/2023	A/B	170	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-INT-3.5 TO 4.5-230316-DUP-WF	3/16/2023	A/B	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-LA	3/16/2023	A/B	72	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-EXT-4 TO 5-230316-WF	3/16/2023	A/B	170	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-LA	3/16/2023	A/B	120	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-PS-4.5-230316-G	3/16/2023	A/B	110	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-PS-4.5-230316-G	3/16/2023	A/B	59	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4E-DG-4.5 TO 5-230316-FB [b]	3/16/2023	A/B	34	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4E-DG-4.5 TO 5-230316-DUP-FB	3/16/2023	A/B	42	--	--	--	--	--	--	--	--	--
ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-LA	3/16/2023	A/B	100	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-LA	3/16/2023	A/B	14	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-LA	3/16/2023	A/B	19	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-LA	3/16/2023	A/B	6.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-DG-2.5 TO 3-230316-FB	3/16/2023	A/B	8	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-LA	4/14/2023	A/B	35	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4E-PS-5.5-230414-G	4/14/2023	A/B	12	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-PS-5.5-230414-G	4/14/2023	A/B	16	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-LA	4/14/2023	A/B	56	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-DG-6 TO 6.5-230414-FB	4/14/2023	A/B	8.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-LA	4/14/2023	A/B	25	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-LA	4/14/2023	A/B	15	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C5E-PS-6.5-230414-G	4/14/2023	A/B	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-PS-6.5-230414-G	4/14/2023	A/B	69	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-LA	4/14/2023	A/B	140	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-DUP-LA	4/14/2023	A/B	--	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C4E-DG-7 TO 7.5-230414-FB	4/14/2023	A/B	74	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Validated Confirmation Wipe Sampling Results - Low Occupancy Area within Zone 3

Hangar 1 NTCRA
Former Naval Air Station Moffett Field, California

			Lead	PCBs								
			Result	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Location ID [a]	**Sample Date**	**Enclosure**	**µg/ft²**	**Concentration - µg/100 cm²**								
Cleanup Goal (Low Occupancy Zone)			**<250**	**≤100**	**≤100**	**≤100**	**≤100**	**≤100**	**≤100**	**≤100**	**≤100**	**≤100**
ARCH-C3E-EXT-7 TO 8-230414-WF	4/14/2023	A/B	**220**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-EXT-7 TO 8-230414-DUP-WF [b]	4/14/2023	A/B	**210**	--	--	--	--	--	--	--	--	--
ARCH-C5E-EXT-8 TO 9-230414-WF	4/14/2023	A/B	**74**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230414-LA	4/14/2023	A/B	**150**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
95-Percent UCL (Low Occupancy) [d]			**124.4**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
221221-MEDBLANK1 [e]	12/21/2022	C/D	**5.1**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
221221-MEDBLANK2 [e]	12/21/2022	C/D	**2.8**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
230216-MEDBLANK1 [e]	2/16/2023	A/B	**0.91**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
230316-MEDBLANK2 [e]	3/16/2023	A/B	**0.64**	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50

Acronyms and Abbreviations:

NTCRA: Non-Time-Critical Removal Action
PCBs: polychlorinated biphenyls
µg/100 cm^2: micrograms per 100 square centimeters
µg/ft^2: micrograms per square foot
UCL: Upper Confidence Limit
UFP-QAPP: Uniform Federal Policy Quality Assurance Project Plan
U.S. EPA: United States Environmental Protection Agency
--: Not analyzed/not applicable

Notes:

The 95-percent UCL was calculated using Version 5.2 of ProUCL program published by the U.S. EPA. The highest of the recommended UCL is presented in this table. The 95-percent UCL output file is presented in Attachment 4.
[a] Location ID corresponds to the Field ID in the Laboratory Analytical Reports.
[b] The lower result of each duplicate sample pair collected was not included in the calculation of the 95-percent UCL. If the values were equivalent the duplicate result was not included in the calculation of the 95-percent UCL.
[c] The indicated location was re-abated and re-sampled. The original confirmation sampling result and locations that were re-abated and re-sampled was not included in the calculation of the 95-percent UCL.
[d] 95-percent UCL for PCBs is the maximum of the analytical reporting limits for each Aroclor as the 95-percent UCL could not be calculated because PCBs were not detected in any of the PCB samples.
[e] Media Blank samples are referred to as field blank samples in the Zone 3 Low Occupancy Data Summary Submittal Report because they were collected within the enclosure and more accurately represent ambient enclosure conditions during sampling rather than impacts to the sampling media itself.
Bolded values indicate constituents detected above laboratory reporting limits.
Shaded values indicate constituents reported at concentrations above the Cleanup Goal.
~~Strikethrough~~ text represents sample locations that were re-abated and subsequently re-sampled. Only the final confirmation sample results were used in the calculation of the 95-percent UCL of the mean concentration.

Attachment 3

Confirmation Sampling Analytical Reports

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

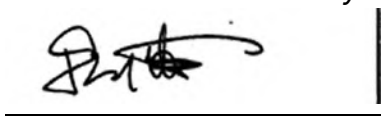
Lab Job Number:	479660
Report Level:	II
Report Date:	02/24/2023

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	479660
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	02/16/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C5E-DG-3 TO 3.5-230216-P-FB	479660-001	02/16/23 09:05	Wipe
ARCH-C5E-DG-3 TO 3.5-230216-L-FB	479660-002	02/16/23 09:05	Wipe
ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-P-LA	479660-003	02/16/23 09:35	Wipe
ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-L-LA	479660-004	02/16/23 09:35	Wipe
230216-P-MEDBLANK1	479660-005	02/16/23 07:46	Wipe
230216-L-MEDBLANK1	479660-006	02/16/23 07:46	Wipe

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 479660 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 02/16/23

This data package contains sample and QC results for six wipe samples, requested for the above referenced project on 02/17/23. The samples were received cold and intact.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B):

- An interference check standard recovered slightly low for lead in the presence of high concentrations of aluminum. As it relates to these samples, the bias is insignificant; results are flagged "b", but there is no effect on the data quality.
- No analytical problems were encountered.

479660

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
1	ARCH-C5E-DG-3 TO 3.5-230216-P- FB	2/16/2023	0905	WP	1	--	X			**Confirmation Wipe Samples - Level II Report/Stage 2A Validation** Report PCB concentrations on a µg/100cm2 basis Report lead concentrations on a µg/ft2 basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)
2	ARCH-C5E-DG-3 TO 3.5-230216-L- FB	2/16/2023	0905	WP	1	--		X		
3	ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-P- LA	2/16/2023	0935	WP		--	X			
4	ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-L- LA	2/16/2023	0935	WP	1	--		X		
5	~~ARCH-C5E-DG-4 TO 4.5-230216-P-~~	~~2/16/2023~~		WP	1	--	X			MK
6	~~ARCH-C5E-DG-4 TO 4.5-230216-L-~~	~~2/16/2023~~		WP	1	--		X		MK
7	230216-P-MEDBLANK1	2/16/2023	0746	WP	1	--	X			Collected in the Low Occupancy Zone of Hangar 1
8	230216-L-MEDBLANK1	2/16/2023	0746	WP	1	--		X		Collected in the Low Occupancy Zone of Hangar 1
9										
10										
11										
12										
13										
14										
15										

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	TS	Tyler Sinnott	Rincon/Envi. Scientist	2/16/23 1246
1 Received By:		Miguel Contreras	ET	2/16/23 1246
2 Relinquished By:		JJP	Enthalpy	2.16.23 13:02
2 Received By:		pppdwn		2/17/23 0910
3 Relinquished By:				
3 Received By:				

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 479660 Client: Rincon

Date Received: 2/16/23 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 2/16/23 By (print) MM (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: No custody seal found on cooler.

Date Logged in 2/16/23 **By (print)** MM **(sign)** _____

Date Labeled 2.16.23 **By (print)** JJP **(sign)** _____

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 02/17/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 3.8 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 1.5 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 2/17/23

SOUTHWEST AIRLINES

Printed on:
16 FEB 18:33

526 OAK 8463 8190

SNA

PC# 4 OF 4 | DG G | LOT WT 160 LB (72.5 KG)

OAK WN 1738 16 FEB 19:25

STN FLT DATE ETD LOT 01

PC ID: 0004
PC WT: 40LB

526 84638190 0004

S

1.5 / 3.8

Enthalpy Analytical - Orange Analytical Report

Lab #: 479660 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-3 TO 3.5-230216-P-FB **Batch#:** 307899 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 8082

Lab ID: 479660-001 **Received:** 02/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 02/17/23

Diln Fac: 1.000 **Analyzed:** 02/17/23

479660-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479660-001 Surrogate	%REC	Limits
TCMX (PCB)	66	19-121
Decachlorobiphenyl (PCB)	57	19-121

Field ID: ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-P-LA **Batch#:** 307899 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 8082

Lab ID: 479660-003 **Received:** 02/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 02/17/23

Diln Fac: 1.000 **Analyzed:** 02/17/23

479660-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479660-003 Surrogate	%REC	Limits
TCMX (PCB)	53	19-121
Decachlorobiphenyl (PCB)	48	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479660 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: 230216-P-MEDBLANK1 **Batch#:** 307899 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 8082

Lab ID: 479660-005 **Received:** 02/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 02/17/23

Dil n Fac: 1.000 **Analyzed:** 02/17/23

479660-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479660-005 Surrogate	%REC	Limits
TCMX (PCB)	67	19-121
Decachlorobiphenyl (PCB)	58	19-121

Type: BLANK **Batch#:** 307899 **Analysis:** EPA 8082

Lab ID: QC1046509 **Prepared:** 02/17/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 02/17/23

Dil n Fac: 1.000 **Prep:** EPA 3546

QC1046509 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1046509 Surrogate	%REC	Limits
TCMX (PCB)	61	19-121
Decachlorobiphenyl (PCB)	55	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 479660 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 307899 **Analysis:** EPA 8082

Lab ID: QC1046510 **Prepared:** 02/17/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 02/17/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1046510 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.089	62	60-140	ug/100 cm2
Aroclor-1260	5.000	3.389	68	60-140	ug/100 cm2

QC1046510 Surrogate	%REC	Limits
TCMX (PCB)	66	19-121
Decachlorobiphenyl (PCB)	61	19-121

Type: BSD **Batch#:** 307899 **Analysis:** EPA 8082

Lab ID: QC1046511 **Prepared:** 02/17/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 02/17/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1046511 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.405	68	60-140	ug/100 cm2	10	20
Aroclor-1260	5.000	3.552	71	60-140	ug/100 cm2	5	20

QC1046511 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	63	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 479660 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-3 TO 3.5-230216-L-FB **Batch#:** 307903 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 6010B
Lab ID: 479660-002 **Received:** 02/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/17/23
Dil n Fac: 1.000 **Analyzed:** 02/18/23

479660-002 Analyte	Result	RL	Units	Qual
Lead	**170**	0.25	ug/ft2	b

Field ID: ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-L-LA **Batch#:** 307903 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 6010B
Lab ID: 479660-004 **Received:** 02/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/17/23
Dil n Fac: 10.00 **Analyzed:** 02/20/23

479660-004 Analyte	Result	RL	Units
Lead	**900**	2.5	ug/ft2

Field ID: 230216-L-MEDBLANK1 **Batch#:** 307903 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 6010B
Lab ID: 479660-006 **Received:** 02/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/17/23
Dil n Fac: 1.000 **Analyzed:** 02/18/23

479660-006 Analyte	Result	RL	Units	Qual
Lead	**0.91**	0.25	ug/ft2	b

Type: BLANK **Batch#:** 307903 **Analysis:** EPA 6010B
Lab ID: QC1046520 **Prepared:** 02/17/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 02/18/23
Dil n Fac: 1.000 **Prep:** EPA 3050B

QC1046520 Analyte	Result	RL	Units	Qual
Lead	ND	0.25	ug/ft2	b

Legend
ND: Not Detected
RL: Reporting Limit
b: See narrative

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 479660 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 307903 **Analysis:** EPA 6010B

Lab ID: QC1046521 **Prepared:** 02/17/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 02/18/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1046521 Analyte	Spiked	Result	%REC	Limits	Units	Qual
Lead	100.0	106.3	106	80-120	ug/ft2	b

Type: BSD **Batch#:** 307903 **Analysis:** EPA 6010B

Lab ID: QC1046522 **Prepared:** 02/17/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 02/18/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1046522 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
Lead	100.0	103.5	104	80-120	ug/ft2	3	20	b

Legend

RPD: Relative Percent Difference

b: See narrative

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number:	479661
Report Level:	IV
Report Date:	02/24/2023

PCBs

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:

John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	479661
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	02/16/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C5E-EXT-1 TO 2-230216-P-WF	479661-001	02/16/23 08:04	Wipe
ARCH-C3E-EXT-1 TO 2-230216-P-WF	479661-004	02/16/23 07:50	Wipe
ARCH-C3E-EXT-1 TO 2-230216-P-DUP-WF	479661-005	02/16/23 07:50	Wipe
ARCH-C4E-DG-2 TO 2.5-230216-P-FB	479661-007	02/16/23 08:40	Wipe
ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-P-LA	479661-009	02/16/23 08:25	Wipe
ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-LA	479661-011	02/16/23 09:15	Wipe
ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-DUP-LA	479661-012	02/16/23 09:15	Wipe
ARCH-C4E-INT-2.5 TO 3.5-230216-P-WF	479661-014	02/16/23 08:50	Wipe

Case Narrative

PCBS (EPA 8082)

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 479661 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 02/16/23

This data package contains sample and QC results for eight wipe samples, requested for the above referenced project on 02/17/23. See attached cooler receipt form for any sample receipt problems or discrepancies.

PCBs (EPA 8082):

No analytical problems were encountered.

Chain of Custody

479661

ENTHALPY ANALYTICAL

Chain of Custody Record — GOC ID:

Page: 1 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (PB)	custom TAT:	

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level IV

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Smnott

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 3546/8082	Lead by EPA Method 3050M/6010B	HOLD	Test Instructions / Comments
1	ARCH-C5E-EXT-1 TO 2-230216-P- WF	2/16/2023	0804	WP	1	--	X			**Confirmation Wipe Samples - Level IV Report/Stage 3 Validation**
2	ARCH-C5E-EXT-1 TO 2-230216-L- WF	2/16/2023	0804	WP	1	--		X		Report PCB concentrations on a µg/100cm2 basis
3	ARCH-C5E-EXT-1 TO 2-230216-L-DUP- WF	2/16/2023	0804	WP	1	--		X		Report lead concentrations on a µg/ft2 basis
4	ARCH-C3E-EXT-1 TO 2-230216-P- WF	2/16/2023	0750	WP	1	--	X			Report Aroclor 1268 concentrations in addition to the standard Aroclors
5	ARCH-C3E-EXT-1 TO 2-230216-P-DUP- WF	2/16/2023	0750	WP	1	--	X			Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)
6	ARCH-C3E-EXT-1 TO 2-230216-L- WF	2/16/2023	0750	WP	1	--		X		
7	ARCH-C4E-DG-2 TO 2.5-230216-P- FB	2/16/2023	0840	WP	1	--	X			
8	ARCH-C4E-DG-2 TO 2.5-230216-L- FB	2/16/2023	0840	WP	1	--		X		
9	ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-P- LA	2/16/2023	0825	WP	1	--	X			
10	ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-L- LA	2/16/2023	0825	WP	1	--		X		2x Rivet Type 2 = 0.0200 ft2
11	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P- LA	2/16/2023	0915	WP	1	--	X			
12	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-DUP- LA	2/16/2023	0915	WP	1	--	X			
13	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-L- LA	2/16/2023	0915	WP	1	--		X		2x Rivet Type 2 = 0.0200 ft
14	ARCH-C4E-INT-2.5 TO 3.5-230216-P- WF	2/16/2023	0850	WP	1	--	X			
15	ARCH-C4E-INT-2.5 TO 3.5-230216-L- WF	2/16/2023	0850	WP	1	--		X		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	TSmott	Tyler Smott	Rincon / Envi. Scientist	2/16/23 / 1246
[1] Received By:		Miguel Gamboa	EA	2/16/23 1246
[2] Relinquished By:		JJP	Enthalpy	2.16.23 13:53
[2] Received By:		FPOWS	EA	2/17/23 0810
[3] Relinquished By:				
[3] Received By:				

479661

ENTHALPY ANALYTICAL

Chain of Custody Record COC ID:

Page: 2 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (PB)	custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level IV

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 3546/8082	Lead by EPA Method 3050M/6010B	HOLD	Test Instructions / Comments
16	ARCH-C4E-INT-2.5 TO 3.5-230216-L-DUP- WF	2/16/2023	0850	WP	1	--		X		
17										
18										
19										
20										
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

Test Instructions / Comments

Confirmation Wipe Samples - Level IV Report/Stage 3 Validation

Report PCB concentrations on a µg/100cm2 basis

Report lead concentrations on a µg/ft2 basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	TR Smith	Tyler Sinnott	Rincon / Envi. Scientist	2/16/23 / 1246
[1] Received By:		Missey Bouton	Ent	2/16/23 1246
[2] Relinquished By:		JJP	Enthalpy	2.16.23 13:53
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 479661 Client: Rincon

Date Received: 2/16/23 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 2/16/23 By (print) MM (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☑ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? By Date:			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: No custody seal found on cooler.

Date Logged in 2/16/23 **By (print)** MM **(sign)** _____

Date Labeled 2.16.23 **By (print)** JJP **(sign)** _____

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 02/17/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 3.8 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 1.5 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 2/17/23

SOUTHWEST AIRLINES

Printed on:
16 FEB 18:33

526 OAK 8463 8190

SNA

PC# 4 OF 4 | DG G | LOT WT 160 LB (72.5 KG)

OAK WN 1738 16 FEB 19:25

STN FLT DATE ETD LOT 01

PC ID: 0004
PC WT: 40LB

526 84638190 0004

S

1.5 / 3.8

Results & QC Summary

Enthalpy Analytical - Orange Analytical Report

Lab #: 479661 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-EXT-1 TO 2-230216-P-WF **Batch#:** 307899 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 8082

Lab ID: 479661-001 **Received:** 02/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 02/17/23

Dil n Fac: 1.000 **Analyzed:** 02/17/23

479661-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479661-001 Surrogate	%REC	Limits
TCMX (PCB)	66	19-121
Decachlorobiphenyl (PCB)	56	19-121

Field ID: ARCH-C3E-EXT-1 TO 2-230216-P-WF **Batch#:** 307899 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 8082

Lab ID: 479661-004 **Received:** 02/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 02/17/23

Dil n Fac: 1.000 **Analyzed:** 02/17/23

479661-004 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479661-004 Surrogate	%REC	Limits
TCMX (PCB)	60	19-121
Decachlorobiphenyl (PCB)	51	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479661 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-EXT-1 TO 2-230216-P-DUP-WF **Batch#:** 307899 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 8082

Lab ID: 479661-005 **Received:** 02/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 02/17/23

Diln Fac: 1.000 **Analyzed:** 02/17/23

479661-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479661-005 Surrogate	%REC	Limits
TCMX (PCB)	61	19-121
Decachlorobiphenyl (PCB)	52	19-121

Field ID: ARCH-C4E-DG-2 TO 2.5-230216-P-FB **Batch#:** 307899 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 8082

Lab ID: 479661-007 **Received:** 02/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 02/17/23

Diln Fac: 1.000 **Analyzed:** 02/17/23

479661-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479661-007 Surrogate	%REC	Limits
TCMX (PCB)	62	19-121
Decachlorobiphenyl (PCB)	55	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479661 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-P-LA **Batch#:** 307899 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 8082

Lab ID: 479661-009 **Received:** 02/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 02/17/23

Diln Fac: 1.000 **Analyzed:** 02/17/23

479661-009 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479661-009 Surrogate	%REC	Limits
TCMX (PCB)	60	19-121
Decachlorobiphenyl (PCB)	51	19-121

Field ID: ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-LA **Batch#:** 307899 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 8082

Lab ID: 479661-011 **Received:** 02/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 02/17/23

Diln Fac: 1.000 **Analyzed:** 02/17/23

479661-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479661-011 Surrogate	%REC	Limits
TCMX (PCB)	44	19-121
Decachlorobiphenyl (PCB)	40	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479661 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-DUP-LA **Batch#:** 307899 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 8082

Lab ID: 479661-012 **Received:** 02/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 02/17/23

Diln Fac: 1.000 **Analyzed:** 02/17/23

479661-012 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479661-012 Surrogate	%REC	Limits
TCMX (PCB)	64	19-121
Decachlorobiphenyl (PCB)	56	19-121

Field ID: ARCH-C4E-INT-2.5 TO 3.5-230216-P-WF **Batch#:** 307899 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 8082

Lab ID: 479661-014 **Received:** 02/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 02/17/23

Diln Fac: 1.000 **Analyzed:** 02/18/23

479661-014 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479661-014 Surrogate	%REC	Limits
TCMX (PCB)	77	19-121
Decachlorobiphenyl (PCB)	62	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479661 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BLANK **Batch#:** 307899 **Analysis:** EPA 8082

Lab ID: QC1046509 **Prepared:** 02/17/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 02/17/23

DiIn Fac: 1.000 **Prep:** EPA 3546

QC1046509 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1046509 Surrogate	%REC	Limits
TCMX (PCB)	61	19-121
Decachlorobiphenyl (PCB)	55	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 479661 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 307899 **Analysis:** EPA 8082

Lab ID: QC1046510 **Prepared:** 02/17/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 02/17/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1046510 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.089	62	60-140	ug/100 cm2
Aroclor-1260	5.000	3.389	68	60-140	ug/100 cm2

QC1046510 Surrogate	%REC	Limits
TCMX (PCB)	66	19-121
Decachlorobiphenyl (PCB)	61	19-121

Type: BSD **Batch#:** 307899 **Analysis:** EPA 8082

Lab ID: QC1046511 **Prepared:** 02/17/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 02/17/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1046511 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.405	68	60-140	ug/100 cm2	10	20
Aroclor-1260	5.000	3.552	71	60-140	ug/100 cm2	5	20

QC1046511 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	63	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY INITIAL CALIBRATION FOR 479661 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_020823_1
Calibration #:	453057263001	Date:	08-FEB-2023 18:23
Units:	ug/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_020823014	453057263014		08-FEB-2023 18:23	S17807
L2	gc06_020823015	453057263015		08-FEB-2023 18:41	S17797
L3	gc06_020823016	453057263016		08-FEB-2023 18:59	S17798
L4	gc06_020823017	453057263017		08-FEB-2023 19:18	S17799
L5	gc06_020823018	453057263018		08-FEB-2023 19:36	S17800
L6	gc06_020823019	453057263019		08-FEB-2023 19:54	S17801
L7	gc06_020823020	453057263020		08-FEB-2023 20:13	S17802
L8	gc06_020823021	453057263021		08-FEB-2023 20:31	S17803
L9	gc06_020823022	453057263022		08-FEB-2023 20:49	S17804
L10	gc06_020823023	453057263023		08-FEB-2023 21:07	S17805

Analyte	Ch	Type	a0	a1	a2	Avg RF	%RSD	n	Min r^2	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG		46.4238		0.0215	13	10	.99	20	
Aroclor-1016 Peak # 2	A	AVRG		17.0362		0.0587	20	6	.99	20	
Aroclor-1016 Peak # 3	A	AVRG		15.9958		0.0625	20	9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG		20.7502		0.0482	20	8	.99	20	
Aroclor-1016 Peak # 5	A	AVRG		42.5611		0.0235	10	9	.99	20	
Aroclor-1260 Peak # 1	A	AVRG		12.3519		0.0810	18	8	.99	20	
Aroclor-1260 Peak # 2	A	AVRG		8.85788		0.1129	20	10	.99	20	
Aroclor-1260 Peak # 3	A	AVRG		7.85022		0.1274	20	7	.99	20	
Aroclor-1260 Peak # 4	A	AVRG		14.8840		0.0672	12	9	.99	20	
Aroclor-1260 Peak # 5	A	AVRG		13.0736		0.0765	11	10	.99	20	
Decachlorobiphenyl (PCB)	A	AVRG		0.65534		1.5259	18	10	.99	20	
TCMX (PCB)	A	AVRG		0.95059		1.0520	20	10	.99	20	
Aroclor-1016 Peak # 1	B	AVRG		47.8564		0.0209	16	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG		20.4758		0.0488	20	9	.99	20	
Aroclor-1016 Peak # 3	B	AVRG		16.7345		0.0598	18	10	.99	20	
Aroclor-1016 Peak # 4	B	AVRG		23.4682		0.0426	16	10	.99	20	
Aroclor-1016 Peak # 5	B	AVRG		28.9618		0.0345	14	10	.99	20	
Aroclor-1260 Peak # 1	B	AVRG		15.8432		0.0631	19	10	.99	20	
Aroclor-1260 Peak # 2	B	AVRG		13.4253		0.0745	18	9	.99	20	
Aroclor-1260 Peak # 3	B	AVRG		10.2979		0.0971	19	10	.99	20	
Aroclor-1260 Peak # 4	B	AVRG		19.6279		0.0509	11	9	.99	20	
Aroclor-1260 Peak # 5	B	AVRG		11.2308		0.0890	15	10	.99	20	
Decachlorobiphenyl (PCB)	B	AVRG		0.82821		1.2074	17	10	.99	20	
TCMX (PCB)	B	AVRG		0.98463		1.0156	18	10	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)
AVRG: Average response factor

ENTHALPY INITIAL CALIBRATION FOR 479661 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_020823_1
Calibration #:	453057263001	Date:	08-FEB-2023 18:23
Units:	ug/L	X Axis:	R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF	L10 RF
Aroclor-1016 Peak # 1	A	0.0237	0.0266	0.0226	0.0225	0.0235	0.0214	0.0197	0.0192	0.0179	0.0183
Aroclor-1016 Peak # 2	A	0.0682	0.0769	0.0553	0.0531	0.0525	0.0462				
Aroclor-1016 Peak # 3	A	0.0863	0.0775	0.0644	0.0624	0.0630	0.0568	0.0523	0.0522	0.0476	
Aroclor-1016 Peak # 4	A	0.0684	0.0553	0.0466	0.0466	0.0477	0.0433	0.0393	0.0384		
Aroclor-1016 Peak # 5	A		0.0237	0.0213	0.0259	0.0278	0.0254	0.0229	0.0223	0.0208	0.0213
Aroclor-1260 Peak # 1	A	0.1088	0.0927	0.0807	0.0796	0.0837	0.0719	0.0649	0.0653		
Aroclor-1260 Peak # 2	A	0.1577	0.1305	0.1239	0.1197	0.1246	0.1064	0.0955	0.0950	0.0847	0.0910
Aroclor-1260 Peak # 3	A		0.1773	0.1351	0.1178	0.1355	0.1148	0.1056	0.1057		
Aroclor-1260 Peak # 4	A		0.0738	0.0736	0.0725	0.0788	0.0678	0.0615	0.0624	0.0550	0.0592
Aroclor-1260 Peak # 5	A	0.0892	0.0799	0.0792	0.0808	0.0867	0.0762	0.0689	0.0686	0.0645	0.0708
Decachlorobiphenyl (PCB)	A	2.1785	1.7591	1.5788	1.5319	1.4716	1.4978	1.3051	1.3306	1.2606	1.3452
TCMX (PCB)	A	1.1975	1.5848	1.0815	1.0564	0.9745	0.9675	0.8874	0.9122	0.9149	0.9430
Aroclor-1016 Peak # 1	B		0.0281	0.0227	0.0220	0.0222	0.0207	0.0189	0.0184	0.0175	0.0178
Aroclor-1016 Peak # 2	B	0.0695	0.0571	0.0509	0.0488	0.0485	0.0452	0.0413	0.0403	0.0379	
Aroclor-1016 Peak # 3	B	0.0841	0.0686	0.0661	0.0602	0.0600	0.0561	0.0513	0.0508	0.0495	0.0508
Aroclor-1016 Peak # 4	B	0.0586	0.0468	0.0452	0.0434	0.0449	0.0412	0.0378	0.0373	0.0348	0.0361
Aroclor-1016 Peak # 5	B	0.0449	0.0378	0.0355	0.0357	0.0366	0.0341	0.0310	0.0306	0.0288	0.0302
Aroclor-1260 Peak # 1	B	0.0889	0.0737	0.0662	0.0657	0.0677	0.0603	0.0536	0.0534	0.0492	0.0525
Aroclor-1260 Peak # 2	B		0.1004	0.0851	0.0806	0.0823	0.0720	0.0642	0.0636	0.0590	0.0632
Aroclor-1260 Peak # 3	B	0.1388	0.1130	0.1008	0.0979	0.1041	0.0915	0.0845	0.0849	0.0748	0.0807
Aroclor-1260 Peak # 4	B		0.0585	0.0558	0.0544	0.0545	0.0525	0.0469	0.0461	0.0418	0.0480
Aroclor-1260 Peak # 5	B	0.1135	0.1018	0.0920	0.0904	0.0978	0.0873	0.0805	0.0813	0.0704	0.0754
Decachlorobiphenyl (PCB)	B	1.6965	1.3671	1.2720	1.2353	1.1831	1.1949	1.0275	1.0475	0.9952	1.0552
TCMX (PCB)	B	1.4930	1.1674	1.0201	0.9557	0.9237	0.9568	0.8797	0.9070	0.9106	0.9421

ENTHALPY INITIAL CALIBRATION FOR 479661 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_020823_1
Calibration #:	453057263001	Date:	08-FEB-2023 18:23
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A	10.000	10	20.000	**24**	50.000	5	100.00	4	250.00	9	500.00	-1	749.91	-8	1000.0	-11
Aroclor-1016 Peak # 2	A	10.000	16	20.000	**31**	50.000	-6	100.00	-10	250.00	-11	500.00	**-21**				
Aroclor-1016 Peak # 3	A	10.000	**38**	20.000	**24**	50.000	3	100.00	0	250.00	1	500.00	-9	749.91	-16	1000.0	-16
Aroclor-1016 Peak # 4	A	10.000	**42**	20.000	15	50.000	-3	100.00	-3	250.00	-1	500.00	-10	749.91	-19	1000.0	-20
Aroclor-1016 Peak # 5	A			20.000	1	50.000	-9	100.00	10	250.00	18	500.00	8	749.91	-3	1000.0	-5
Aroclor-1260 Peak # 1	A	10.000	**34**	20.000	15	50.000	0	100.00	-2	250.00	3	500.00	-11	749.91	-20	1000.0	-19
Aroclor-1260 Peak # 2	A	10.000	**40**	20.000	16	50.000	10	100.00	6	250.00	10	500.00	-6	749.91	-15	1000.0	-16
Aroclor-1260 Peak # 3	A			20.000	**39**	50.000	6	100.00	-8	250.00	6	500.00	-10	749.91	-17	1000.0	-17
Aroclor-1260 Peak # 4	A			20.000	10	50.000	10	100.00	8	250.00	17	500.00	1	749.91	-8	1000.0	-7
Aroclor-1260 Peak # 5	A	10.000	17	20.000	4	50.000	4	100.00	6	250.00	13	500.00	0	749.91	-10	1000.0	-10
Decachlorobiphenyl (PCB)	A	0.8000	**43**	1.6000	15	4.0000	3	8.0000	0	20.000	-4	40.000	-2	59.993	-14	80.000	-13
TCMX (PCB)	A	0.8000	14	1.6000	**51**	4.0000	3	8.0000	0	20.000	-7	40.000	-8	59.993	-16	80.000	-13
Aroclor-1016 Peak # 1	B			20.000	**34**	50.000	9	100.00	5	250.00	6	500.00	-1	749.91	-10	1000.0	-12
Aroclor-1016 Peak # 2	B	10.000	**42**	20.000	17	50.000	4	100.00	0	250.00	-1	500.00	-8	749.91	-15	1000.0	-18
Aroclor-1016 Peak # 3	B	10.000	**41**	20.000	15	50.000	11	100.00	1	250.00	0	500.00	-6	749.91	-14	1000.0	-15
Aroclor-1016 Peak # 4	B	10.000	**38**	20.000	10	50.000	6	100.00	2	250.00	5	500.00	-3	749.91	-11	1000.0	-12
Aroclor-1016 Peak # 5	B	10.000	**30**	20.000	10	50.000	3	100.00	3	250.00	6	500.00	-1	749.91	-10	1000.0	-11
Aroclor-1260 Peak # 1	B	10.000	**41**	20.000	17	50.000	5	100.00	4	250.00	7	500.00	-4	749.91	-15	1000.0	-15
Aroclor-1260 Peak # 2	B			20.000	**35**	50.000	14	100.00	8	250.00	11	500.00	-3	749.91	-14	1000.0	-15
Aroclor-1260 Peak # 3	B	10.000	**43**	20.000	16	50.000	4	100.00	1	250.00	7	500.00	-6	749.91	-13	1000.0	-13
Aroclor-1260 Peak # 4	B			20.000	15	50.000	10	100.00	7	250.00	7	500.00	3	749.91	-8	1000.0	-9
Aroclor-1260 Peak # 5	B	10.000	**27**	20.000	14	50.000	3	100.00	2	250.00	10	500.00	-2	749.91	-10	1000.0	-9
Decachlorobiphenyl (PCB)	B	0.8000	**41**	1.6000	13	4.0000	5	8.0000	2	20.000	-2	40.000	-1	59.993	-15	80.000	-13
TCMX (PCB)	B	0.8000	**47**	1.6000	15	4.0000	0	8.0000	-6	20.000	-9	40.000	-6	59.993	-13	80.000	-11

ENTHALPY INITIAL CALIBRATION FOR 479661 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_020823_1
Calibration #:	453057263001	Date:	08-FEB-2023 18:23
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L9	%D	L10	%D
Aroclor-1016 Peak # 1	A	1500.0	-17	2000.0	-15
Aroclor-1016 Peak # 2	A				
Aroclor-1016 Peak # 3	A	1500.0	**-24**		
Aroclor-1016 Peak # 4	A				
Aroclor-1016 Peak # 5	A	1500.0	-12	2000.0	-9
Aroclor-1260 Peak # 1	A				
Aroclor-1260 Peak # 2	A	1500.0	**-25**	2000.0	-19
Aroclor-1260 Peak # 3	A				
Aroclor-1260 Peak # 4	A	1500.0	-18	2000.0	-12
Aroclor-1260 Peak # 5	A	1500.0	-16	2000.0	-7
Decachlorobiphenyl (PCB)	A	120.00	-17	160.00	-12
TCMX (PCB)	A	120.00	-13	160.00	-10
Aroclor-1016 Peak # 1	B	1500.0	-16	2000.0	-15
Aroclor-1016 Peak # 2	B	1500.0	**-22**		
Aroclor-1016 Peak # 3	B	1500.0	-17	2000.0	-15
Aroclor-1016 Peak # 4	B	1500.0	-18	2000.0	-15
Aroclor-1016 Peak # 5	B	1500.0	-17	2000.0	-12
Aroclor-1260 Peak # 1	B	1500.0	**-22**	2000.0	-17
Aroclor-1260 Peak # 2	B	1500.0	**-21**	2000.0	-15
Aroclor-1260 Peak # 3	B	1500.0	**-23**	2000.0	-17
Aroclor-1260 Peak # 4	B	1500.0	-18	2000.0	-6
Aroclor-1260 Peak # 5	B	1500.0	**-21**	2000.0	-15
Decachlorobiphenyl (PCB)	B	120.00	-18	160.00	-13
TCMX (PCB)	B	120.00	-10	160.00	-7

TRN 02/09/23 : Manually integrated for coeluting peak, negative/positive, tailing for one/both channels on multiple levels

Analyst: TRN 02/09/23 *

Reviewer: LW 02/09/23

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 479661 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Name:	PCB_020823_1
Calnum:	453057263001	Cal Date:	08-FEB-2023

- ICV 453057263025 (gc06_020823025 08-FEB-2023) stds: S17806

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	447.8	ug/L	-10	15	
Aroclor-1260	A	500.0	431.8	ug/L	-14	15	
Aroclor-1016	B	500.0	456.2	ug/L	-9	15	
Aroclor-1260	B	500.0	450.0	ug/L	-10	15	

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Analyst: TRN 02/09/23 **Reviewer:** LW 02/09/23

ENTHALPY INITIAL CALIBRATION FOR 479661 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_021723_1268
Calibration #:	453069687001	Date:	17-FEB-2023 12:07
Units:	ug/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_021723011	453069687011		17-FEB-2023 12:07	S17815

Analyte	Ch	L1 RF	Type	a0	a1	a2	Avg RF	%RSD	Min r^2	Max %RSD	Flags
Aroclor-1268 Peak # 1	A	0.0319	AVRG		31.3506		0.0319	0	.99	20	
Aroclor-1268 Peak # 2	A	0.0409	AVRG		24.4215		0.0409	0	.99	20	
Aroclor-1268 Peak # 3	A	0.1748	AVRG		5.72081		0.1748	0	.99	20	
Aroclor-1268 Peak # 4	A	0.1391	AVRG		7.18985		0.1391	0	.99	20	
Aroclor-1268 Peak # 5	A	0.4782	AVRG		2.09121		0.4782	0	.99	20	
Aroclor-1268 Peak # 1	B	0.0256	AVRG		39.1366		0.0256	0	.99	20	
Aroclor-1268 Peak # 2	B	0.0320	AVRG		31.2293		0.0320	0	.99	20	
Aroclor-1268 Peak # 3	B	0.1289	AVRG		7.75776		0.1289	0	.99	20	
Aroclor-1268 Peak # 4	B	0.1027	AVRG		9.73695		0.1027	0	.99	20	
Aroclor-1268 Peak # 5	B	0.3389	AVRG		2.95095		0.3389	0	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)
AVRG: Average response factor

Spiked Amounts / Drifts	Ch	L1	%D
Aroclor-1268 Peak # 1	A	2000.0	0
Aroclor-1268 Peak # 2	A	2000.0	0
Aroclor-1268 Peak # 3	A	2000.0	0
Aroclor-1268 Peak # 4	A	2000.0	0
Aroclor-1268 Peak # 5	A	2000.0	0
Aroclor-1268 Peak # 1	B	2000.0	0
Aroclor-1268 Peak # 2	B	2000.0	0
Aroclor-1268 Peak # 3	B	2000.0	0
Aroclor-1268 Peak # 4	B	2000.0	0
Aroclor-1268 Peak # 5	B	2000.0	0

Analyst: TRN 02/24/23

Reviewer: LW 02/24/23

ENTHALPY CONTINUING CALIBRATION FOR 479661 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06			IDF:	1.0
Seqnum:	453069687029	File:	gc06_021723029	Time:	17-FEB-2023 17:33
Cal:	453057263001	Caldate:	08-FEB-2023		

Standards: S17896

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	444.6	ug/L	-11	15	0.0000	
Aroclor-1260	A			500.0	445.5	ug/L	-11	15	0.0000	
Decachlorobiphenyl (PCB)	A	1.5259	0.7818	40.00	20.50	ug/L	**-49**	15	0.0000	c-
TCMX (PCB)	A	1.0520	0.5114	40.00	19.45	ug/L	**-51**	15	0.0000	c-
Aroclor-1016	B			500.0	453.2	ug/L	-9	15	0.0000	
Aroclor-1260	B			500.0	461.2	ug/L	-8	15	0.0000	
Decachlorobiphenyl (PCB)	B	1.2074	0.6051	40.00	20.05	ug/L	**-50**	15	0.0000	c-
TCMX (PCB)	B	1.0156	0.5084	40.00	20.02	ug/L	**-50**	15	0.0000	c-

ISTD (ICAL gc06_020823016)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6070370	8293841	36.63
1-bromo-2-nitrobenzene (PCB)	A	1467458	1858745	26.66

TRN 02/17/23 : Run for next batch

-=low bias c=CCV

Analyst: TRN 02/17/23 **Reviewer:** LW 02/24/23

Enthalpy Internal Standard Summary for Sequence 453069687

Date:	02/17/23	Reference:	gc06_020823016
Sequence:	SVOA-GC06 gc06_021723	Analyzed:	02/08/23 18:59

#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		ICAL STD	6070370	1467458
		LOWER LIMIT	3035185	733729
		UPPER LIMIT	12140741	2934916
004	CCV		6503188	1526603
029	CCV		8293841	1858745

Enthalpy Internal Standard Summary for Sequence 453069687

Date:	02/17/23	Reference:	gc06_021723011
Sequence:	SVOA-GC06 gc06_021723	Analyzed:	02/17/23 12:07

#	Type	Sample ID	1BR2NITROBZ1268 B	1BR2NITROBZ1268 A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	6659056	1543460
		LOWER LIMIT	3329528	771730
		UPPER LIMIT	13318112	3086920
038	BLANK	QC1046509		
041	SAMPLE	479660-001		
042	SAMPLE	479660-003		
043	SAMPLE	479660-005		
044	SAMPLE	479661-001		
045	SAMPLE	479661-004	6954789	1553850
046	SAMPLE	479661-005	6923618	1543194
047	SAMPLE	479661-007		
048	SAMPLE	479661-009		
049	SAMPLE	479661-011		
050	SAMPLE	479661-012		
051	SAMPLE	479661-014		

Enthalpy Internal Standard Summary for Sequence 453069687

Date:	02/17/23	Reference:	gc06_021723011
Sequence:	SVOA-GC06 gc06_021723	Analyzed:	02/17/23 12:07

#	Type	Sample ID	1BR2NITROBZ1268 B RT	1BR2NITROBZ1268 A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.43	4.19
		LOWER LIMIT	4.23	3.99
		UPPER LIMIT	4.63	4.39
038	BLANK	QC1046509		
041	SAMPLE	479660-001		
042	SAMPLE	479660-003		
043	SAMPLE	479660-005		
044	SAMPLE	479661-001		
045	SAMPLE	479661-004	4.43	4.19
046	SAMPLE	479661-005	4.43	4.19
047	SAMPLE	479661-007		
048	SAMPLE	479661-009		
049	SAMPLE	479661-011		
050	SAMPLE	479661-012		
051	SAMPLE	479661-014		

Enthalpy Internal Standard Summary for Sequence 453069687

Date:	02/17/23	Reference:	gc06_021723029
Sequence:	SVOA-GC06 gc06_021723	Analyzed:	02/17/23 17:33

#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	8293841	1858745
		LOWER LIMIT	4146920	929372
		UPPER LIMIT	16587682	3717489
038	BLANK	QC1046509	8004699	1678187
039	BS	QC1046510	7776939	1640717
040	BSD	QC1046511	7529594	1646630
041	SAMPLE	479660-001	7668716	1667508
042	SAMPLE	479660-003	7614020	1665129
043	SAMPLE	479660-005	7170361	1556234
044	SAMPLE	479661-001	7173008	1576556
045	SAMPLE	479661-004	7202263	1571775
046	SAMPLE	479661-005	7092563	1554606
047	SAMPLE	479661-007	6623172	1455184
048	SAMPLE	479661-009	7073633	1549952
049	SAMPLE	479661-011	7174513	1583640
050	SAMPLE	479661-012	6650716	1470522
051	SAMPLE	479661-014	6836629	1494797

Enthalpy Internal Standard Summary for Sequence 453069687

Date:	02/17/23	Reference:	gc06_021723029
Sequence:	SVOA-GC06 gc06_021723	Analyzed:	02/17/23 17:33

#	Type	Sample ID	1BR2NITROBZPCB B RT	1BR2NITROBZPCB A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.43	4.20
		LOWER LIMIT	4.23	4.00
		UPPER LIMIT	4.63	4.40
038	BLANK	QC1046509	4.43	4.19
039	BS	QC1046510	4.43	4.19
040	BSD	QC1046511	4.43	4.19
041	SAMPLE	479660-001	4.43	4.19
042	SAMPLE	479660-003	4.43	4.19
043	SAMPLE	479660-005	4.43	4.19
044	SAMPLE	479661-001	4.43	4.19
045	SAMPLE	479661-004	4.43	4.19
046	SAMPLE	479661-005	4.43	4.19
047	SAMPLE	479661-007	4.43	4.19
048	SAMPLE	479661-009	4.43	4.19
049	SAMPLE	479661-011	4.43	4.19
050	SAMPLE	479661-012	4.43	4.19
051	SAMPLE	479661-014	4.43	4.19

Enthalpy Sequence Summary for Sequence 453057263

Instrument: SVOA-GC06 Begun: 02/08/23 18:23
Method: EPA 8082

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
014	gc06_020823014	ICAL				02/08/23 18:23	1.0	1
015	gc06_020823015	ICAL				02/08/23 18:41	1.0	2
016	gc06_020823016	ICAL				02/08/23 18:59	1.0	3
017	gc06_020823017	ICAL				02/08/23 19:18	1.0	4
018	gc06_020823018	ICAL				02/08/23 19:36	1.0	5
019	gc06_020823019	ICAL				02/08/23 19:54	1.0	6
020	gc06_020823020	ICAL				02/08/23 20:13	1.0	7
021	gc06_020823021	ICAL				02/08/23 20:31	1.0	8
022	gc06_020823022	ICAL				02/08/23 20:49	1.0	9
023	gc06_020823023	ICAL				02/08/23 21:07	1.0	10
025	gc06_020823025	ICV				02/08/23 21:44	1.0	11

TRN 02/09/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 14 through 25.

Standards Used:
1=S17807 2=S17797 3=S17798 4=S17799 5=S17800 6=S17801 7=S17802 8=S17803 9=S17804 10=S17805 11=S17806

Enthalpy Sequence Summary for Sequence 453069687

Instrument: SVOA-GC06 Begun: 02/17/23 09:27

Method: EPA 8081A, EPA 8082

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	gc06_021723002	PEM				02/17/23 09:27	1.0	1
003	gc06_021723003	CCV				02/17/23 09:46	1.0	2
004	gc06_021723004	CCV				02/17/23 10:04	1.0	3
011	gc06_021723011	ICAL				02/17/23 12:07	1.0	4
029	gc06_021723029	CCV				02/17/23 17:33	1.0	3
038	gc06_021723038	BLANK	QC1046509	Wipe	307899	02/17/23 20:00	1.0	5
039	gc06_021723039	BS	QC1046510	Wipe	307899	02/17/23 20:19	1.0	5
040	gc06_021723040	BSD	QC1046511	Wipe	307899	02/17/23 20:37	1.0	5
041	gc06_021723041	SAMPLE	479660-001	Wipe	307899	02/17/23 20:56	1.0	5
042	gc06_021723042	SAMPLE	479660-003	Wipe	307899	02/17/23 21:14	1.0	5
043	gc06_021723043	SAMPLE	479660-005	Wipe	307899	02/17/23 21:32	1.0	5
044	gc06_021723044	SAMPLE	479661-001	Wipe	307899	02/17/23 21:51	1.0	5
045	gc06_021723045	SAMPLE	479661-004	Wipe	307899	02/17/23 22:09	1.0	5
046	gc06_021723046	SAMPLE	479661-005	Wipe	307899	02/17/23 22:28	1.0	5
047	gc06_021723047	SAMPLE	479661-007	Wipe	307899	02/17/23 22:46	1.0	5
048	gc06_021723048	SAMPLE	479661-009	Wipe	307899	02/17/23 23:04	1.0	5
049	gc06_021723049	SAMPLE	479661-011	Wipe	307899	02/17/23 23:23	1.0	5
050	gc06_021723050	SAMPLE	479661-012	Wipe	307899	02/17/23 23:41	1.0	5
051	gc06_021723051	SAMPLE	479661-014	Wipe	307899	02/18/23 00:00	1.0	5

TRN 02/20/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 2 through 51.

Standards Used:
1=S17384 2=S17980 3=S17896 4=S17815 5=S17544

SAMPLE PREPARATION SUMMARY

Batch # : 307899
Started By : EPL
Method : 3546
Spike #1 ID : S17962
Prep Date : 17-FEB-2023 14:23
Spike #2 ID : S17946
Analysis : 8080
Finished By : EPL
Units : dm2

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
479660-001		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
479660-003		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
479660-005		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
479661-001		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
479661-004		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
479661-005		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
479661-007		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
479661-009		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
479661-011		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
479661-012		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
479661-014		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
QC1046509	BLANK	Wipe	1	10	1	10.0		.5				8080	
QC1046510	BS	Wipe	1	10	1	10.0		.5	.5			8080	
QC1046511	BSD	Wipe	1	10	1	10.0		.5	.5			8080	

TRN 02/20/23 : BS/D verify the batch

Analyst: TRN Date: 02/20/23 Reviewer: LW Date: 02/24/23

8081/8082/608.3 Prep Log

Prep Method: 3546 MICROWAVE Matrix: WIPE Date/Time: 2/17/23 14:25 Initials: EPL

Hotblock ID: N/A Therm Loc: _____ Therm ID/CF: _____/_____ 608.3 QC Batch#: _____

Hotblock Temp (Obs/Corr), °C: _____/_____ 8081 QC Batch #: _____

Balance ID: N/A Microdipenser ID: _____ 8082 QC Batch #: 307899

Extraction Start Time*: 14:29 Extraction end time*: 15:17

* For hot block, microwave, shaker table

Sample ID	Cont. ID	Sample Initial Amount Circle one: mL g	pH is 5-9?	Extraction Equipment ID (Sox, Sonic., Shaker)	Turbo Vap ID	Extract, Final Volume (mL)	Date/Time (if diff from above)	Comment
Blank		1dm²	N/A	M1102-9	TV09	10.0		
LCS		↓		10	↓	↓		
LCSD				11				
479660-001	A			12				
-003	A			13	↓			
-005	A			14	TV08			
479661-001	A			15				
-004	A			17				
-005	A			18				
-007	A			19				
-009	A			20	↓			
-011	A			21	TV09			
-012	A			22	↓			
-014	A	↓		23	↓	↓		

Methylene Chloride Lot: N/A

Exchange Solvent (Hexane) ID: 224920

Acetone-Hexane Mix ID: _____

Sodium Sulfate Lot: 213142

Baked Sand Lot: N/A

Surrogate ID: 517962 Volume: 500 µL

Pest LCS Spike ID: _____ Volume: _____ µL

PCB LCS Spike ID: 517946 Volume: 500 µL

Pest MS/MSD Spike ID: _____ Volume: _____ µL

PCB MS/MSD Spike ID: _____ Volume: _____ µL

REPORTING SUMMARY FOR 479661 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
479661-001	Aroclor-1016	SVOA-GC06	B	02/17/23 21:51
479661-001	Aroclor-1221	SVOA-GC06	B	02/17/23 21:51
479661-001	Aroclor-1232	SVOA-GC06	B	02/17/23 21:51
479661-001	Aroclor-1242	SVOA-GC06	B	02/17/23 21:51
479661-001	Aroclor-1248	SVOA-GC06	B	02/17/23 21:51
479661-001	Aroclor-1254	SVOA-GC06	B	02/17/23 21:51
479661-001	Aroclor-1260	SVOA-GC06	B	02/17/23 21:51
479661-001	Aroclor-1262	SVOA-GC06	B	02/17/23 21:51
479661-001	Aroclor-1268	SVOA-GC06	B	02/17/23 21:51
479661-001	TCMX (PCB)	SVOA-GC06	B	02/17/23 21:51
479661-001	Decachlorobiphenyl (PCB)	SVOA-GC06	B	02/17/23 21:51
479661-004	Aroclor-1016	SVOA-GC06	B	02/17/23 22:09
479661-004	Aroclor-1221	SVOA-GC06	B	02/17/23 22:09
479661-004	Aroclor-1232	SVOA-GC06	B	02/17/23 22:09
479661-004	Aroclor-1242	SVOA-GC06	B	02/17/23 22:09
479661-004	Aroclor-1248	SVOA-GC06	B	02/17/23 22:09
479661-004	Aroclor-1254	SVOA-GC06	B	02/17/23 22:09
479661-004	Aroclor-1260	SVOA-GC06	B	02/17/23 22:09
479661-004	Aroclor-1262	SVOA-GC06	B	02/17/23 22:09
479661-004	Aroclor-1268	SVOA-GC06	B	02/17/23 22:09
479661-004	TCMX (PCB)	SVOA-GC06	B	02/17/23 22:09
479661-004	Decachlorobiphenyl (PCB)	SVOA-GC06	B	02/17/23 22:09
479661-005	Aroclor-1016	SVOA-GC06	B	02/17/23 22:28
479661-005	Aroclor-1221	SVOA-GC06	B	02/17/23 22:28
479661-005	Aroclor-1232	SVOA-GC06	B	02/17/23 22:28
479661-005	Aroclor-1242	SVOA-GC06	B	02/17/23 22:28
479661-005	Aroclor-1248	SVOA-GC06	B	02/17/23 22:28
479661-005	Aroclor-1254	SVOA-GC06	B	02/17/23 22:28
479661-005	Aroclor-1260	SVOA-GC06	B	02/17/23 22:28
479661-005	Aroclor-1262	SVOA-GC06	B	02/17/23 22:28
479661-005	Aroclor-1268	SVOA-GC06	B	02/17/23 22:28
479661-005	TCMX (PCB)	SVOA-GC06	B	02/17/23 22:28
479661-005	Decachlorobiphenyl (PCB)	SVOA-GC06	B	02/17/23 22:28
479661-007	Aroclor-1016	SVOA-GC06	B	02/17/23 22:46
479661-007	Aroclor-1221	SVOA-GC06	B	02/17/23 22:46
479661-007	Aroclor-1232	SVOA-GC06	B	02/17/23 22:46
479661-007	Aroclor-1242	SVOA-GC06	B	02/17/23 22:46
479661-007	Aroclor-1248	SVOA-GC06	B	02/17/23 22:46
479661-007	Aroclor-1254	SVOA-GC06	B	02/17/23 22:46
479661-007	Aroclor-1260	SVOA-GC06	B	02/17/23 22:46
479661-007	Aroclor-1262	SVOA-GC06	B	02/17/23 22:46
479661-007	Aroclor-1268	SVOA-GC06	B	02/17/23 22:46
479661-007	TCMX (PCB)	SVOA-GC06	B	02/17/23 22:46
479661-007	Decachlorobiphenyl (PCB)	SVOA-GC06	B	02/17/23 22:46
479661-009	Aroclor-1016	SVOA-GC06	B	02/17/23 23:04
479661-009	Aroclor-1221	SVOA-GC06	B	02/17/23 23:04
479661-009	Aroclor-1232	SVOA-GC06	B	02/17/23 23:04
479661-009	Aroclor-1242	SVOA-GC06	B	02/17/23 23:04
479661-009	Aroclor-1248	SVOA-GC06	B	02/17/23 23:04
479661-009	Aroclor-1254	SVOA-GC06	B	02/17/23 23:04

REPORTING SUMMARY FOR 479661 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
479661-009	Aroclor-1260	SVOA-GC06	B	02/17/23 23:04
479661-009	Aroclor-1262	SVOA-GC06	B	02/17/23 23:04
479661-009	Aroclor-1268	SVOA-GC06	B	02/17/23 23:04
479661-009	TCMX (PCB)	SVOA-GC06	B	02/17/23 23:04
479661-009	Decachlorobiphenyl (PCB)	SVOA-GC06	B	02/17/23 23:04
479661-011	Aroclor-1016	SVOA-GC06	B	02/17/23 23:23
479661-011	Aroclor-1221	SVOA-GC06	B	02/17/23 23:23
479661-011	Aroclor-1232	SVOA-GC06	B	02/17/23 23:23
479661-011	Aroclor-1242	SVOA-GC06	B	02/17/23 23:23
479661-011	Aroclor-1248	SVOA-GC06	B	02/17/23 23:23
479661-011	Aroclor-1254	SVOA-GC06	B	02/17/23 23:23
479661-011	Aroclor-1260	SVOA-GC06	B	02/17/23 23:23
479661-011	Aroclor-1262	SVOA-GC06	B	02/17/23 23:23
479661-011	Aroclor-1268	SVOA-GC06	B	02/17/23 23:23
479661-011	TCMX (PCB)	SVOA-GC06	B	02/17/23 23:23
479661-011	Decachlorobiphenyl (PCB)	SVOA-GC06	B	02/17/23 23:23
479661-012	Aroclor-1016	SVOA-GC06	B	02/17/23 23:41
479661-012	Aroclor-1221	SVOA-GC06	B	02/17/23 23:41
479661-012	Aroclor-1232	SVOA-GC06	B	02/17/23 23:41
479661-012	Aroclor-1242	SVOA-GC06	B	02/17/23 23:41
479661-012	Aroclor-1248	SVOA-GC06	B	02/17/23 23:41
479661-012	Aroclor-1254	SVOA-GC06	B	02/17/23 23:41
479661-012	Aroclor-1260	SVOA-GC06	B	02/17/23 23:41
479661-012	Aroclor-1262	SVOA-GC06	B	02/17/23 23:41
479661-012	Aroclor-1268	SVOA-GC06	B	02/17/23 23:41
479661-012	TCMX (PCB)	SVOA-GC06	B	02/17/23 23:41
479661-012	Decachlorobiphenyl (PCB)	SVOA-GC06	B	02/17/23 23:41
479661-014	Aroclor-1016	SVOA-GC06	B	02/18/23 00:00
479661-014	Aroclor-1221	SVOA-GC06	B	02/18/23 00:00
479661-014	Aroclor-1232	SVOA-GC06	B	02/18/23 00:00
479661-014	Aroclor-1242	SVOA-GC06	B	02/18/23 00:00
479661-014	Aroclor-1248	SVOA-GC06	B	02/18/23 00:00
479661-014	Aroclor-1254	SVOA-GC06	B	02/18/23 00:00
479661-014	Aroclor-1260	SVOA-GC06	B	02/18/23 00:00
479661-014	Aroclor-1262	SVOA-GC06	B	02/18/23 00:00
479661-014	Aroclor-1268	SVOA-GC06	B	02/18/23 00:00
479661-014	TCMX (PCB)	SVOA-GC06	B	02/18/23 00:00
479661-014	Decachlorobiphenyl (PCB)	SVOA-GC06	B	02/18/23 00:00
QC1046509	Aroclor-1016	SVOA-GC06	B	02/17/23 20:00
QC1046509	Aroclor-1221	SVOA-GC06	B	02/17/23 20:00
QC1046509	Aroclor-1232	SVOA-GC06	B	02/17/23 20:00
QC1046509	Aroclor-1242	SVOA-GC06	B	02/17/23 20:00
QC1046509	Aroclor-1248	SVOA-GC06	B	02/17/23 20:00
QC1046509	Aroclor-1254	SVOA-GC06	B	02/17/23 20:00
QC1046509	Aroclor-1260	SVOA-GC06	B	02/17/23 20:00
QC1046509	Aroclor-1262	SVOA-GC06	B	02/17/23 20:00
QC1046509	Aroclor-1268	SVOA-GC06	B	02/17/23 20:00
QC1046509	TCMX (PCB)	SVOA-GC06	B	02/17/23 20:00
QC1046509	Decachlorobiphenyl (PCB)	SVOA-GC06	B	02/17/23 20:00

REPORTING SUMMARY FOR 479661 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC1046510	Aroclor-1016	SVOA-GC06	B	02/17/23 20:19
QC1046510	Aroclor-1260	SVOA-GC06	A	02/17/23 20:19
QC1046510	TCMX (PCB)	SVOA-GC06	B	02/17/23 20:19
QC1046510	Decachlorobiphenyl (PCB)	SVOA-GC06	B	02/17/23 20:19
QC1046511	Aroclor-1016	SVOA-GC06	B	02/17/23 20:37
QC1046511	Aroclor-1260	SVOA-GC06	B	02/17/23 20:37
QC1046511	TCMX (PCB)	SVOA-GC06	B	02/17/23 20:37
QC1046511	Decachlorobiphenyl (PCB)	SVOA-GC06	B	02/17/23 20:37

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	479661-001	Client ID:	ARCH-C5E-EXT-1 TO 2-230216-P-WF
Seqnum:	453069687044	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_021723044	Batch:	307899	Time:	17-FEB-2023 21:51
Cal:	453057263001	Caldate:	08-FEB-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	38.98	ND	0.55	34%	0.50		u
Aroclor-1016 Peak # 1	B	2.614	0.03	0.38	174%			
Aroclor-1016 Peak # 2	B	56.43	0.56	0.09	143%			
Aroclor-1016 Peak # 3	B	134.2	1.34	0.52	89%			
Aroclor-1016 Peak # 4	B	1.089	0.01	1.16	196%			
Aroclor-1016 Peak # 5	B	0.5844	0.01	0.60	196%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	17.83	ND	0.36	69%	0.50		u
Aroclor-1260 Peak # 1	B	33.40	0.33	0.04	157%			
Aroclor-1260 Peak # 2	B	10.18	0.10	0.02	129%			
Aroclor-1260 Peak # 3	B	7.403	0.07	0.06	25%			
Aroclor-1260 Peak # 4	B	28.04	0.28	0.62	76%			
Aroclor-1260 Peak # 5	B	10.14	0.10	1.08	166%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	33.10	0.5000	0.3310	66	19-121	c- u
Decachlorobiphenyl (PCB)	B	27.92	0.5000	0.2792	56	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	6659056	**???**	**-100.00 ***
1-bromo-2-nitrobenzene (1268)	A	1543460	**???**	**-100.00 ***

ISTD (CCV gc06_021723029)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	8293841	7173008	-13.51
1-bromo-2-nitrobenzene (PCB)	A	1858745	1576556	-15.18

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.43	**???**	
1-bromo-2-nitrobenzene (1268)	A	4.19	**???**	

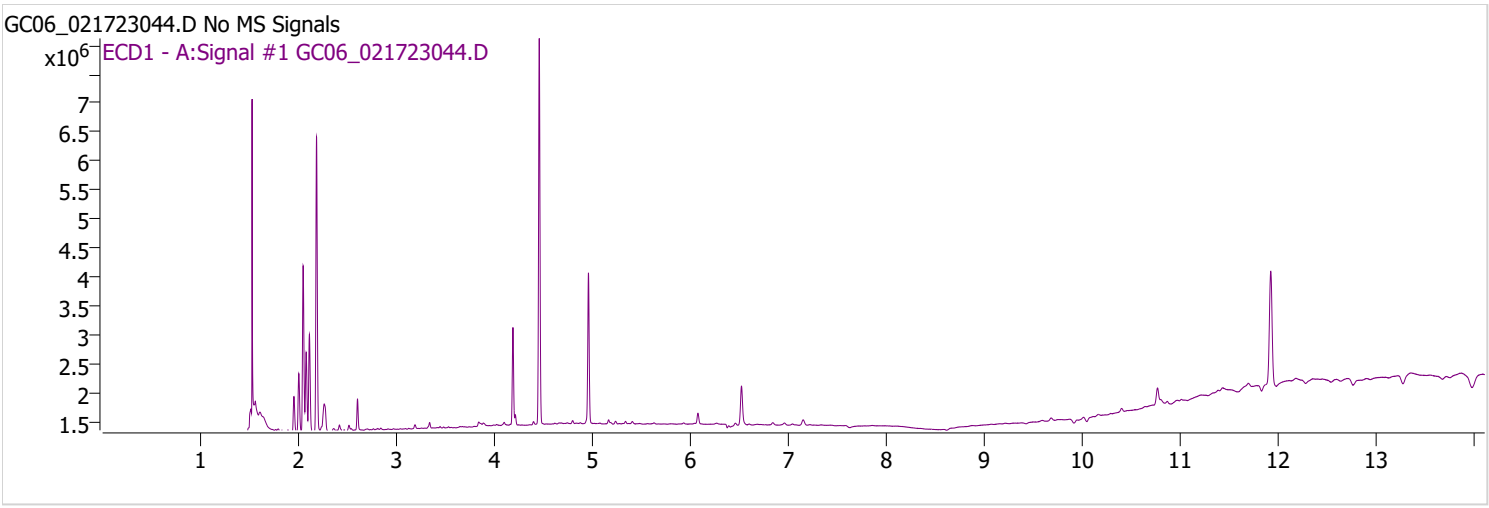
ISTD (CCV gc06_021723029)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.20	4.19	-0.01

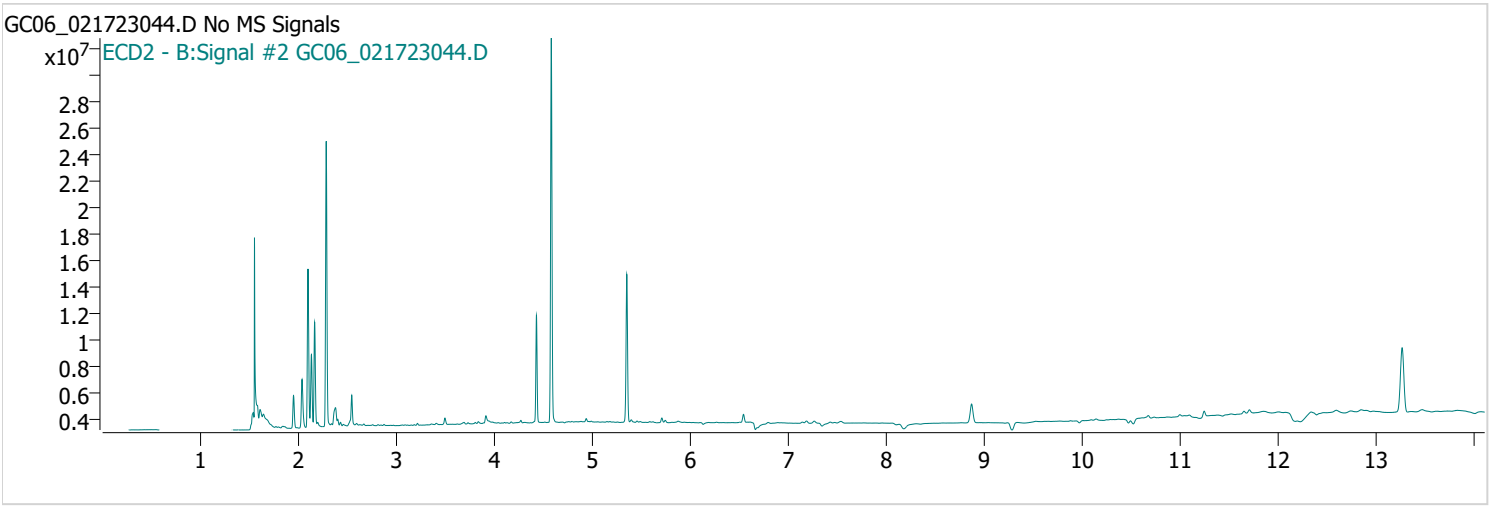
-=low bias c=CCV u=use

Analyst: MES 02/20/23 **Reviewer:** LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723044.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 9:51:18 PM
Sample Name	479661-001, 307899, 1	Instrument	SVOA-GC06
Vial	23	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
Ref Library			



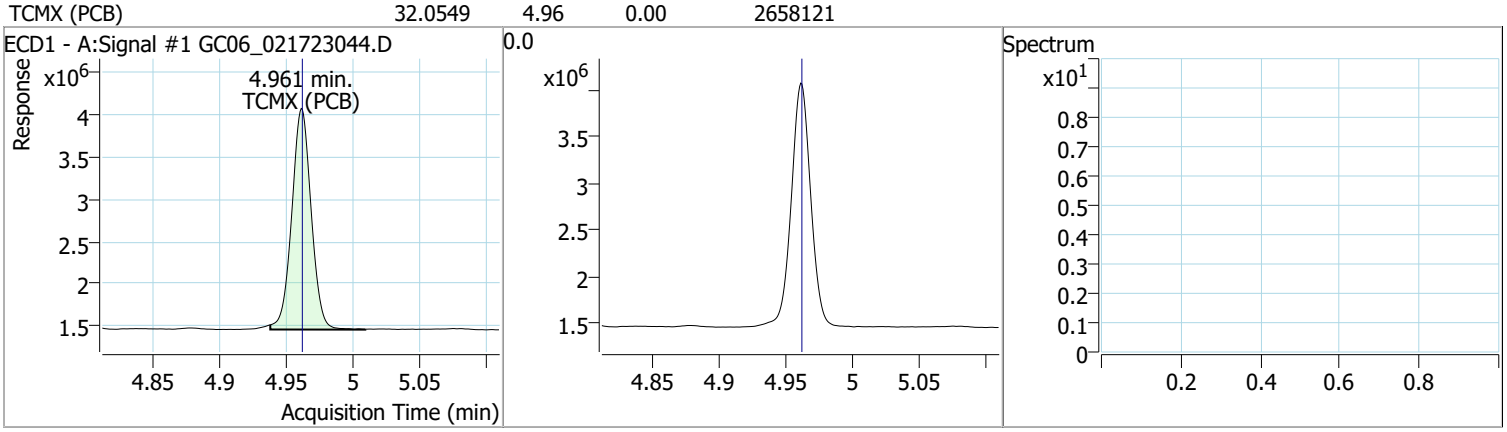


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.190	0.0	1576555.905	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.430	0.0	7173008.178	20.0000	ng/ml		-0.002
System Monitoring Compounds							
S TCMX (PCB)	4.961	0.0	2658120.783	32.0549	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 160.27%		*	
S TCMX (PCB) #2	5.353	0.0	12058352.357	33.1050	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 165.53%		*	
S Decachlorobiphenyl (PCB)	11.928	0.0	3876879.218	32.2312	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 161.16%		*	
S Decachlorobiphenyl (PCB) #2	13.270	0.0	12088841.978	27.9163	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 139.58%			
Target Compounds							QValue

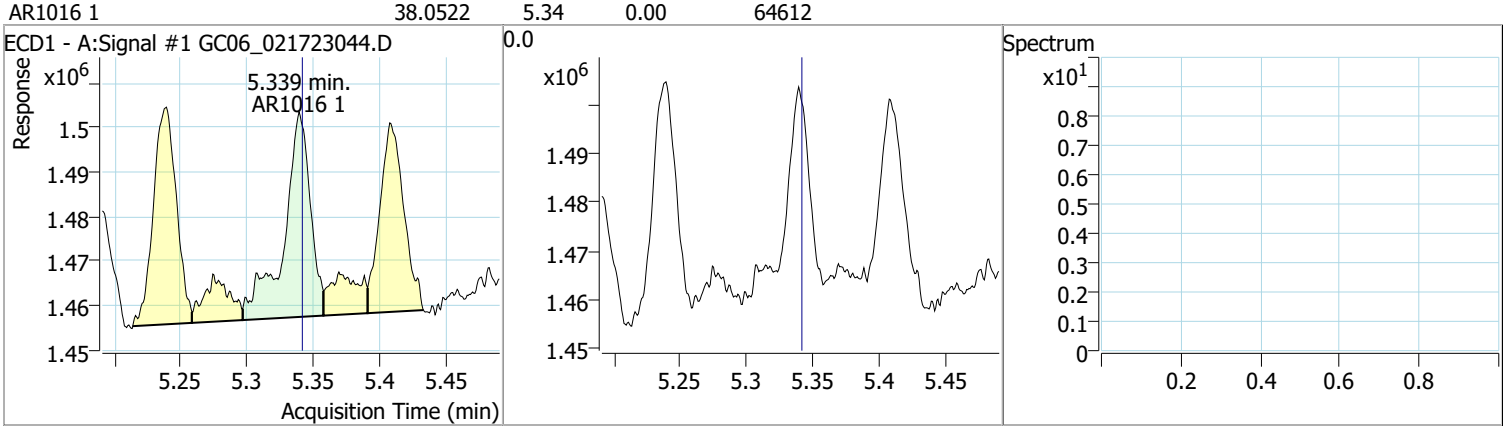
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.339	0.0	64611.994	38.0522	ng/ml	100
T AR1016 2	5.628	0.0	42965.401	9.2856	ng/ml	100
T AR1016 1 #2	5.814	0.0	19587.980	2.6137	ng/ml	100
T AR1016 3	6.079	0.0	254469.275	51.6379	ng/ml	100
T AR1016 4	6.271	0.0	440889.669	116.0590	ng/ml	100
T AR1016 2 #2	6.267	0.0	988434.280	56.4317	ng/ml	100
T AR1016 5	6.460	0.0	110640.617	59.7385	ng/ml	100
T AR1016 3 #2	6.796	0.0	2876036.167	134.1961	ng/ml	100
T AR1016 4 #2	7.016	0.0	16643.883	1.0891	ng/ml	100
T AR1016 5 #2	7.688	0.0	7237.172	0.5844	ng/ml	100
T AR1260 1	8.585	0.0	25657.094	4.0204	ng/ml	100
T AR1260 2	9.070	0.0	19434.899	2.1839	ng/ml	100
T AR1260 3	9.599	0.0	57537.340	5.7301	ng/ml	100
T AR1260 1 #2	9.883	0.0	756033.740	33.3977	ng/ml	100
T AR1260 4	10.018	0.0	330798.927	62.4612	ng/ml	100
T AR1260 2 #2	10.144	0.0	271863.402	10.1767	ng/ml	100
T AR1260 3 #2	10.495	0.0	257822.299	7.4029	ng/ml	100
T AR1260 5	10.772	0.0	650983.855	107.9668	ng/ml	100
T AR1260 4 #2	11.002	0.0	512381.403	28.0415	ng/ml	100
T AR1260 5 #2	11.656	0.0	323891.063	10.1425	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

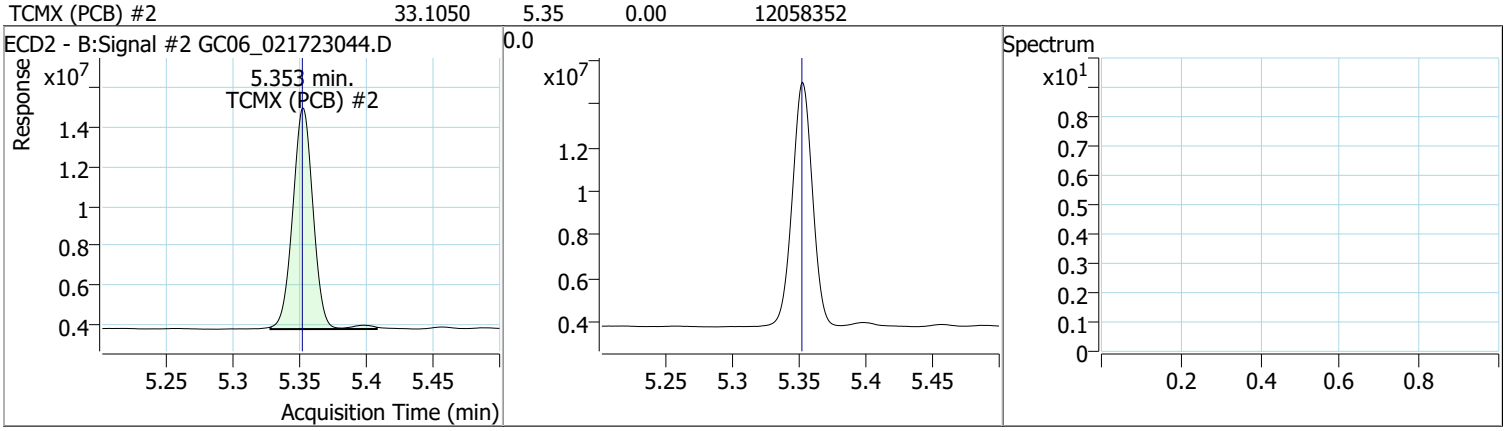
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	32.0549	4.96	0.00	2658121				



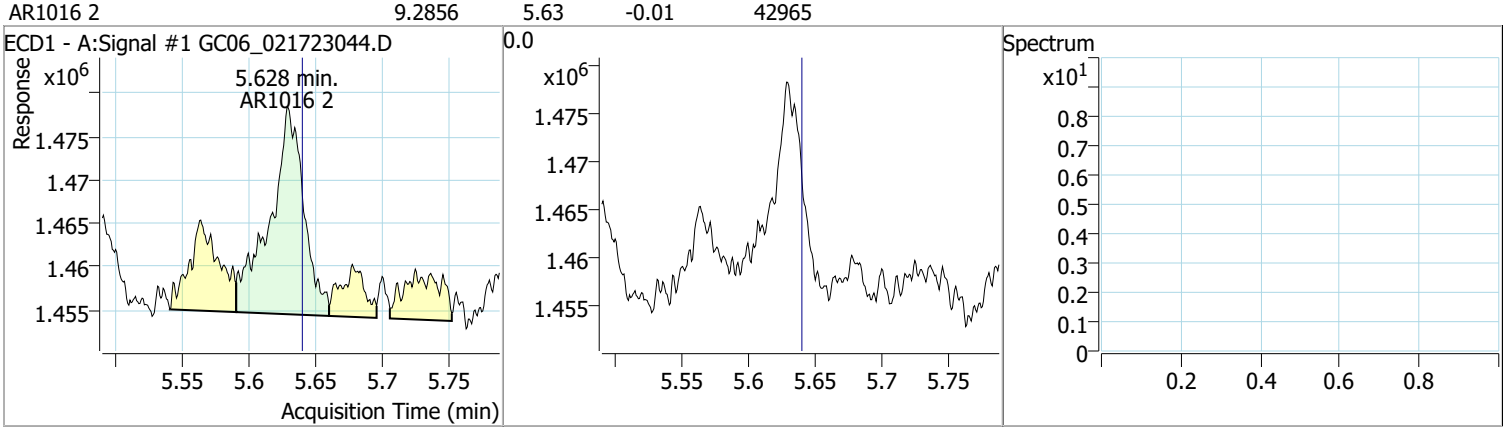
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	38.0522	5.34	0.00	64612				



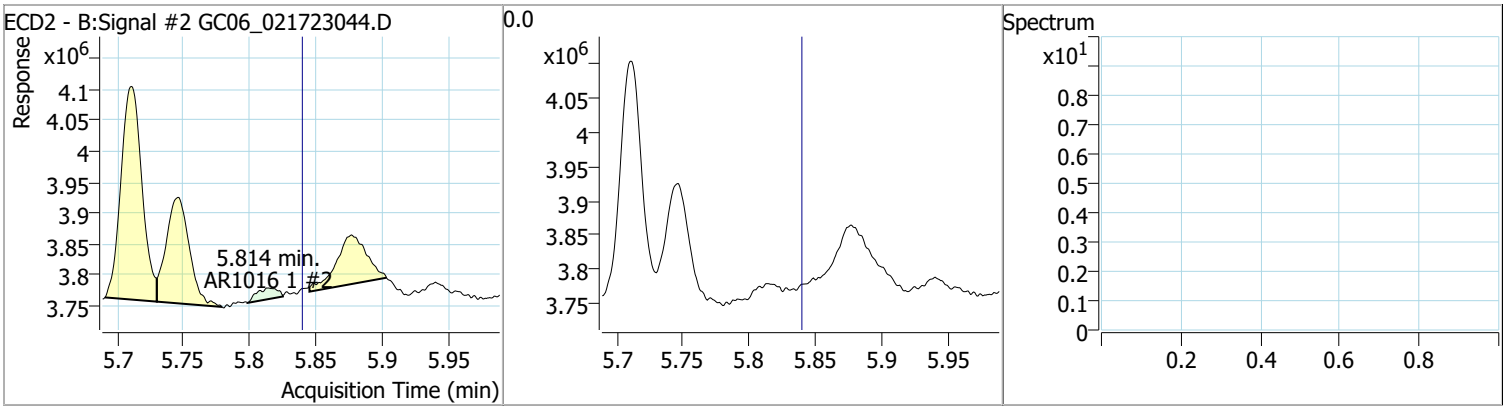
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	33.1050	5.35	0.00	12058352				



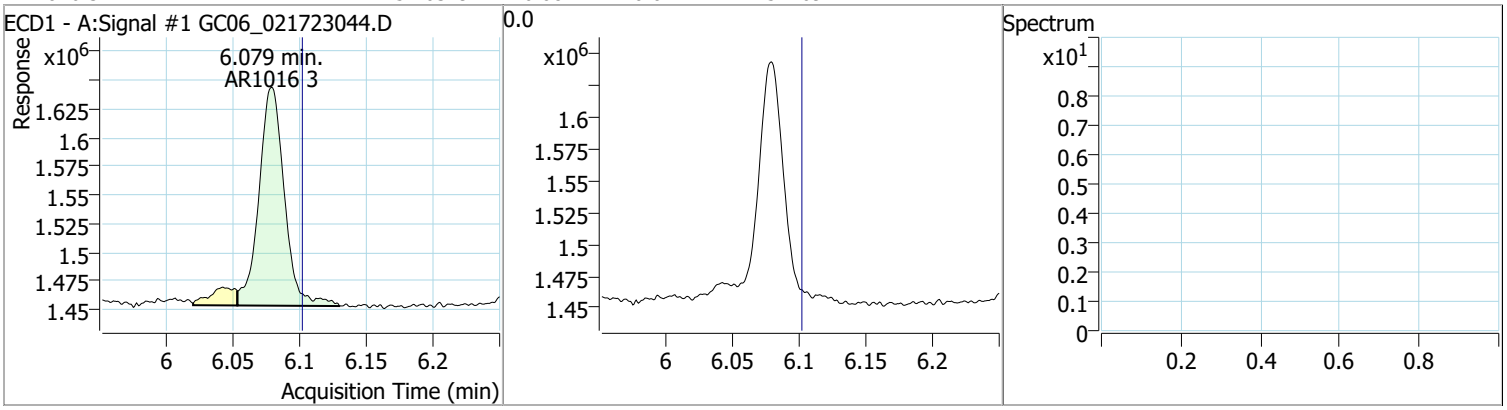
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	9.2856	5.63	-0.01	42965				



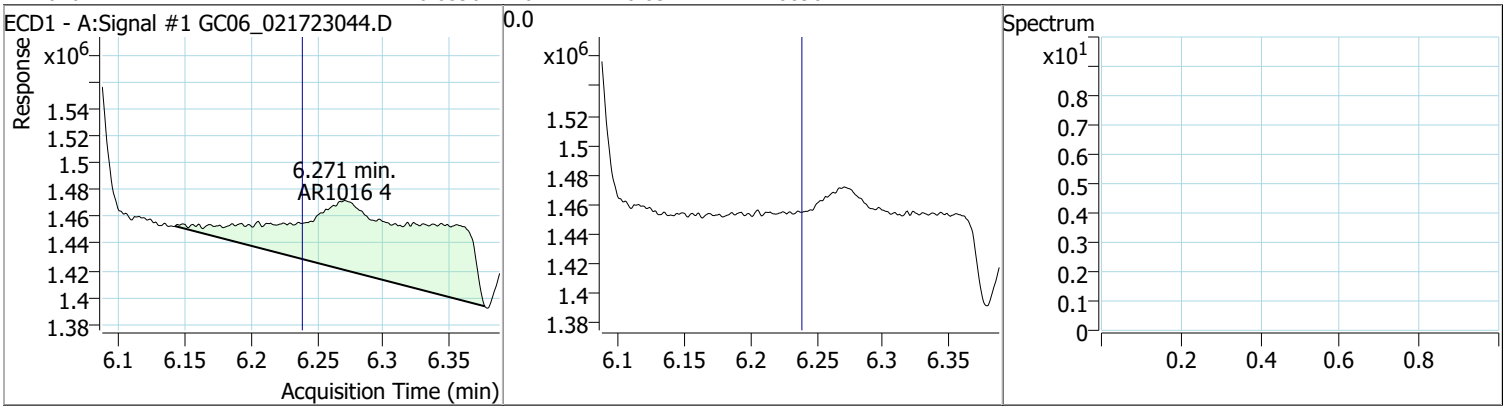
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	2.6137	5.81	-0.03	19588				



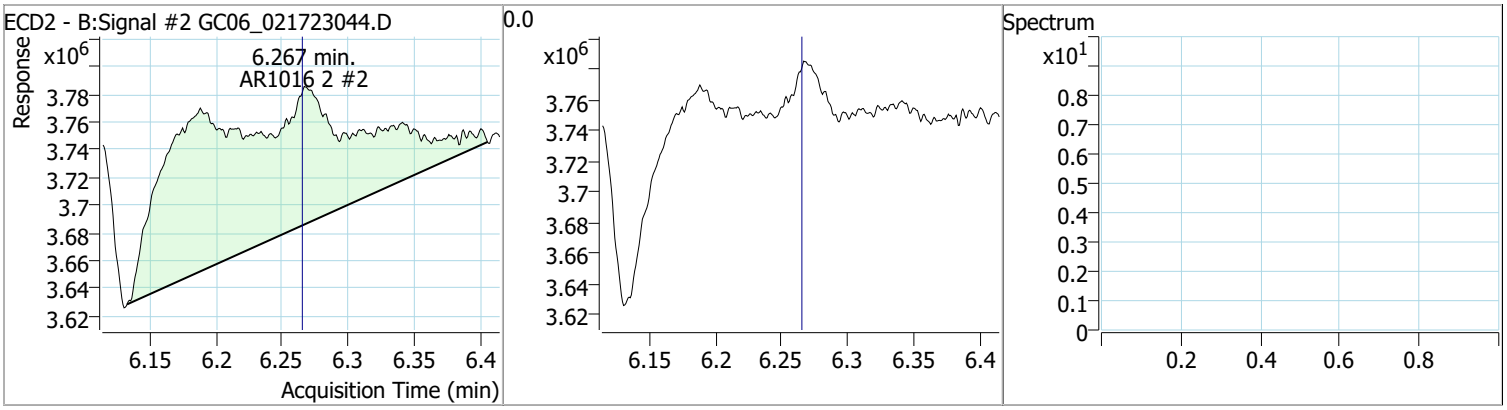
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	51.6379	6.08	-0.02	254469				



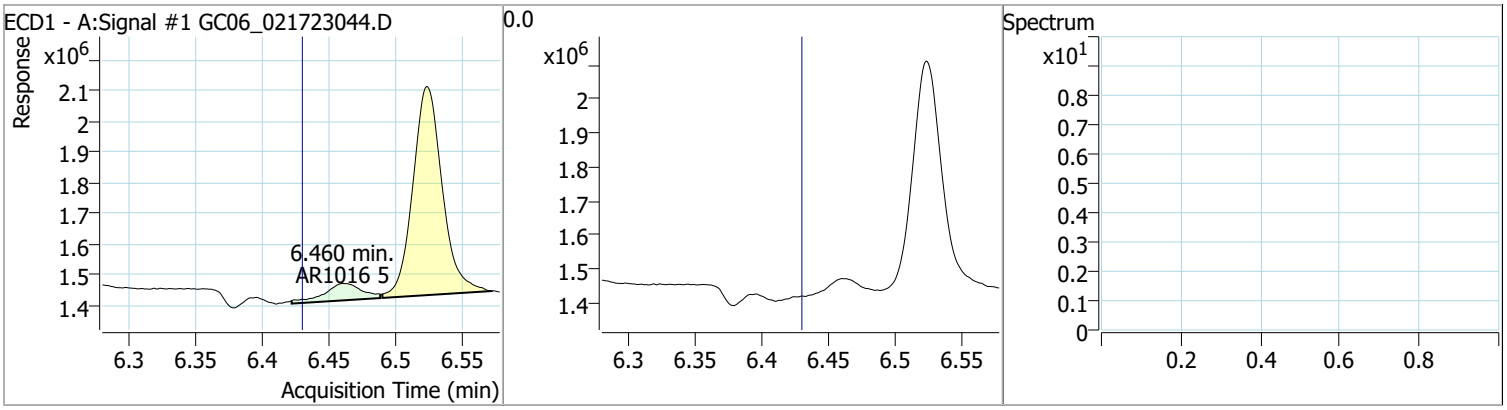
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	116.0590	6.27	0.03	440890				



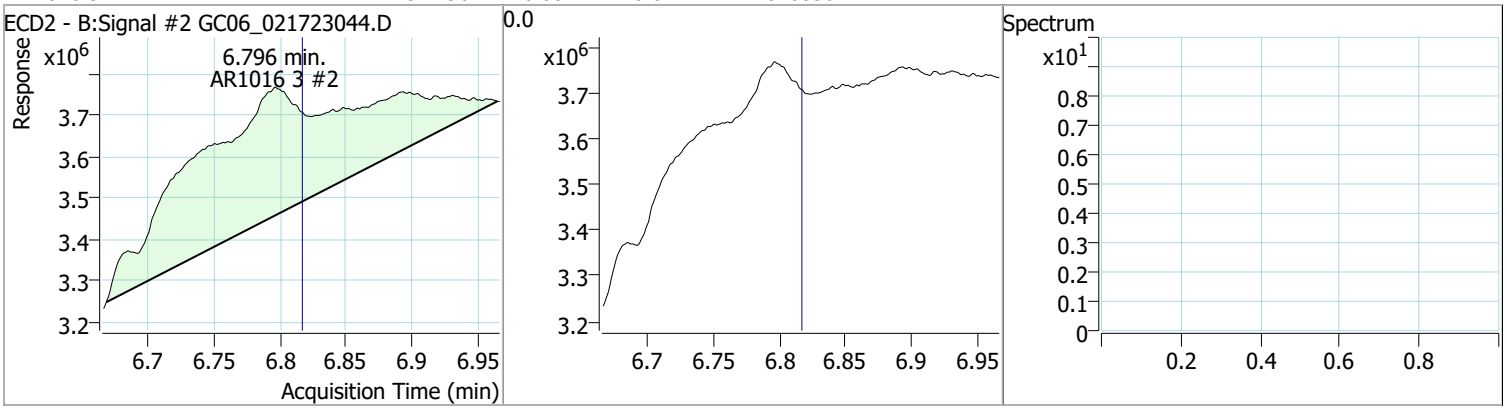
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	56.4317	6.27	0.00	988434				



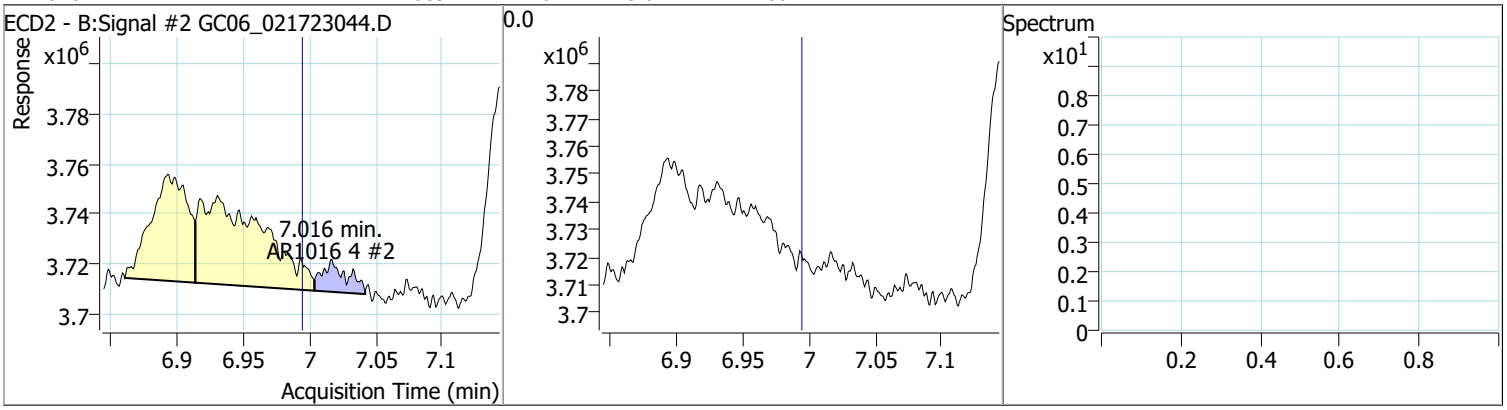
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	59.7385	6.46	0.03	110641				



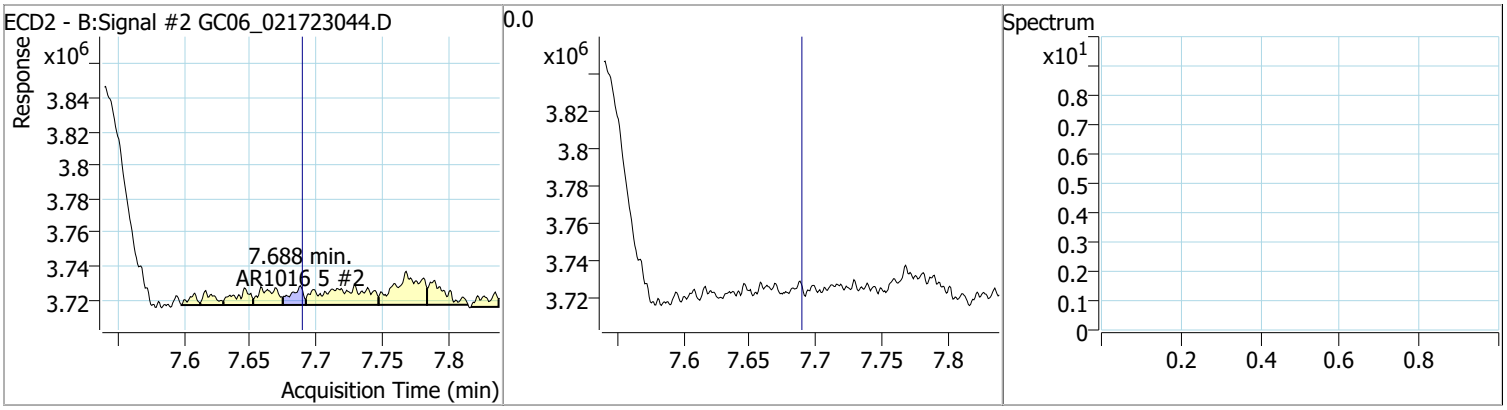
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	134.1961	6.80	-0.02	2876036				



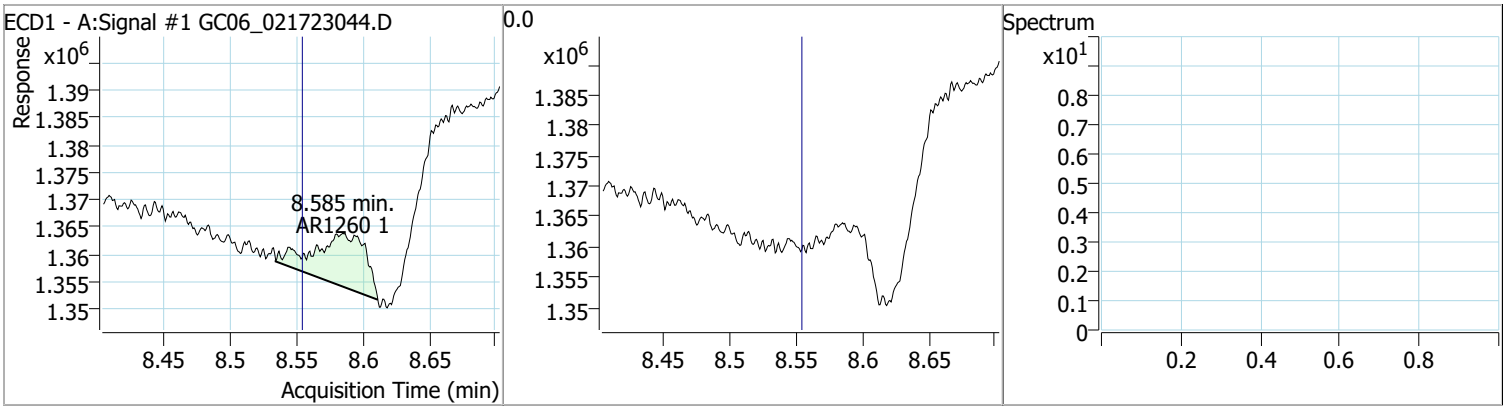
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	1.0891	7.02	0.02	16644				



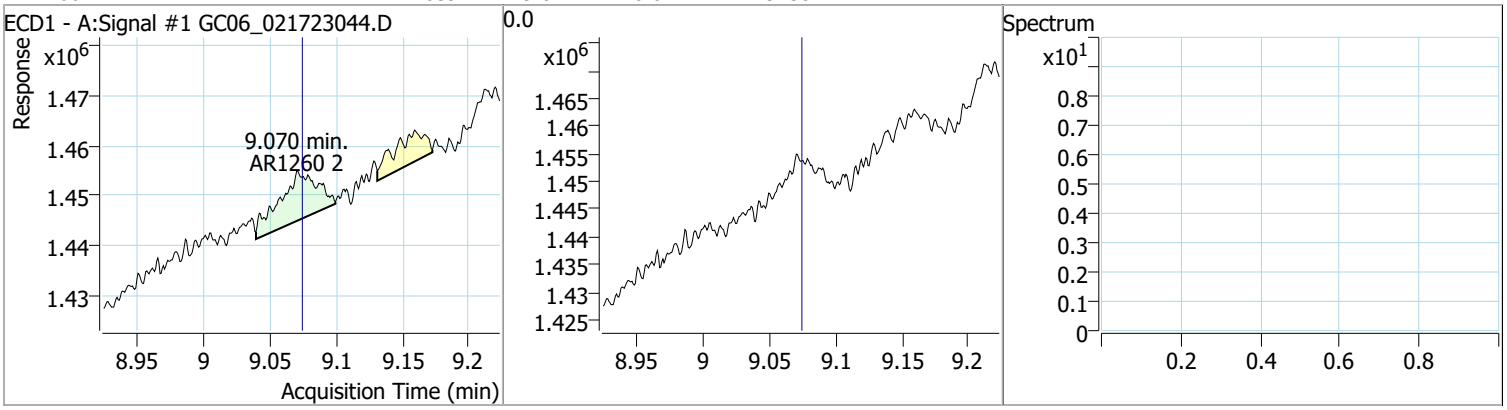
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	0.5844	7.69	0.00	7237				



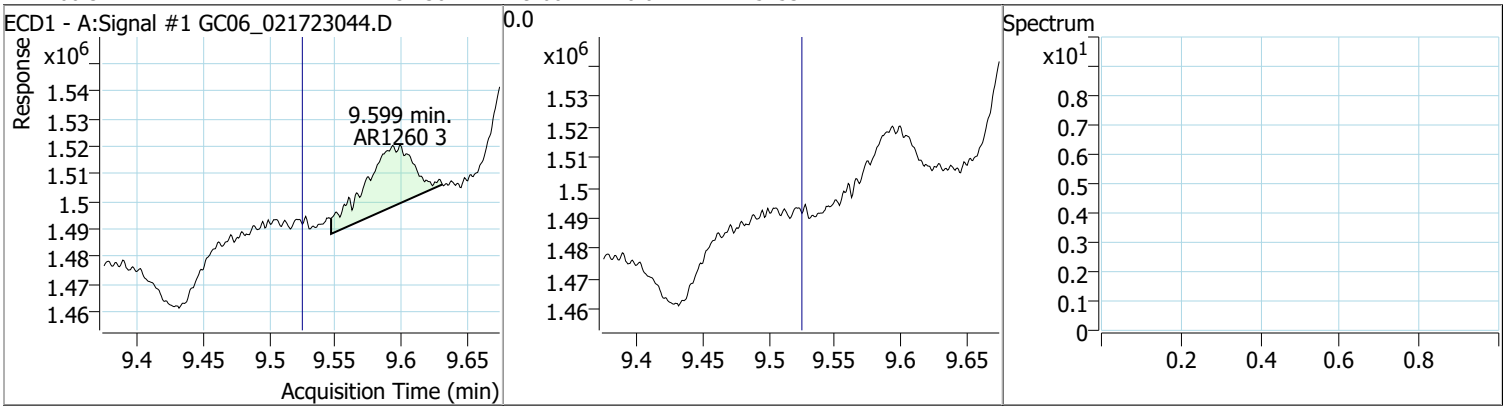
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	4.0204	8.59	0.03	25657				



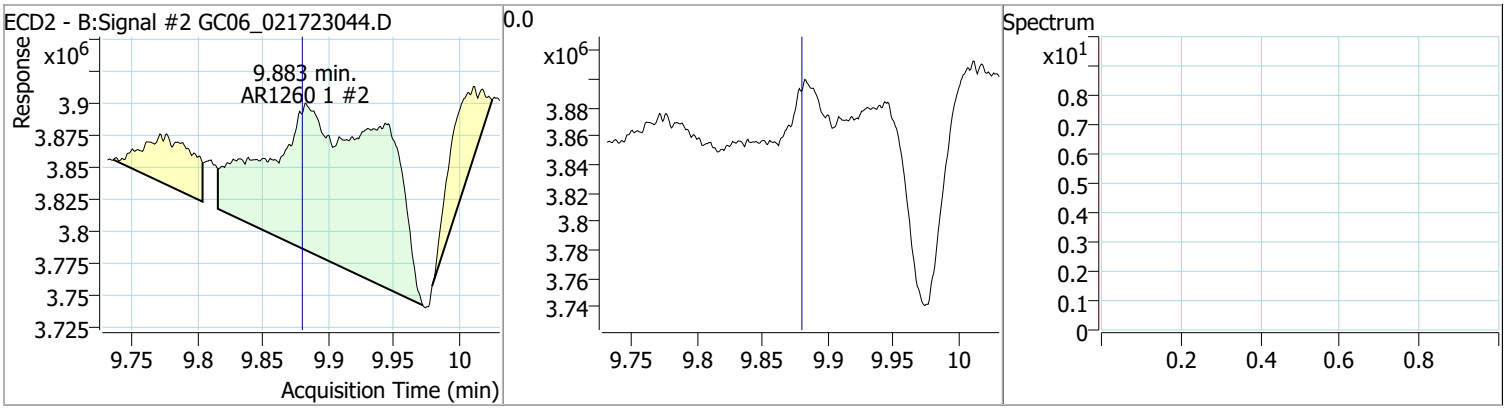
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	2.1839	9.07	-0.01	19435				



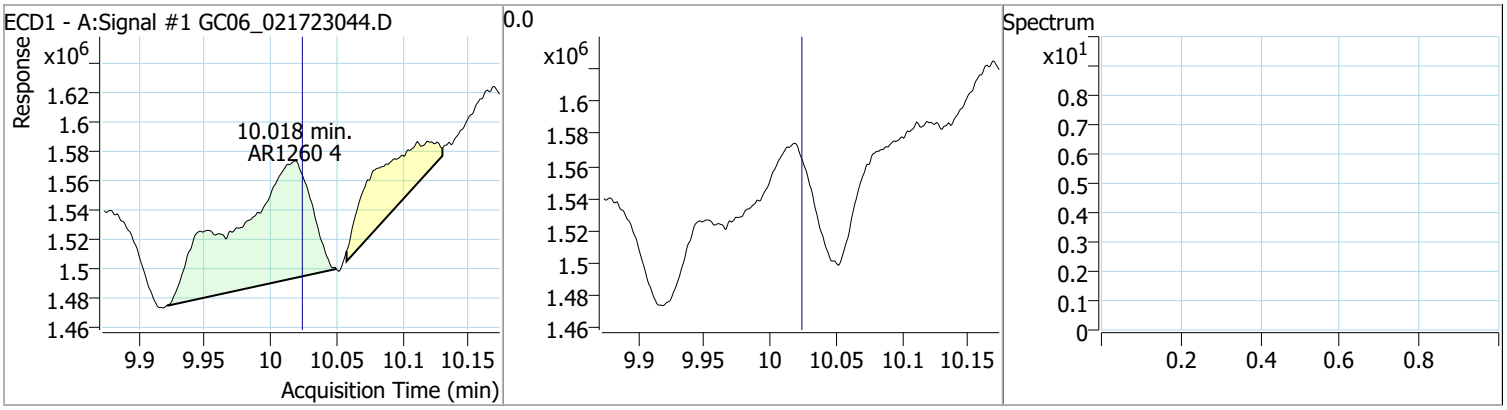
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	5.7301	9.60	0.07	57537				



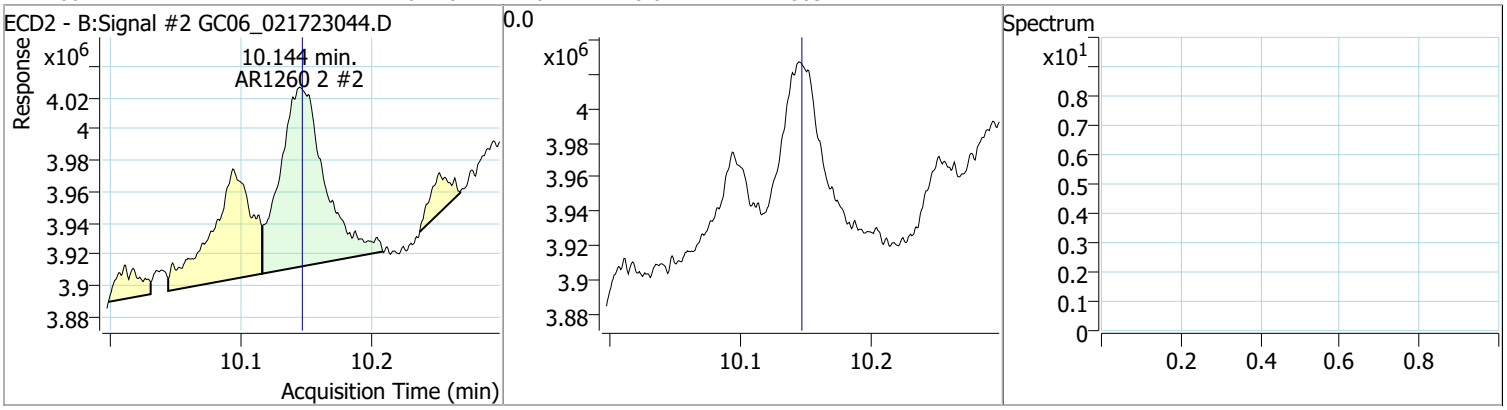
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	33.3977	9.88	0.00	756034				



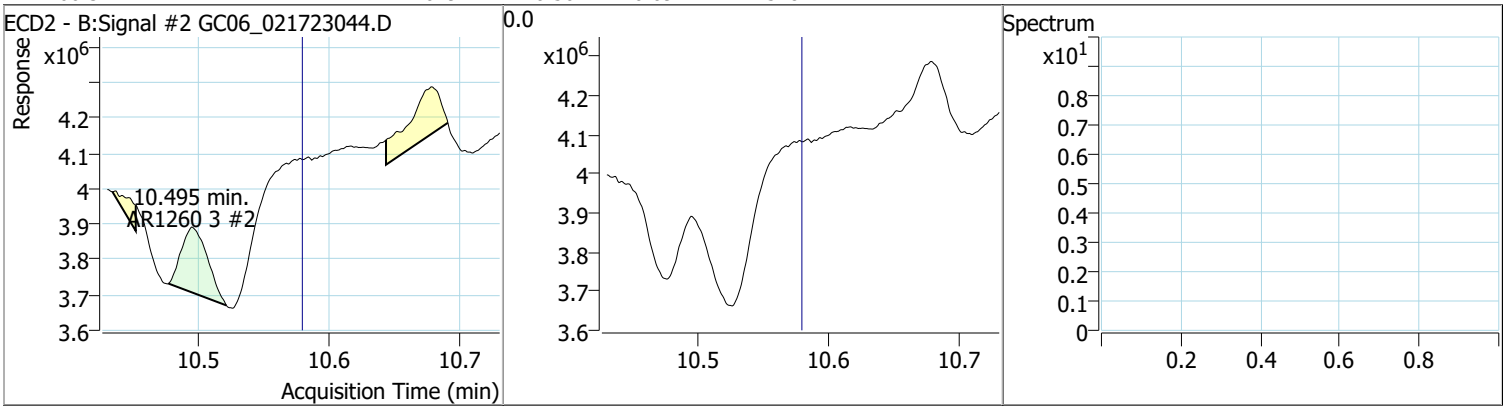
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	62.4612	10.02	-0.01	330799				



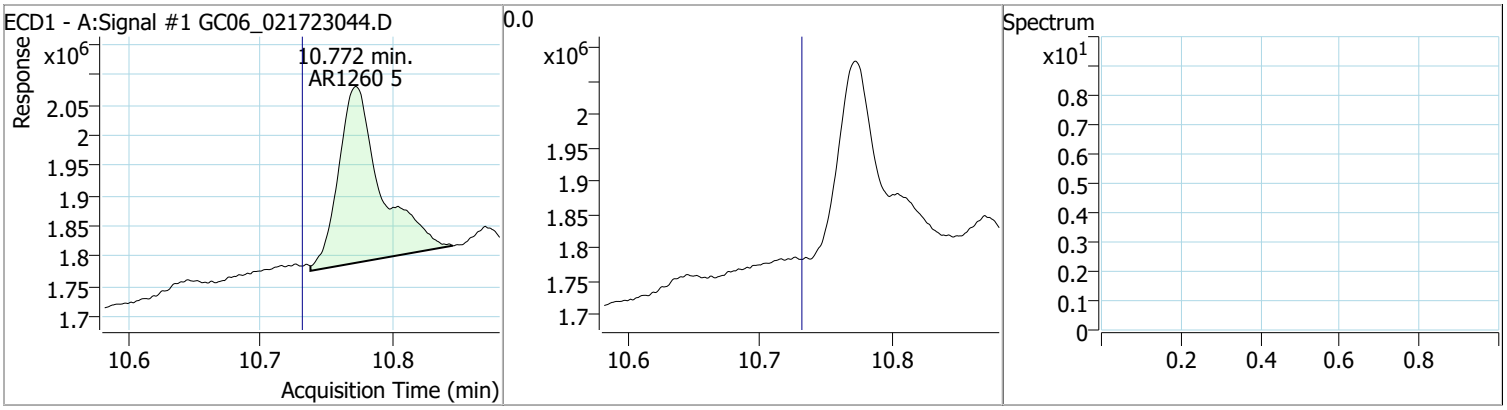
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	10.1767	10.14	-0.01	271863				



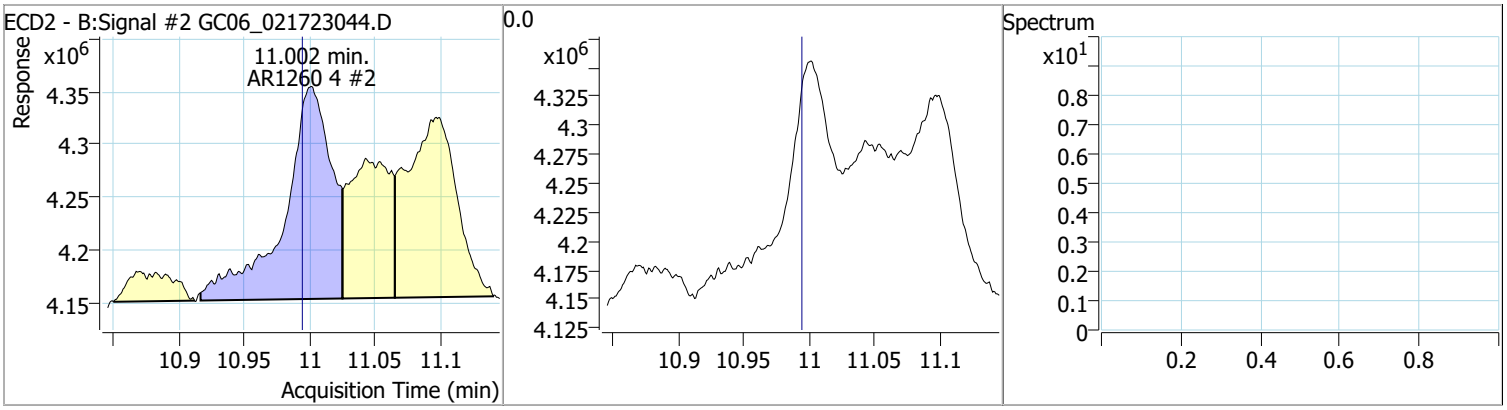
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	7.4029	10.50	-0.09	257822				



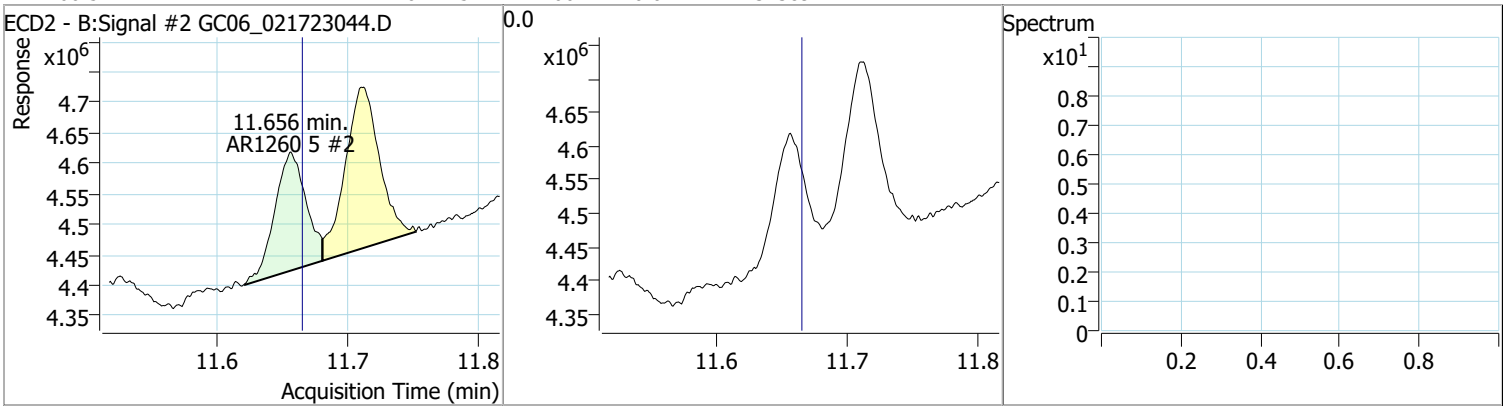
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	107.9668	10.77	0.04	650984				



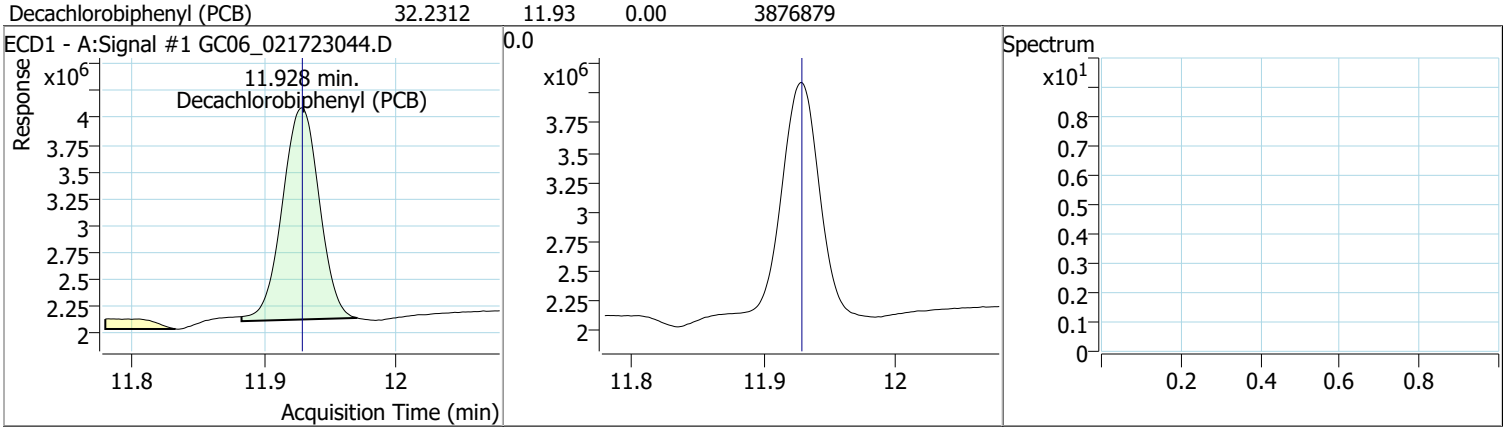
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	28.0415	11.00	0.00	512381				



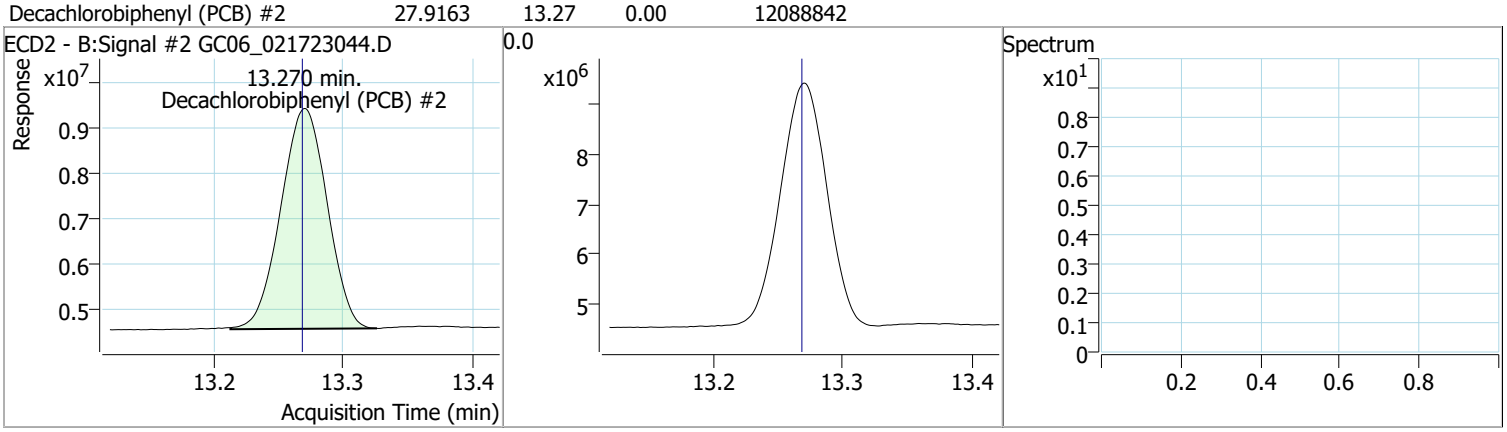
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	10.1425	11.66	-0.01	323891				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	32.2312	11.93	0.00	3876879				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	27.9163	13.27	0.00	12088842				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	479661-004	Client ID:	ARCH-C3E-EXT-1 TO 2-230216-P-WF
Seqnum:	453069687045.1	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_021723045	Batch:	307899	Time:	17-FEB-2023 22:09
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	453057263001	42.80	ND	0.66	43%	0.50		u
Aroclor-1016 Peak # 1	B	453057263001	59.42	0.59	0.49	19%			
Aroclor-1016 Peak # 2	B	453057263001	4.635	0.05	0.05	1%			
Aroclor-1016 Peak # 3	B	453057263001	142.0	1.42	0.44	106%			
Aroclor-1016 Peak # 4	B	453057263001	5.319	0.05	1.17	183%			
Aroclor-1016 Peak # 5	B	453057263001	2.658	0.03	1.16	191%			
Aroclor-1221	B			ND			0.50		u
Aroclor-1232	B			ND			0.50		u
Aroclor-1242	B			ND			0.50		u
Aroclor-1248	B			ND			0.50		u
Aroclor-1254	B			ND			0.50		u
Aroclor-1260	B	453057263001	22.83	ND	0.20	11%	0.50		u
Aroclor-1260 Peak # 1	B	453057263001	8.979	0.09	0.01	176%			
Aroclor-1260 Peak # 2	B	453057263001	18.41	0.18	0.07	93%			
Aroclor-1260 Peak # 3	B	453057263001	5.198	0.05	0.08	41%			
Aroclor-1260 Peak # 4	B	453057263001	57.02	0.57	0.38	39%			
Aroclor-1260 Peak # 5	B	453057263001	24.51	0.25	0.49	66%			
Aroclor-1262	B			ND			0.50		u
Aroclor-1268	B	453069687001	33.30	ND	ND	12%	0.50		?v u
Aroclor-1268 Peak # 1	B	453069687001	83.12	0.83	1.02	20%			
Aroclor-1268 Peak # 2	B	453069687001	58.29	0.58	0.36	47%			
Aroclor-1268 Peak # 3	B	453069687001	22.47	0.22	0.24	8%			
Aroclor-1268 Peak # 4	B	453069687001	1.792	0.02	0.13	151%			
Aroclor-1268 Peak # 5	B	453069687001	0.8463	0.01	0.14	177%			

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	453057263001	30.14	0.5000	0.3014	60	19-121	c- u
Decachlorobiphenyl (PCB)	B	453057263001	25.29	0.5000	0.2529	51	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	6659056	6954789	4.44
1-bromo-2-nitrobenzene (1268)	A	1543460	1553850	0.67

ISTD (CCV gc06_021723029)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	8293841	7202263	-13.16
1-bromo-2-nitrobenzene (PCB)	A	1858745	1571775	-15.44

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (1268)	A	4.19	4.19	0.00

ISTD (CCV gc06_021723029)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.20	4.19	-0.01

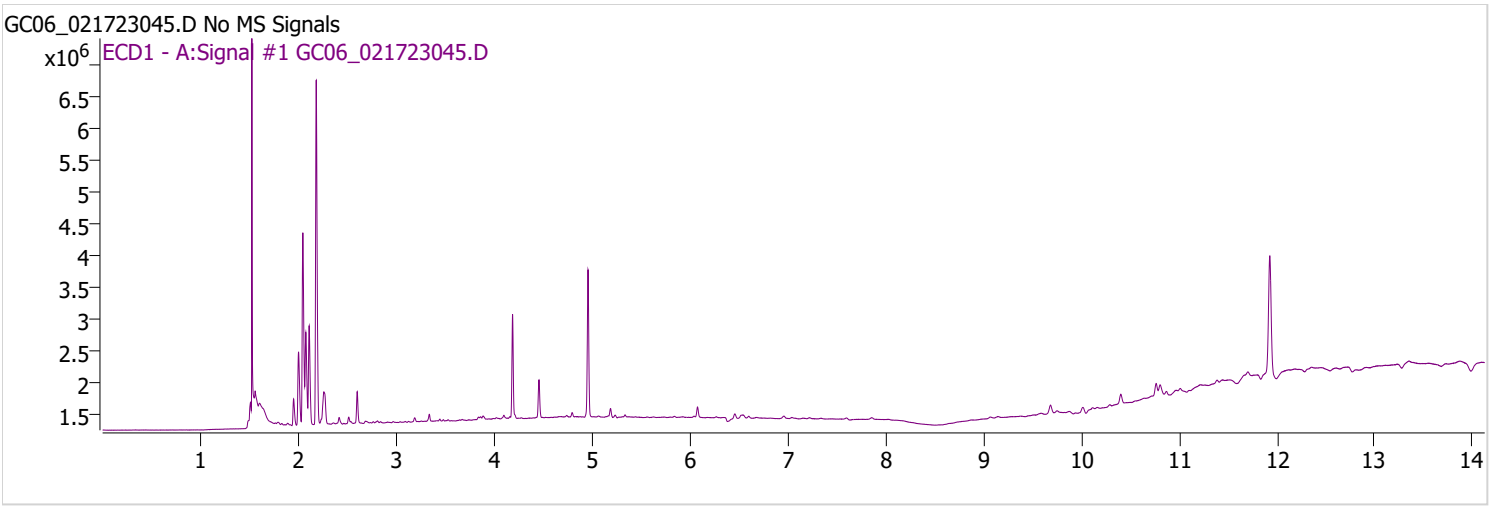
TRN 02/24/23 : Fix above

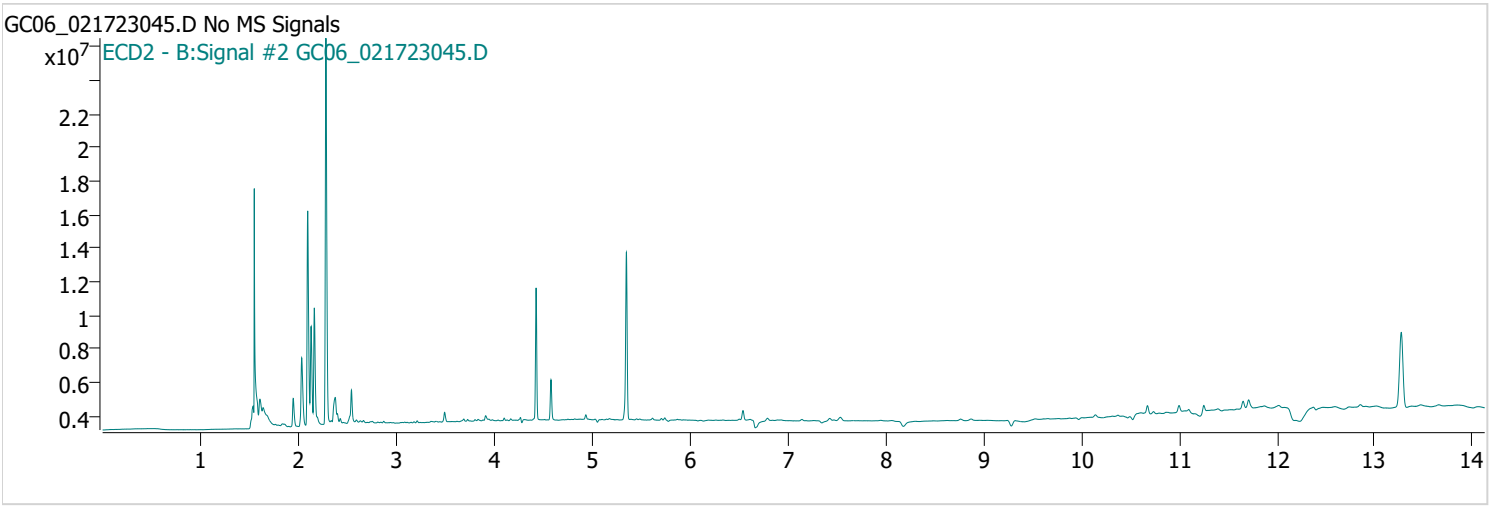
-=low bias ?=missing c=CCV u=use v=ICV out

Reviewed By: MES 02/20/23 *, TRN 02/24/23, LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723045.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 10:09:39 PM
Sample Name	479661-004, 307899, 1	Instrument	SVOA-GC06
Vial	24	Multiplier	1.00
DA Method File	PCB_AR1268_021723_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723AR1268.batch.bin	Last Calib Update	2/24/2023 2:50:23 PM
Ref Library			



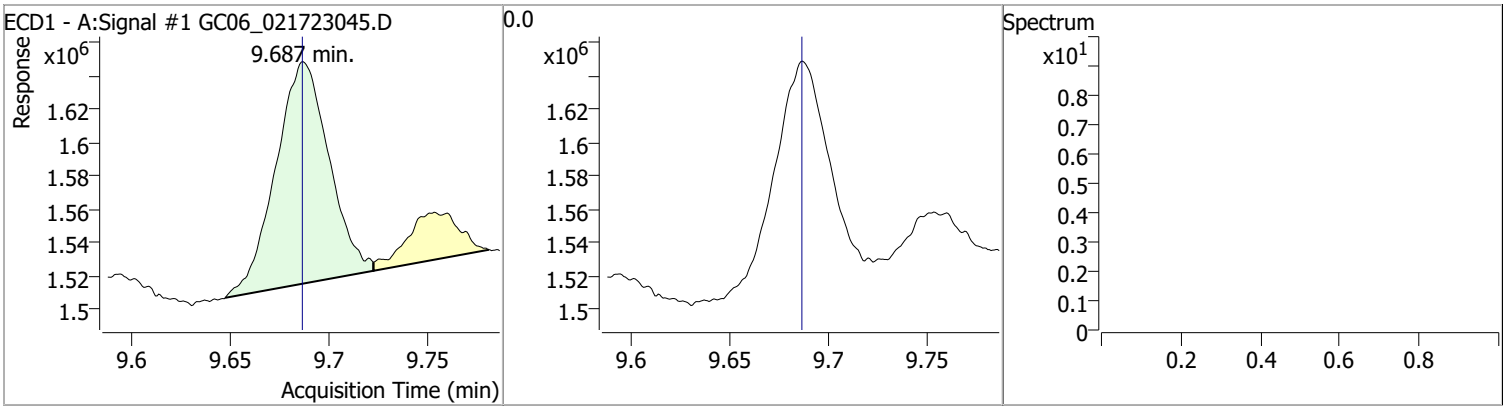


Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (1268)	4.190	0.0	1553849.991	20.0000	ng/ml	-0.001
M 1-bromo-2-nitrobenzene (1268) #2	4.431	0.0	6954789.398	20.0000	ng/ml	0.010
System Monitoring Compounds						
Target Compounds						**QValue**
T AR1268 1	9.687	0.0	251815.942	101.6130	ng/ml	100
T AR1268 2	10.018	0.0	114291.072	35.9257	ng/ml	100
T Aroclor-1268	10.638	0.0	268314.331	19.9645	ng/ml	
T AR1268 1 #2	10.678	0.0	738547.291	83.1204	ng/ml	100
T AR1268 3	10.766	0.0	329022.942	24.2273	ng/ml	100
T AR1268 2 #2	11.000	0.0	649046.355	58.2887	ng/ml	100
T AR1268 4	11.014	0.0	139895.265	12.9463	ng/ml	100
T AR1268 3 #2	11.711	0.0	1007269.695	22.4713	ng/ml	100
T AR1268 5	11.705	0.0	506546.433	13.6345	ng/ml	100
T Aroclor-1268 #2	11.674	0.0	511720.328	11.7153	ng/ml	

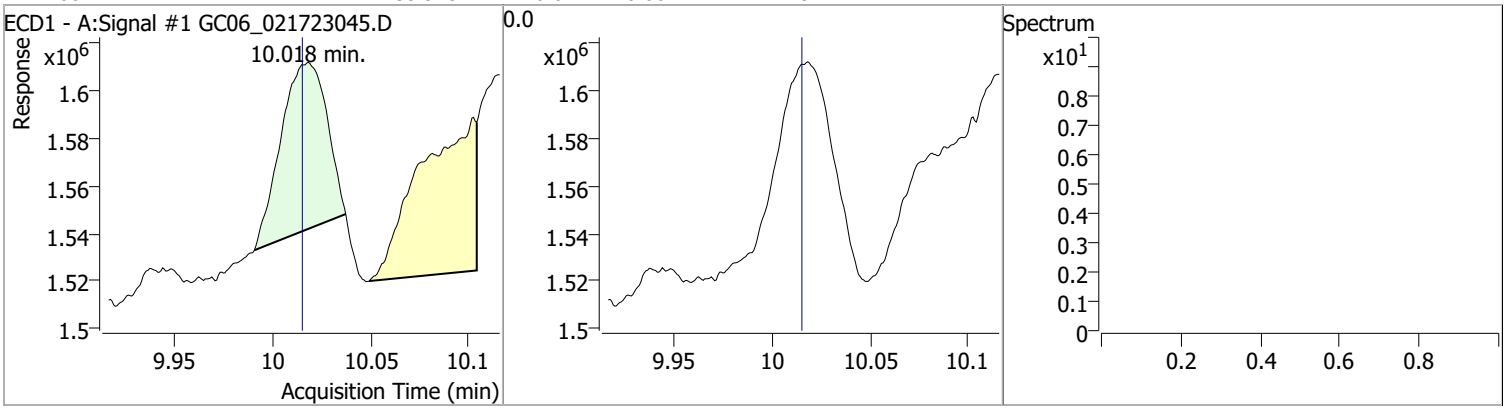
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1268 4 #2	12.072	0.0	64009.972	1.7923	ng/ml	100
T AR1268 5 #2	12.909	0.0	99728.328	0.8463	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

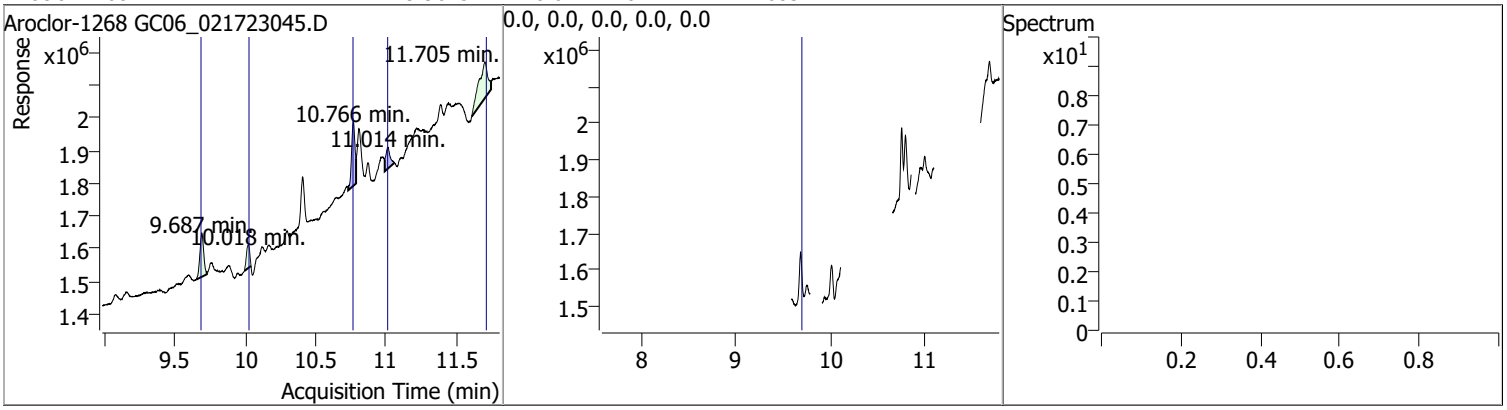
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 1	101.6130	9.69	0.00	251816				



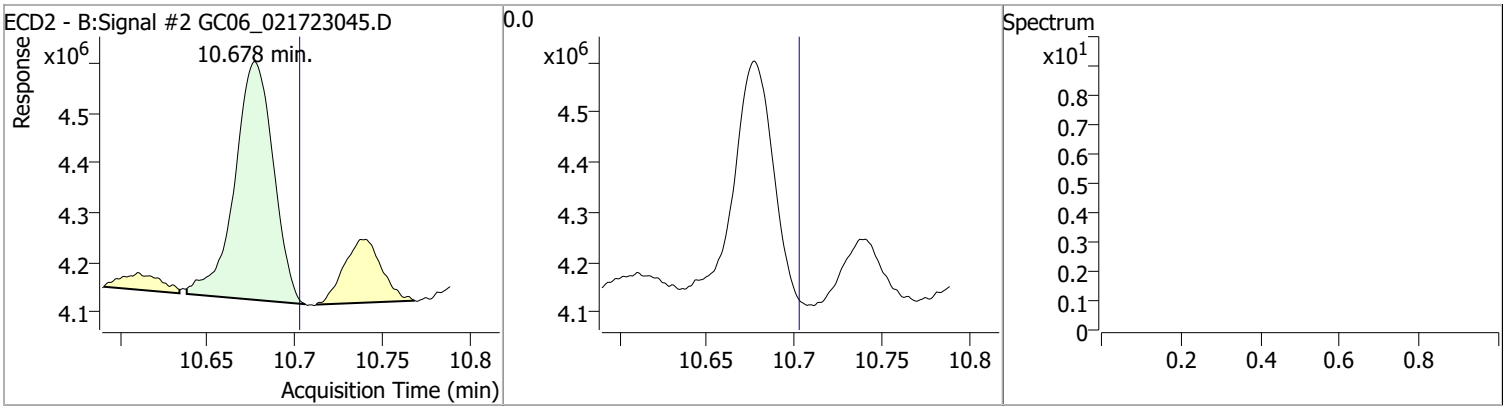
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 2	35.9257	10.02	0.00	114291				



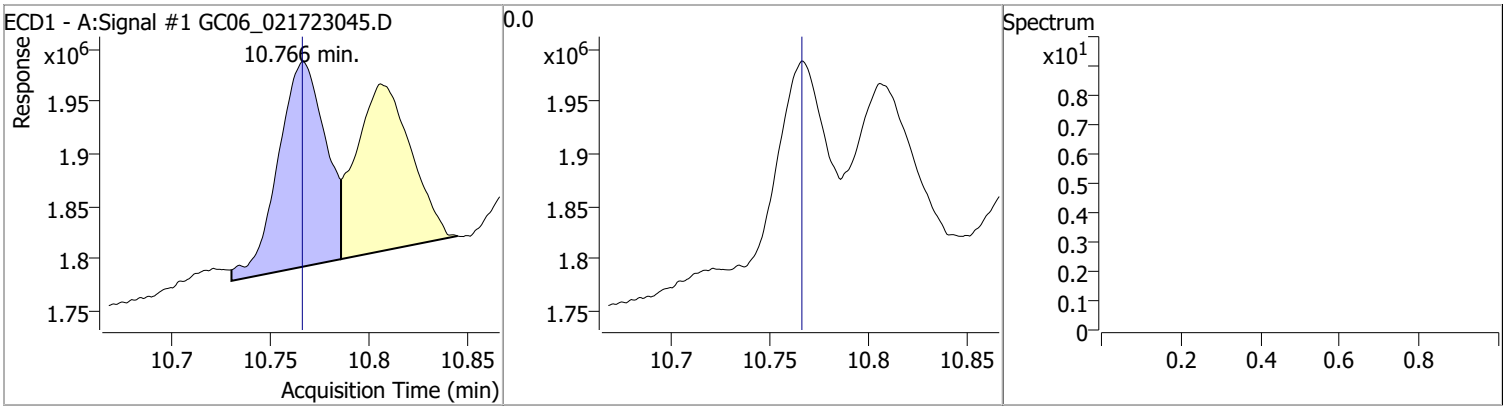
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Aroclor-1268	19.9645	10.64	0.24	268314				



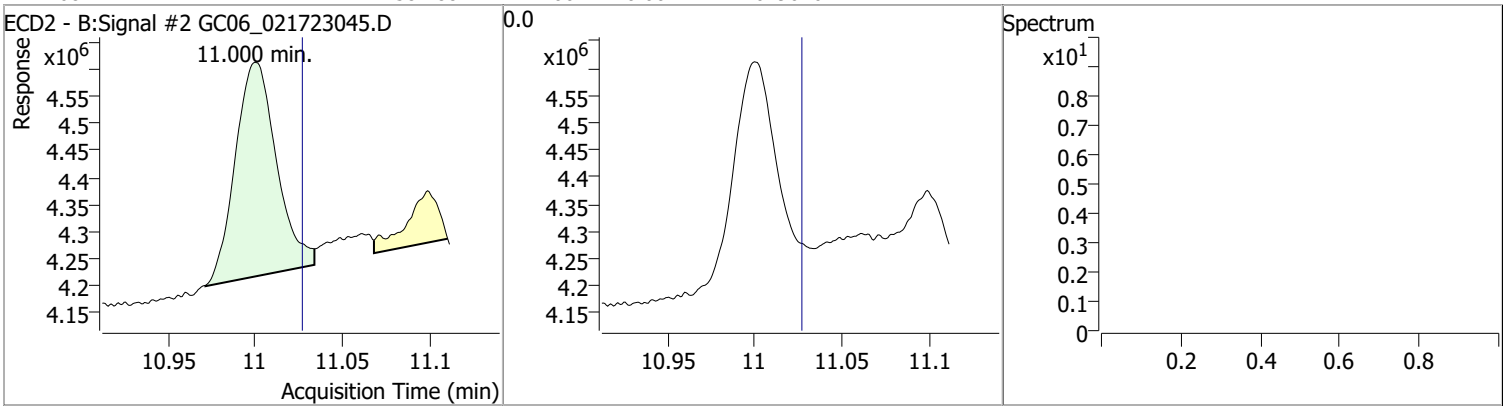
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 1 #2	83.1204	10.68	0.00	738547				



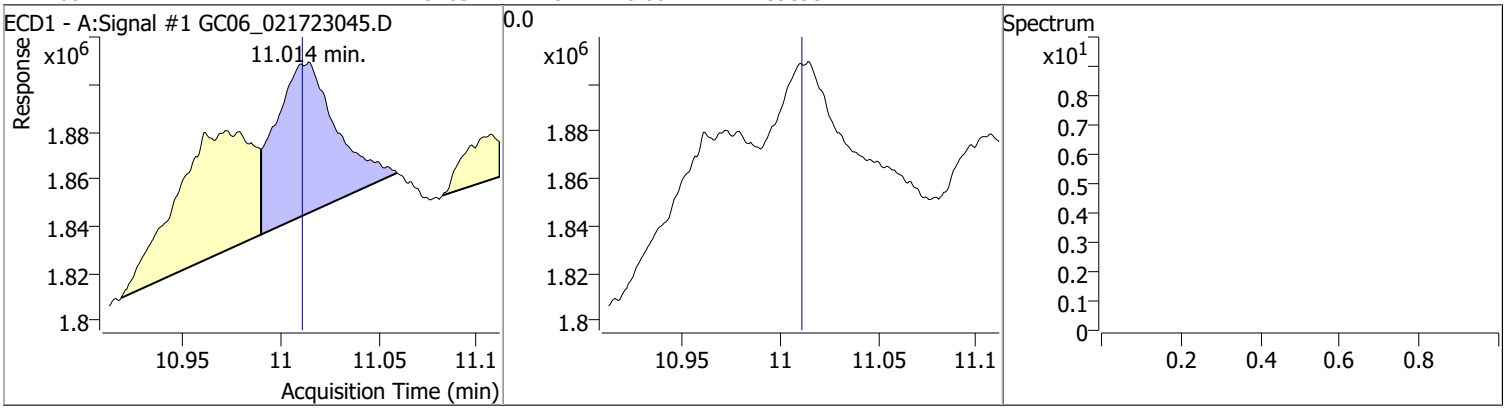
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 3	24.2273	10.77	0.00	329023				



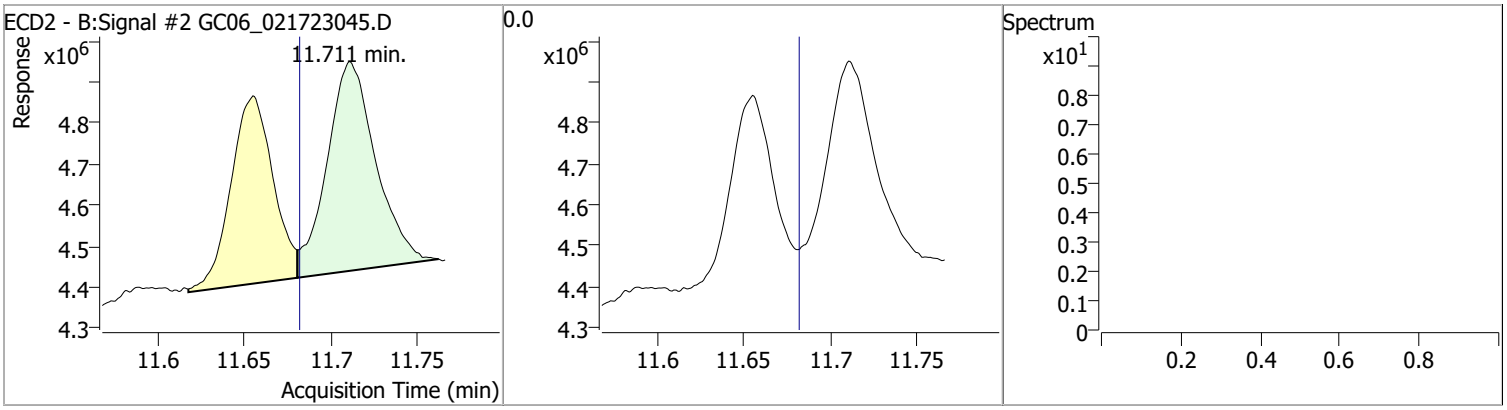
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 2 #2	58.2887	11.00	0.00	649046				



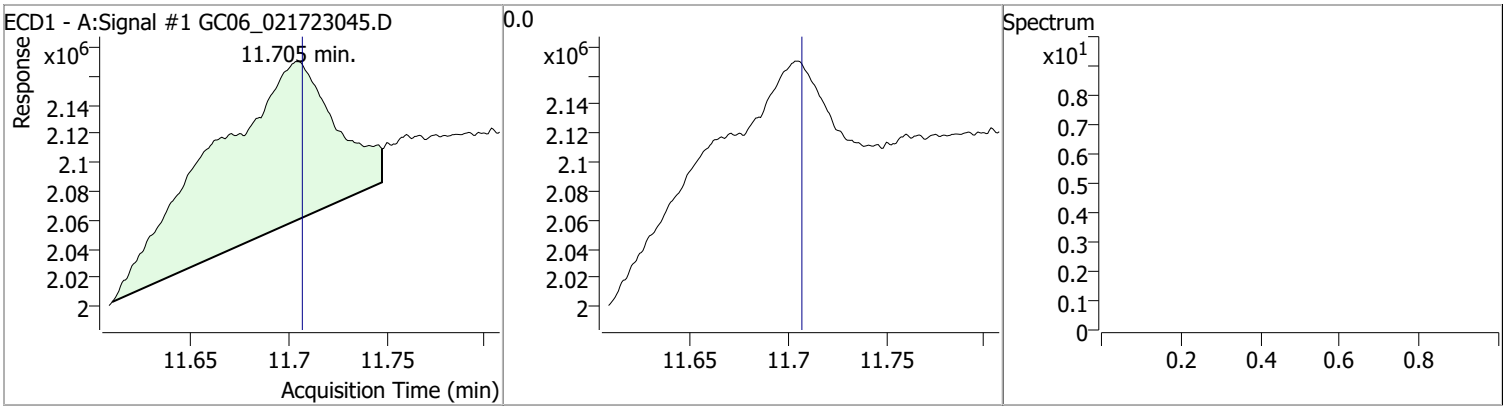
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 4	12.9463	11.01	0.00	139895				



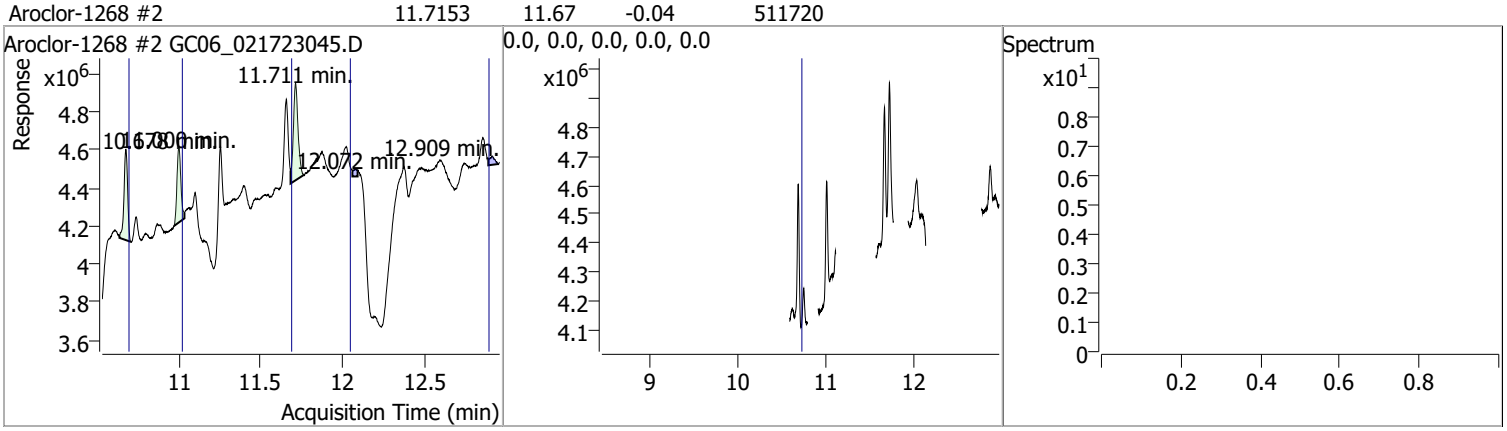
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 3 #2	22.4713	11.71	0.05	1007270				



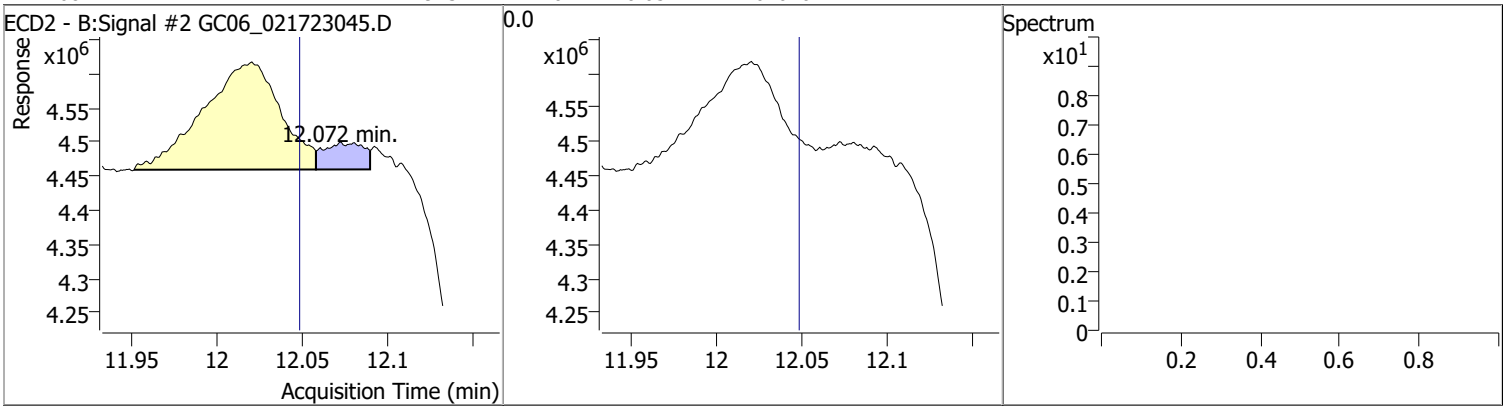
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 5	13.6345	11.71	0.00	506546				



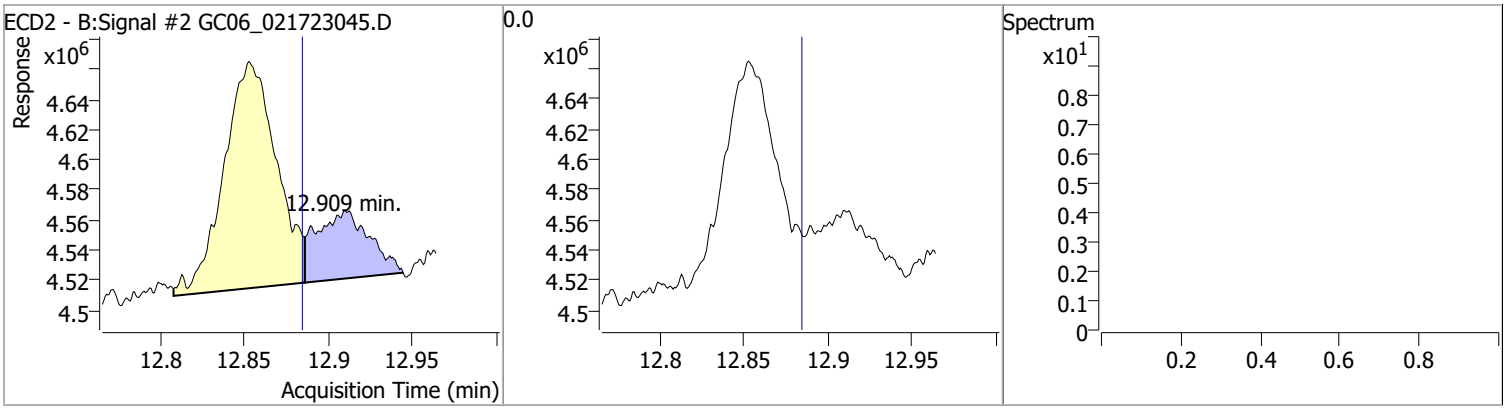
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Aroclor-1268 #2	11.7153	11.67	-0.04	511720				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 4 #2	1.7923	12.07	0.05	64010				



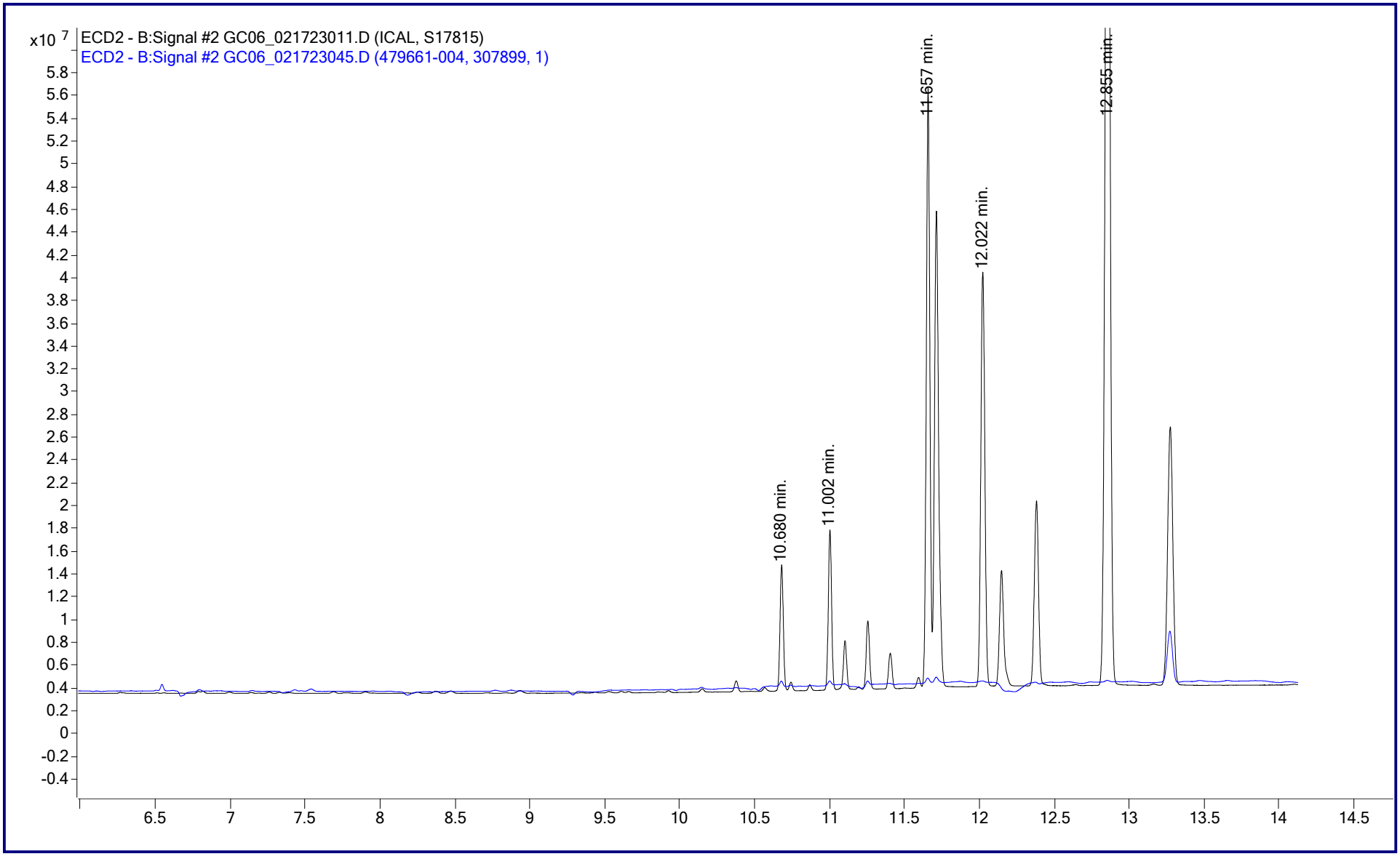
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 5 #2	0.8463	12.91	0.05	99728				



Chromatogram Information Window

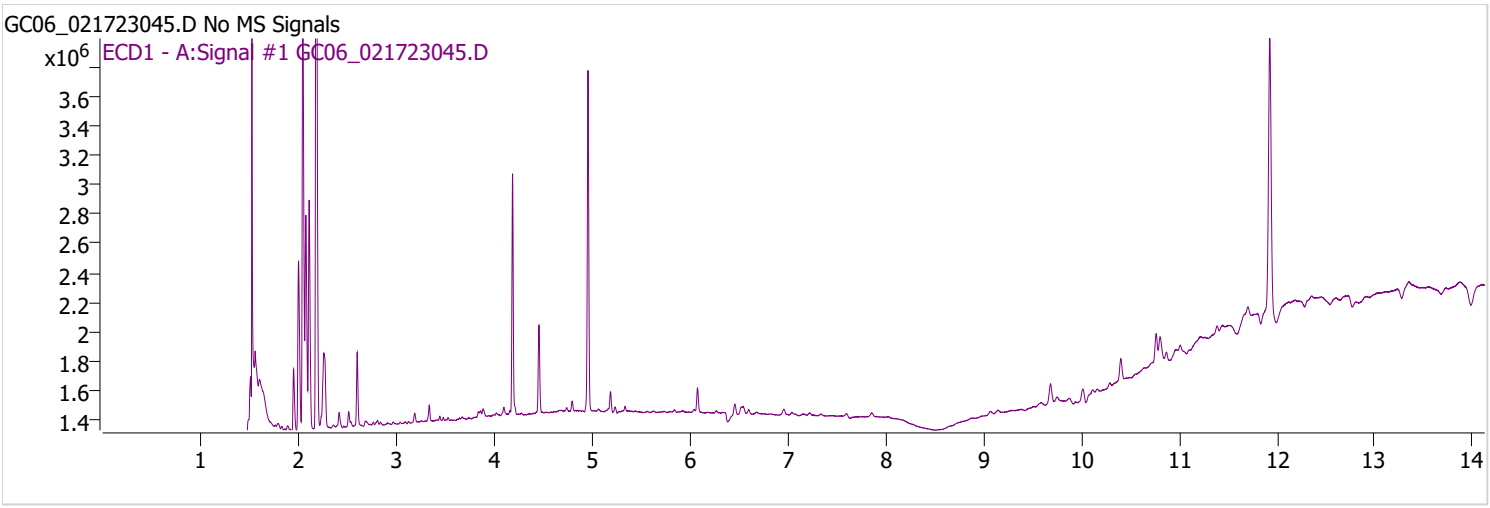
Agilent Technologies

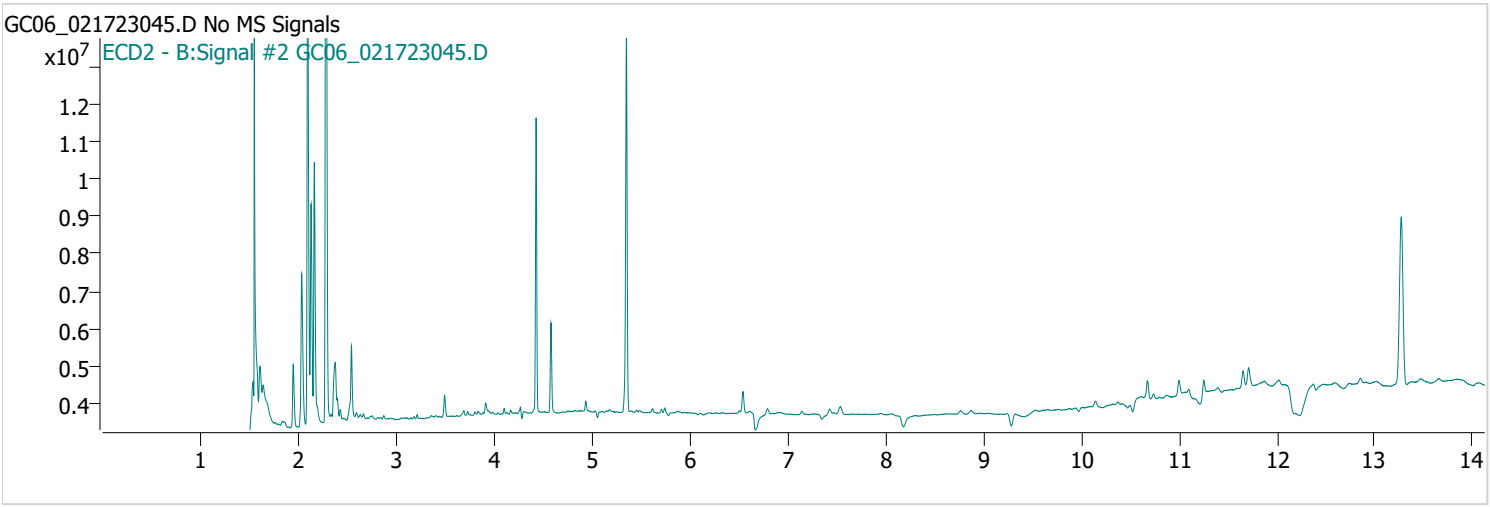
Data Path	C:\MassHunter\GCMS\1\data\GC06_021723
Data File	GC06_021723011.D
Acq Operator	
Acq. Date-Time	2/17/2023 12:07 PM
Instrument Name	SVOA-GC06



Quantitation Results Report (Not Reviewed)

Data File	GC06_021723045.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 10:09:39 PM
Sample Name	479661-004, 307899, 1	Instrument	SVOA-GC06
Vial	24	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
Ref Library			



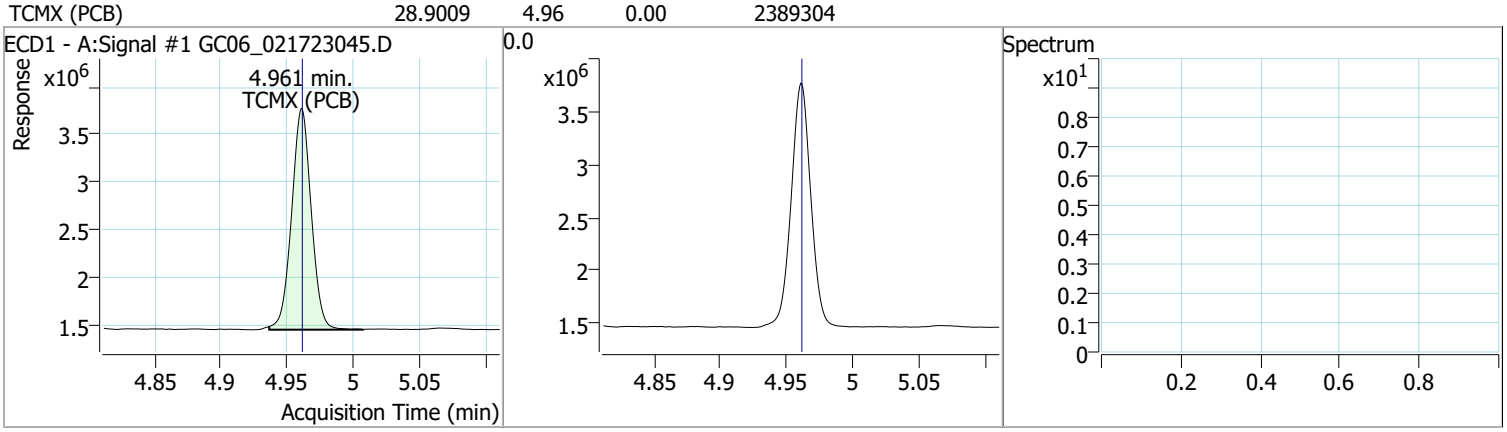


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.190	0.0	1571774.809	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.431	0.0	7202262.860	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	4.961	0.0	2389304.153	28.9009	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 144.50%			
S TCMX (PCB) #2	5.353	0.0	11022274.515	30.1377	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 150.69%		*	
S Decachlorobiphenyl (PCB)	11.928	0.0	3878624.226	32.3438	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 161.72%		*	
S Decachlorobiphenyl (PCB) #2	13.271	0.0	10997091.046	25.2920	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 126.46%			
Target Compounds							QValue

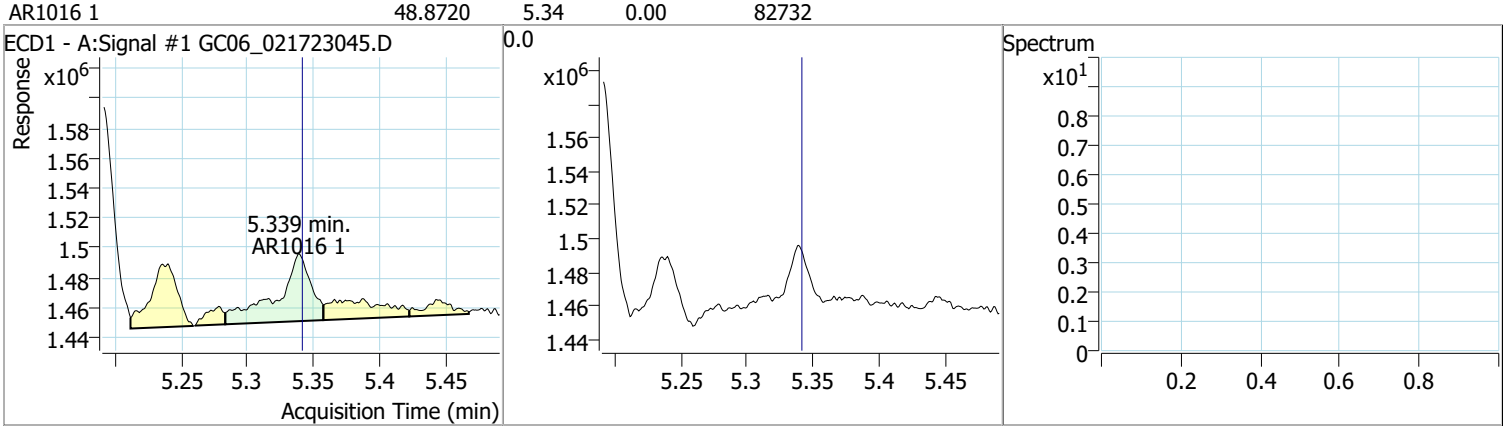
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.339	0.0	82732.313	48.8720	ng/ml	100
T AR1016 2	5.628	0.0	21110.842	4.5763	ng/ml	100
T AR1016 1 #2	5.873	0.0	447131.836	59.4213	ng/ml	100
T AR1016 3	6.079	0.0	215148.964	43.7916	ng/ml	100
T AR1016 4	6.274	0.0	442938.823	116.9531	ng/ml	100
T AR1016 2 #2	6.266	0.0	81512.117	4.6348	ng/ml	100
T AR1016 5	6.461	0.0	213541.980	115.6490	ng/ml	100
T AR1016 3 #2	6.793	0.0	3055044.930	141.9697	ng/ml	100
T AR1016 4 #2	6.935	0.0	81625.749	5.3195	ng/ml	100
T AR1016 5 #2	7.678	0.0	33044.386	2.6576	ng/ml	100
T AR1260 1	8.548	0.0	3702.227	0.5819	ng/ml	100
T AR1260 2	9.074	0.0	59550.215	6.7121	ng/ml	100
T AR1260 3	9.593	0.0	78706.233	7.8621	ng/ml	100
T AR1260 1 #2	9.878	0.0	204102.820	8.9796	ng/ml	100
T AR1260 4	10.018	0.0	203180.770	38.4811	ng/ml	100
T AR1260 2 #2	10.145	0.0	493953.883	18.4152	ng/ml	100
T AR1260 3 #2	10.494	0.0	181777.730	5.1982	ng/ml	100
T AR1260 5	10.766	0.0	293412.556	48.8110	ng/ml	100
T AR1260 4 #2	11.000	0.0	1046187.844	57.0230	ng/ml	100
T AR1260 5 #2	11.655	0.0	786030.665	24.5142	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

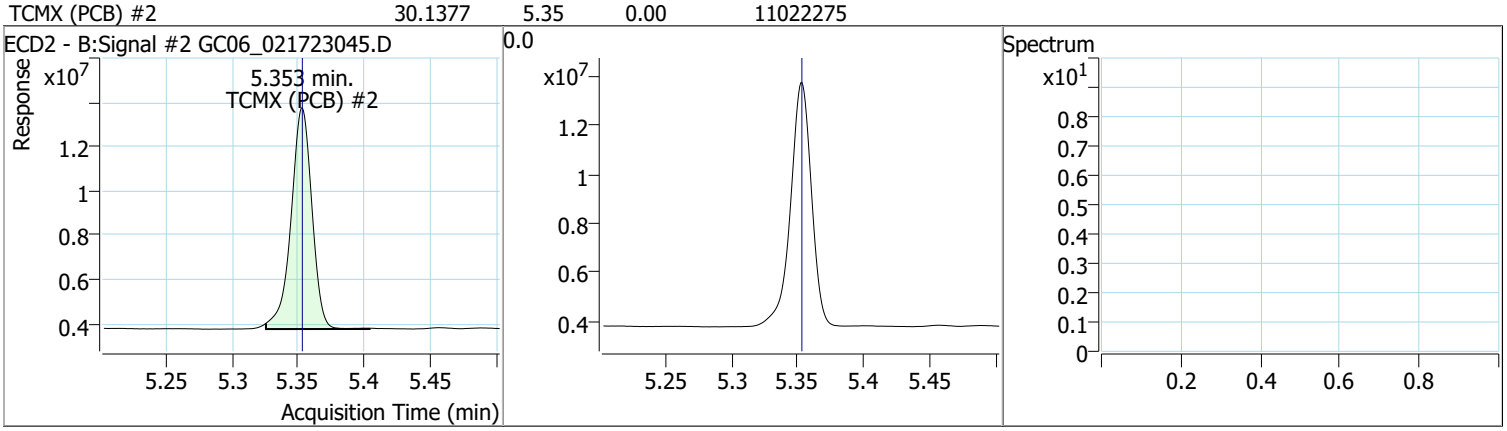
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	28.9009	4.96	0.00	2389304				



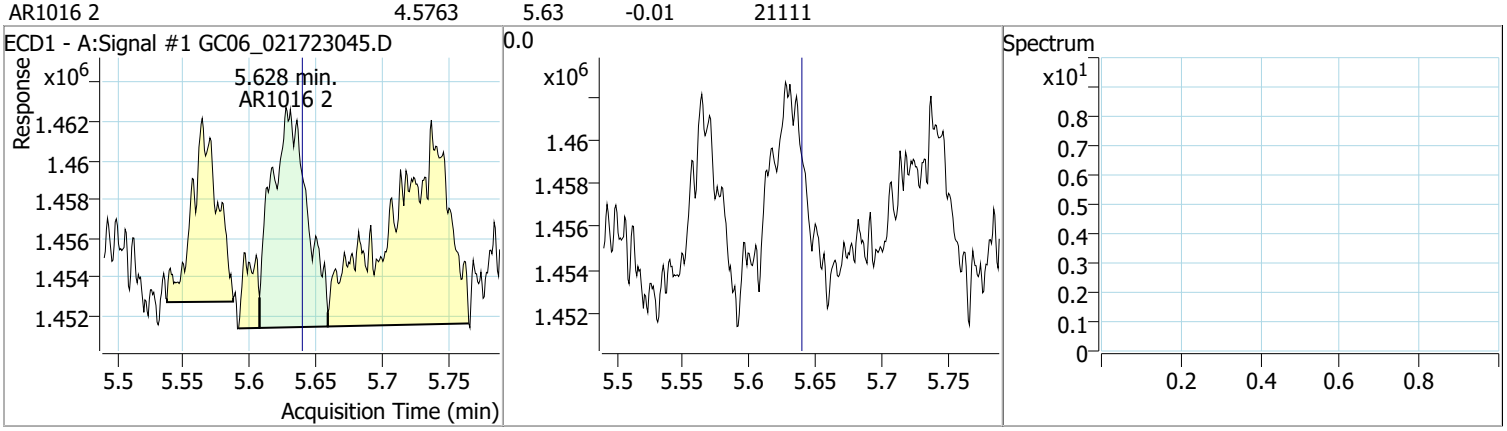
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	48.8720	5.34	0.00	82732				



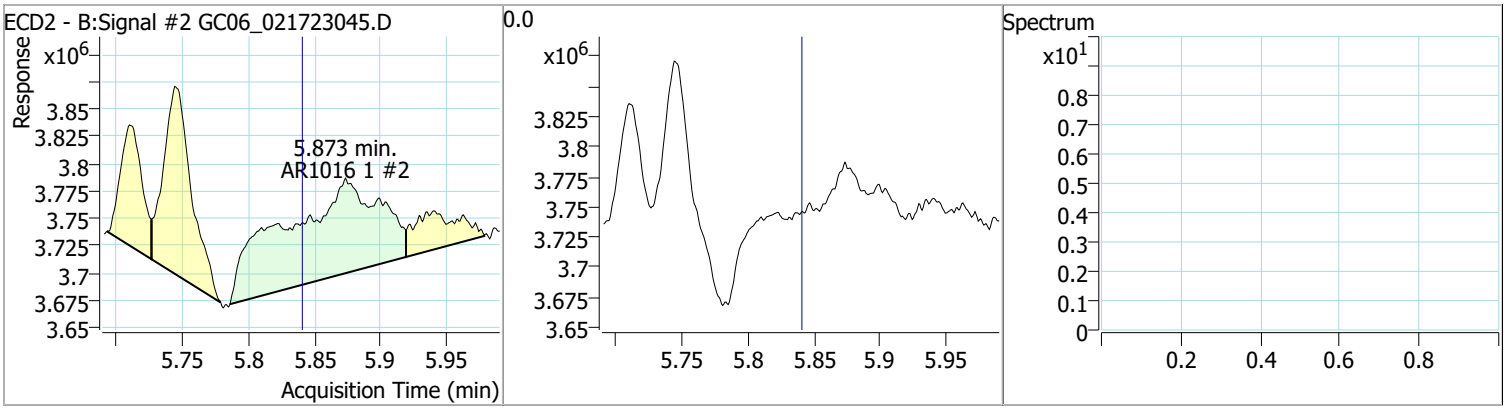
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	30.1377	5.35	0.00	11022275				



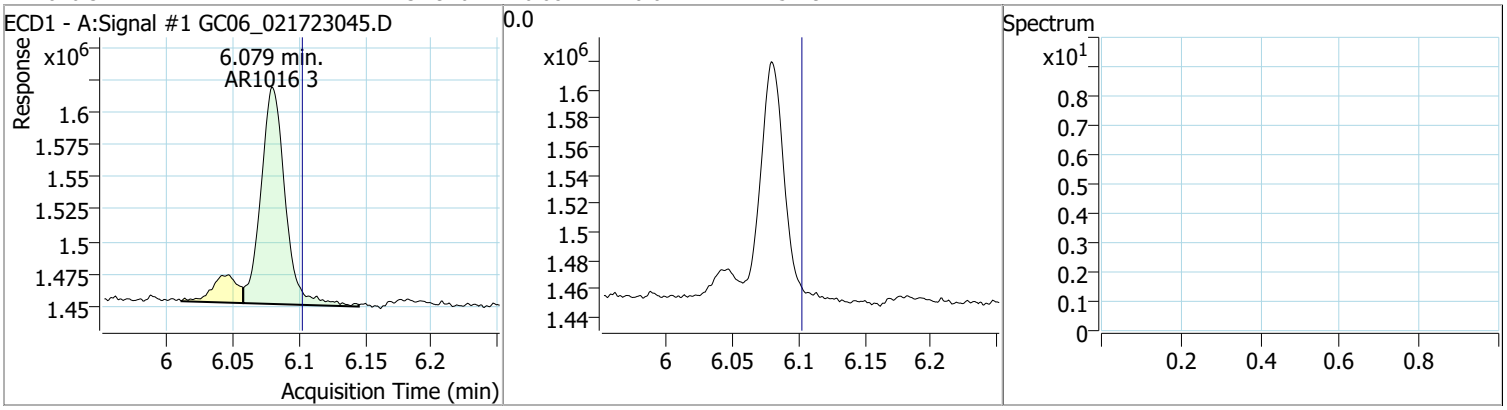
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	4.5763	5.63	-0.01	21111				



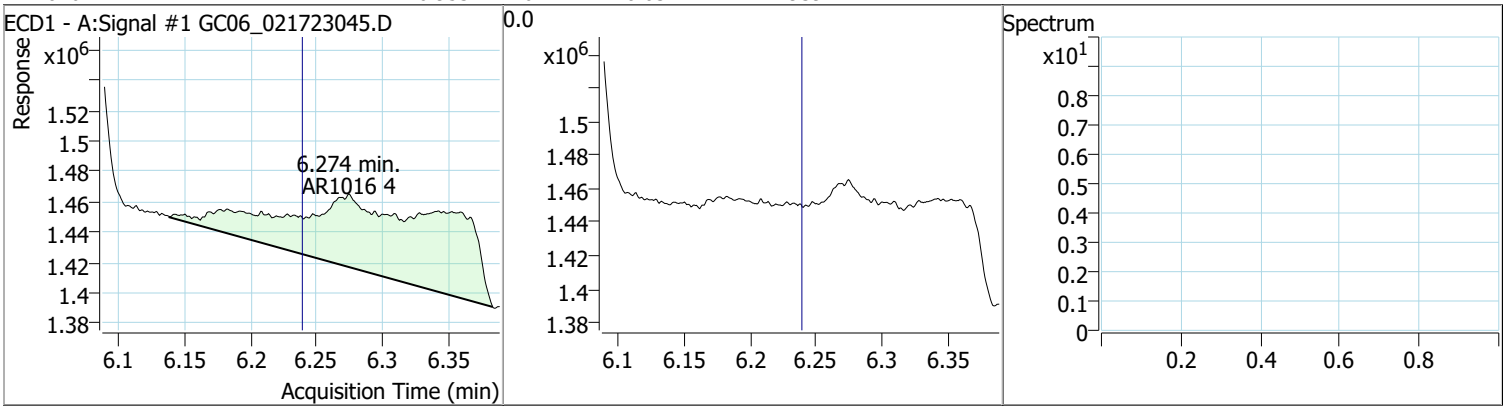
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	59.4213	5.87	0.03	447132				



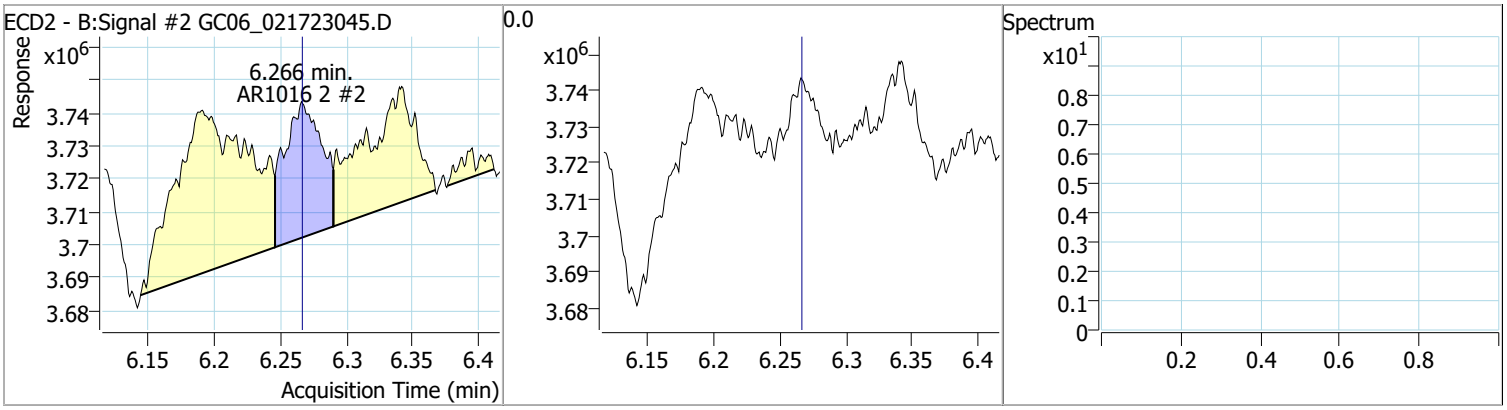
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	43.7916	6.08	-0.02	215149				



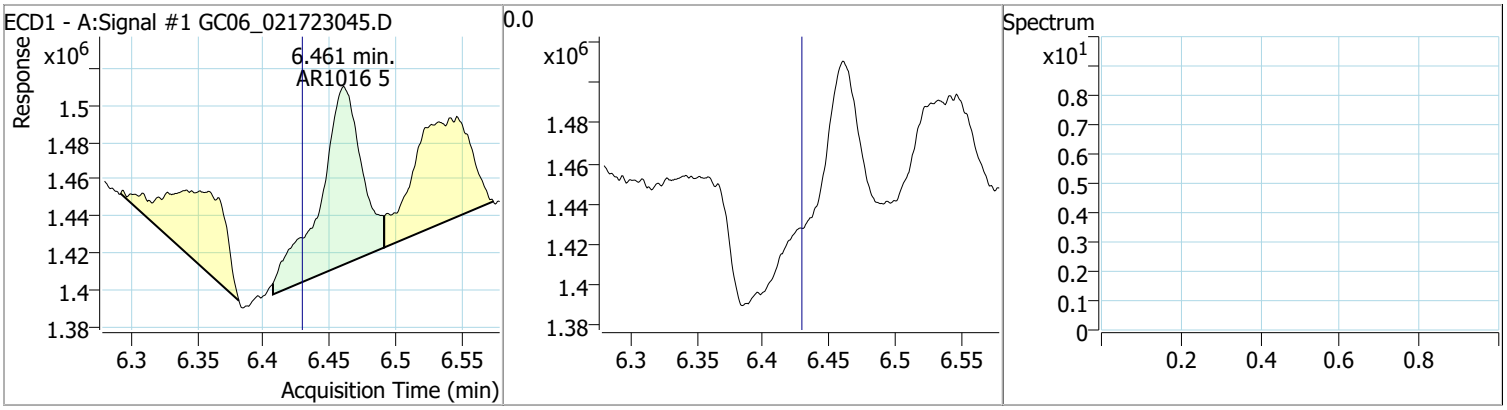
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	116.9531	6.27	0.03	442939				



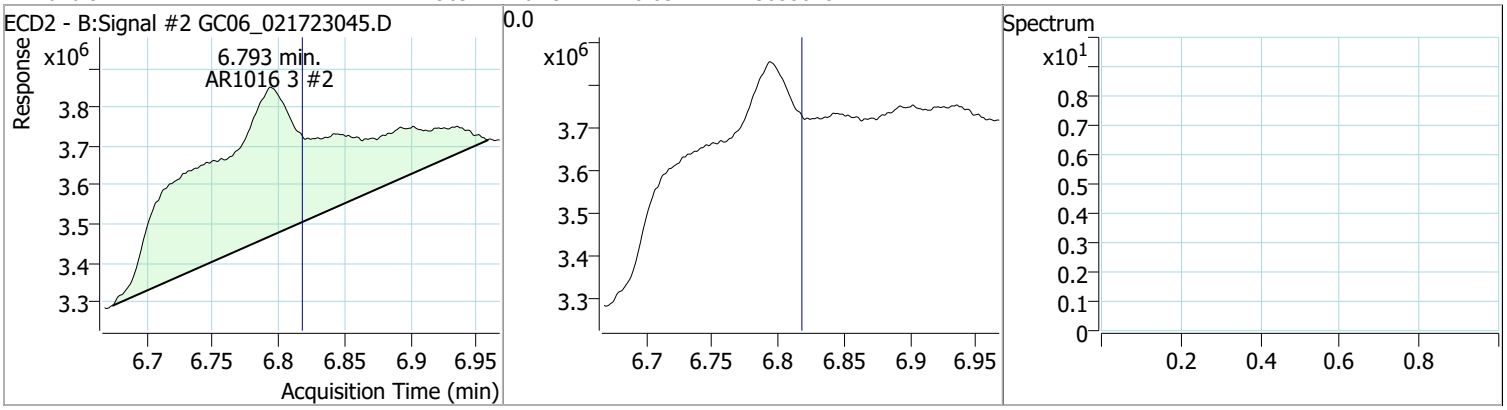
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	4.6348	6.27	0.00	81512				



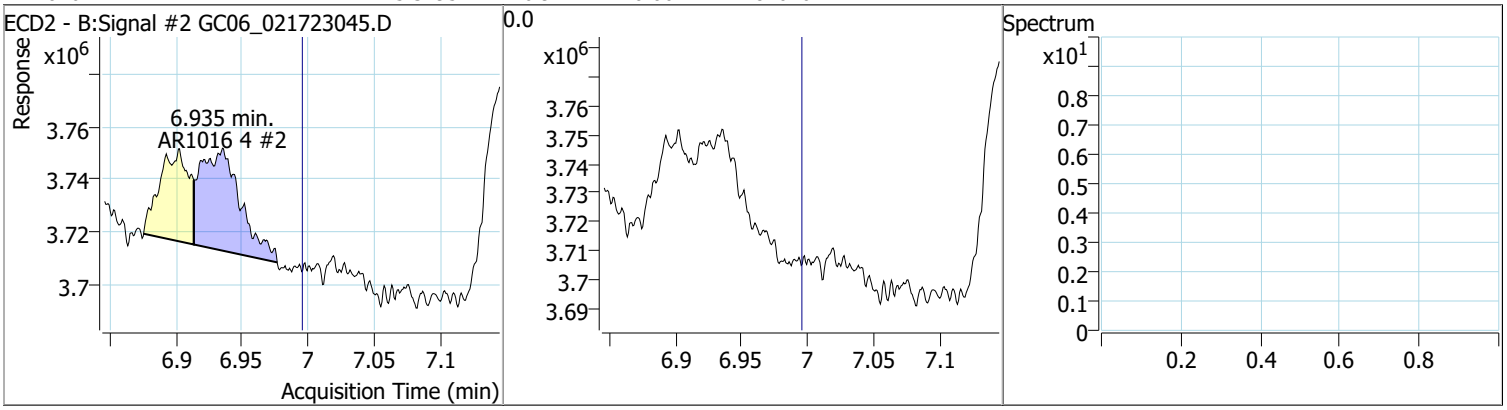
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	115.6490	6.46	0.03	213542				



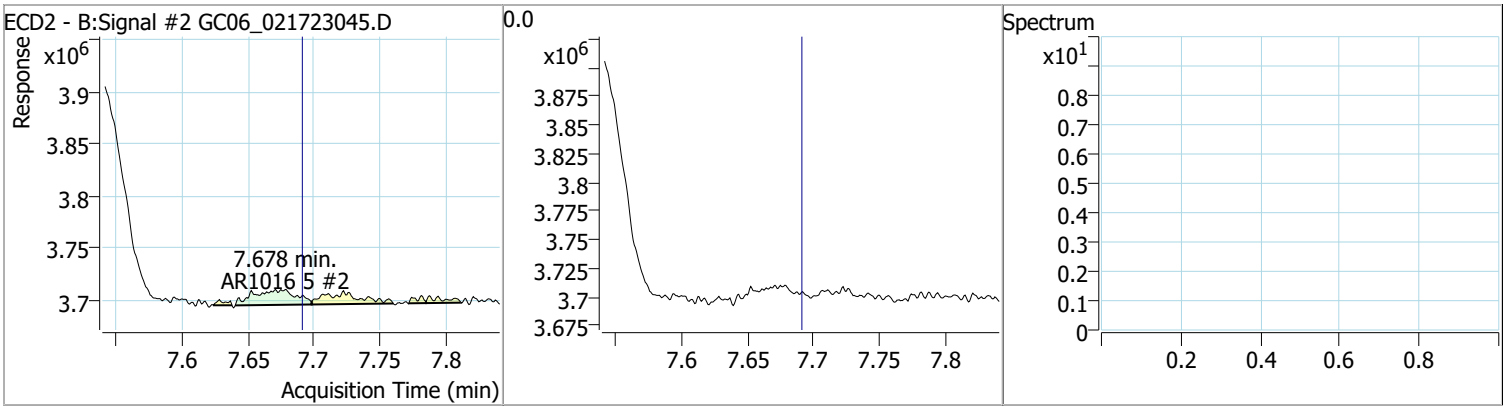
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	141.9697	6.79	-0.03	3055045				



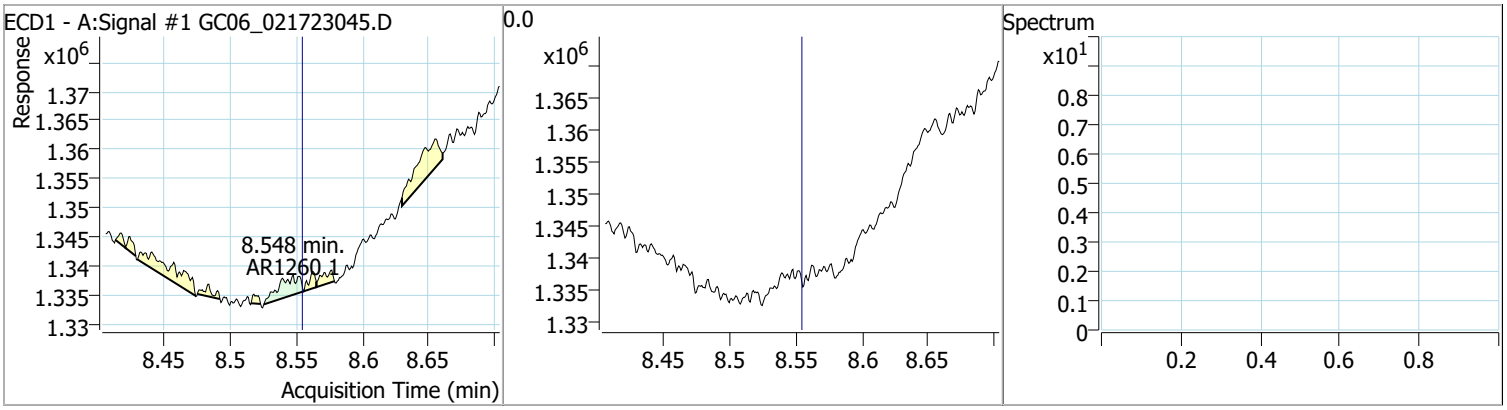
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AR1016 4 #2	5.3195	6.94	-0.06	81626				



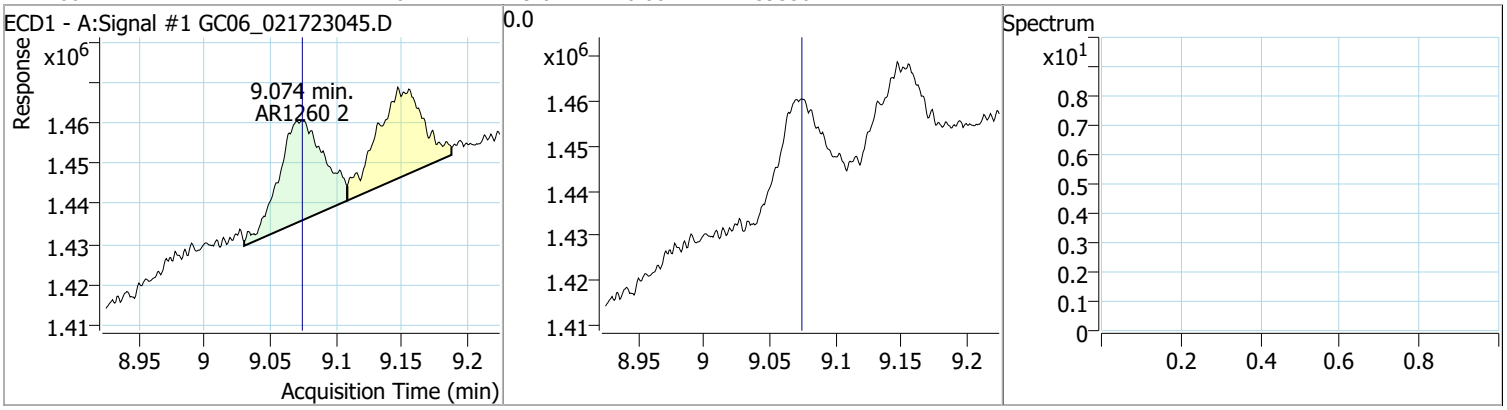
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AR1016 5 #2	2.6576	7.68	-0.01	33044				



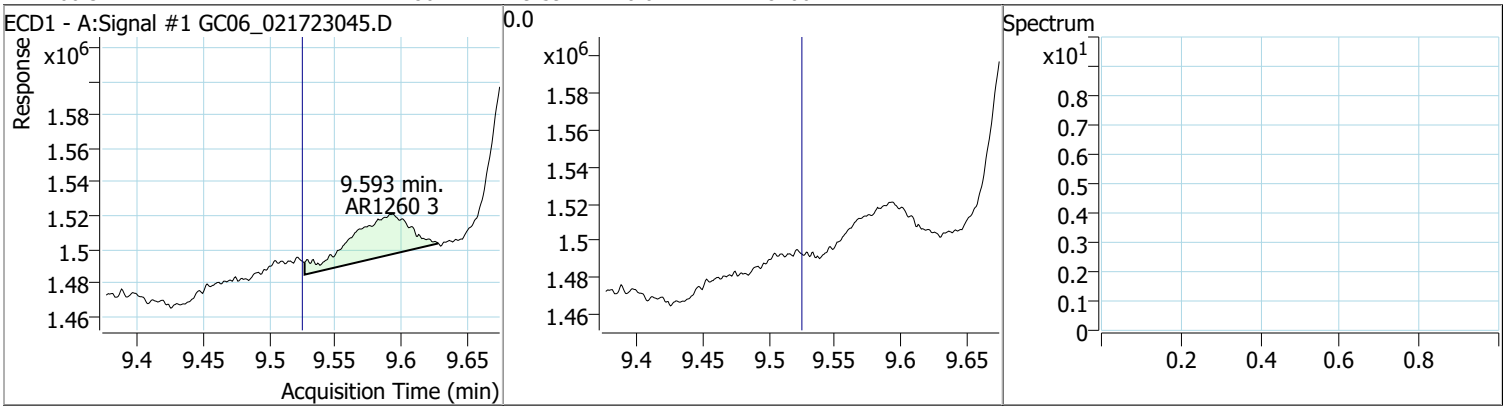
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	0.5819	8.55	-0.01	3702				



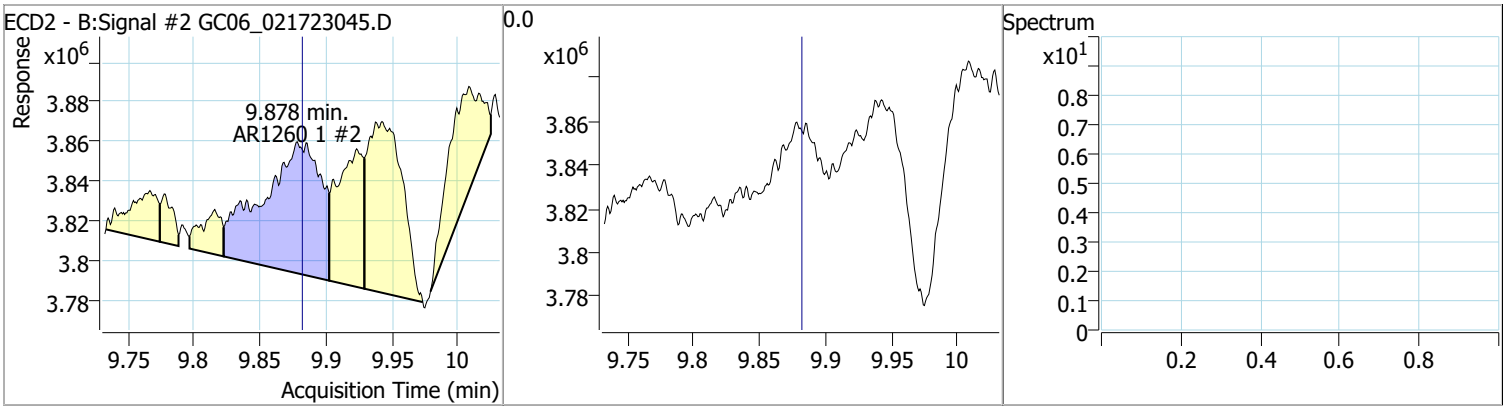
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	6.7121	9.07	0.00	59550				



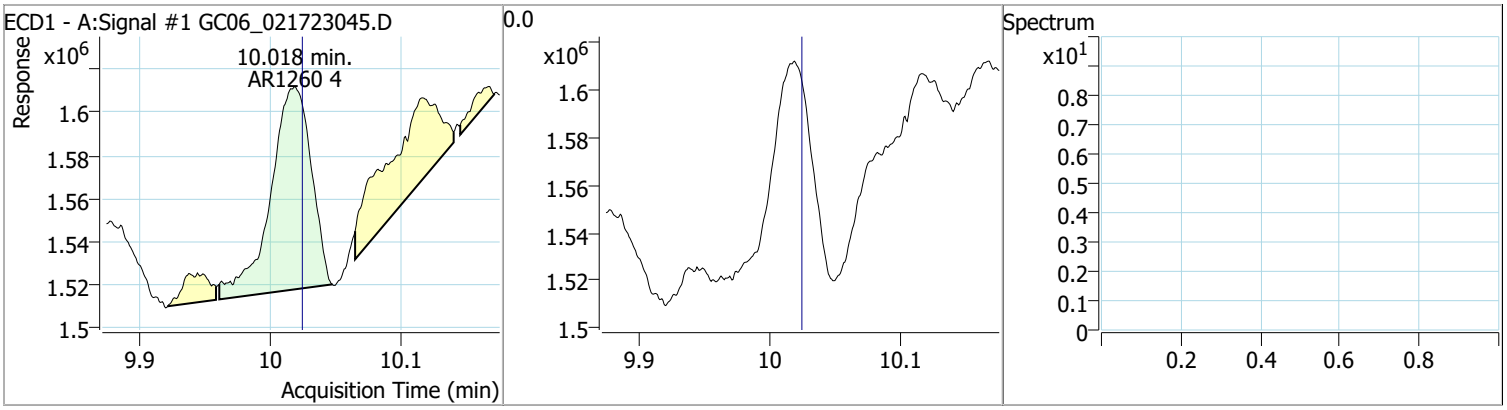
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	7.8621	9.59	0.07	78706				



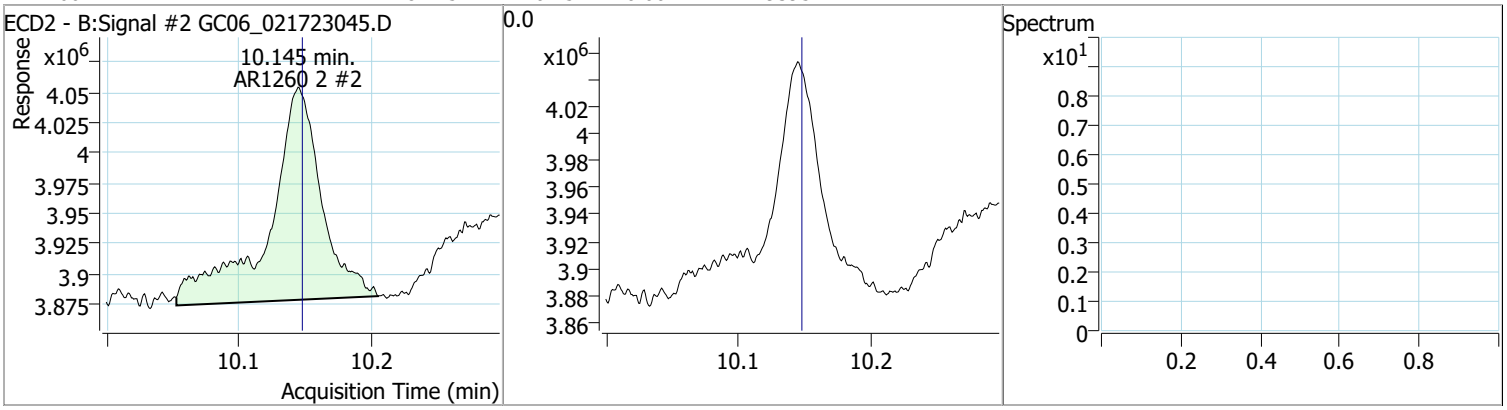
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	8.9796	9.88	0.00	204103				



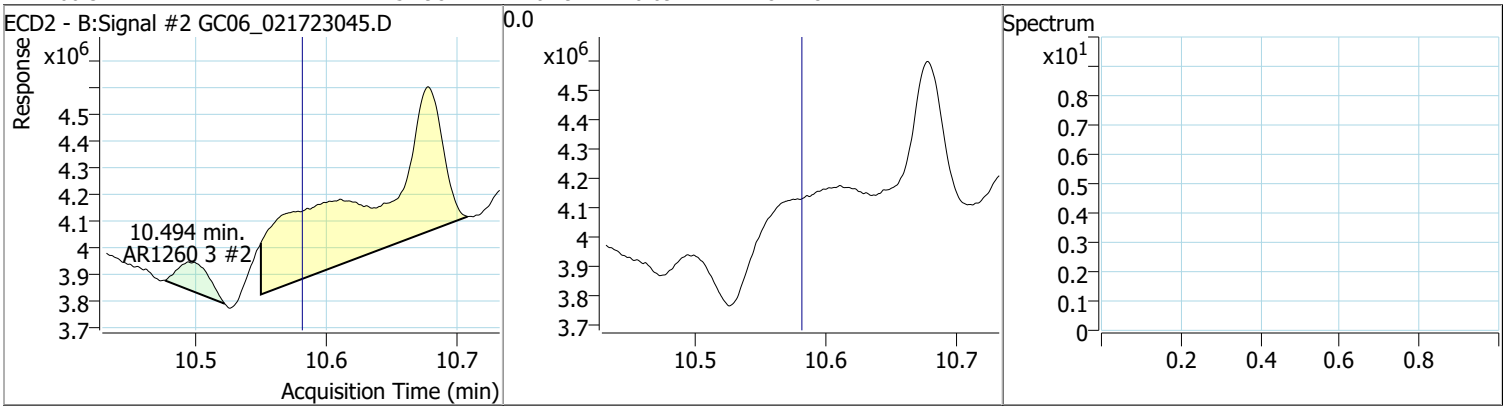
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	38.4811	10.02	-0.01	203181				



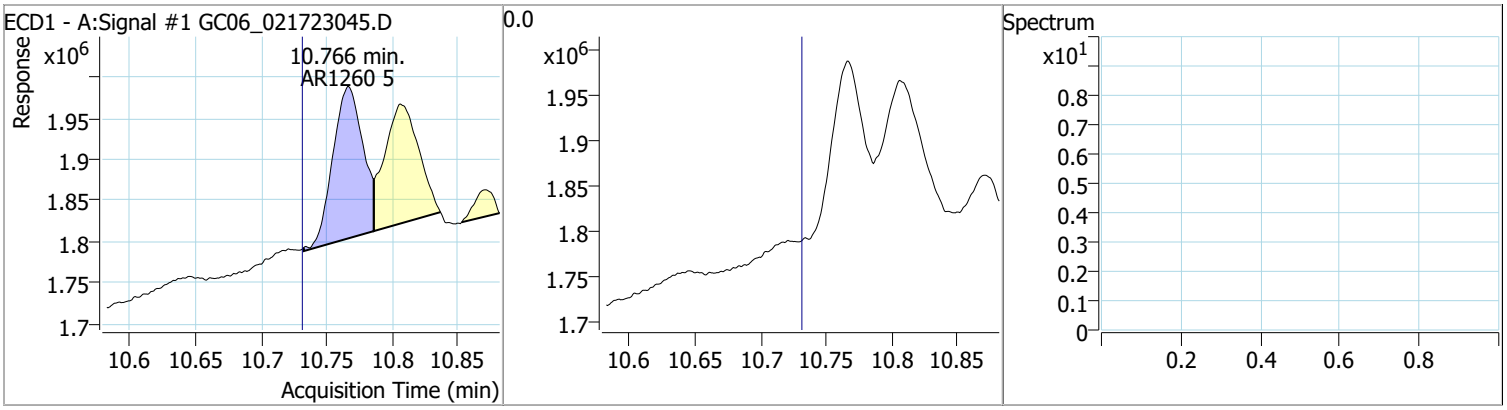
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	18.4152	10.15	0.00	493954				



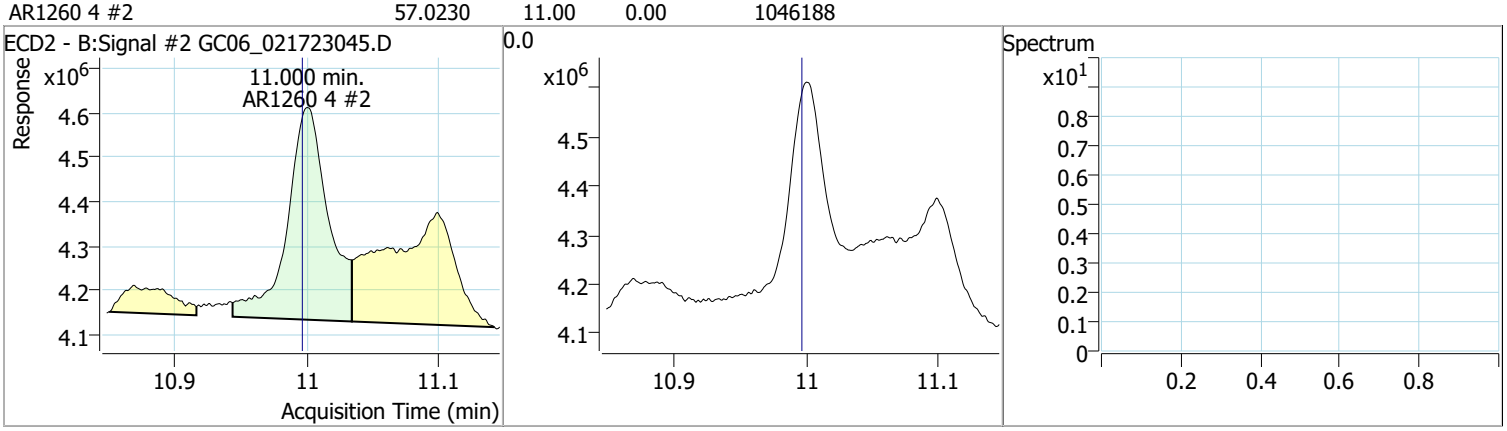
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	5.1982	10.49	-0.09	181778				



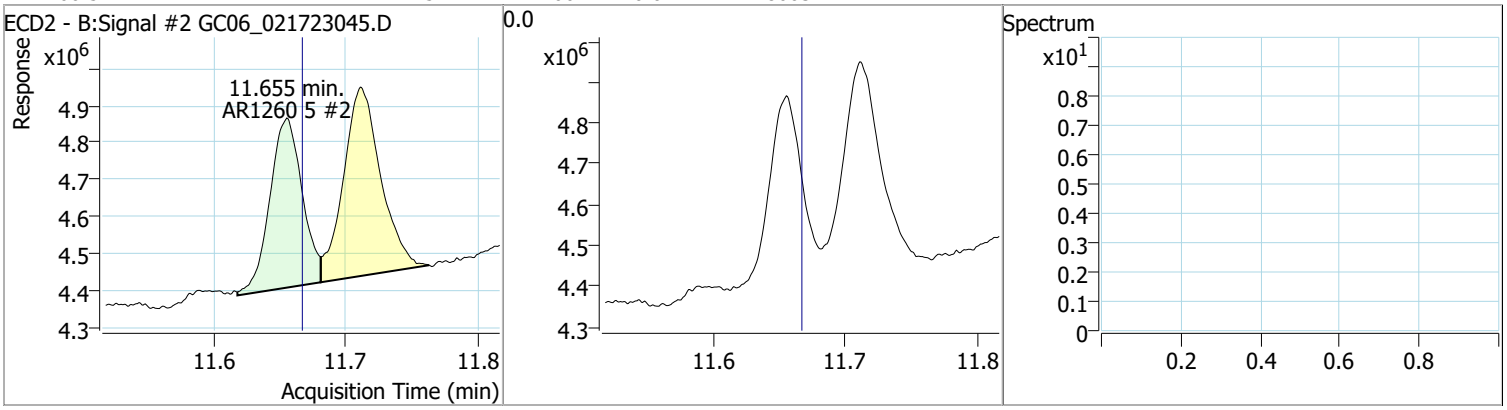
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	48.8110	10.77	0.03	293413				



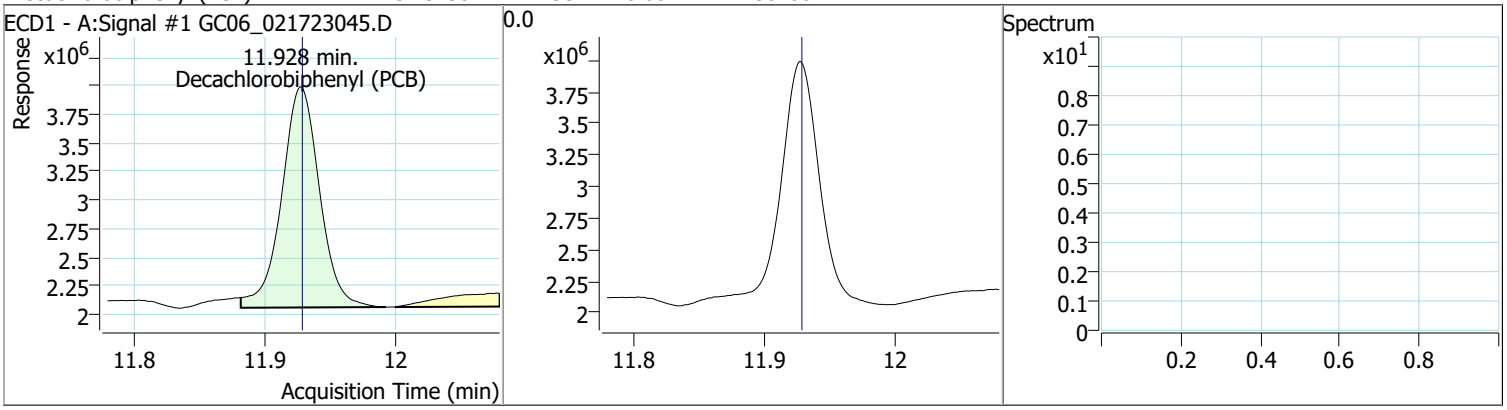
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	57.0230	11.00	0.00	1046188				



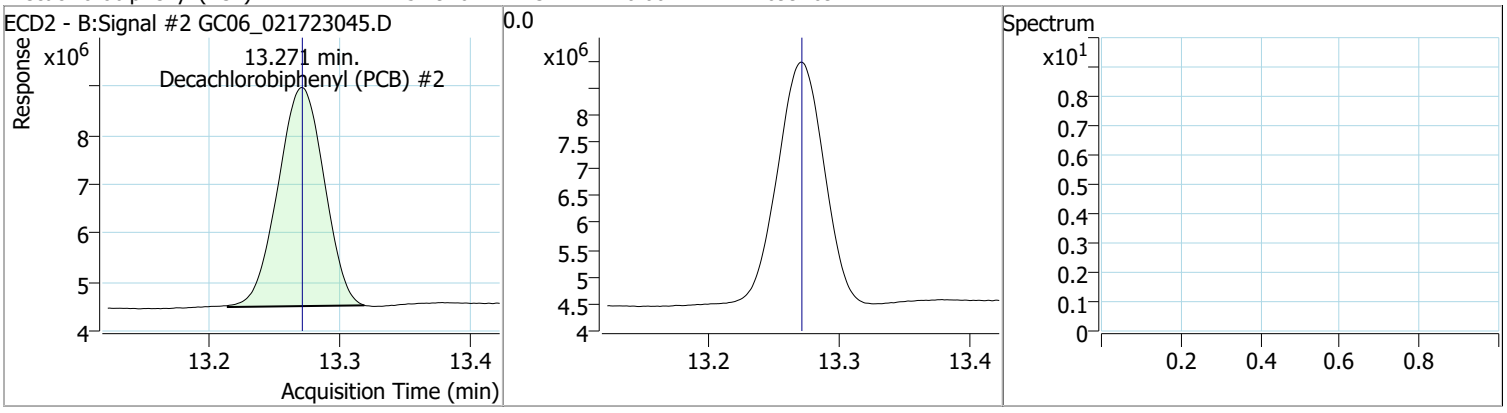
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	24.5142	11.66	-0.01	786031				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	32.3438	11.93	0.00	3878624				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	25.2920	13.27	0.00	10997091				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	479661-005	Client ID:	ARCH-C3E-EXT-1 TO 2-230216-P-DUP-WF
Seqnum:	453069687046.1	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_021723046	Batch:	307899	Time:	17-FEB-2023 22:28
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Cal	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	453057263001	38.36	ND	0.67	55%	0.50		u
Aroclor-1016 Peak # 1	B	453057263001	52.87	0.53	0.54	1%			
Aroclor-1016 Peak # 2	B	453057263001	6.050	0.06	0.03	68%			
Aroclor-1016 Peak # 3	B	453057263001	125.1	1.25	0.39	104%			
Aroclor-1016 Peak # 4	B	453057263001	5.256	0.05	1.18	183%			
Aroclor-1016 Peak # 5	B	453057263001	2.476	0.02	1.24	192%			
Aroclor-1221	B			ND			0.50		u
Aroclor-1232	B			ND			0.50		u
Aroclor-1242	B			ND			0.50		u
Aroclor-1248	B			ND			0.50		u
Aroclor-1254	B			ND			0.50		u
Aroclor-1260	B	453057263001	18.55	ND	0.18	1%	0.50		u
Aroclor-1260 Peak # 1	B	453057263001	12.65	0.13	0.00	191%			
Aroclor-1260 Peak # 2	B	453057263001	13.71	0.14	0.04	118%			
Aroclor-1260 Peak # 3	B	453057263001	5.300	0.05	0.07	28%			
Aroclor-1260 Peak # 4	B	453057263001	45.55	0.46	0.40	14%			
Aroclor-1260 Peak # 5	B	453057263001	15.53	0.16	0.41	91%			
Aroclor-1262	B			ND			0.50		u
Aroclor-1268	B	453069687001	29.58	ND	ND	8%	0.50		?v u
Aroclor-1268 Peak # 1	B	453069687001	61.07	0.61	0.59	4%			
Aroclor-1268 Peak # 2	B	453069687001	45.86	0.46	0.65	35%			
Aroclor-1268 Peak # 3	B	453069687001	16.90	0.17	0.17	3%			
Aroclor-1268 Peak # 4	B	453069687001	19.03	0.19	0.09	73%			
Aroclor-1268 Peak # 5	B	453069687001	5.045	0.05	0.10	69%			

Surrogate	Ch	Cal	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	453057263001	30.41	0.5000	0.3041	61	19-121	c- u
Decachlorobiphenyl (PCB)	B	453057263001	25.88	0.5000	0.2588	52	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	6659056	6923618	3.97
1-bromo-2-nitrobenzene (1268)	A	1543460	1543194	-0.02

ISTD (CCV gc06_021723029)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	8293841	7092563	-14.48
1-bromo-2-nitrobenzene (PCB)	A	1858745	1554606	-16.36

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (1268)	A	4.19	4.19	0.00

ISTD (CCV gc06_021723029)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.20	4.19	-0.01

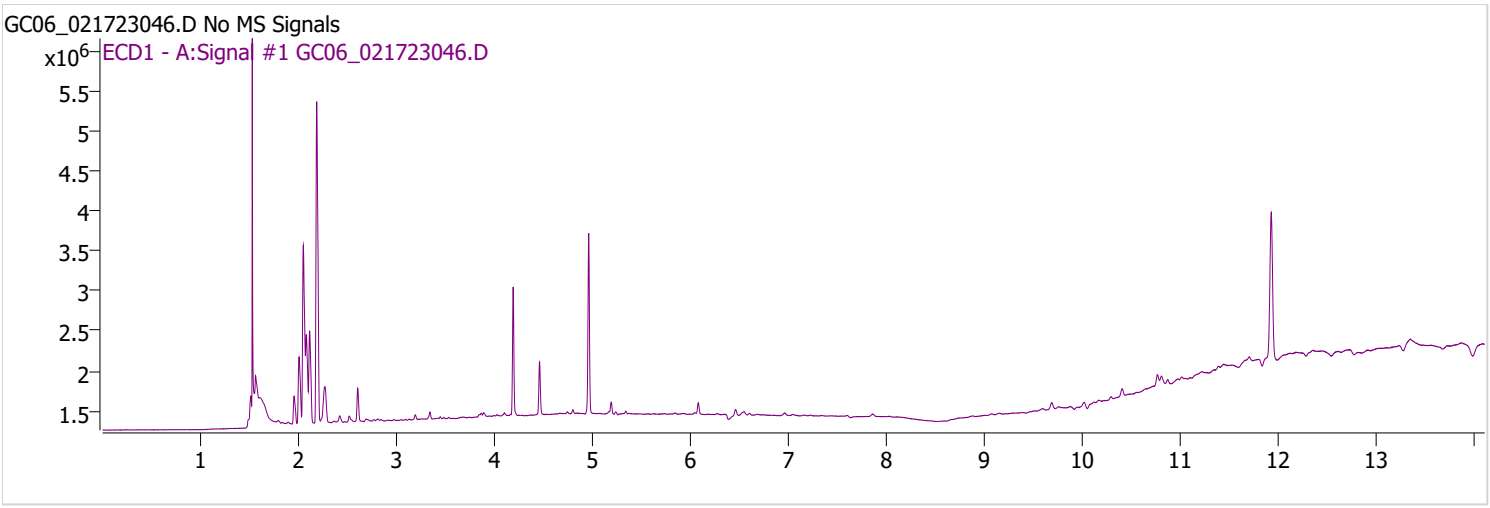
TRN 02/24/23 : Fix above

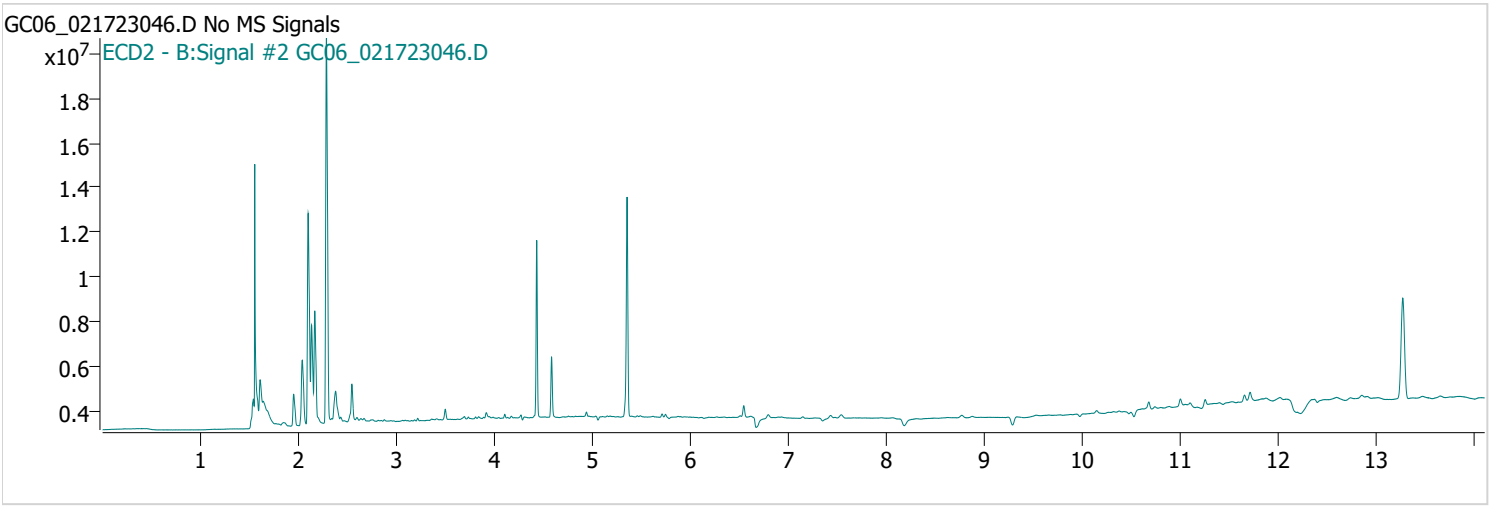
-=low bias ?=missing c=CCV u=use v=ICV out

Reviewed By: MES 02/20/23 *, TRN 02/24/23, LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723046.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 10:28:07 PM
Sample Name	479661-005, 307899, 1	Instrument	SVOA-GC06
Vial	25	Multiplier	1.00
DA Method File	PCB_AR1268_021723_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723AR1268.batch.bin	Last Calib Update	2/24/2023 2:50:23 PM
Ref Library			



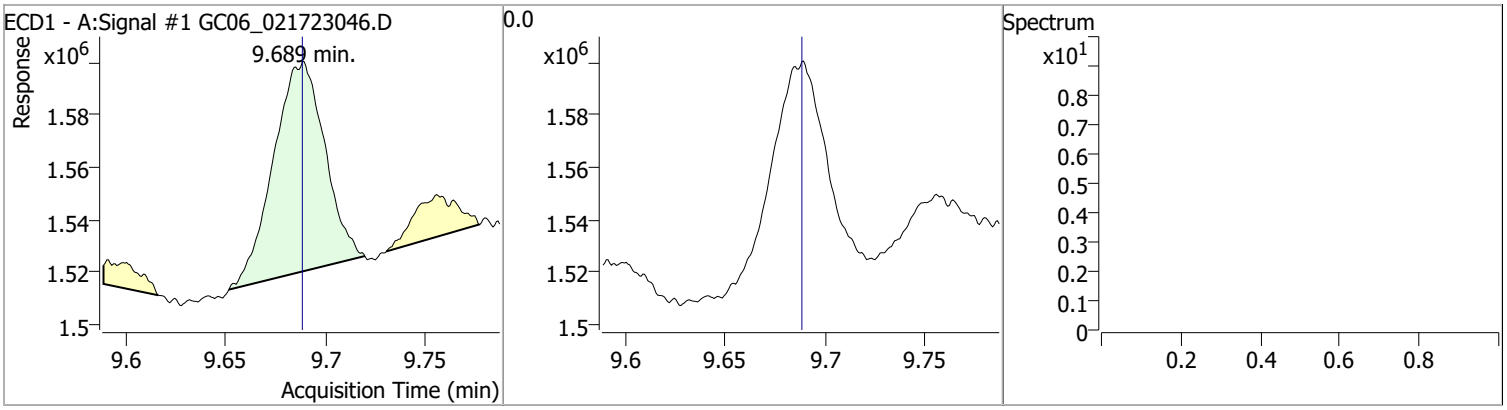


Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (1268)	4.191	0.0	1543194.271	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (1268) #2	4.431	0.0	6923617.571	20.0000	ng/ml	0.010
System Monitoring Compounds						
Target Compounds						**QValue**
T AR1268 1	9.689	0.0	144491.951	58.7081	ng/ml	100
T AR1268 2	10.016	0.0	205729.483	65.1145	ng/ml	100
T Aroclor-1268	10.637	0.0	212635.769	15.9308	ng/ml	
T AR1268 1 #2	10.678	0.0	540191.859	61.0701	ng/ml	100
T AR1268 3	10.764	0.0	235954.507	17.4942	ng/ml	100
T AR1268 2 #2	11.000	0.0	508316.262	45.8557	ng/ml	100
T AR1268 4	11.015	0.0	94552.334	8.8105	ng/ml	100
T AR1268 3 #2	11.711	0.0	753941.443	16.8955	ng/ml	100
T AR1268 5	11.700	0.0	382450.567	10.3653	ng/ml	100
T Aroclor-1268 #2	11.652	0.0	614191.497	14.1246	ng/ml	
T AR1268 4 #2	12.018	0.0	676662.211	19.0323	ng/ml	100

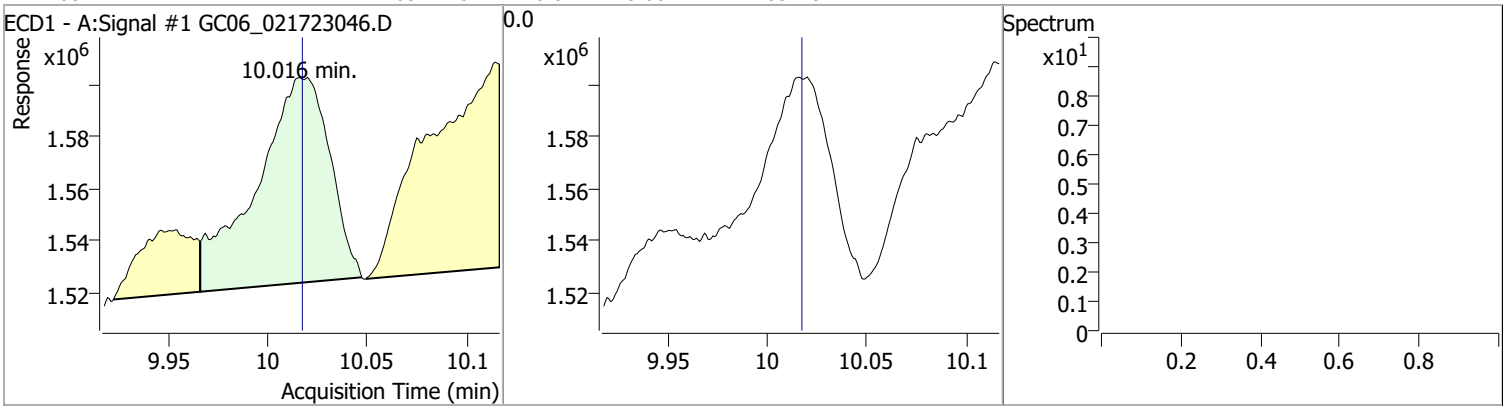
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1268 5 #2	12.853	0.0	591845.711	5.0451	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

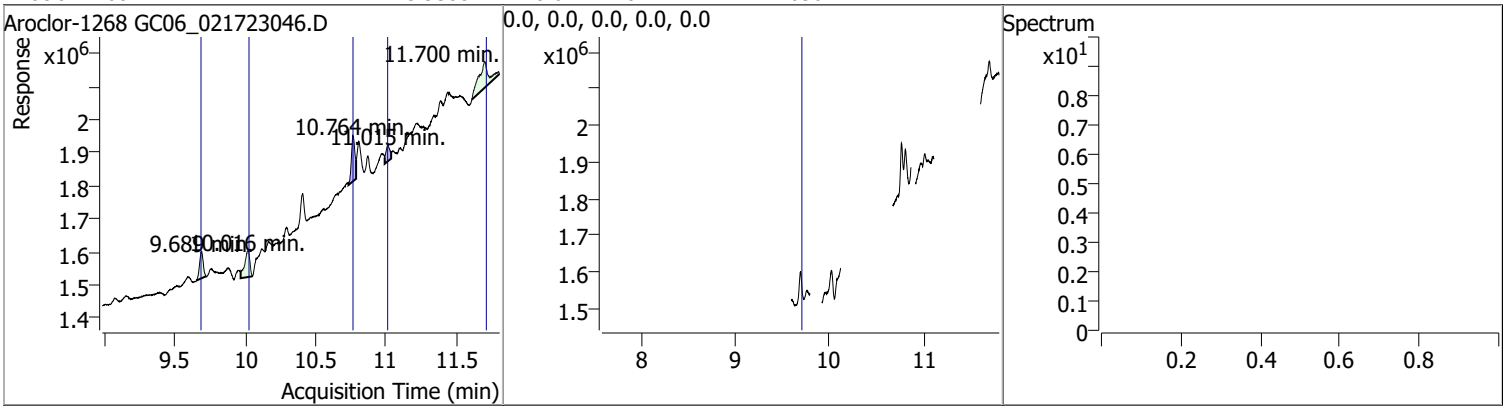
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 1	58.7081	9.69	0.00	144492				



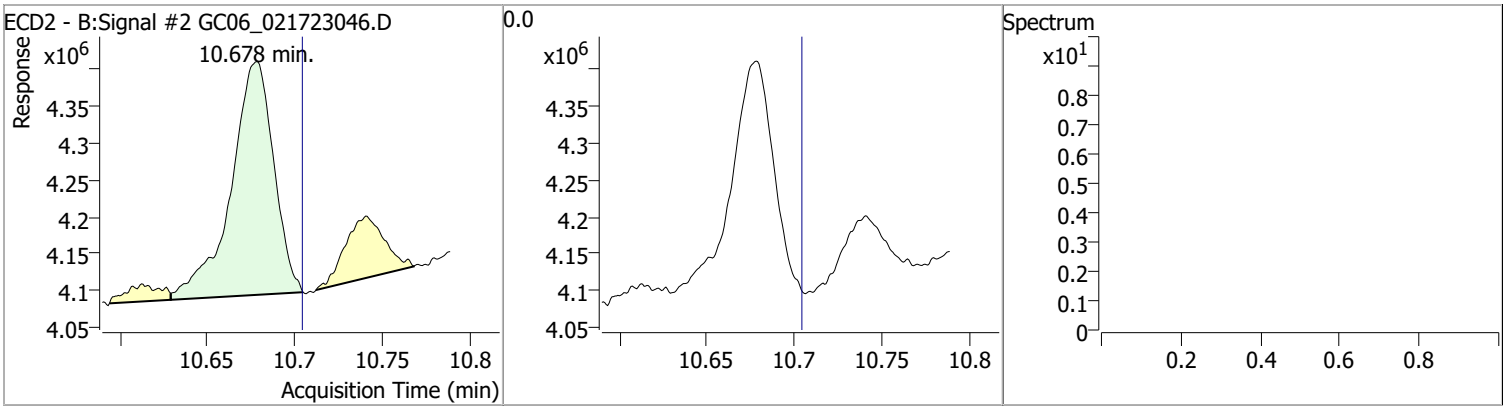
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 2	65.1145	10.02	0.00	205729				



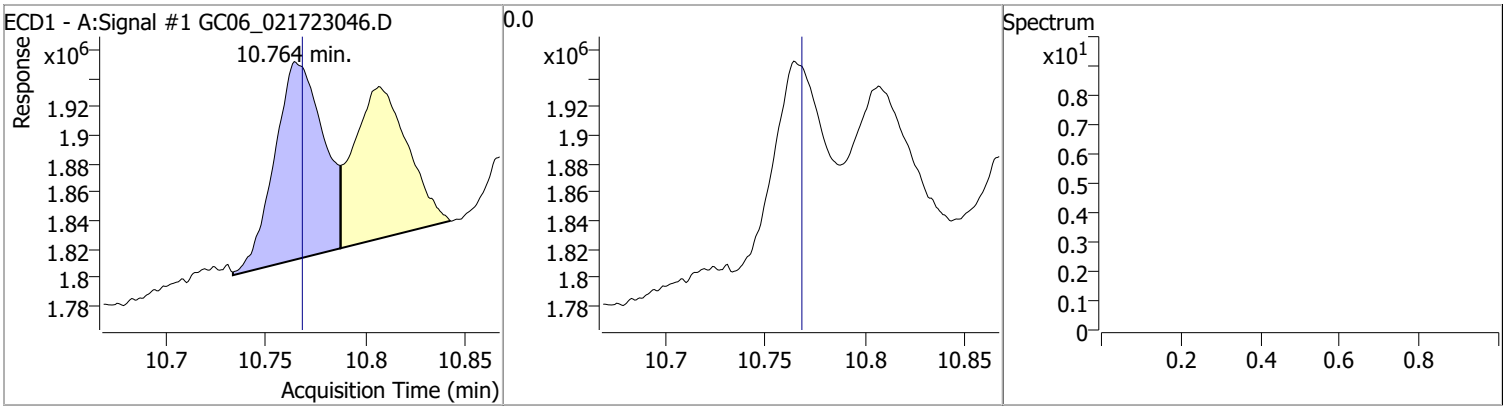
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Aroclor-1268	15.9308	10.64	0.24	212636				



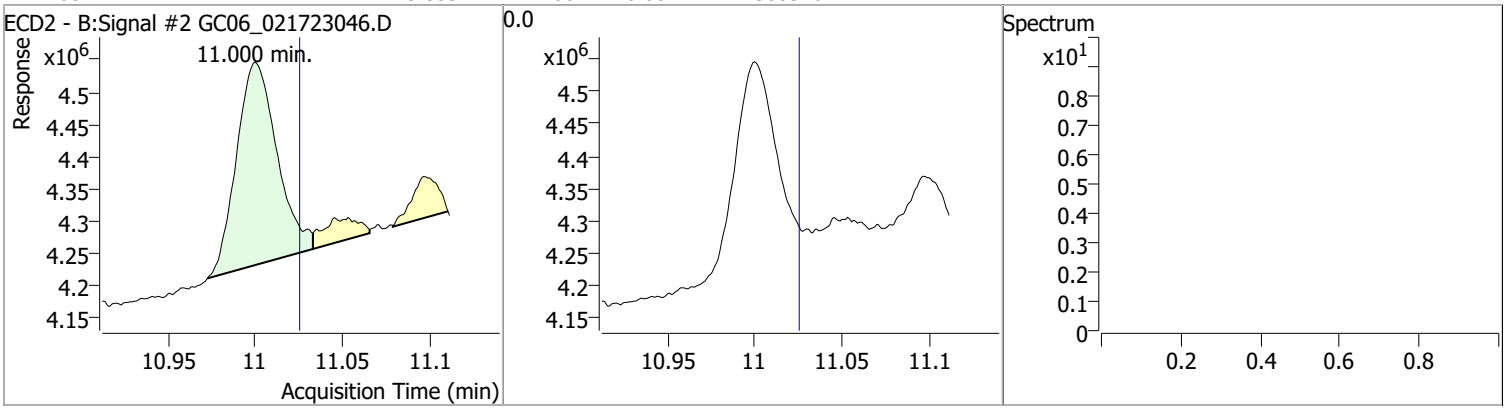
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 1 #2	61.0701	10.68	0.00	540192				



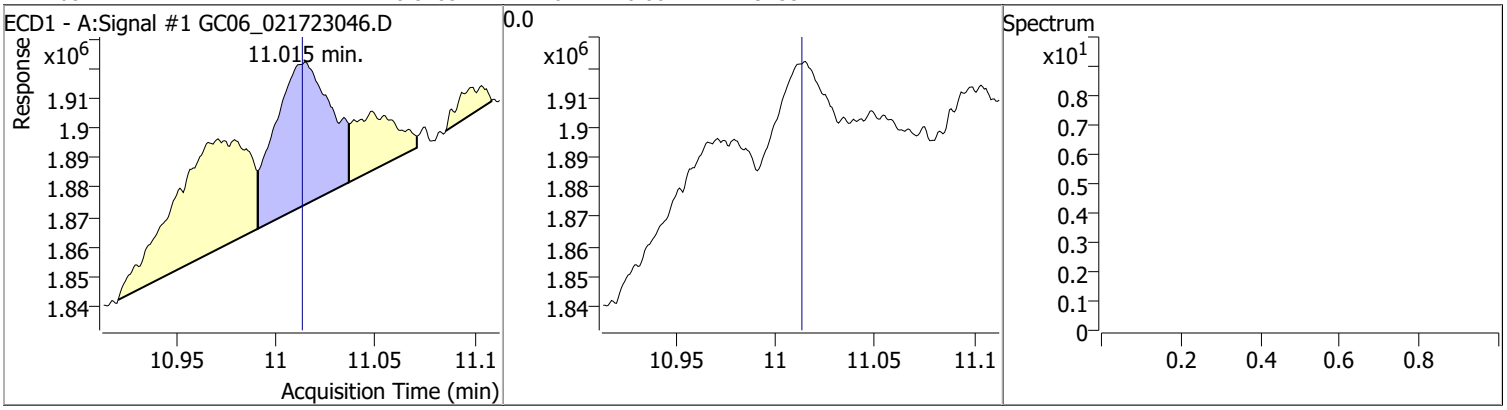
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 3	17.4942	10.76	0.00	235955				



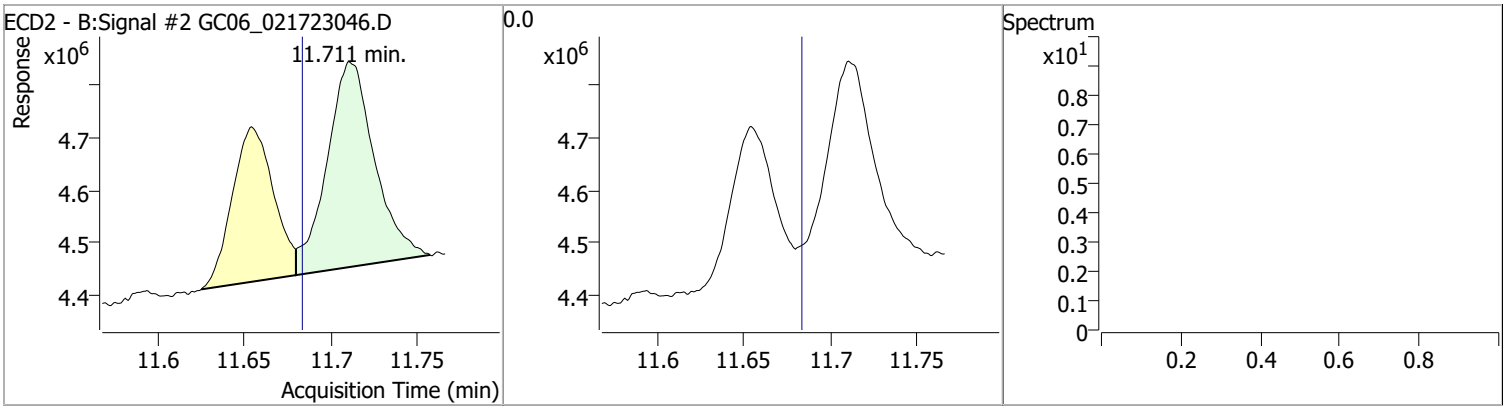
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 2 #2	45.8557	11.00	0.00	508316				



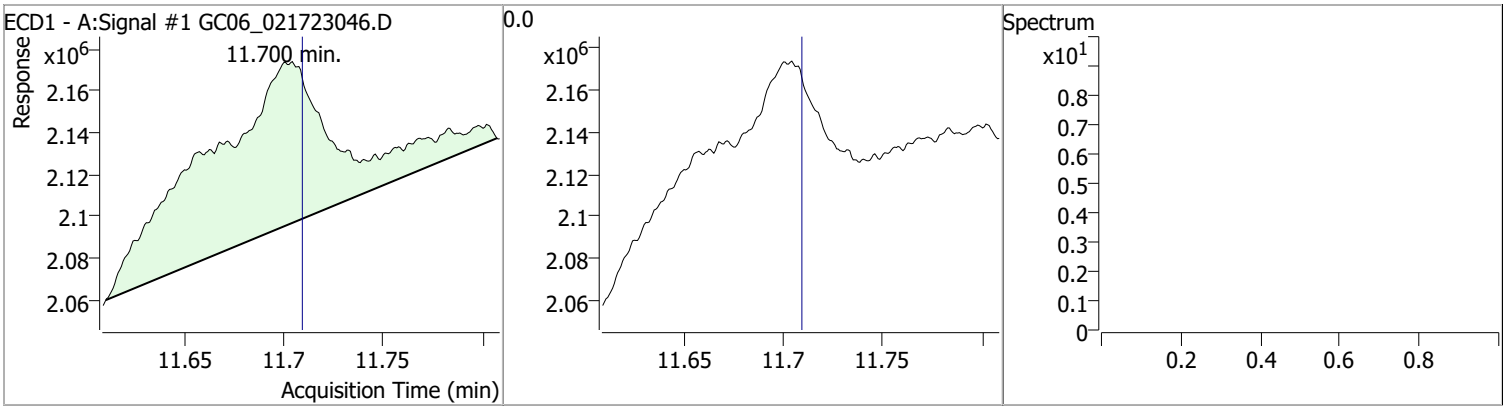
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 4	8.8105	11.02	0.00	94552				



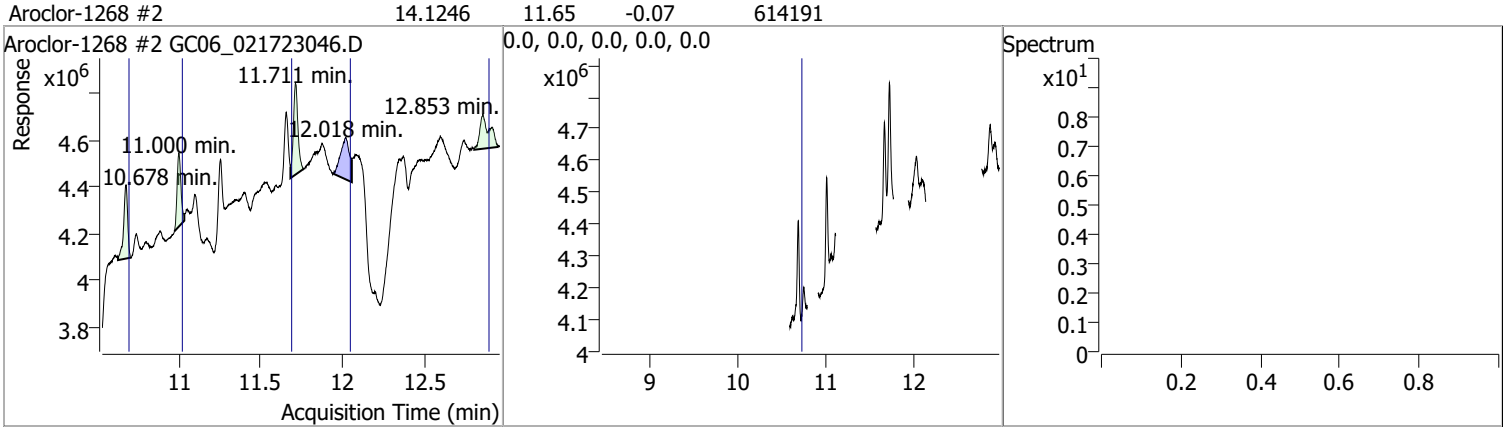
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 3 #2	16.8955	11.71	0.05	753941				



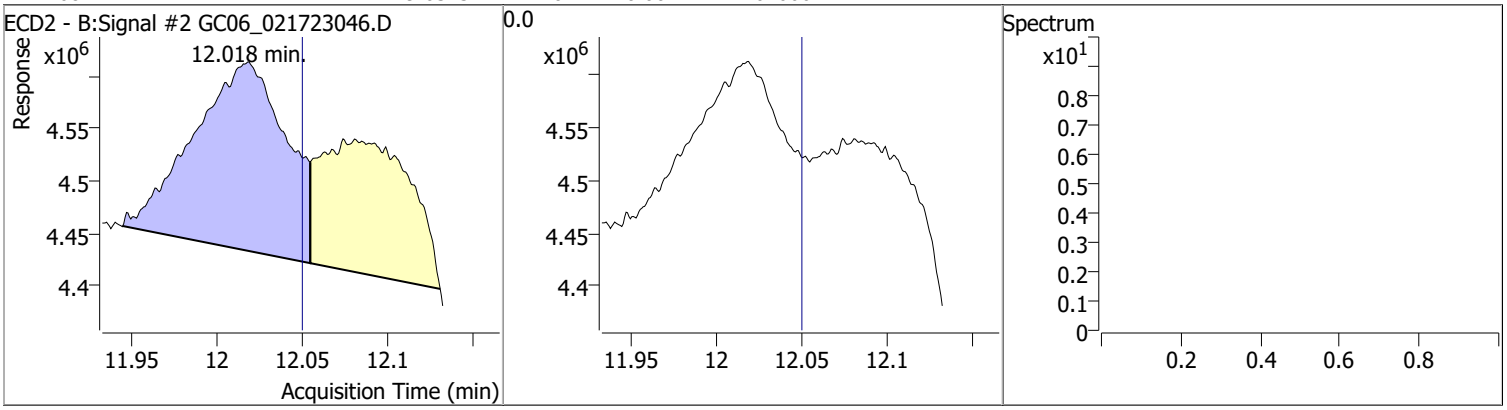
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 5	10.3653	11.70	-0.01	382451				



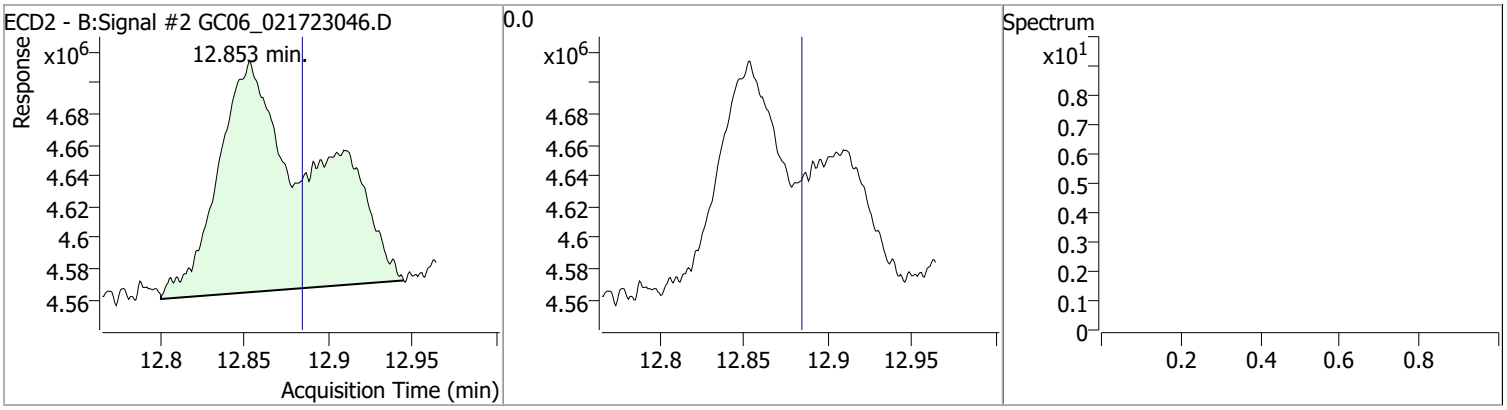
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Aroclor-1268 #2	14.1246	11.65	-0.07	614191				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 4 #2	19.0323	12.02	0.00	676662				



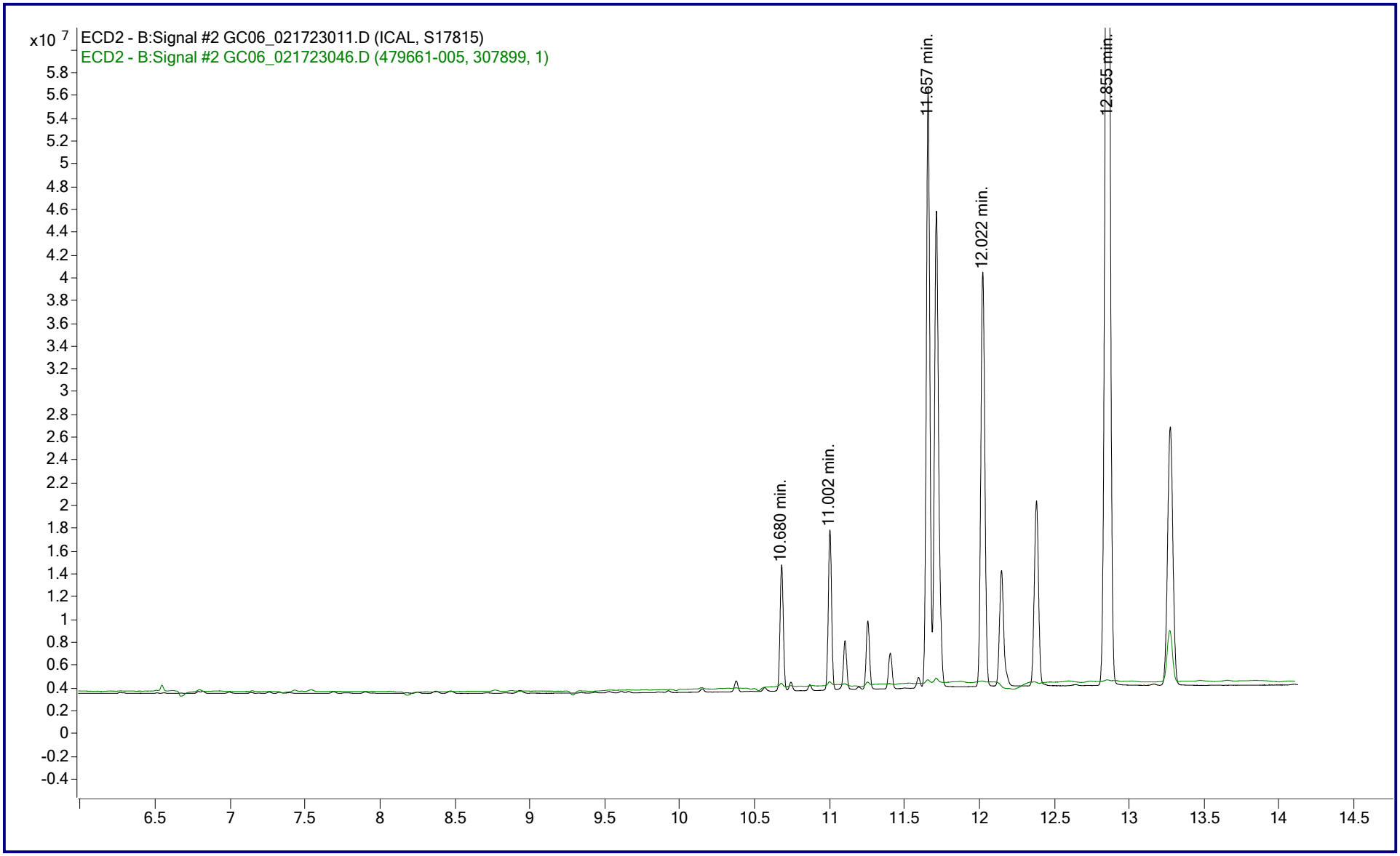
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 5 #2	5.0451	12.85	0.00	591846				



Chromatogram Information Window

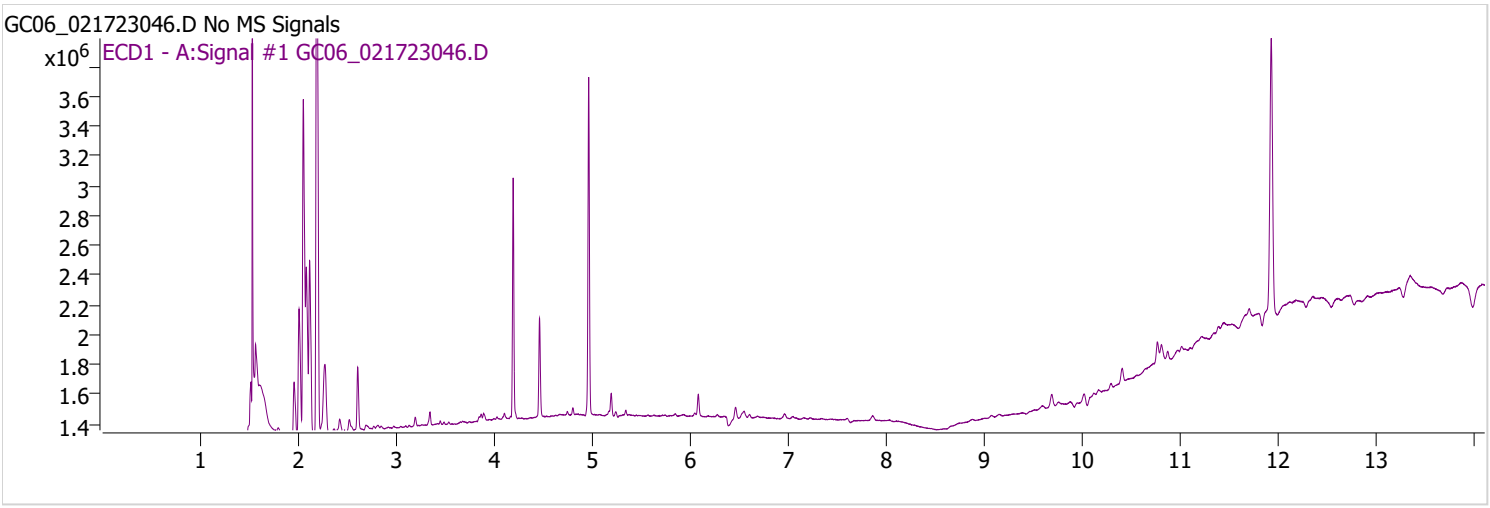
Agilent Technologies

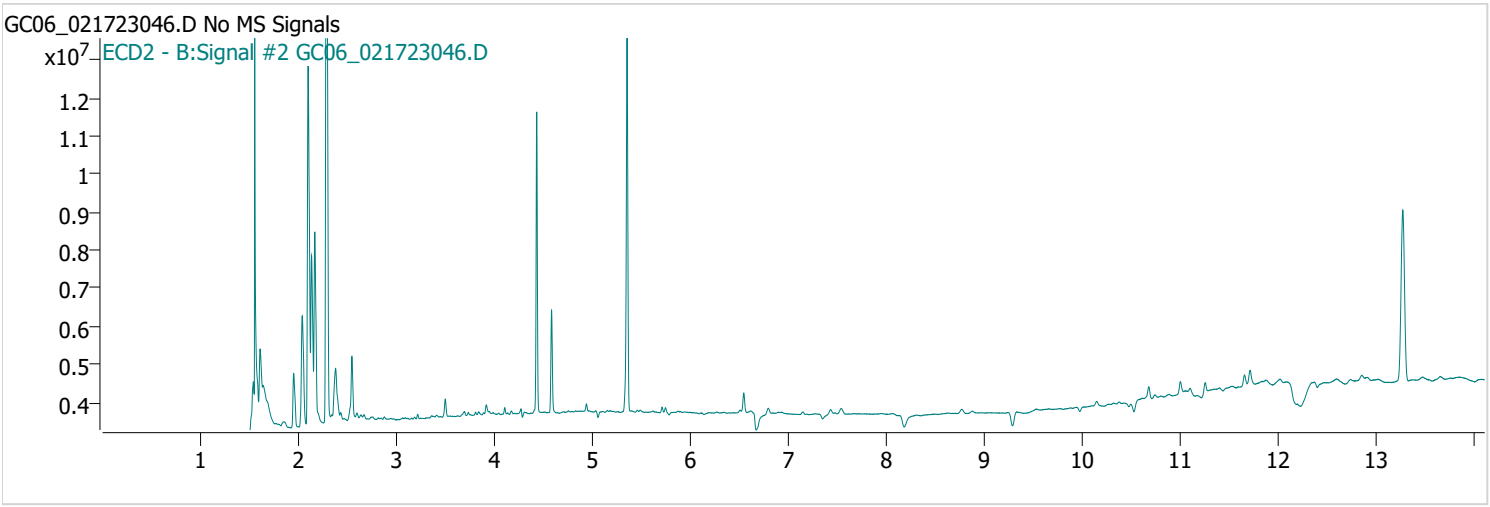
Data Path	C:\MassHunter\GCMS\1\data\GC06_021723
Data File	GC06_021723011.D
Acq Operator	
Acq. Date-Time	2/17/2023 12:07 PM
Instrument Name	SVOA-GC06



Quantitation Results Report (Not Reviewed)

Data File	GC06_021723046.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 10:28:07 PM
Sample Name	479661-005, 307899, 1	Instrument	SVOA-GC06
Vial	25	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
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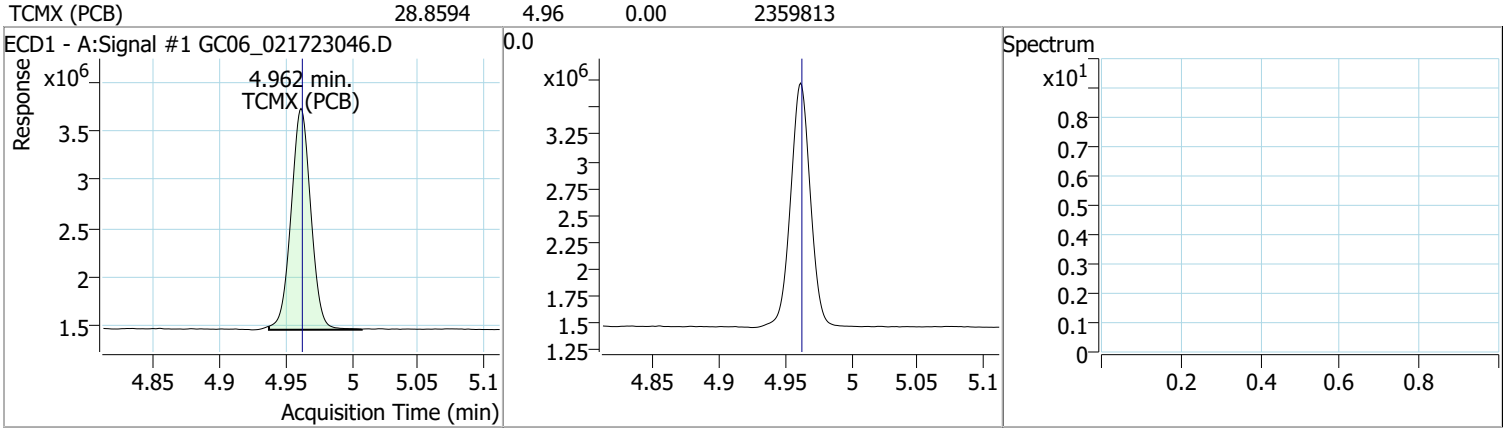


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.191	0.0	1554606.083	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.431	0.0	7092563.044	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	4.962	0.0	2359813.347	28.8594	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 144.30%			
S TCMX (PCB) #2	5.353	0.0	10952530.761	30.4102	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 152.05%		*	
S Decachlorobiphenyl (PCB)	11.928	0.0	3745159.390	31.5757	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 157.88%		*	
S Decachlorobiphenyl (PCB) #2	13.270	0.0	11082684.721	25.8831	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 129.42%			
Target Compounds							QValue

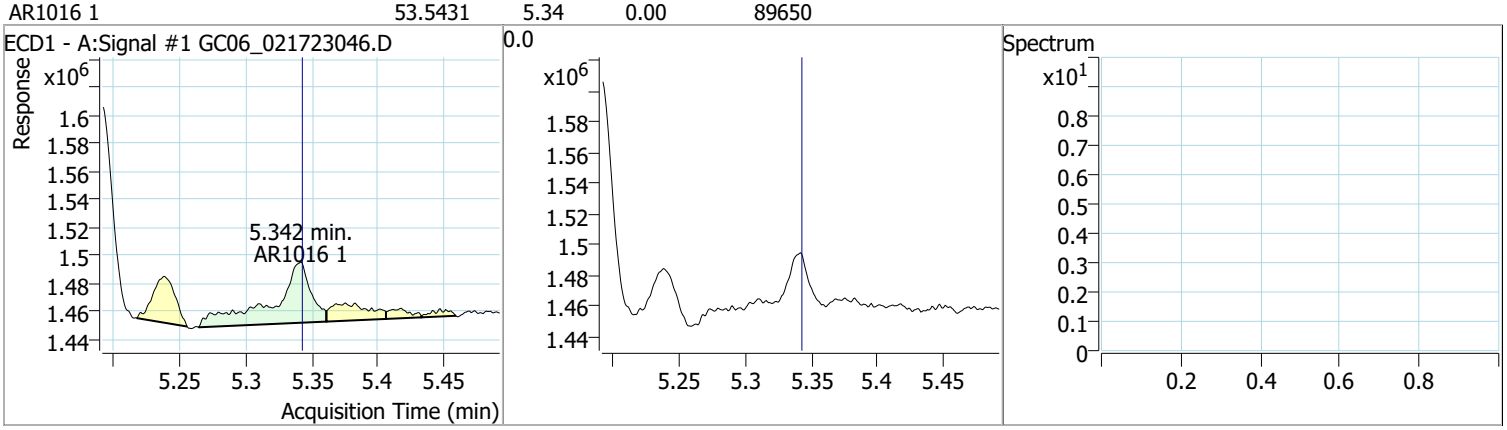
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.342	0.0	89649.627	53.5431	ng/ml	100
T AR1016 2	5.627	0.0	13574.917	2.9752	ng/ml	100
T AR1016 1 #2	5.873	0.0	391813.260	52.8751	ng/ml	100
T AR1016 3	6.080	0.0	190992.538	39.3041	ng/ml	100
T AR1016 4	6.273	0.0	440696.258	117.6461	ng/ml	100
T AR1016 2 #2	6.268	0.0	104782.975	6.0501	ng/ml	100
T AR1016 5	6.462	0.0	226452.491	123.9954	ng/ml	100
T AR1016 3 #2	6.794	0.0	2651921.013	125.1423	ng/ml	100
T AR1016 4 #2	6.928	0.0	79418.756	5.2557	ng/ml	100
T AR1016 5 #2	7.667	0.0	30313.114	2.4756	ng/ml	100
T AR1260 1	8.553	0.0	1769.568	0.2812	ng/ml	100
T AR1260 2	9.069	0.0	31020.228	3.5350	ng/ml	100
T AR1260 3	9.591	0.0	69244.200	6.9933	ng/ml	100
T AR1260 1 #2	9.877	0.0	283212.118	12.6528	ng/ml	100
T AR1260 4	10.016	0.0	207542.607	39.7413	ng/ml	100
T AR1260 2 #2	10.147	0.0	362212.814	13.7126	ng/ml	100
T AR1260 3 #2	10.496	0.0	182502.181	5.2996	ng/ml	100
T AR1260 5	10.764	0.0	245536.994	41.2977	ng/ml	100
T AR1260 4 #2	11.000	0.0	823063.424	45.5554	ng/ml	100
T AR1260 5 #2	11.654	0.0	490222.917	15.5252	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

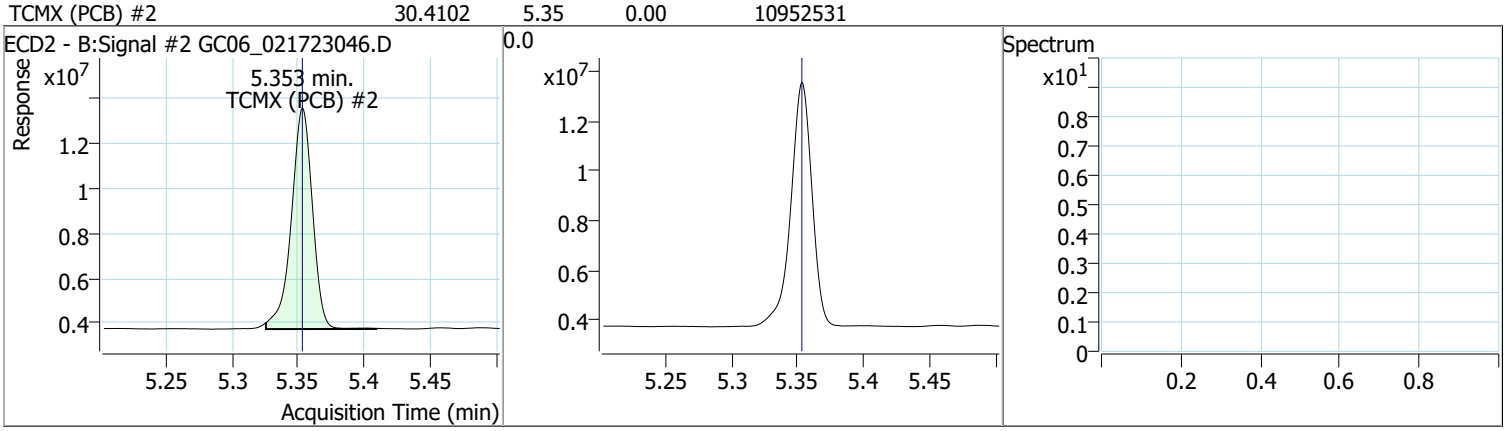
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	28.8594	4.96	0.00	2359813				



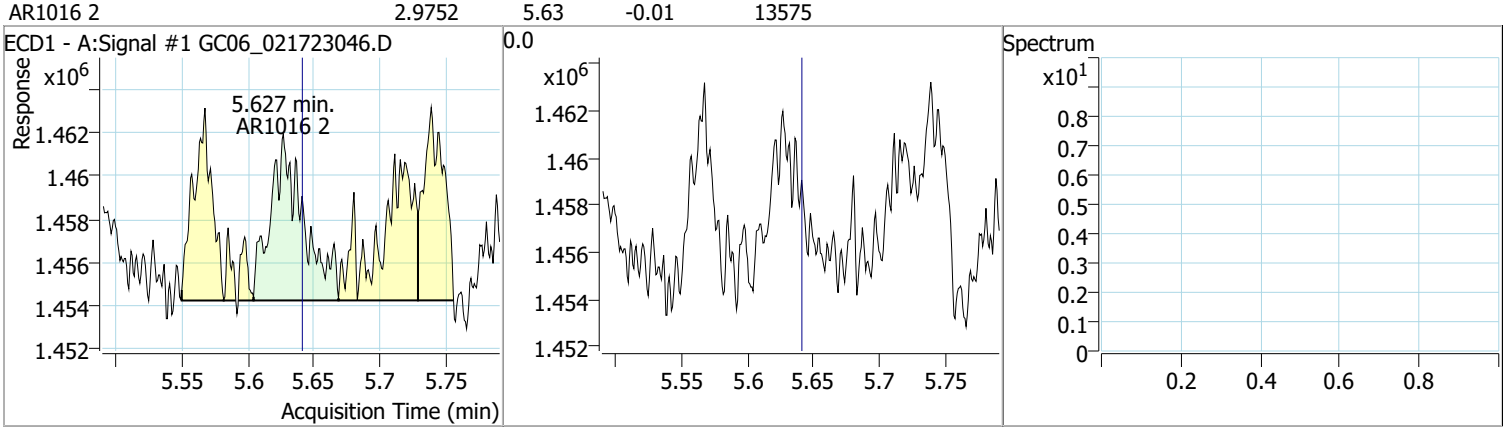
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	53.5431	5.34	0.00	89650				



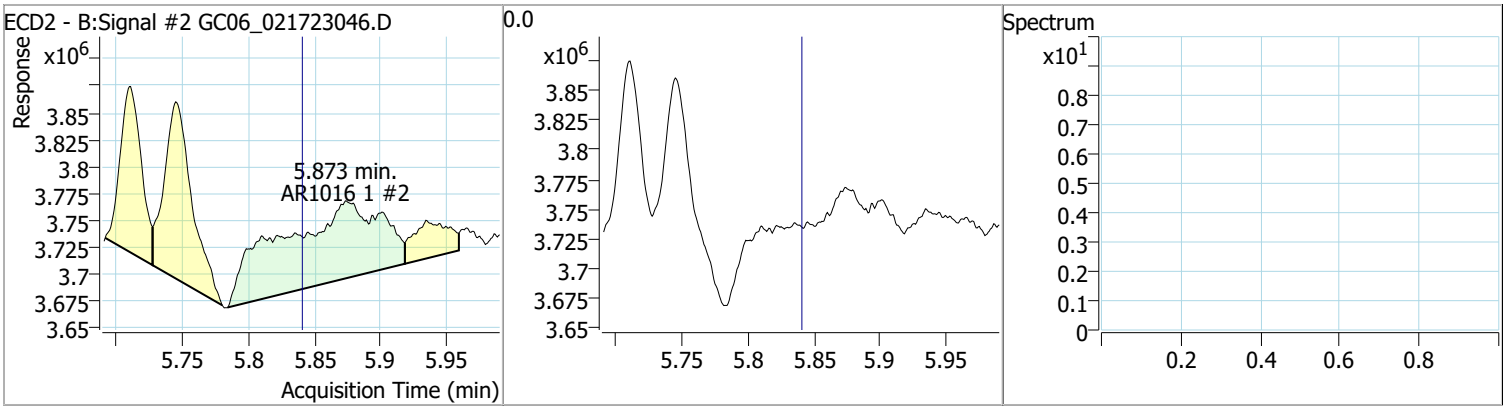
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	30.4102	5.35	0.00	10952531				



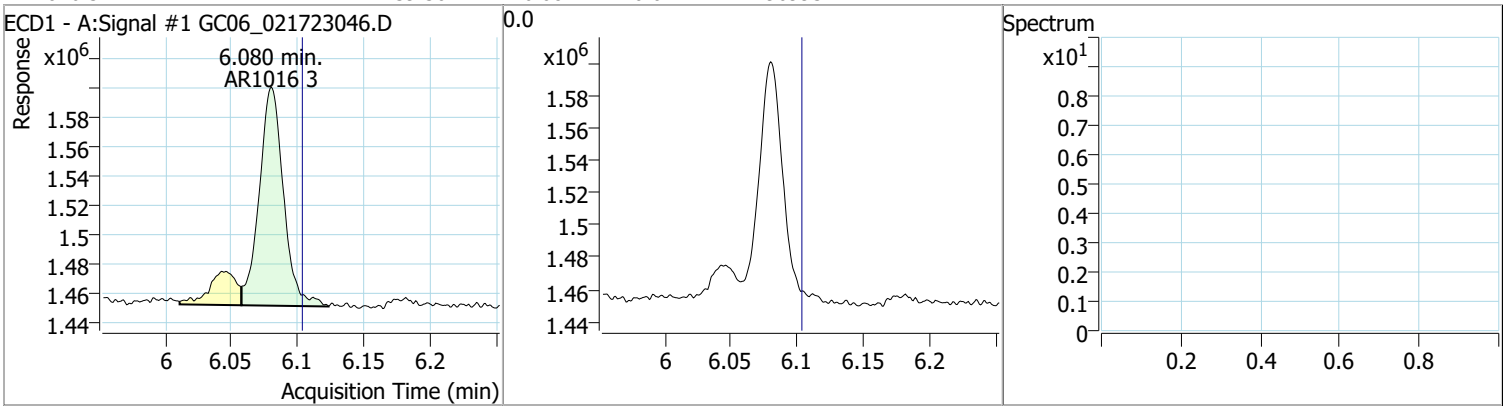
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	2.9752	5.63	-0.01	13575				



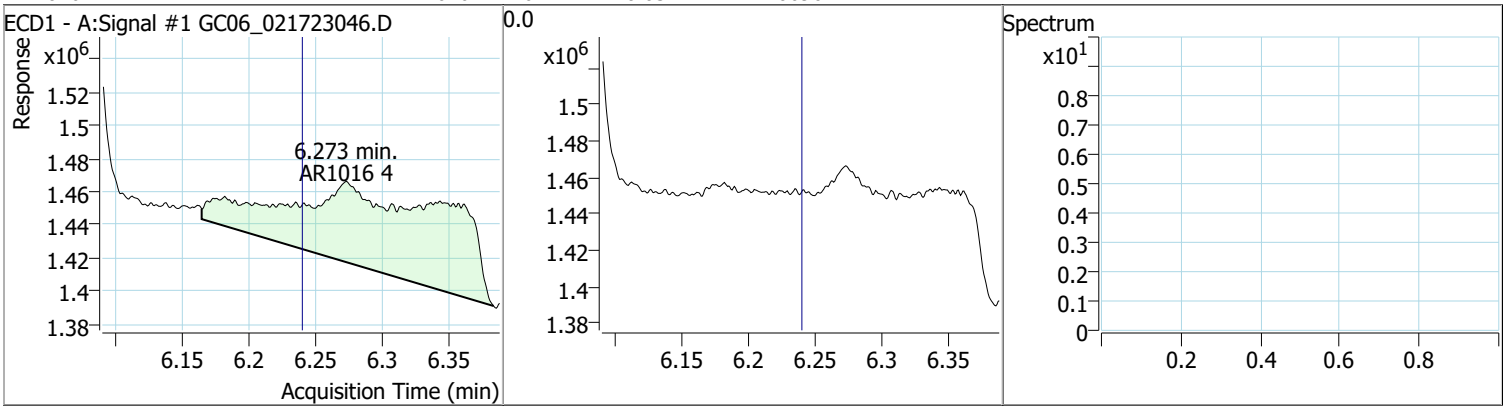
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	52.8751	5.87	0.03	391813				



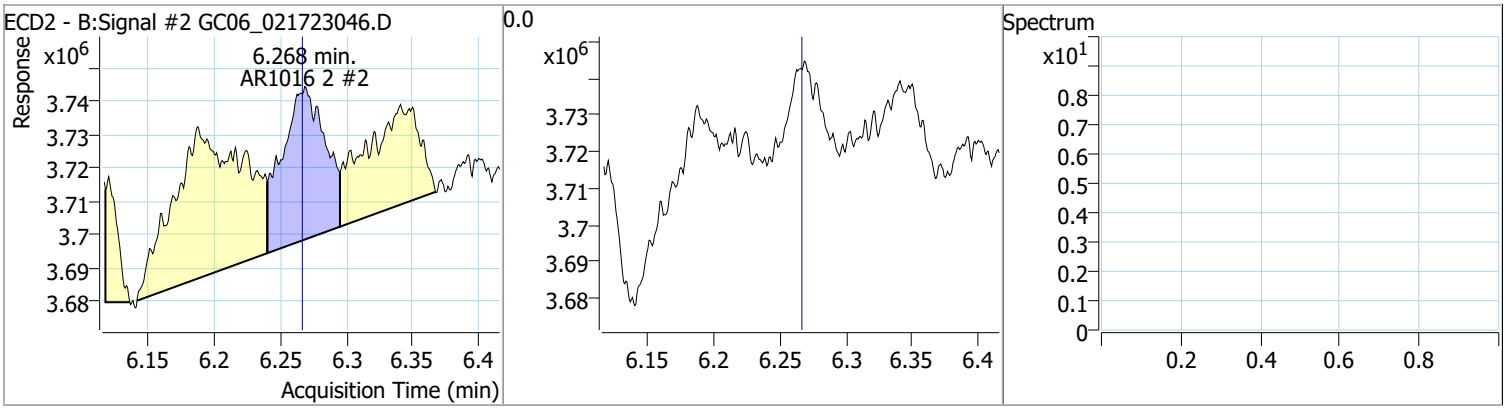
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	39.3041	6.08	-0.02	190993				



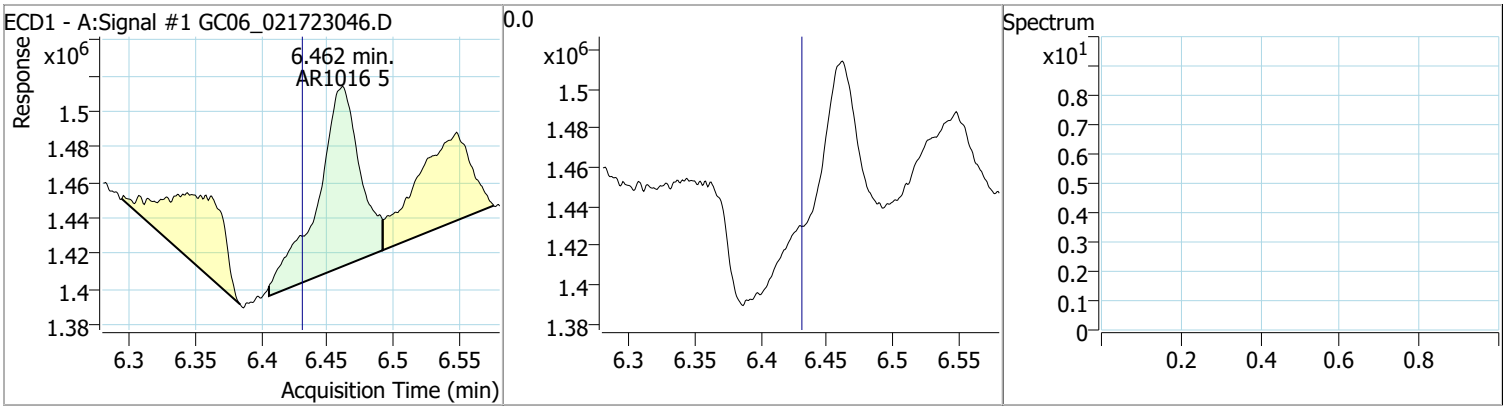
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	117.6461	6.27	0.03	440696				



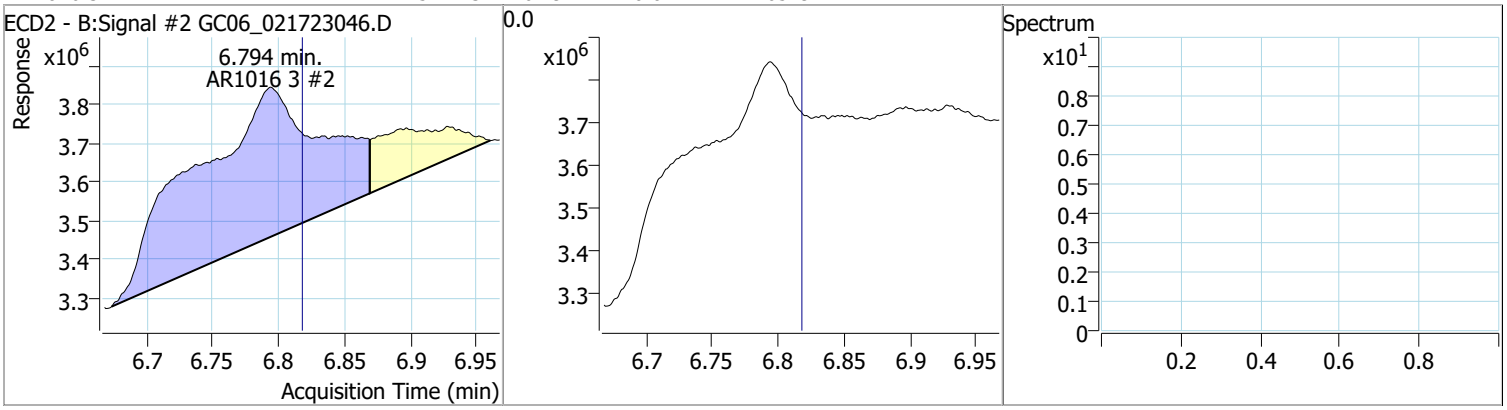
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	6.0501	6.27	0.00	104783				



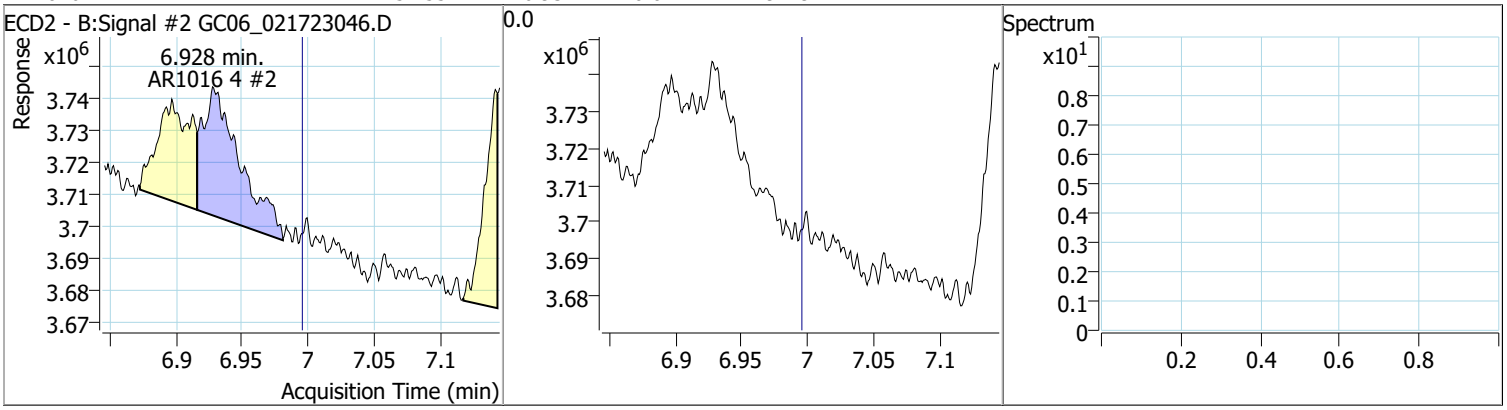
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	123.9954	6.46	0.03	226452				



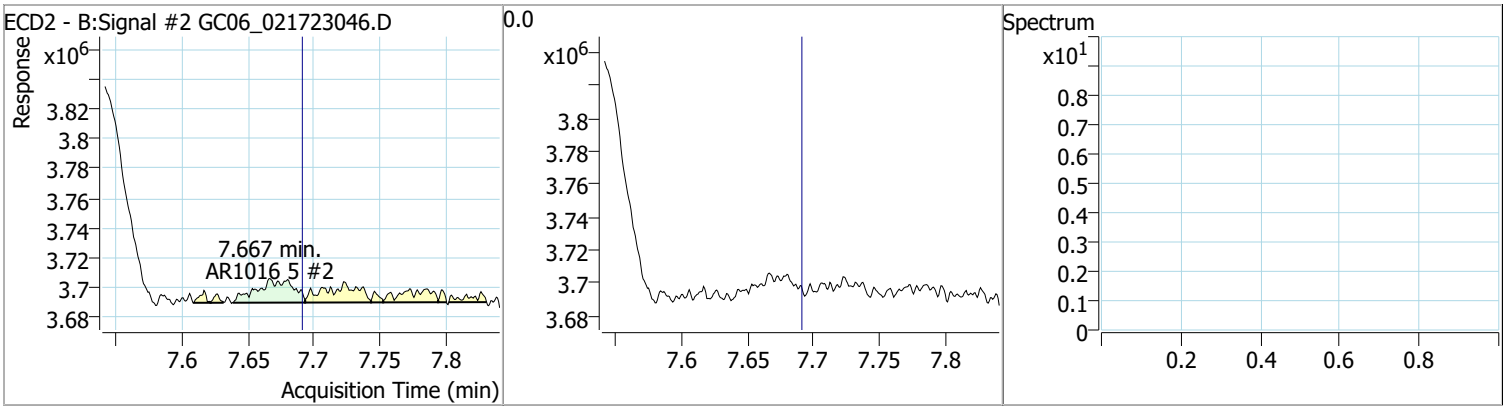
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	125.1423	6.79	-0.02	2651921				



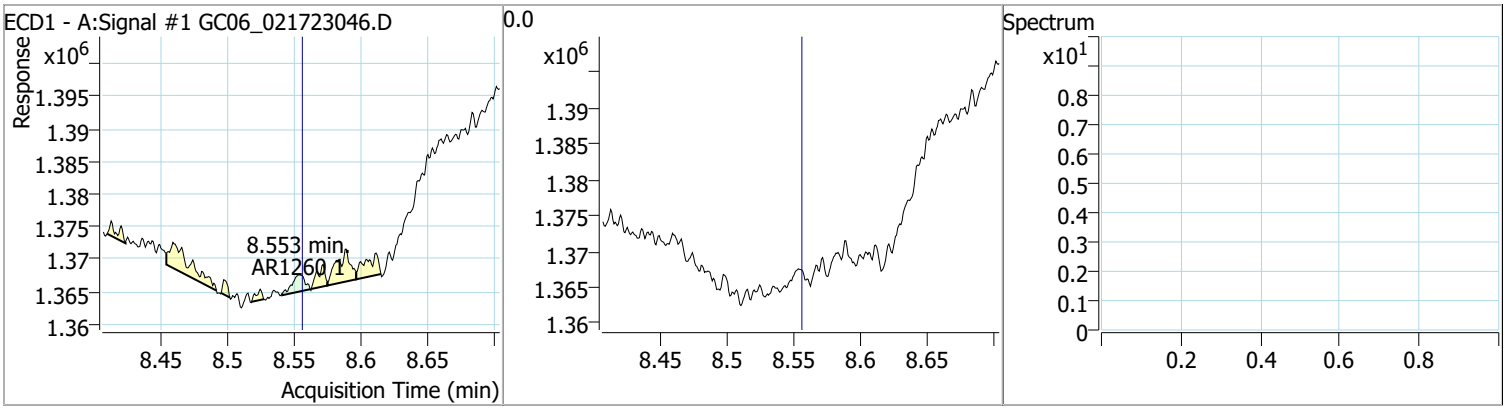
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	5.2557	6.93	-0.07	79419				



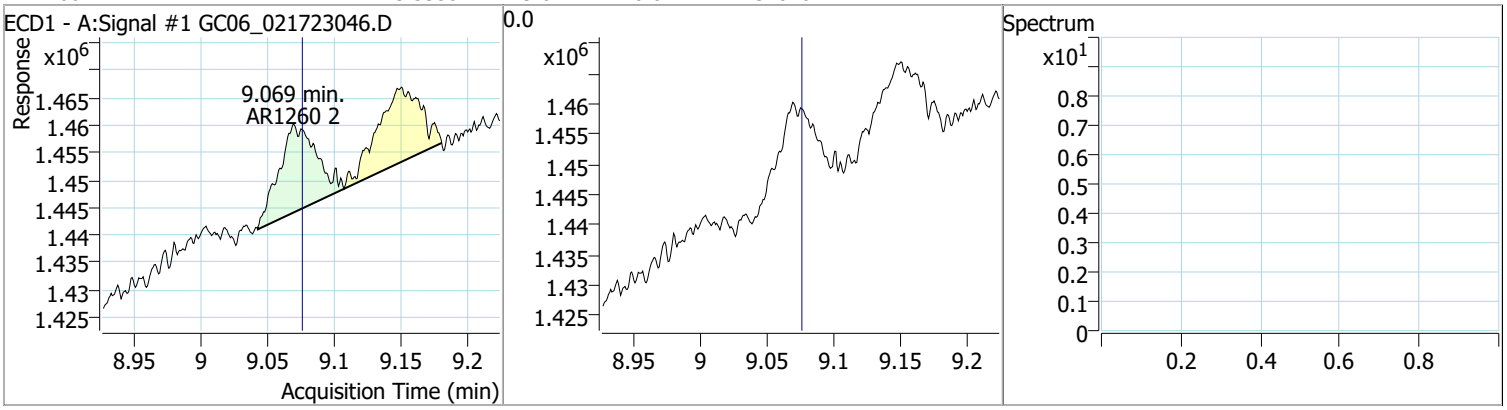
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	2.4756	7.67	-0.03	30313				



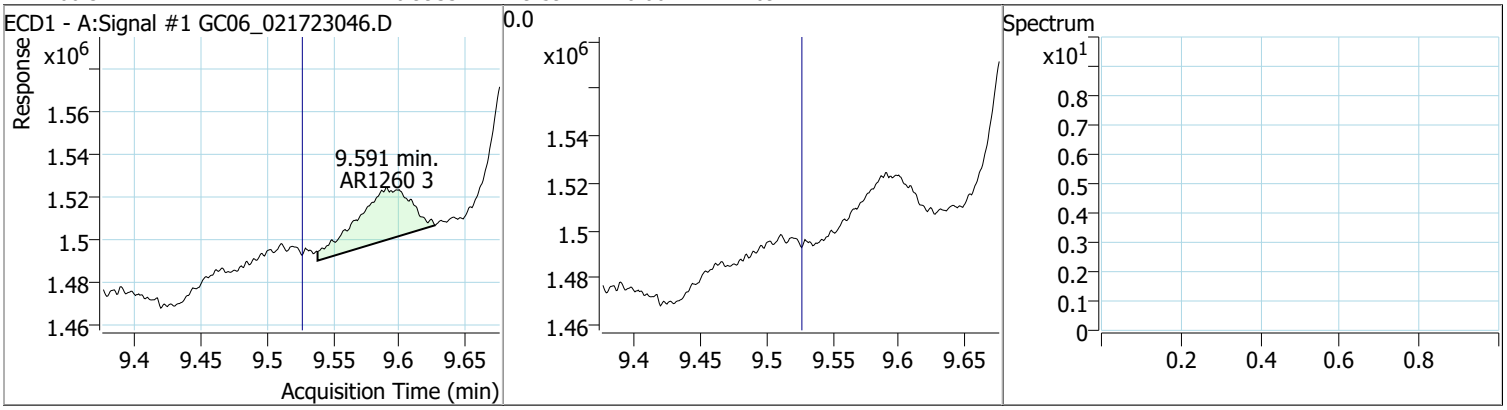
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	0.2812	8.55	0.00	1770				



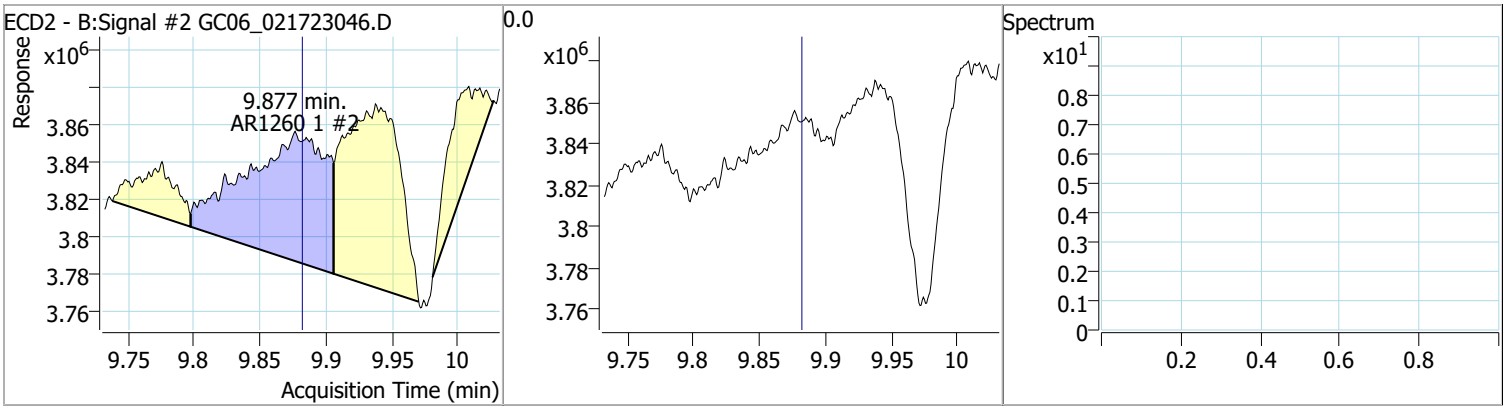
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	3.5350	9.07	-0.01	31020				



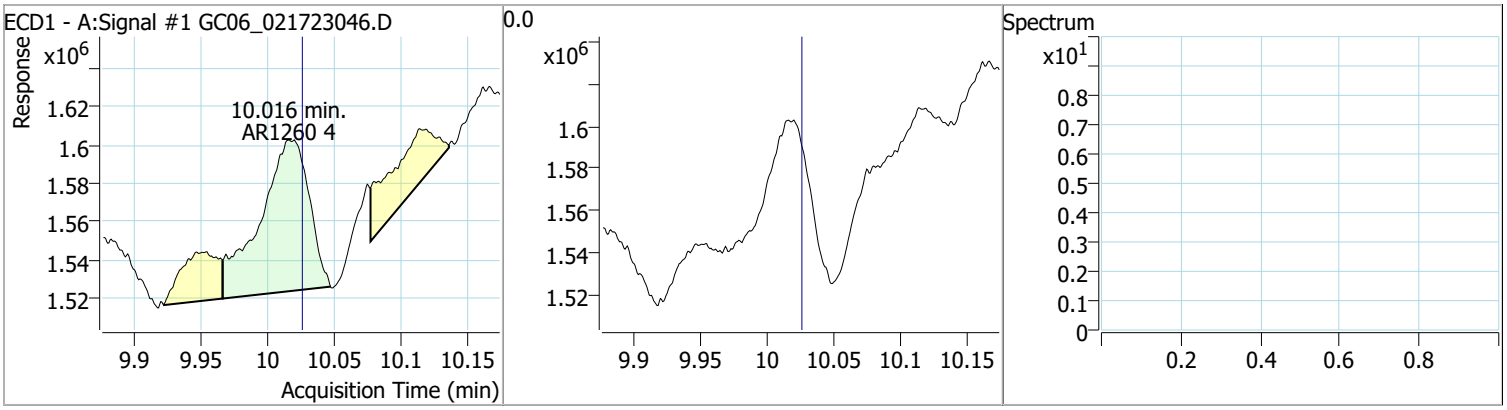
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	6.9933	9.59	0.06	69244				



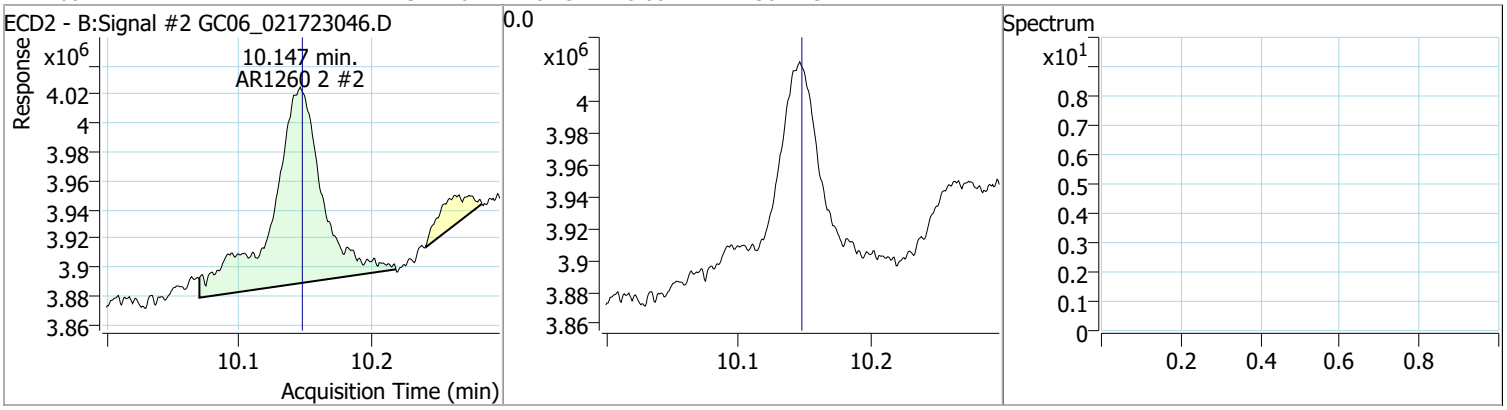
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	12.6528	9.88	-0.01	283212				



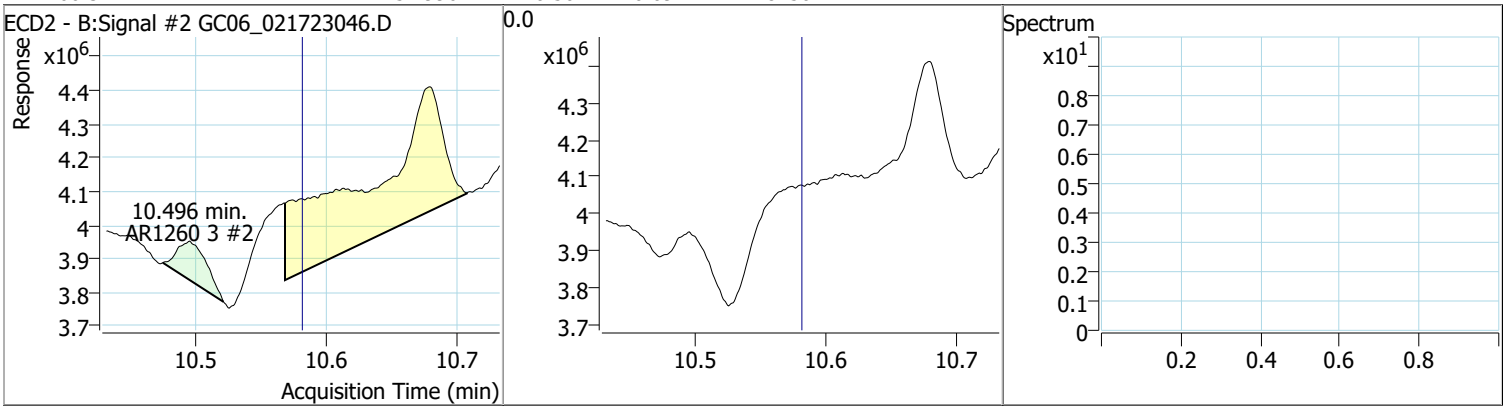
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	39.7413	10.02	-0.01	207543				



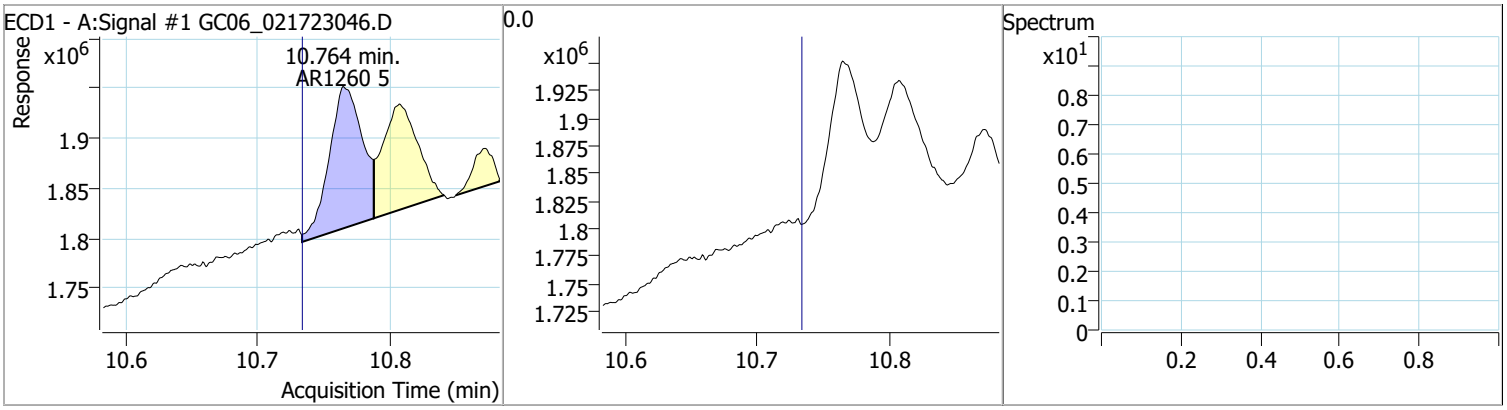
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	13.7126	10.15	0.00	362213				



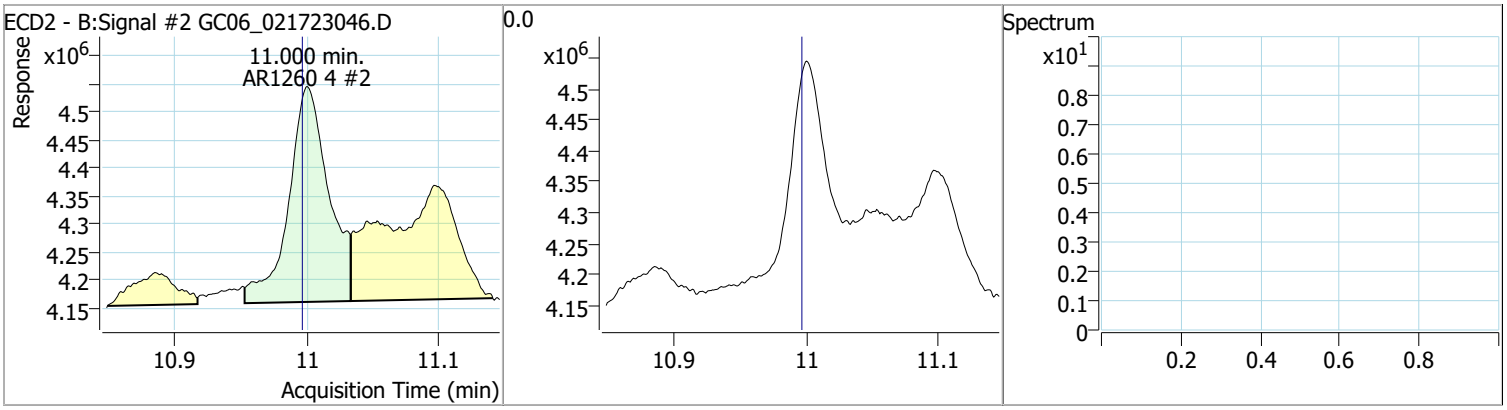
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	5.2996	10.50	-0.09	182502				



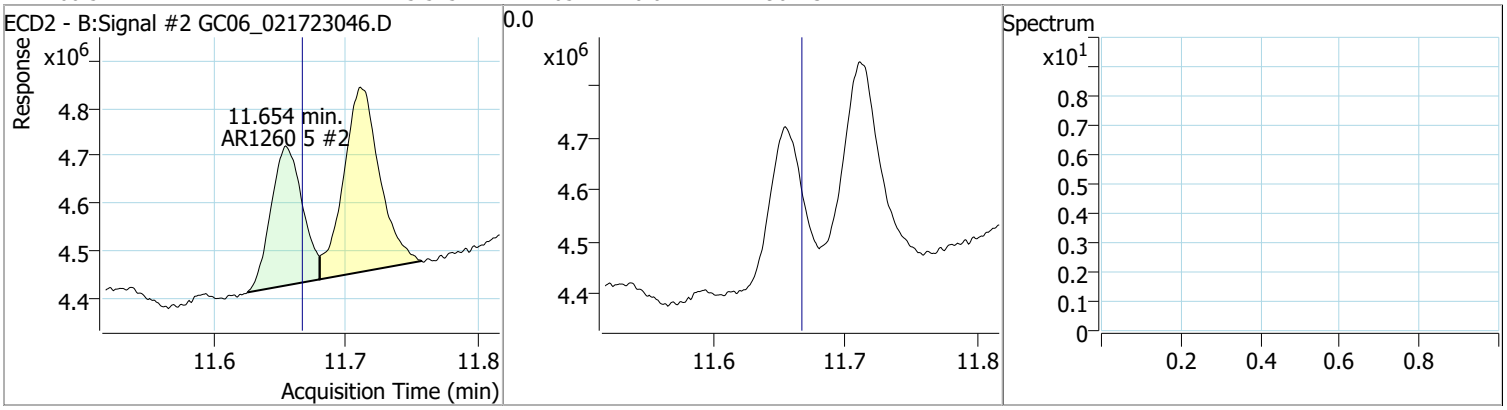
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	41.2977	10.76	0.03	245537				



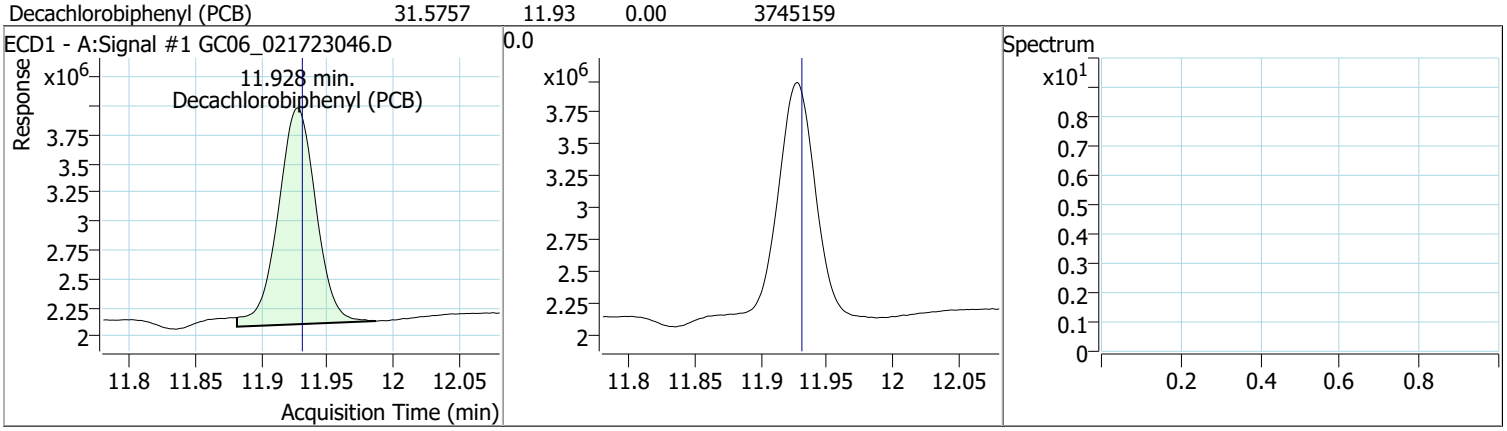
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	45.5554	11.00	0.00	823063				



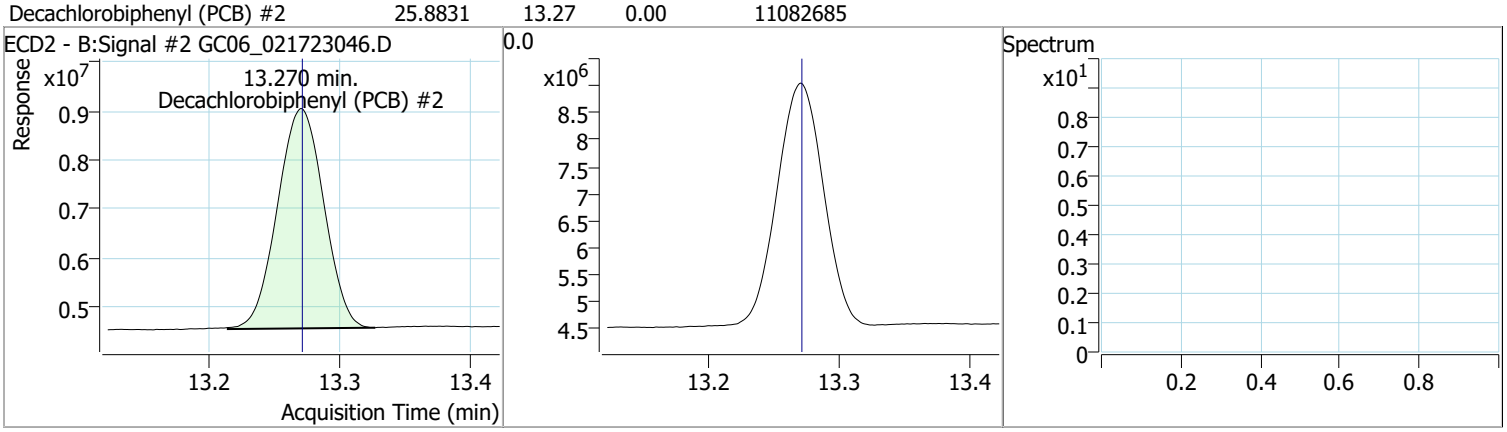
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	15.5252	11.65	-0.01	490223				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	31.5757	11.93	0.00	3745159				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	25.8831	13.27	0.00	11082685				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	479661-007	Client ID:	ARCH-C4E-DG-2 TO 2.5-230216-P-FB
Seqnum:	453069687047	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_021723047	Batch:	307899	Time:	17-FEB-2023 22:46
Cal:	453057263001	Caldate:	08-FEB-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	132.6	~~1.3~~ ~~FP~~	0.42	103%	0.50		x u
Aroclor-1016 Peak # 1	B	40.39	0.40	0.31	27%			
Aroclor-1016 Peak # 2	B	5.067	0.05	0.06	18%			
Aroclor-1016 Peak # 3	B	122.8	1.23	0.85	36%			
Aroclor-1016 Peak # 4	B	0.5645	0.01	0.07	170%			
Aroclor-1016 Peak # 5	B	494.3	4.94	0.83	142%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	22.18	ND	0.30	29%	0.50		u
Aroclor-1260 Peak # 1	B	51.23	0.51	0.14	112%			
Aroclor-1260 Peak # 2	B	13.67	0.14	0.01	165%			
Aroclor-1260 Peak # 3	B	6.256	0.06	0.06	11%			
Aroclor-1260 Peak # 4	B	33.18	0.33	0.31	7%			
Aroclor-1260 Peak # 5	B	6.550	0.07	0.96	175%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	31.17	0.5000	0.3117	62	19-121	c- u
Decachlorobiphenyl (PCB)	B	27.29	0.5000	0.2729	55	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR
CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	6659056	**???**	**-100.00 ***
1-bromo-2-nitrobenzene (1268)	A	1543460	**???**	**-100.00 ***

ISTD (CCV gc06_021723029)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	8293841	6623172	-20.14
1-bromo-2-nitrobenzene (PCB)	A	1858745	1455184	-21.71

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR
CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.43	**???**	
1-bromo-2-nitrobenzene (1268)	A	4.19	**???**	

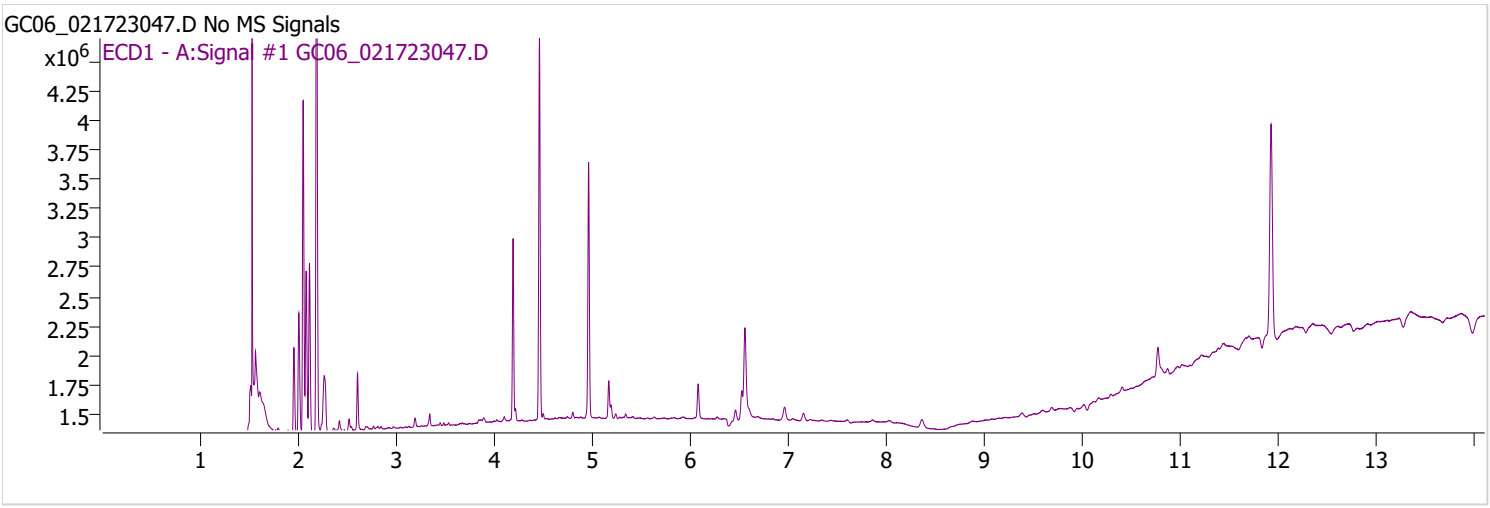
ISTD (CCV gc06_021723029)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.20	4.19	-0.01

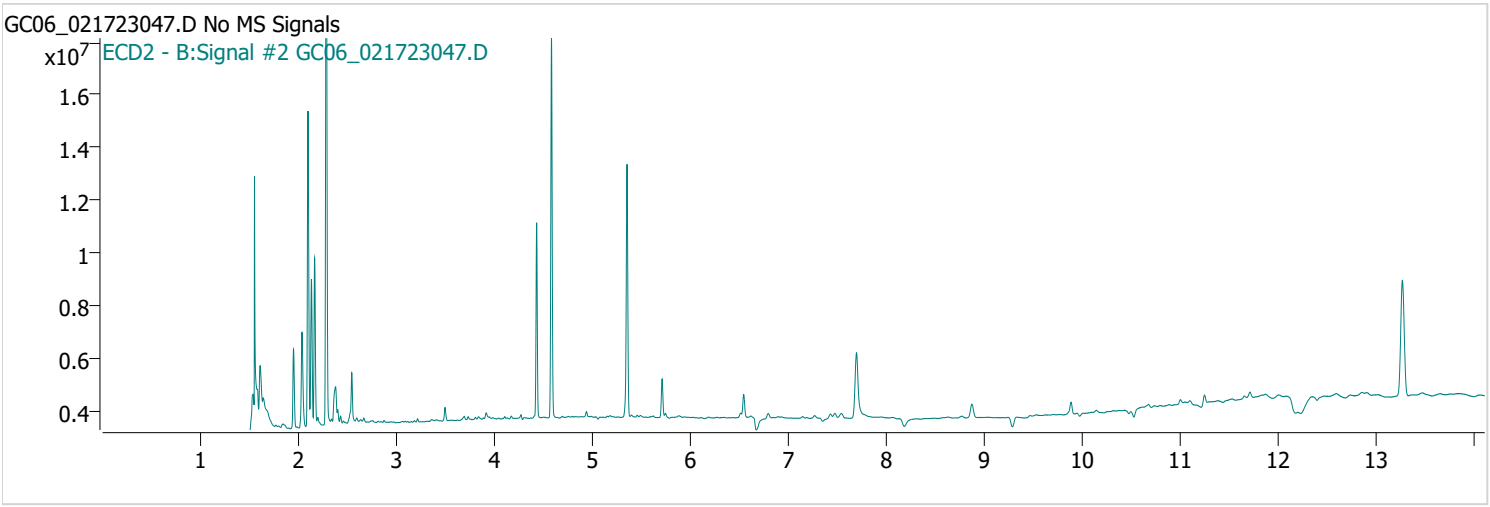
-=low bias c=CCV u=use x=false positive

Analyst: MES 02/20/23 **Reviewer:** LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723047.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 10:46:30 PM
Sample Name	479661-007, 307899, 1	Instrument	SVOA-GC06
Vial	26	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
Ref Library			



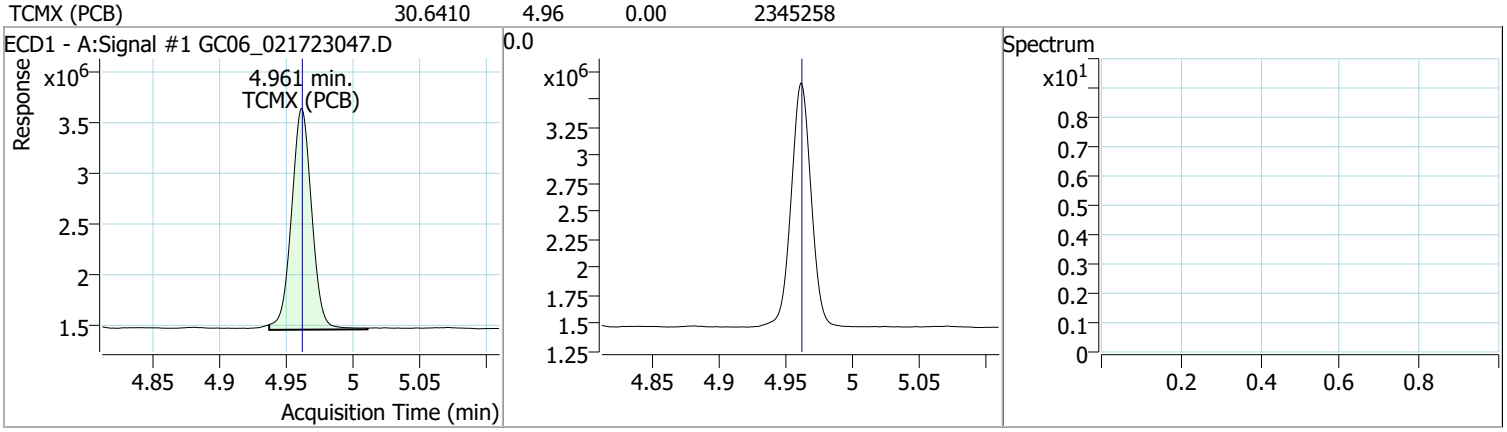


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.190	0.0	1455183.840	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.431	0.0	6623172.234	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	4.961	0.0	2345258.445	30.6410	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 153.20%		*	
S TCMX (PCB) #2	5.353	0.0	10483998.471	31.1723	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 155.86%		*	
S Decachlorobiphenyl (PCB)	11.928	0.0	3549100.949	31.9671	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 159.84%		*	
S Decachlorobiphenyl (PCB) #2	13.268	0.0	10910908.508	27.2878	ng/ml		-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 136.44%			
Target Compounds							QValue

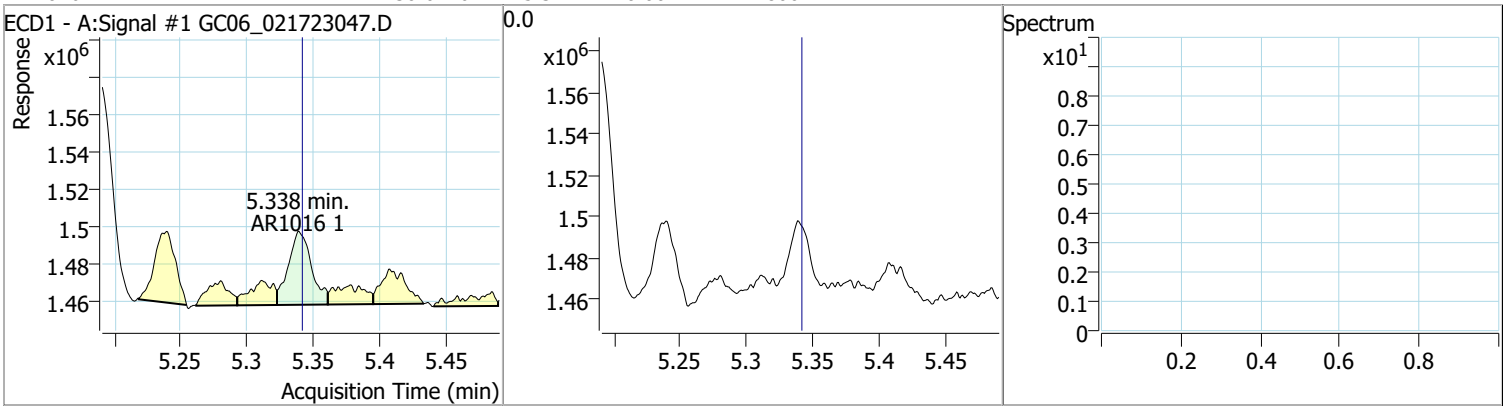
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.338	0.0	48001.582	30.6276	ng/ml	100
T AR1016 2	5.631	0.0	25959.999	6.0784	ng/ml	100
T AR1016 1 #2	5.886	0.0	279508.891	40.3929	ng/ml	100
T AR1016 3	6.079	0.0	388175.229	85.3399	ng/ml	100
T AR1016 4	6.273	0.0	24496.931	6.9864	ng/ml	100
T AR1016 2 #2	6.269	0.0	81956.649	5.0675	ng/ml	100
T AR1016 5	6.460	0.0	142469.709	83.3400	ng/ml	100
T AR1016 3 #2	6.794	0.0	2430717.169	122.8331	ng/ml	100
T AR1016 4 #2	7.033	0.0	7965.158	0.5645	ng/ml	100
T AR1016 5 #2	7.696	0.0	5652305.549	494.3329	ng/ml	100
T AR1260 1	8.703	0.0	85234.728	14.4700	ng/ml	100
T AR1260 2	9.084	0.0	10603.920	1.2910	ng/ml	100
T AR1260 3	9.593	0.0	52053.210	5.6163	ng/ml	100
T AR1260 1 #2	9.886	0.0	1070900.459	51.2341	ng/ml	100
T AR1260 4	10.019	0.0	150851.918	30.8595	ng/ml	100
T AR1260 2 #2	10.144	0.0	337076.581	13.6654	ng/ml	100
T AR1260 3 #2	10.496	0.0	201166.607	6.2556	ng/ml	100
T AR1260 5	10.773	0.0	535742.329	96.2648	ng/ml	100
T AR1260 4 #2	11.002	0.0	559864.961	33.1839	ng/ml	100
T AR1260 5 #2	11.653	0.0	193123.481	6.5496	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

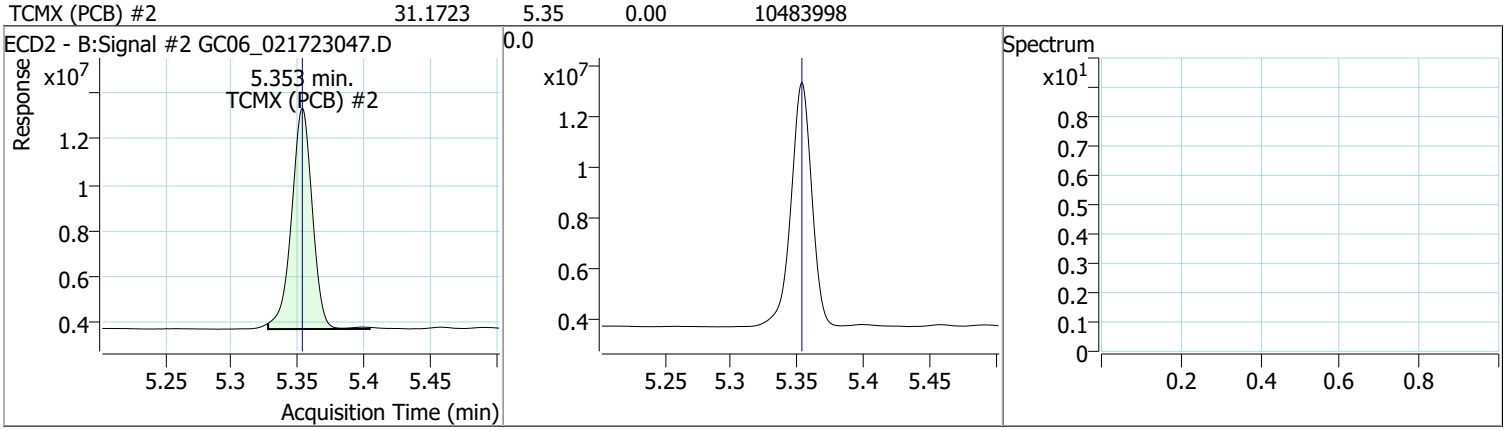
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	30.6410	4.96	0.00	2345258				



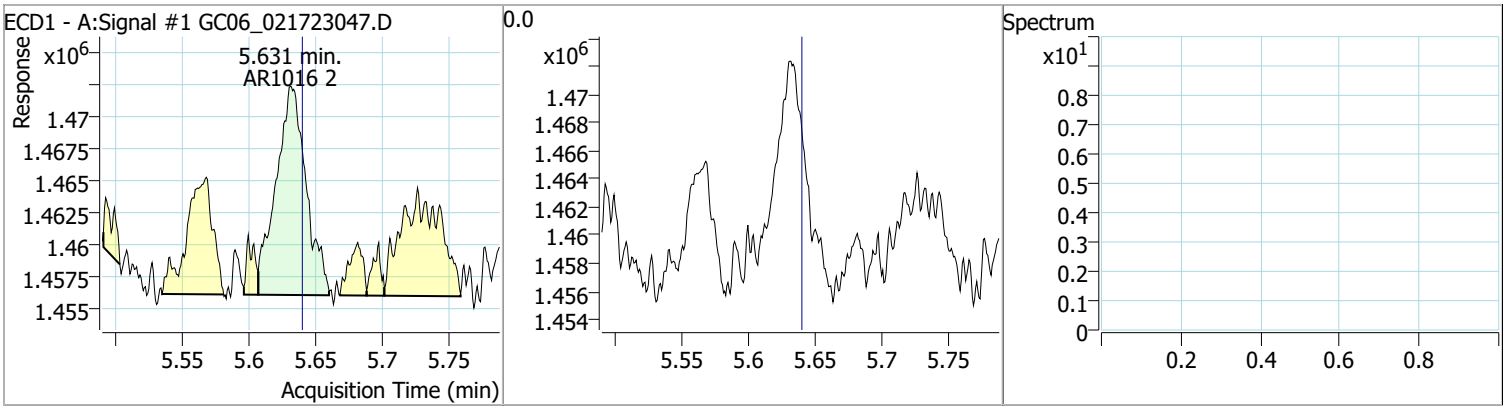
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	30.6276	5.34	0.00	48002				



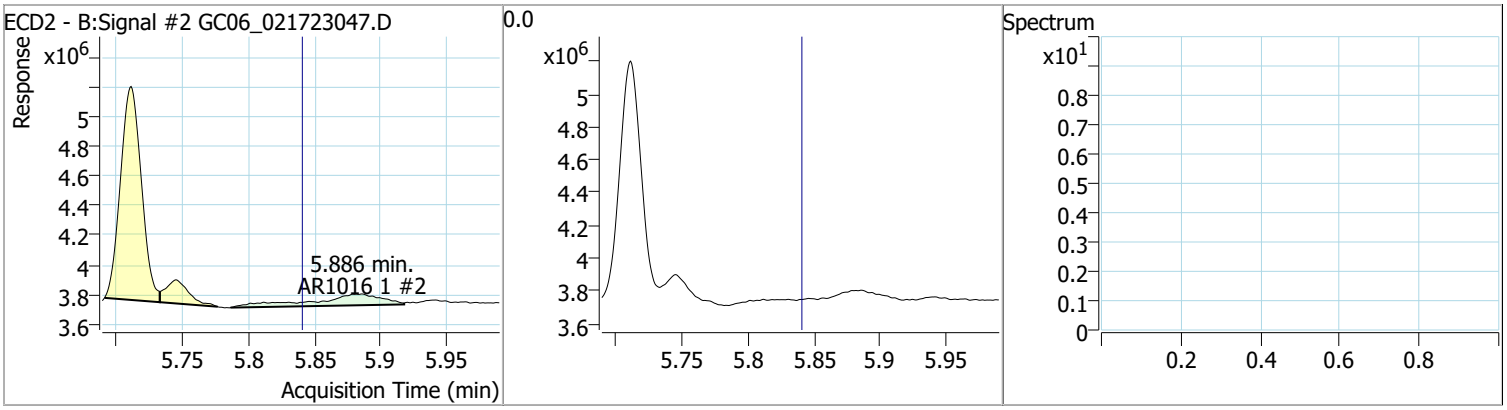
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	31.1723	5.35	0.00	10483998				



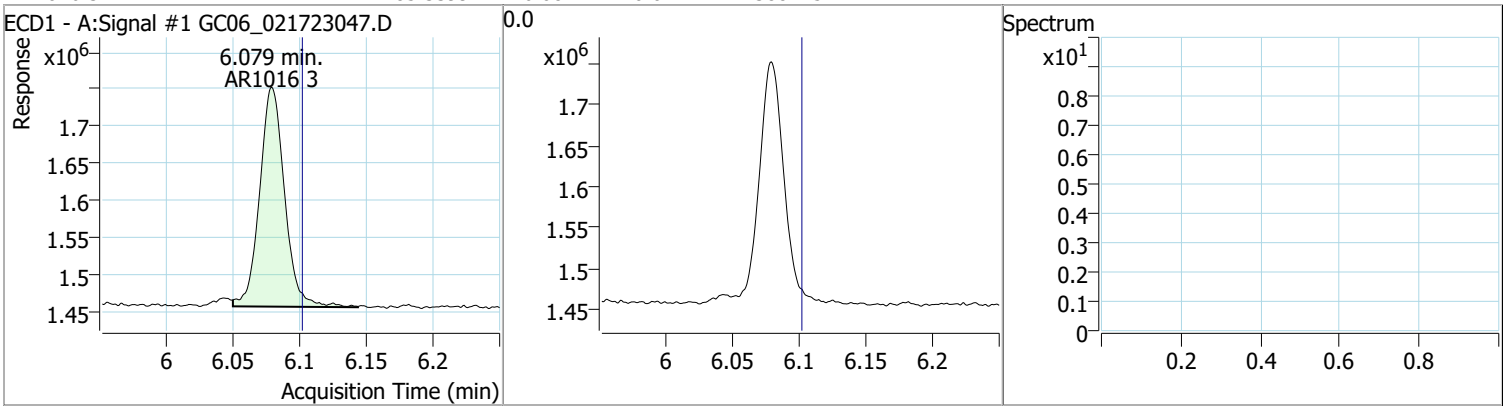
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	6.0784	5.63	-0.01	25960				



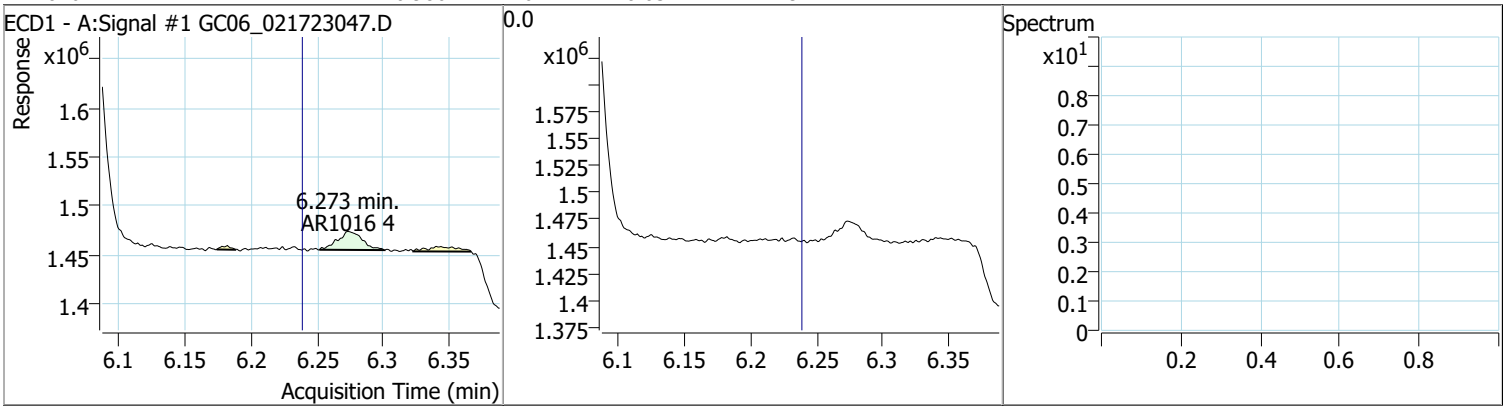
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	40.3929	5.89	0.04	279509				



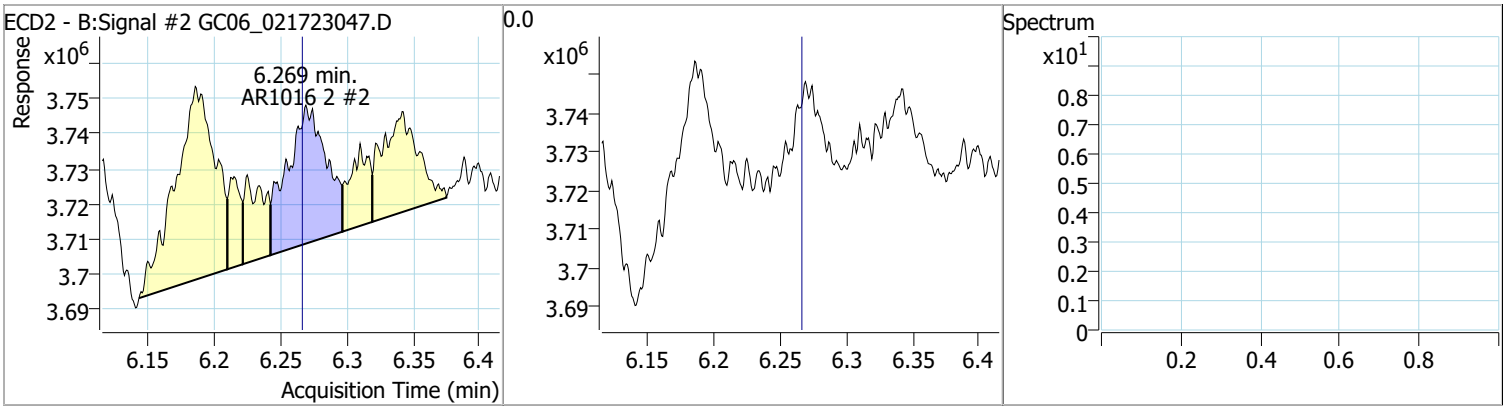
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AR1016 3	85.3399	6.08	-0.02	388175				



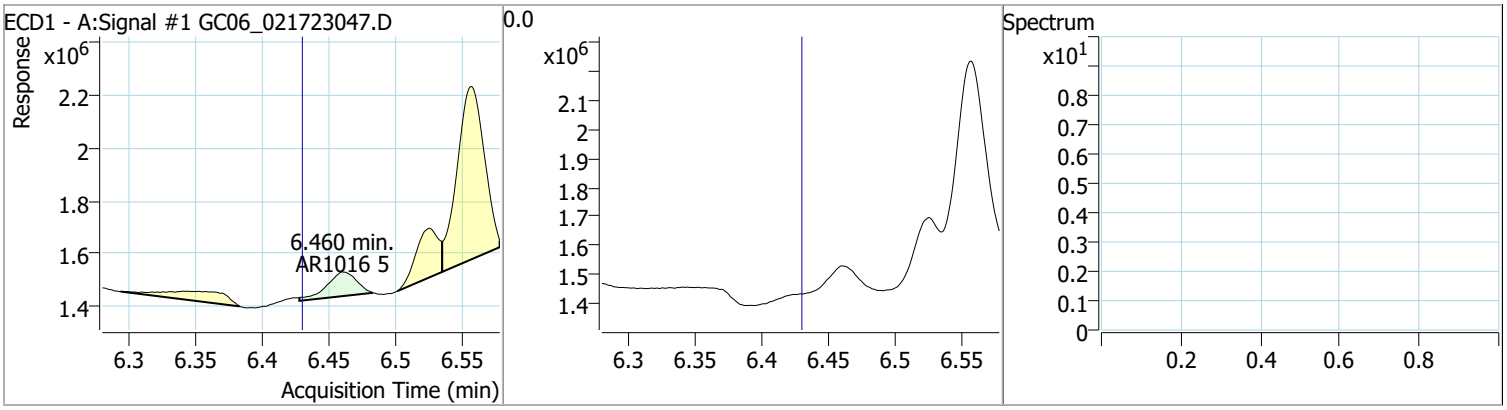
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	6.9864	6.27	0.03	24497				



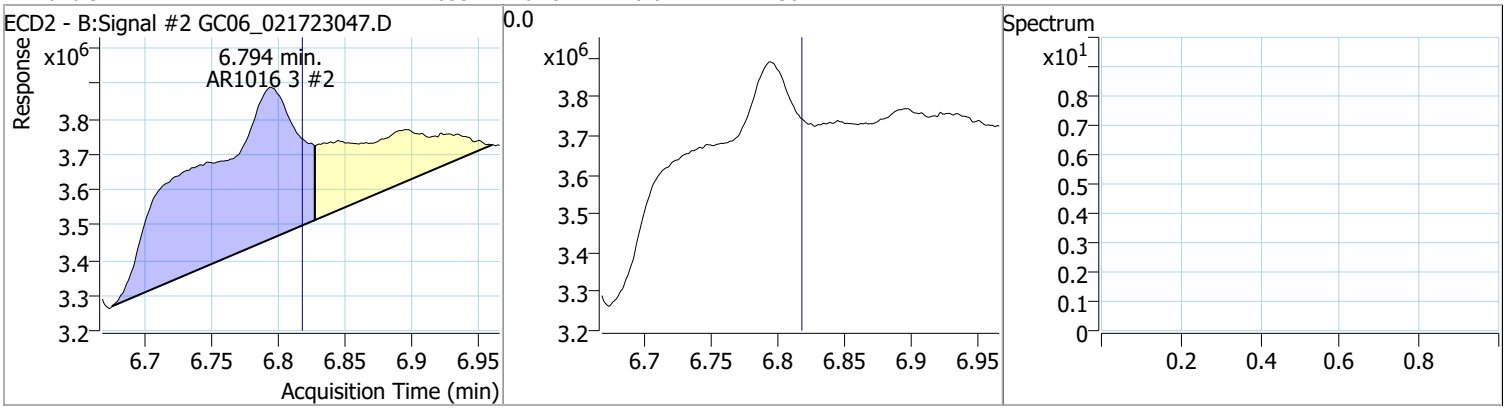
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	5.0675	6.27	0.00	81957				



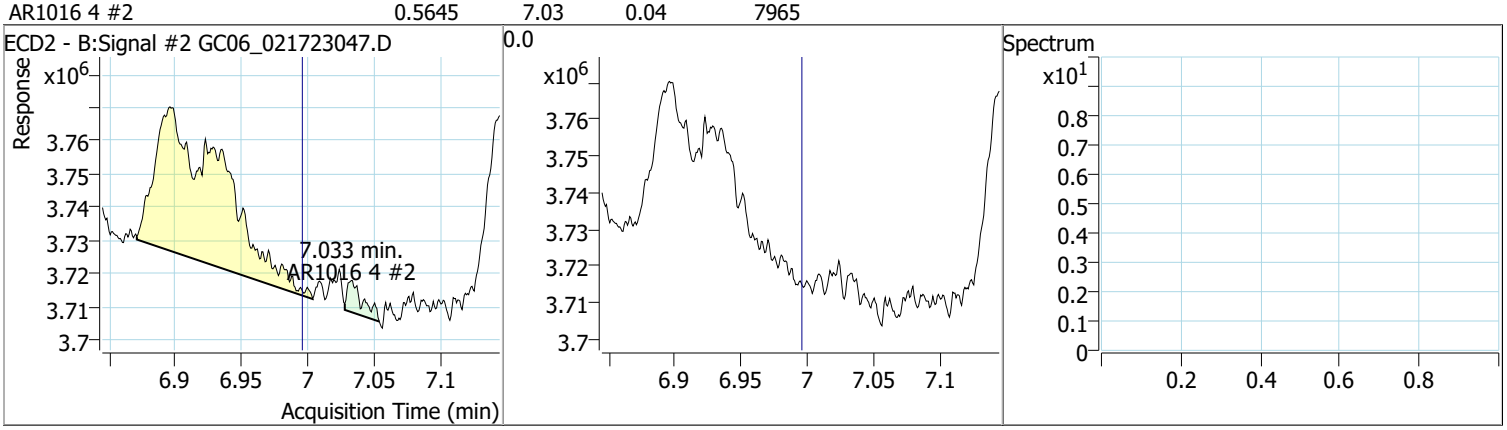
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	83.3400	6.46	0.03	142470				



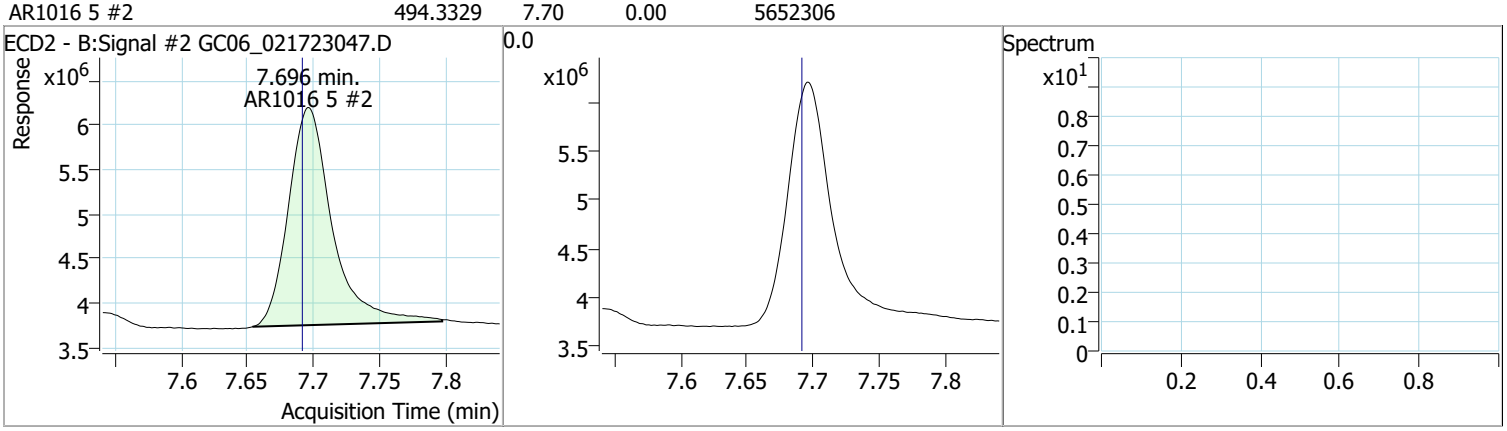
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	122.8331	6.79	-0.02	2430717				



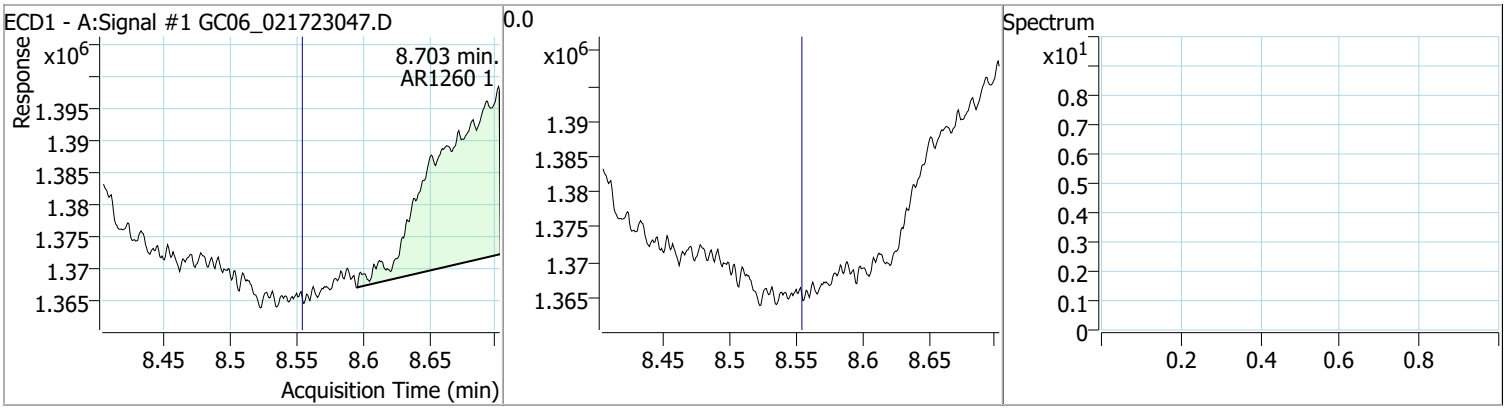
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	0.5645	7.03	0.04	7965				



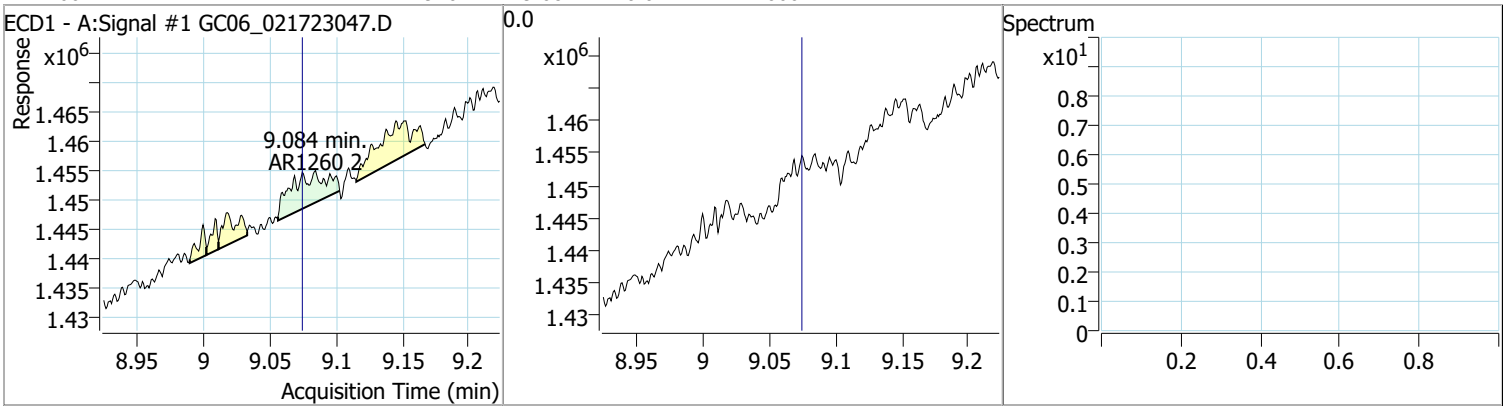
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	494.3329	7.70	0.00	5652306				



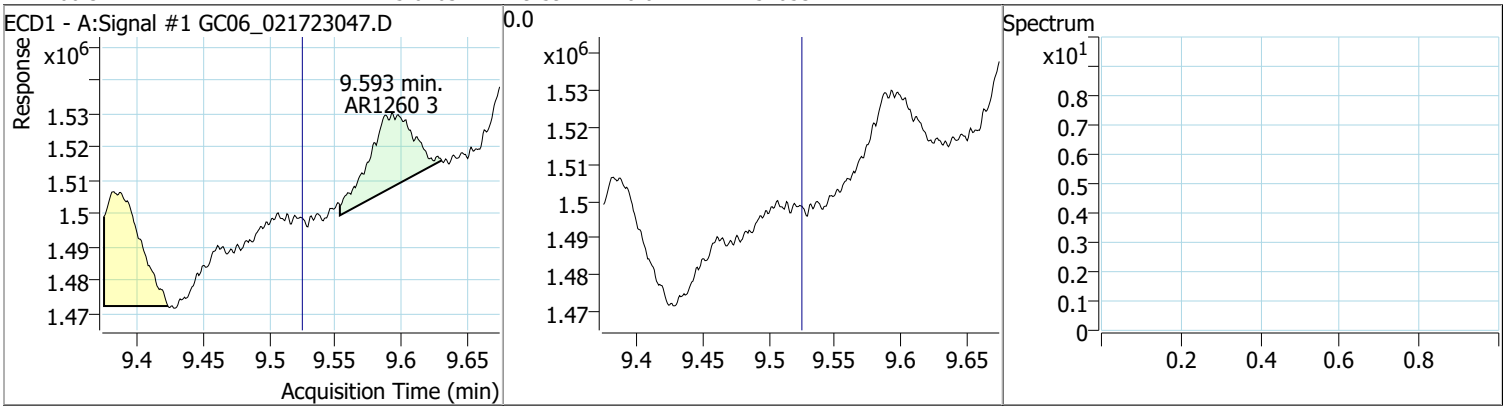
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	14.4700	8.70	0.15	85235				



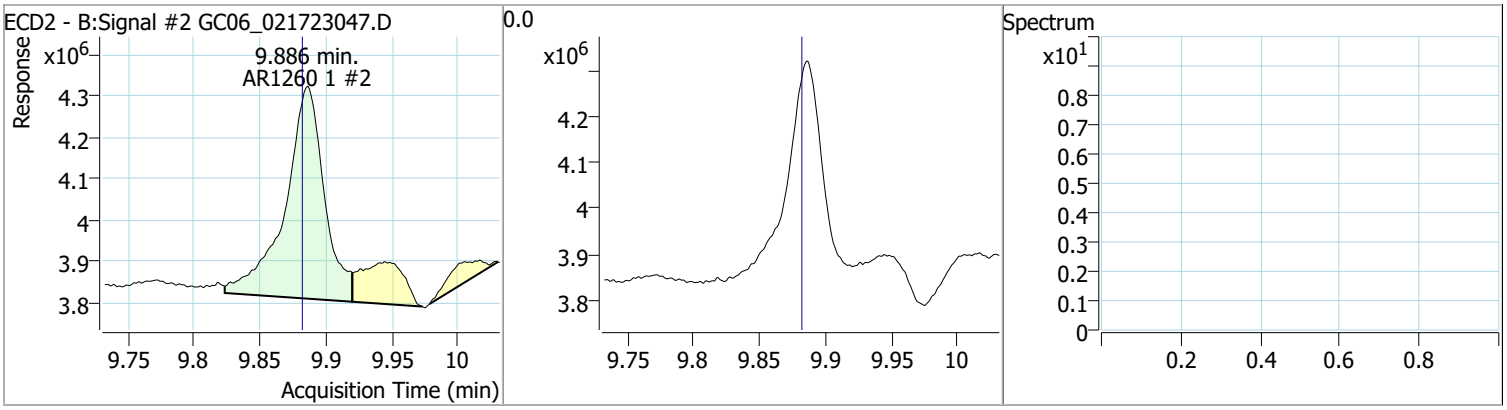
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1.2910	9.08	0.01	10604				



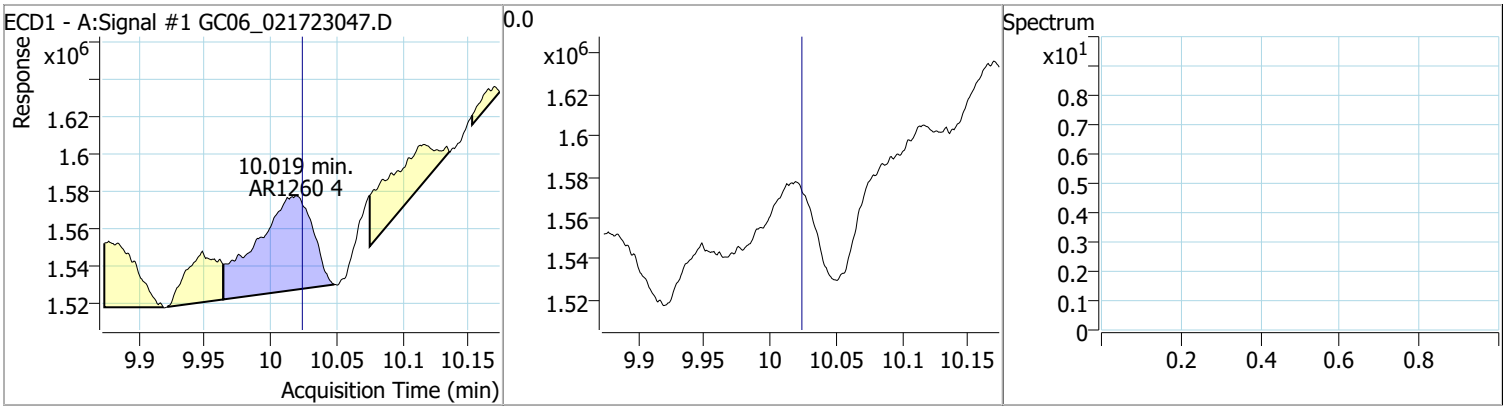
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	5.6163	9.59	0.07	52053				



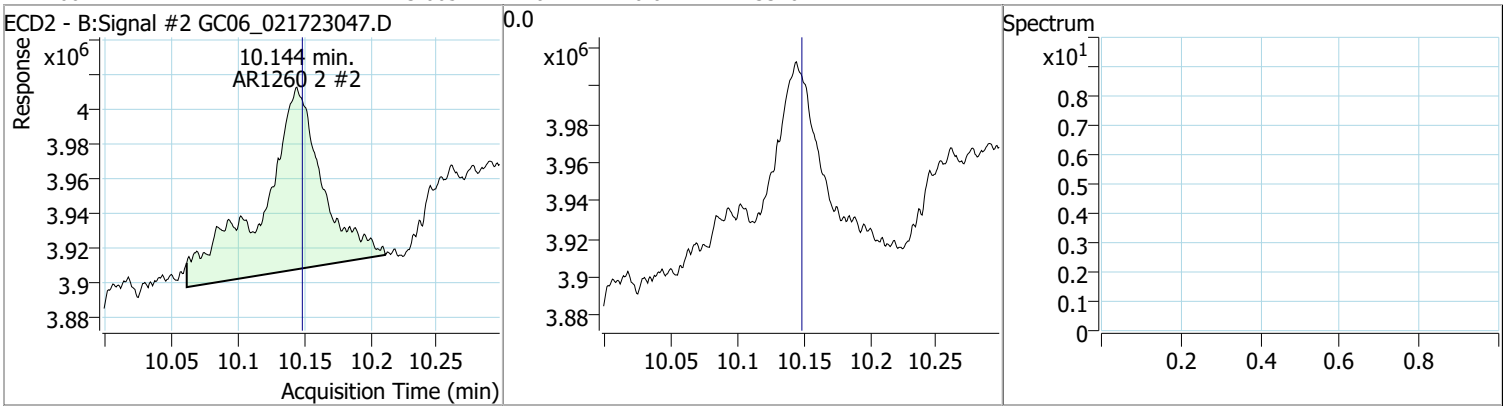
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	51.2341	9.89	0.00	1070900				



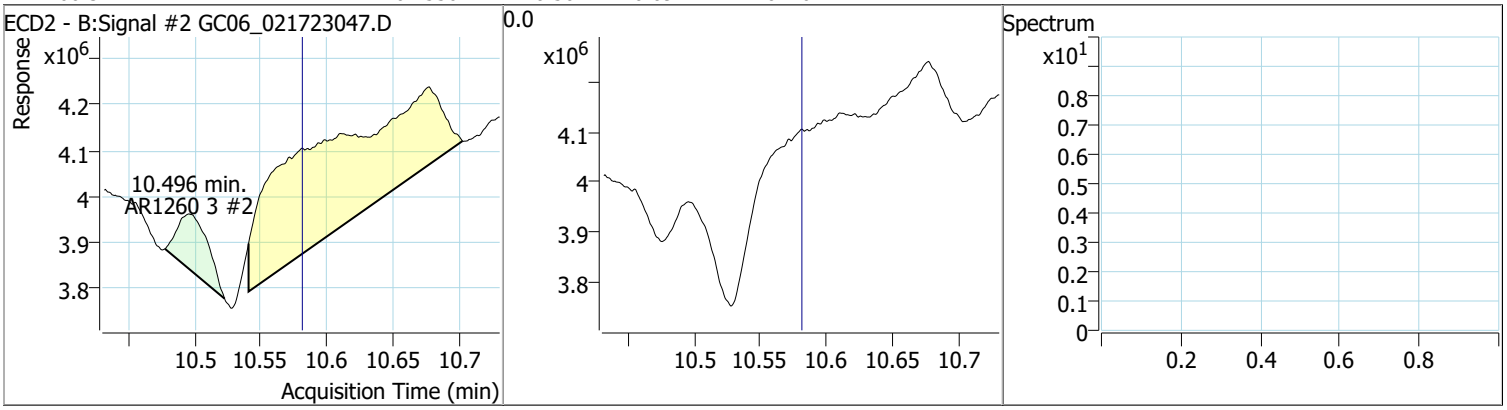
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	30.8595	10.02	-0.01	150852				



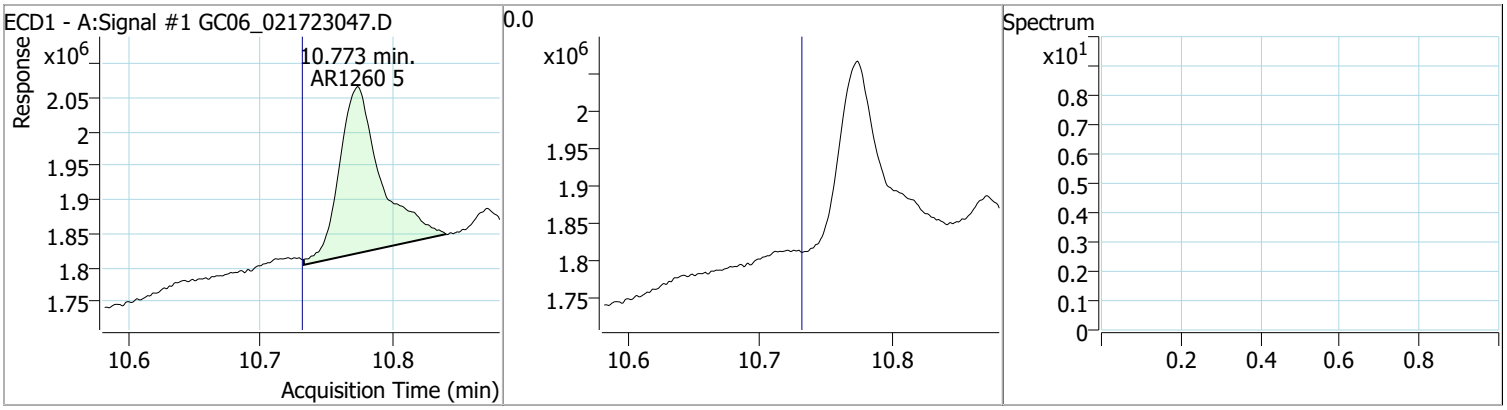
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	13.6654	10.14	-0.01	337077				



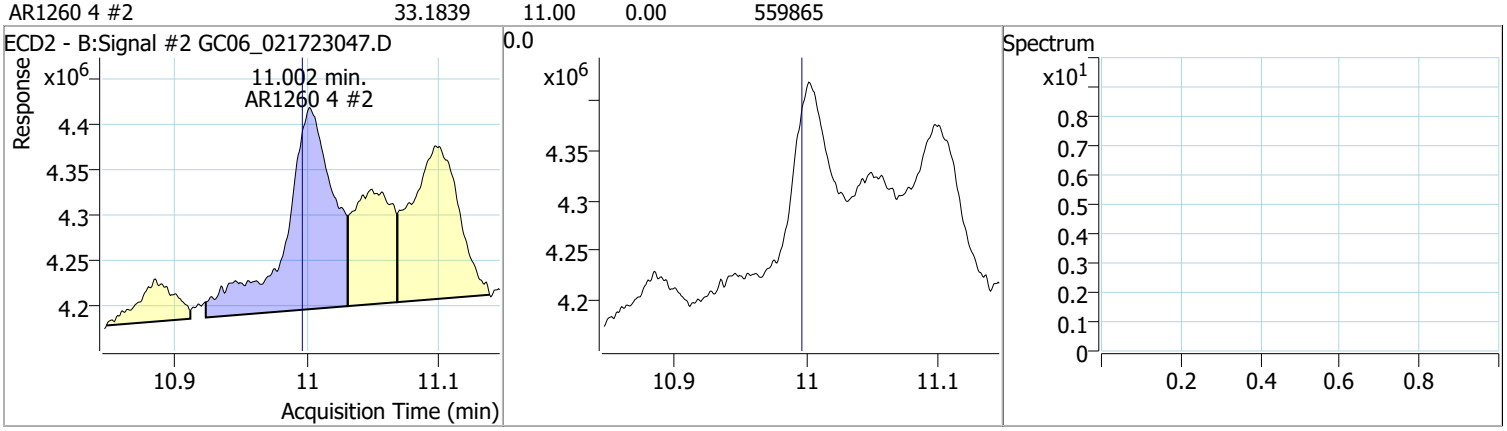
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	6.2556	10.50	-0.09	201167				



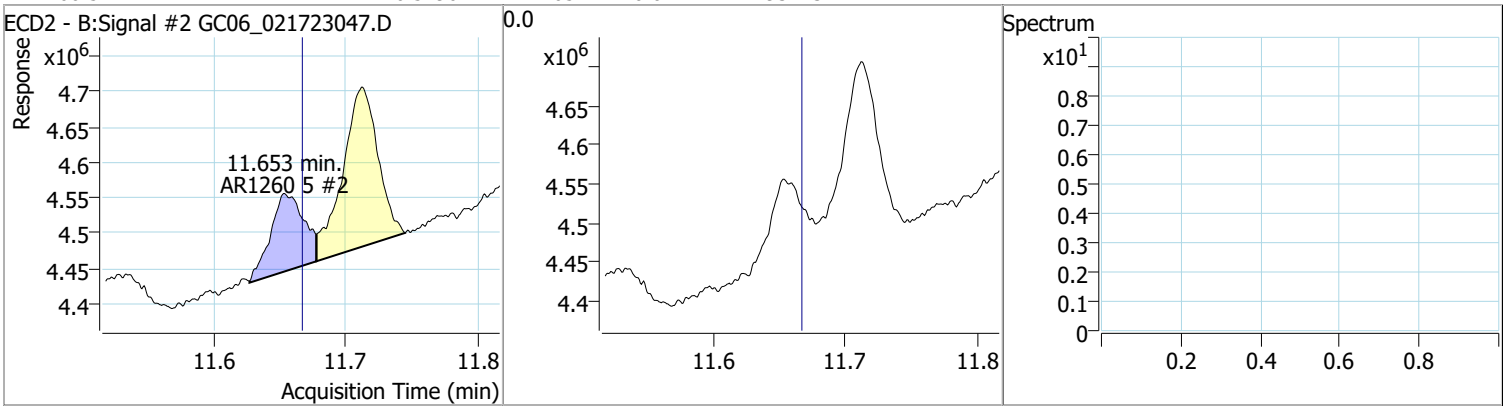
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	96.2648	10.77	0.04	535742				



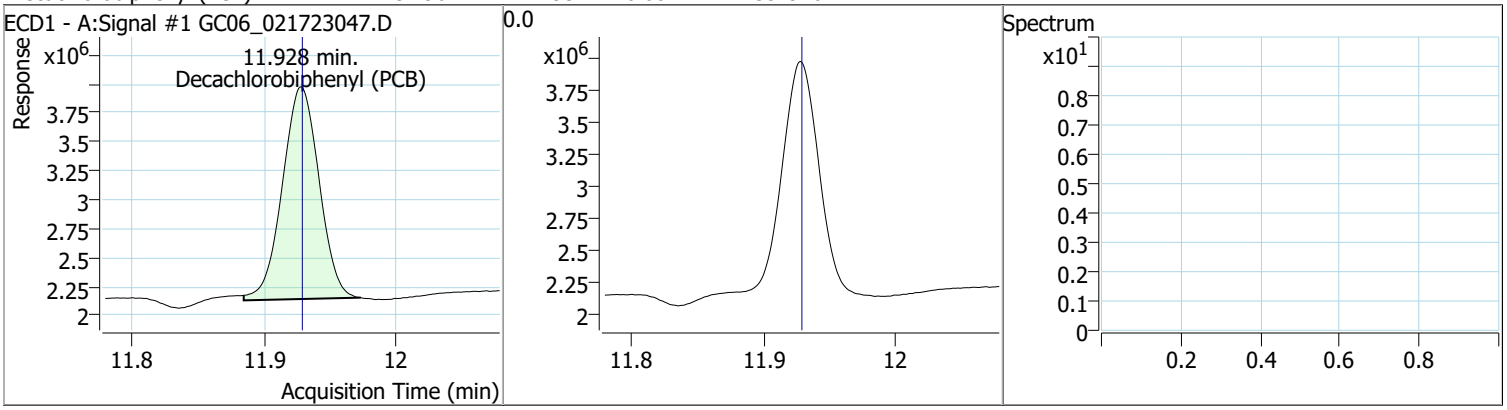
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	33.1839	11.00	0.00	559865				



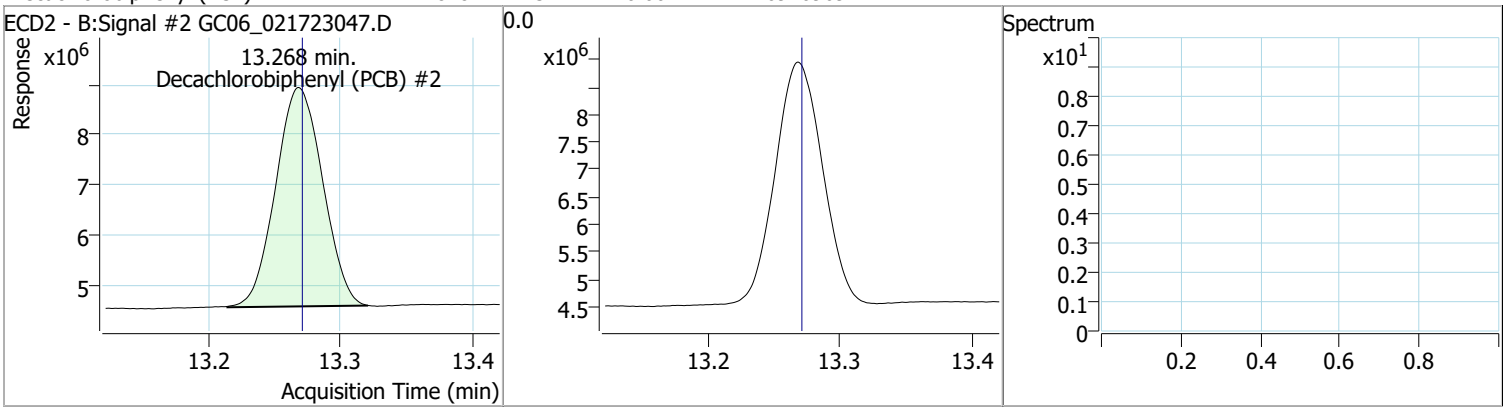
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	6.5496	11.65	-0.01	193123				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	31.9671	11.93	0.00	3549101				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	27.2878	13.27	0.00	10910909				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	479661-009	Client ID:	ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-P-LA
Seqnum:	453069687048	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_021723048	Batch:	307899	Time:	17-FEB-2023 23:04
Cal:	453057263001	Caldate:	08-FEB-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	45.57	ND	0.54	16%	0.50		u
Aroclor-1016 Peak # 1	B	30.72	0.31	0.29	7%			
Aroclor-1016 Peak # 2	B	18.19	0.18	0.09	69%			
Aroclor-1016 Peak # 3	B	145.4	1.45	0.44	107%			
Aroclor-1016 Peak # 4	B	19.71	0.20	1.30	147%			
Aroclor-1016 Peak # 5	B	13.86	0.14	0.57	121%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	16.08	ND	0.32	67%	0.50		u
Aroclor-1260 Peak # 1	B	37.63	0.38	0.03	169%			
Aroclor-1260 Peak # 2	B	7.620	0.08	0.01	160%			
Aroclor-1260 Peak # 3	B	7.828	0.08	0.06	22%			
Aroclor-1260 Peak # 4	B	21.35	0.21	0.60	95%			
Aroclor-1260 Peak # 5	B	5.967	0.06	0.91	175%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	30.25	0.5000	0.3025	60	19-121	c- u
Decachlorobiphenyl (PCB)	B	25.68	0.5000	0.2568	51	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	6659056	**???**	**-100.00 ***
1-bromo-2-nitrobenzene (1268)	A	1543460	**???**	**-100.00 ***

ISTD (CCV gc06_021723029)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	8293841	7073633	-14.71
1-bromo-2-nitrobenzene (PCB)	A	1858745	1549952	-16.61

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.43	**???**	
1-bromo-2-nitrobenzene (1268)	A	4.19	**???**	

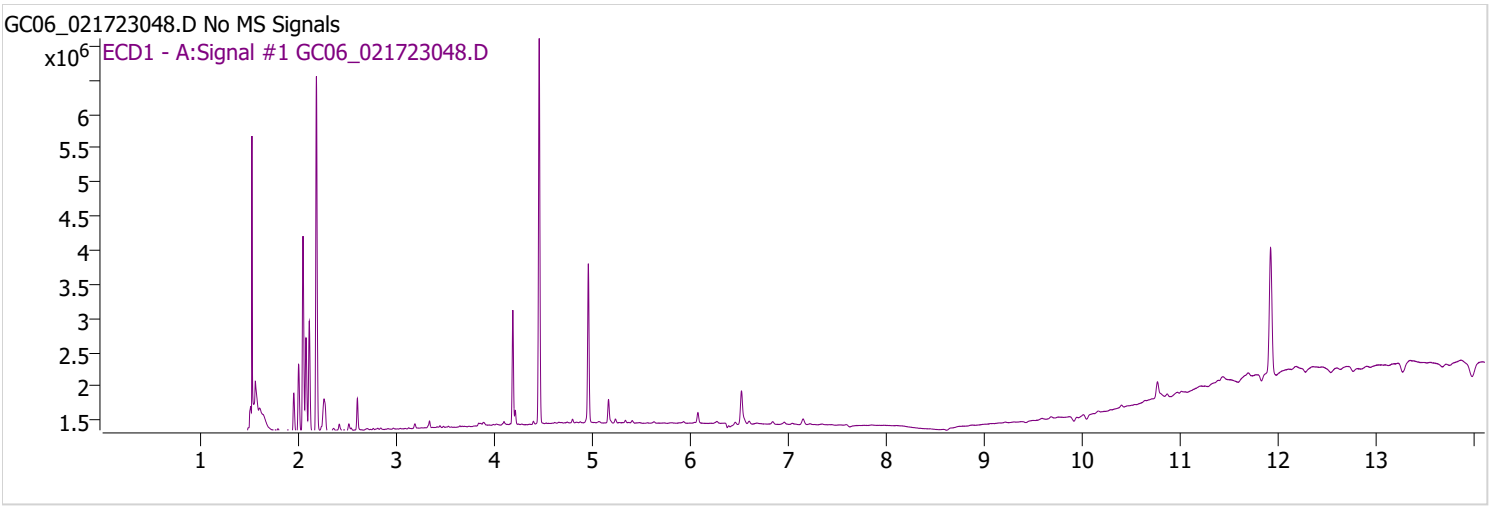
ISTD (CCV gc06_021723029)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.20	4.19	-0.01

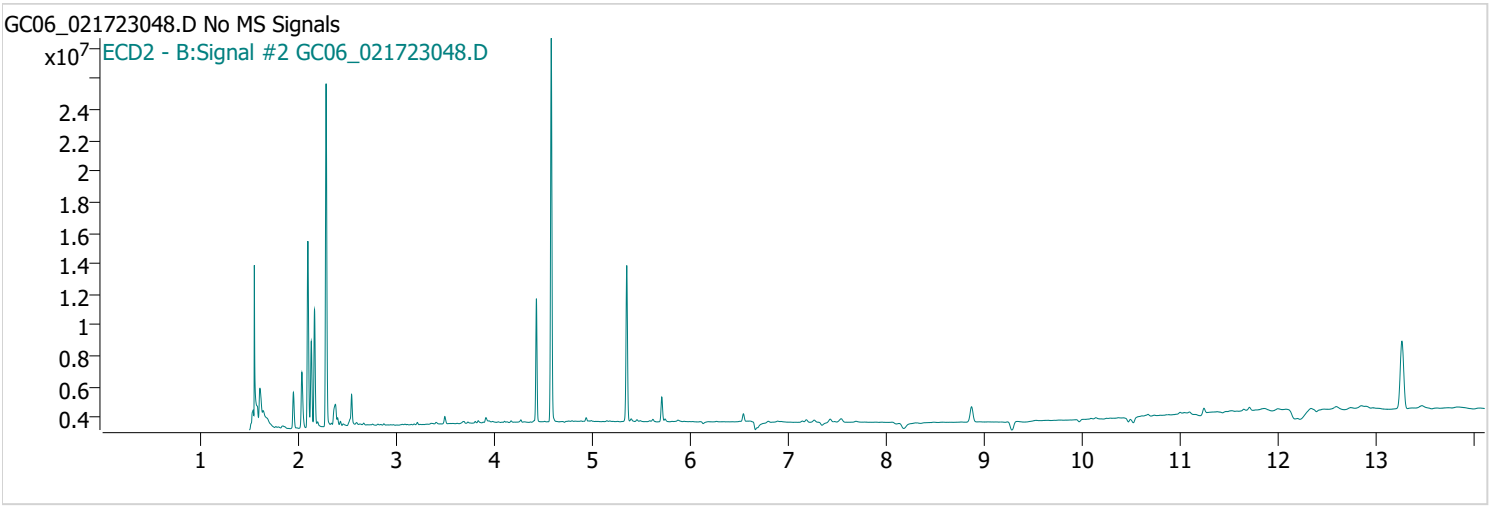
-=low bias c=CCV u=use

Analyst: MES 02/20/23 **Reviewer:** LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723048.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 11:04:51 PM
Sample Name	479661-009, 307899, 1	Instrument	SVOA-GC06
Vial	27	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
Ref Library			



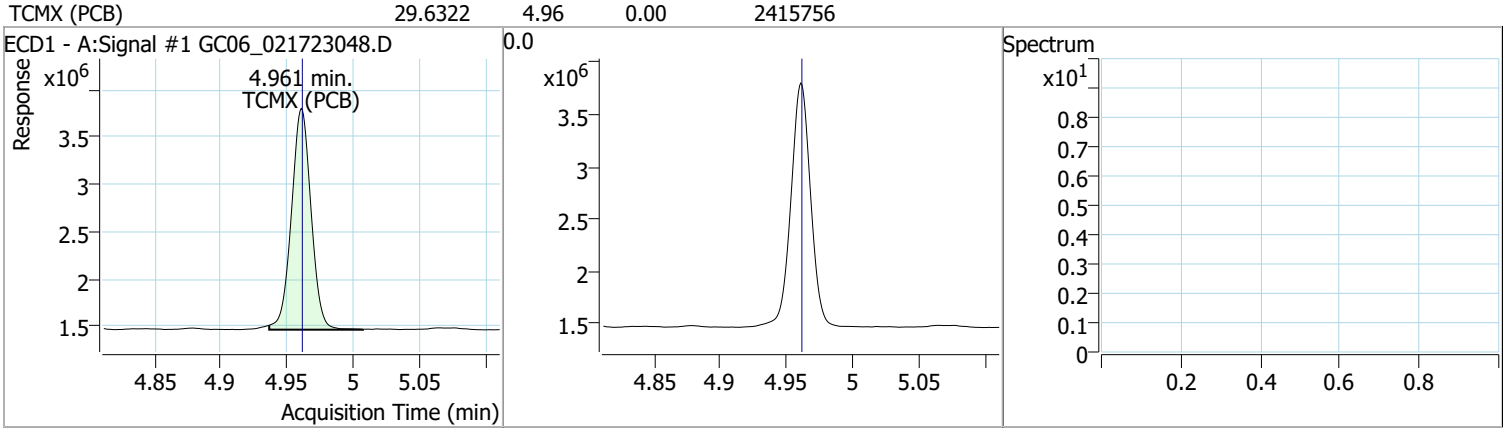


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.190	0.0	1549952.188	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.431	0.0	7073633.002	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	4.961	0.0	2415755.980	29.6322	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 148.16%			
S TCMX (PCB) #2	5.353	0.0	10864731.920	30.2471	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 151.24%		*	
S Decachlorobiphenyl (PCB)	11.928	0.0	3714440.095	31.4107	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 157.05%		*	
S Decachlorobiphenyl (PCB) #2	13.269	0.0	10968110.001	25.6841	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 128.42%			
Target Compounds							QValue

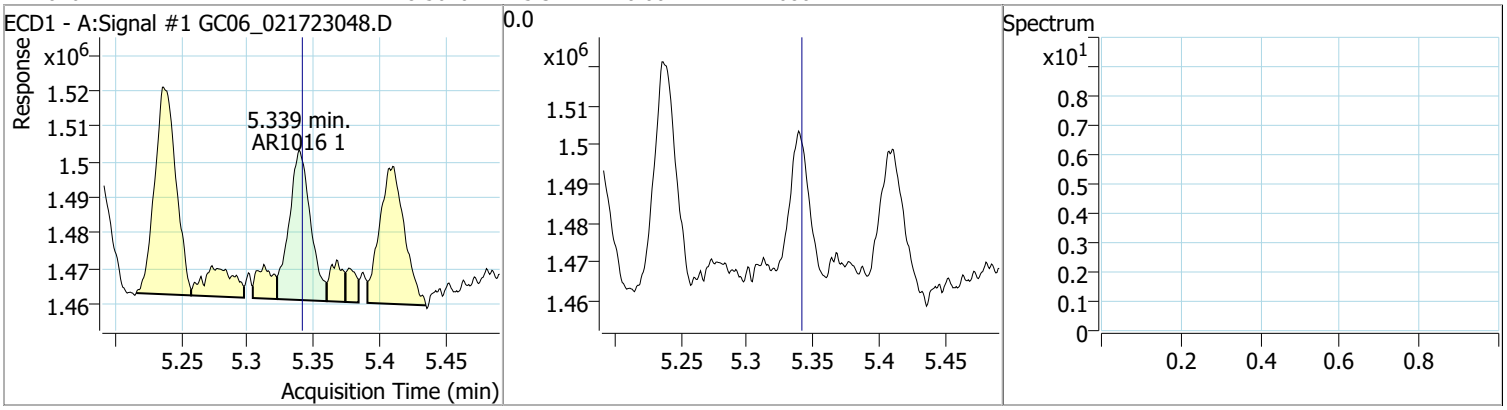
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.339	0.0	47679.506	28.5620	ng/ml	100
T AR1016 2	5.633	0.0	40338.266	8.8675	ng/ml	100
T AR1016 1 #2	5.878	0.0	227056.128	30.7232	ng/ml	100
T AR1016 3	6.080	0.0	212209.763	43.8015	ng/ml	100
T AR1016 4	6.273	0.0	486170.677	130.1754	ng/ml	100
T AR1016 2 #2	6.267	0.0	314141.244	18.1869	ng/ml	100
T AR1016 5	6.461	0.0	103295.579	56.7299	ng/ml	100
T AR1016 3 #2	6.894	0.0	3072384.423	145.3717	ng/ml	100
T AR1016 4 #2	6.894	0.0	296979.176	19.7060	ng/ml	100
T AR1016 5 #2	7.692	0.0	169304.732	13.8639	ng/ml	100
T AR1260 1	8.583	0.0	19739.741	3.1462	ng/ml	100
T AR1260 2	9.072	0.0	7404.169	0.8463	ng/ml	100
T AR1260 3	9.598	0.0	62011.664	6.2816	ng/ml	100
T AR1260 1 #2	9.938	0.0	840122.519	37.6337	ng/ml	100
T AR1260 4	10.018	0.0	312803.070	60.0770	ng/ml	100
T AR1260 2 #2	10.143	0.0	200744.898	7.6201	ng/ml	100
T AR1260 3 #2	10.494	0.0	268857.266	7.8282	ng/ml	100
T AR1260 5	10.773	0.0	540433.830	91.1703	ng/ml	100
T AR1260 4 #2	11.004	0.0	384644.092	21.3465	ng/ml	100
T AR1260 5 #2	11.653	0.0	187926.616	5.9675	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

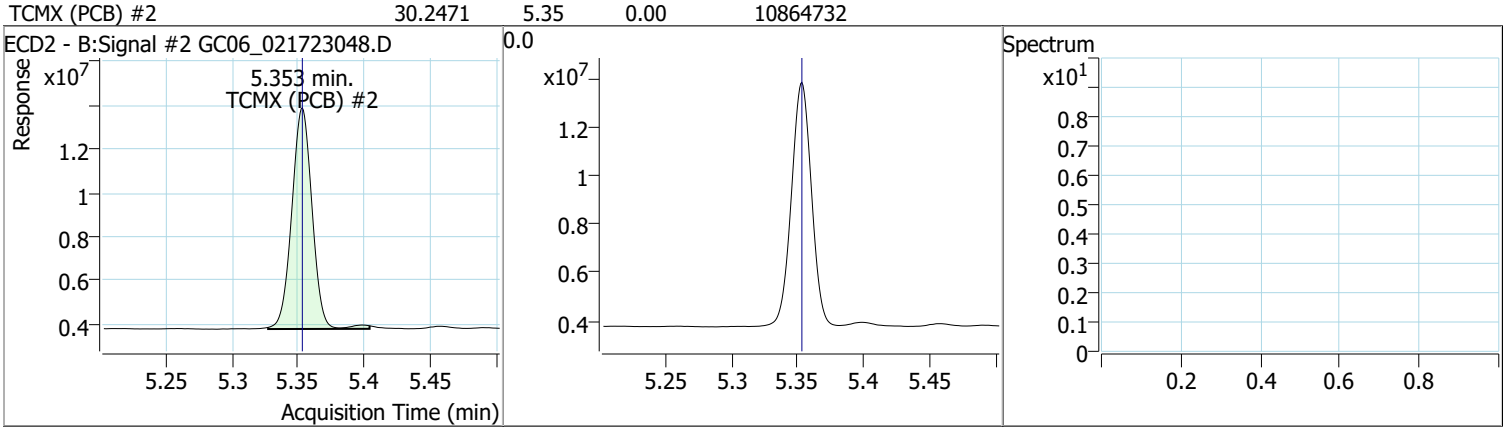
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	29.6322	4.96	0.00	2415756				



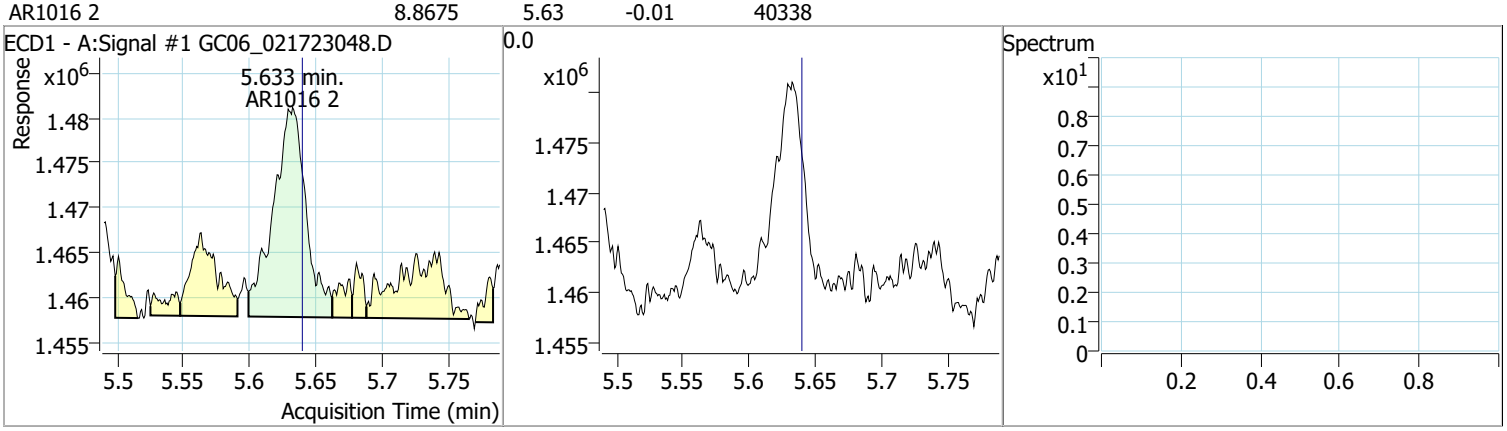
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	28.5620	5.34	0.00	47680				



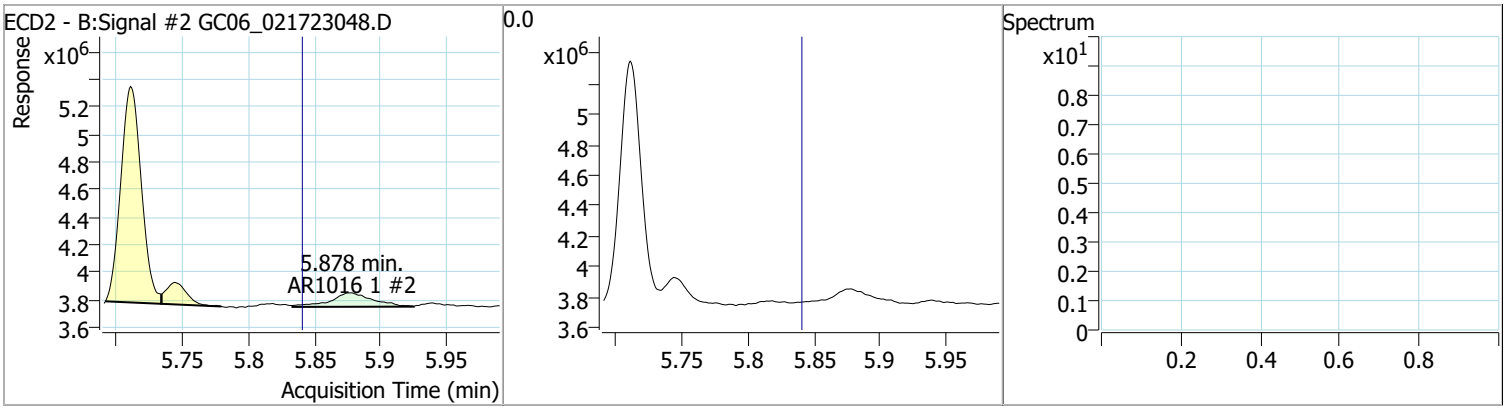
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	30.2471	5.35	0.00	10864732				



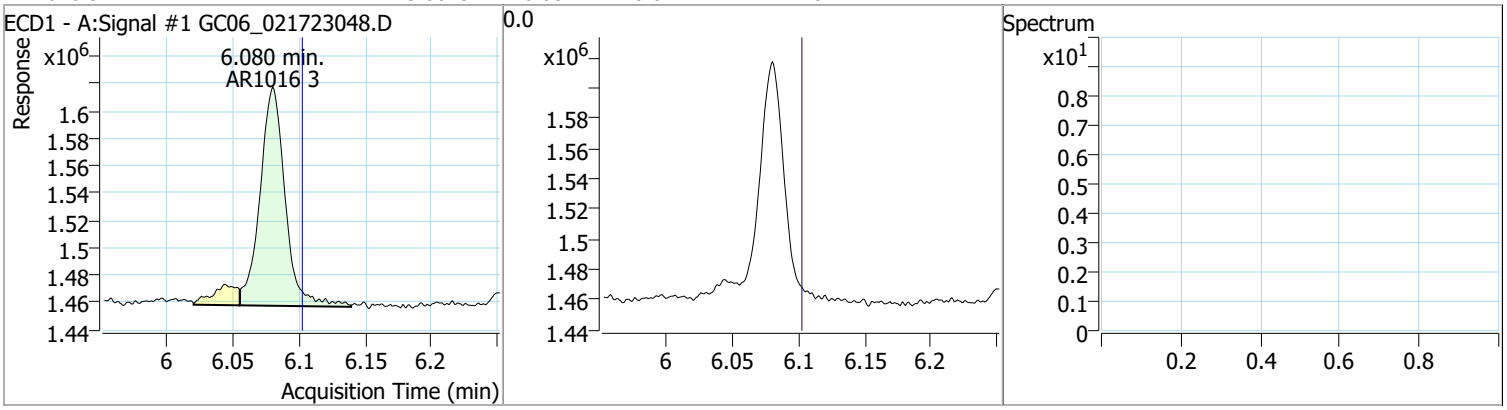
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	8.8675	5.63	-0.01	40338				



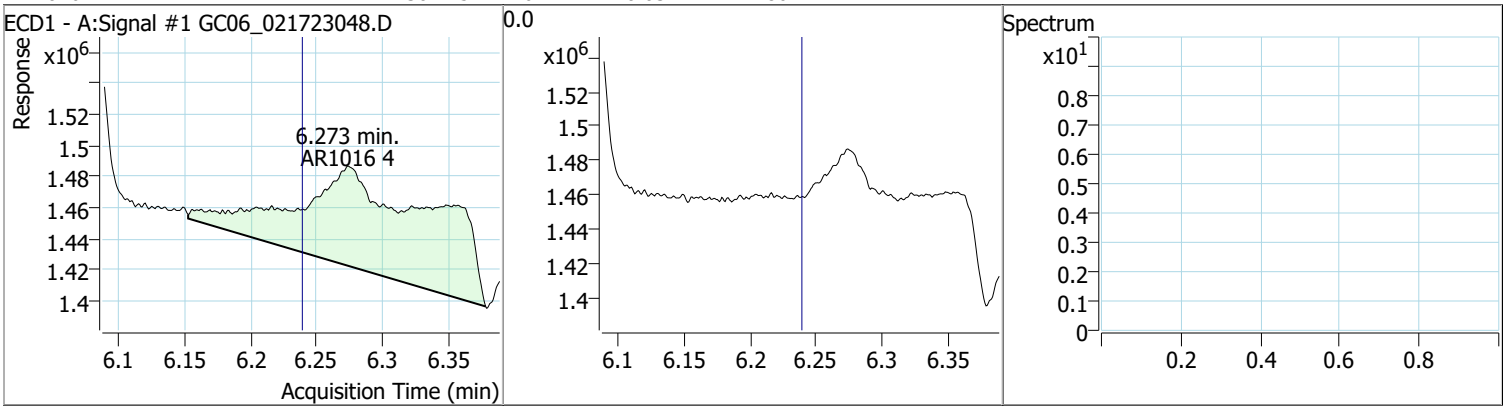
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	30.7232	5.88	0.04	227056				



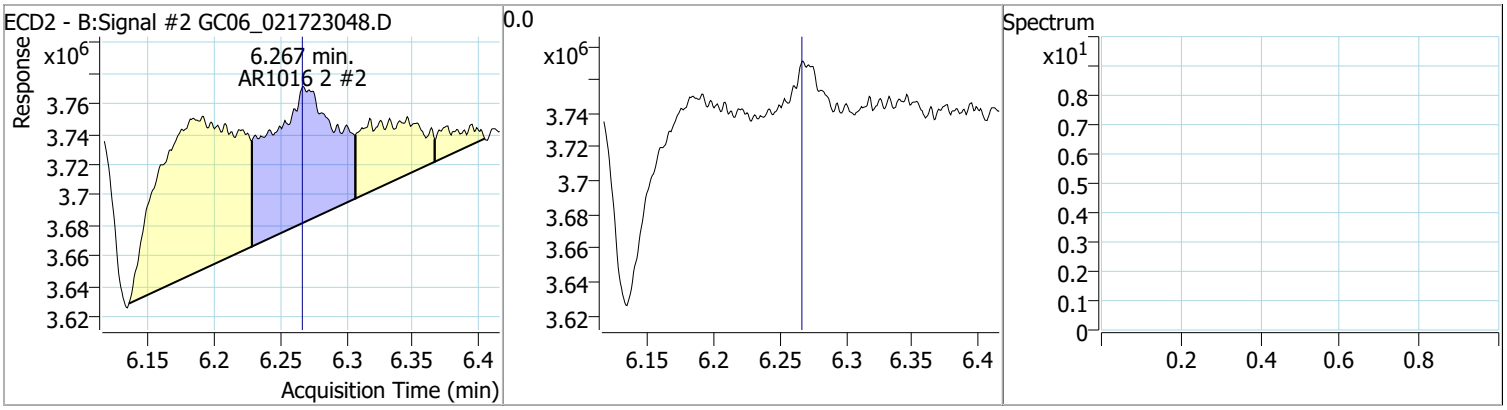
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	43.8015	6.08	-0.02	212210				



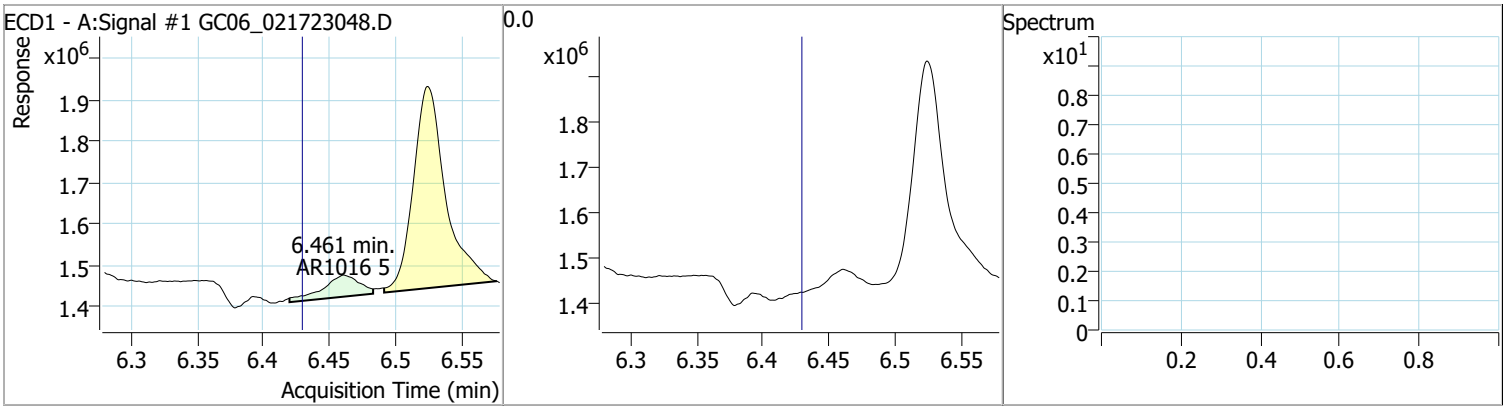
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	130.1754	6.27	0.03	486171				



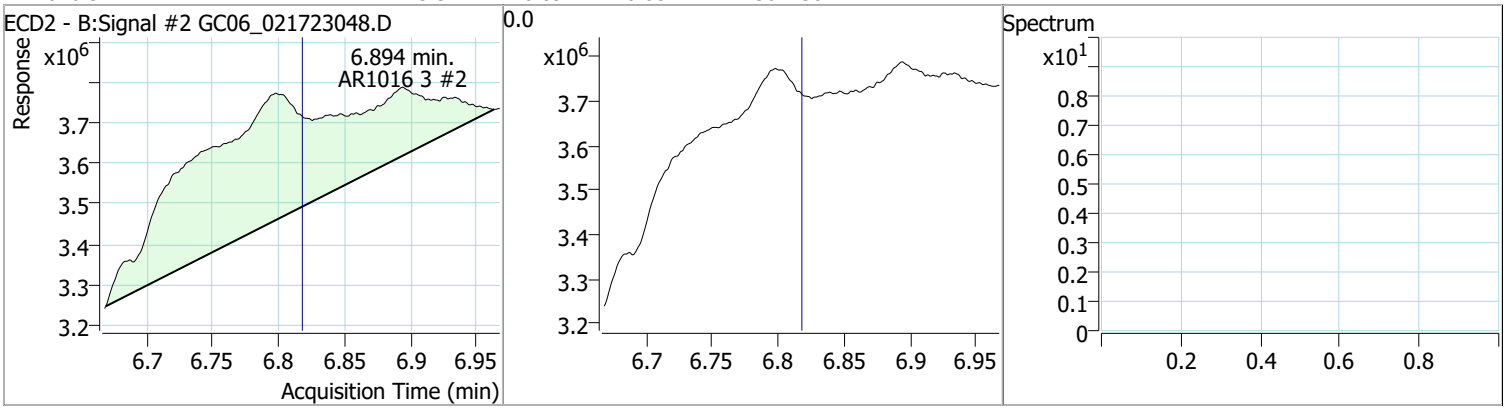
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	18.1869	6.27	0.00	314141				



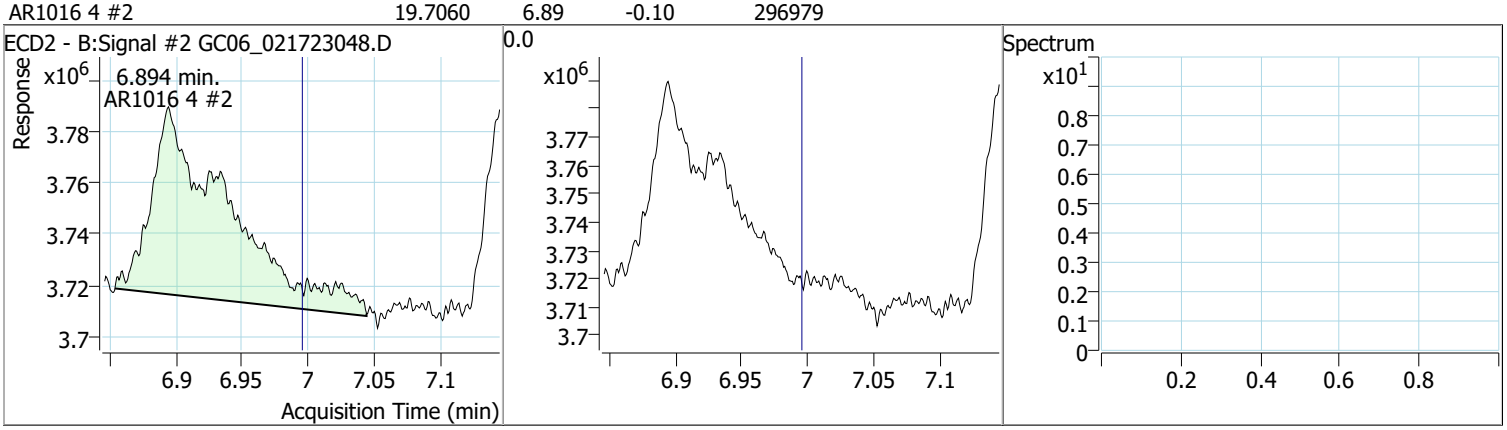
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	56.7299	6.46	0.03	103296				



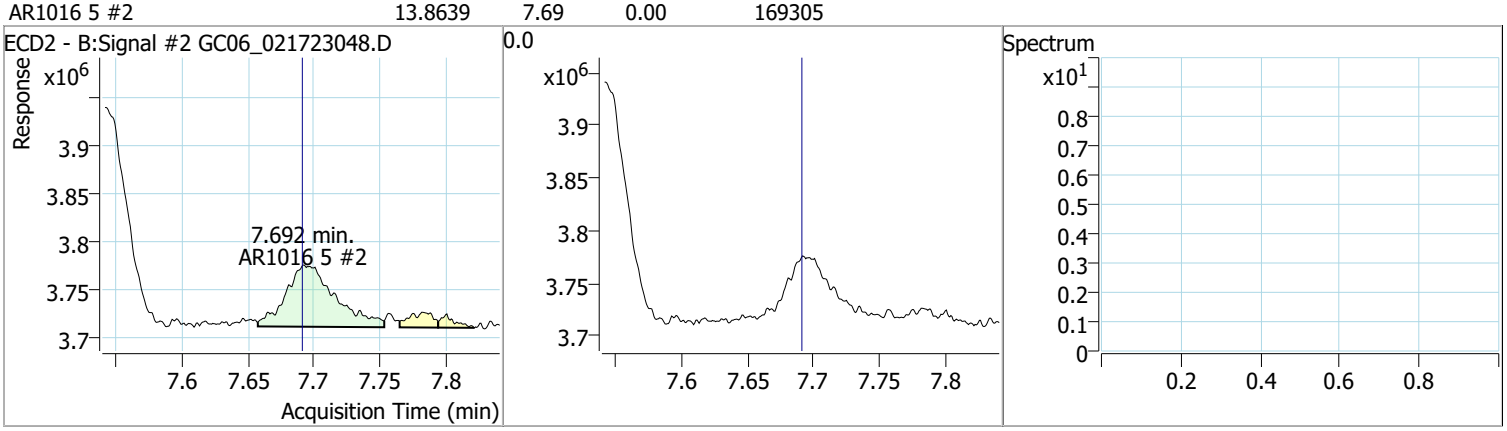
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	145.3717	6.89	0.08	3072384				



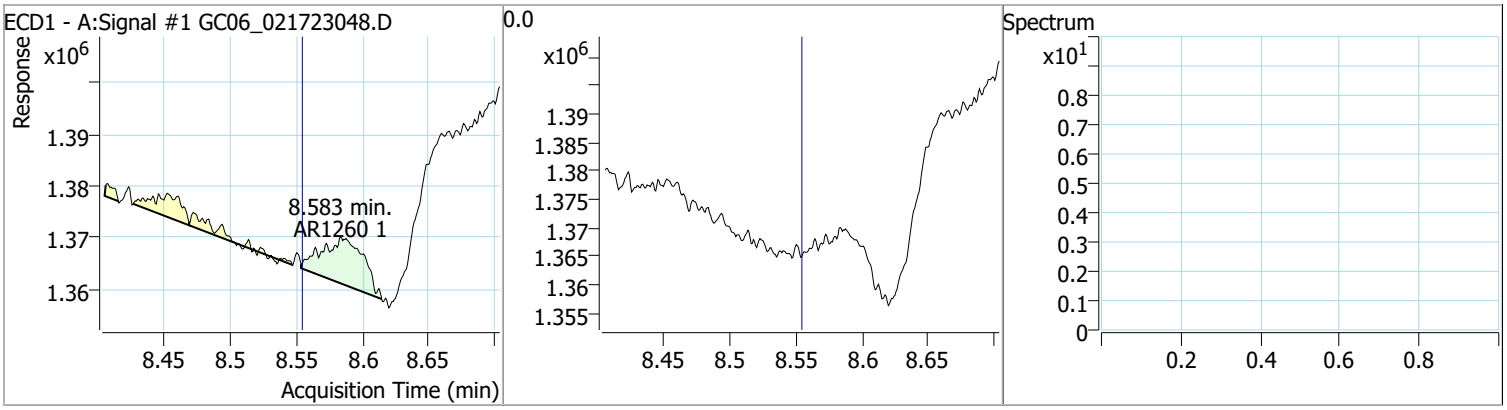
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	19.7060	6.89	-0.10	296979				



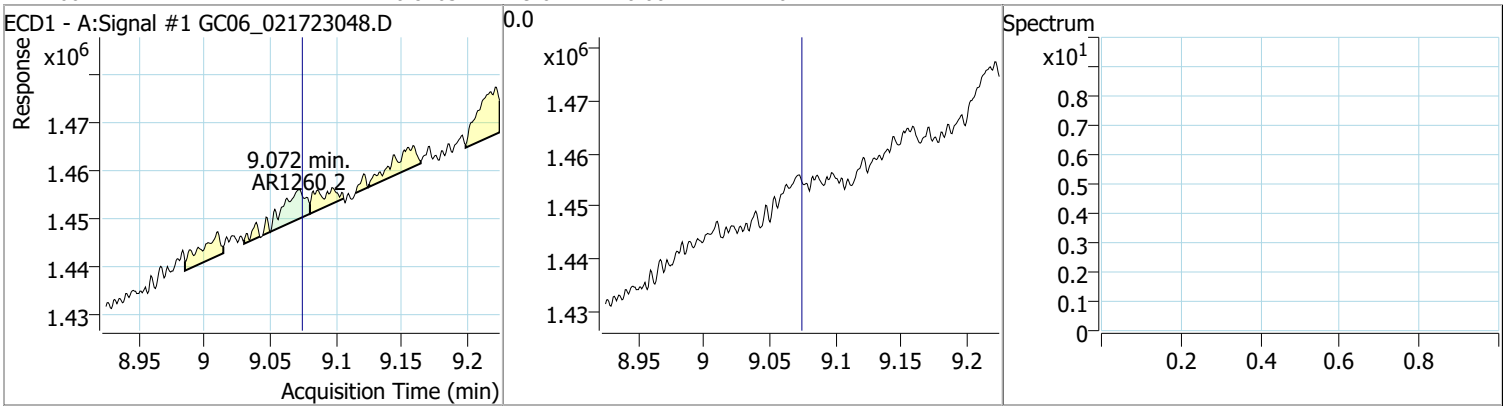
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	13.8639	7.69	0.00	169305				



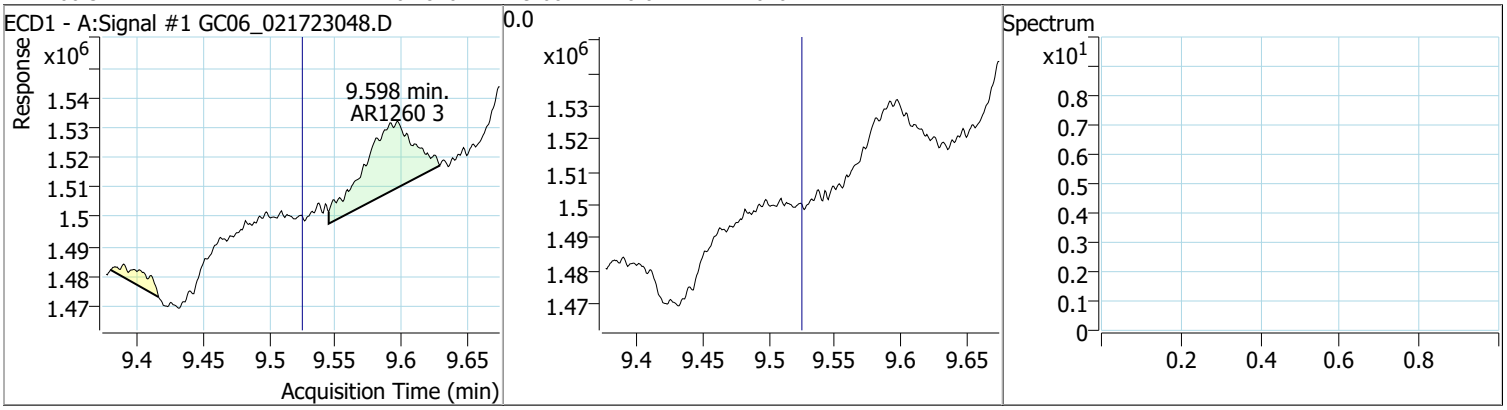
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	3.1462	8.58	0.03	19740				



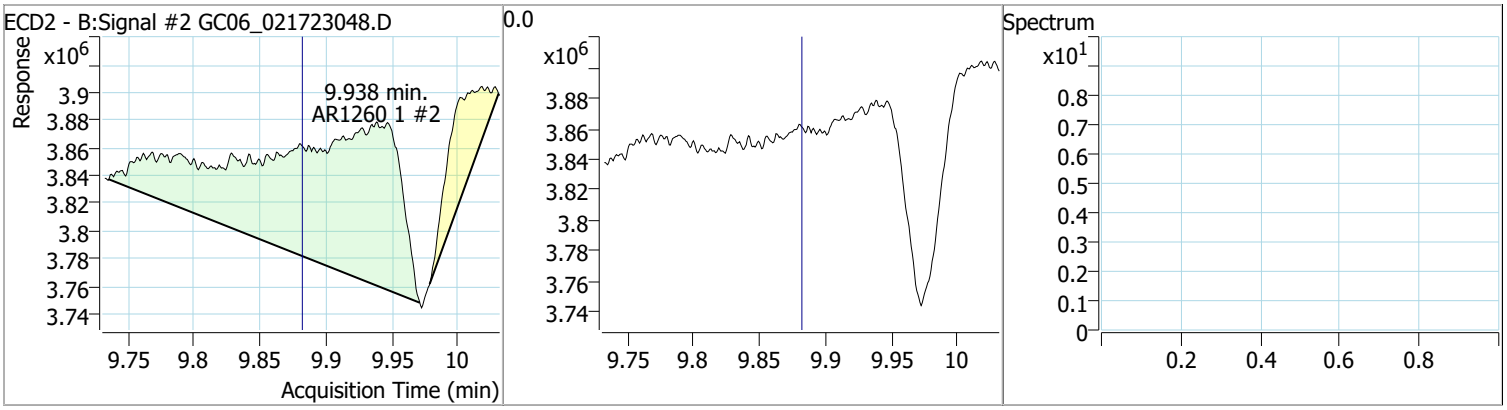
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.8463	9.07	0.00	7404				



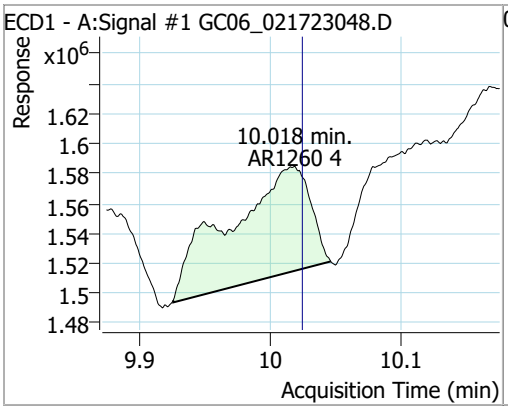
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	6.2816	9.60	0.07	62012				

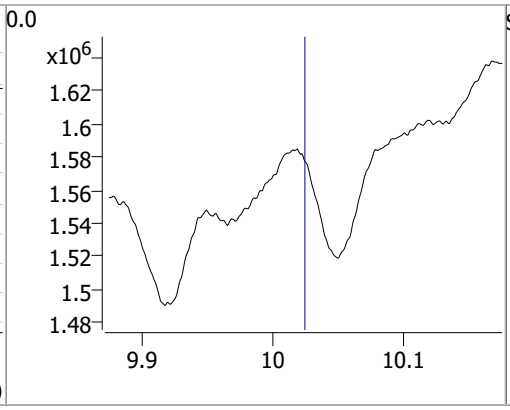


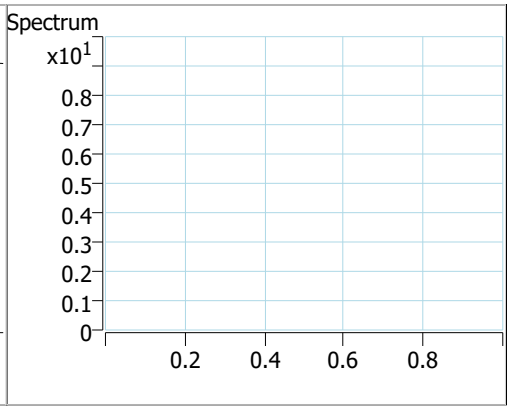
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	37.6337	9.94	0.06	840123				



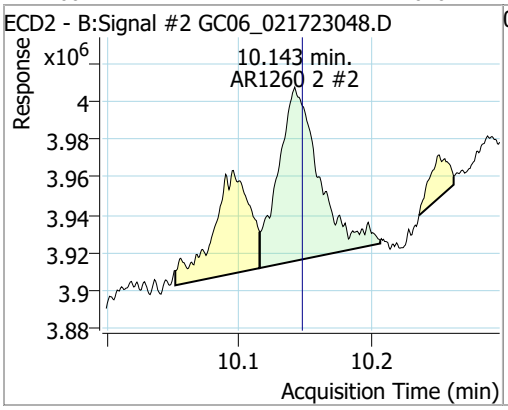
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	60.0770	10.02	-0.01	312803				

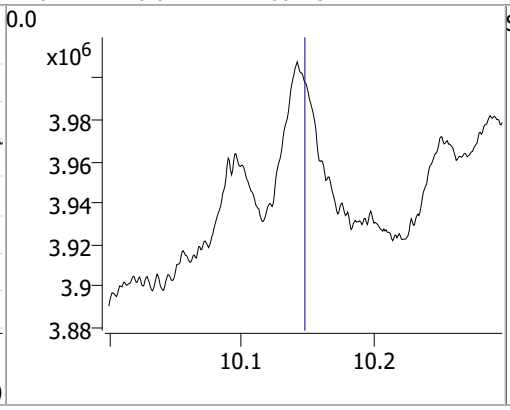


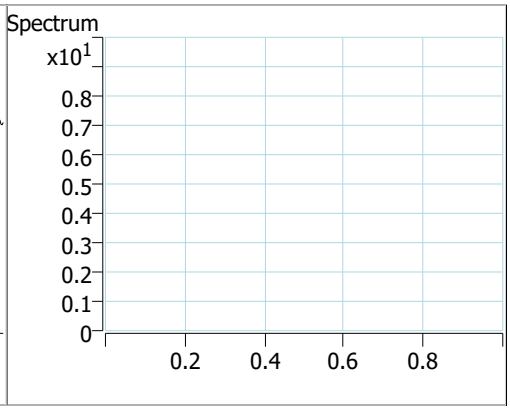




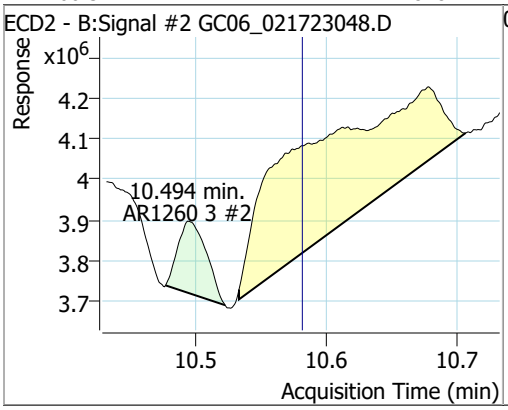
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	7.6201	10.14	-0.01	200745				

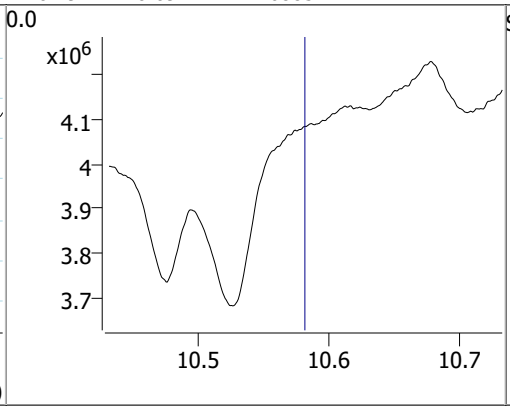


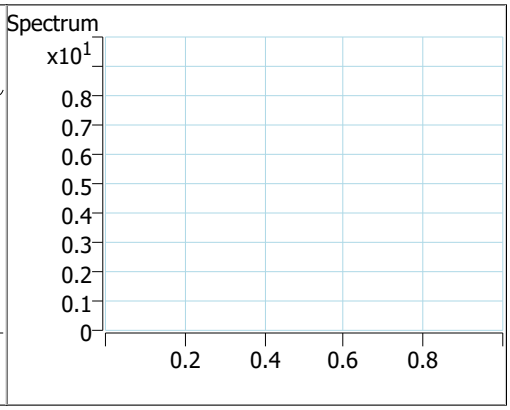




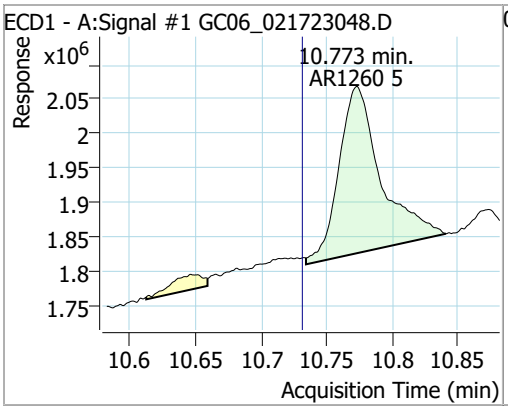
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	7.8282	10.49	-0.09	268857				

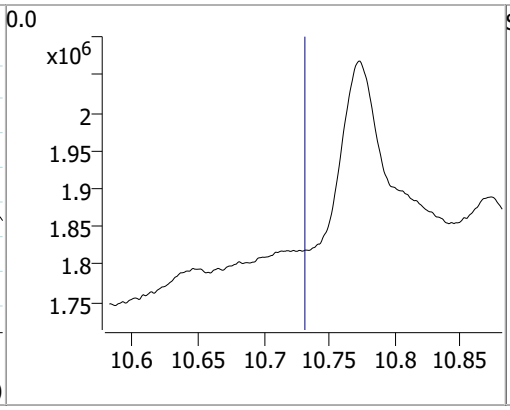


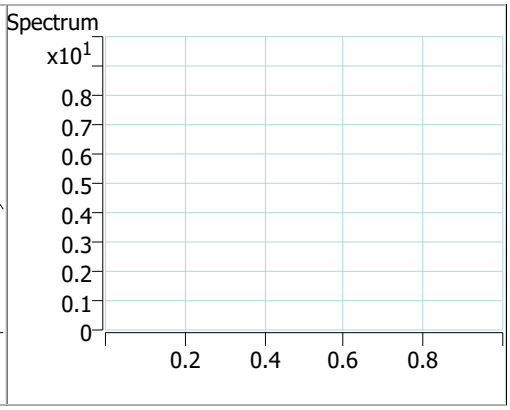




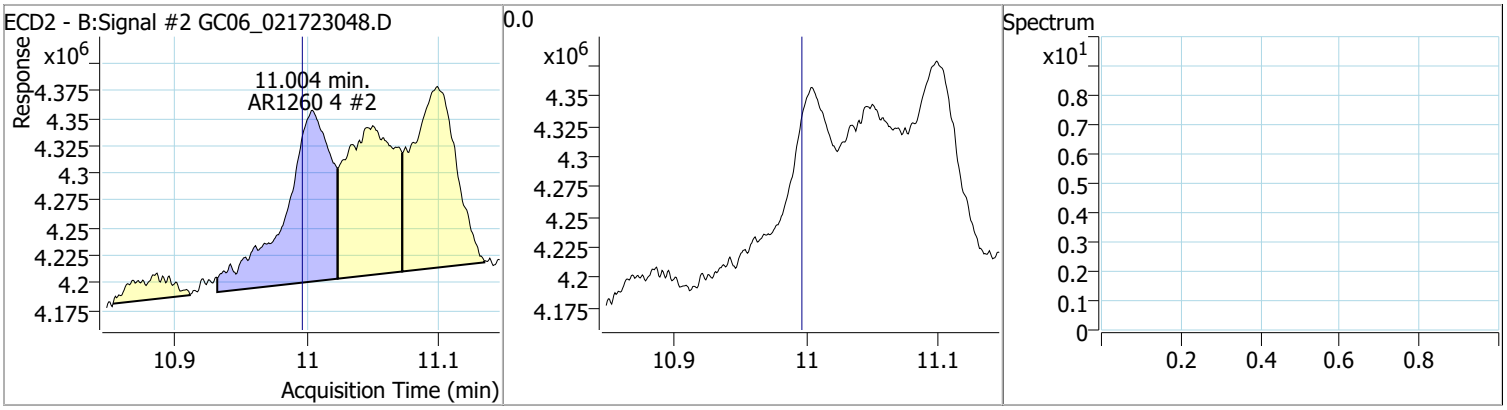
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	91.1703	10.77	0.04	540434				



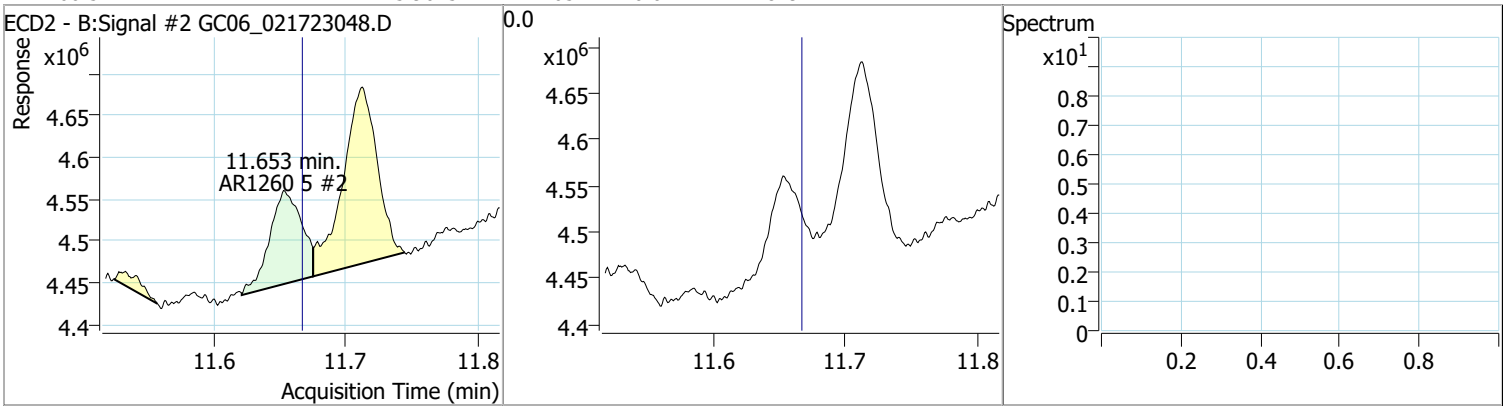




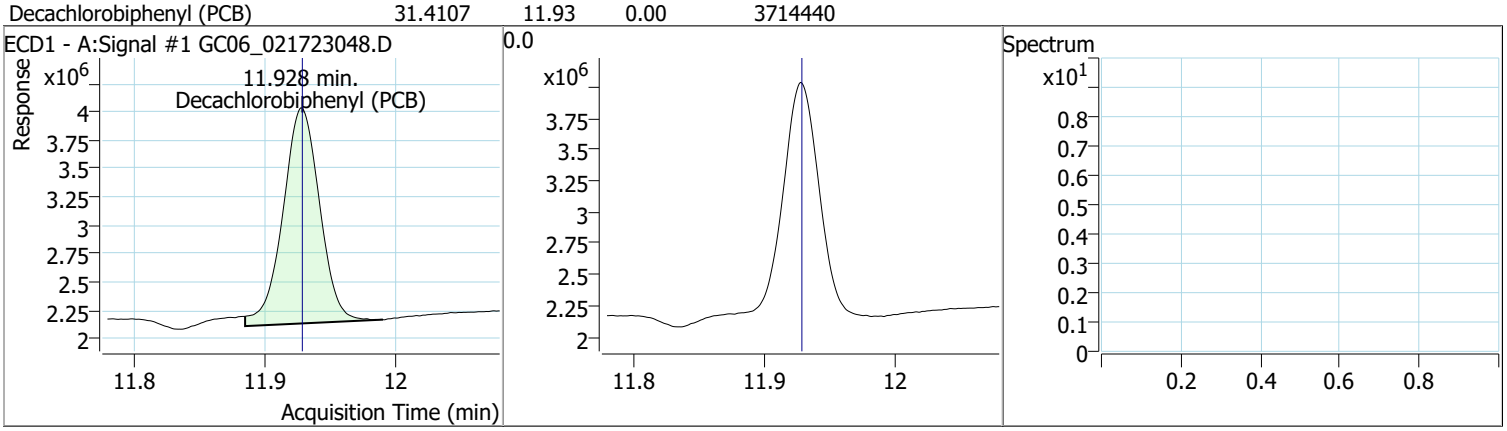
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	21.3465	11.00	0.01	384644				



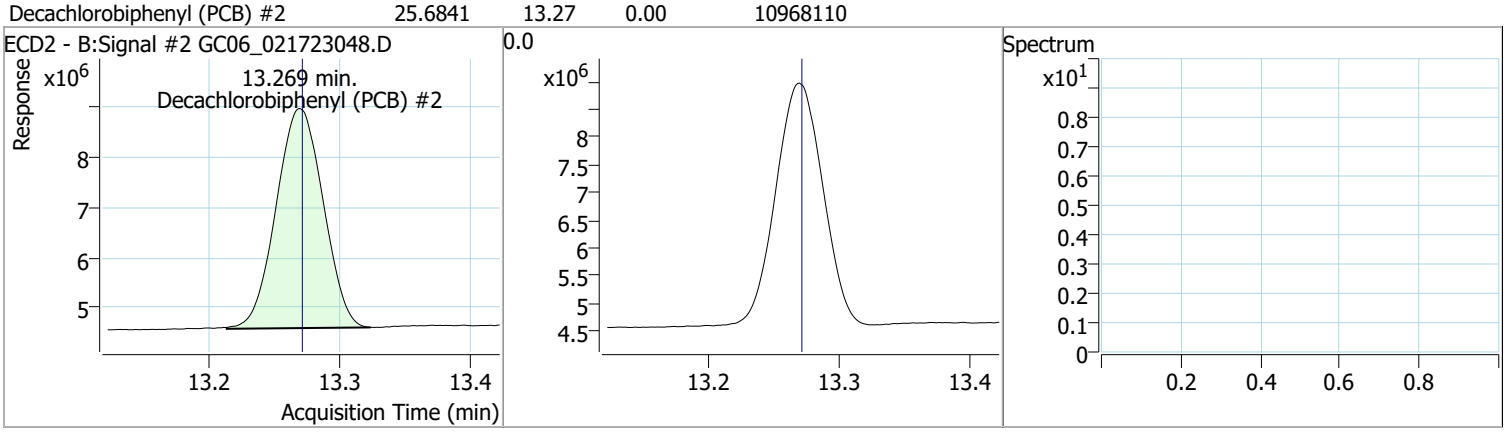
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	5.9675	11.65	-0.02	187927				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	31.4107	11.93	0.00	3714440				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	25.6841	13.27	0.00	10968110				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	479661-011	Client ID:	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-LA
Seqnum:	453069687049	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_021723049	Batch:	307899	Time:	17-FEB-2023 23:23
Cal:	453057263001	Caldate:	08-FEB-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	344.9	~~3.4~~ ~~FP~~	0.31	167%	0.50		x u
Aroclor-1016 Peak # 1	B	1518	15.18	0.28	193%			
Aroclor-1016 Peak # 2	B	35.02	0.35	0.07	136%			
Aroclor-1016 Peak # 3	B	158.5	1.58	0.31	134%			
Aroclor-1016 Peak # 4	B	12.20	0.12	0.16	26%			
Aroclor-1016 Peak # 5	B	1.239	0.01	0.74	193%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	36.72	ND	0.21	57%	0.50		u
Aroclor-1260 Peak # 1	B	26.68	0.27	0.01	193%			
Aroclor-1260 Peak # 2	B	9.129	0.09	ND				
Aroclor-1260 Peak # 3	B	58.00	0.58	0.03	178%			
Aroclor-1260 Peak # 4	B	85.41	0.85	0.29	98%			
Aroclor-1260 Peak # 5	B	4.399	0.04	0.70	176%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	21.79	0.5000	0.2179	44	19-121	c- u
Decachlorobiphenyl (PCB)	B	19.97	0.5000	0.1997	40	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	6659056	**???**	**-100.00 ***
1-bromo-2-nitrobenzene (1268)	A	1543460	**???**	**-100.00 ***

ISTD (CCV gc06_021723029)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	8293841	7174513	-13.50
1-bromo-2-nitrobenzene (PCB)	A	1858745	1583640	-14.80

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.43	**???**	
1-bromo-2-nitrobenzene (1268)	A	4.19	**???**	

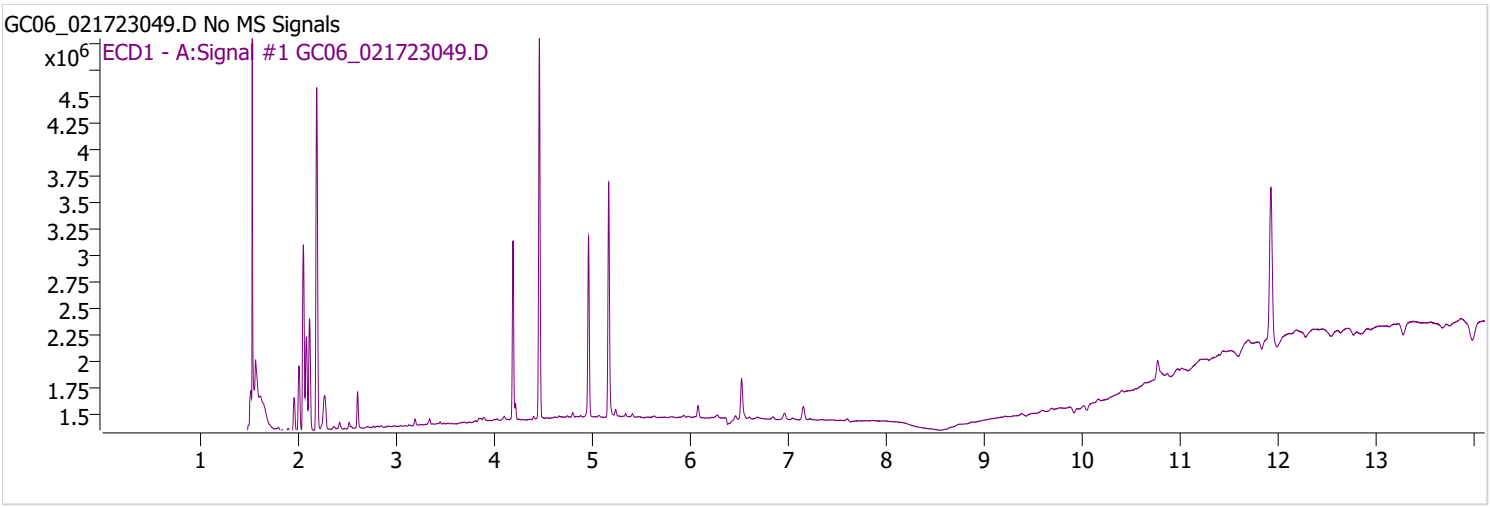
ISTD (CCV gc06_021723029)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.20	4.19	-0.01

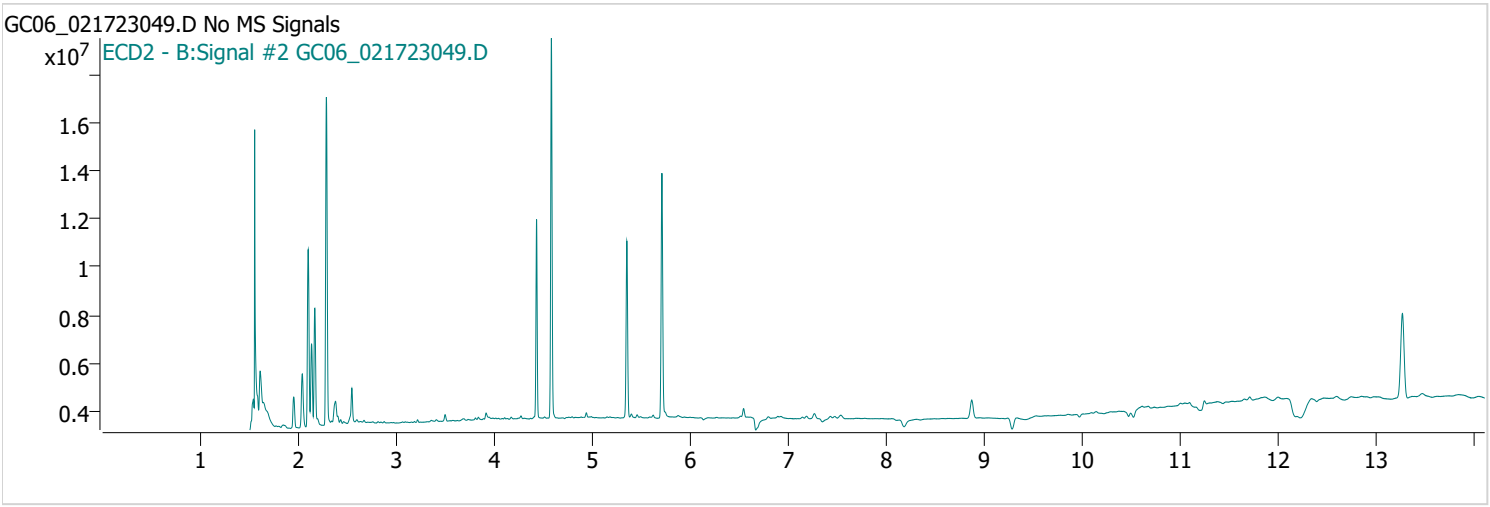
-=low bias c=CCV u=use x=false positive

Analyst: MES 02/20/23 **Reviewer:** LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723049.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 11:23:14 PM
Sample Name	479661-011, 307899, 1	Instrument	SVOA-GC06
Vial	28	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
Ref Library			



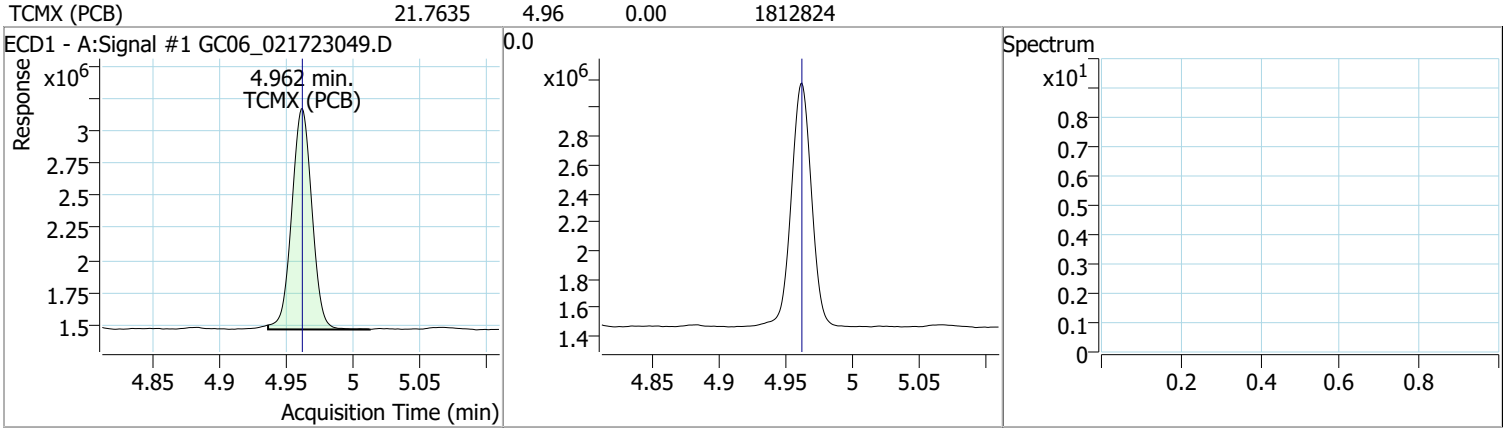


Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.190	0.0	1583640.450	20.0000	ng/ml	-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.431	0.0	7174512.773	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.962	0.0	1812824.024	21.7635	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 108.82%		
S TCMX (PCB) #2	5.353	0.0	7940134.611	21.7943	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 108.97%		
S Decachlorobiphenyl (PCB)	11.928	0.0	3070682.731	25.4145	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 127.07%		
S Decachlorobiphenyl (PCB) #2	13.272	0.0	8650254.864	19.9715	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 99.86%		
Target Compounds						QValue

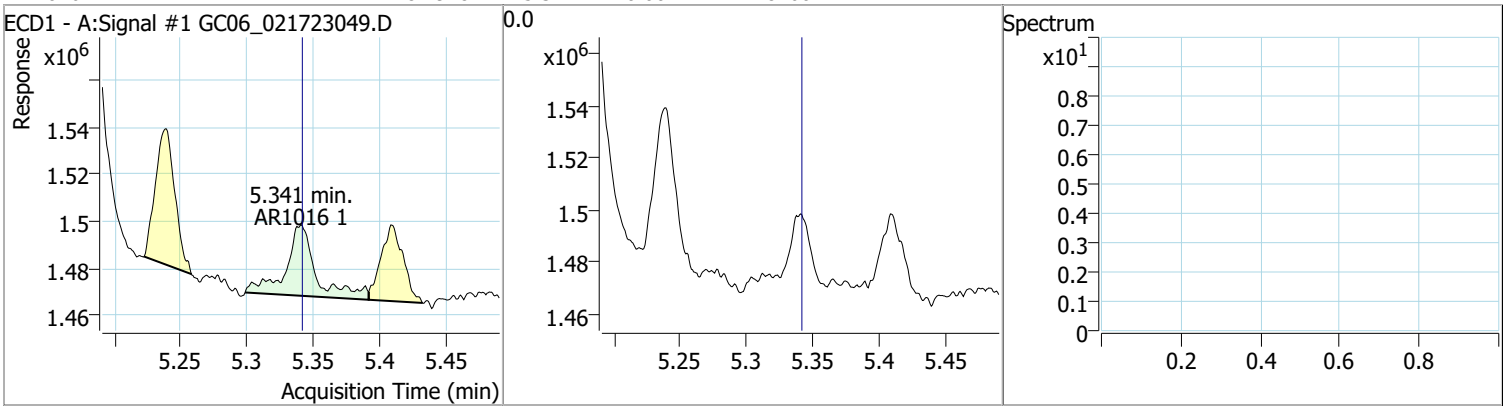
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.341	0.0	48260.070	28.2948	ng/ml	100
T AR1016 2	5.633	0.0	31043.898	6.6792	ng/ml	100
T AR1016 1 #2	5.711	0.0	11377353.180	1517.8333	ng/ml	100
T AR1016 3	6.079	0.0	154116.675	31.1340	ng/ml	100
T AR1016 4	6.220	0.0	60607.509	15.8828	ng/ml	100
T AR1016 2 #2	6.269	0.0	613529.504	35.0203	ng/ml	100
T AR1016 5	6.459	0.0	137054.230	73.6690	ng/ml	100
T AR1016 3 #2	6.894	0.0	3396797.004	158.4616	ng/ml	100
T AR1016 4 #2	6.922	0.0	186468.268	12.1991	ng/ml	100
T AR1016 5 #2	7.688	0.0	15342.969	1.2387	ng/ml	100
T AR1260 1	8.612	0.0	3232.873	0.5043	ng/ml	100
T AR1260 2	0.000		0	N.D.		
T AR1260 3	9.596	0.0	34705.999	3.4409	ng/ml	100
T AR1260 1 #2	9.863	0.0	604083.979	26.6797	ng/ml	100
T AR1260 4	10.017	0.0	154880.098	29.1135	ng/ml	100
T AR1260 2 #2	10.147	0.0	243927.925	9.1291	ng/ml	100
T AR1260 3 #2	10.613	0.0	2020516.034	58.0031	ng/ml	100
T AR1260 5	10.773	0.0	421860.298	69.6532	ng/ml	100
T AR1260 4 #2	11.098	0.0	1560962.025	85.4102	ng/ml	100
T AR1260 5 #2	11.659	0.0	140524.555	4.3995	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

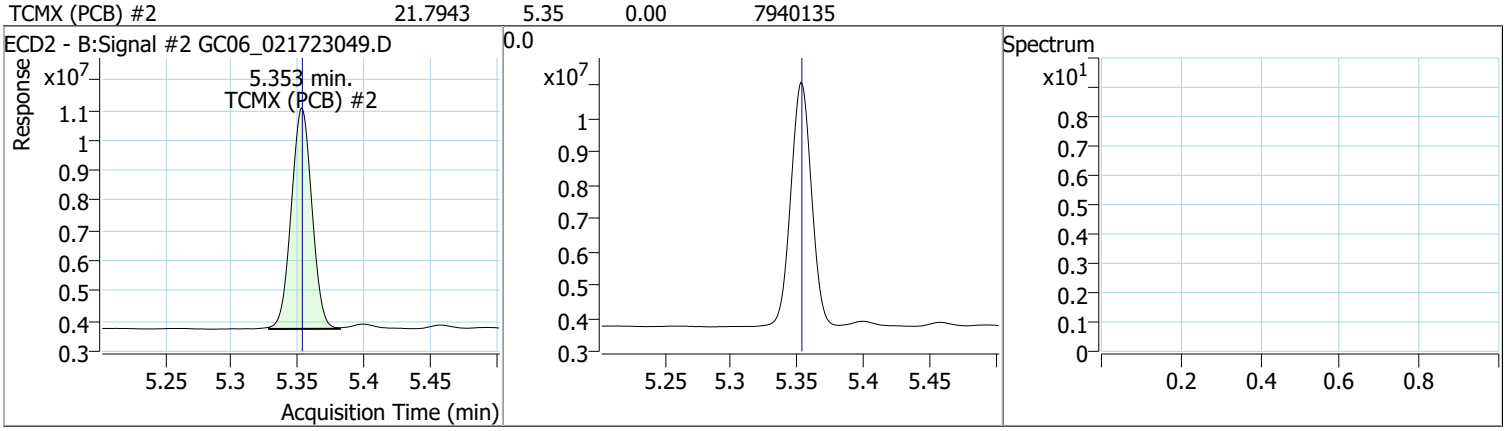
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	21.7635	4.96	0.00	1812824				



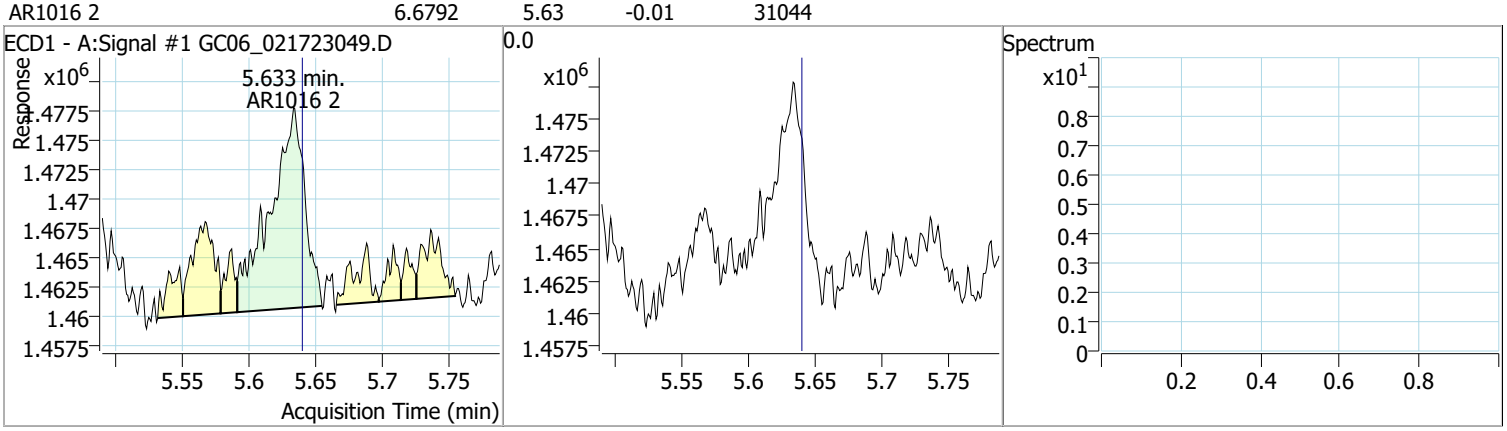
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	28.2948	5.34	0.00	48260				



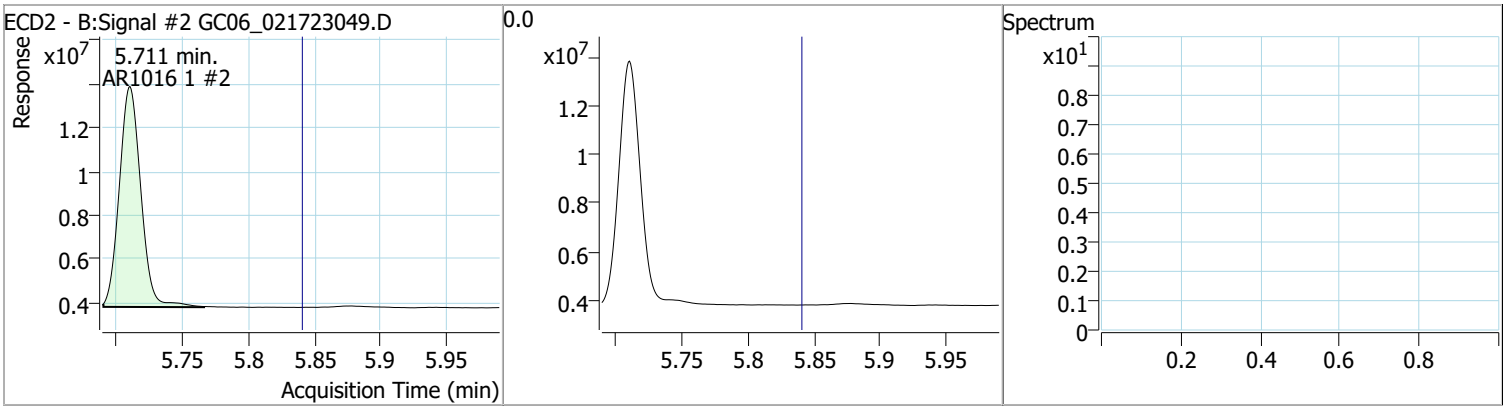
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	21.7943	5.35	0.00	7940135				



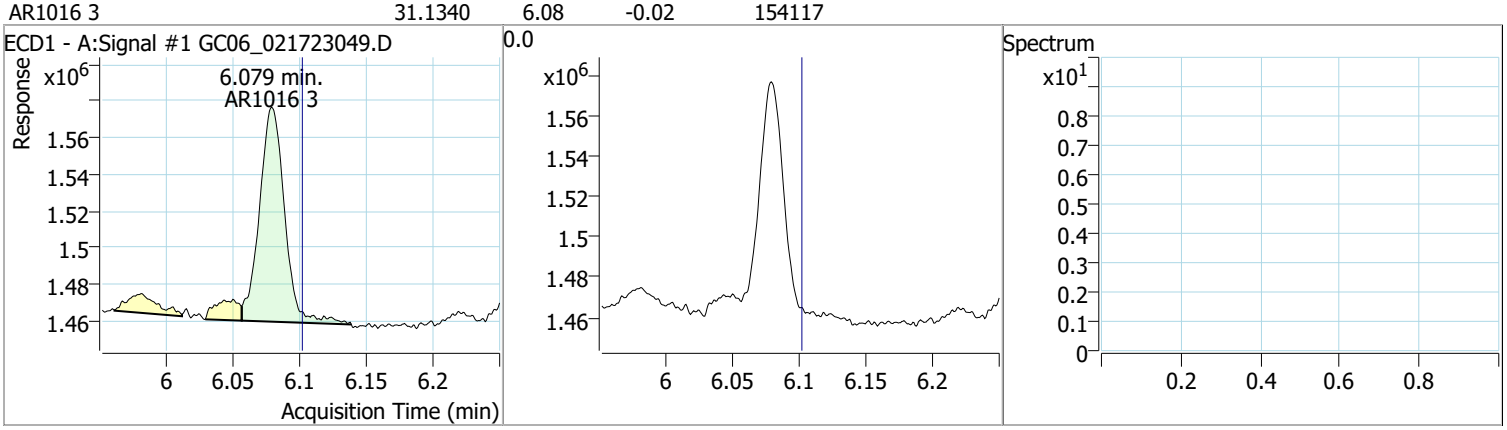
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	6.6792	5.63	-0.01	31044				



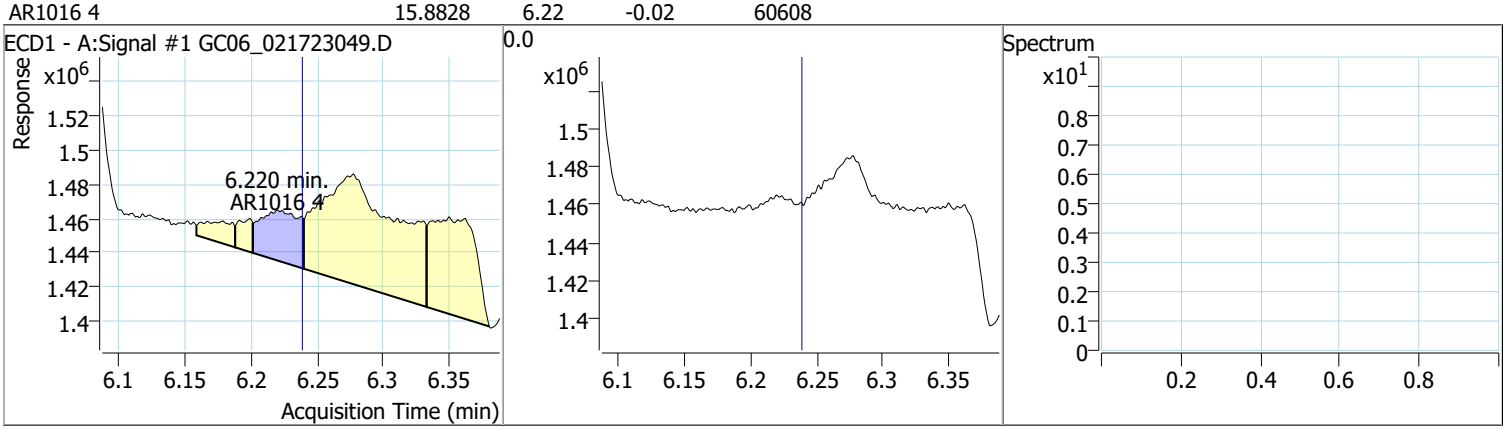
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1517.8333	5.71	-0.13	11377353				



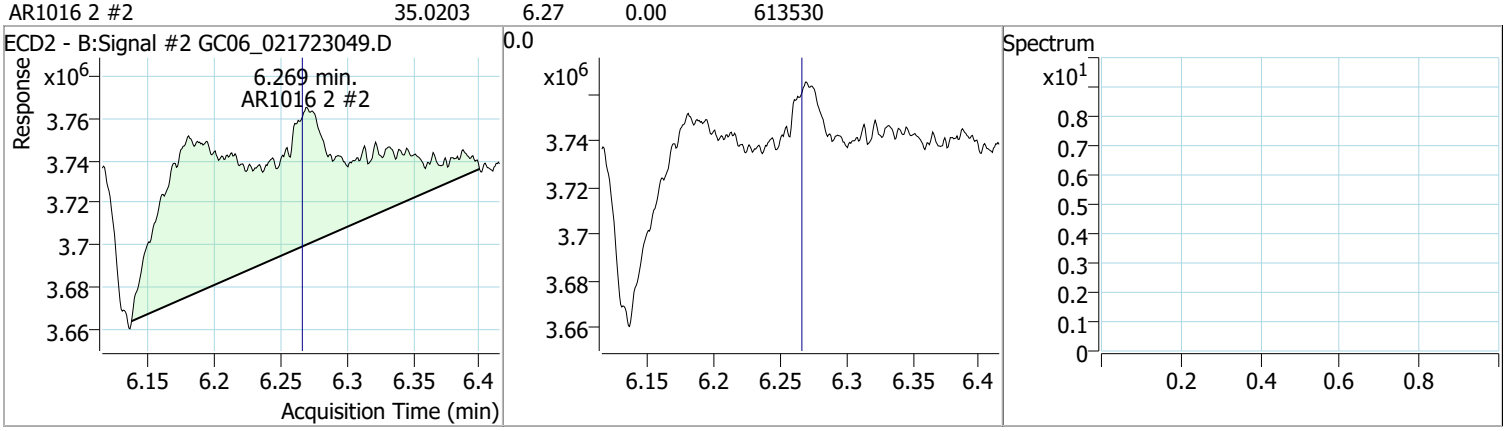
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	31.1340	6.08	-0.02	154117				



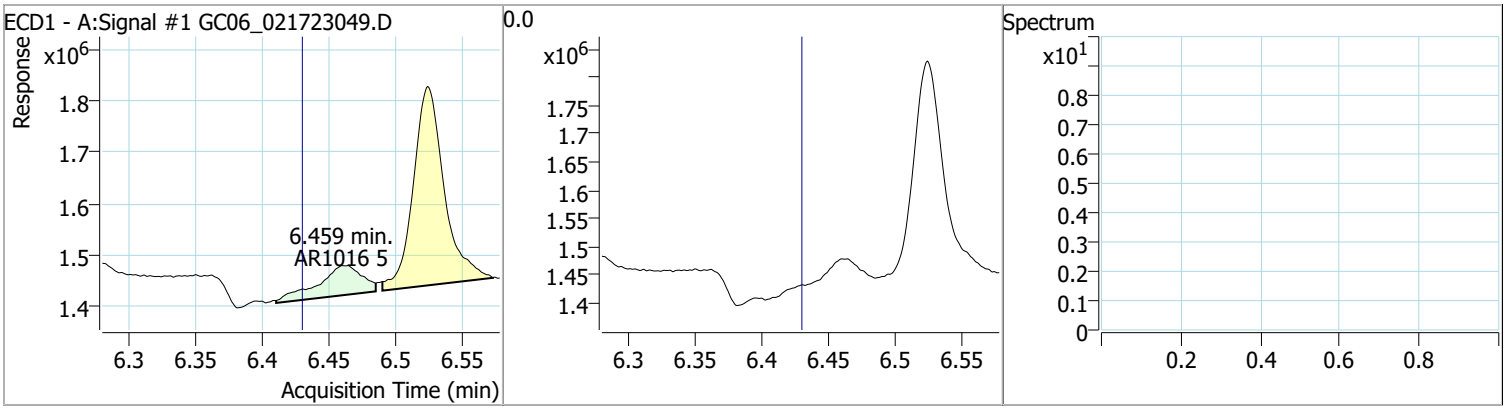
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	15.8828	6.22	-0.02	60608				



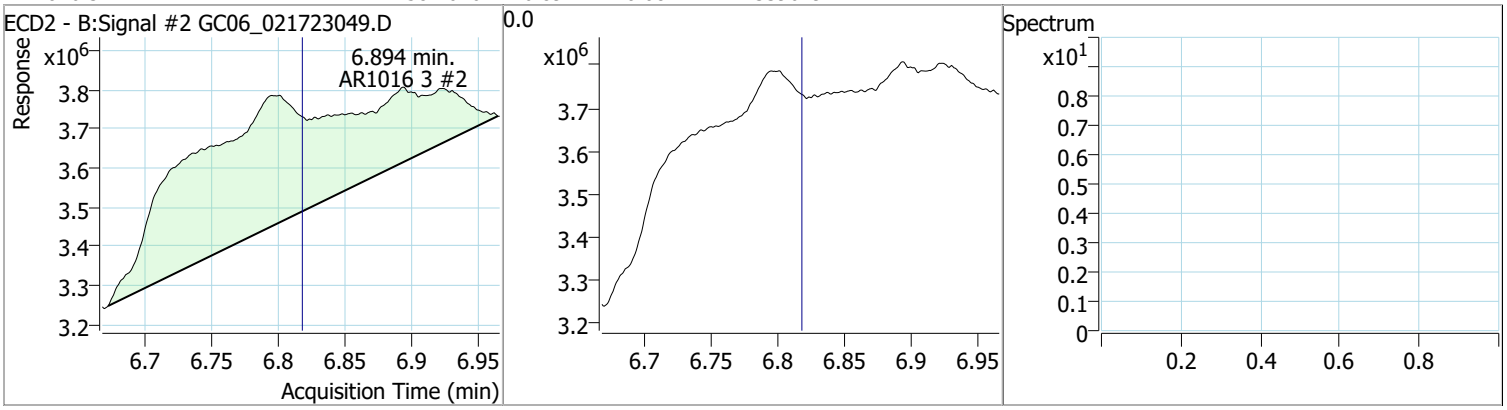
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	35.0203	6.27	0.00	613530				



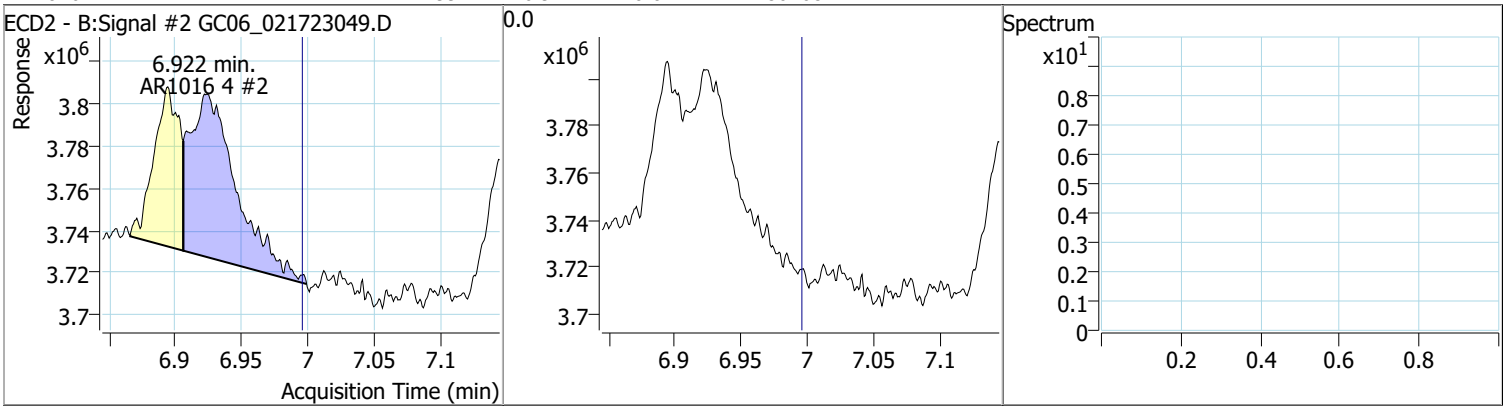
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	73.6690	6.46	0.03	137054				



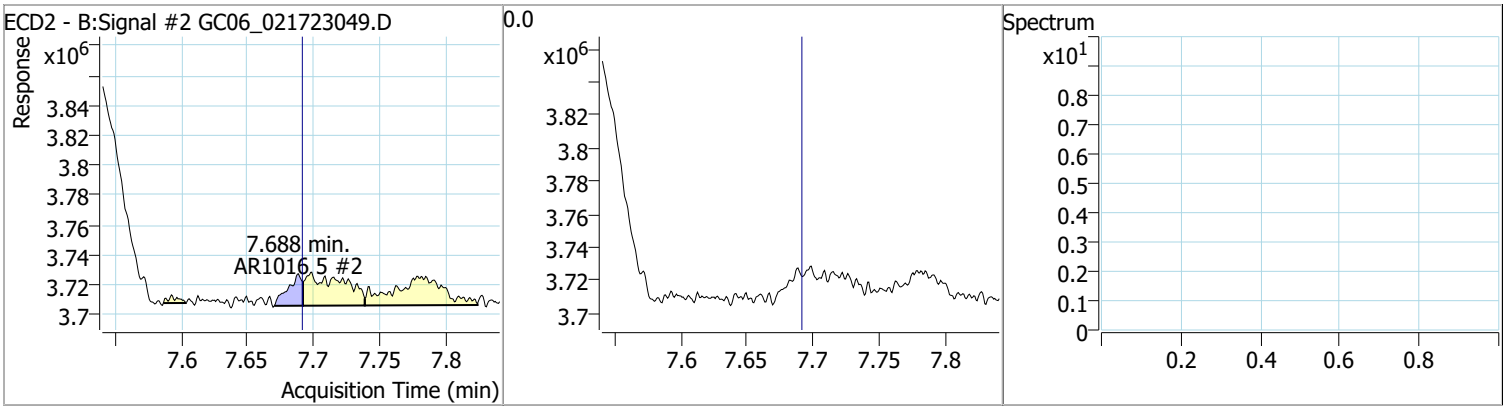
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	158.4616	6.89	0.08	3396797				



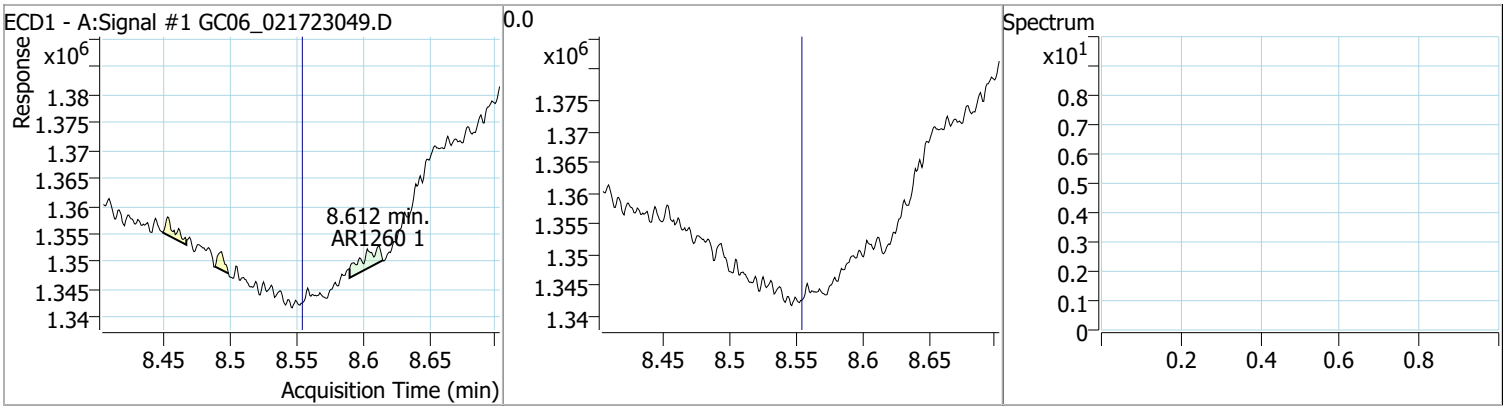
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	12.1991	6.92	-0.07	186468				



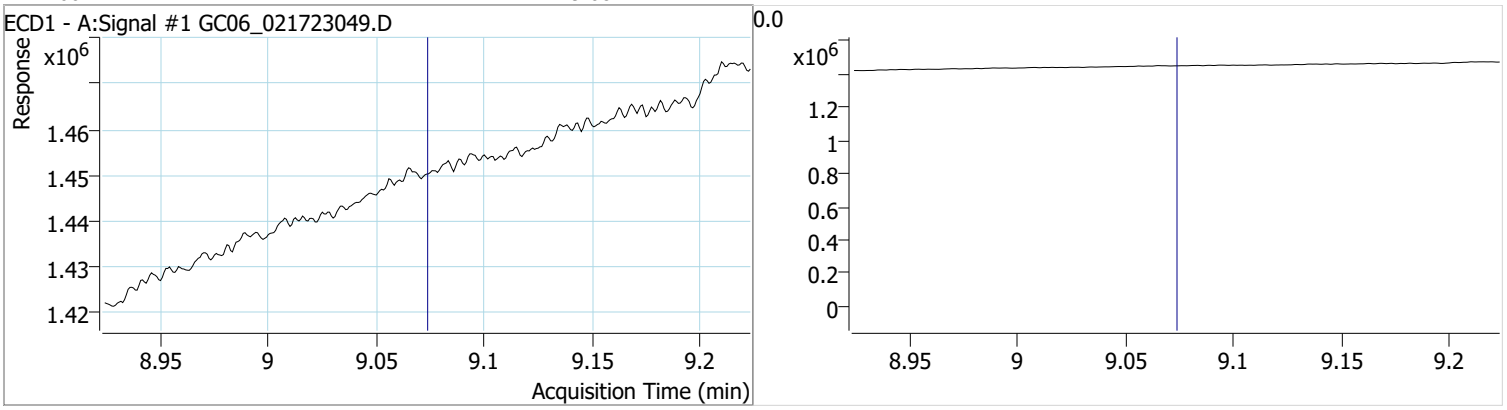
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	1.2387	7.69	0.00	15343				



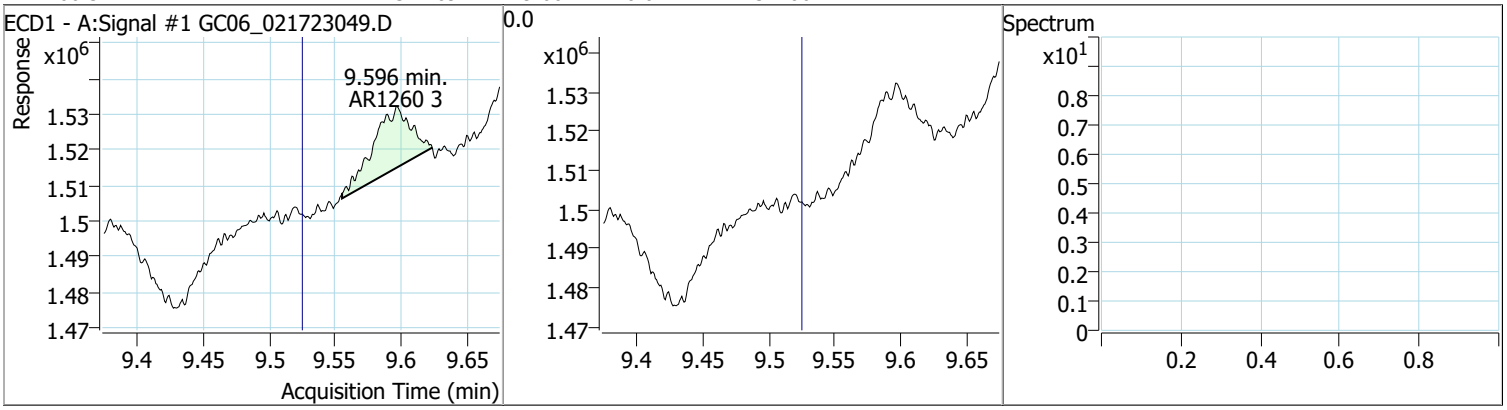
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	0.5043	8.61	0.06	3233				



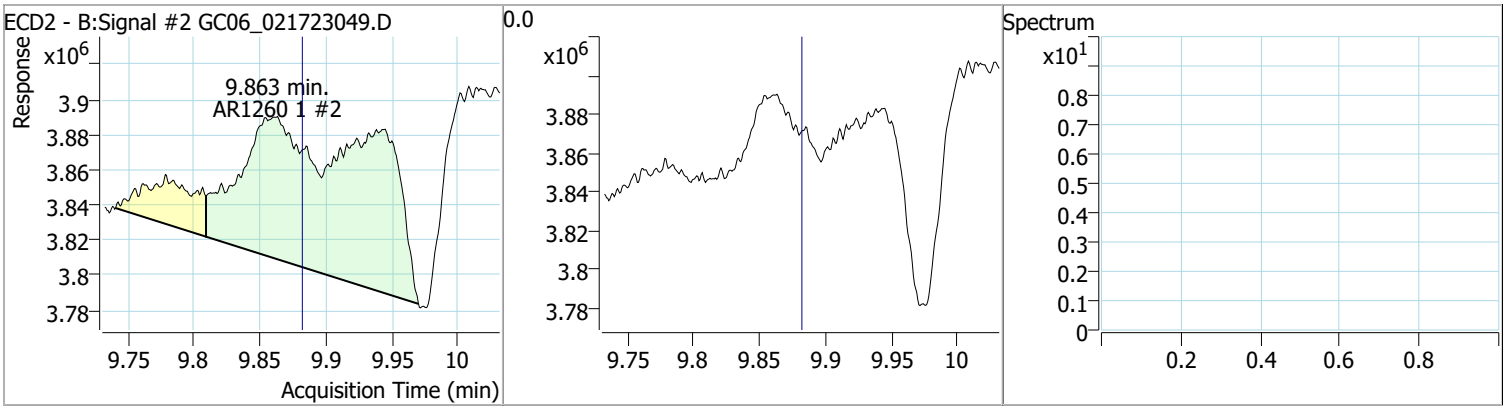
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 2	N.D.	9.08		



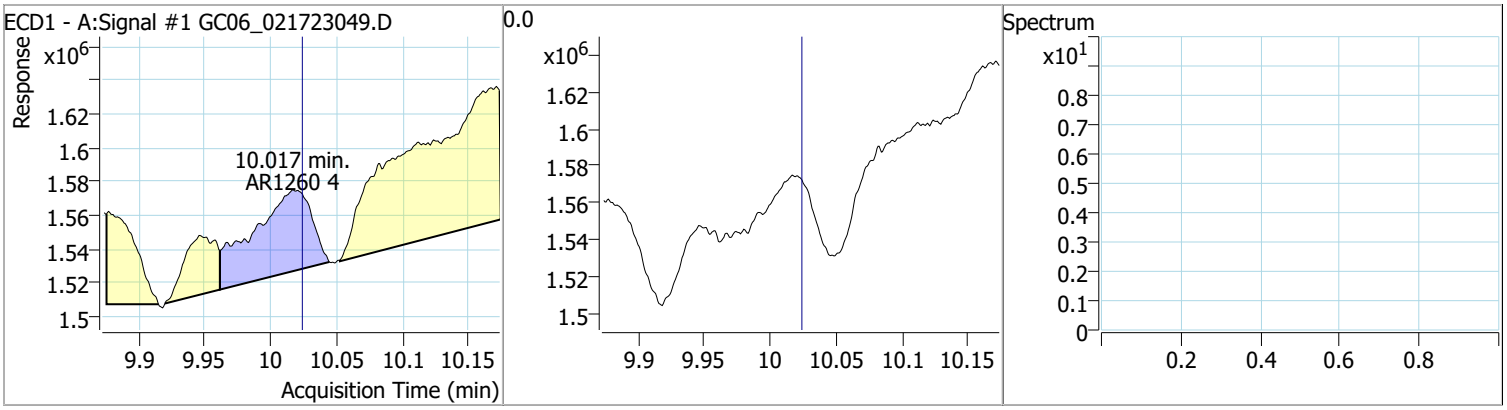
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	3.4409	9.60	0.07	34706				



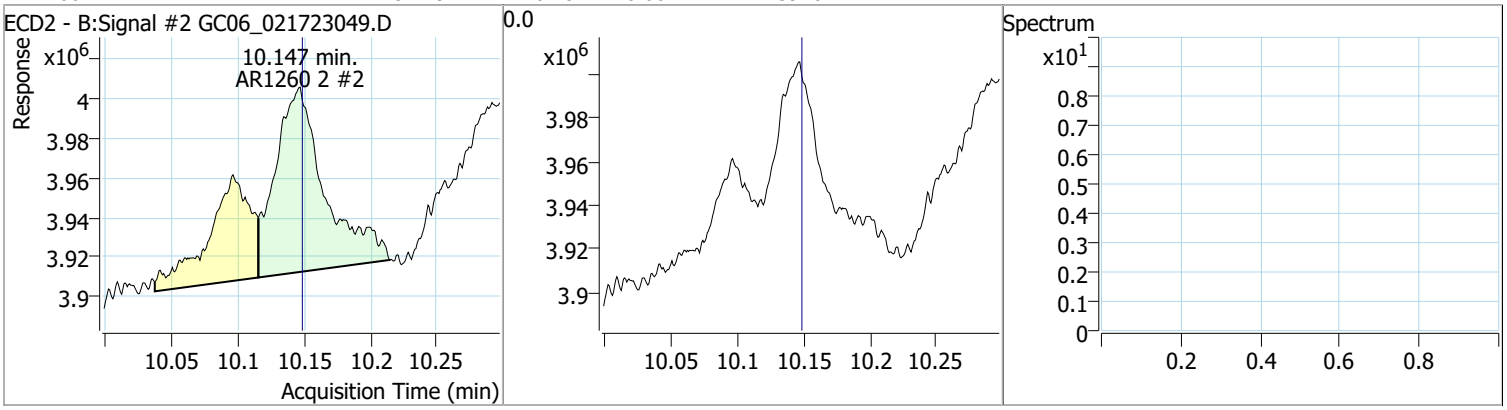
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	26.6797	9.86	-0.02	604084				



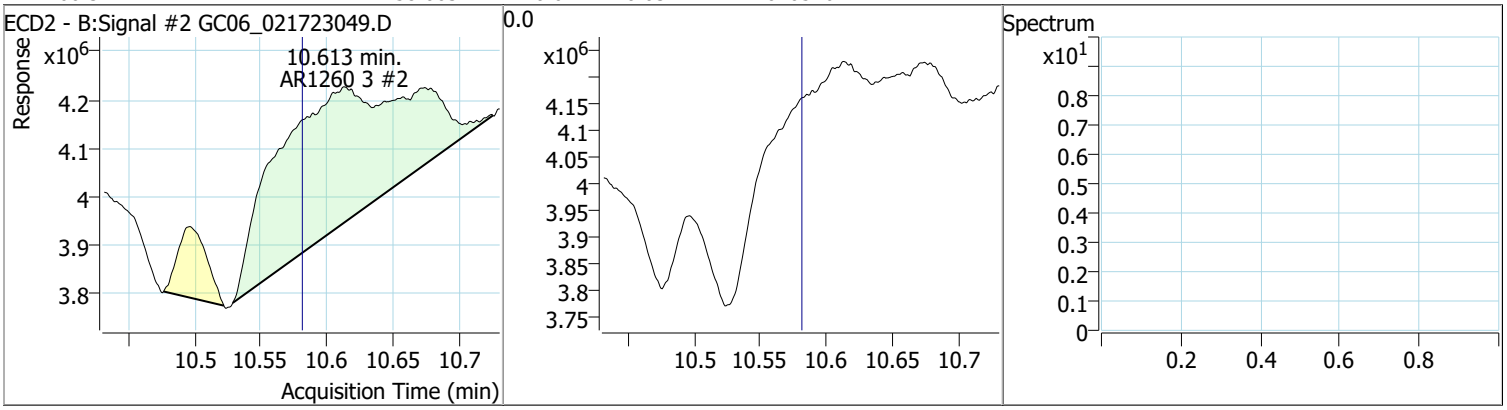
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	29.1135	10.02	-0.01	154880				



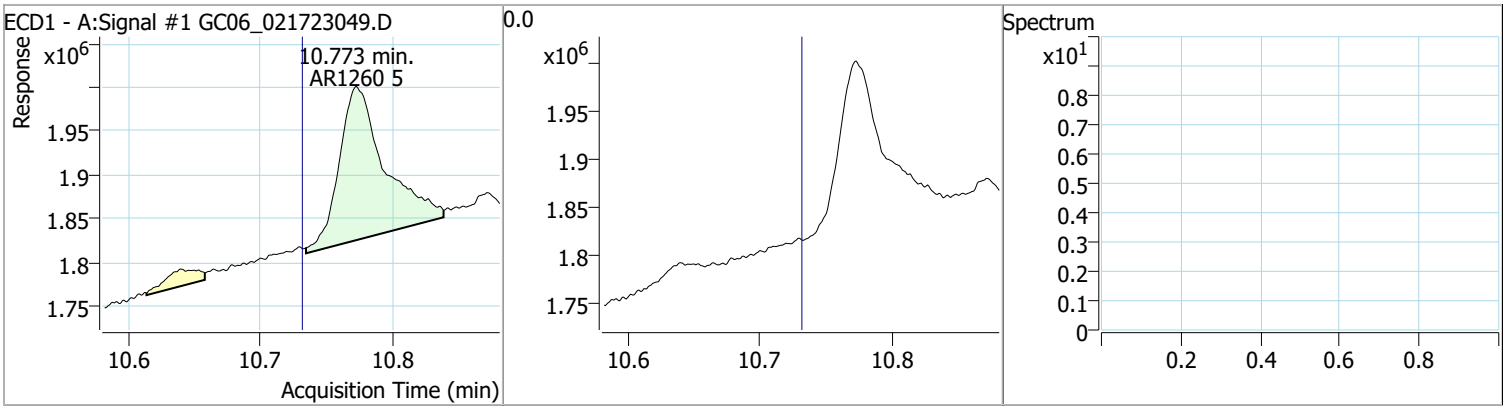
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	9.1291	10.15	0.00	243928				



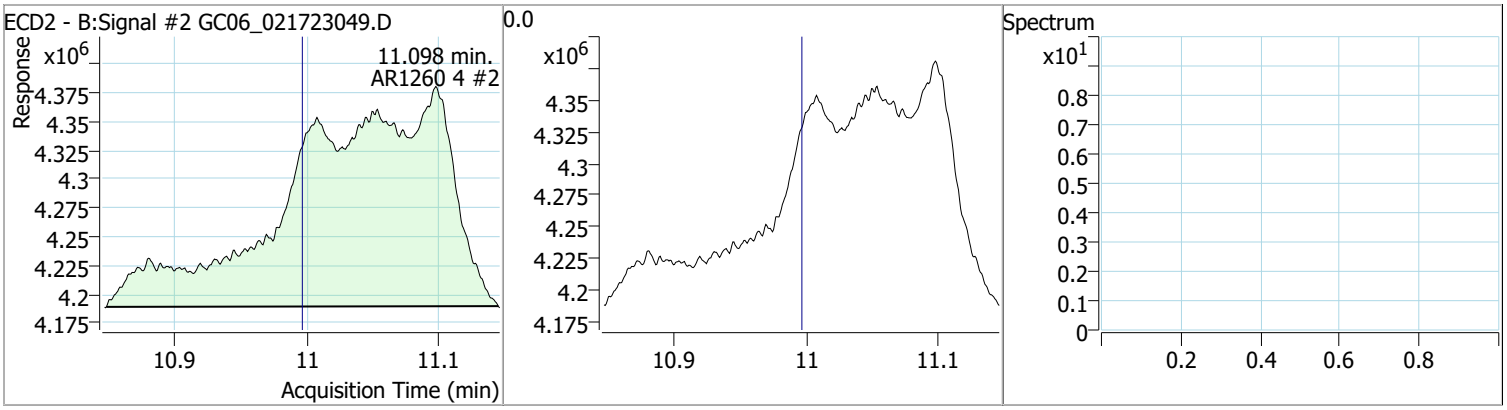
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	58.0031	10.61	0.03	2020516				



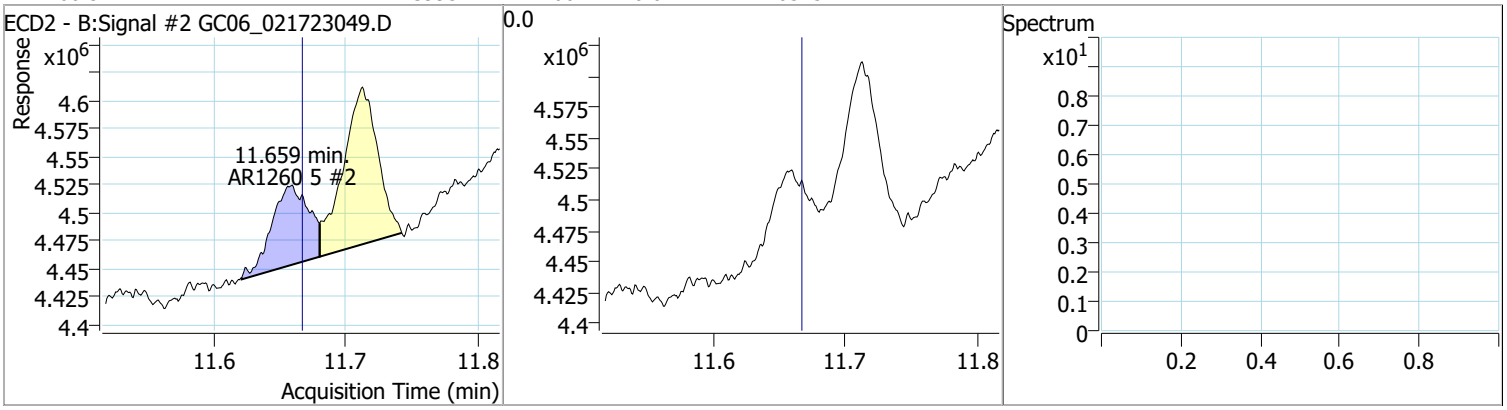
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	69.6532	10.77	0.04	421860				



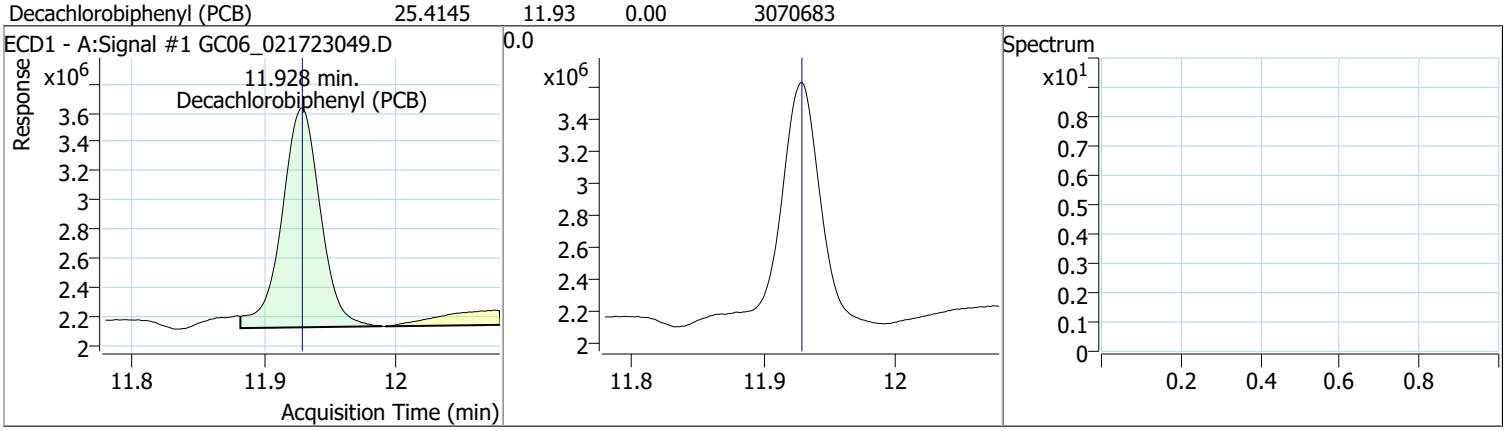
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	85.4102	11.10	0.10	1560962				



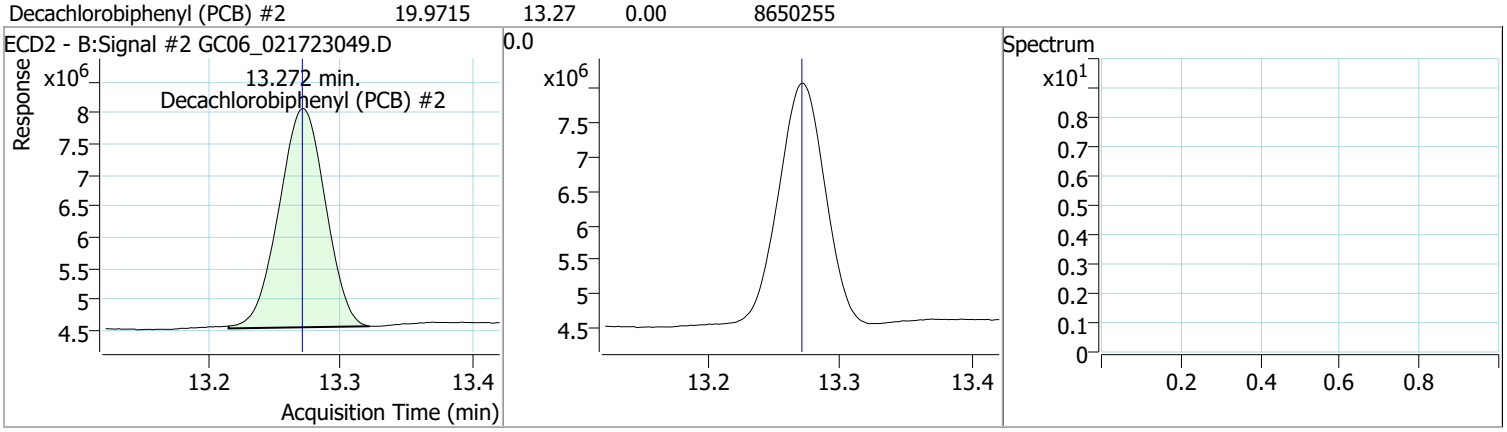
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	4.3995	11.66	-0.01	140525				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	25.4145	11.93	0.00	3070683				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	19.9715	13.27	0.00	8650255				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	479661-012	Client ID:	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-DUP-LA
Seqnum:	453069687050	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_021723050	Batch:	307899	Time:	17-FEB-2023 23:41
Cal:	453057263001	Caldate:	08-FEB-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	43.08	ND	0.46	6%	0.50		u
Aroclor-1016 Peak # 1	B	70.69	0.71	0.27	91%			
Aroclor-1016 Peak # 2	B	17.21	0.17	0.09	60%			
Aroclor-1016 Peak # 3	B	108.9	1.09	0.82	28%			
Aroclor-1016 Peak # 4	B	13.75	0.14	0.21	42%			
Aroclor-1016 Peak # 5	B	4.884	0.05	0.90	179%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	10.37	ND	0.46	126%	0.50		u
Aroclor-1260 Peak # 1	B	3.335	0.03	0.02	42%			
Aroclor-1260 Peak # 2	B	9.386	0.09	0.00	188%			
Aroclor-1260 Peak # 3	B	0	ND	0.12				
Aroclor-1260 Peak # 4	B	33.03	0.33	0.71	73%			
Aroclor-1260 Peak # 5	B	6.079	0.06	1.43	184%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	32.00	0.5000	0.3200	64	19-121	c- u
Decachlorobiphenyl (PCB)	B	28.18	0.5000	0.2818	56	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	6659056	**???**	**-100.00 ***
1-bromo-2-nitrobenzene (1268)	A	1543460	**???**	**-100.00 ***

ISTD (CCV gc06_021723029)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	8293841	6650716	-19.81
1-bromo-2-nitrobenzene (PCB)	A	1858745	1470522	-20.89

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.43	**???**	
1-bromo-2-nitrobenzene (1268)	A	4.19	**???**	

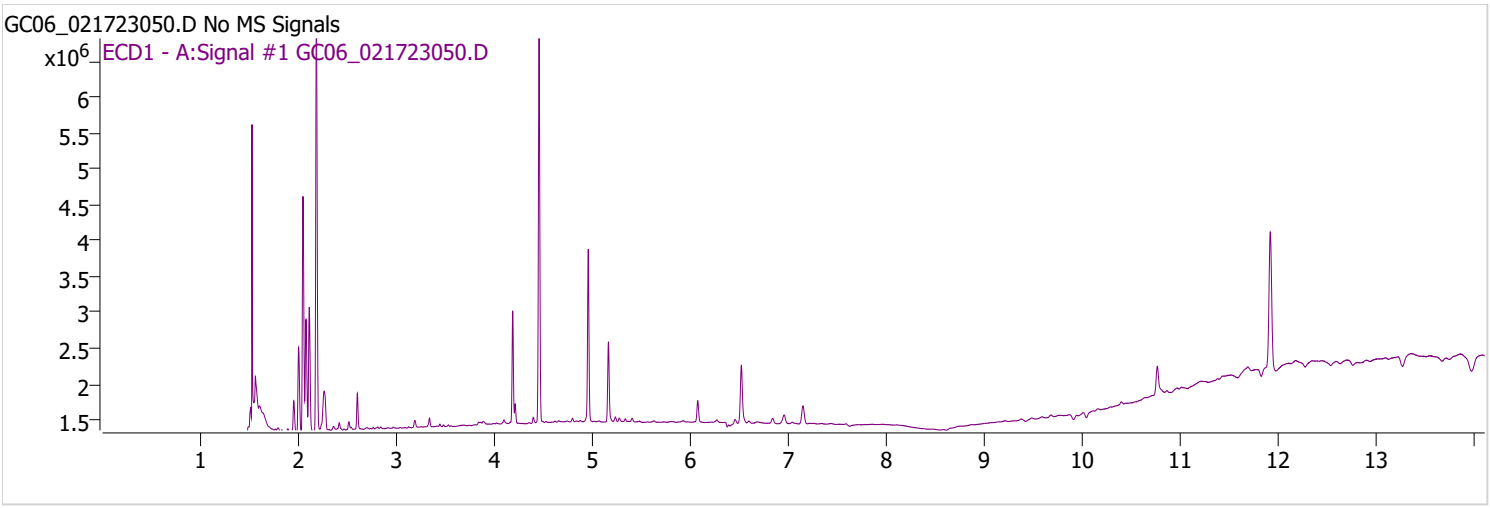
ISTD (CCV gc06_021723029)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.20	4.19	-0.01

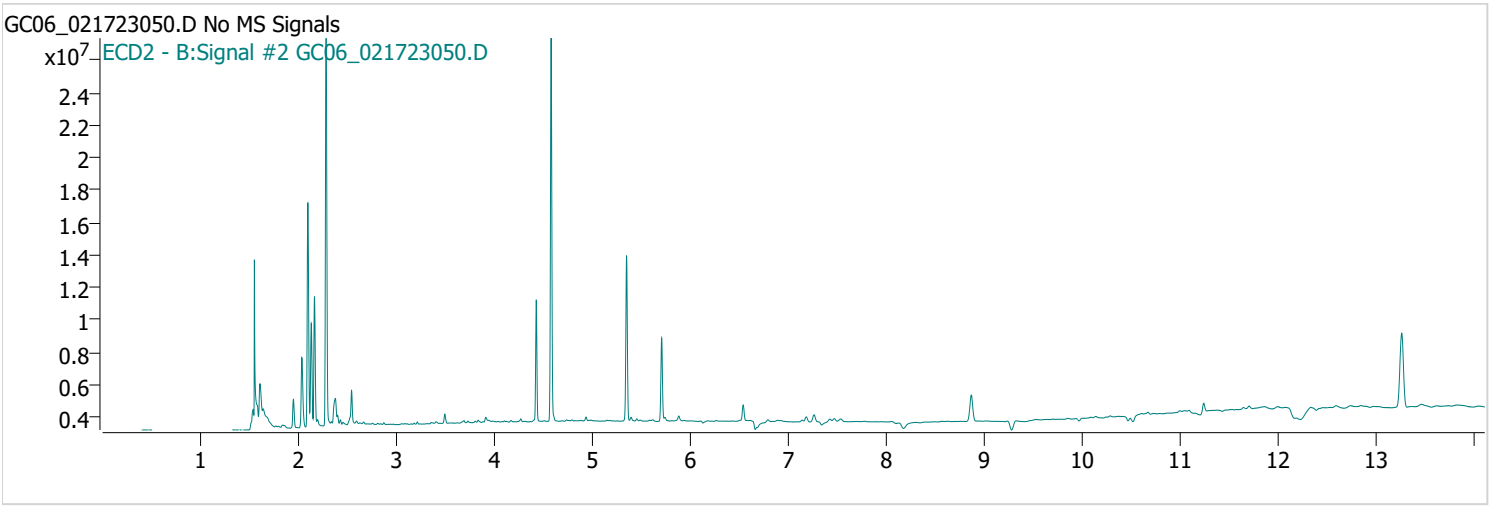
-=low bias c=CCV u=use

Analyst: MES 02/20/23 **Reviewer:** LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723050.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 11:41:39 PM
Sample Name	479661-012, 307899, 1	Instrument	SVOA-GC06
Vial	29	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
Ref Library			



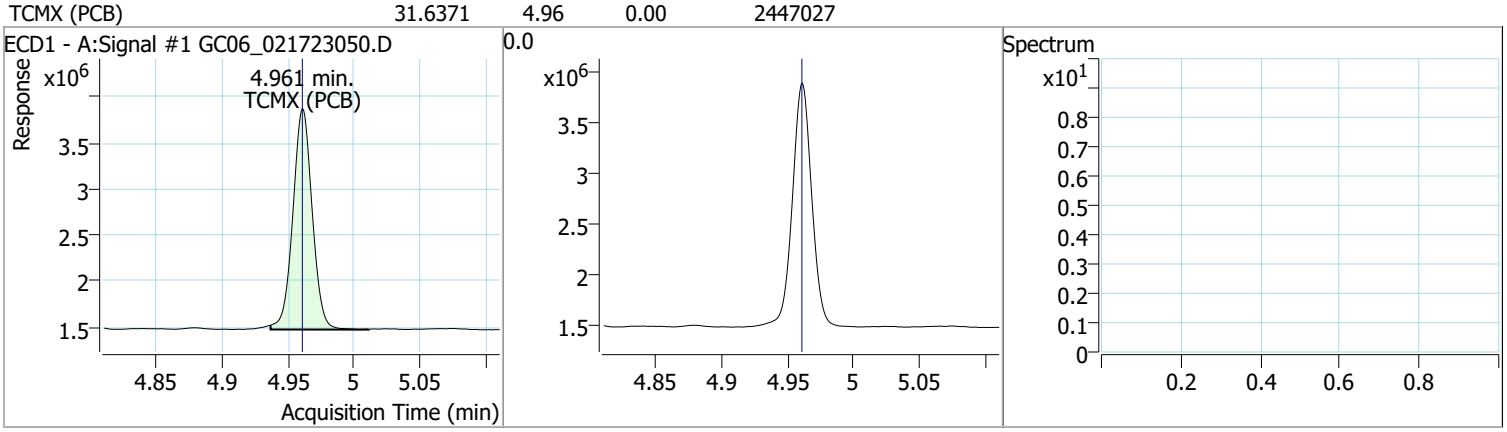


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.189	0.0	1470522.175	20.0000	ng/ml		-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.430	0.0	6650715.590	20.0000	ng/ml		-0.002
System Monitoring Compounds							
S TCMX (PCB)	4.961	0.0	2447027.466	31.6371	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 158.19%		*	
S TCMX (PCB) #2	5.353	0.0	10806405.980	31.9978	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 159.99%		*	
S Decachlorobiphenyl (PCB)	11.927	0.0	3942218.818	35.1376	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 175.69%		*	
S Decachlorobiphenyl (PCB) #2	13.269	0.0	11315871.568	28.1834	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 140.92%			
Target Compounds							QValue

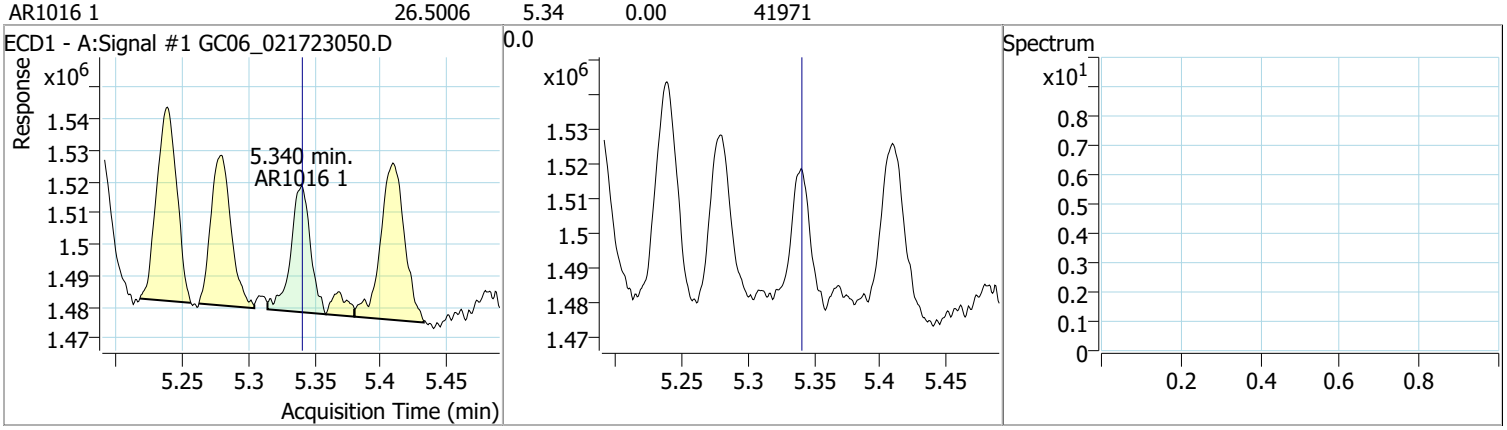
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.340	0.0	41971.197	26.5006	ng/ml	100
T AR1016 2	5.633	0.0	40014.826	9.2715	ng/ml	100
T AR1016 1 #2	5.885	0.0	491187.654	70.6894	ng/ml	100
T AR1016 3	6.079	0.0	376666.260	81.9459	ng/ml	100
T AR1016 4	6.218	0.0	74503.947	21.0265	ng/ml	100
T AR1016 2 #2	6.271	0.0	279450.907	17.2074	ng/ml	100
T AR1016 5	6.462	0.0	154683.554	89.5409	ng/ml	100
T AR1016 3 #2	6.795	0.0	2163869.426	108.8954	ng/ml	100
T AR1016 4 #2	6.926	0.0	194848.261	13.7513	ng/ml	100
T AR1016 5 #2	7.703	0.0	56075.209	4.8839	ng/ml	100
T AR1260 1	8.593	0.0	12896.912	2.1666	ng/ml	100
T AR1260 2	9.006	0.0	2421.750	0.2918	ng/ml	100
T AR1260 3	9.493	0.0	109803.434	11.7236	ng/ml	100
T AR1260 1 #2	9.898	0.0	69998.781	3.3350	ng/ml	100
T AR1260 4	10.018	0.0	351337.939	71.1228	ng/ml	100
T AR1260 2 #2	10.143	0.0	232488.706	9.3863	ng/ml	100
T AR1260 3 #2	0.000		0	N.D.		
T AR1260 5	10.773	0.0	804186.068	142.9928	ng/ml	100
T AR1260 4 #2	11.002	0.0	559521.633	33.0262	ng/ml	100
T AR1260 5 #2	11.653	0.0	180000.612	6.0793	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

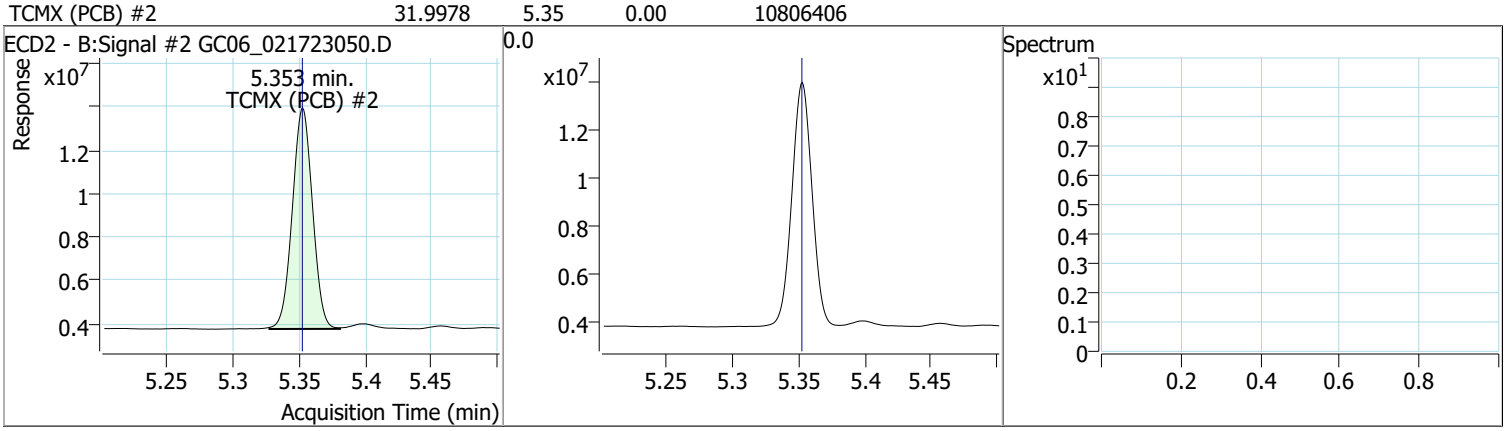
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	31.6371	4.96	0.00	2447027				



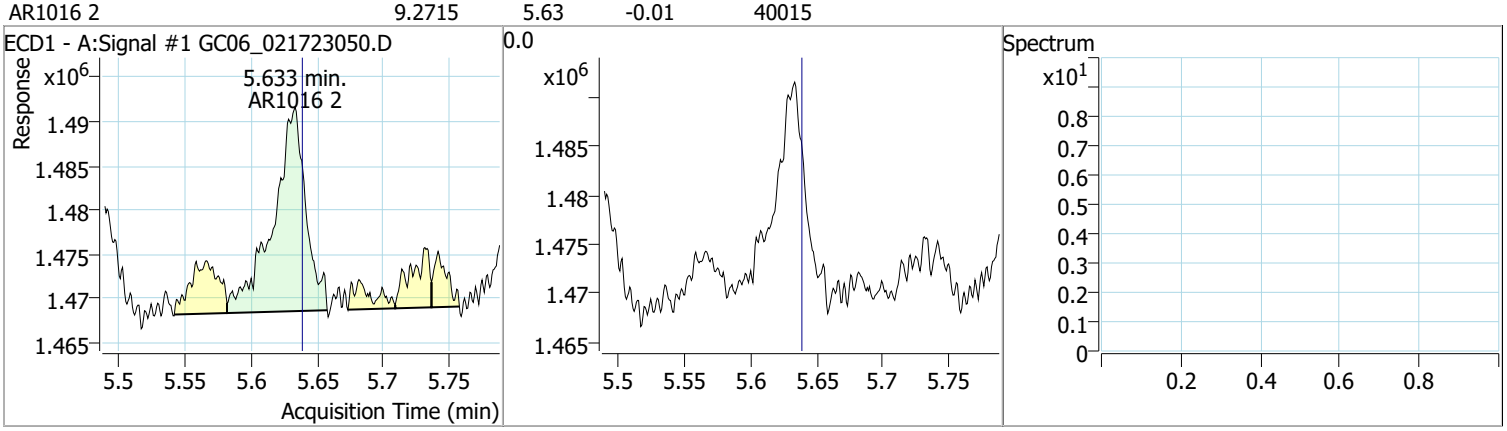
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	26.5006	5.34	0.00	41971				



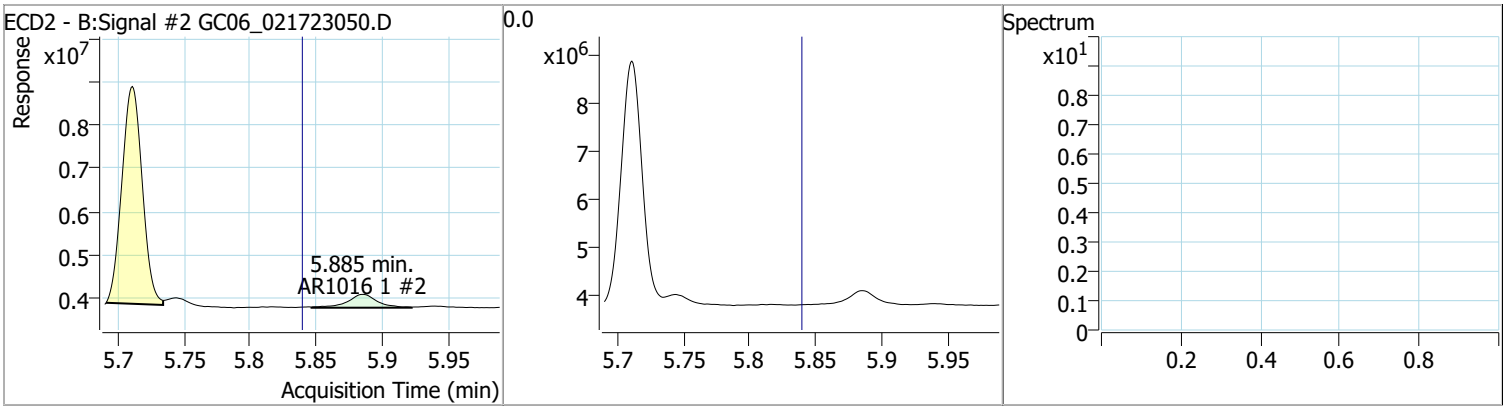
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	31.9978	5.35	0.00	10806406				



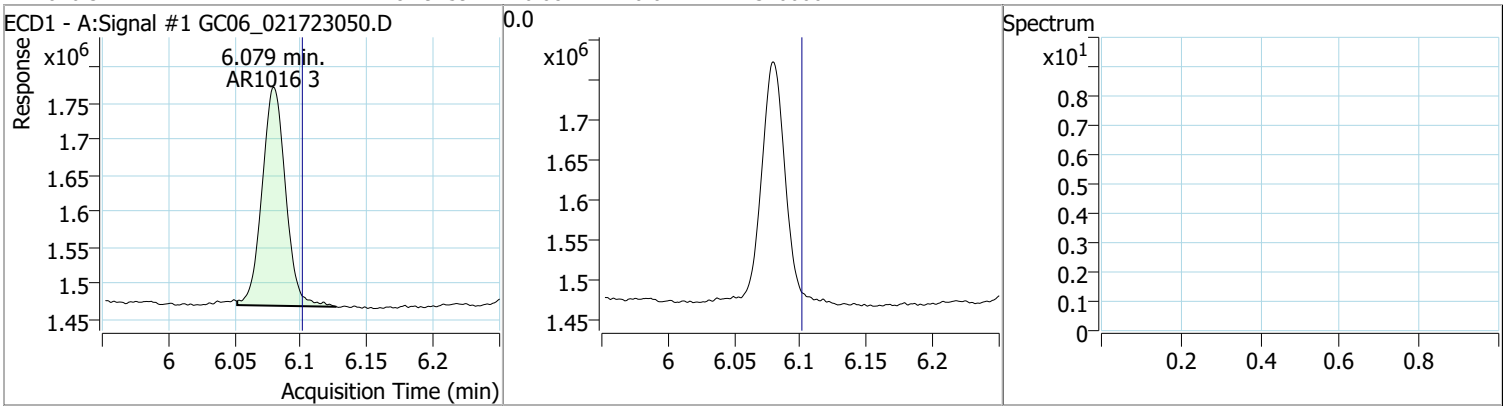
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	9.2715	5.63	-0.01	40015				



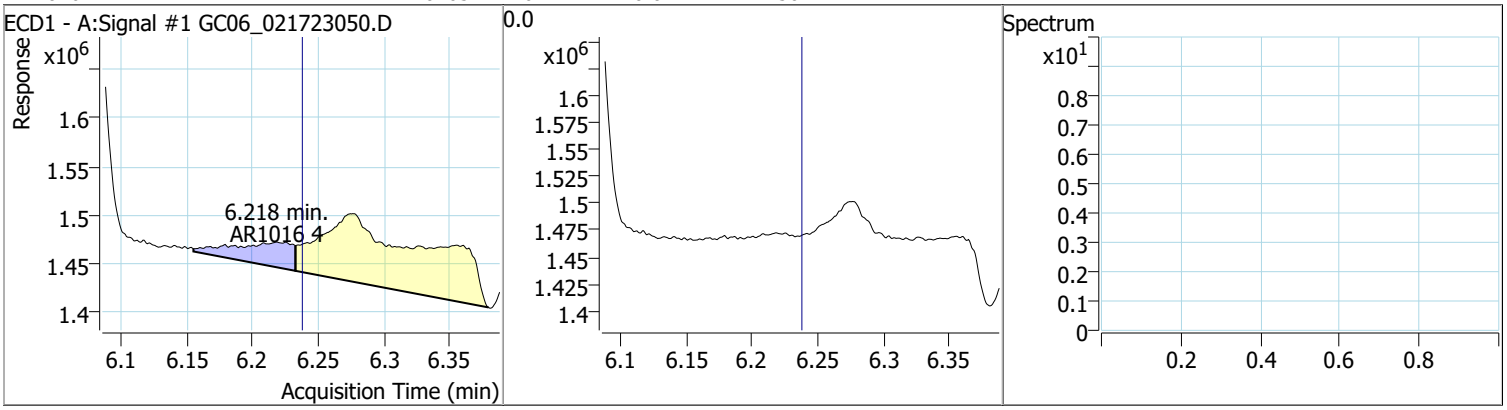
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	70.6894	5.89	0.04	491188				



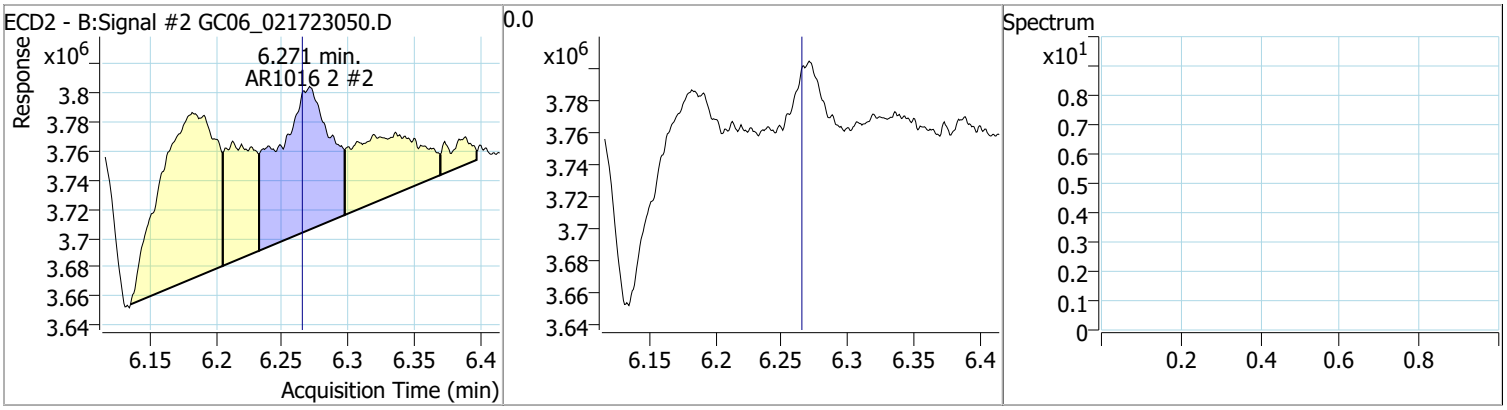
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	81.9459	6.08	-0.02	376666				



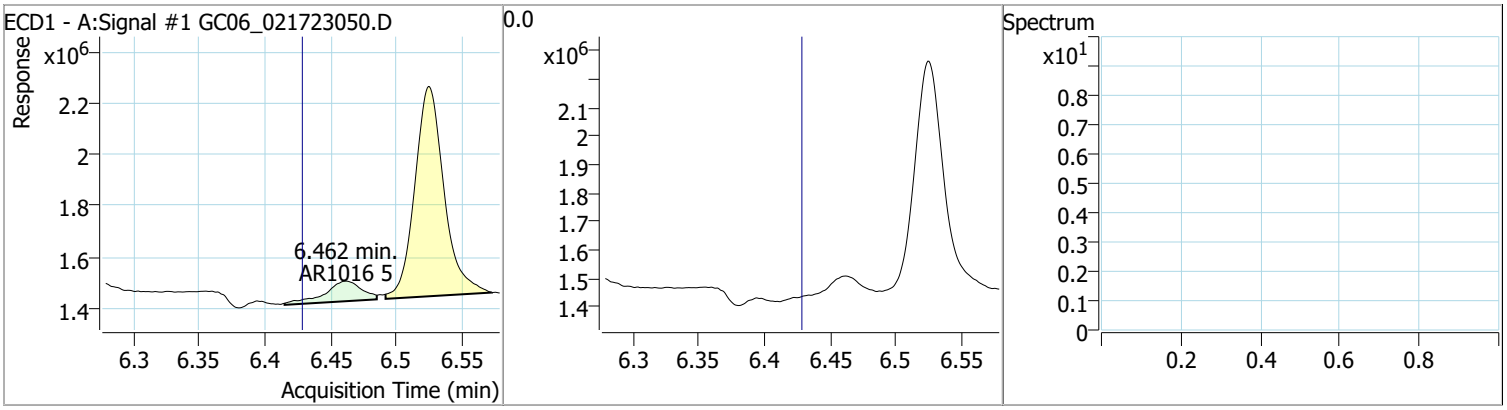
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	21.0265	6.22	-0.02	74504				



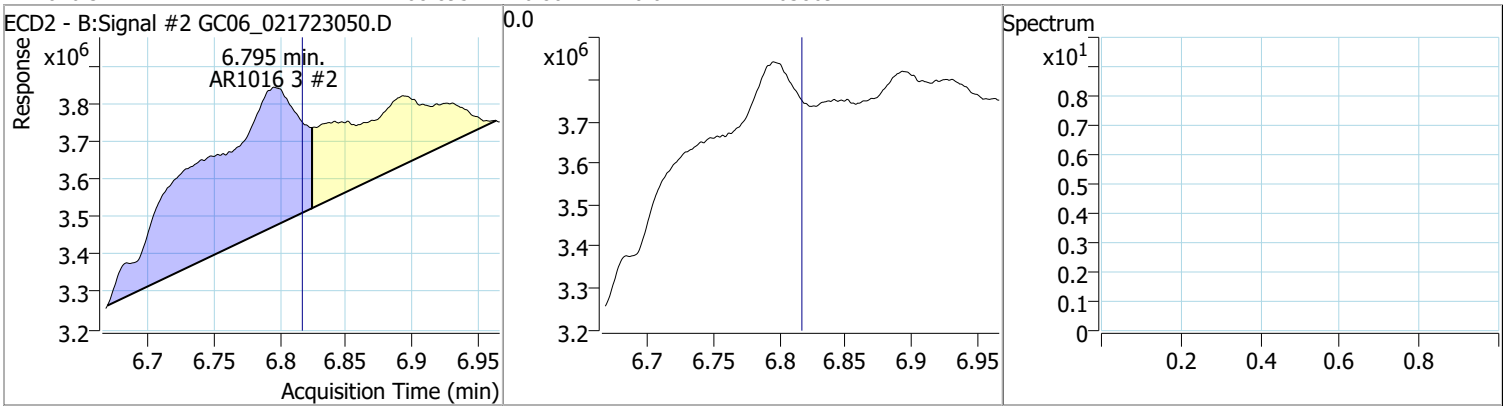
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	17.2074	6.27	0.00	279451				



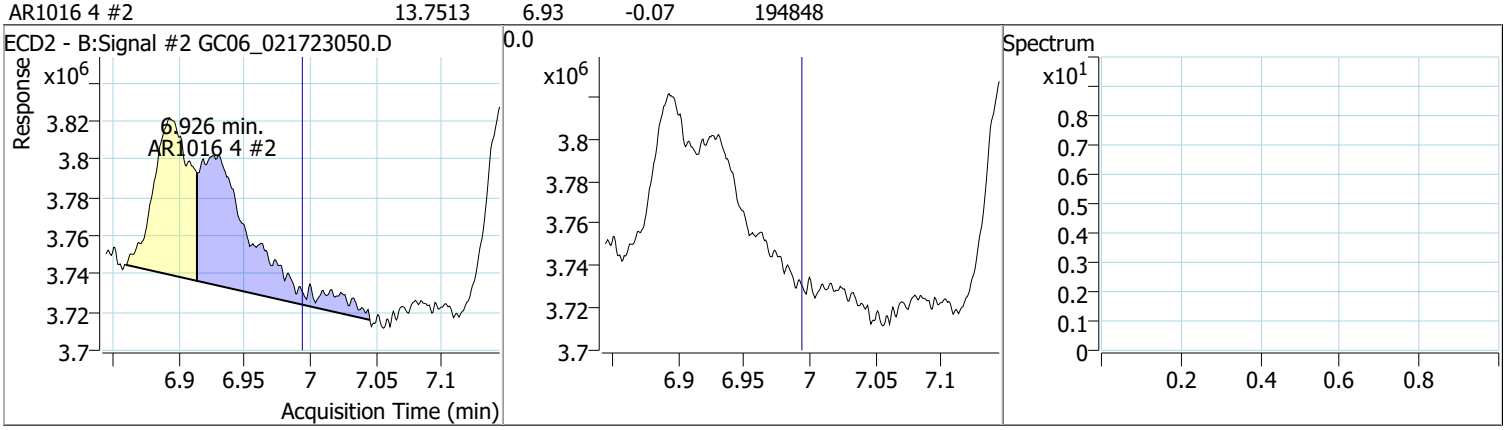
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	89.5409	6.46	0.03	154684				



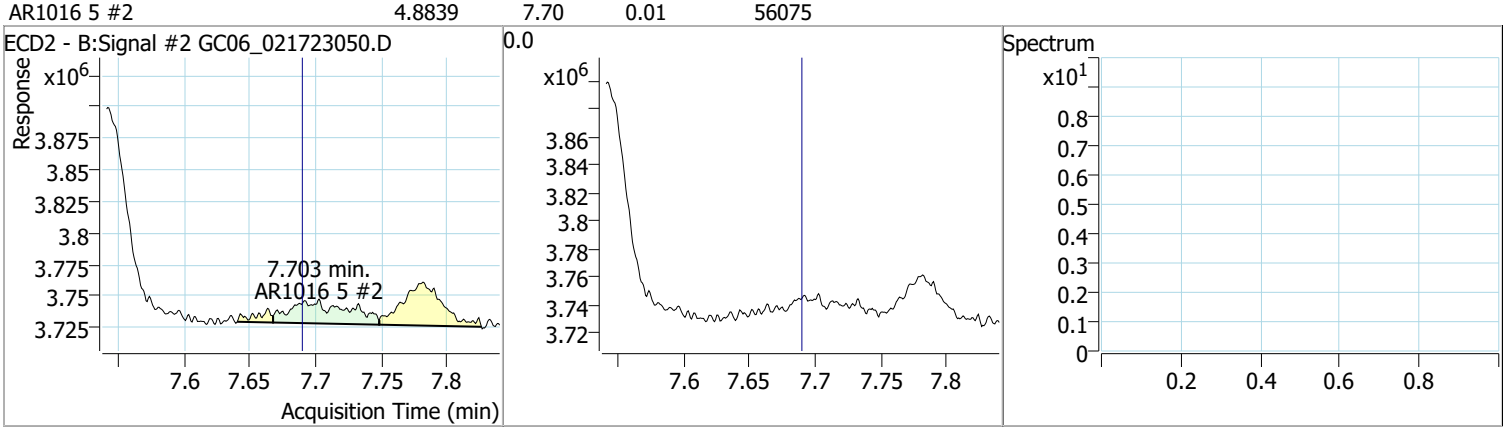
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	108.8954	6.80	-0.02	2163869				



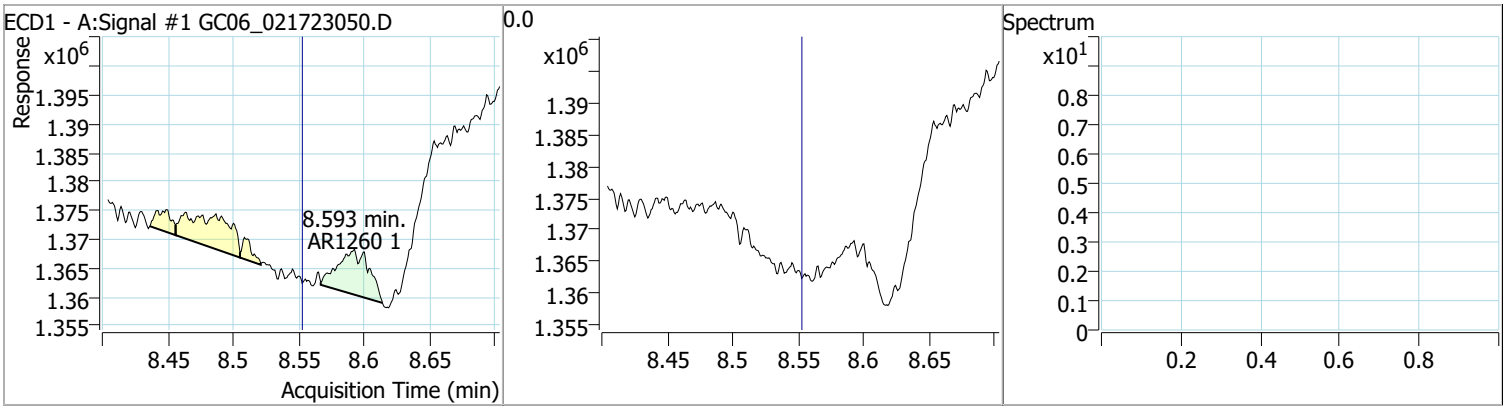
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	13.7513	6.93	-0.07	194848				



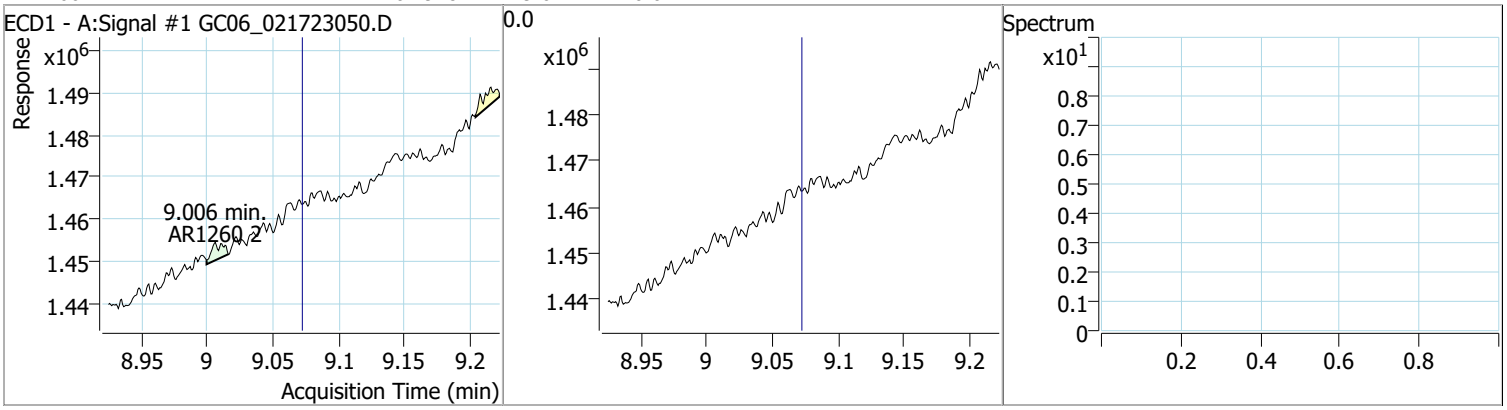
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	4.8839	7.70	0.01	56075				



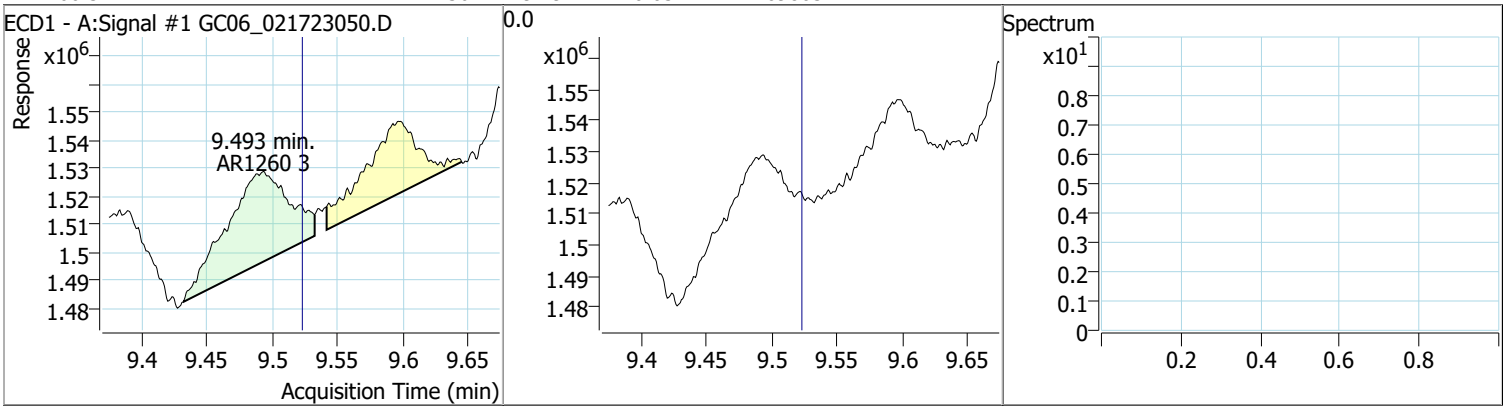
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	2.1666	8.59	0.04	12897				



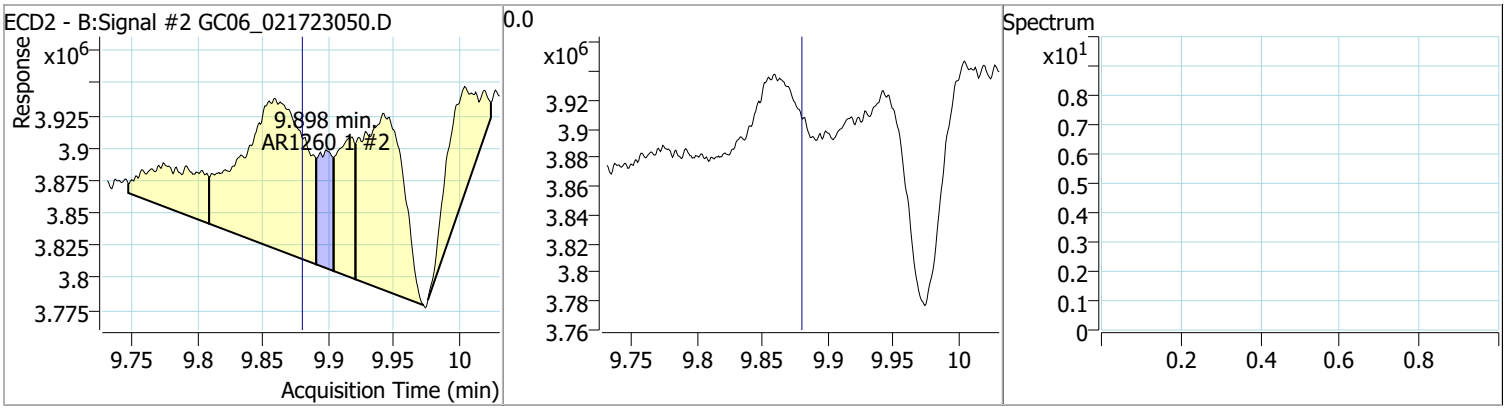
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.2918	9.01	-0.07	2422				



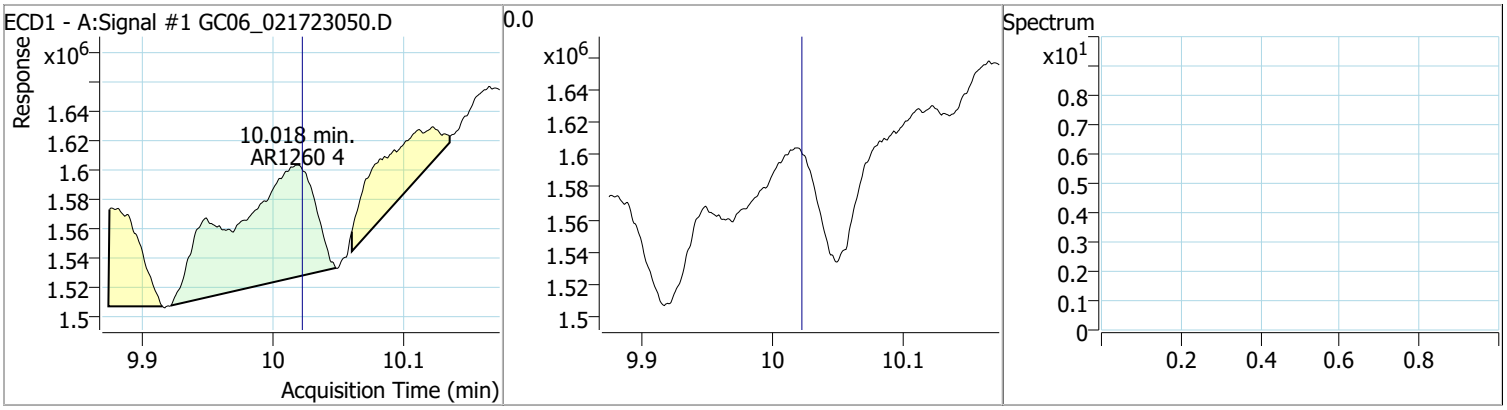
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	11.7236	9.49	-0.03	109803				



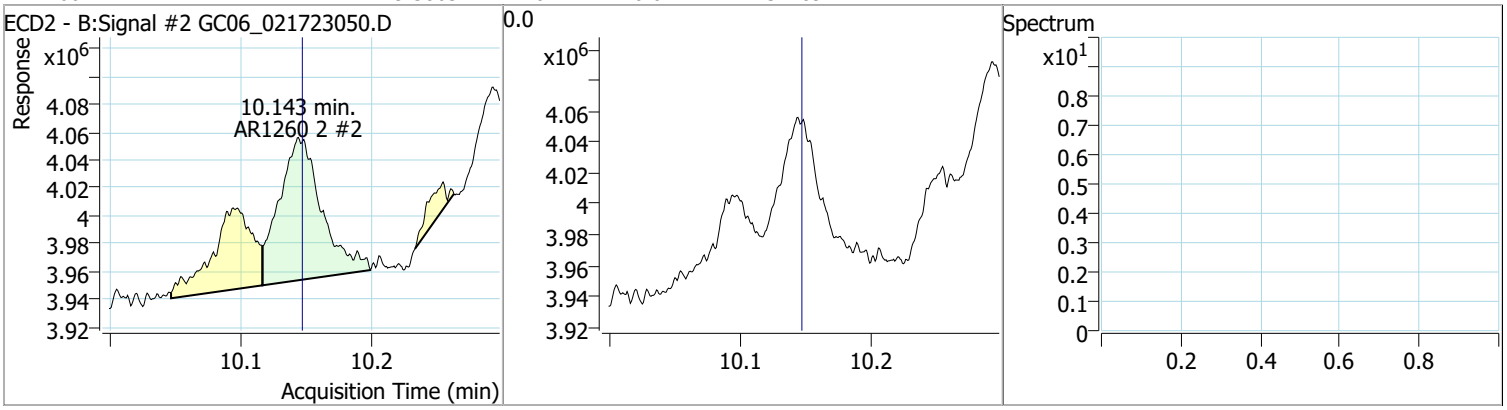
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	3.3350	9.90	0.02	69999				



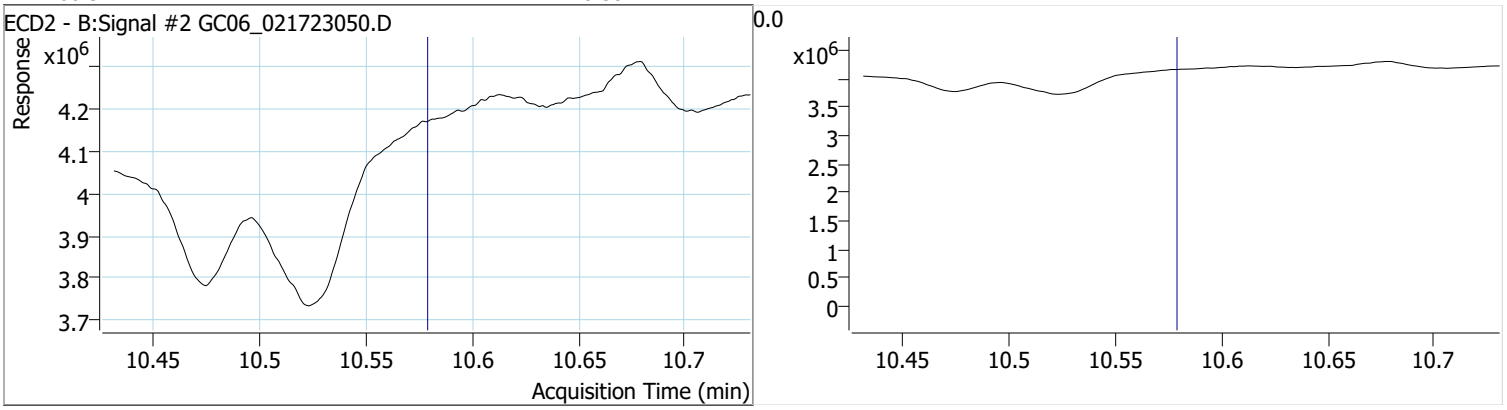
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	71.1228	10.02	-0.01	351338				



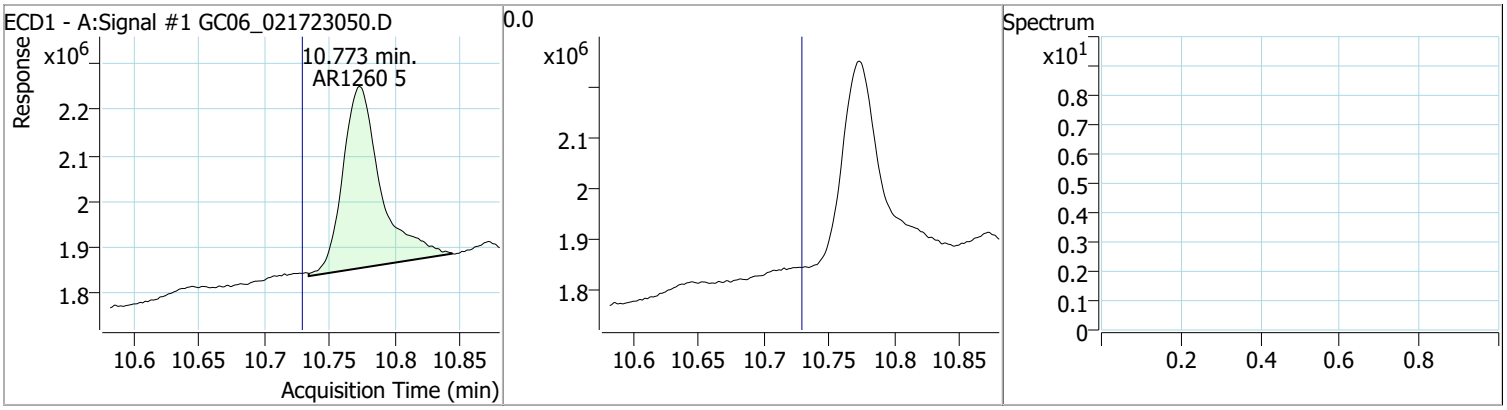
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	9.3863	10.14	-0.01	232489				



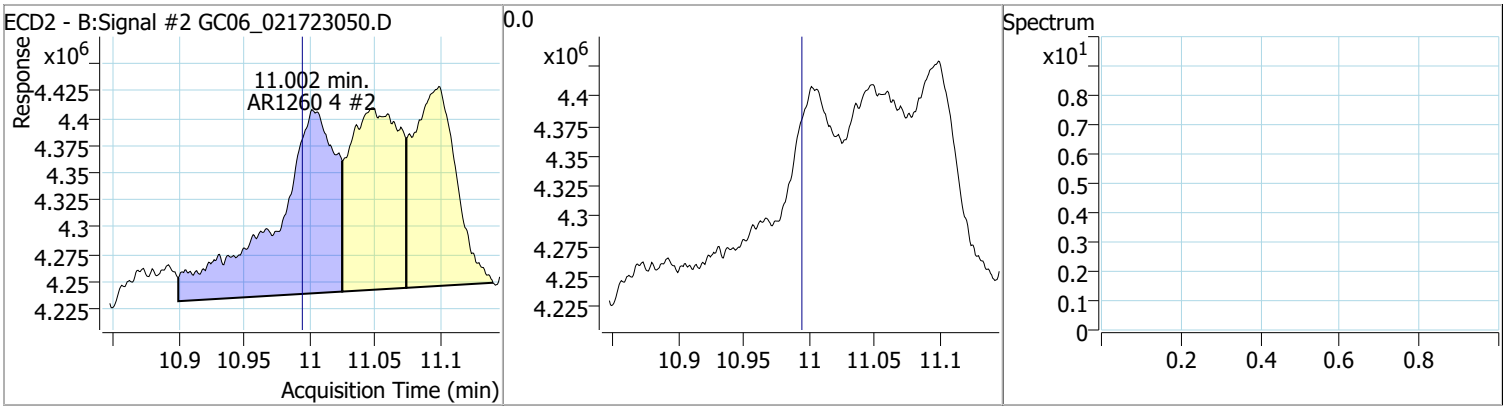
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3 #2	N.D.	10.58		



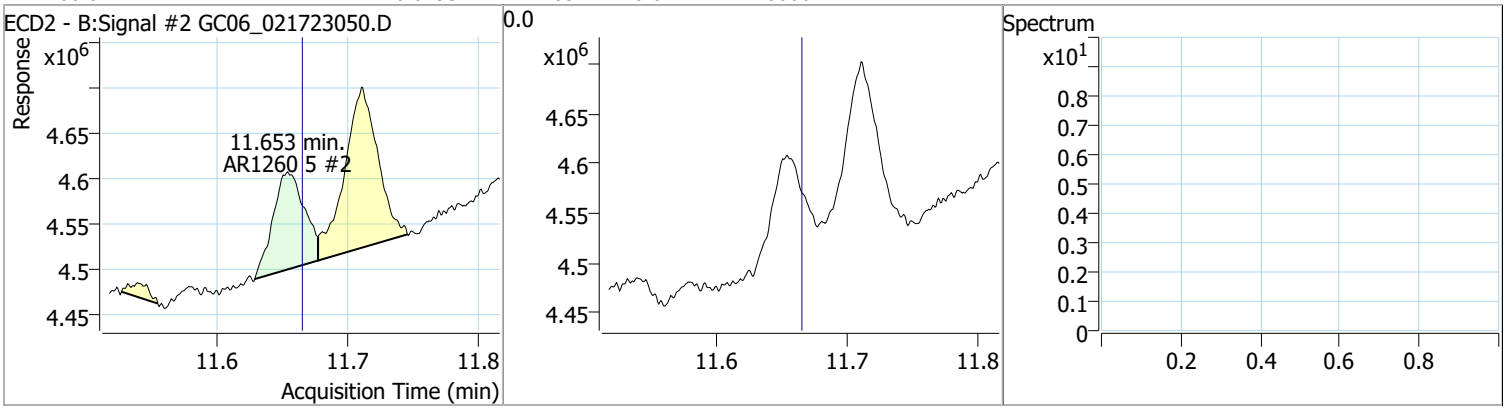
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	142.9928	10.77	0.04	804186				



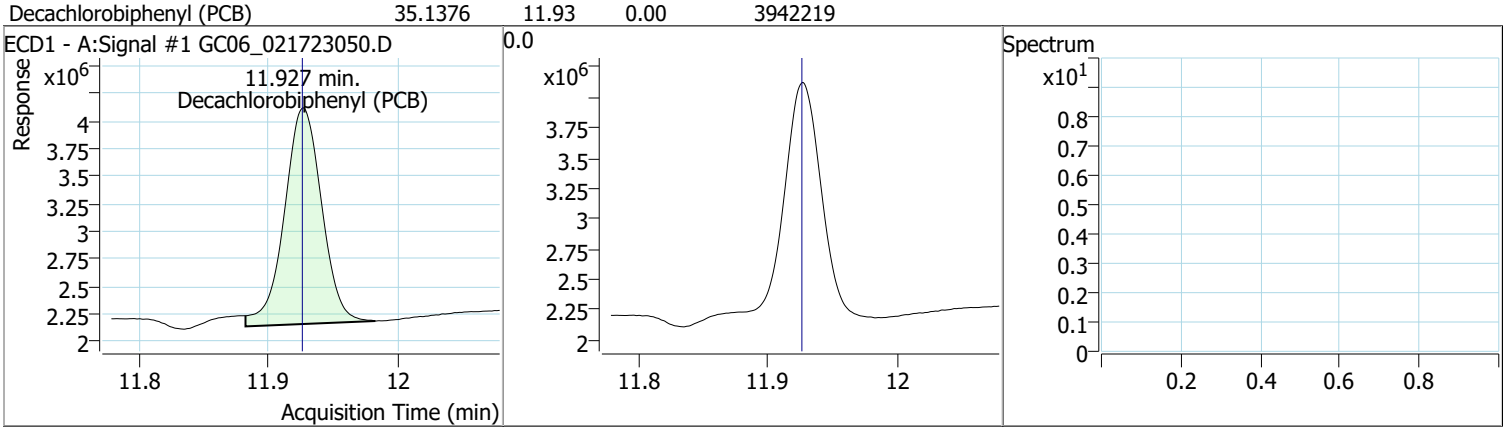
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	33.0262	11.00	0.00	559522				



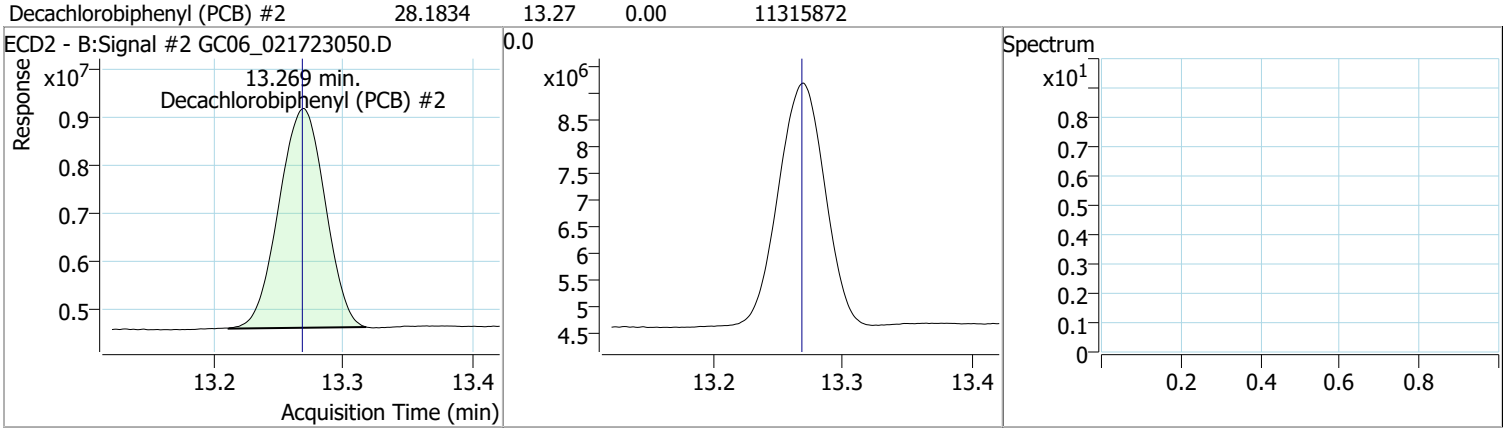
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	6.0793	11.65	-0.01	180001				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	35.1376	11.93	0.00	3942219				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	28.1834	13.27	0.00	11315872				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	479661-014	Client ID:	ARCH-C4E-INT-2.5 TO 3.5-230216-P-WF
Seqnum:	453069687051	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_021723051	Batch:	307899	Time:	18-FEB-2023 00:00
Cal:	453057263001	Caldate:	08-FEB-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	271.2	~~2.7~~ ~~FP~~	0.38	151%	0.50		x u
Aroclor-1016 Peak # 1	B	1107	11.07	0.36	187%			
Aroclor-1016 Peak # 2	B	72.24	0.72	0.10	151%			
Aroclor-1016 Peak # 3	B	144.2	1.44	0.58	86%			
Aroclor-1016 Peak # 4	B	32.27	0.32	0.22	37%			
Aroclor-1016 Peak # 5	B	0.2223	0.00	0.64	199%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	28.32	ND	0.44	43%	0.50		u
Aroclor-1260 Peak # 1	B	44.34	0.44	0.02	184%			
Aroclor-1260 Peak # 2	B	24.94	0.25	0.05	134%			
Aroclor-1260 Peak # 3	B	16.59	0.17	0.07	84%			
Aroclor-1260 Peak # 4	B	41.79	0.42	0.72	53%			
Aroclor-1260 Peak # 5	B	13.93	0.14	1.33	162%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	38.50	0.5000	0.3850	77	19-121	c- u
Decachlorobiphenyl (PCB)	B	31.05	0.5000	0.3105	62	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	6659056	**???**	**-100.00 ***
1-bromo-2-nitrobenzene (1268)	A	1543460	**???**	**-100.00 ***

ISTD (CCV gc06_021723029)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	8293841	6836629	-17.57
1-bromo-2-nitrobenzene (PCB)	A	1858745	1494797	-19.58

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.43	**???**	
1-bromo-2-nitrobenzene (1268)	A	4.19	**???**	

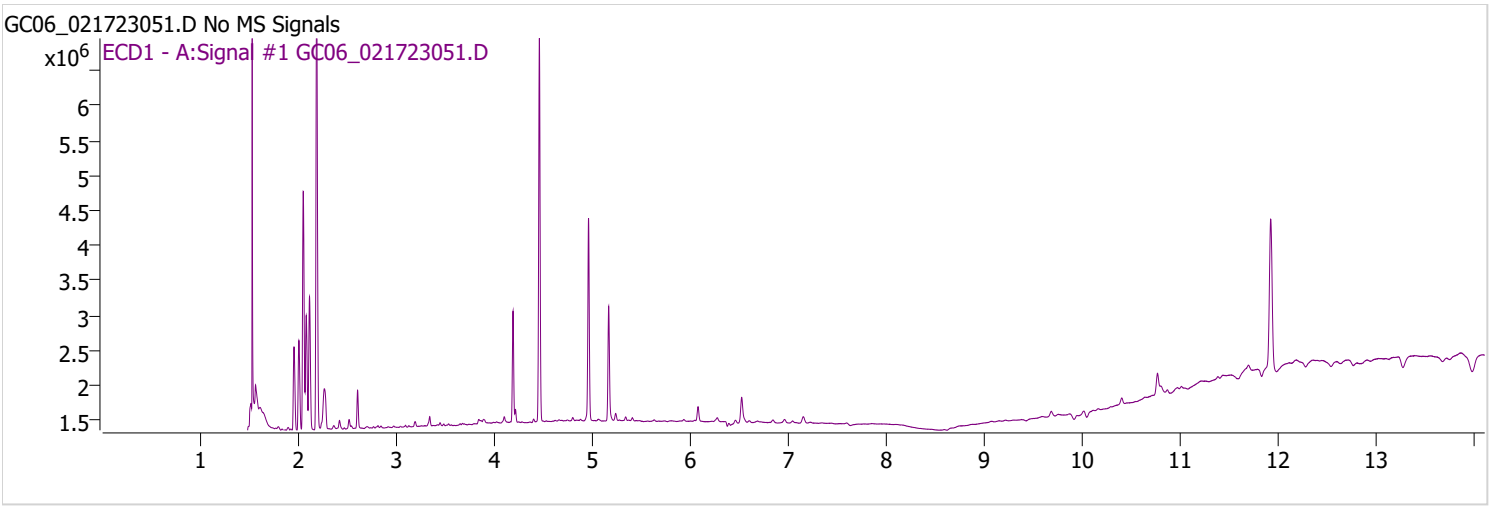
ISTD (CCV gc06_021723029)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.20	4.19	-0.01

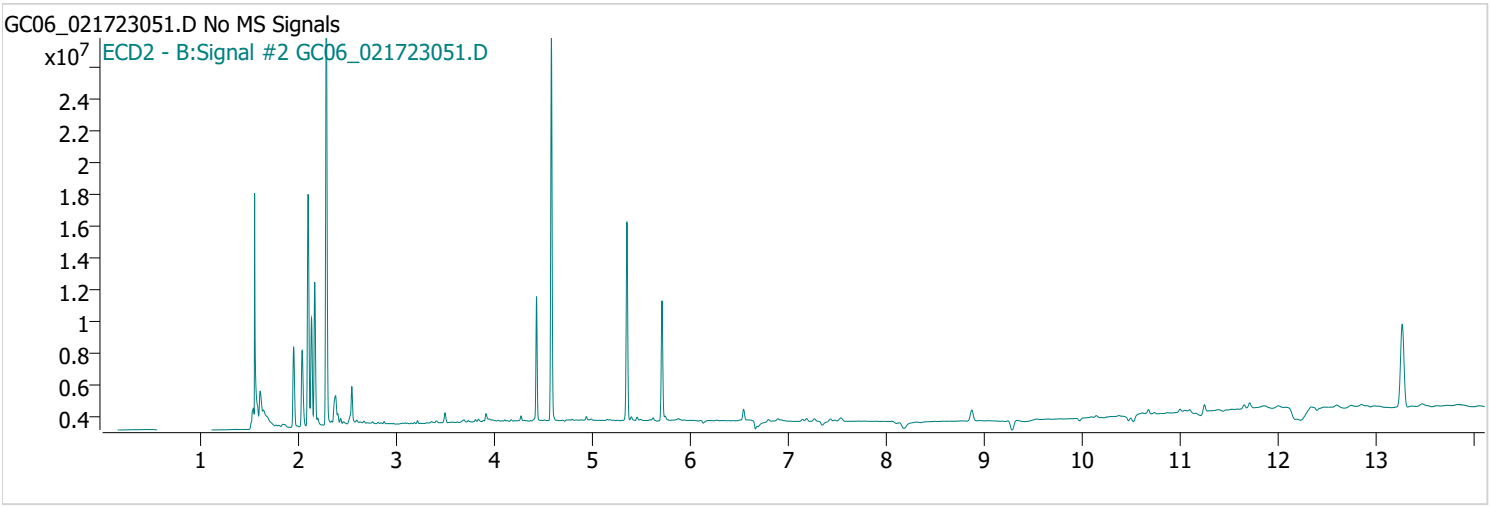
-=low bias c=CCV u=use x=false positive

Analyst: MES 02/20/23 **Reviewer:** LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723051.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/18/2023 12:00:03 AM
Sample Name	479661-014, 307899, 1	Instrument	SVOA-GC06
Vial	30	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
Ref Library			



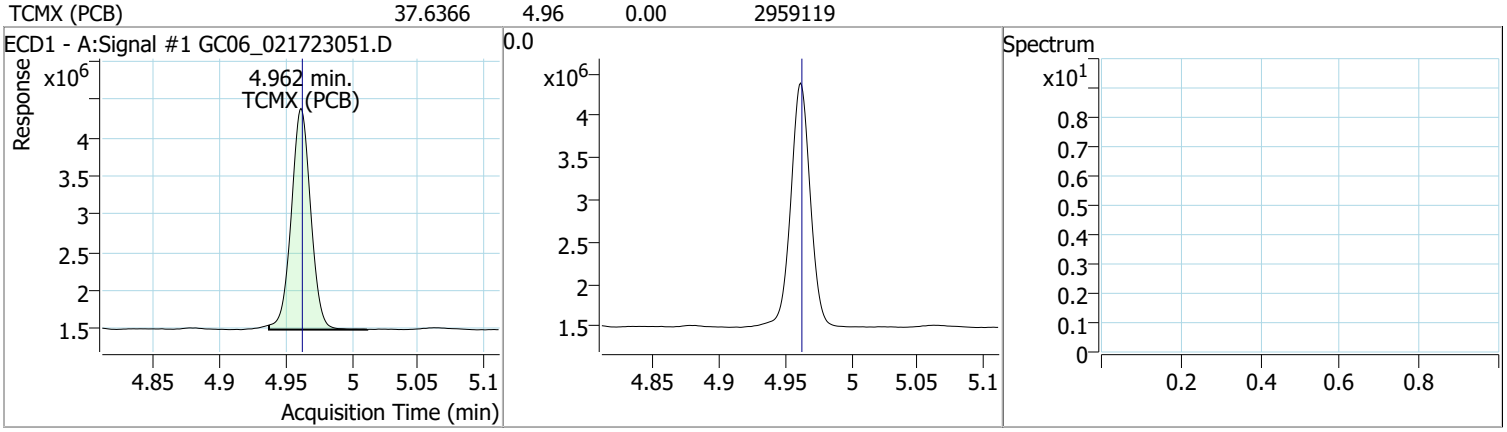


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.191	0.0	1494796.836	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.431	0.0	6836629.378	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	4.962	0.0	2959118.819	37.6366	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 188.18%		*	
S TCMX (PCB) #2	5.354	0.0	13367340.937	38.5044	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 192.52%		*	
S Decachlorobiphenyl (PCB)	11.927	0.0	4516223.142	39.6001	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 198.00%		*	
S Decachlorobiphenyl (PCB) #2	13.268	0.0	12814824.357	31.0488	ng/ml		-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 155.24%		*	
Target Compounds							QValue

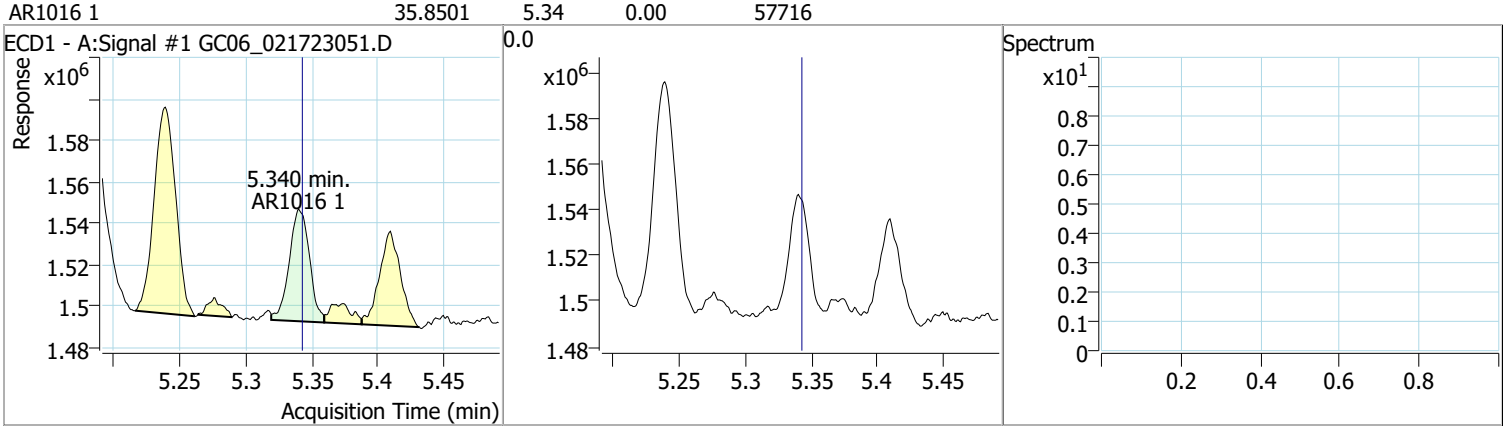
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.340	0.0	57716.037	35.8501	ng/ml	100
T AR1016 2	5.630	0.0	44590.939	10.1641	ng/ml	100
T AR1016 1 #2	5.712	0.0	7906168.109	1106.8768	ng/ml	100
T AR1016 3	6.080	0.0	269646.568	57.7105	ng/ml	100
T AR1016 4	6.223	0.0	79709.566	22.1303	ng/ml	100
T AR1016 2 #2	6.268	0.0	1205997.949	72.2406	ng/ml	100
T AR1016 5	6.460	0.0	111708.544	63.6140	ng/ml	100
T AR1016 3 #2	6.895	0.0	2945056.379	144.1778	ng/ml	100
T AR1016 4 #2	6.895	0.0	470090.670	32.2741	ng/ml	100
T AR1016 5 #2	7.682	0.0	2623.839	0.2223	ng/ml	100
T AR1260 1	8.595	0.0	11482.713	1.8977	ng/ml	100
T AR1260 2	9.081	0.0	41795.616	4.9535	ng/ml	100
T AR1260 3	9.593	0.0	64207.471	6.7441	ng/ml	100
T AR1260 1 #2	9.943	0.0	956603.076	44.3370	ng/ml	100
T AR1260 4	10.020	0.0	360082.221	71.7092	ng/ml	100
T AR1260 2 #2	10.145	0.0	634911.841	24.9362	ng/ml	100
T AR1260 3 #2	10.678	0.0	550760.678	16.5921	ng/ml	100
T AR1260 5	10.771	0.0	761804.174	133.2571	ng/ml	100
T AR1260 4 #2	11.001	0.0	727864.150	41.7944	ng/ml	100
T AR1260 5 #2	11.655	0.0	424058.092	13.9325	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

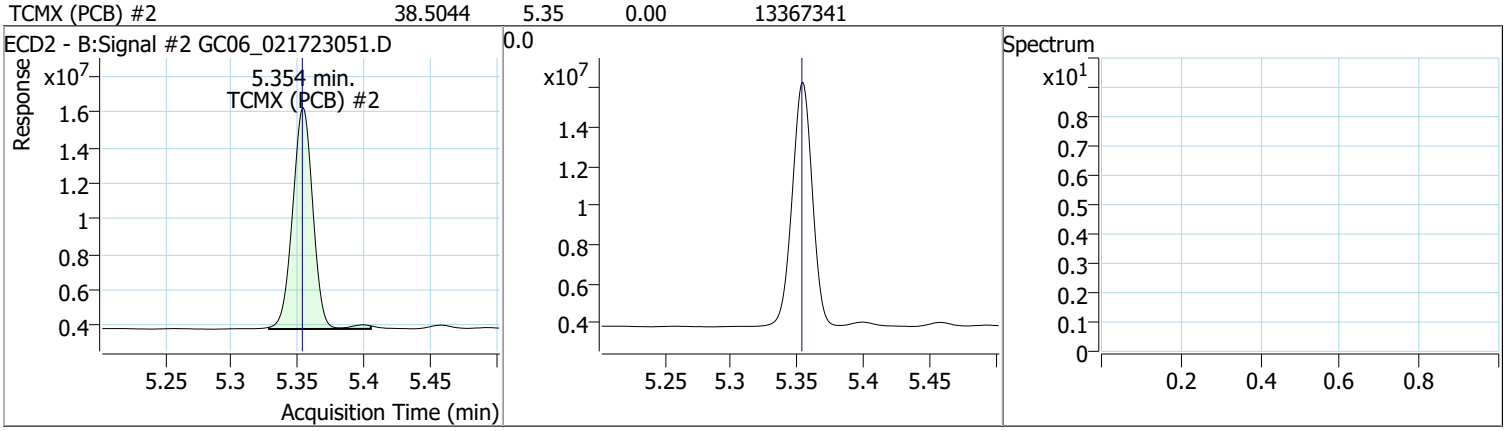
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	37.6366	4.96	0.00	2959119				



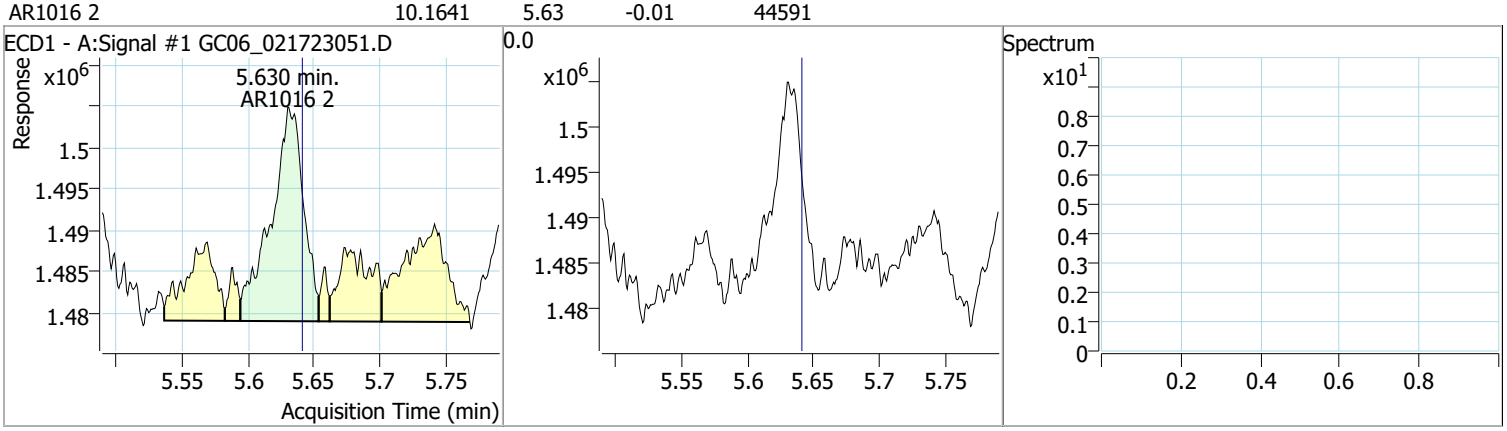
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	35.8501	5.34	0.00	57716				



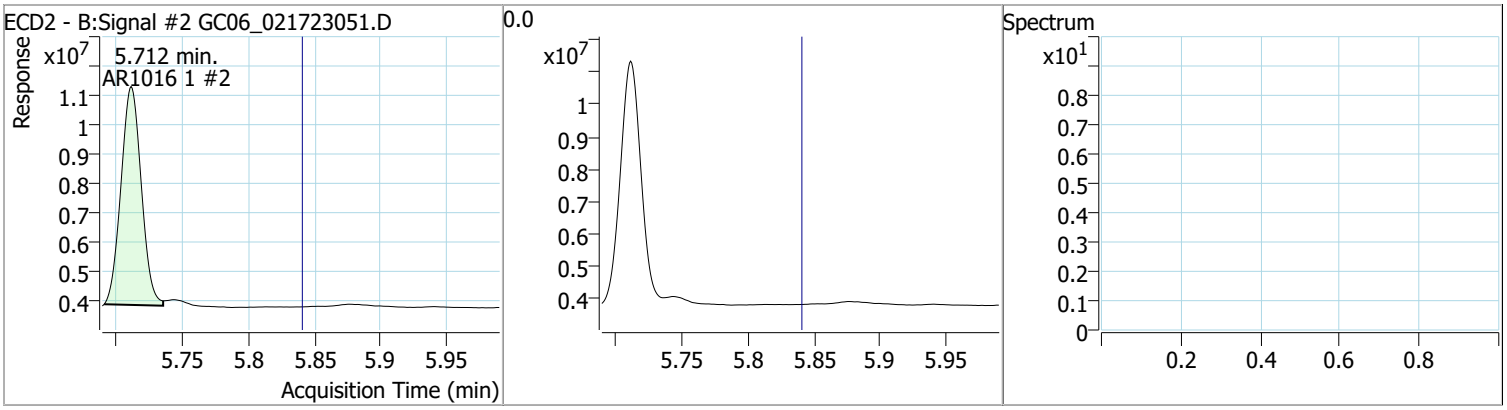
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	38.5044	5.35	0.00	13367341				



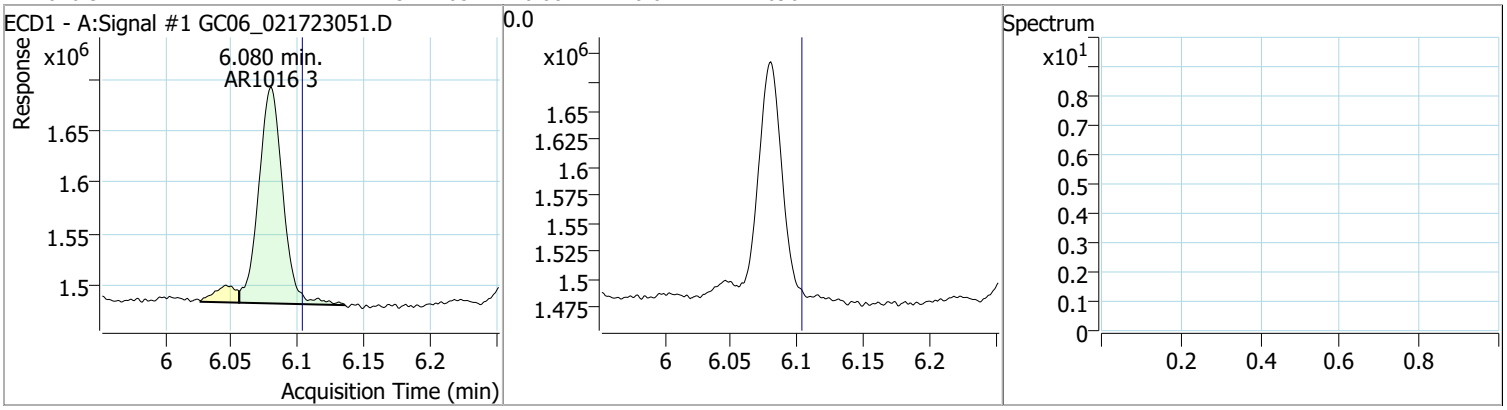
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	10.1641	5.63	-0.01	44591				



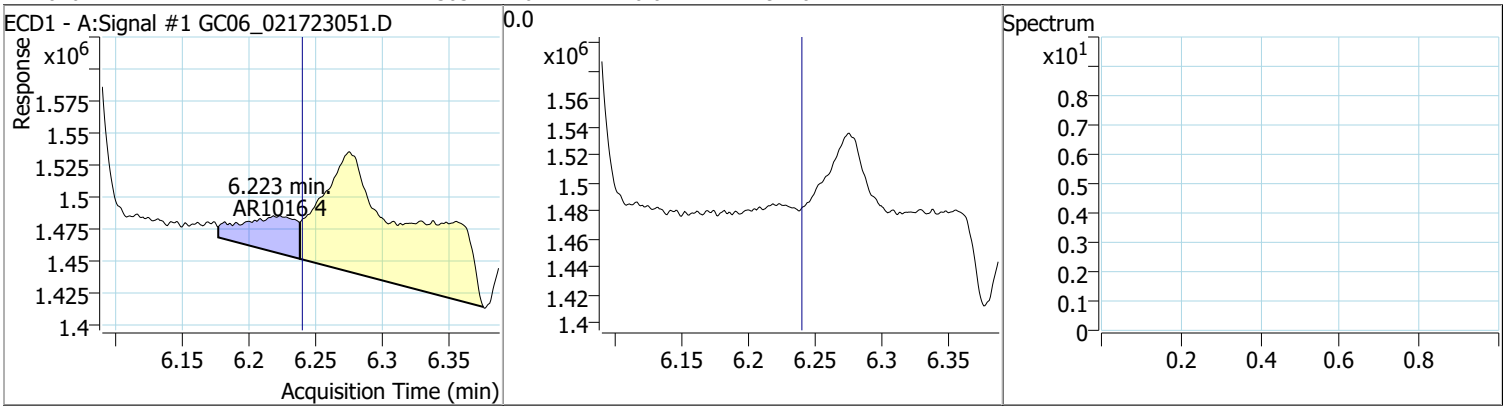
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1106.8768	5.71	-0.13	7906168				



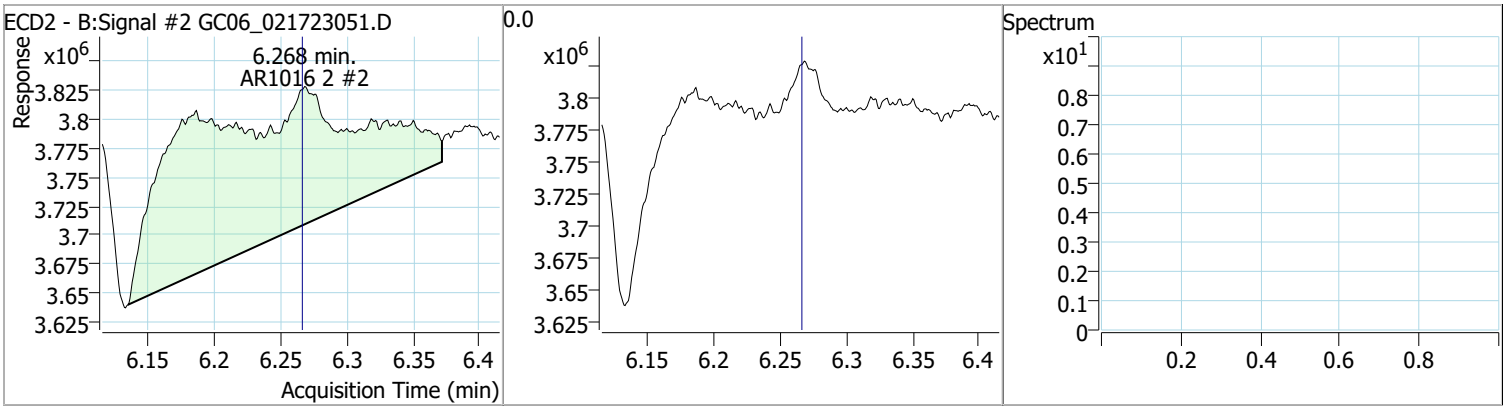
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	57.7105	6.08	-0.02	269647				



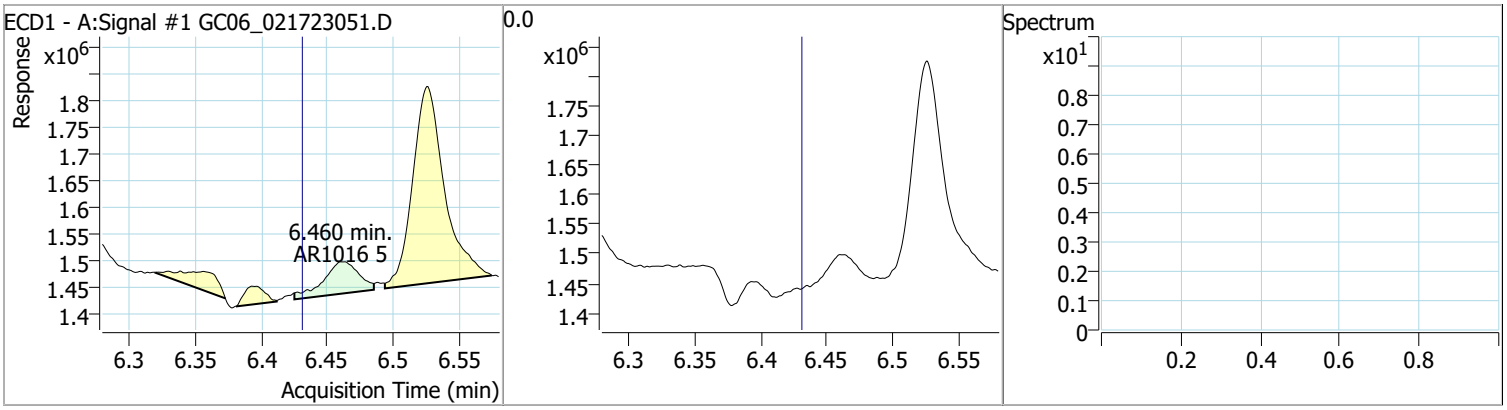
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	22.1303	6.22	-0.02	79710				



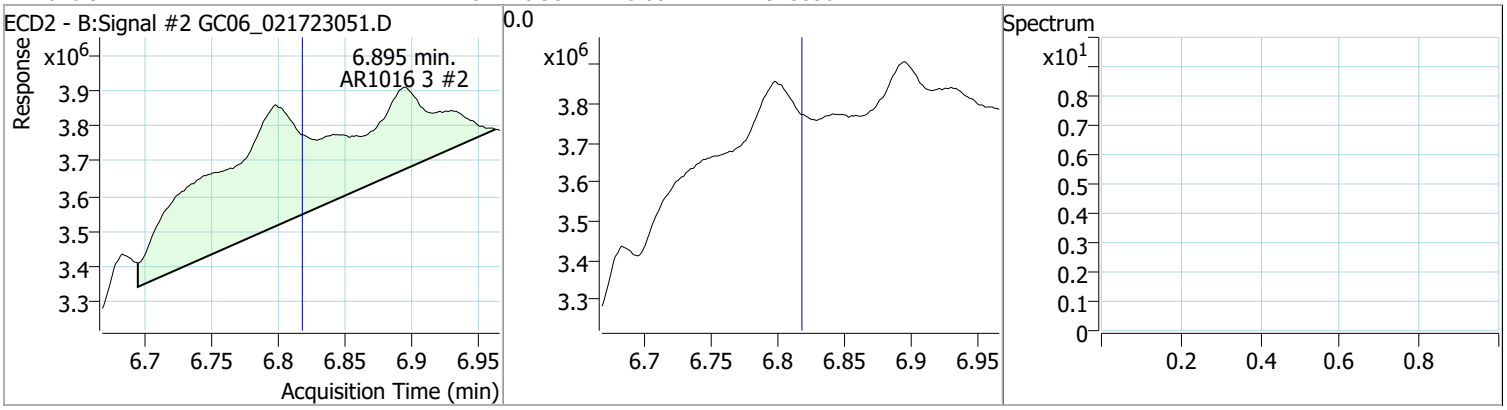
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	72.2406	6.27	0.00	1205998				



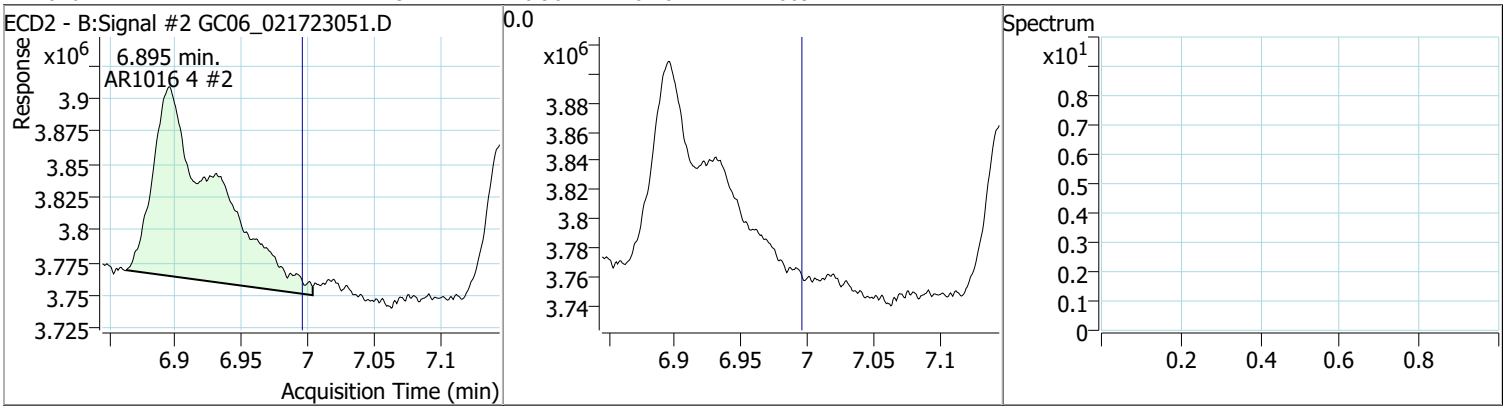
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	63.6140	6.46	0.03	111709				



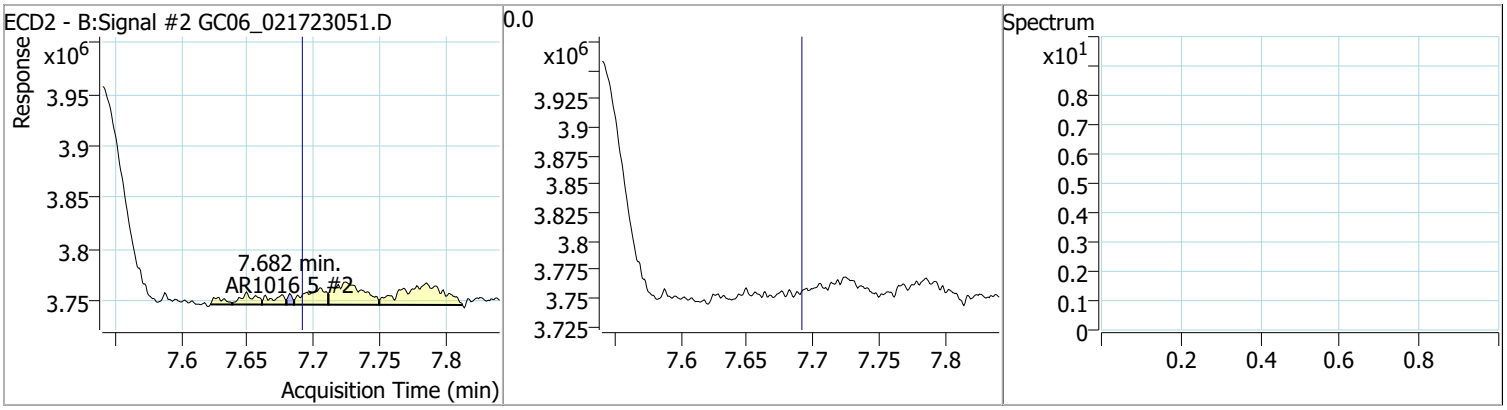
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	144.1778	6.90	0.08	2945056				



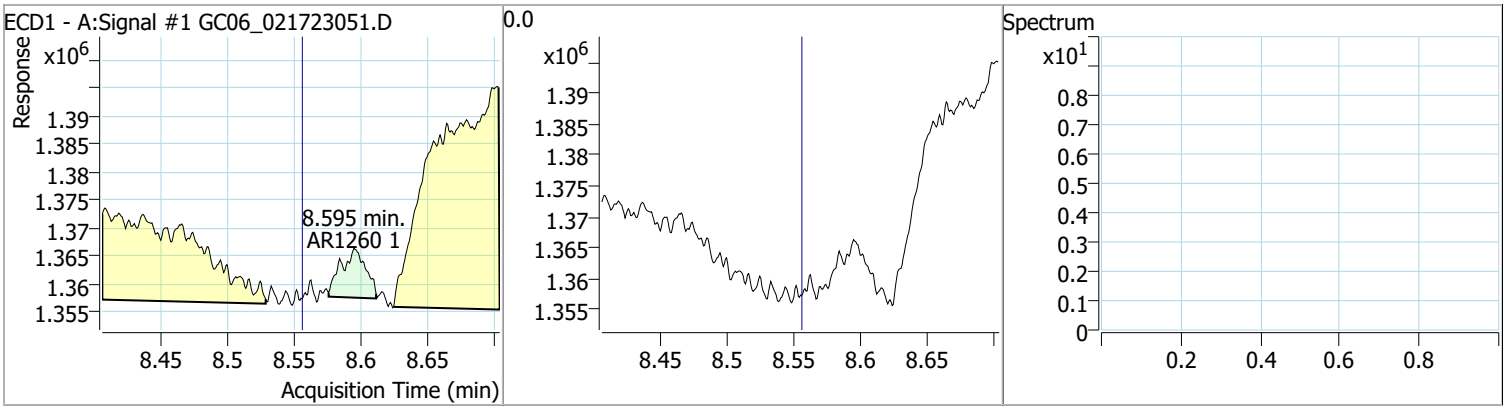
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	32.2741	6.90	-0.10	470091				



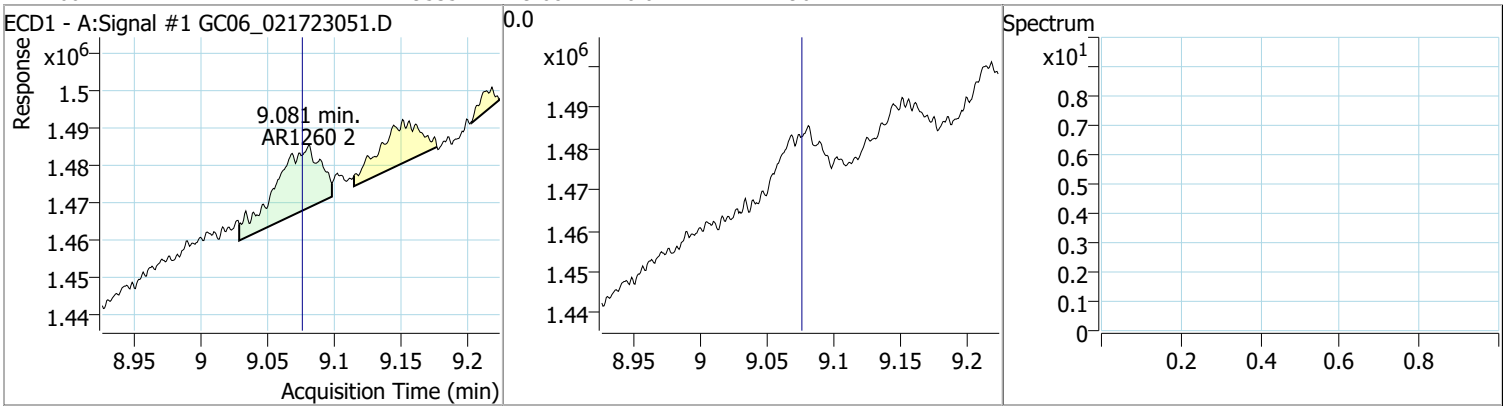
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	0.2223	7.68	-0.01	2624				



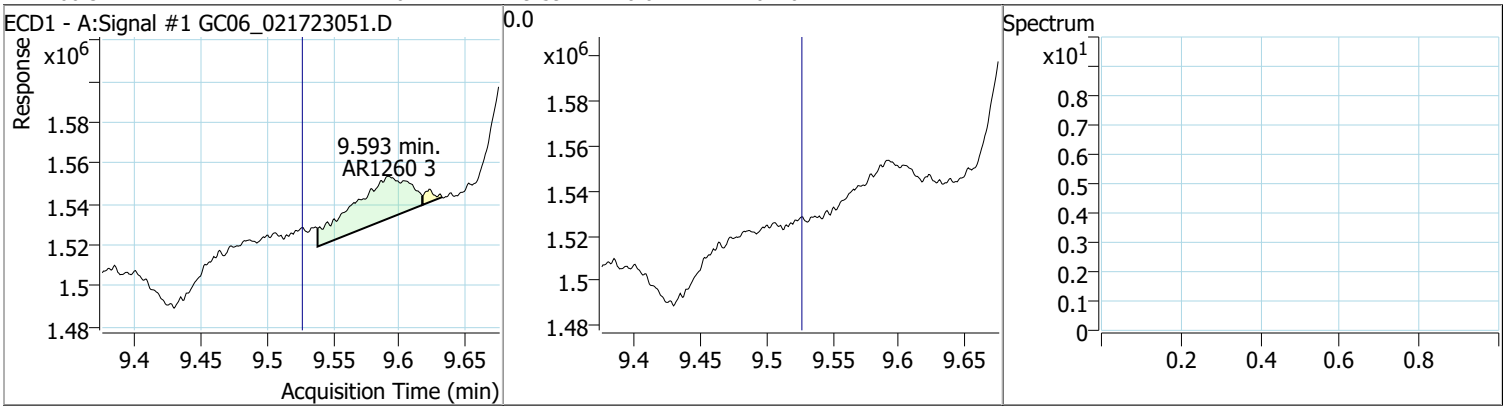
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1.8977	8.60	0.04	11483				



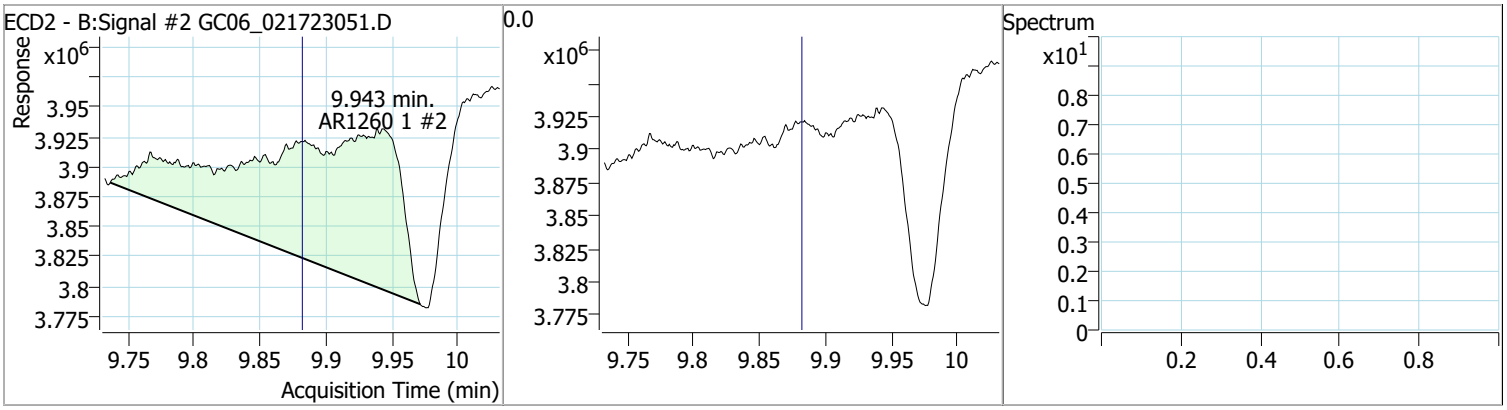
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	4.9535	9.08	0.01	41796				



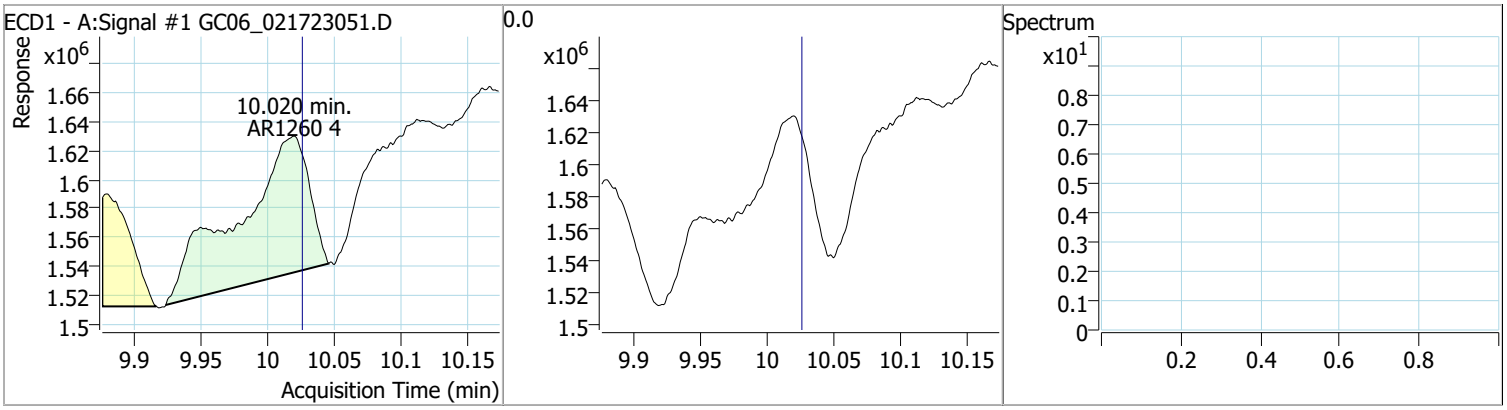
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	6.7441	9.59	0.07	64207				



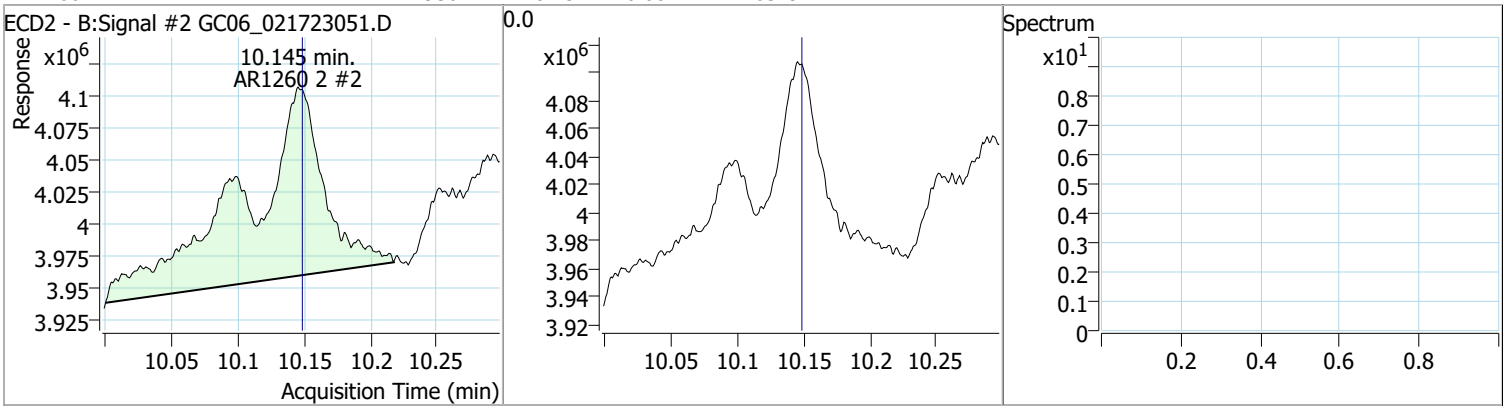
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	44.3370	9.94	0.06	956603				



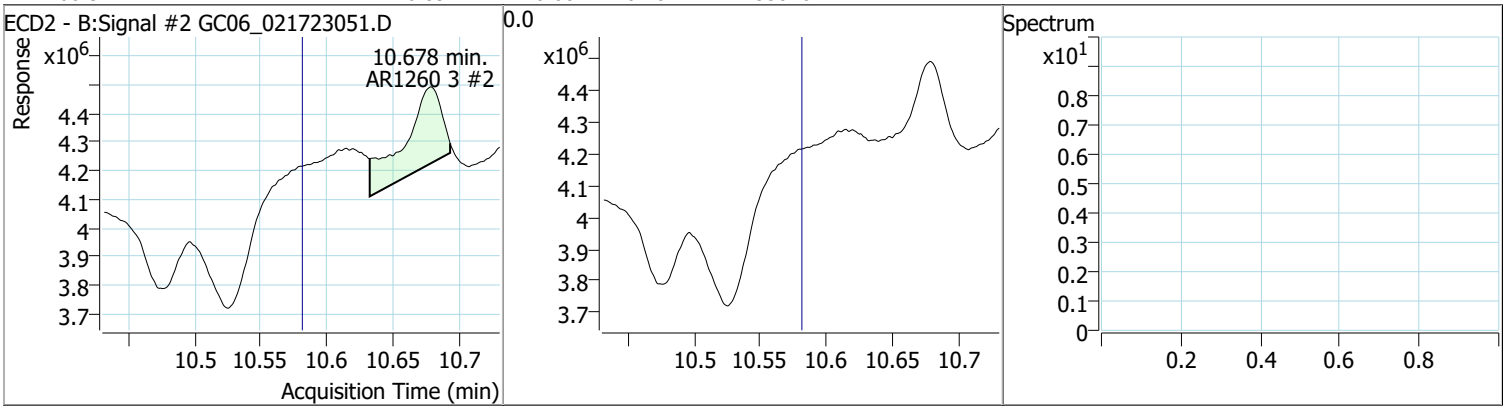
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	71.7092	10.02	-0.01	360082				



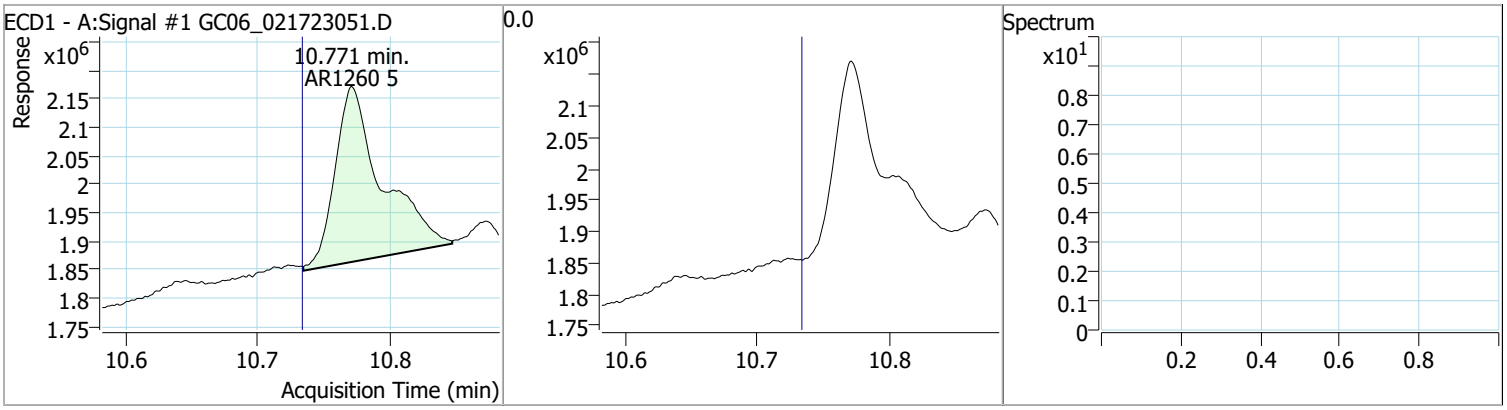
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	24.9362	10.15	0.00	634912				



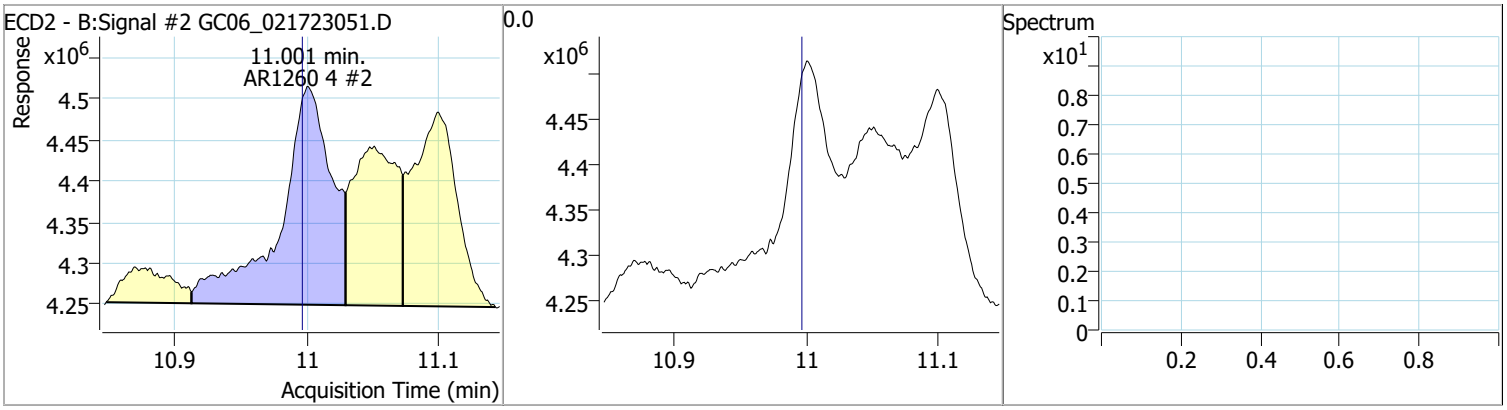
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	16.5921	10.68	0.10	550761				



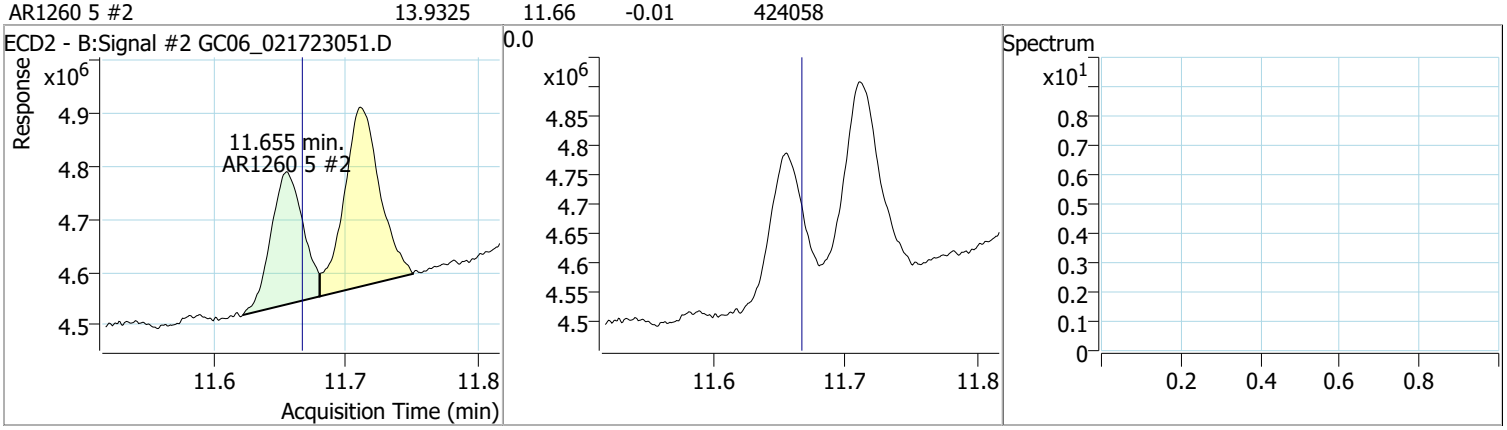
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	133.2571	10.77	0.04	761804				



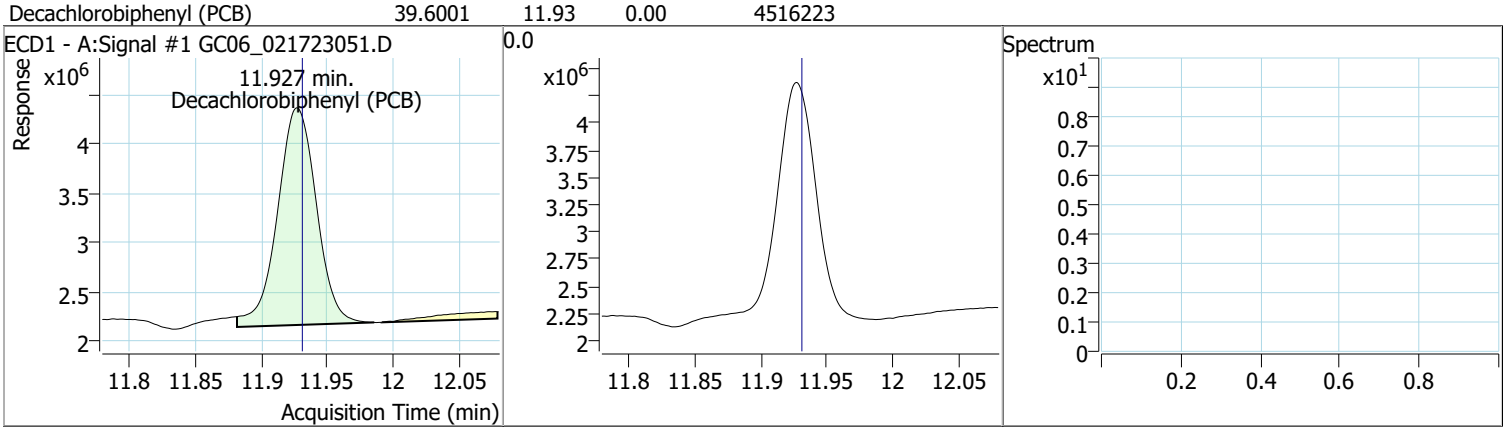
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	41.7944	11.00	0.00	727864				



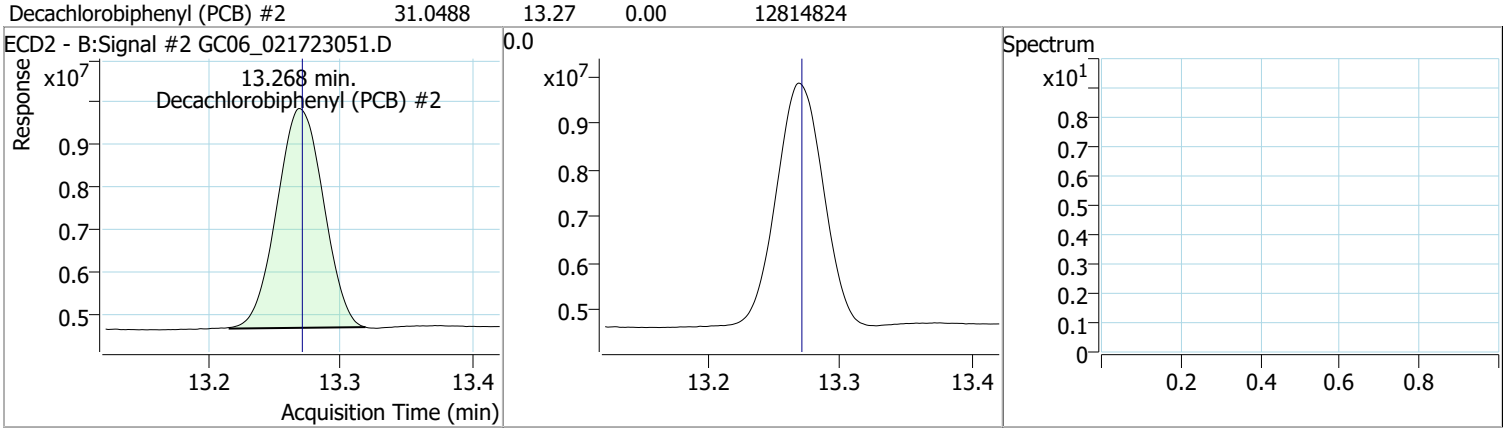
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	13.9325	11.66	-0.01	424058				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	39.6001	11.93	0.00	4516223				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	31.0488	13.27	0.00	12814824				



QC Raw Data

ENTHALPY BLANK USER REPORT FOR 479661 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Lab ID:	QC1046509		
Seqnum:	453069687038.2	Matrix:	Wipe		
File:	gc06_021723038	Batch:	307899	Time:	17-FEB-2023 20:00
Cal:	453057263001	Caldate:	08-FEB-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Flags
Aroclor-1016	B	26.10	ND	0.21	23%	0.50	u
Aroclor-1016 Peak # 1	B	33.41	0.33	0.39	15%		
Aroclor-1016 Peak # 2	B	1.343	0.01	0.03	83%		
Aroclor-1016 Peak # 3	B	95.42	0.95	0.00	199%		
Aroclor-1016 Peak # 4	B	0.1909	0.00	0.03	176%		
Aroclor-1016 Peak # 5	B	0.1269	0.00	0.59	199%		
Aroclor-1221	B		ND			0.50	u
Aroclor-1232	B		ND			0.50	u
Aroclor-1242	B		ND			0.50	u
Aroclor-1248	B		ND			0.50	u
Aroclor-1254	B		ND			0.50	u
Aroclor-1260	B	6.973	ND	ND	49%	0.50	u
Aroclor-1260 Peak # 1	B	1.392	0.01	0.05	118%		
Aroclor-1260 Peak # 2	B	3.390	0.03	0.01	100%		
Aroclor-1260 Peak # 3	B	24.05	0.24	0.07	107%		
Aroclor-1260 Peak # 4	B	5.493	0.05	0.28	135%		
Aroclor-1260 Peak # 5	B	0.5408	0.01	0.15	186%		
Aroclor-1262	B		ND			0.50	u
Aroclor-1268	B		ND			0.50	u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	30.53	0.5000	0.3053	61	19-121	c- u
Decachlorobiphenyl (PCB)	B	27.36	0.5000	0.2736	55	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL Abund	BLANK Abund	%Drift
1-bromo-2-nitrobenzene (1268)	B	6659056	**???**	**-100.00 ***
1-bromo-2-nitrobenzene (1268)	A	1543460	**???**	**-100.00 ***

ISTD (CCV gc06_021723029)	Ch	CCV Abund	BLANK Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	8293841	8004699	-3.49
1-bromo-2-nitrobenzene (PCB)	A	1858745	1678187	-9.71

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (ICAL gc06_021723011)	Ch	ICAL RT	BLANK RT	Drift
1-bromo-2-nitrobenzene (1268)	B	4.43	**???**	
1-bromo-2-nitrobenzene (1268)	A	4.19	**???**	

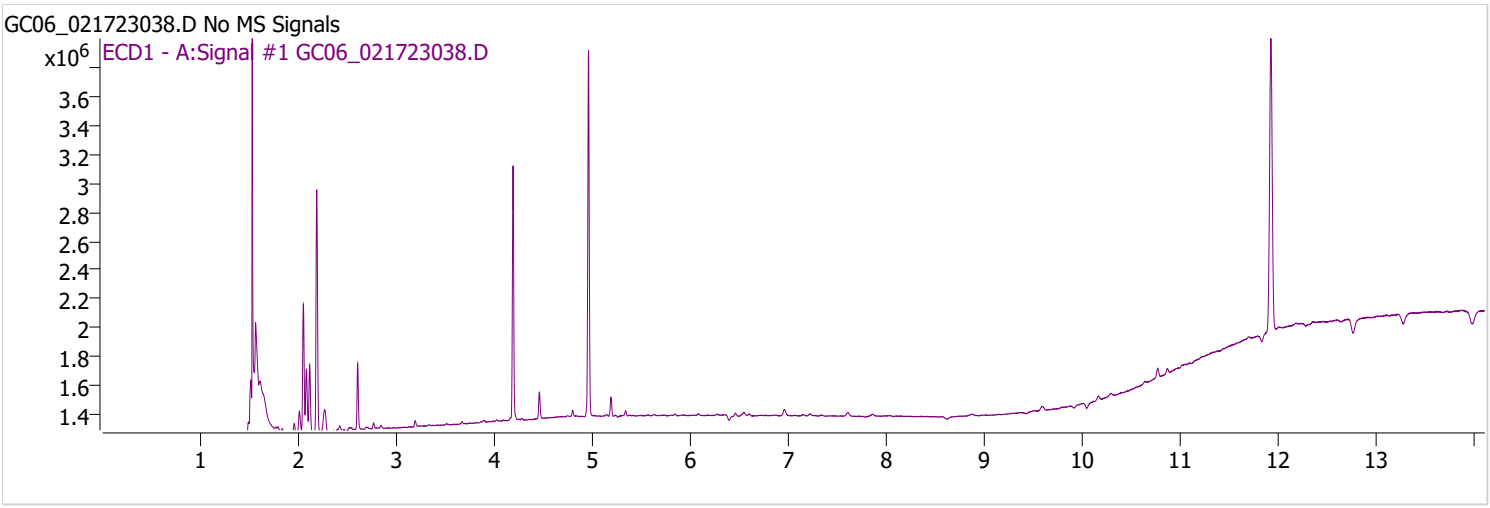
ISTD (CCV gc06_021723029)	Ch	CCV RT	BLANK RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.20	4.19	-0.01

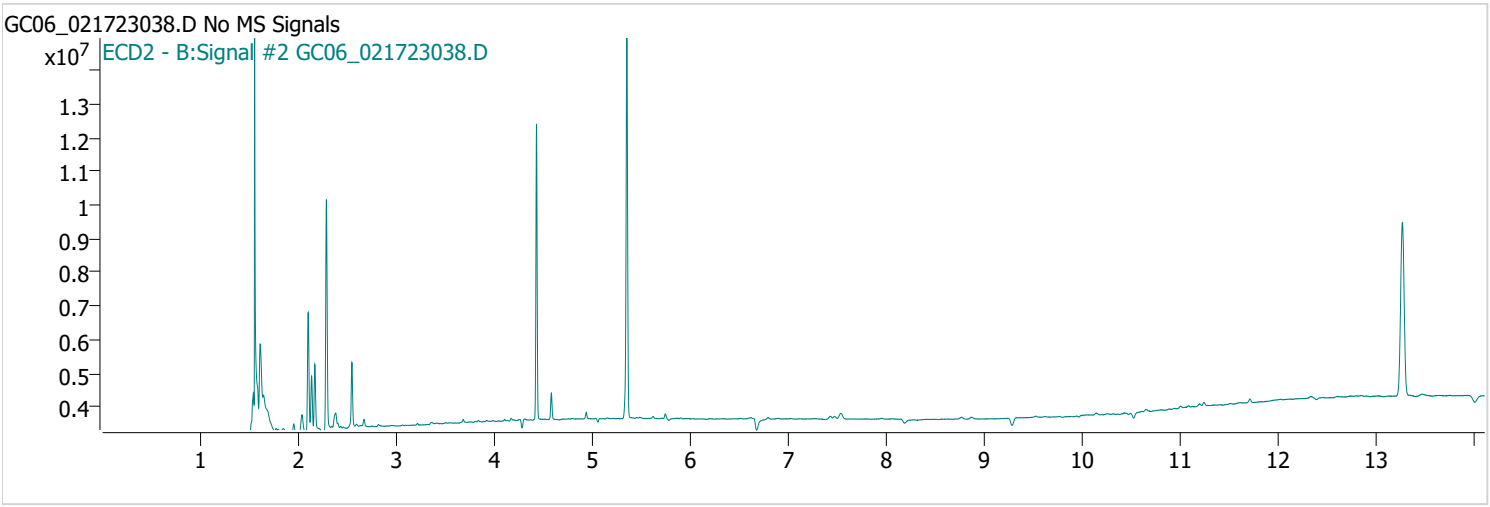
-=low bias c=CCV u=use

Analyst: TRN 02/20/23 **Reviewer:** LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723038.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 8:00:54 PM
Sample Name	QC1046509, 307899, 1	Instrument	SVOA-GC06
Vial	17	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
Ref Library			



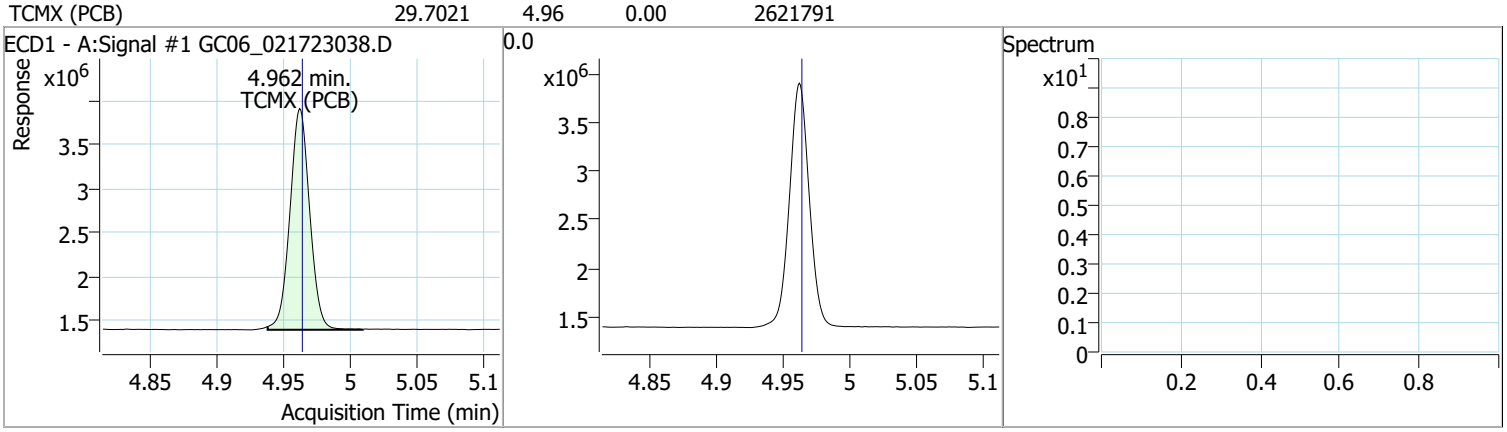


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.192	0.0	1678186.576	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.431	0.0	8004699.305	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	4.962	0.0	2621790.921	29.7021	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 148.51%			
S TCMX (PCB) #2	5.353	0.0	12409569.327	30.5295	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 152.65%		*	
S Decachlorobiphenyl (PCB)	11.928	0.0	4024384.446	31.4313	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 157.16%		*	
S Decachlorobiphenyl (PCB) #2	13.272	0.0	13220278.440	27.3571	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 136.79%			
Target Compounds							QValue

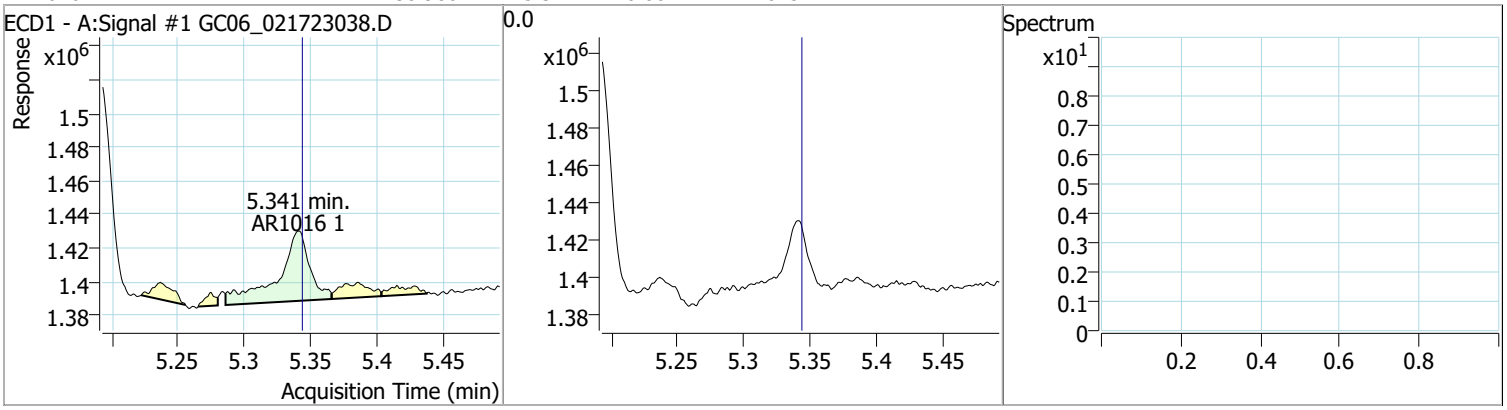
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.341	0.0	70454.455	38.9802	ng/ml	100
T AR1016 2	5.637	0.0	16003.052	3.2491	ng/ml	100
T AR1016 1 #2	5.907	0.0	279392.041	33.4075	ng/ml	100
T AR1016 3	6.111	0.0	1182.051	0.2253	ng/ml	100
T AR1016 4	6.271	0.0	12311.674	3.0446	ng/ml	100
T AR1016 2 #2	6.271	0.0	26250.736	1.3430	ng/ml	100
T AR1016 5	6.463	0.0	115357.286	58.5132	ng/ml	100
T AR1016 3 #2	6.798	0.0	2282169.892	95.4223	ng/ml	100
T AR1016 4 #2	6.985	0.0	3255.298	0.1909	ng/ml	100
T AR1016 5 #2	7.684	0.0	1753.840	0.1269	ng/ml	100
T AR1260 1	8.571	0.0	36388.350	5.3566	ng/ml	100
T AR1260 2	9.003	0.0	10668.144	1.1262	ng/ml	100
T AR1260 3	9.593	0.0	78313.852	7.3268	ng/ml	100
T AR1260 1 #2	9.880	0.0	35153.705	1.3916	ng/ml	100
T AR1260 4	10.012	0.0	160609.171	28.4896	ng/ml	100
T AR1260 2 #2	10.148	0.0	101058.047	3.3899	ng/ml	100
T AR1260 3 #2	10.653	0.0	934630.162	24.0479	ng/ml	100
T AR1260 5	10.773	0.0	97862.036	15.2477	ng/ml	100
T AR1260 4 #2	11.009	0.0	112008.560	5.4931	ng/ml	100
T AR1260 5 #2	11.665	0.0	19271.785	0.5408	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

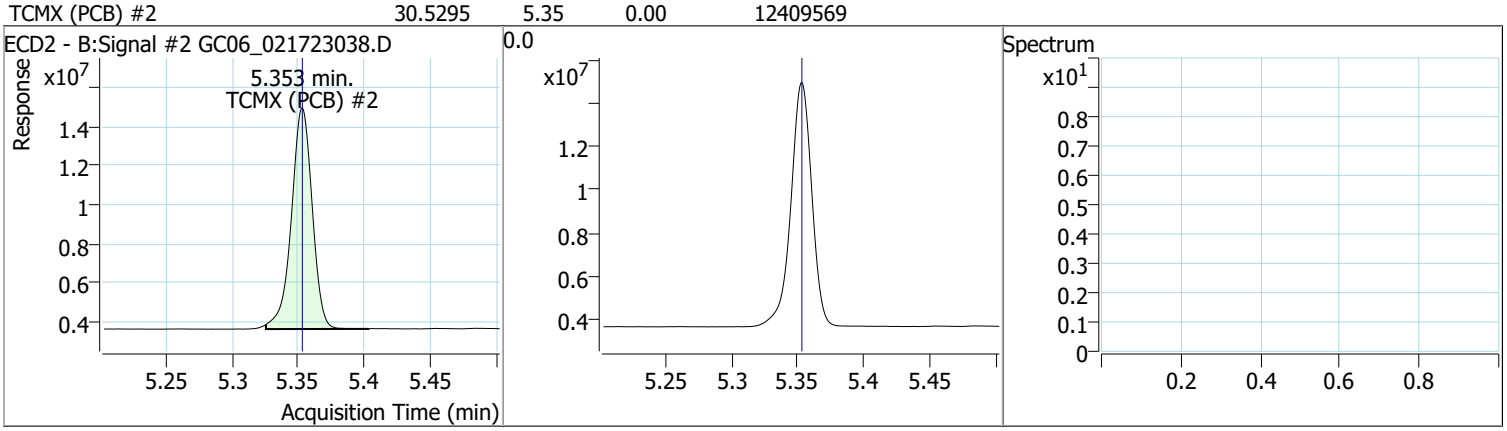
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	29.7021	4.96	0.00	2621791				



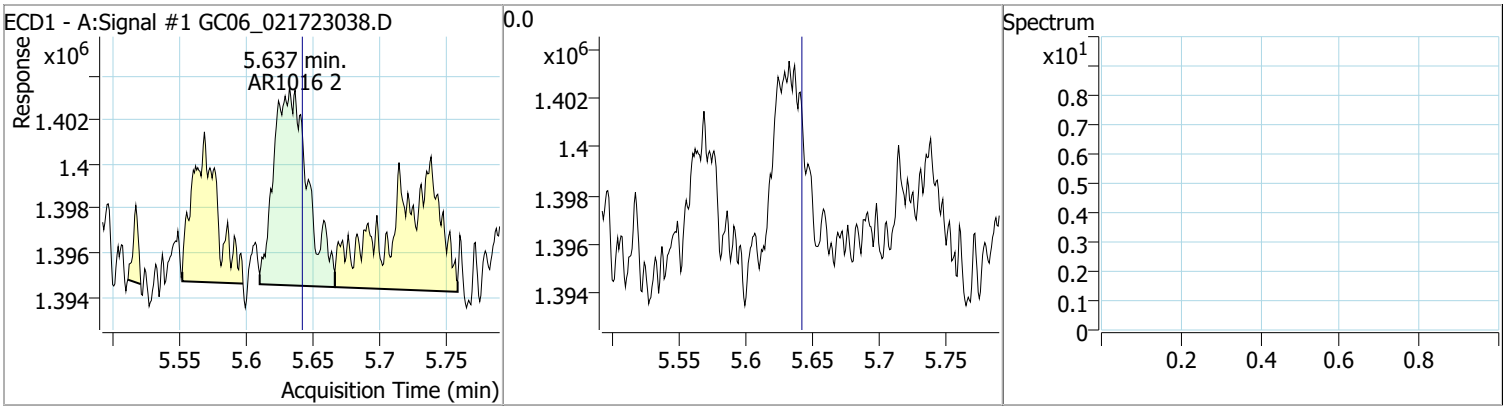
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	38.9802	5.34	0.00	70454				



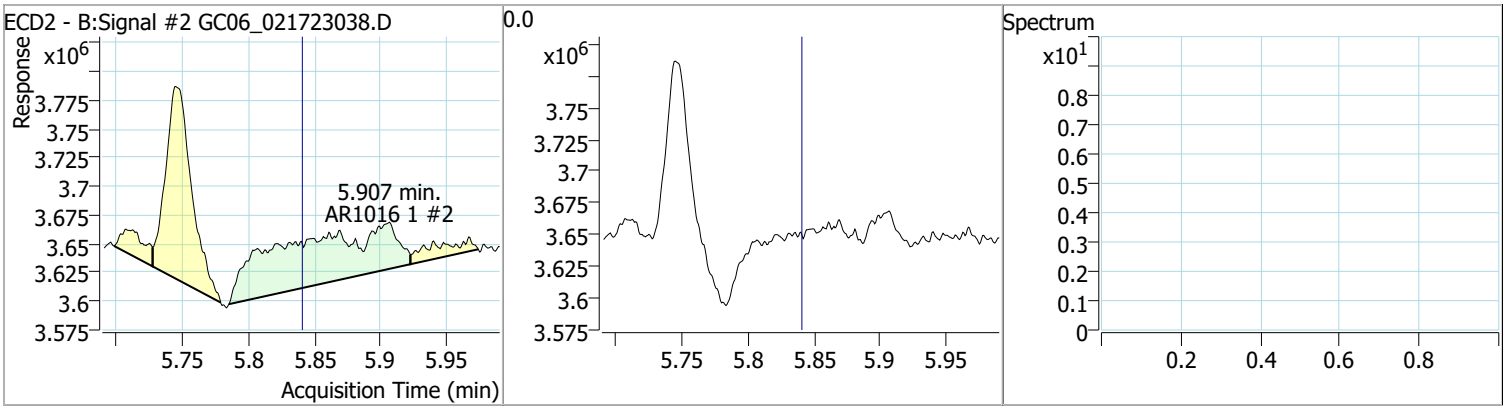
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	30.5295	5.35	0.00	12409569				



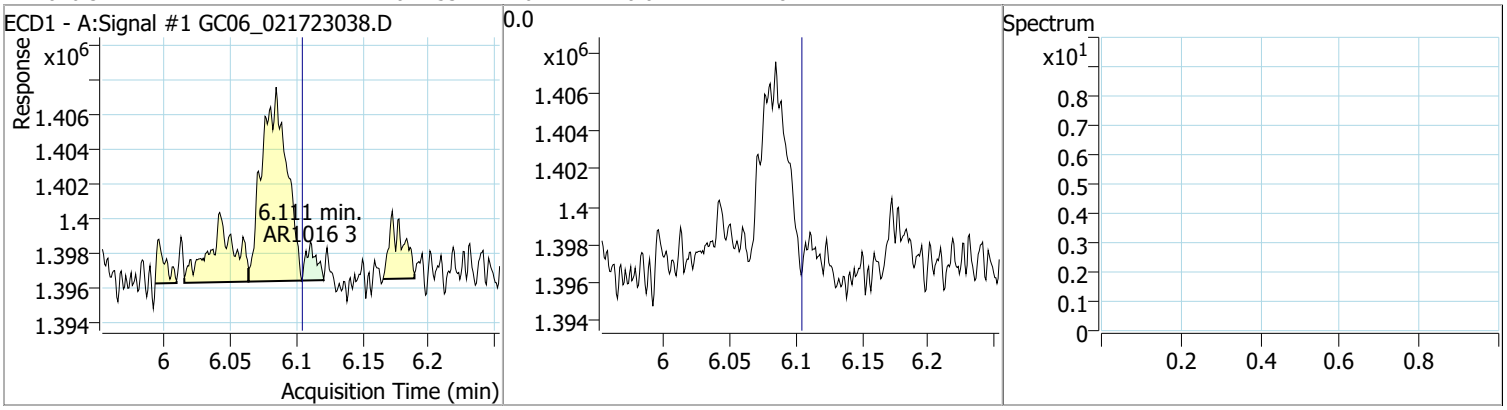
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	3.2491	5.64	0.00	16003				



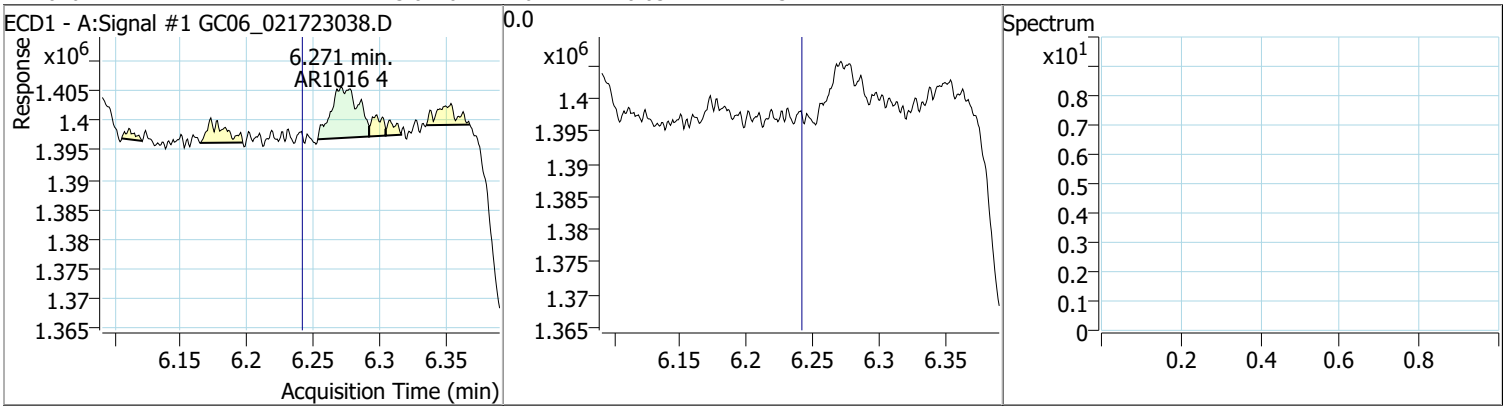
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	33.4075	5.91	0.07	279392				



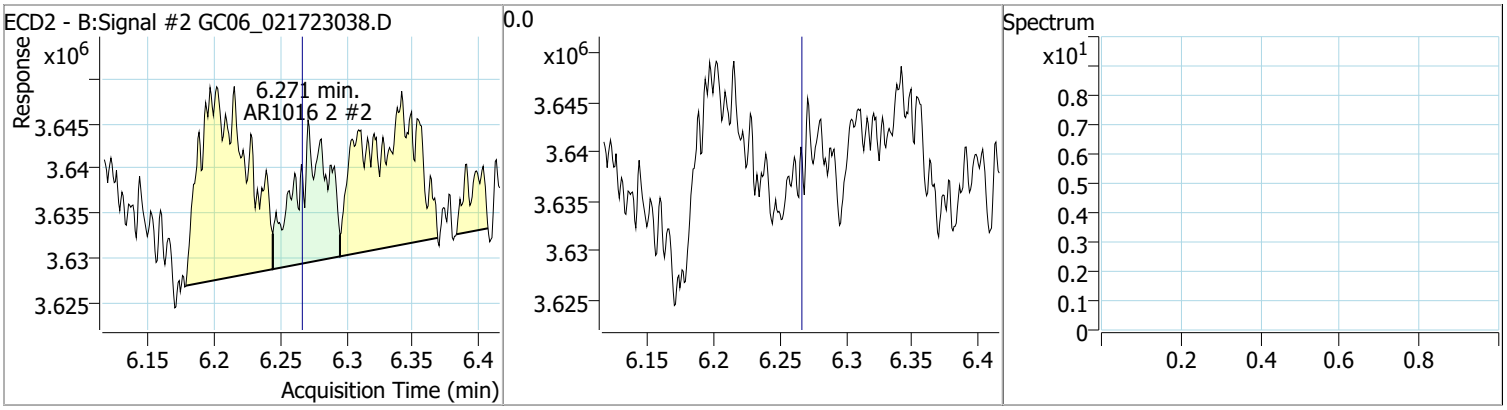
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	0.2253	6.11	0.01	1182				



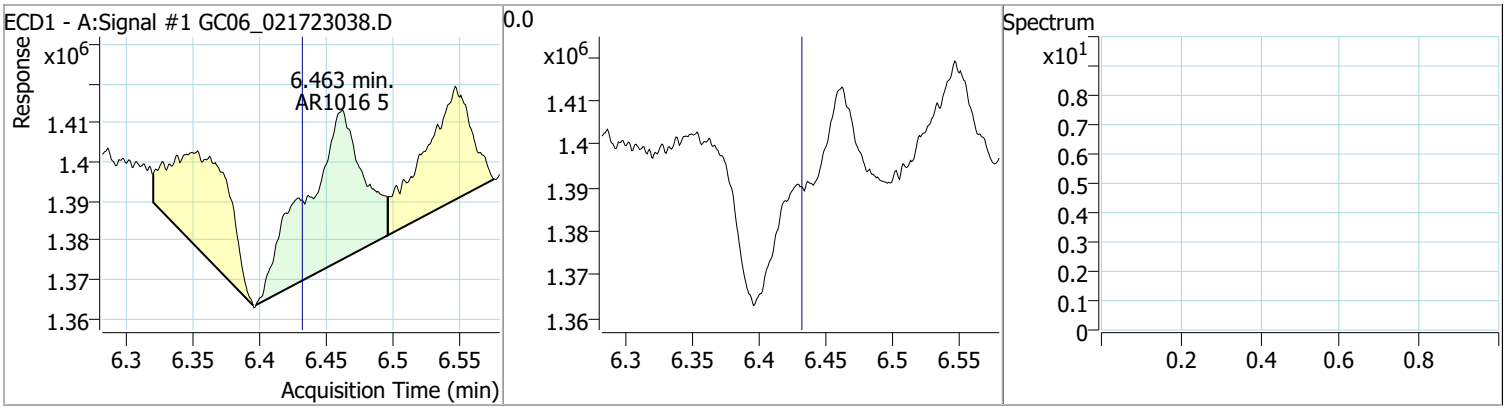
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	3.0446	6.27	0.03	12312				



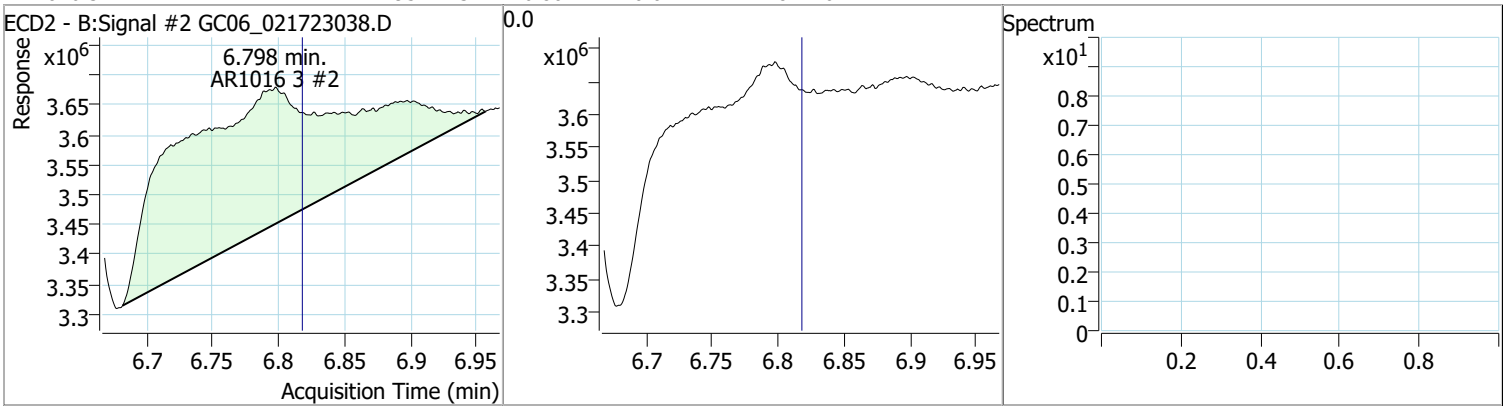
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	1.3430	6.27	0.00	26251				



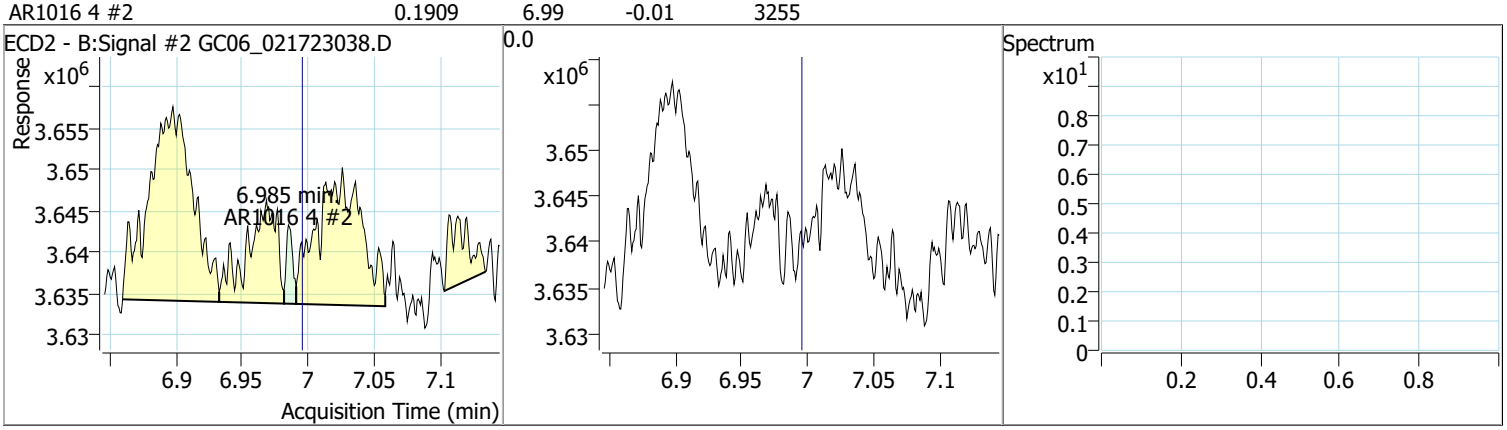
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	58.5132	6.46	0.03	115357				



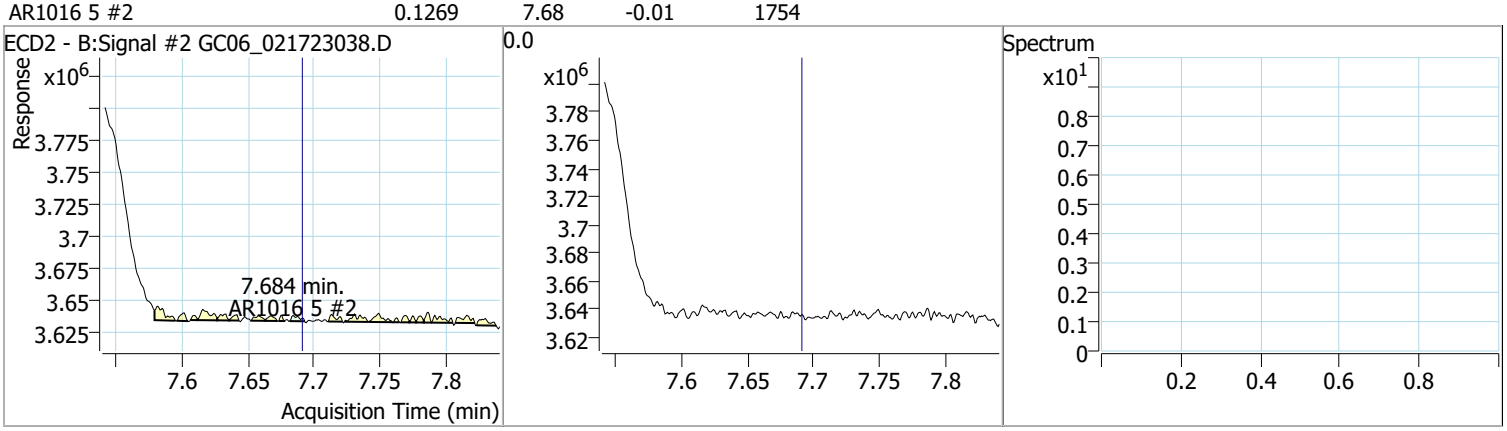
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	95.4223	6.80	-0.02	2282170				



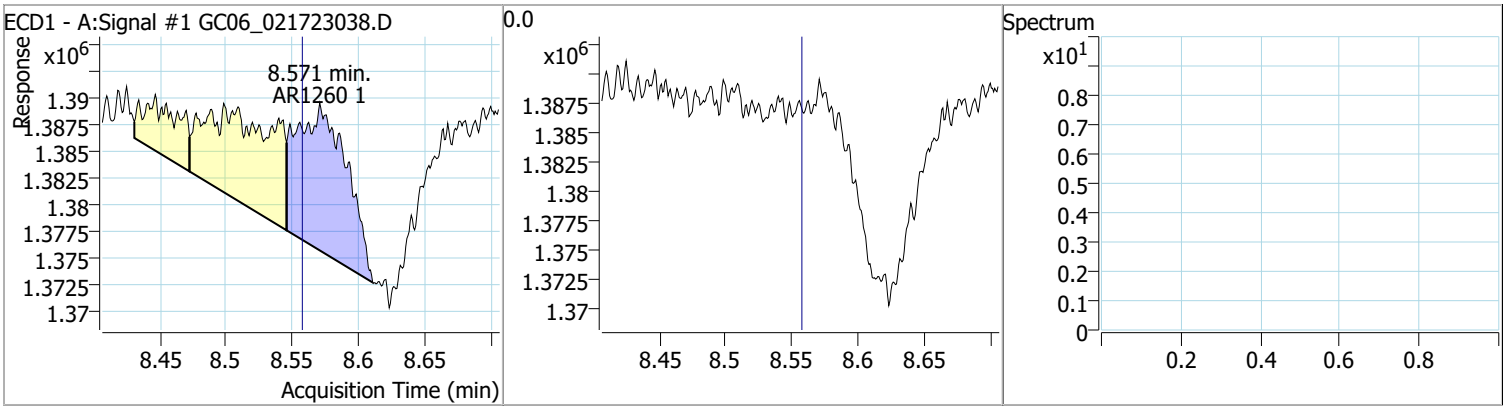
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	0.1909	6.99	-0.01	3255				



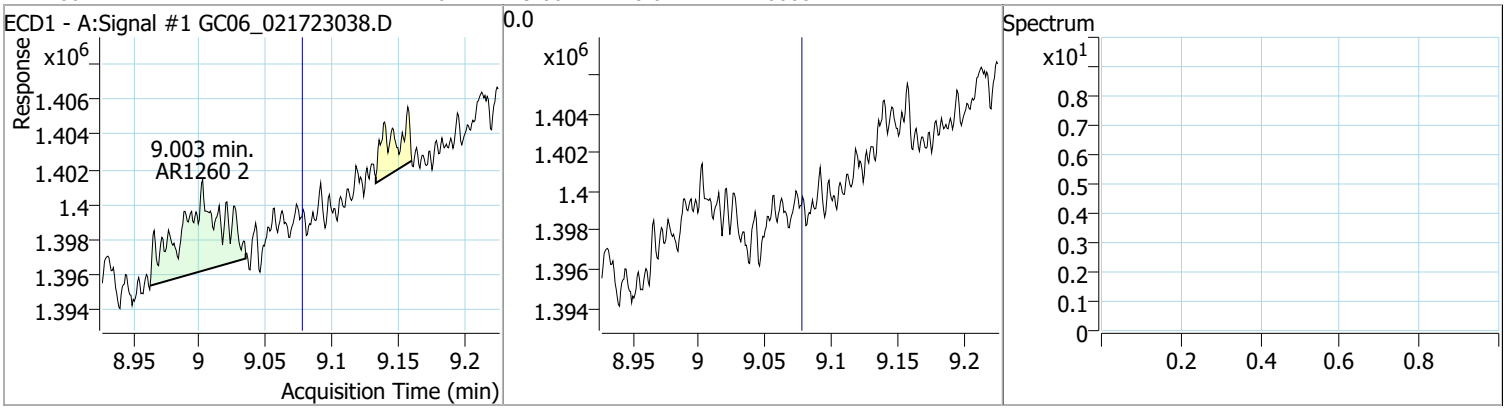
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	0.1269	7.68	-0.01	1754				



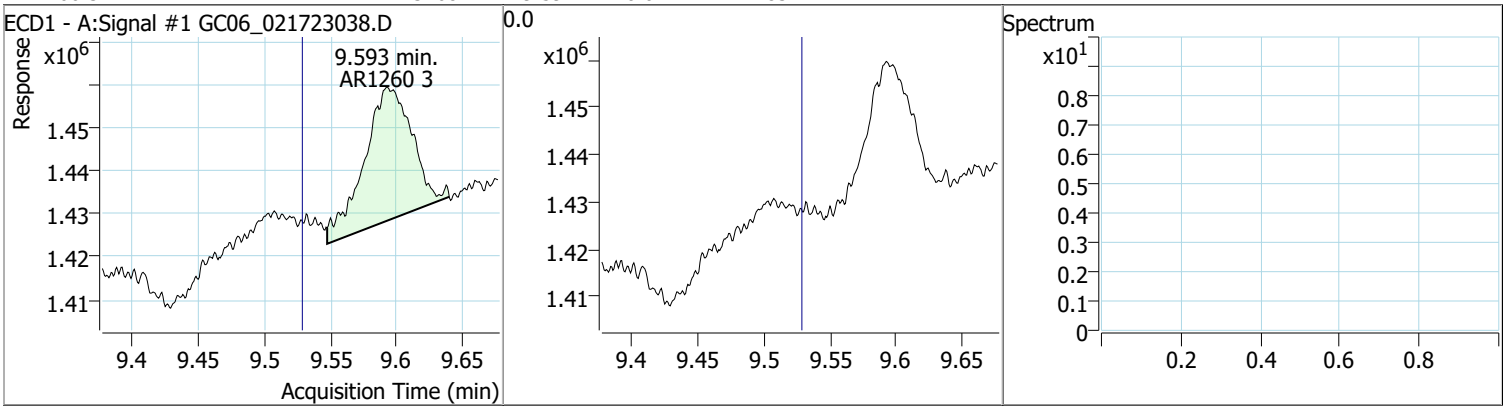
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	5.3566	8.57	0.02	36388				



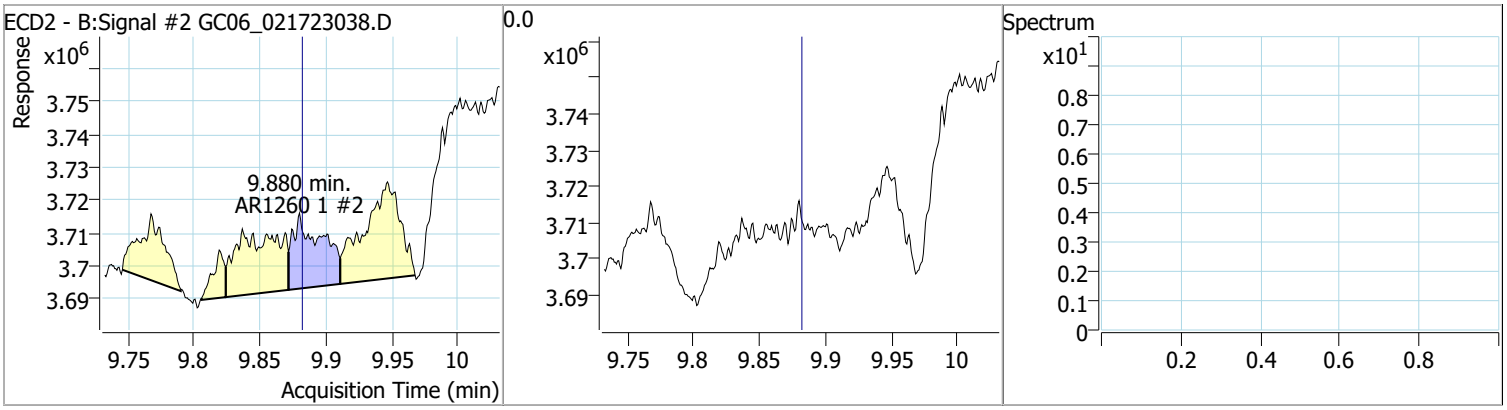
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1.1262	9.00	-0.07	10668				



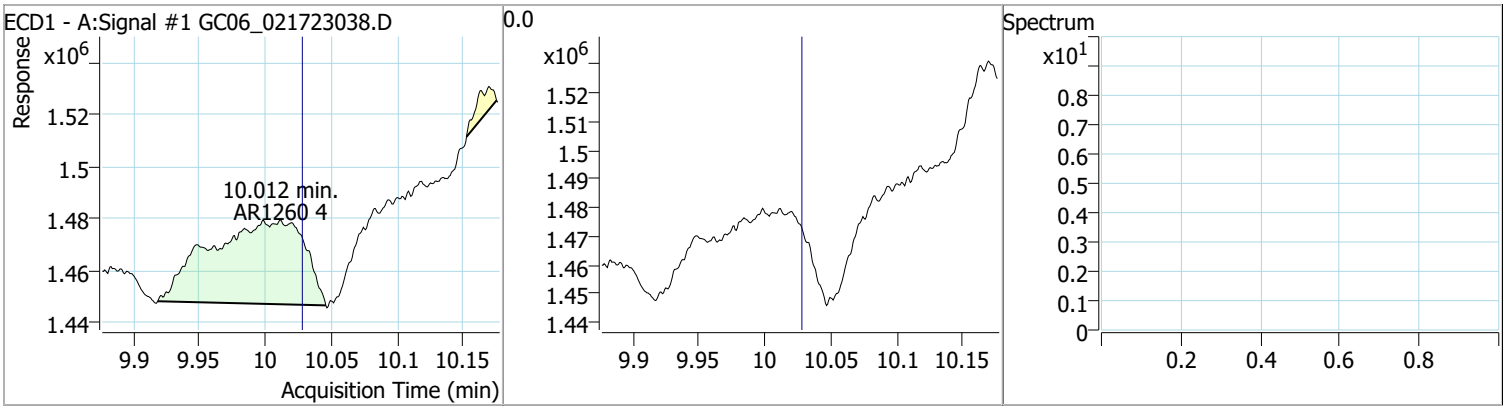
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	7.3268	9.59	0.07	78314				



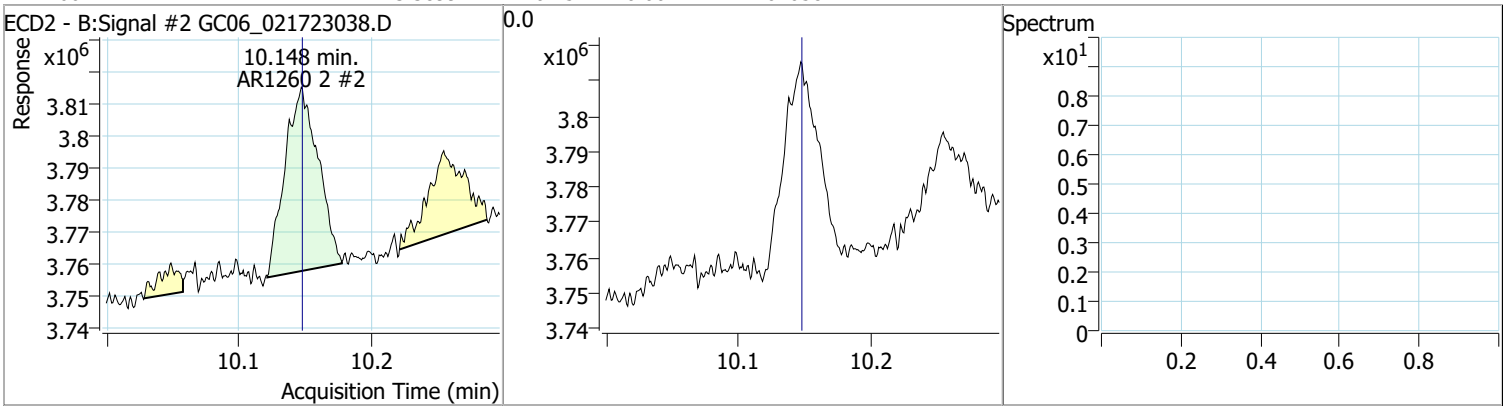
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	1.3916	9.88	0.00	35154				



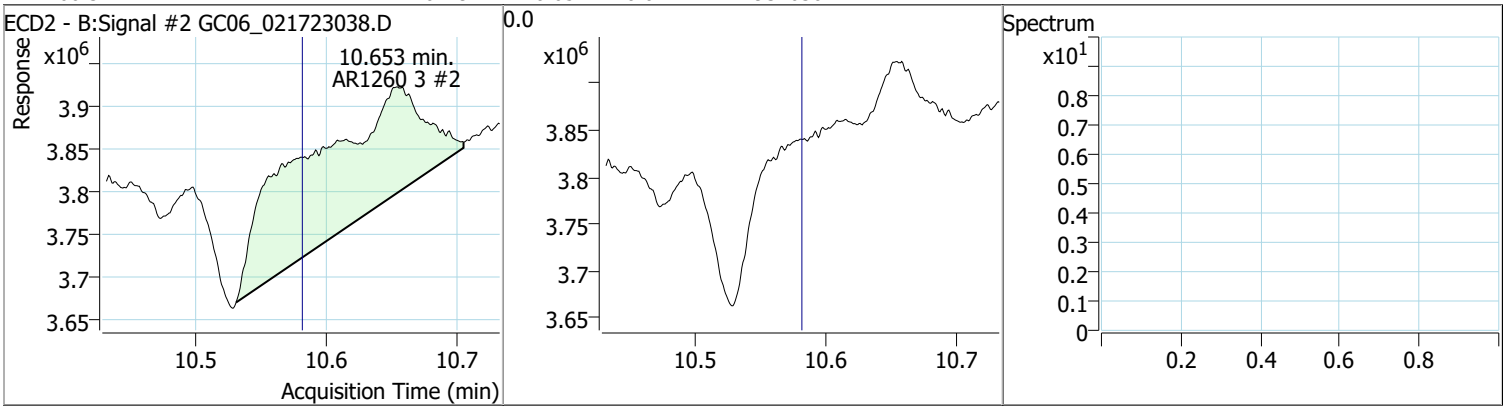
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	28.4896	10.01	-0.01	160609				



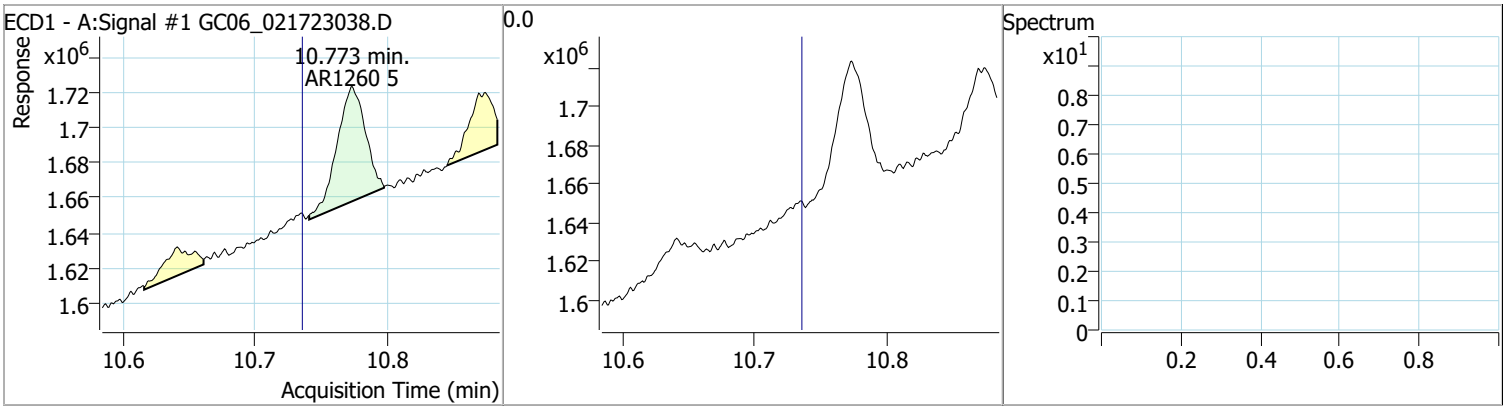
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	3.3899	10.15	0.00	101058				



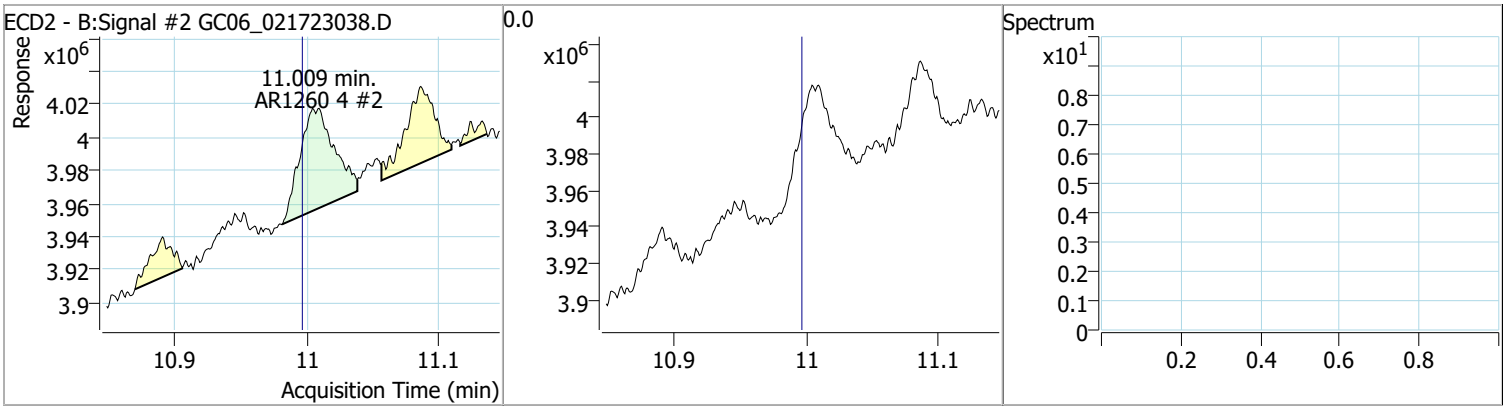
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	24.0479	10.65	0.07	934630				



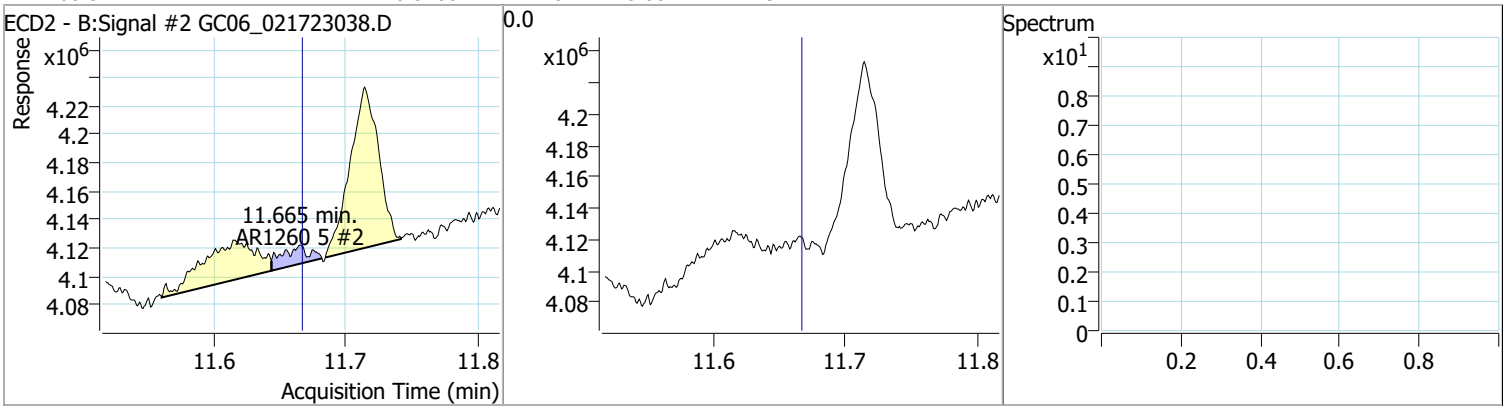
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	15.2477	10.77	0.04	97862				



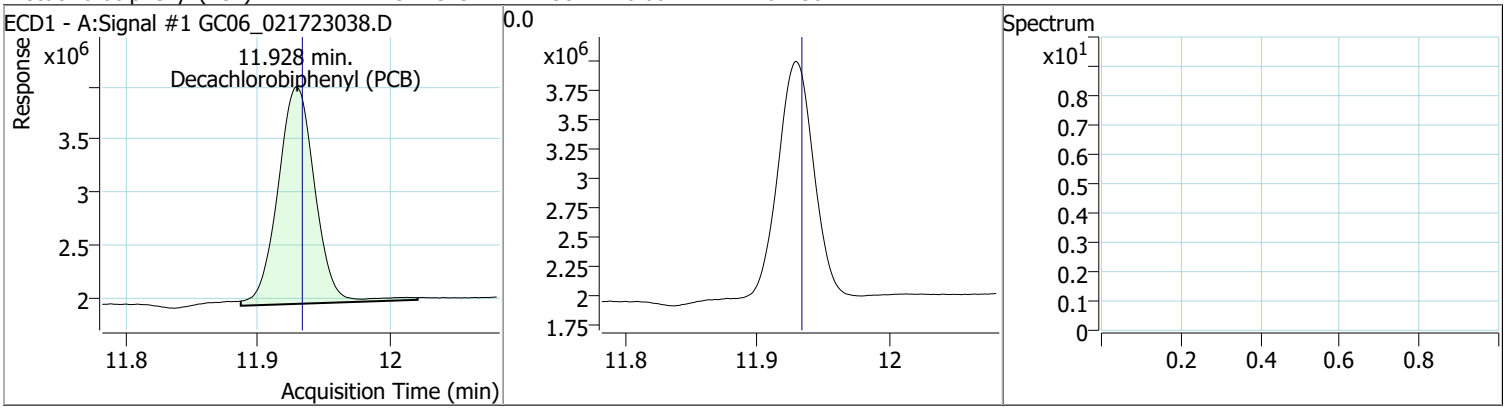
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	5.4931	11.01	0.01	112009				



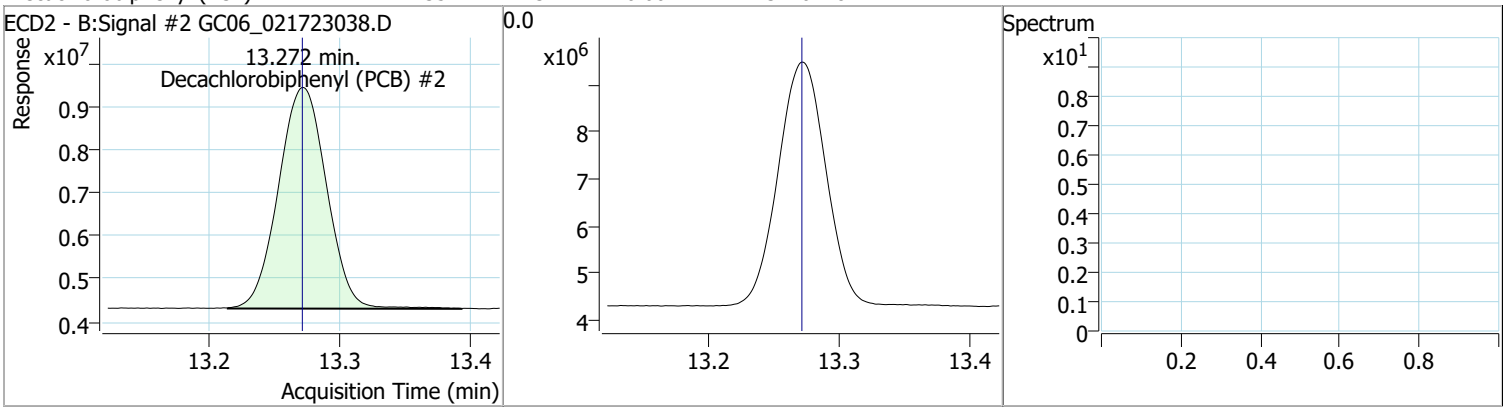
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	0.5408	11.67	0.00	19272				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	31.4313	11.93	0.00	4024384				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	27.3571	13.27	0.00	13220278				



ENTHALPY SPIKE USER REPORT FOR 479661 PCBS Wipe

EPA 8082

Type:	BS	Type:	BSD
Inst:	SVOA-GC06	Inst:	SVOA-GC06
Seqnum:	453069687039.2	Seqnum:	453069687040.2
File:	gc06_021723039	File:	gc06_021723040
IDF:	1.0	IDF:	1.0
Lab ID:	QC1046510	Lab ID:	QC1046511
Matrix:	Wipe	Matrix:	Wipe
Batch:	307899	Batch:	307899
Time:	17-FEB-2023 20:19	Time:	17-FEB-2023 20:37
Cal:	453057263001	Cal:	453057263001
Units:	ug/dm2		

- BS: 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF
- BSD: 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Aroclor-1016	5.000	308.9	3.089	B	62	340.5	3.405	B	68	60-140	10	20	u
Aroclor-1016 Peak # 1		334.3	3.343	B		366.7	3.667	B					
Aroclor-1016 Peak # 2		295.4	2.954	B		324.7	3.247	B					
Aroclor-1016 Peak # 3		298.3	2.983	B		335.2	3.352	B					
Aroclor-1016 Peak # 4		303.2	3.032	B		330.7	3.307	B					
Aroclor-1016 Peak # 5		313.2	3.132	B		344.9	3.449	B					
Aroclor-1260	5.000	338.9	3.389	A	68	355.2	3.552	B	71	60-140	5	20	u
Aroclor-1260 Peak # 1		322.4	3.224	A		364.7	3.647	B					
Aroclor-1260 Peak # 2		368.7	3.687	A		367.6	3.676	B					
Aroclor-1260 Peak # 3		294.9	2.949	A		344.8	3.448	B					
Aroclor-1260 Peak # 4		358.6	3.586	A		379.4	3.794	B					
Aroclor-1260 Peak # 5		349.8	3.498	A		319.6	3.196	B					
Surrogates													
TCMX (PCB)	0.5000	32.88	0.3288	B	66	36.25	0.3625	B	72	19-121			c- u
Decachlorobiphenyl (PCB)	0.5000	30.59	0.3059	B	61	31.73	0.3173	B	63	19-121			c- u

ISTD (CCV gc06_021723029)	Ch	CCV Abund	BS Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	8293841	7776939	-6.23
1-bromo-2-nitrobenzene (PCB)	A	1858745	1640717	-11.73

ISTD (CCV gc06_021723029)	Ch	CCV RT	BS RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.20	4.19	-0.01

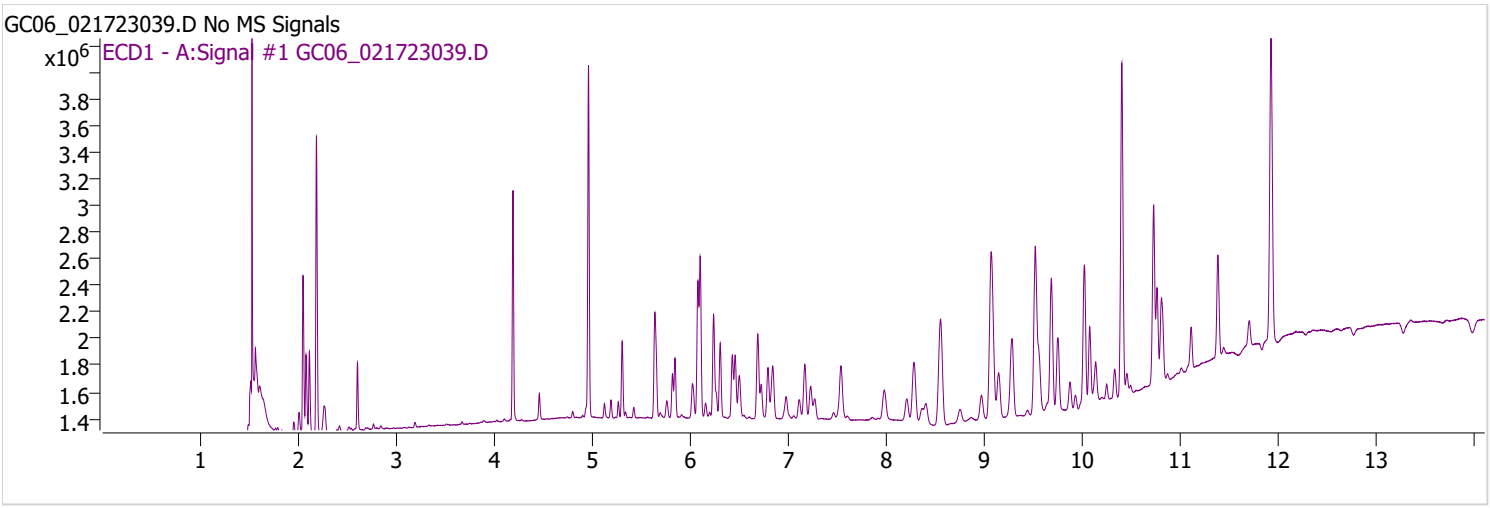
ISTD (CCV gc06_021723029)	Ch	CCV Abund	BSD Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	8293841	7529594	-9.21
1-bromo-2-nitrobenzene (PCB)	A	1858745	1646630	-11.41

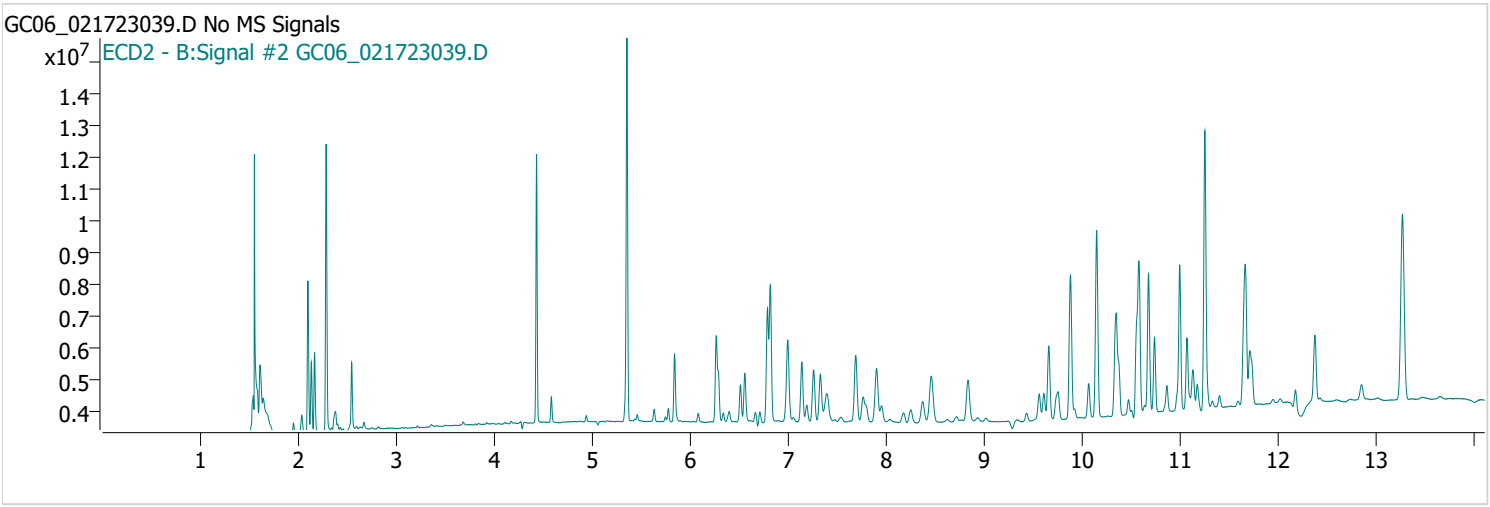
ISTD (CCV gc06_021723029)	Ch	CCV RT	BSD RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.43	4.43	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.20	4.19	-0.01

Analyst: TRN 02/20/23 **Reviewer:** LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723039.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 8:19:17 PM
Sample Name	QC1046510, 307899, 1	Instrument	SVOA-GC06
Vial	18	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
Ref Library			



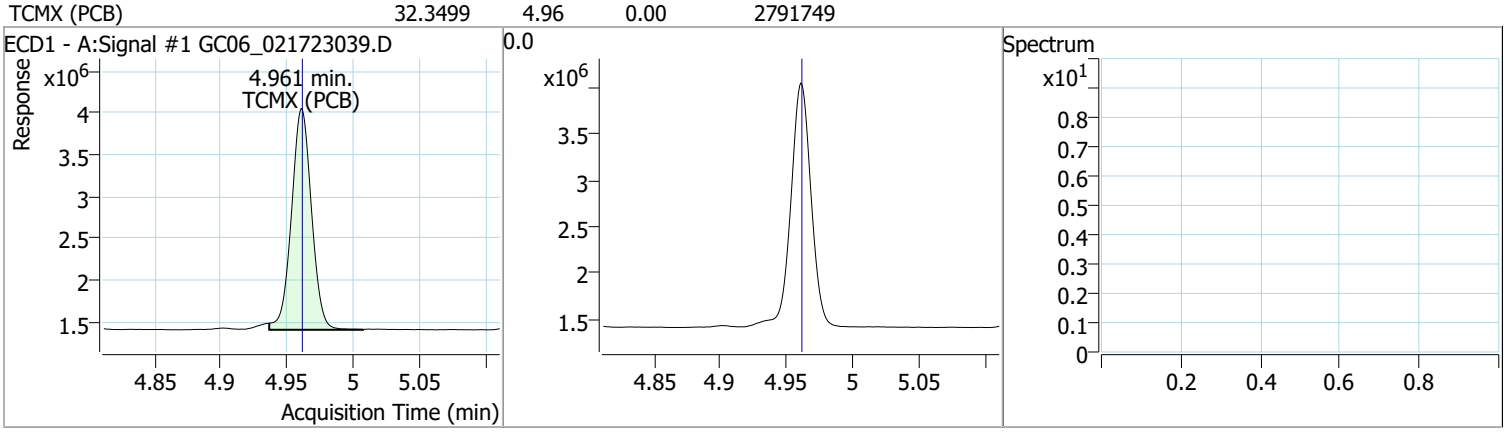


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.190	0.0	1640716.968	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.431	0.0	7776938.591	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	4.961	0.0	2791749.167	32.3499	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 161.75%		*	
S TCMX (PCB) #2	5.353	0.0	12984053.737	32.8783	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 164.39%		*	
S Decachlorobiphenyl (PCB)	11.928	0.0	4397518.155	35.1299	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 175.65%		*	
S Decachlorobiphenyl (PCB) #2	13.271	0.0	14361628.621	30.5893	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 152.95%		*	
Target Compounds							QValue

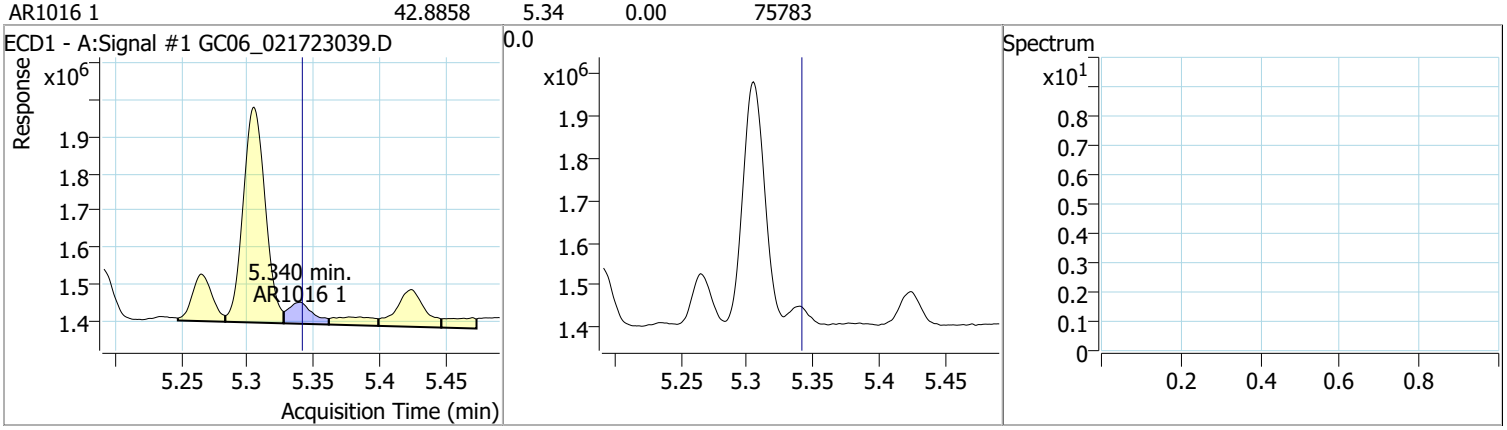
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.340	0.0	75782.941	42.8858	ng/ml	100
T AR1016 2	5.639	0.0	1353499.492	281.0780	ng/ml	100
T AR1016 1 #2	5.840	0.0	2716328.449	334.3096	ng/ml	100
T AR1016 3	6.101	0.0	1615233.571	314.9517	ng/ml	100
T AR1016 4	6.238	0.0	1297956.654	328.3107	ng/ml	100
T AR1016 2 #2	6.266	0.0	5609311.156	295.3778	ng/ml	100
T AR1016 5	6.429	0.0	691152.308	358.5823	ng/ml	100
T AR1016 3 #2	6.817	0.0	6931039.798	298.2886	ng/ml	100
T AR1016 4 #2	6.995	0.0	5023978.481	303.2169	ng/ml	100
T AR1016 5 #2	7.690	0.0	4205464.232	313.2313	ng/ml	100
T AR1260 1	8.555	0.0	2141181.754	322.3952	ng/ml	100
T AR1260 2	9.073	0.0	3414406.532	368.6770	ng/ml	100
T AR1260 3	9.522	0.0	3081274.106	294.8594	ng/ml	100
T AR1260 1 #2	9.881	0.0	8339047.871	339.7693	ng/ml	100
T AR1260 4	10.023	0.0	1976530.113	358.6125	ng/ml	100
T AR1260 2 #2	10.149	0.0	9981871.987	344.6375	ng/ml	100
T AR1260 3 #2	10.579	0.0	12188263.735	322.7861	ng/ml	100
T AR1260 5	10.730	0.0	2195063.180	349.8184	ng/ml	100
T AR1260 4 #2	10.997	0.0	7283117.363	367.6362	ng/ml	100
T AR1260 5 #2	11.665	0.0	10448316.473	301.7760	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

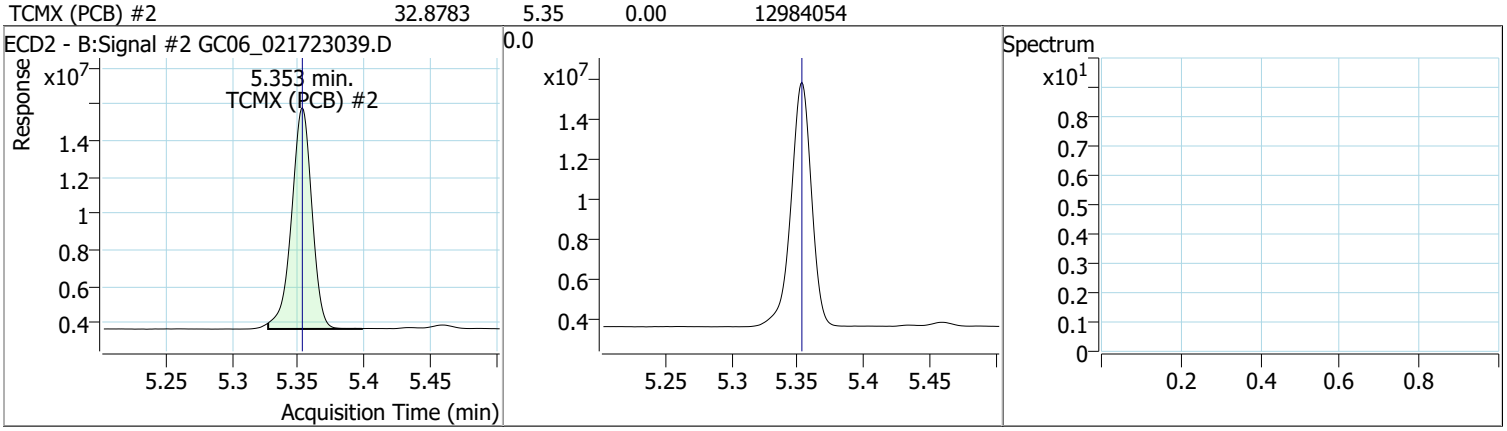
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	32.3499	4.96	0.00	2791749				



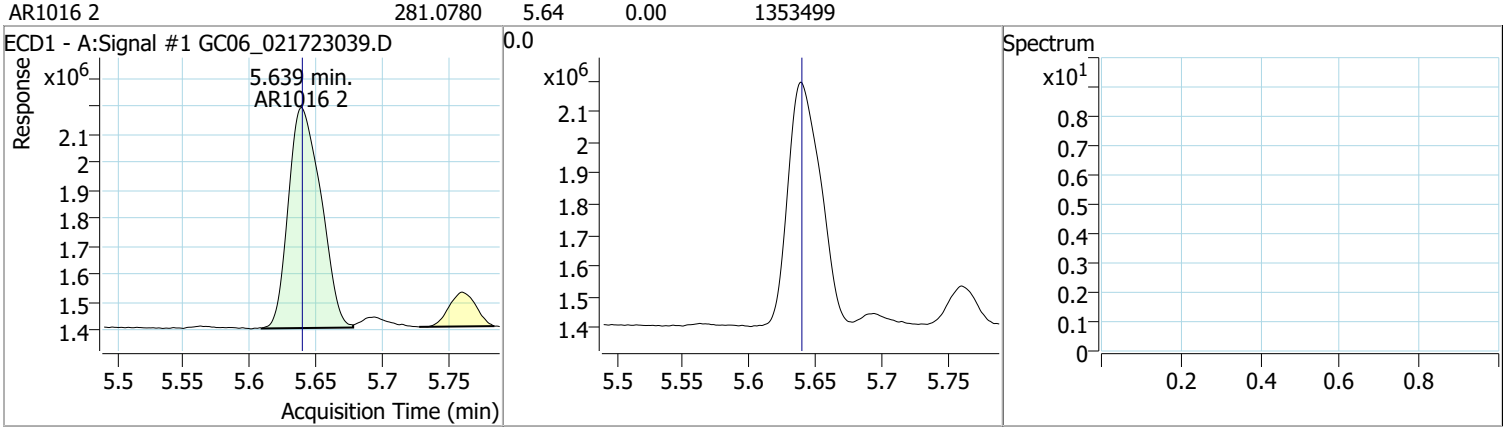
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	42.8858	5.34	0.00	75783				



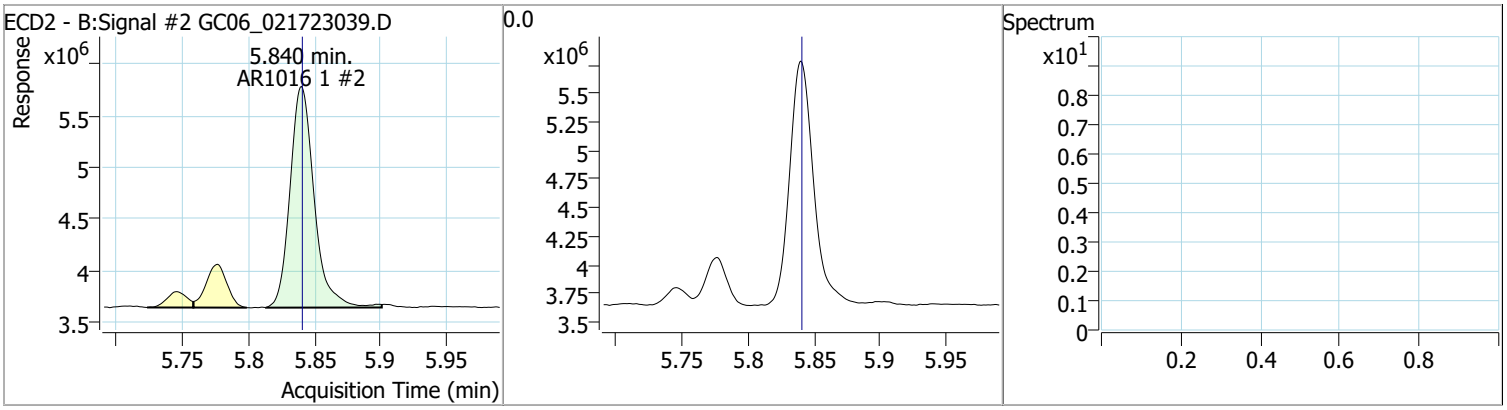
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	32.8783	5.35	0.00	12984054				



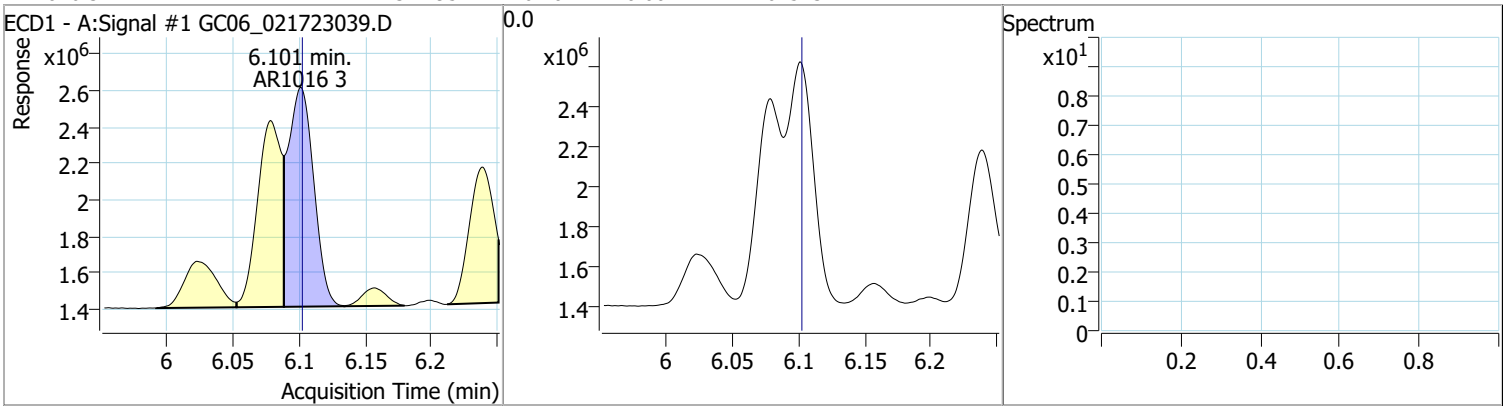
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	281.0780	5.64	0.00	1353499				



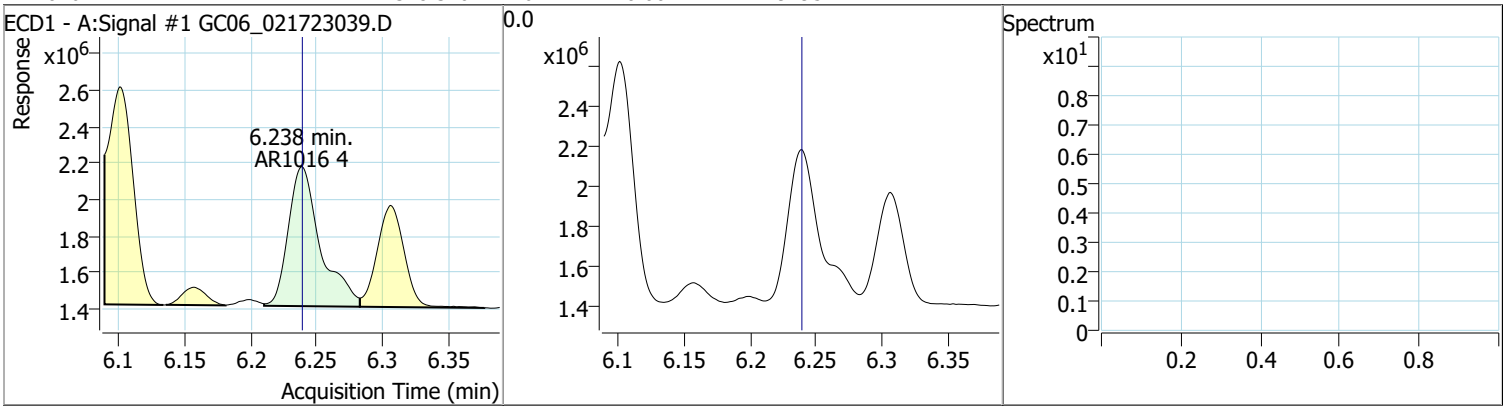
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	334.3096	5.84	0.00	2716328				



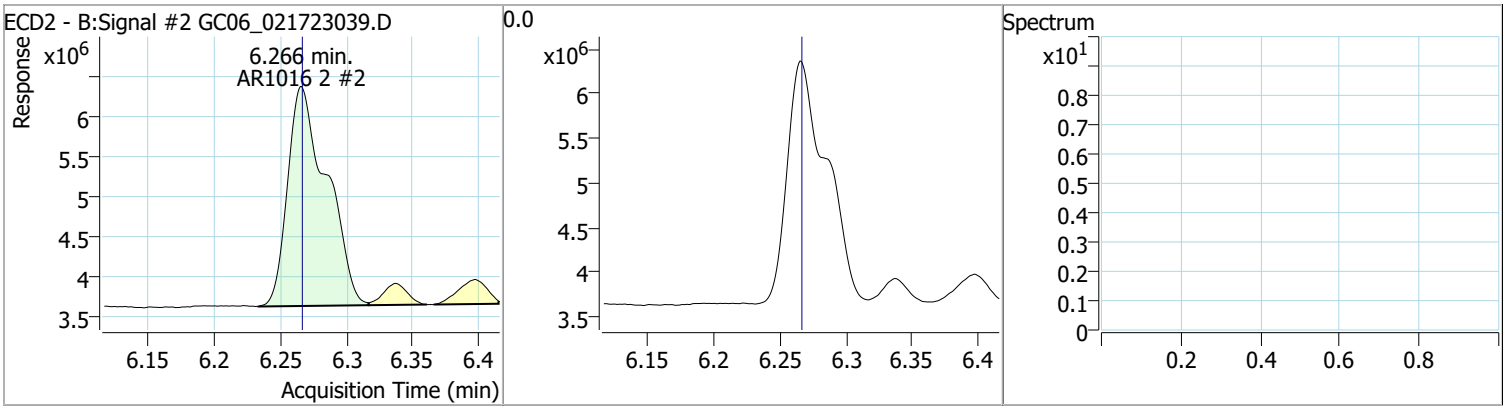
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	314.9517	6.10	0.00	1615234				



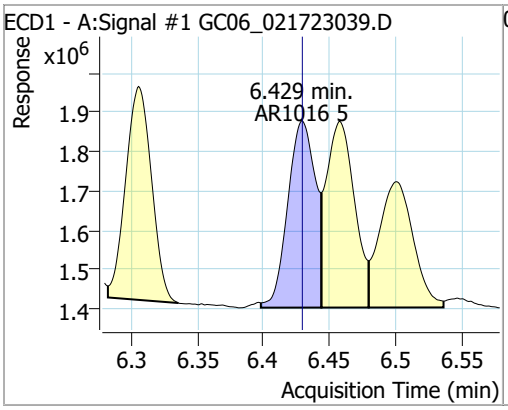
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	328.3107	6.24	0.00	1297957				

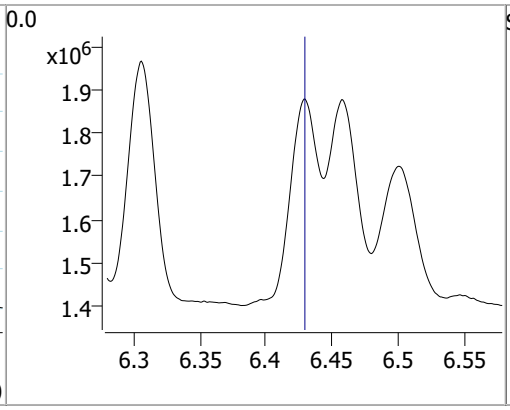


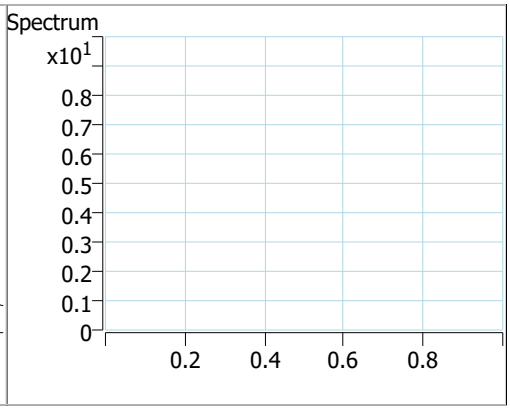
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	295.3778	6.27	0.00	5609311				



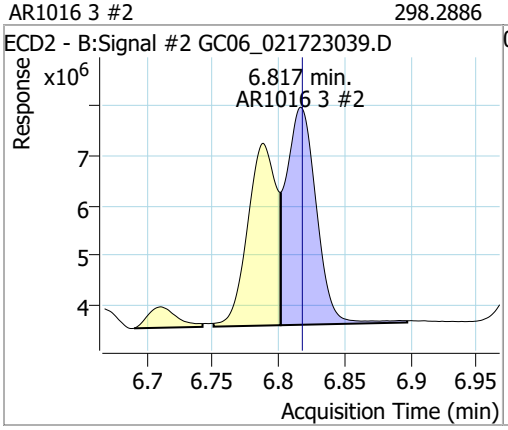
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	358.5823	6.43	0.00	691152				

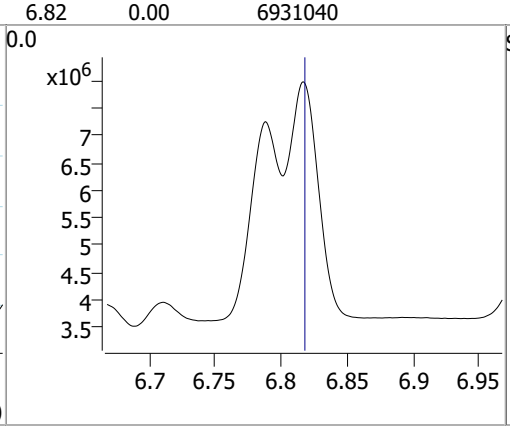


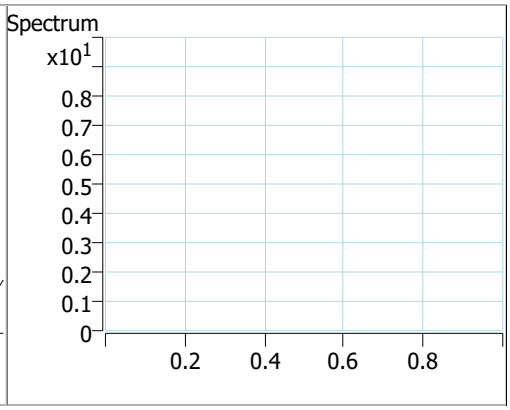




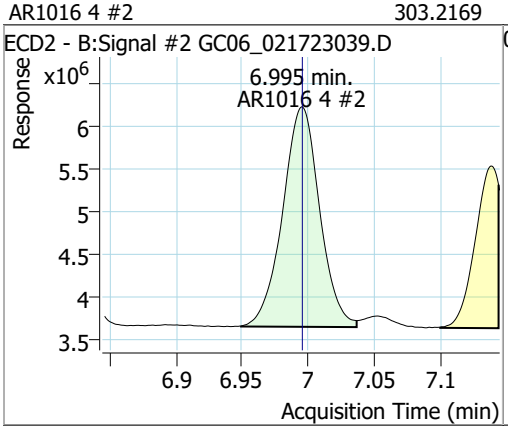
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	298.2886	6.82	0.00	6931040				

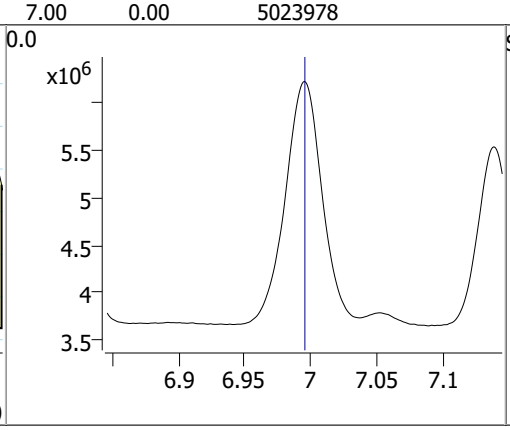


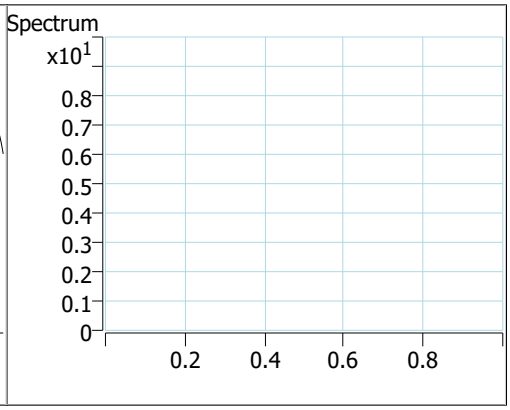




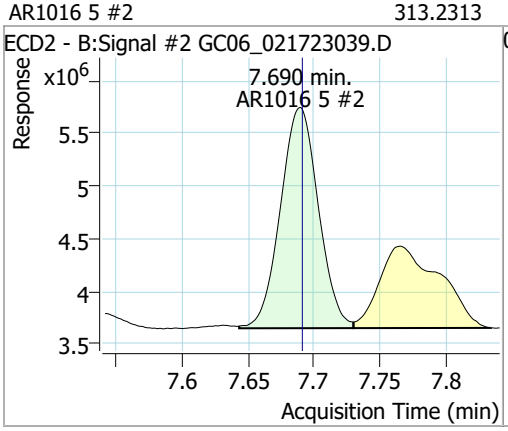
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	303.2169	7.00	0.00	5023978				

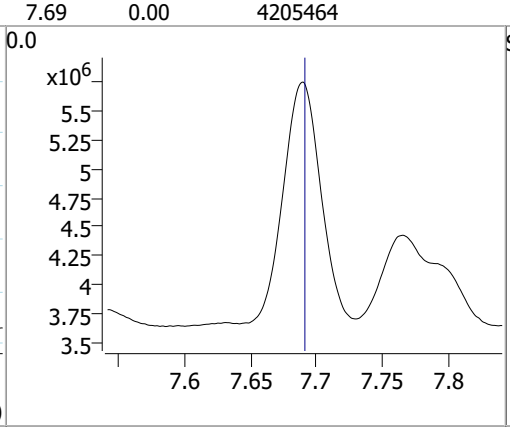


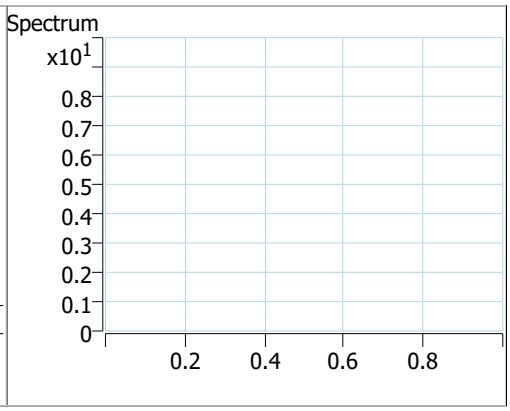




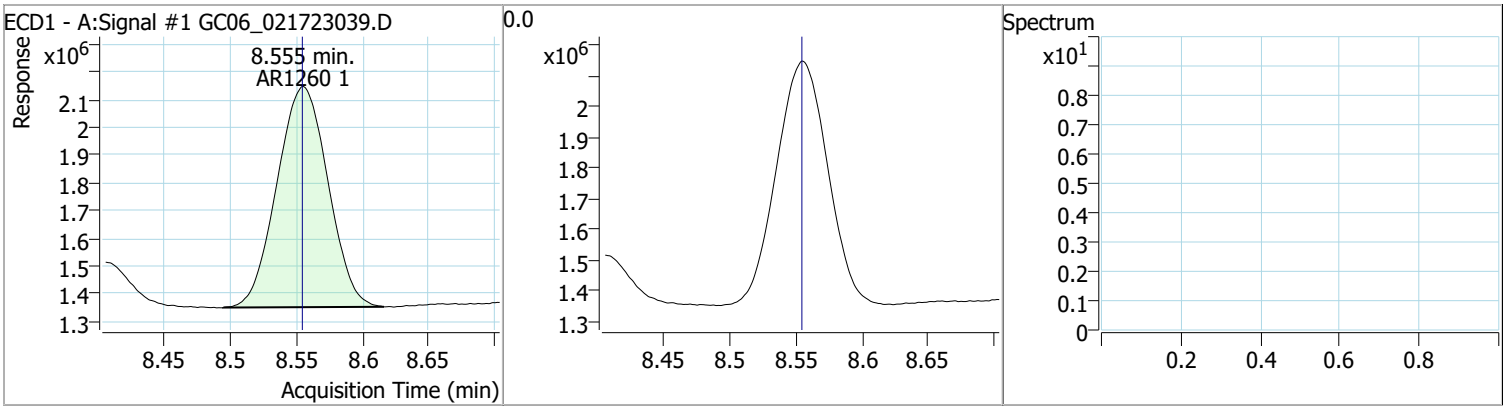
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	313.2313	7.69	0.00	4205464				



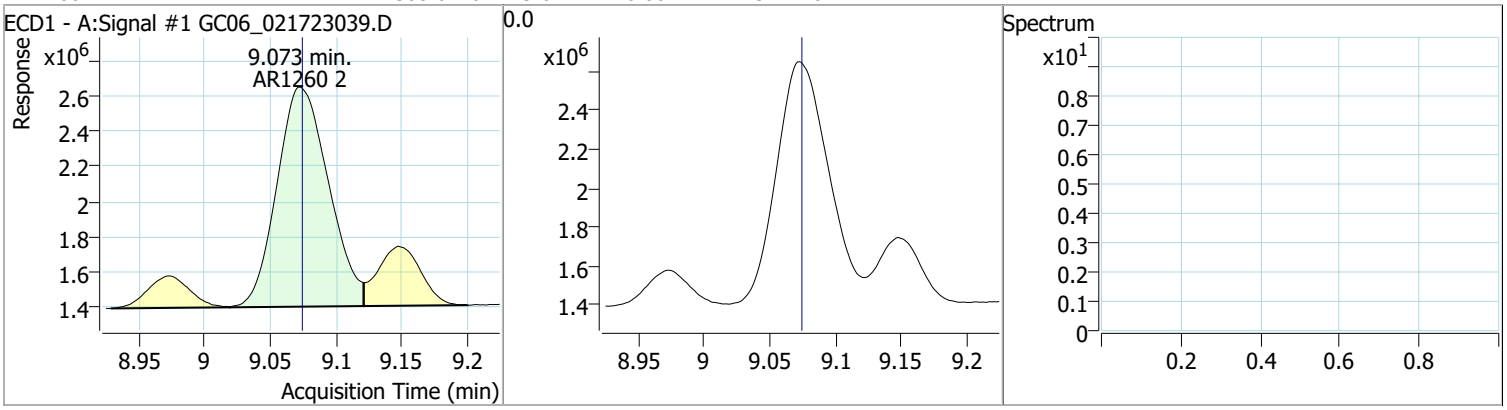




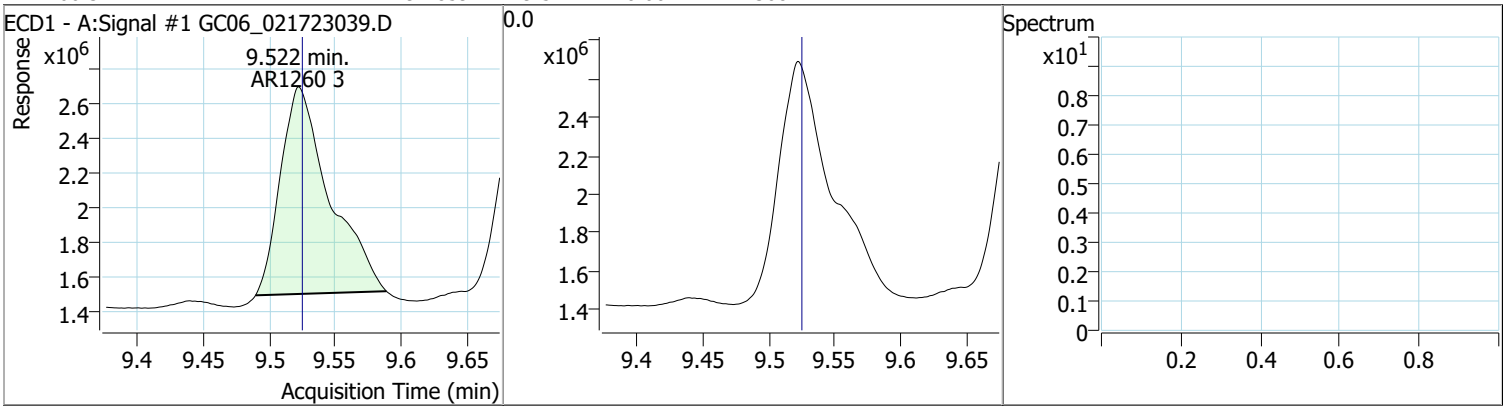
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	322.3952	8.56	0.00	2141182				



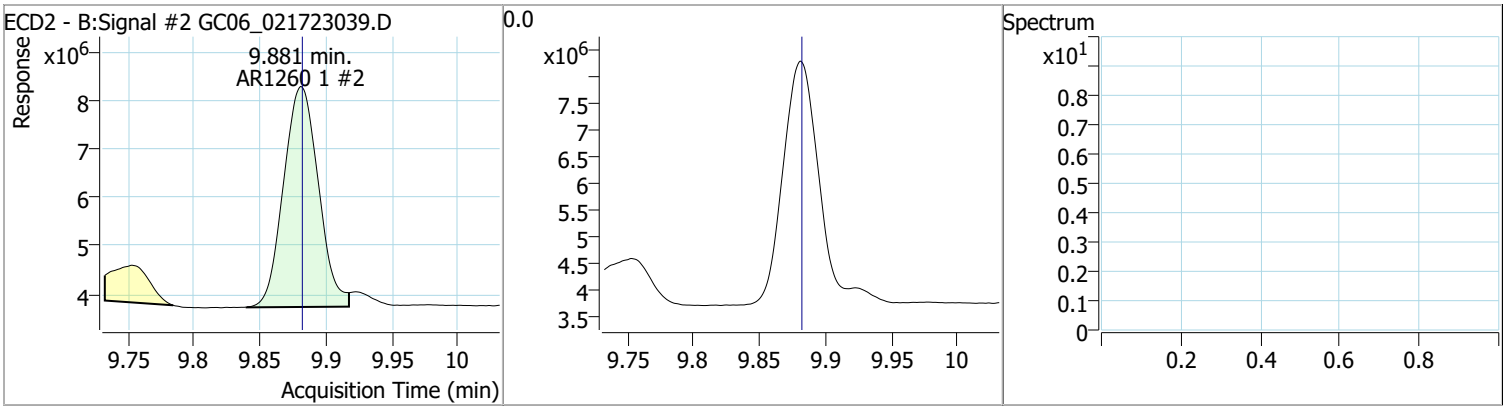
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	368.6770	9.07	0.00	3414407				



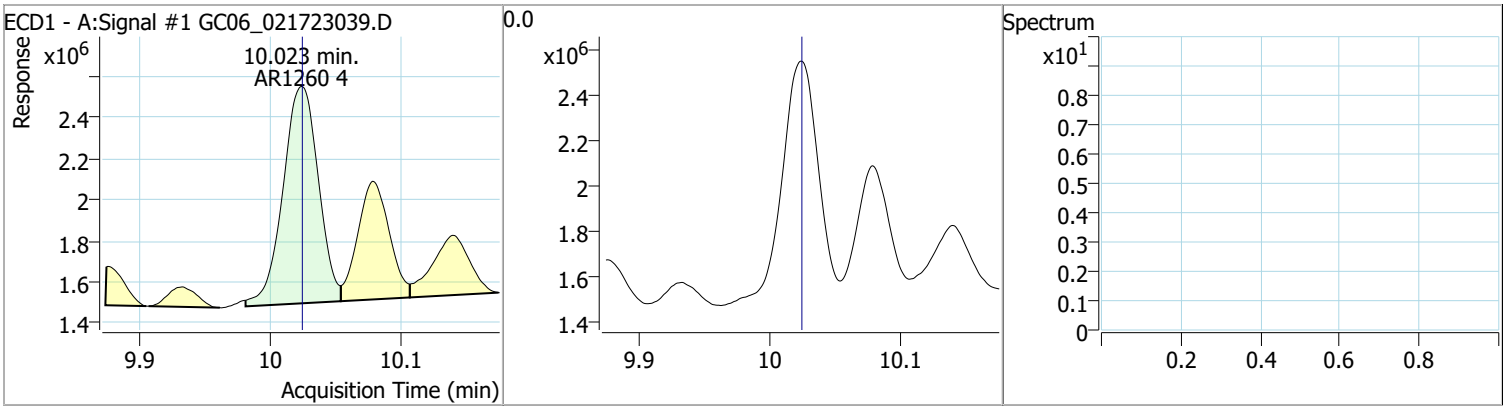
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	294.8594	9.52	0.00	3081274				



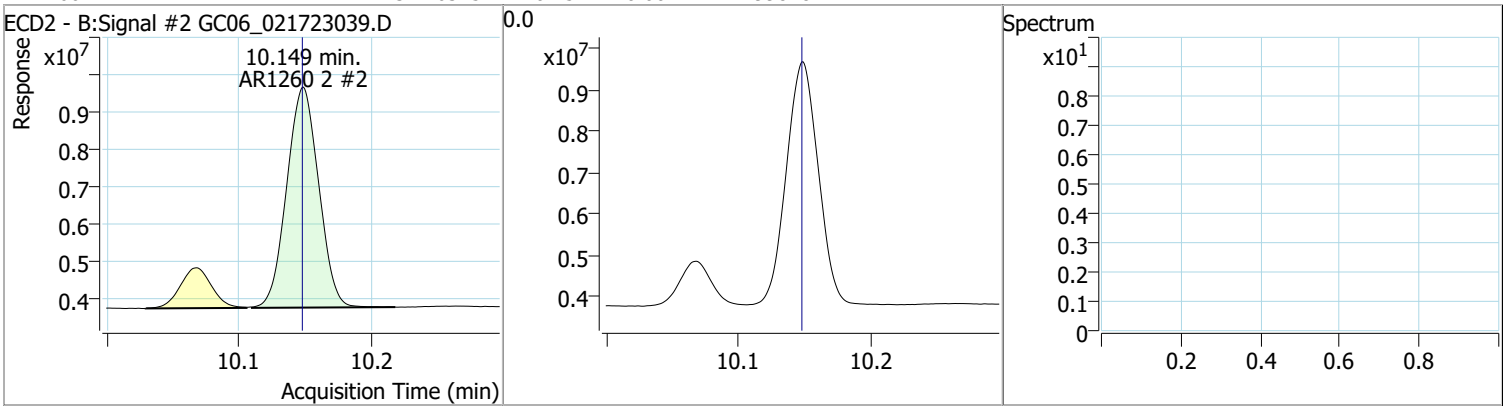
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	339.7693	9.88	0.00	8339048				



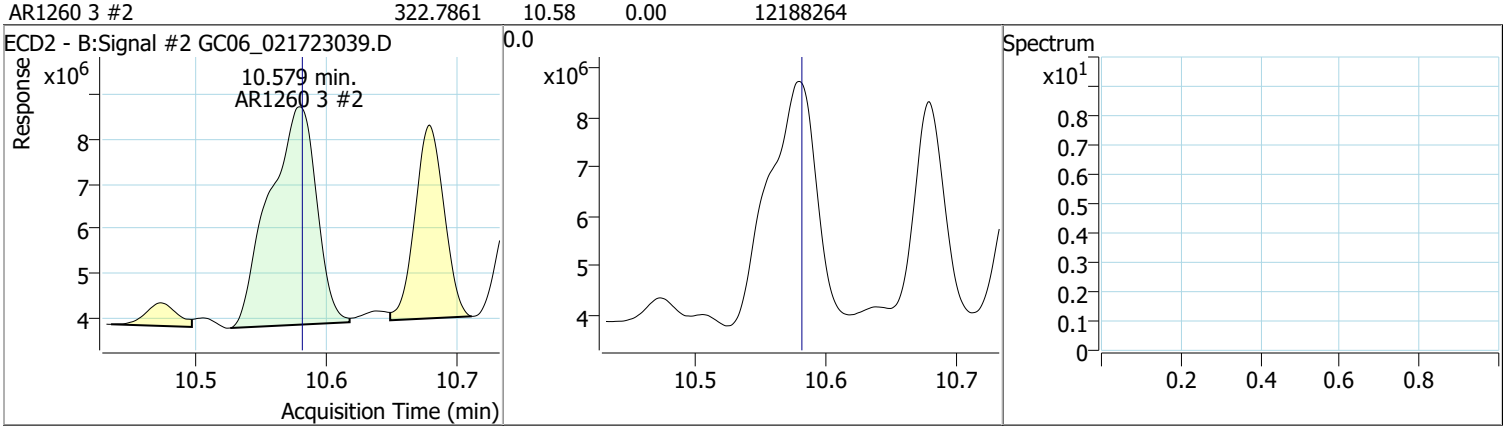
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	358.6125	10.02	0.00	1976530				



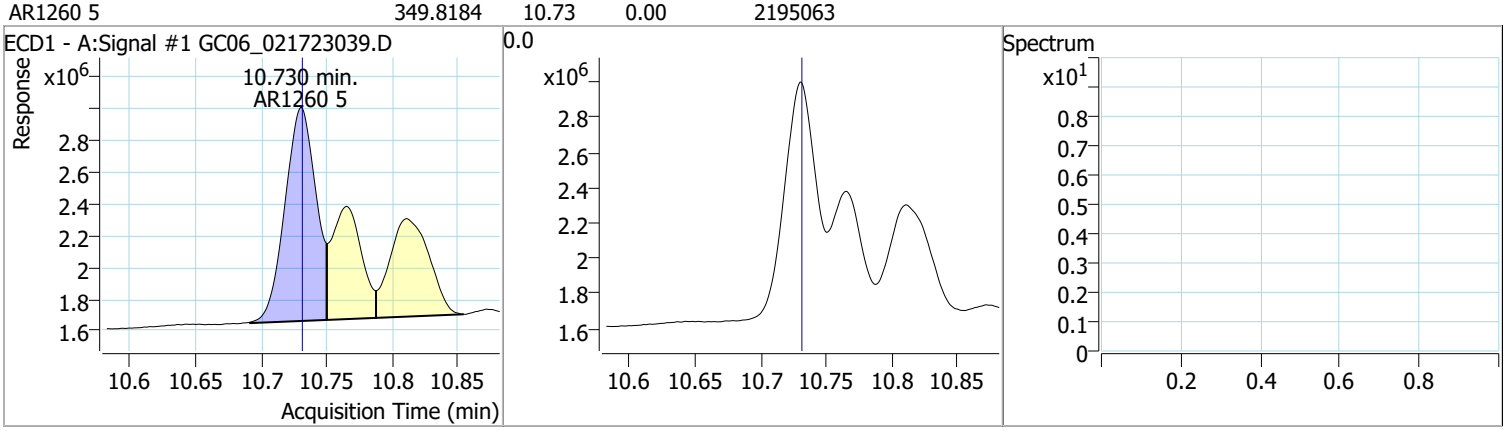
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	344.6375	10.15	0.00	9981872				



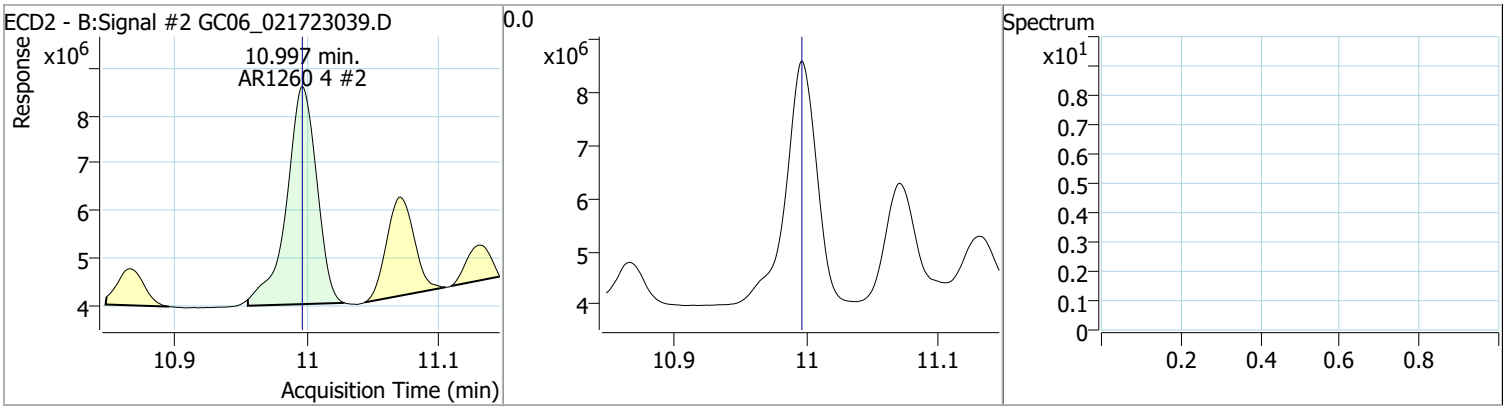
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	322.7861	10.58	0.00	12188264				



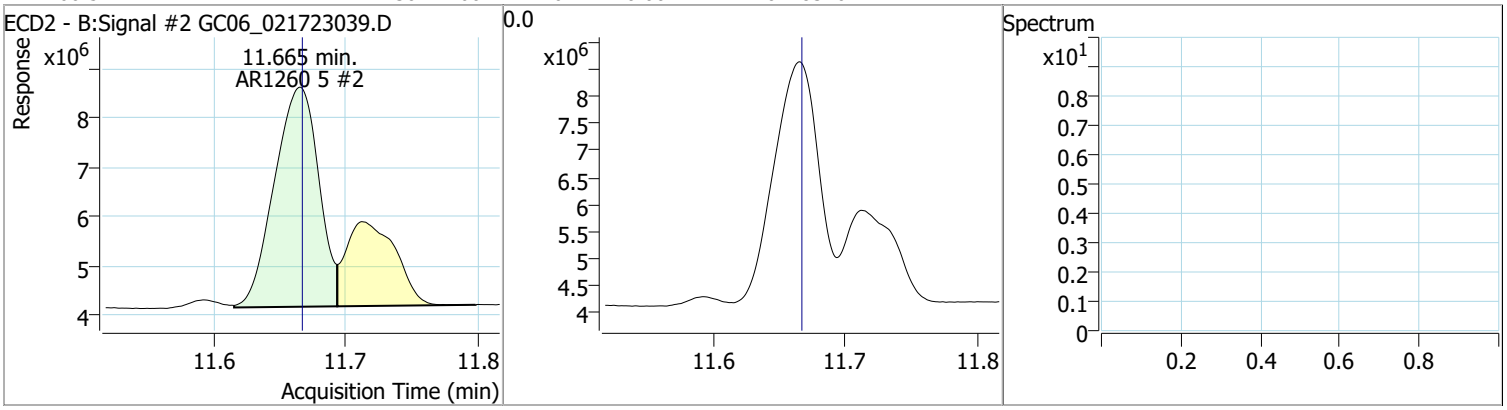
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	349.8184	10.73	0.00	2195063				



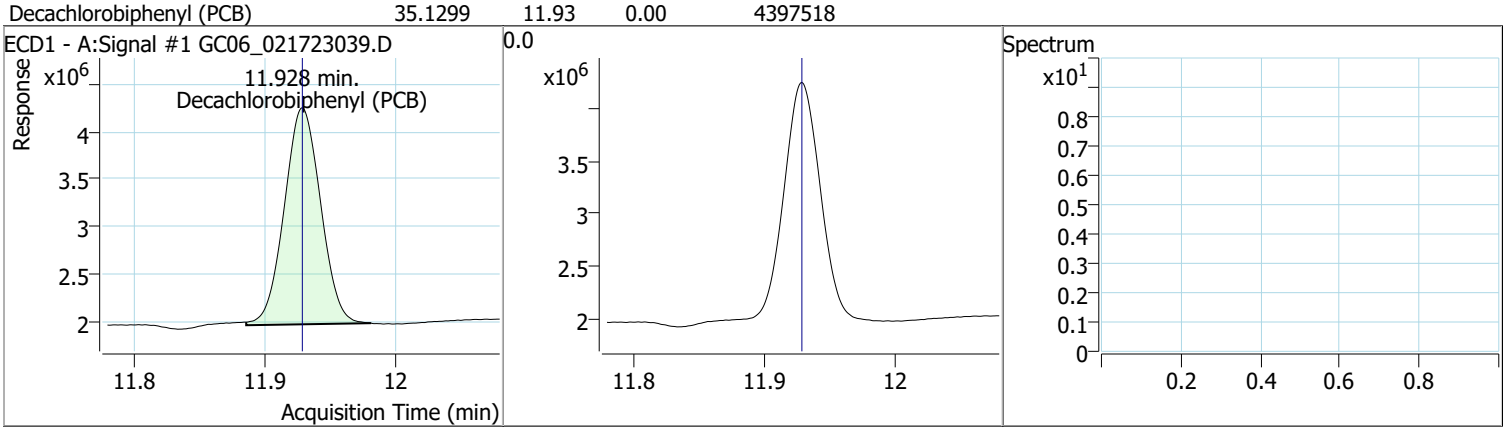
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	367.6362	11.00	0.00	7283117				



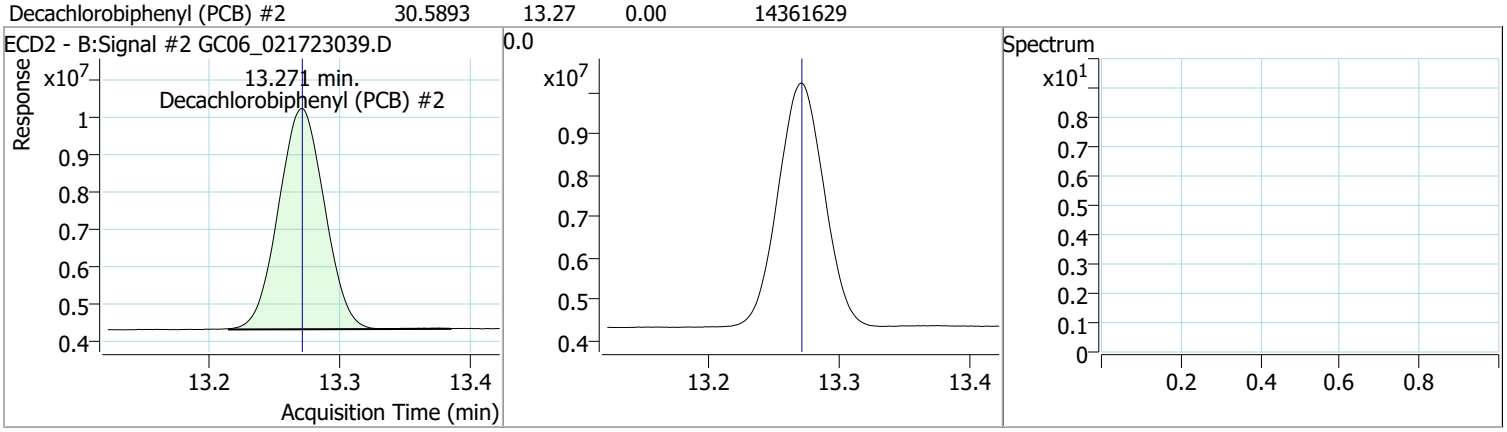
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	301.7760	11.67	0.00	10448316				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	35.1299	11.93	0.00	4397518				

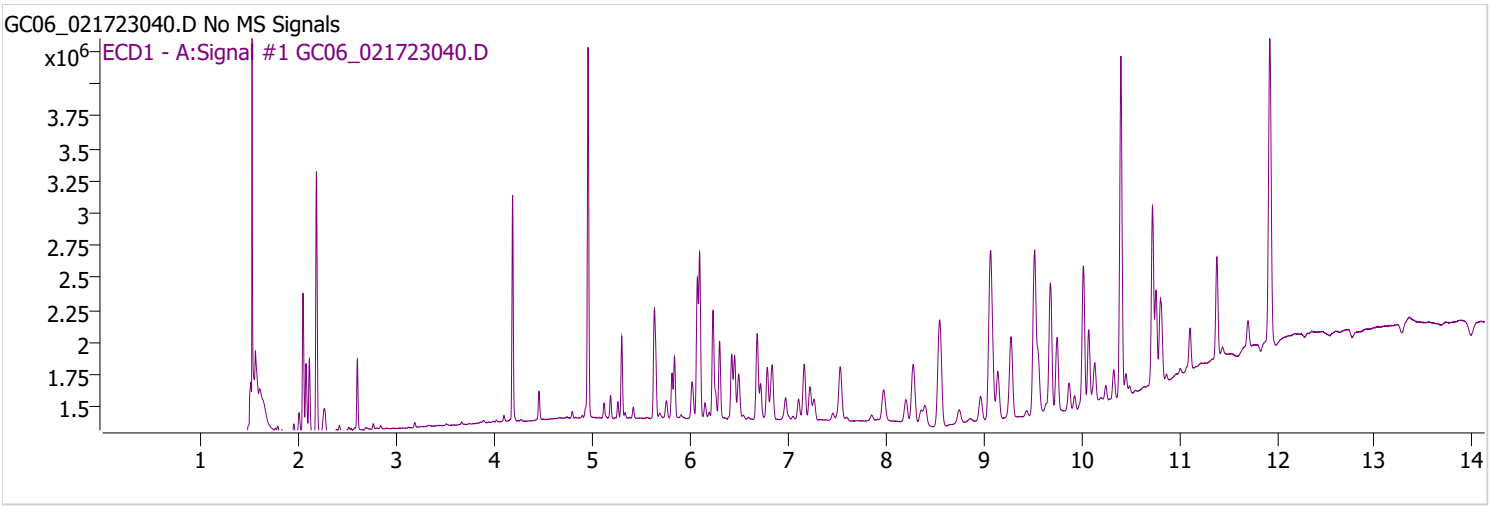


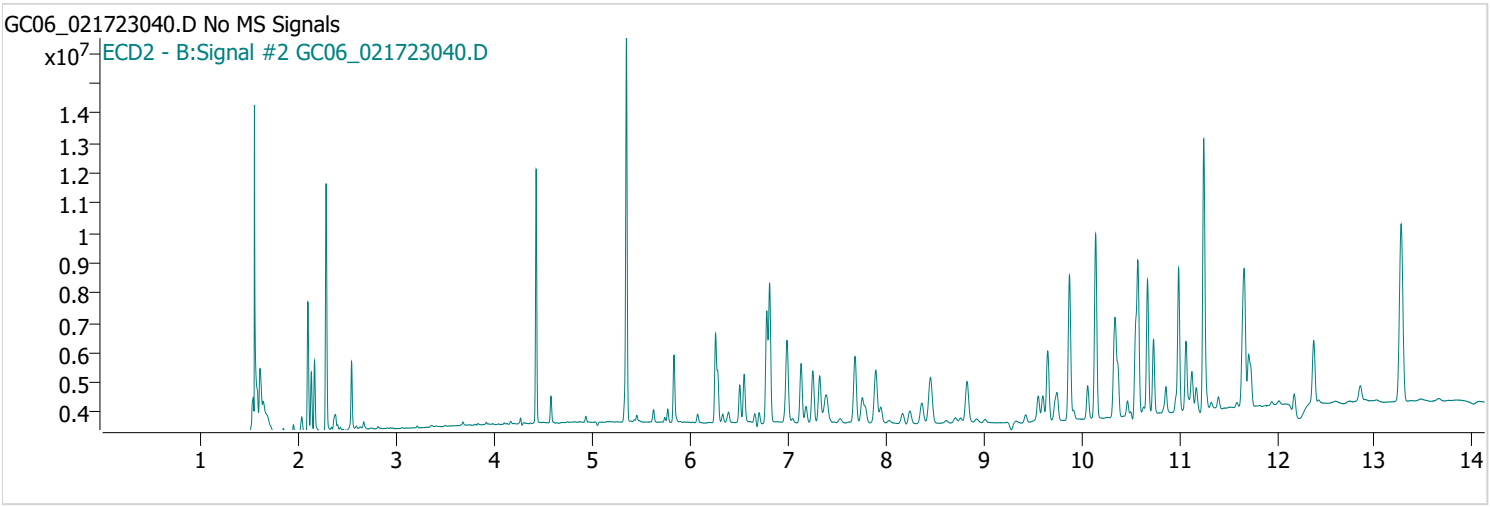
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	30.5893	13.27	0.00	14361629				



Quantitation Results Report (Not Reviewed)

Data File	GC06_021723040.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 8:37:36 PM
Sample Name	QC1046511, 307899, 1	Instrument	SVOA-GC06
Vial	19	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
Ref Library			



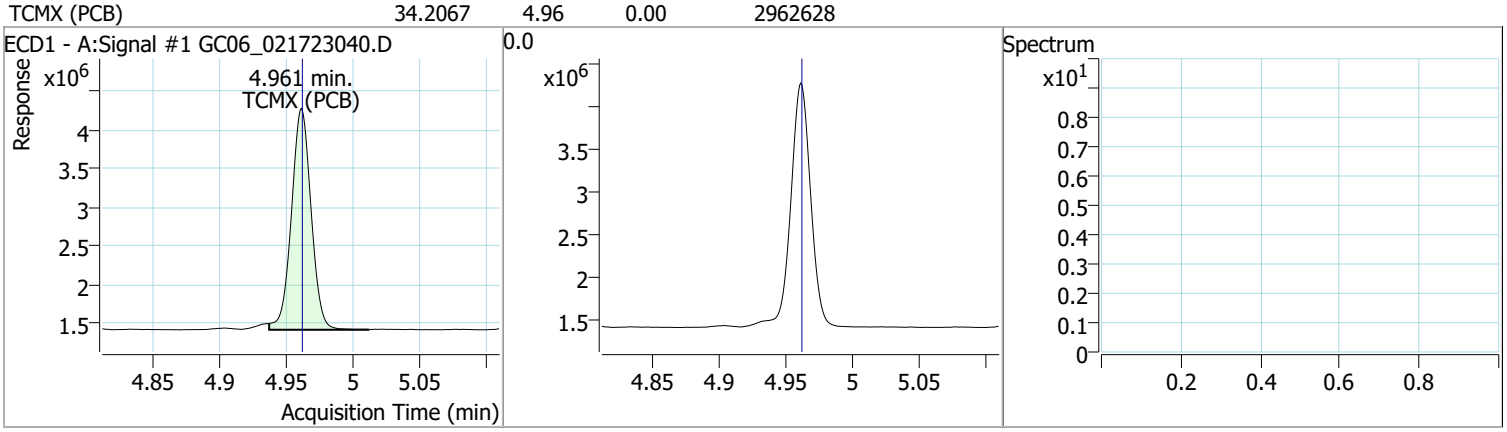


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.190	0.0	1646630.172	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.430	0.0	7529594.371	20.0000	ng/ml		-0.002
System Monitoring Compounds							
S TCMX (PCB)	4.961	0.0	2962628.418	34.2067	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 171.03%		*	
S TCMX (PCB) #2	5.353	0.0	13859835.645	36.2488	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 181.24%		*	
S Decachlorobiphenyl (PCB)	11.928	0.0	4626775.819	36.8286	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 184.14%		*	
S Decachlorobiphenyl (PCB) #2	13.270	0.0	14424983.759	31.7335	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 158.67%		*	
Target Compounds							QValue

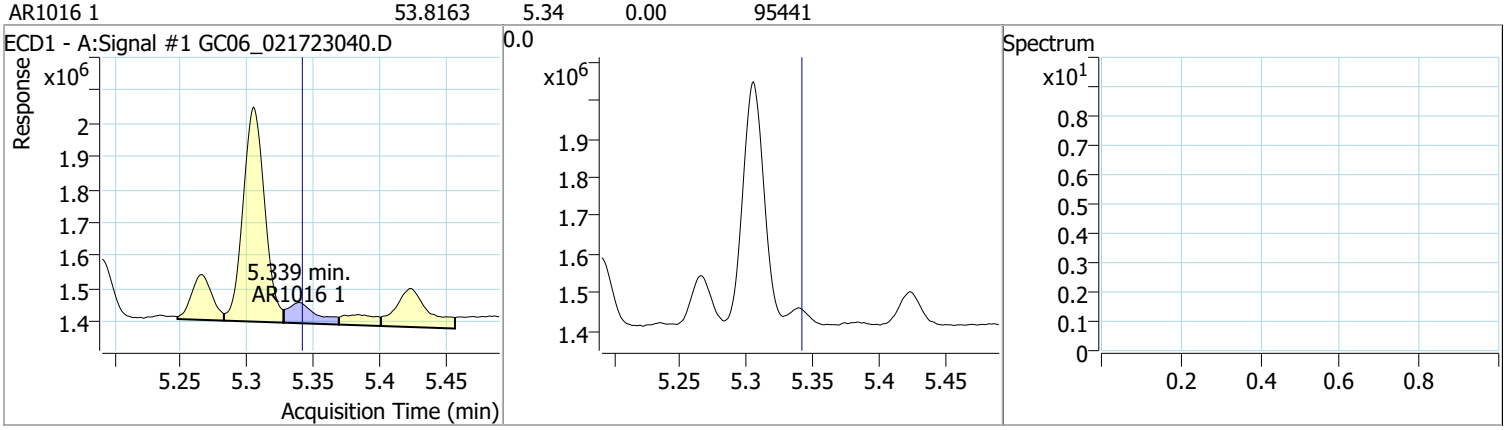
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.339	0.0	95440.876	53.8163	ng/ml	100
T AR1016 2	5.639	0.0	1440033.277	297.9744	ng/ml	100
T AR1016 1 #2	5.839	0.0	2885021.642	366.7353	ng/ml	100
T AR1016 3	6.101	0.0	1746034.082	339.2337	ng/ml	100
T AR1016 4	6.238	0.0	1382244.812	348.3753	ng/ml	100
T AR1016 2 #2	6.264	0.0	5971019.984	324.7536	ng/ml	100
T AR1016 5	6.429	0.0	731350.889	378.0755	ng/ml	100
T AR1016 3 #2	6.816	0.0	7541261.074	335.2118	ng/ml	100
T AR1016 4 #2	6.994	0.0	5305670.817	330.7371	ng/ml	100
T AR1016 5 #2	7.688	0.0	4483849.525	344.9367	ng/ml	100
T AR1260 1	8.554	0.0	2222197.063	333.3920	ng/ml	100
T AR1260 2	9.074	0.0	3575320.380	384.6657	ng/ml	100
T AR1260 3	9.525	0.0	3235629.081	308.5183	ng/ml	100
T AR1260 1 #2	9.880	0.0	8665477.257	364.6677	ng/ml	100
T AR1260 4	10.022	0.0	2043447.518	369.4223	ng/ml	100
T AR1260 2 #2	10.148	0.0	10309835.962	367.6541	ng/ml	100
T AR1260 3 #2	10.578	0.0	12605815.751	344.8109	ng/ml	100
T AR1260 5	10.728	0.0	2291629.163	363.8962	ng/ml	100
T AR1260 4 #2	10.996	0.0	7277309.259	379.4101	ng/ml	100
T AR1260 5 #2	11.665	0.0	10714507.681	319.6301	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

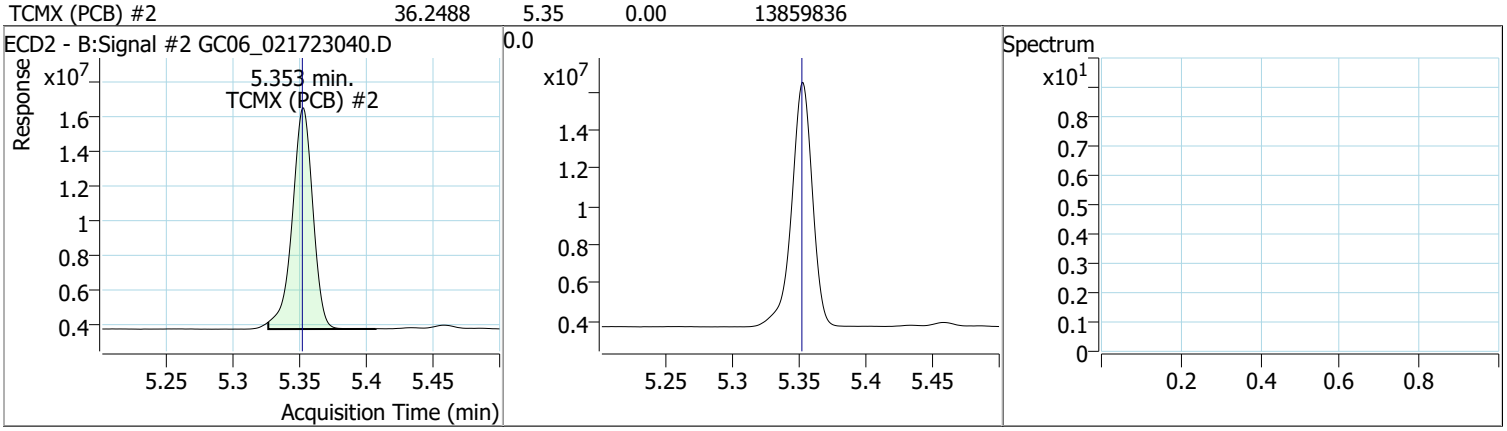
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	34.2067	4.96	0.00	2962628				



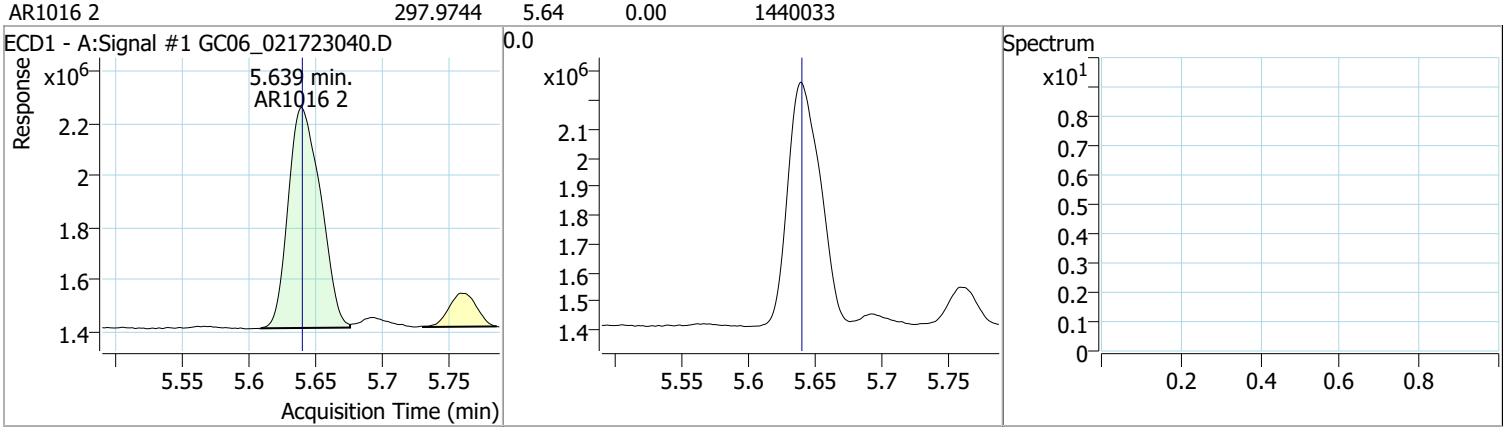
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	53.8163	5.34	0.00	95441				



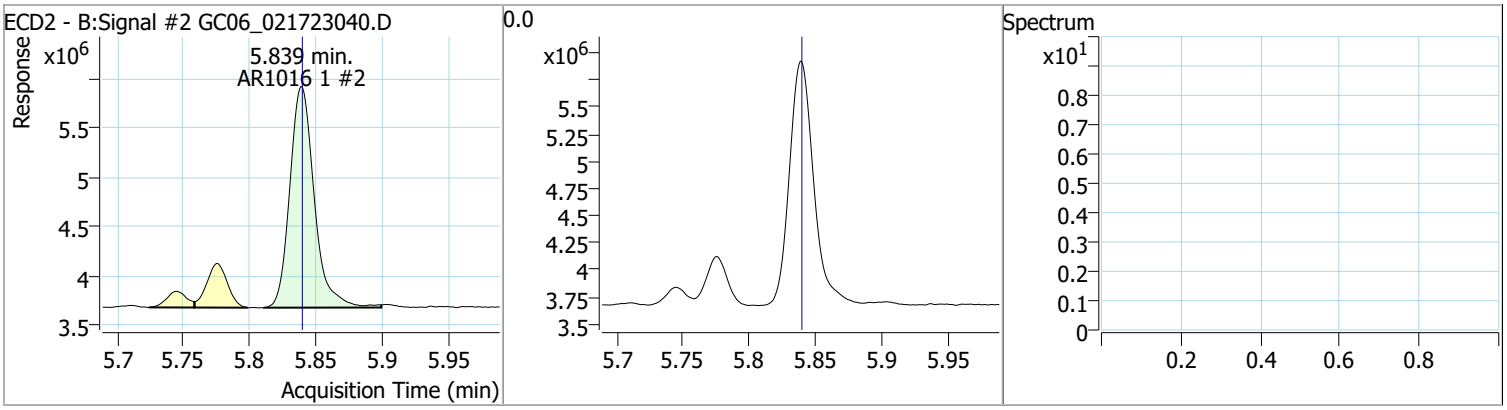
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	36.2488	5.35	0.00	13859836				



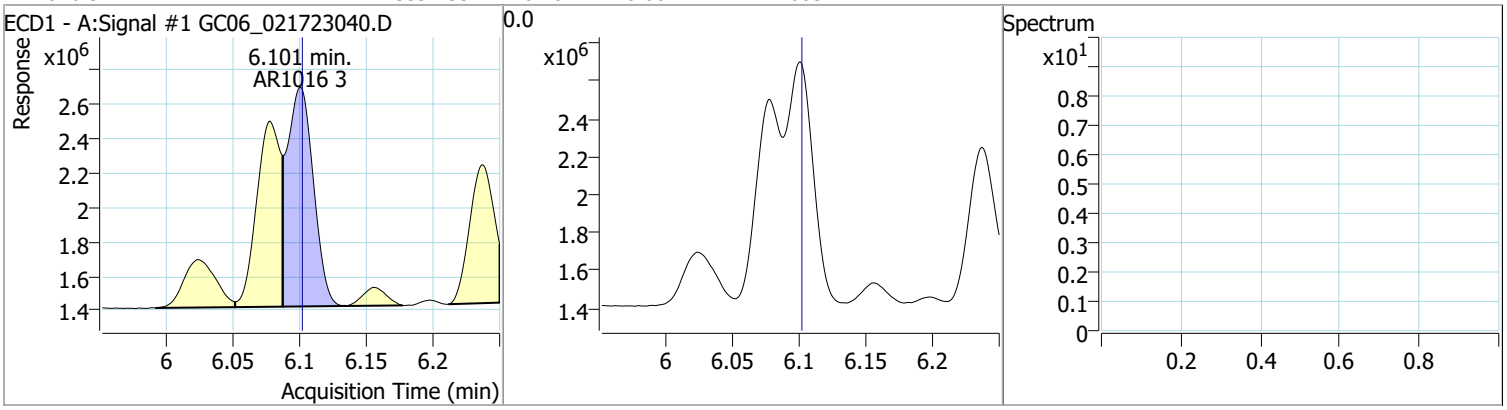
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	297.9744	5.64	0.00	1440033				



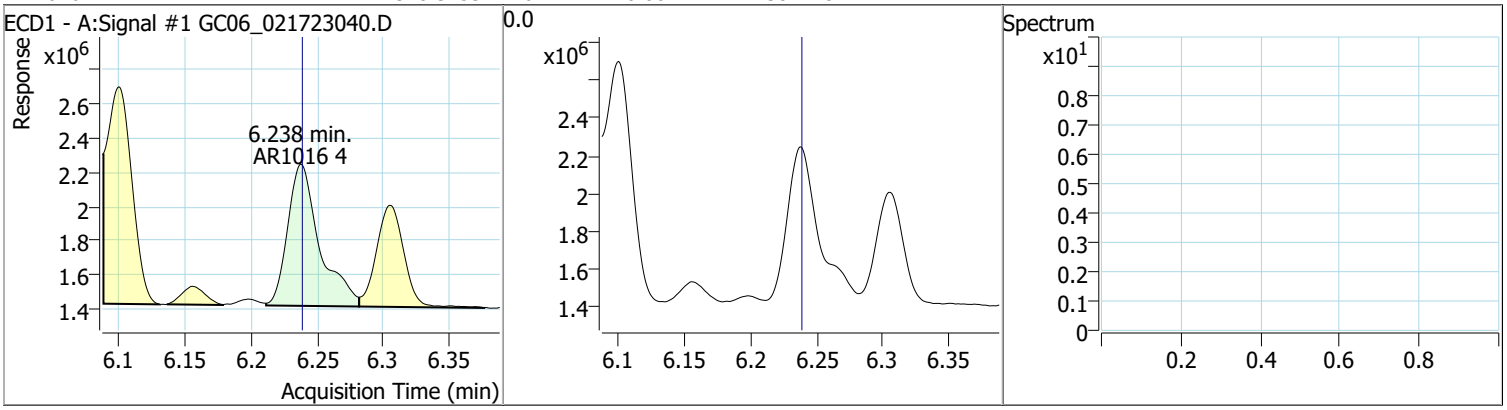
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	366.7353	5.84	0.00	2885022				



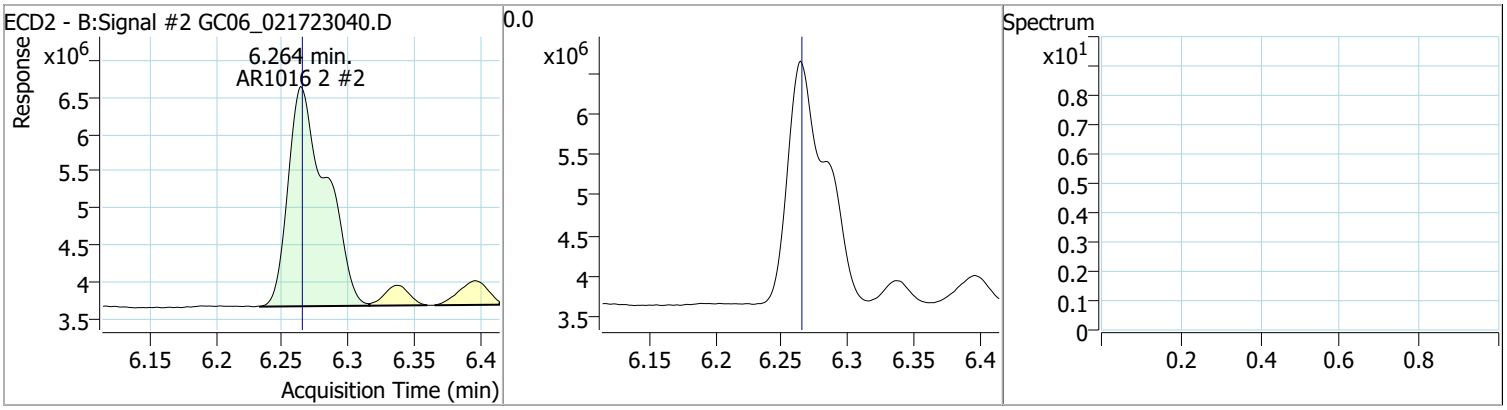
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	339.2337	6.10	0.00	1746034				



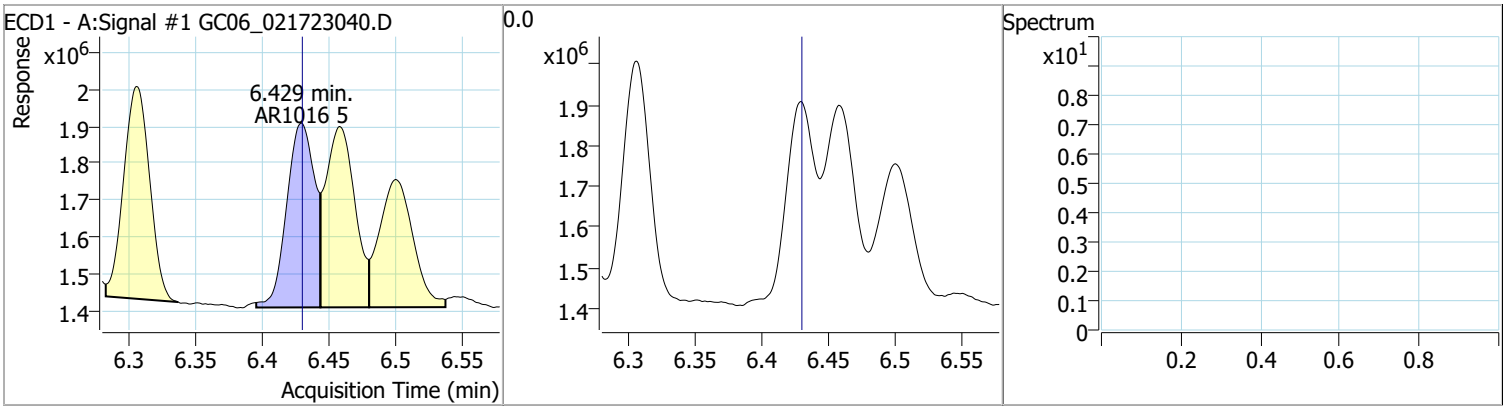
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	348.3753	6.24	0.00	1382245				



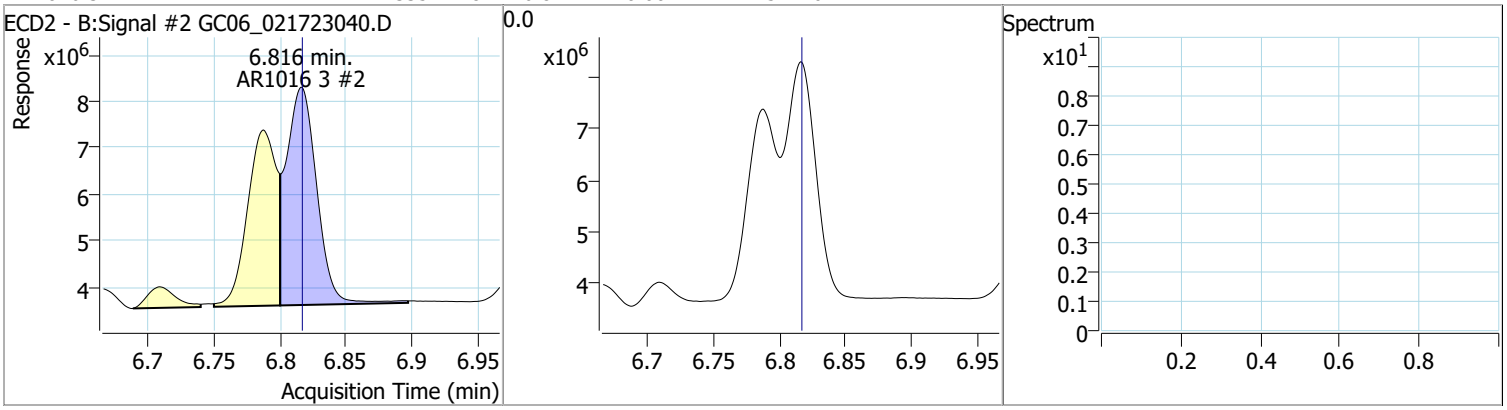
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	324.7536	6.26	0.00	5971020				



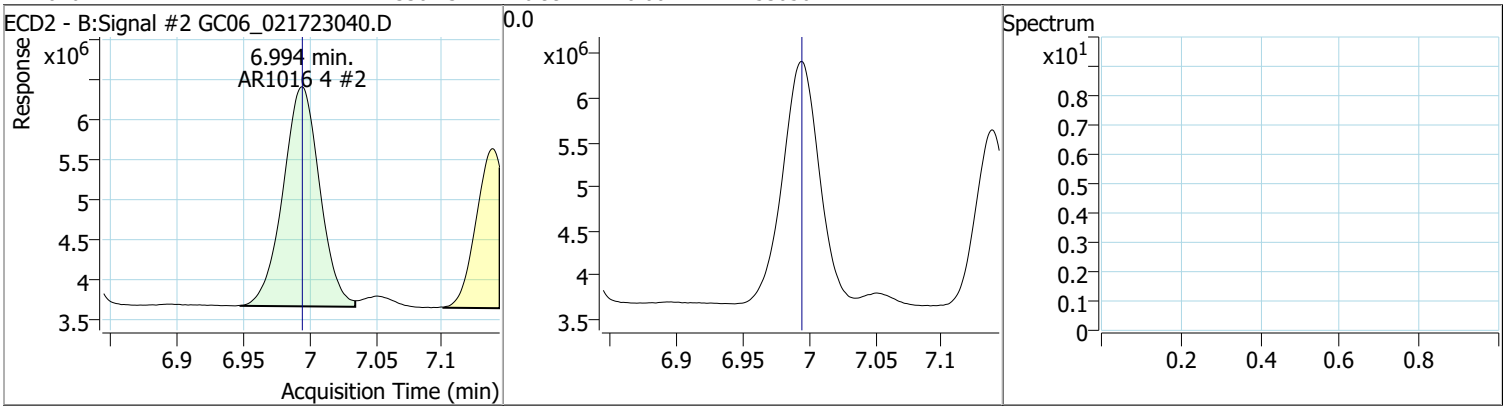
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	378.0755	6.43	0.00	731351				



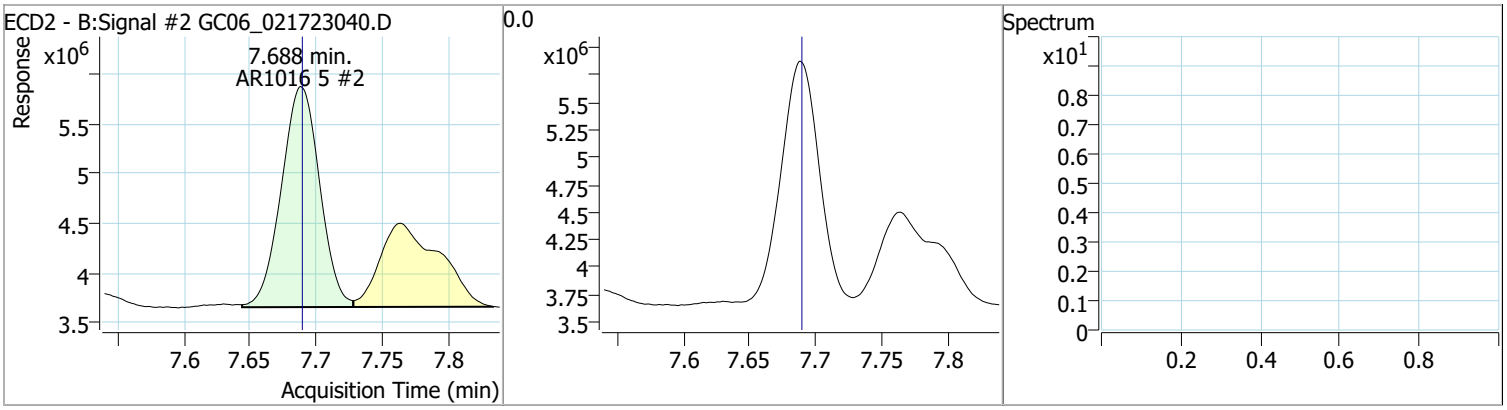
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	335.2118	6.82	0.00	7541261				



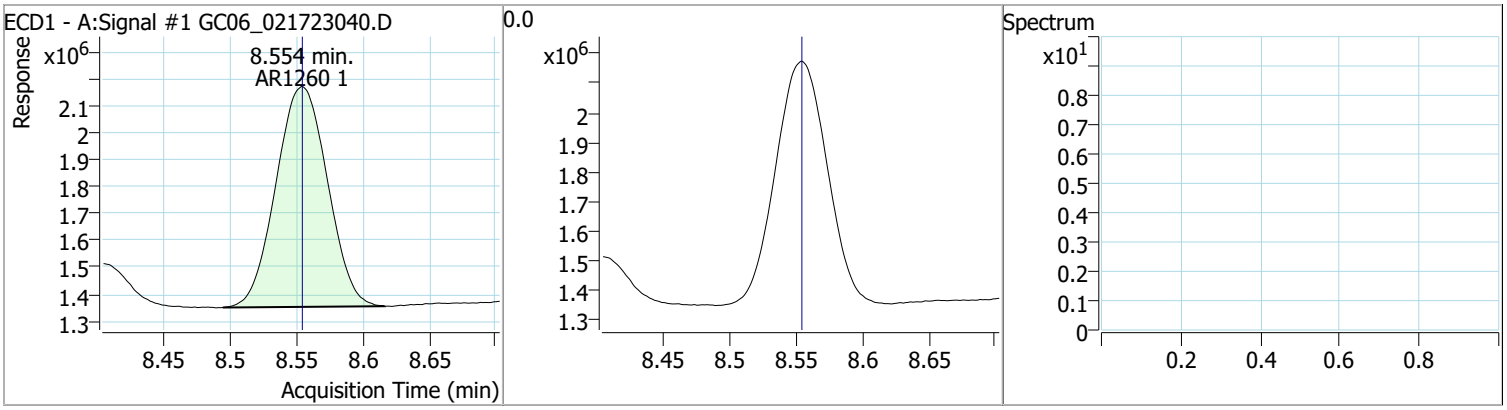
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	330.7371	6.99	0.00	5305671				



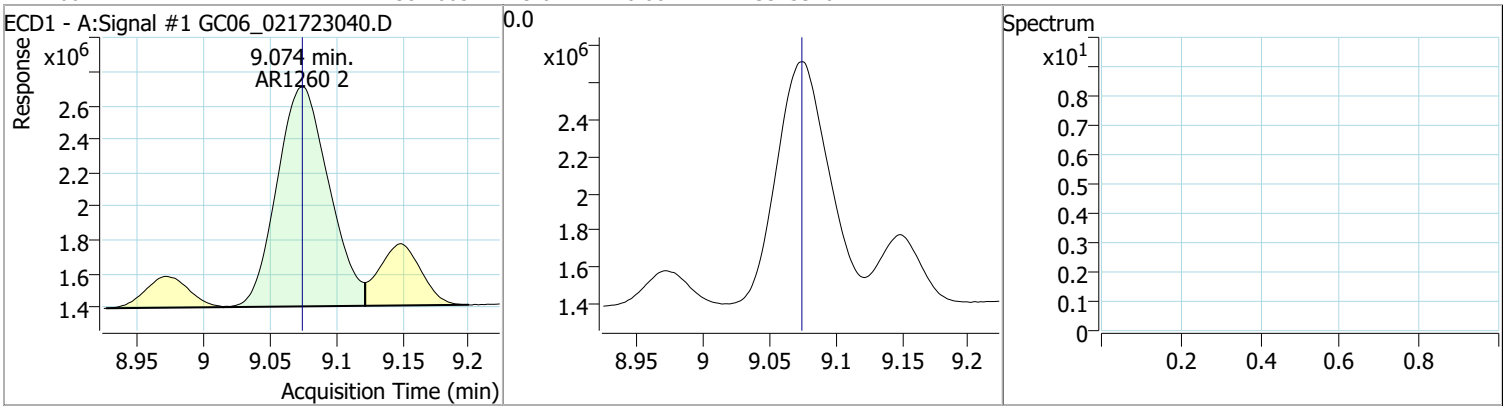
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	344.9367	7.69	0.00	4483850				



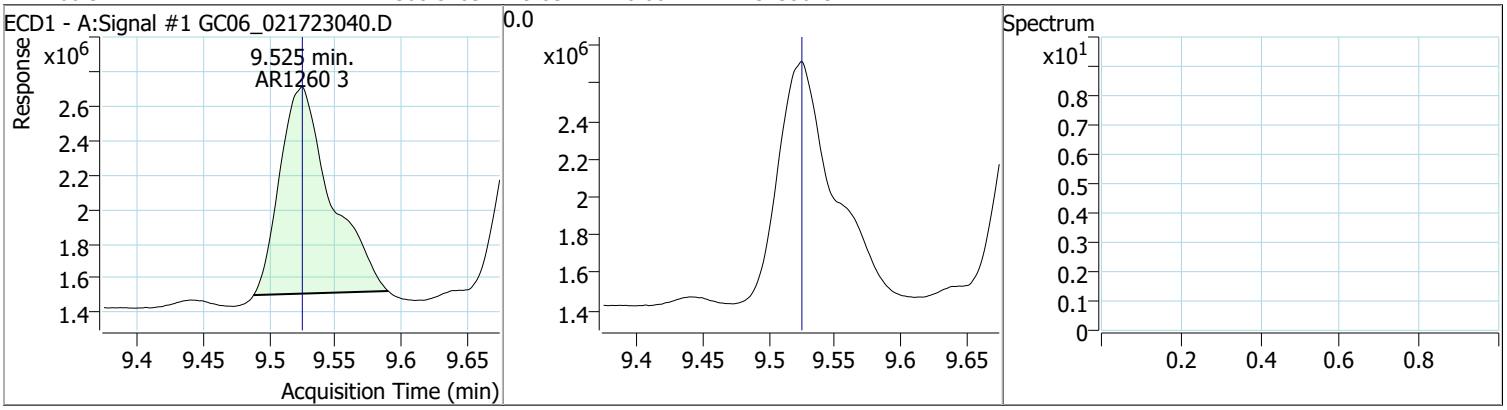
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	333.3920	8.55	0.00	2222197				



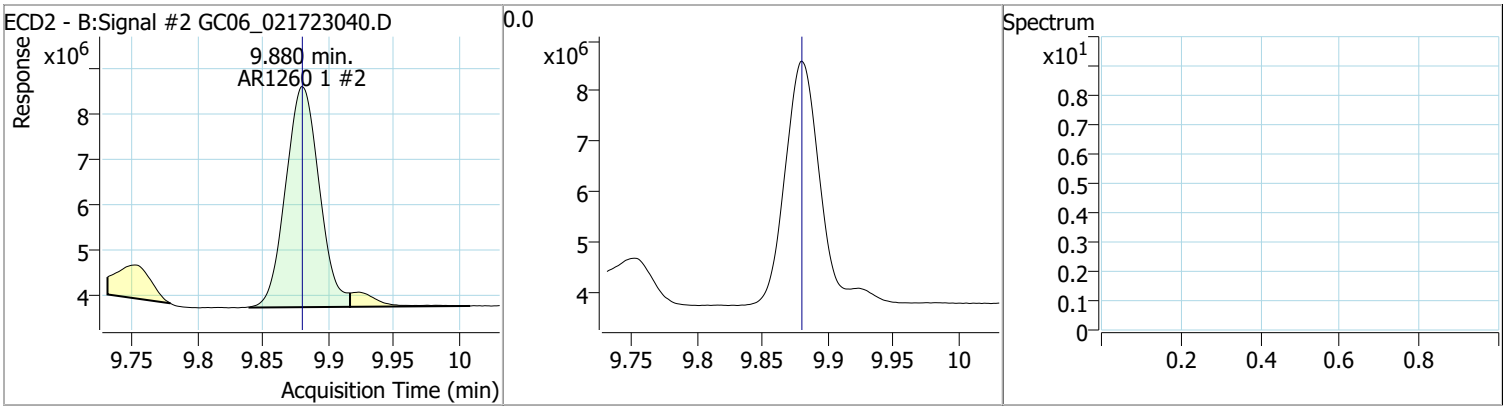
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	384.6657	9.07	0.00	3575320				



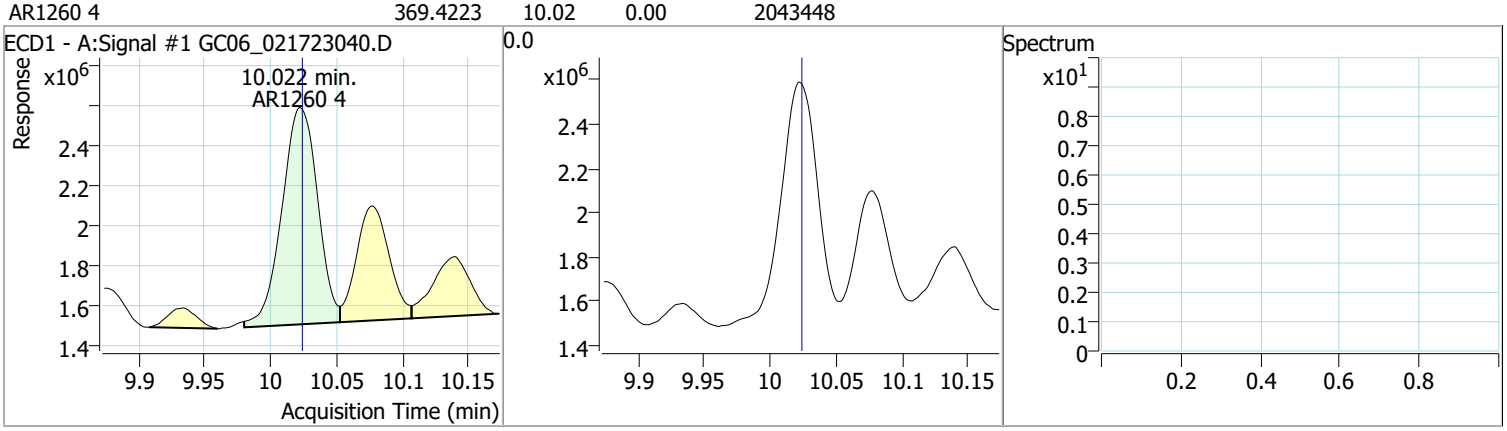
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	308.5183	9.53	0.00	3235629				



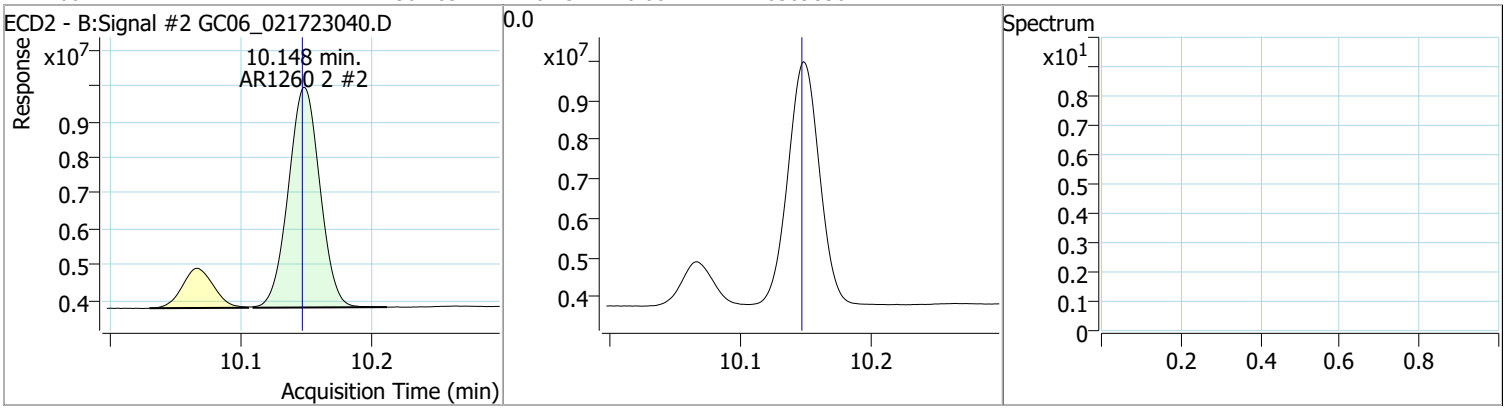
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	364.6677	9.88	0.00	8665477				



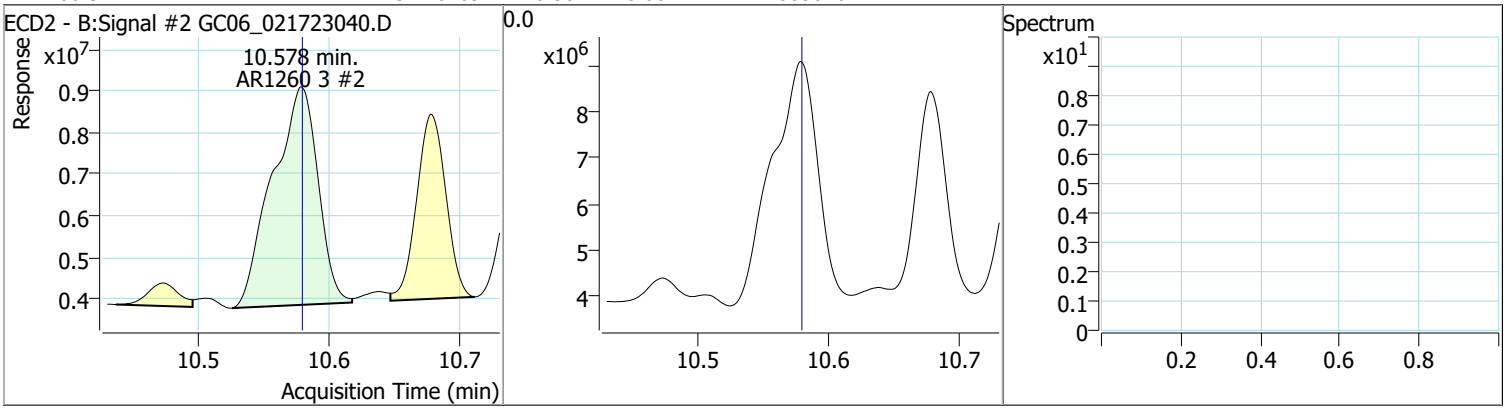
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	369.4223	10.02	0.00	2043448				



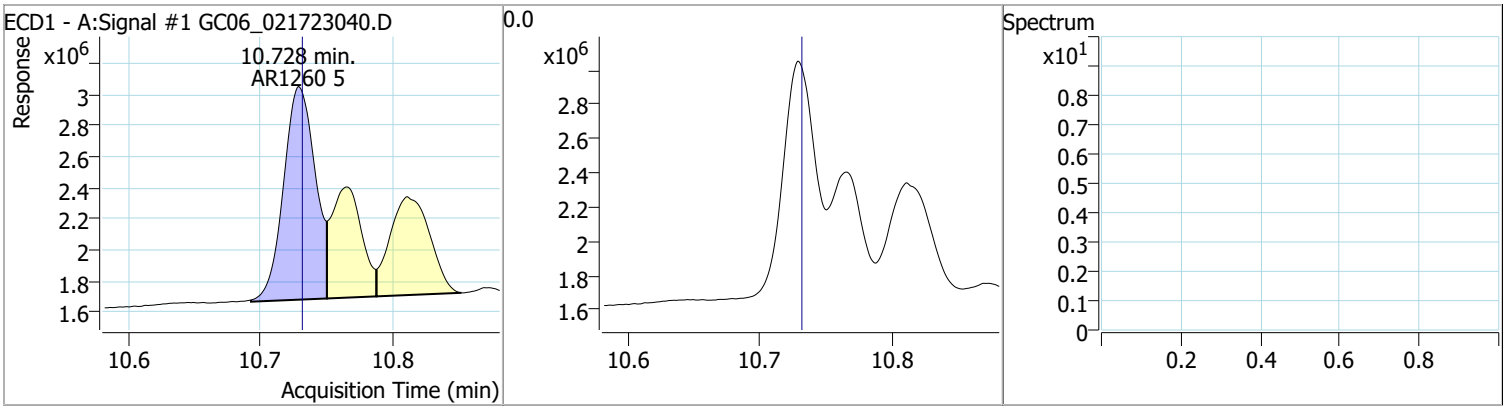
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	367.6541	10.15	0.00	10309836				



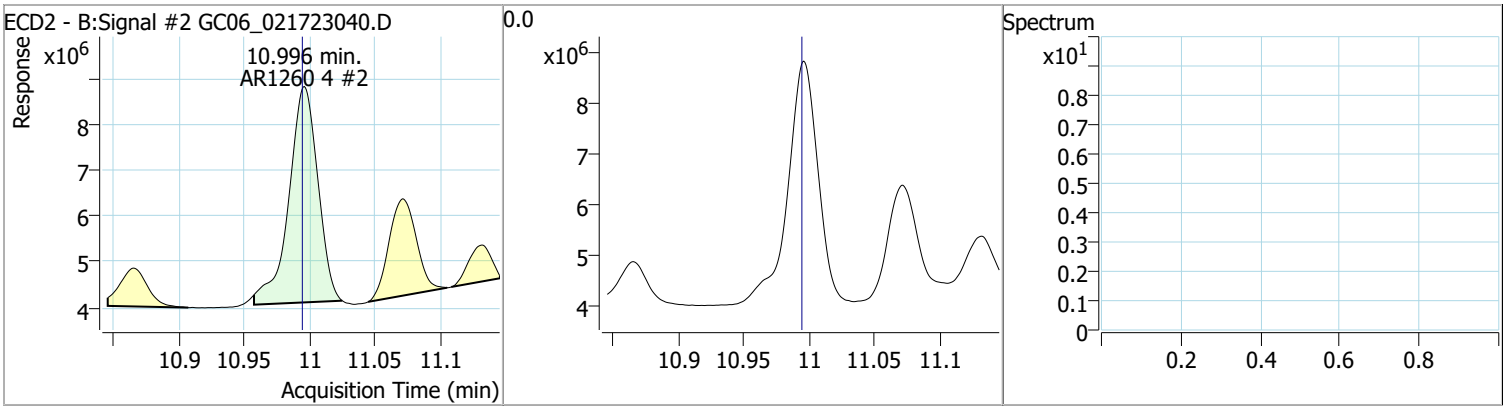
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	344.8109	10.58	0.00	12605816				



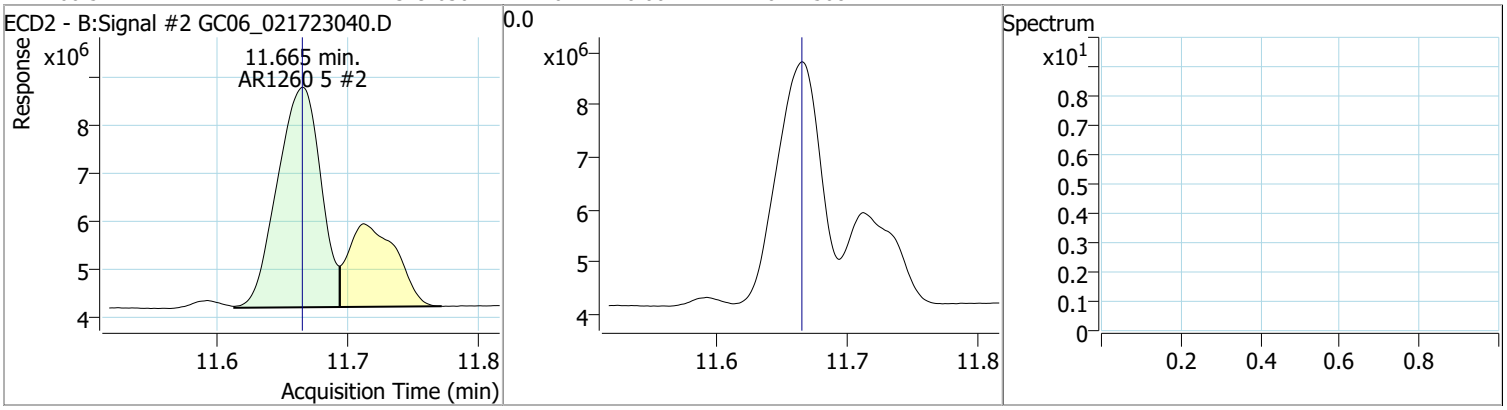
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	363.8962	10.73	0.00	2291629				



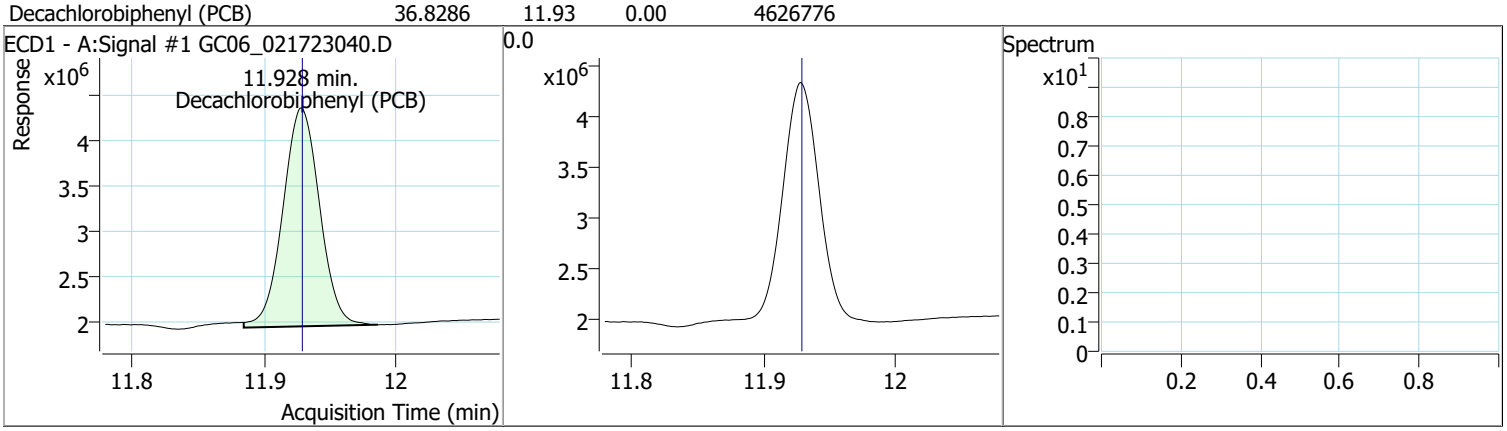
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	379.4101	11.00	0.00	7277309				



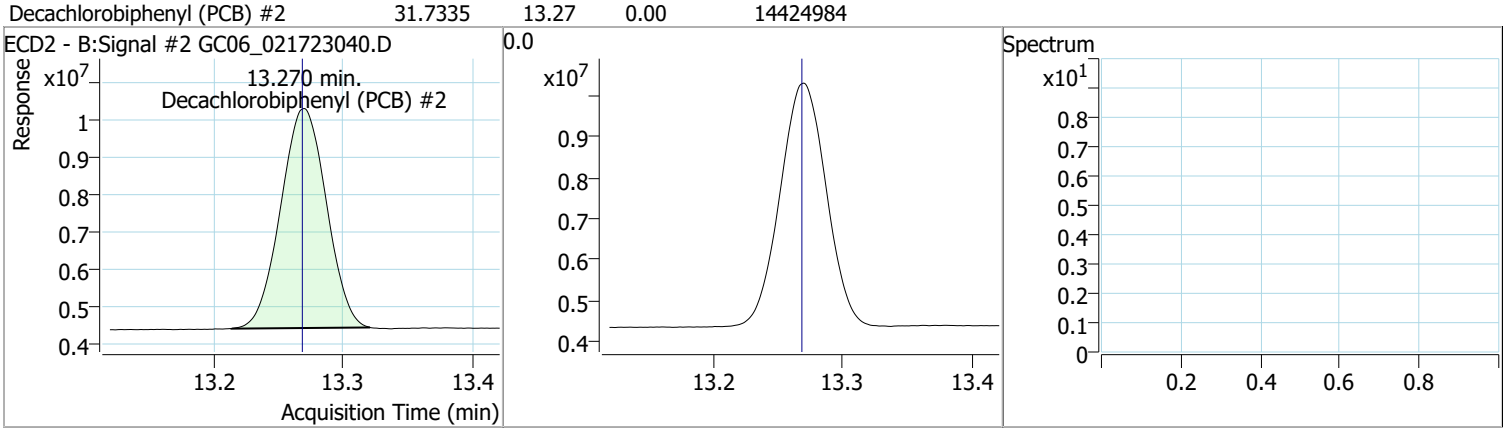
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	319.6301	11.67	0.00	10714508				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	36.8286	11.93	0.00	4626776				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	31.7335	13.27	0.00	14424984				



Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 479661 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_020823_1
Calibration #:	453057263001	Date:	08-FEB-2023 18:23
Units:	ug/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_020823014	453057263014		08-FEB-2023 18:23	S17807
L2	gc06_020823015	453057263015		08-FEB-2023 18:41	S17797
L3	gc06_020823016	453057263016		08-FEB-2023 18:59	S17798
L4	gc06_020823017	453057263017		08-FEB-2023 19:18	S17799
L5	gc06_020823018	453057263018		08-FEB-2023 19:36	S17800
L6	gc06_020823019	453057263019		08-FEB-2023 19:54	S17801
L7	gc06_020823020	453057263020		08-FEB-2023 20:13	S17802
L8	gc06_020823021	453057263021		08-FEB-2023 20:31	S17803
L9	gc06_020823022	453057263022		08-FEB-2023 20:49	S17804
L10	gc06_020823023	453057263023		08-FEB-2023 21:07	S17805

Analyte	Ch	Type	a0	a1	a2	Avg RF	%RSD	n	Min r^2	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG		46.4238		0.0215	13	10	.99	20	
Aroclor-1016 Peak # 2	A	AVRG		17.0362		0.0587	20	6	.99	20	
Aroclor-1016 Peak # 3	A	AVRG		15.9958		0.0625	20	9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG		20.7502		0.0482	20	8	.99	20	
Aroclor-1016 Peak # 5	A	AVRG		42.5611		0.0235	10	9	.99	20	
Aroclor-1260 Peak # 1	A	AVRG		12.3519		0.0810	18	8	.99	20	
Aroclor-1260 Peak # 2	A	AVRG		8.85788		0.1129	20	10	.99	20	
Aroclor-1260 Peak # 3	A	AVRG		7.85022		0.1274	20	7	.99	20	
Aroclor-1260 Peak # 4	A	AVRG		14.8840		0.0672	12	9	.99	20	
Aroclor-1260 Peak # 5	A	AVRG		13.0736		0.0765	11	10	.99	20	
Decachlorobiphenyl (PCB)	A	AVRG		0.65534		1.5259	18	10	.99	20	
TCMX (PCB)	A	AVRG		0.95059		1.0520	20	10	.99	20	
Aroclor-1016 Peak # 1	B	AVRG		47.8564		0.0209	16	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG		20.4758		0.0488	20	9	.99	20	
Aroclor-1016 Peak # 3	B	AVRG		16.7345		0.0598	18	10	.99	20	
Aroclor-1016 Peak # 4	B	AVRG		23.4682		0.0426	16	10	.99	20	
Aroclor-1016 Peak # 5	B	AVRG		28.9618		0.0345	14	10	.99	20	
Aroclor-1260 Peak # 1	B	AVRG		15.8432		0.0631	19	10	.99	20	
Aroclor-1260 Peak # 2	B	AVRG		13.4253		0.0745	18	9	.99	20	
Aroclor-1260 Peak # 3	B	AVRG		10.2979		0.0971	19	10	.99	20	
Aroclor-1260 Peak # 4	B	AVRG		19.6279		0.0509	11	9	.99	20	
Aroclor-1260 Peak # 5	B	AVRG		11.2308		0.0890	15	10	.99	20	
Decachlorobiphenyl (PCB)	B	AVRG		0.82821		1.2074	17	10	.99	20	
TCMX (PCB)	B	AVRG		0.98463		1.0156	18	10	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)
AVRG: Average response factor

ENTHALPY INITIAL CALIBRATION FOR 479661 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_020823_1
Calibration #:	453057263001	Date:	08-FEB-2023 18:23
Units:	ug/L	X Axis:	R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF	L10 RF
Aroclor-1016 Peak # 1	A	0.0237	0.0266	0.0226	0.0225	0.0235	0.0214	0.0197	0.0192	0.0179	0.0183
Aroclor-1016 Peak # 2	A	0.0682	0.0769	0.0553	0.0531	0.0525	0.0462				
Aroclor-1016 Peak # 3	A	0.0863	0.0775	0.0644	0.0624	0.0630	0.0568	0.0523	0.0522	0.0476	
Aroclor-1016 Peak # 4	A	0.0684	0.0553	0.0466	0.0466	0.0477	0.0433	0.0393	0.0384		
Aroclor-1016 Peak # 5	A		0.0237	0.0213	0.0259	0.0278	0.0254	0.0229	0.0223	0.0208	0.0213
Aroclor-1260 Peak # 1	A	0.1088	0.0927	0.0807	0.0796	0.0837	0.0719	0.0649	0.0653		
Aroclor-1260 Peak # 2	A	0.1577	0.1305	0.1239	0.1197	0.1246	0.1064	0.0955	0.0950	0.0847	0.0910
Aroclor-1260 Peak # 3	A		0.1773	0.1351	0.1178	0.1355	0.1148	0.1056	0.1057		
Aroclor-1260 Peak # 4	A		0.0738	0.0736	0.0725	0.0788	0.0678	0.0615	0.0624	0.0550	0.0592
Aroclor-1260 Peak # 5	A	0.0892	0.0799	0.0792	0.0808	0.0867	0.0762	0.0689	0.0686	0.0645	0.0708
Decachlorobiphenyl (PCB)	A	2.1785	1.7591	1.5788	1.5319	1.4716	1.4978	1.3051	1.3306	1.2606	1.3452
TCMX (PCB)	A	1.1975	1.5848	1.0815	1.0564	0.9745	0.9675	0.8874	0.9122	0.9149	0.9430
Aroclor-1016 Peak # 1	B		0.0281	0.0227	0.0220	0.0222	0.0207	0.0189	0.0184	0.0175	0.0178
Aroclor-1016 Peak # 2	B	0.0695	0.0571	0.0509	0.0488	0.0485	0.0452	0.0413	0.0403	0.0379	
Aroclor-1016 Peak # 3	B	0.0841	0.0686	0.0661	0.0602	0.0600	0.0561	0.0513	0.0508	0.0495	0.0508
Aroclor-1016 Peak # 4	B	0.0586	0.0468	0.0452	0.0434	0.0449	0.0412	0.0378	0.0373	0.0348	0.0361
Aroclor-1016 Peak # 5	B	0.0449	0.0378	0.0355	0.0357	0.0366	0.0341	0.0310	0.0306	0.0288	0.0302
Aroclor-1260 Peak # 1	B	0.0889	0.0737	0.0662	0.0657	0.0677	0.0603	0.0536	0.0534	0.0492	0.0525
Aroclor-1260 Peak # 2	B		0.1004	0.0851	0.0806	0.0823	0.0720	0.0642	0.0636	0.0590	0.0632
Aroclor-1260 Peak # 3	B	0.1388	0.1130	0.1008	0.0979	0.1041	0.0915	0.0845	0.0849	0.0748	0.0807
Aroclor-1260 Peak # 4	B		0.0585	0.0558	0.0544	0.0545	0.0525	0.0469	0.0461	0.0418	0.0480
Aroclor-1260 Peak # 5	B	0.1135	0.1018	0.0920	0.0904	0.0978	0.0873	0.0805	0.0813	0.0704	0.0754
Decachlorobiphenyl (PCB)	B	1.6965	1.3671	1.2720	1.2353	1.1831	1.1949	1.0275	1.0475	0.9952	1.0552
TCMX (PCB)	B	1.4930	1.1674	1.0201	0.9557	0.9237	0.9568	0.8797	0.9070	0.9106	0.9421

ENTHALPY INITIAL CALIBRATION FOR 479661 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_020823_1
Calibration #:	453057263001	Date:	08-FEB-2023 18:23
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A	10.000	10	20.000	**24**	50.000	5	100.00	4	250.00	9	500.00	-1	749.91	-8	1000.0	-11
Aroclor-1016 Peak # 2	A	10.000	16	20.000	**31**	50.000	-6	100.00	-10	250.00	-11	500.00	**-21**				
Aroclor-1016 Peak # 3	A	10.000	**38**	20.000	**24**	50.000	3	100.00	0	250.00	1	500.00	-9	749.91	-16	1000.0	-16
Aroclor-1016 Peak # 4	A	10.000	**42**	20.000	15	50.000	-3	100.00	-3	250.00	-1	500.00	-10	749.91	-19	1000.0	-20
Aroclor-1016 Peak # 5	A			20.000	1	50.000	-9	100.00	10	250.00	18	500.00	8	749.91	-3	1000.0	-5
Aroclor-1260 Peak # 1	A	10.000	**34**	20.000	15	50.000	0	100.00	-2	250.00	3	500.00	-11	749.91	-20	1000.0	-19
Aroclor-1260 Peak # 2	A	10.000	**40**	20.000	16	50.000	10	100.00	6	250.00	10	500.00	-6	749.91	-15	1000.0	-16
Aroclor-1260 Peak # 3	A			20.000	**39**	50.000	6	100.00	-8	250.00	6	500.00	-10	749.91	-17	1000.0	-17
Aroclor-1260 Peak # 4	A			20.000	10	50.000	10	100.00	8	250.00	17	500.00	1	749.91	-8	1000.0	-7
Aroclor-1260 Peak # 5	A	10.000	17	20.000	4	50.000	4	100.00	6	250.00	13	500.00	0	749.91	-10	1000.0	-10
Decachlorobiphenyl (PCB)	A	0.8000	**43**	1.6000	15	4.0000	3	8.0000	0	20.000	-4	40.000	-2	59.993	-14	80.000	-13
TCMX (PCB)	A	0.8000	14	1.6000	**51**	4.0000	3	8.0000	0	20.000	-7	40.000	-8	59.993	-16	80.000	-13
Aroclor-1016 Peak # 1	B			20.000	**34**	50.000	9	100.00	5	250.00	6	500.00	-1	749.91	-10	1000.0	-12
Aroclor-1016 Peak # 2	B	10.000	**42**	20.000	17	50.000	4	100.00	0	250.00	-1	500.00	-8	749.91	-15	1000.0	-18
Aroclor-1016 Peak # 3	B	10.000	**41**	20.000	15	50.000	11	100.00	1	250.00	0	500.00	-6	749.91	-14	1000.0	-15
Aroclor-1016 Peak # 4	B	10.000	**38**	20.000	10	50.000	6	100.00	2	250.00	5	500.00	-3	749.91	-11	1000.0	-12
Aroclor-1016 Peak # 5	B	10.000	**30**	20.000	10	50.000	3	100.00	3	250.00	6	500.00	-1	749.91	-10	1000.0	-11
Aroclor-1260 Peak # 1	B	10.000	**41**	20.000	17	50.000	5	100.00	4	250.00	7	500.00	-4	749.91	-15	1000.0	-15
Aroclor-1260 Peak # 2	B			20.000	**35**	50.000	14	100.00	8	250.00	11	500.00	-3	749.91	-14	1000.0	-15
Aroclor-1260 Peak # 3	B	10.000	**43**	20.000	16	50.000	4	100.00	1	250.00	7	500.00	-6	749.91	-13	1000.0	-13
Aroclor-1260 Peak # 4	B			20.000	15	50.000	10	100.00	7	250.00	7	500.00	3	749.91	-8	1000.0	-9
Aroclor-1260 Peak # 5	B	10.000	**27**	20.000	14	50.000	3	100.00	2	250.00	10	500.00	-2	749.91	-10	1000.0	-9
Decachlorobiphenyl (PCB)	B	0.8000	**41**	1.6000	13	4.0000	5	8.0000	2	20.000	-2	40.000	-1	59.993	-15	80.000	-13
TCMX (PCB)	B	0.8000	**47**	1.6000	15	4.0000	0	8.0000	-6	20.000	-9	40.000	-6	59.993	-13	80.000	-11

ENTHALPY INITIAL CALIBRATION FOR 479661 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_020823_1
Calibration #:	453057263001	Date:	08-FEB-2023 18:23
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L9	%D	L10	%D
Aroclor-1016 Peak # 1	A	1500.0	-17	2000.0	-15
Aroclor-1016 Peak # 2	A				
Aroclor-1016 Peak # 3	A	1500.0	**-24**		
Aroclor-1016 Peak # 4	A				
Aroclor-1016 Peak # 5	A	1500.0	-12	2000.0	-9
Aroclor-1260 Peak # 1	A				
Aroclor-1260 Peak # 2	A	1500.0	**-25**	2000.0	-19
Aroclor-1260 Peak # 3	A				
Aroclor-1260 Peak # 4	A	1500.0	-18	2000.0	-12
Aroclor-1260 Peak # 5	A	1500.0	-16	2000.0	-7
Decachlorobiphenyl (PCB)	A	120.00	-17	160.00	-12
TCMX (PCB)	A	120.00	-13	160.00	-10
Aroclor-1016 Peak # 1	B	1500.0	-16	2000.0	-15
Aroclor-1016 Peak # 2	B	1500.0	**-22**		
Aroclor-1016 Peak # 3	B	1500.0	-17	2000.0	-15
Aroclor-1016 Peak # 4	B	1500.0	-18	2000.0	-15
Aroclor-1016 Peak # 5	B	1500.0	-17	2000.0	-12
Aroclor-1260 Peak # 1	B	1500.0	**-22**	2000.0	-17
Aroclor-1260 Peak # 2	B	1500.0	**-21**	2000.0	-15
Aroclor-1260 Peak # 3	B	1500.0	**-23**	2000.0	-17
Aroclor-1260 Peak # 4	B	1500.0	-18	2000.0	-6
Aroclor-1260 Peak # 5	B	1500.0	**-21**	2000.0	-15
Decachlorobiphenyl (PCB)	B	120.00	-18	160.00	-13
TCMX (PCB)	B	120.00	-10	160.00	-7

TRN 02/09/23 : Manually integrated for coeluting peak, negative/positive, tailing for one/both channels on multiple levels

Analyst: TRN 02/09/23 *

Reviewer: LW 02/09/23

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 479661 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Name:	PCB_020823_1
Calnum:	453057263001	Cal Date:	08-FEB-2023

- ICV 453057263025 (gc06_020823025 08-FEB-2023) stds: S17806

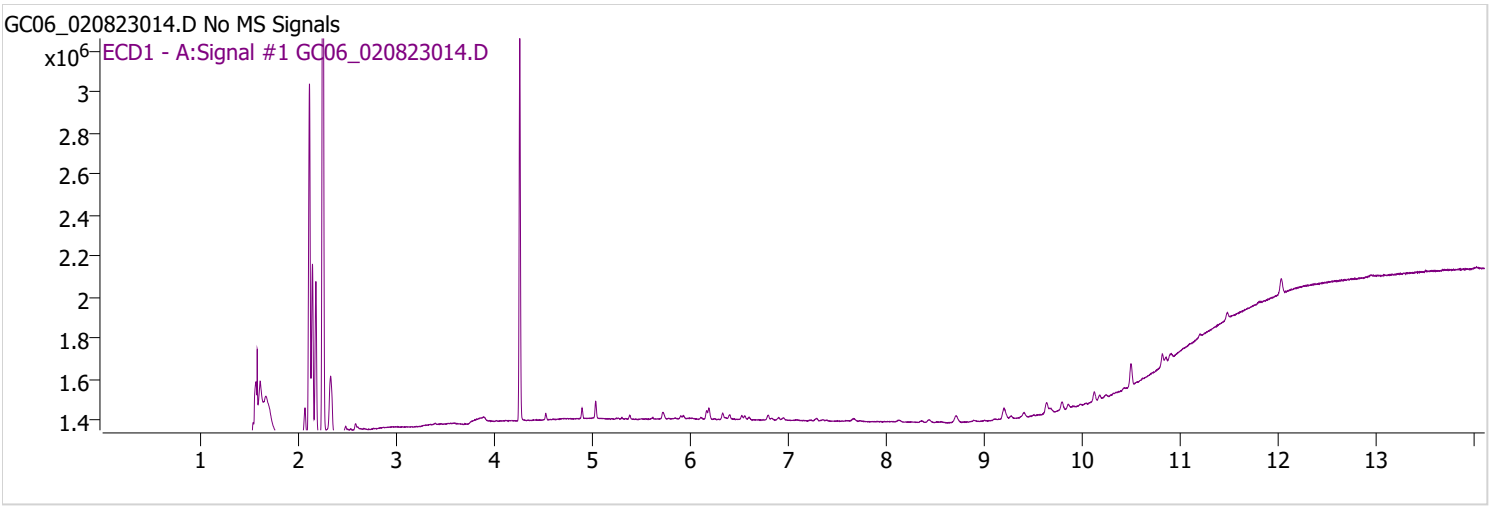
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	447.8	ug/L	-10	15	
Aroclor-1260	A	500.0	431.8	ug/L	-14	15	
Aroclor-1016	B	500.0	456.2	ug/L	-9	15	
Aroclor-1260	B	500.0	450.0	ug/L	-10	15	

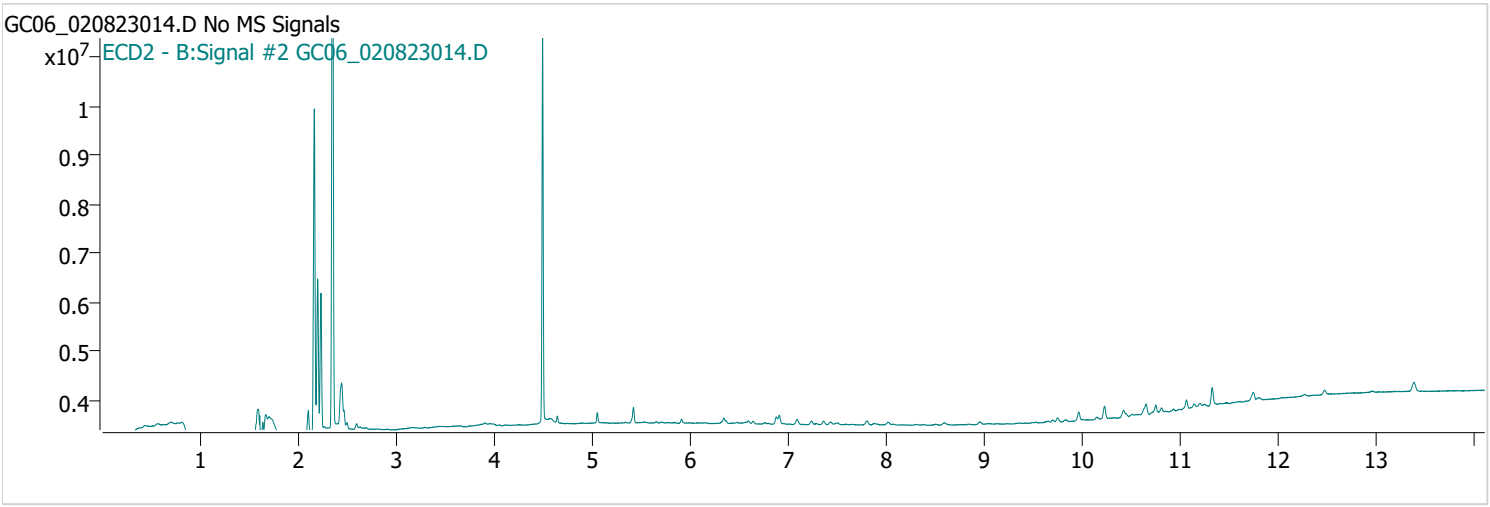
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Analyst: TRN 02/09/23 **Reviewer:** LW 02/09/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_020823014.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/8/2023 6:23:02 PM
Sample Name	ICAL, S17807	Instrument	SVOA-GC06
Vial	10	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	020823PCBICAL.batch.bin	Last Calib Update	2/9/2023 1:50:24 PM
Ref Library			



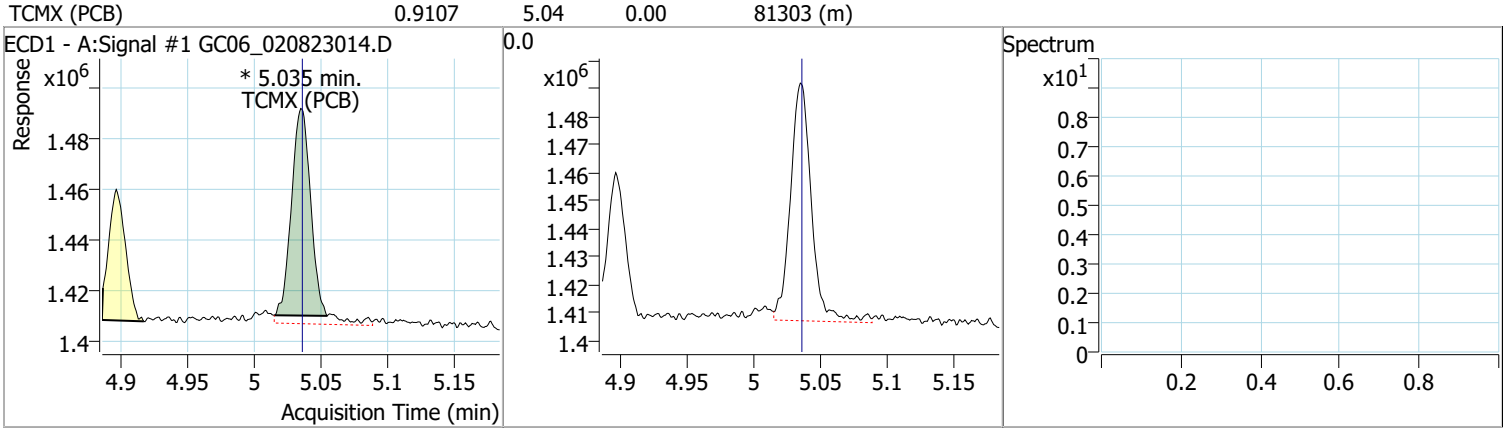


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.260	0.0	1697290.906	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.493	0.0	7006766.161	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.035	0.0	81303.325	0.9107	ng/ml	m	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 4.55%		*	
S TCMX (PCB) #2	5.421	0.0	418439.490	1.1760	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 5.88%		*	
S Decachlorobiphenyl (PCB)	12.034	0.0	147905.318	1.1422	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 5.71%		*	
S Decachlorobiphenyl (PCB) #2	13.393	0.0	475470.054	1.1240	ng/ml		0.005
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 5.62%		*	
Target Compounds							**QValue**
T AR1016 1	5.382	0.0	20096.612	10.9937	ng/ml	m	100
T AR1016 2	5.723	0.0	57906.277	0.0000	ng/ml	m	100
T AR1016 1 #2	5.911	0.0	115344.669	15.7563	ng/ml		100

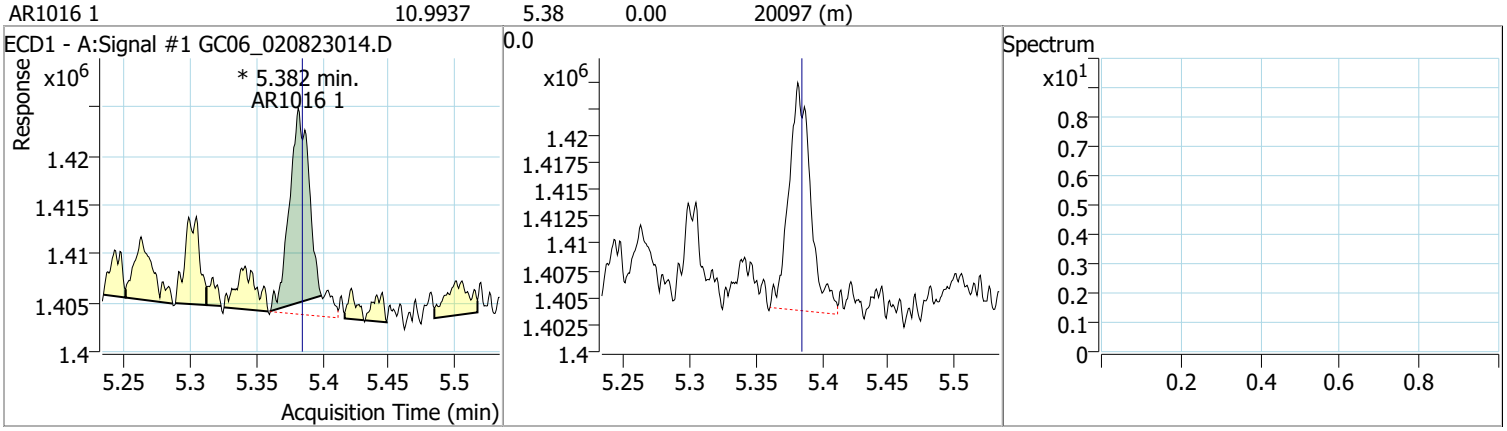
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 3	6.191	0.0	73238.600	13.8047	ng/ml		100
T AR1016 4	6.331	0.0	58053.649	14.1949	ng/ml		100
T AR1016 2 #2	6.343	0.0	243450.903	14.2289	ng/ml	m	100
T AR1016 5	6.528	0.0	28762.755	14.4252	ng/ml		100
T AR1016 3 #2	6.908	0.0	294585.323	14.0715	ng/ml		100
T AR1016 4 #2	7.093	0.0	205279.757	13.7513	ng/ml	m	100
T AR1016 5 #2	7.808	0.0	157388.275	13.0111	ng/ml		100
T AR1260 1	8.717	0.0	92343.764	13.4406	ng/ml		100
T AR1260 2	9.204	0.0	133798.247	13.9656	ng/ml		100
T AR1260 3	9.638	0.0	153514.867	14.2008	ng/ml		100
T AR1260 1 #2	9.968	0.0	311358.969	14.0806	ng/ml		100
T AR1260 4	10.125	0.0	76498.571	13.4169	ng/ml		100
T AR1260 2 #2	10.230	0.0	457776.476	17.5426	ng/ml		100
T AR1260 3 #2	10.654	0.0	486261.125	14.2933	ng/ml		100
T AR1260 5	10.820	0.0	75688.165	11.6601	ng/ml		100
T AR1260 4 #2	11.068	0.0	264274.271	14.8063	ng/ml		100
T AR1260 5 #2	11.748	0.0	397709.863	0.0000	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

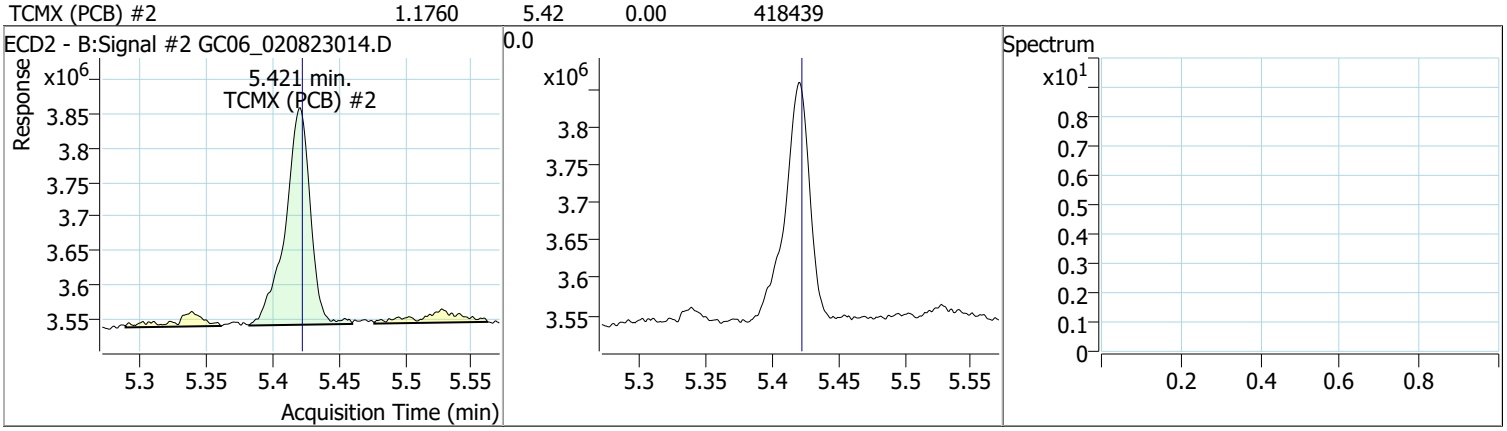
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	0.9107	5.04	0.00	81303 (m)				



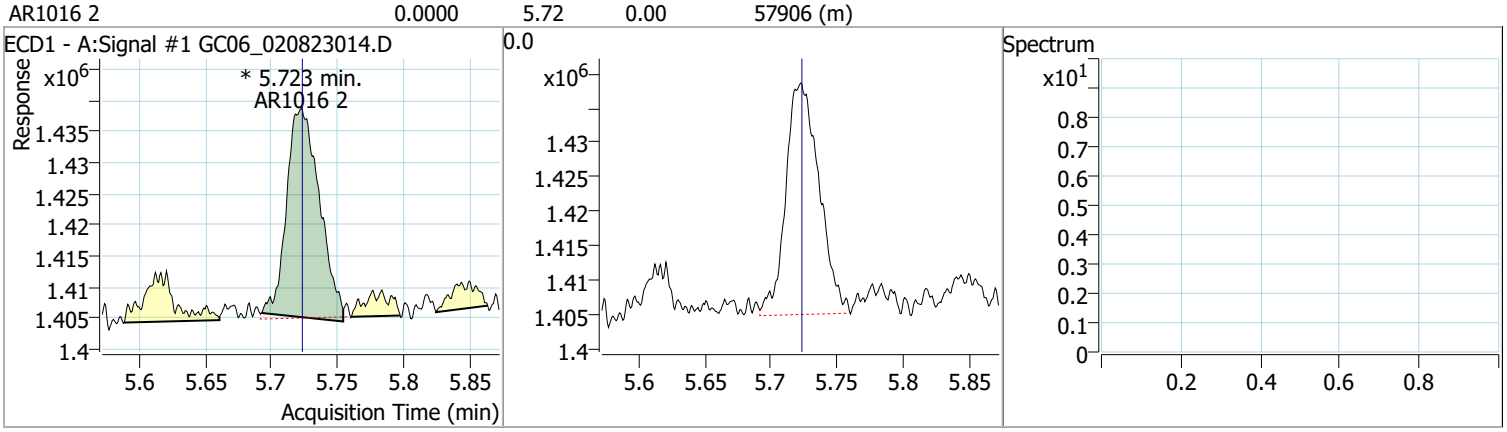
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	10.9937	5.38	0.00	20097 (m)				



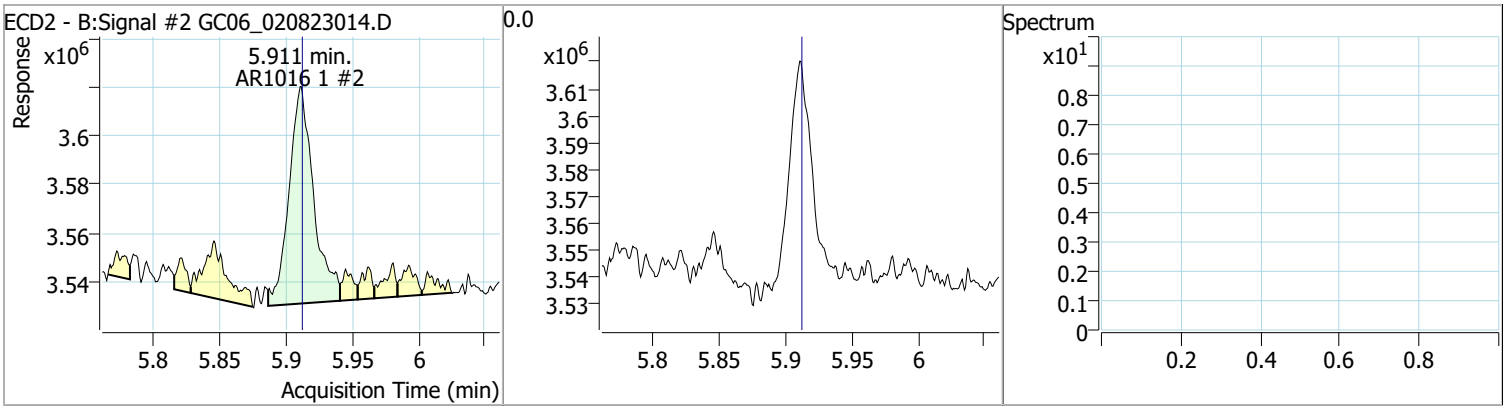
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	1.1760	5.42	0.00	418439				



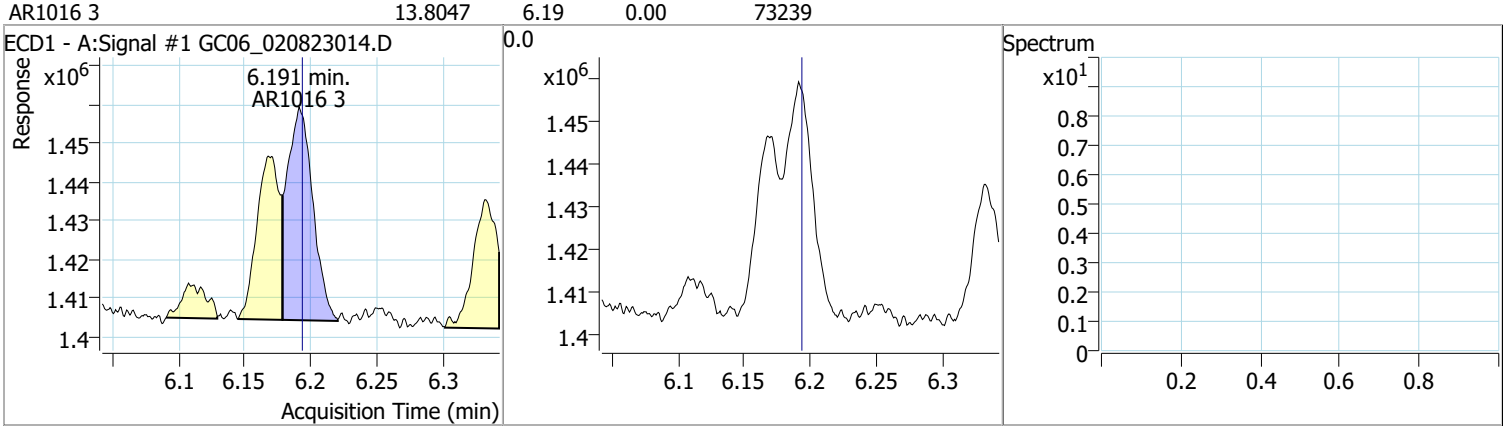
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.72	0.00	57906 (m)				



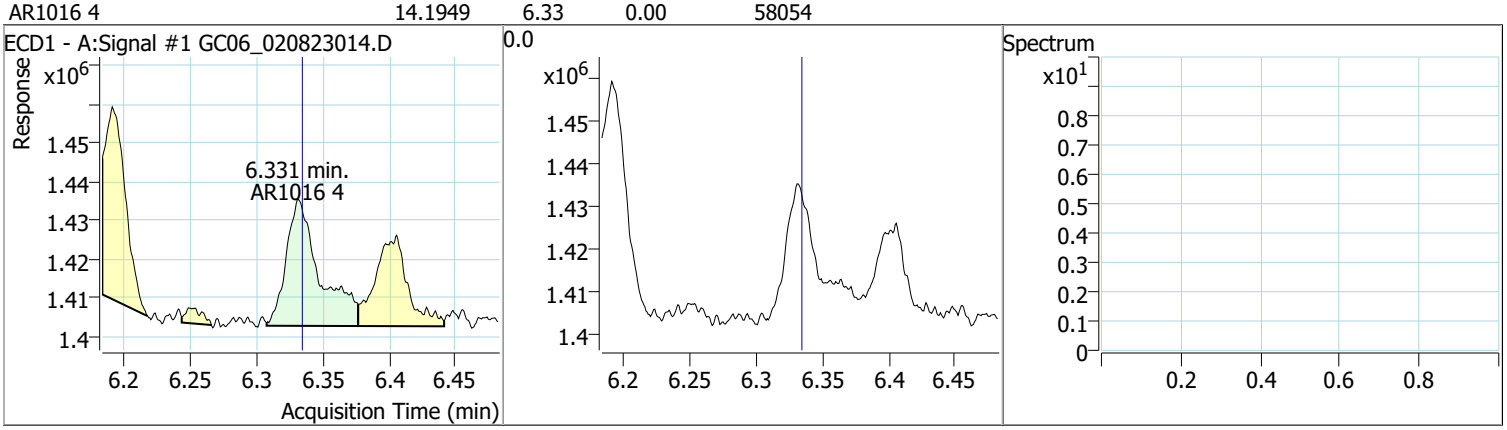
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	15.7563	5.91	0.00	115345				



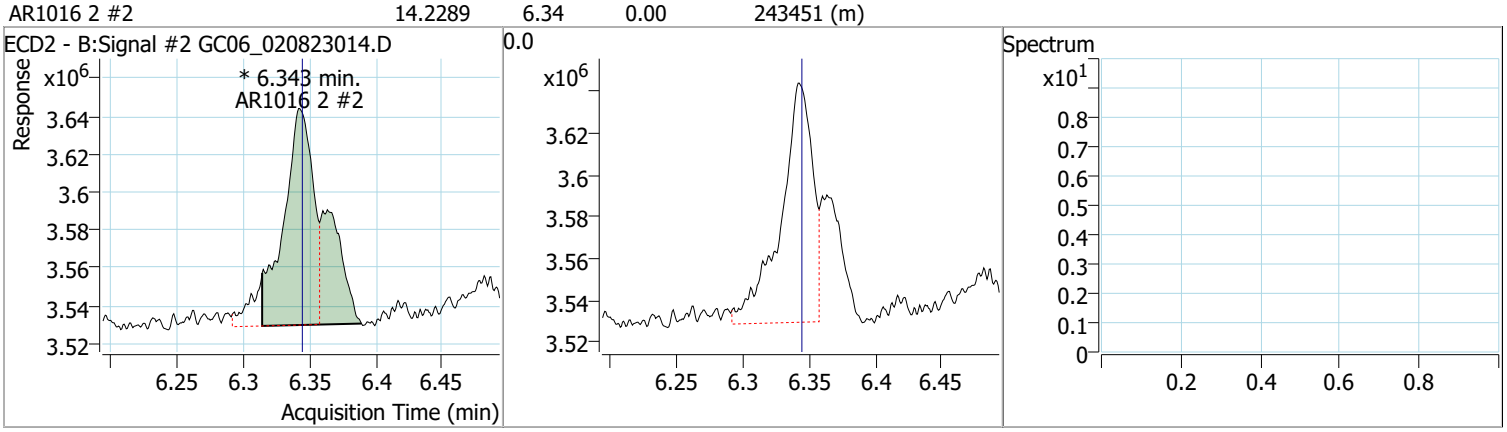
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	13.8047	6.19	0.00	73239				



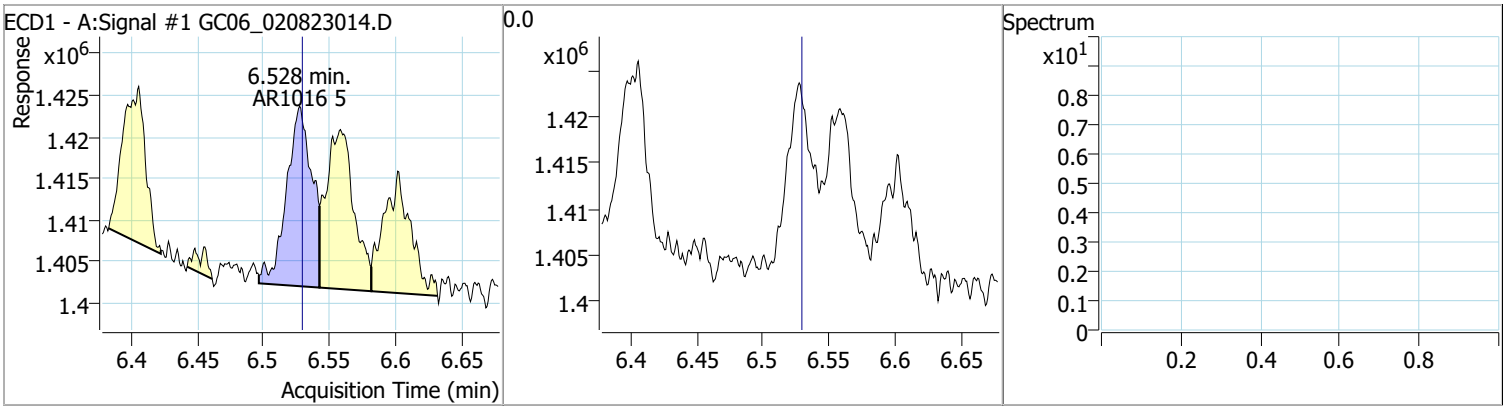
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	14.1949	6.33	0.00	58054				



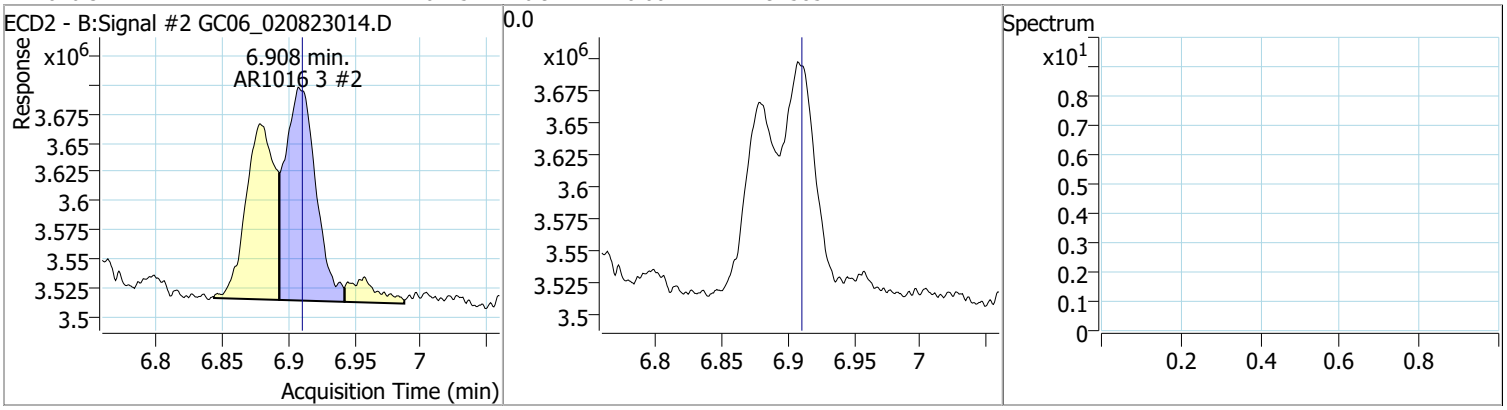
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	14.2289	6.34	0.00	243451 (m)				



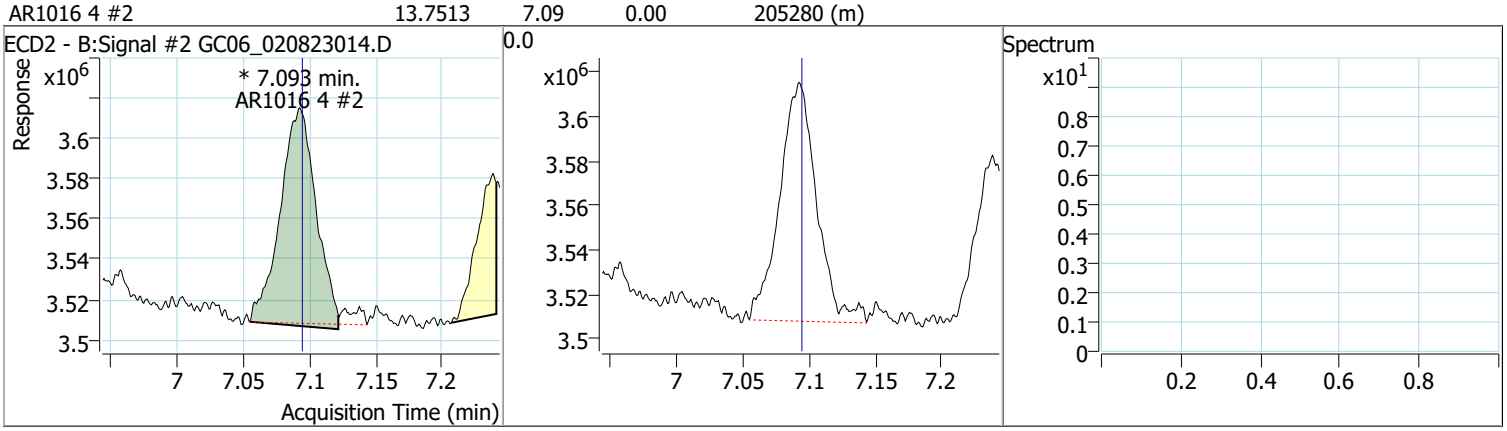
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	14.4252	6.53	0.00	28763				



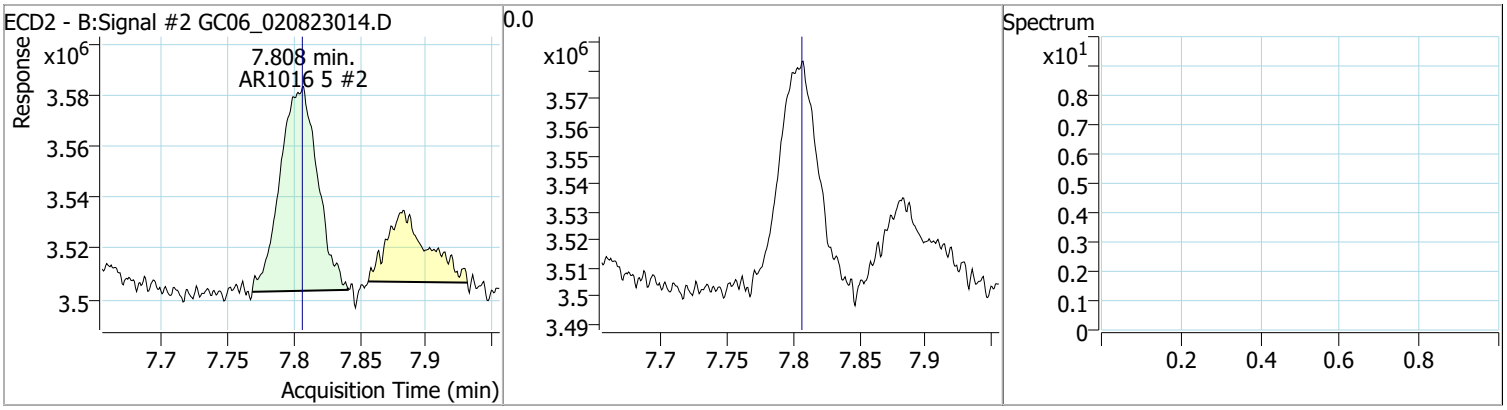
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AR1016 3 #2	14.0715	6.91	0.00	294585				



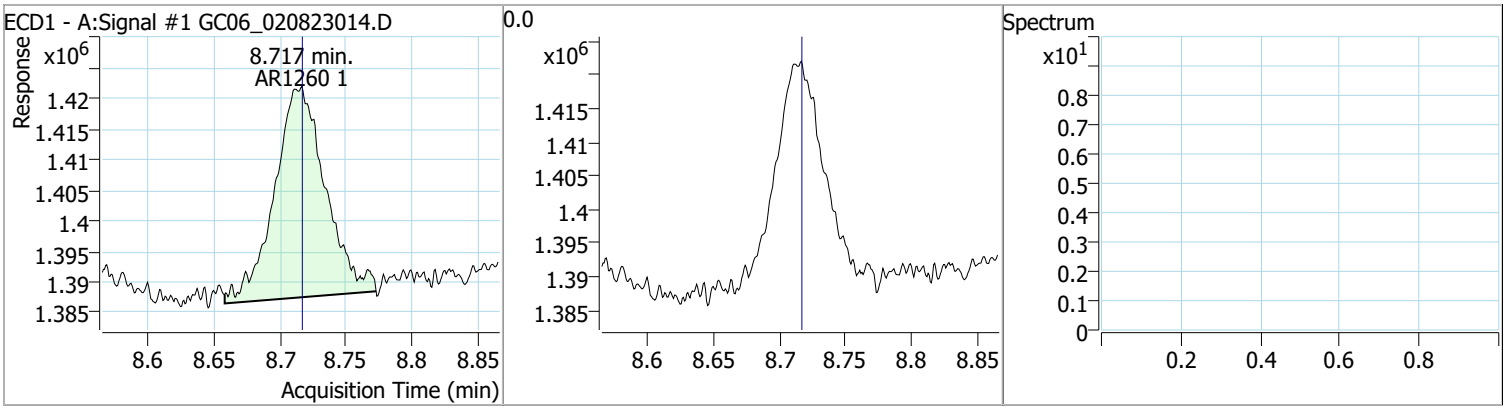
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AR1016 4 #2	13.7513	7.09	0.00	205280 (m)				



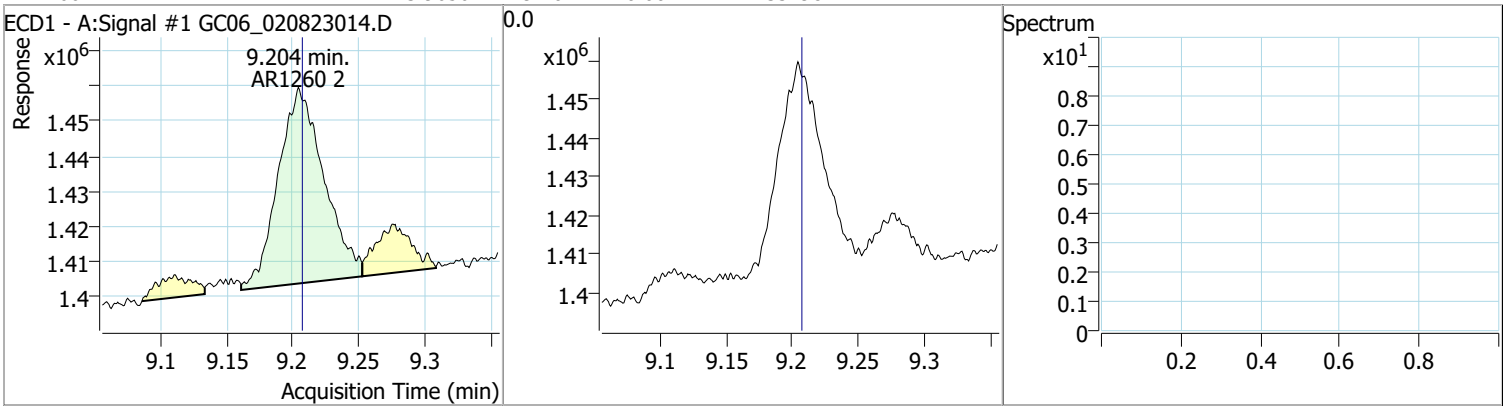
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AR1016 5 #2	13.0111	7.81	0.00	157388				



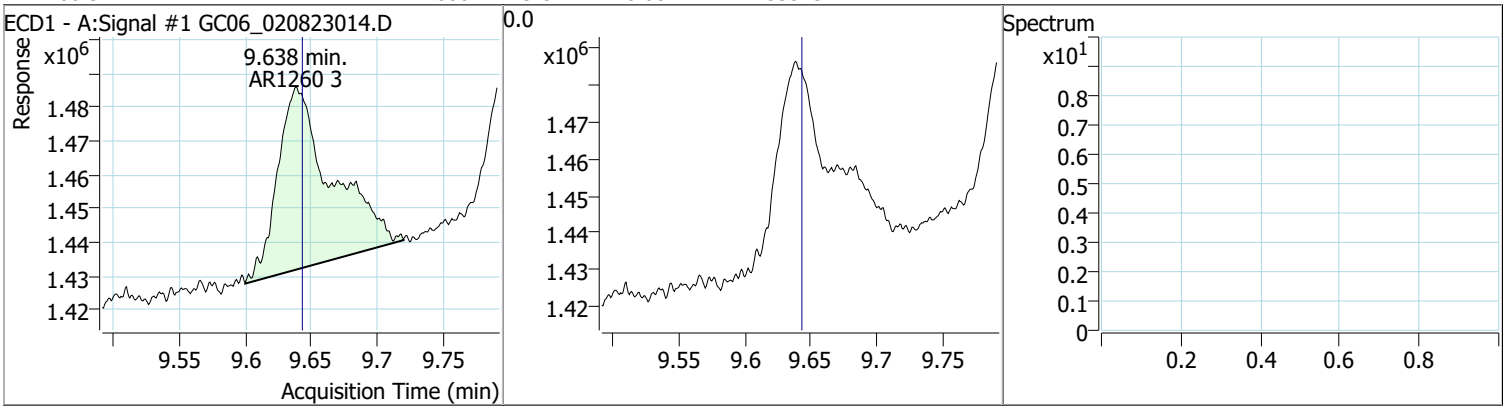
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	13.4406	8.72	0.00	92344				



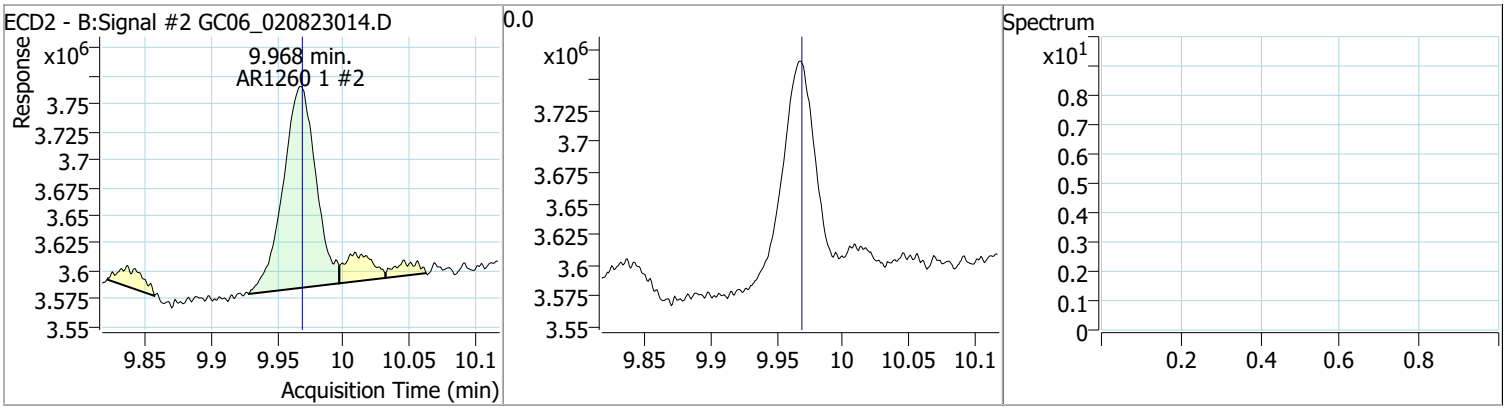
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	13.9656	9.20	0.00	133798				



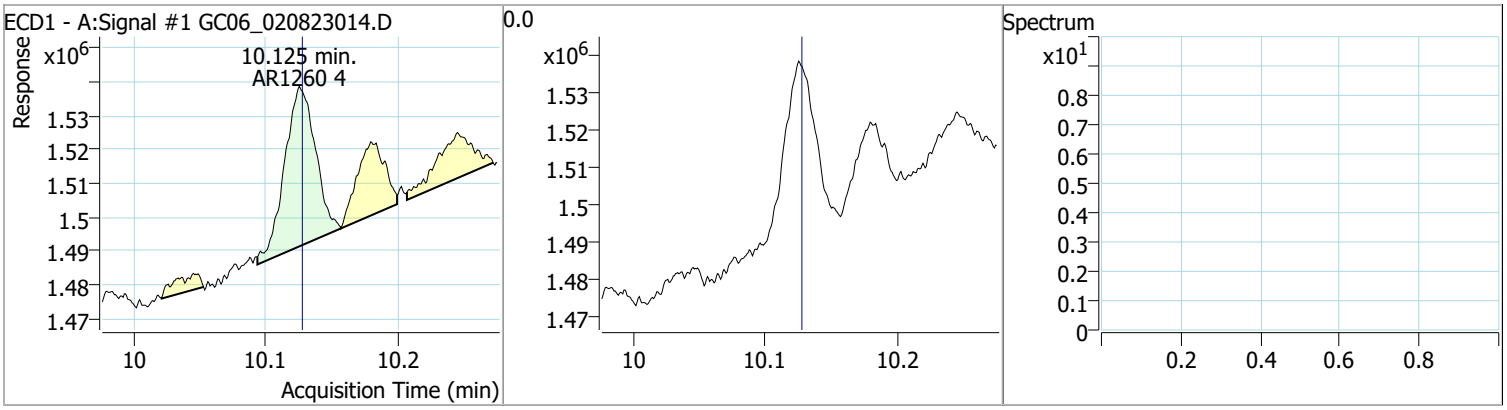
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	14.2008	9.64	0.00	153515				



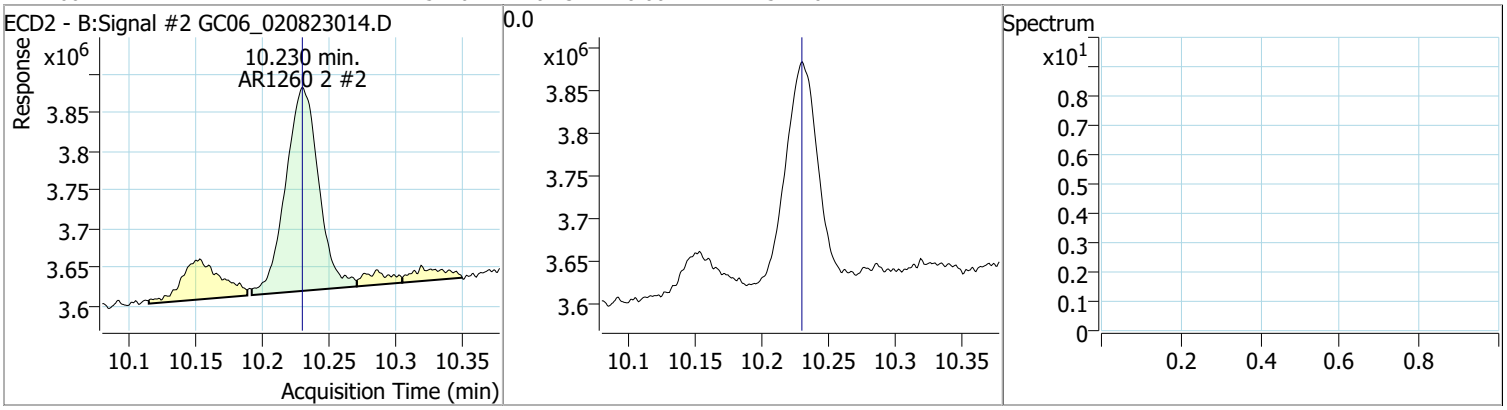
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	14.0806	9.97	0.00	311359				



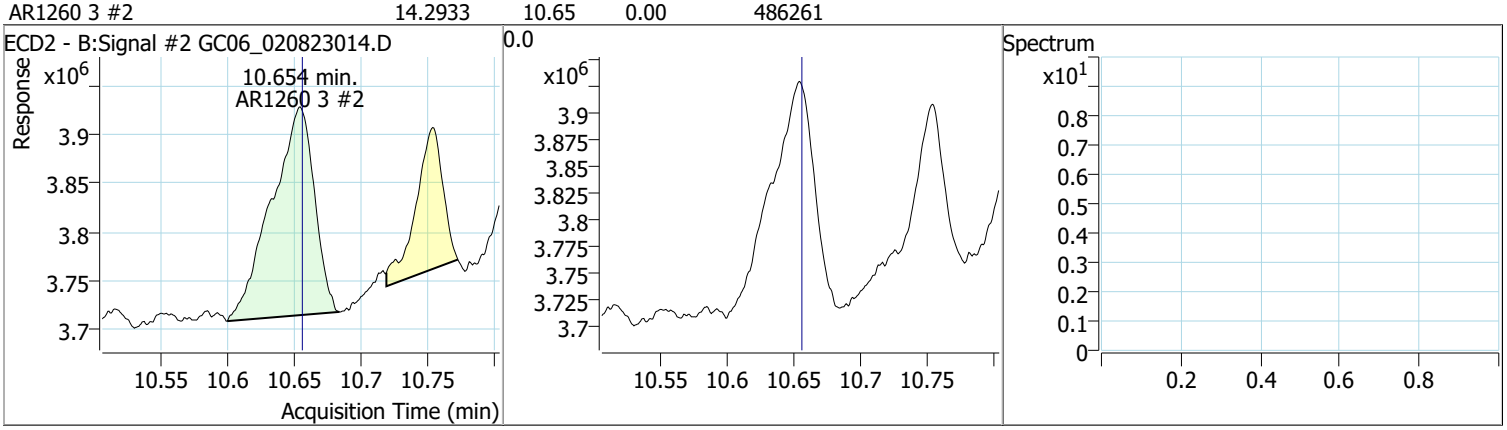
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	13.4169	10.13	0.00	76499				



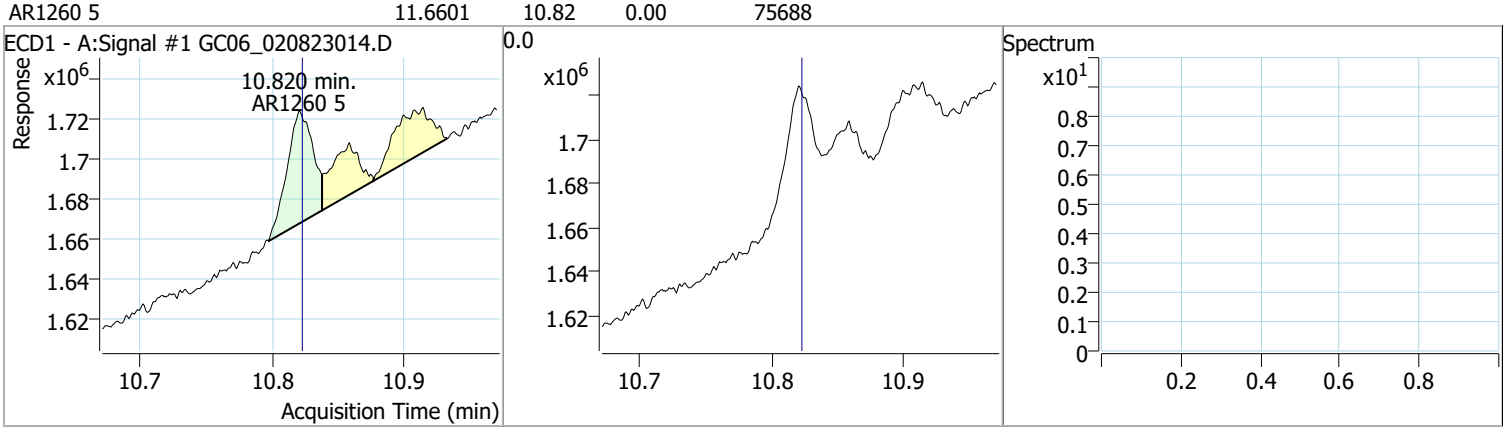
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	17.5426	10.23	0.00	457776				



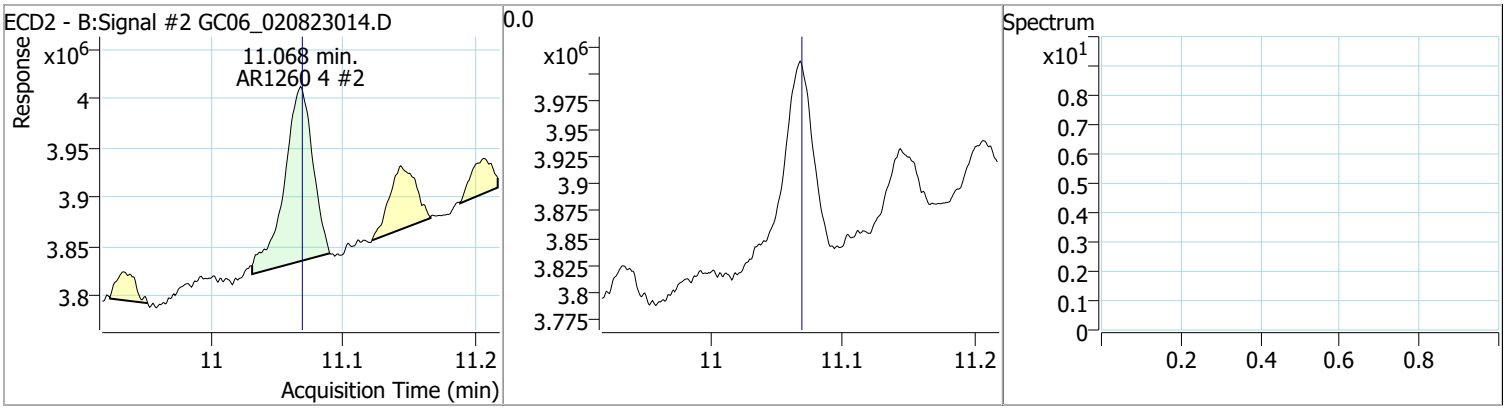
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	14.2933	10.65	0.00	486261				



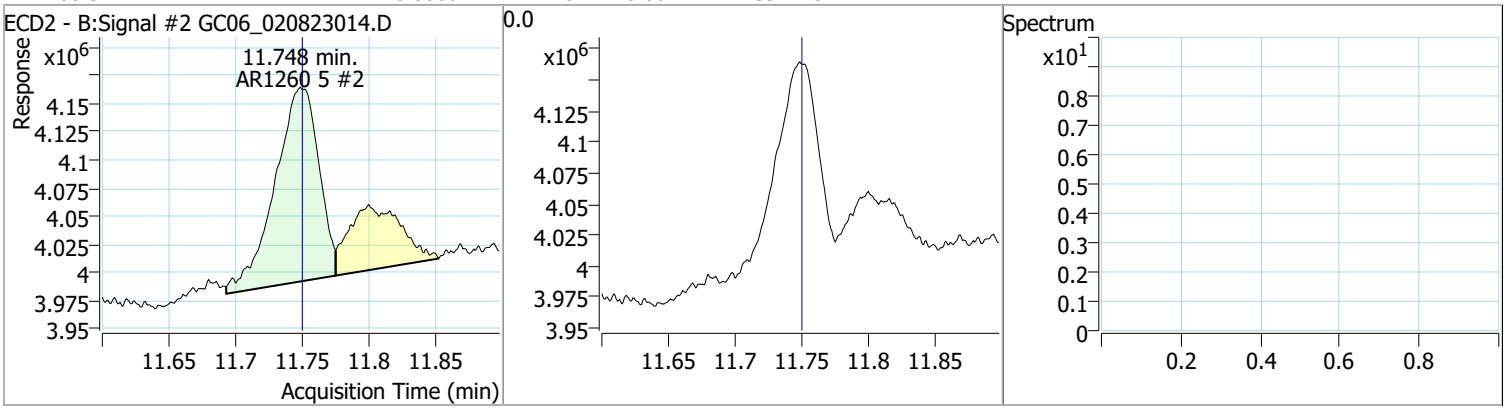
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	11.6601	10.82	0.00	75688				



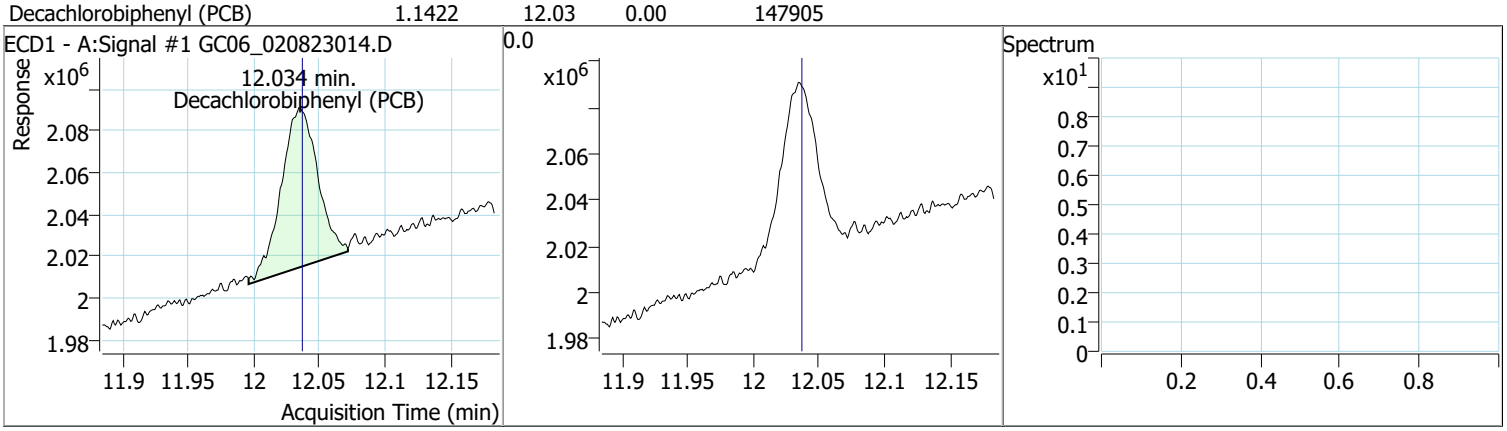
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	14.8063	11.07	0.00	264274				



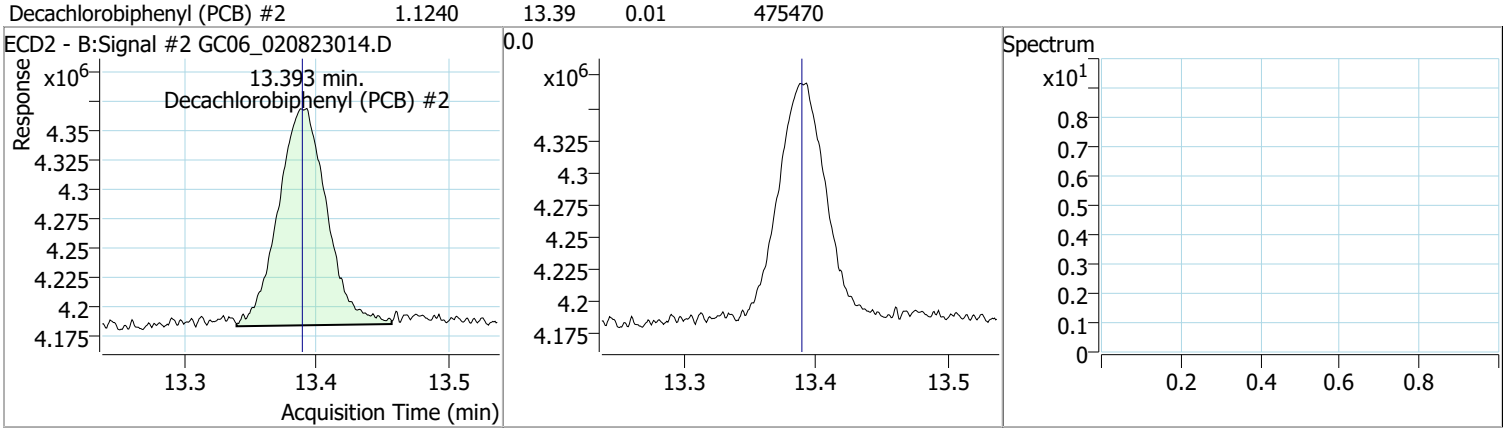
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	0.0000	11.75	0.00	397710				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	1.1422	12.03	0.00	147905				

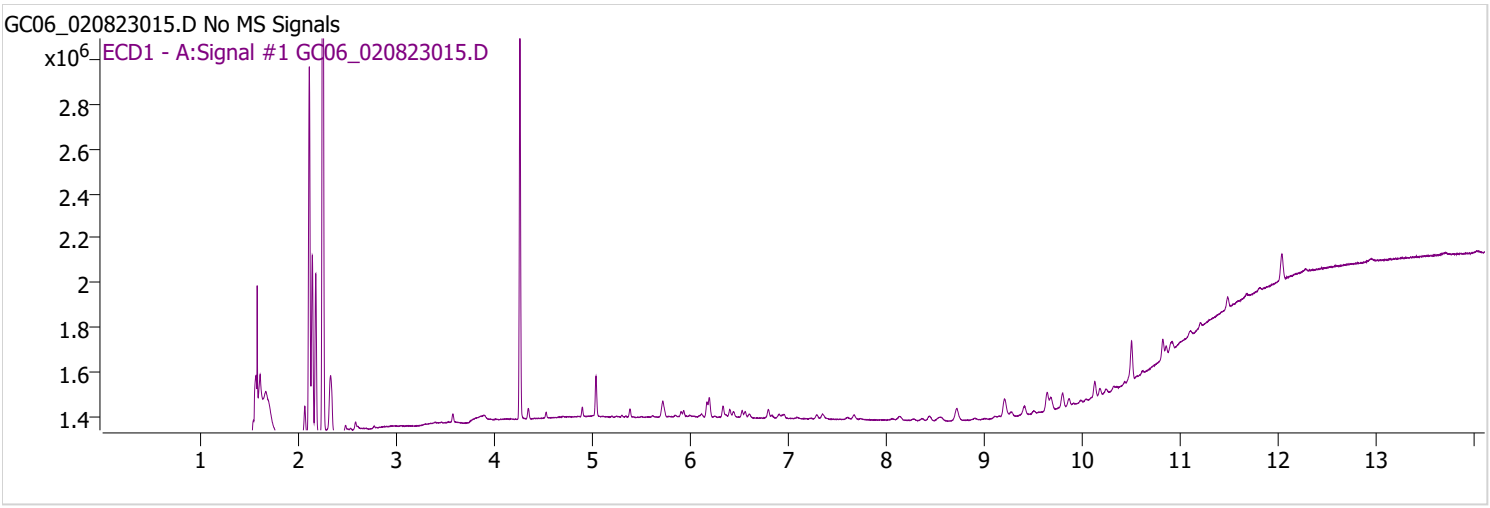


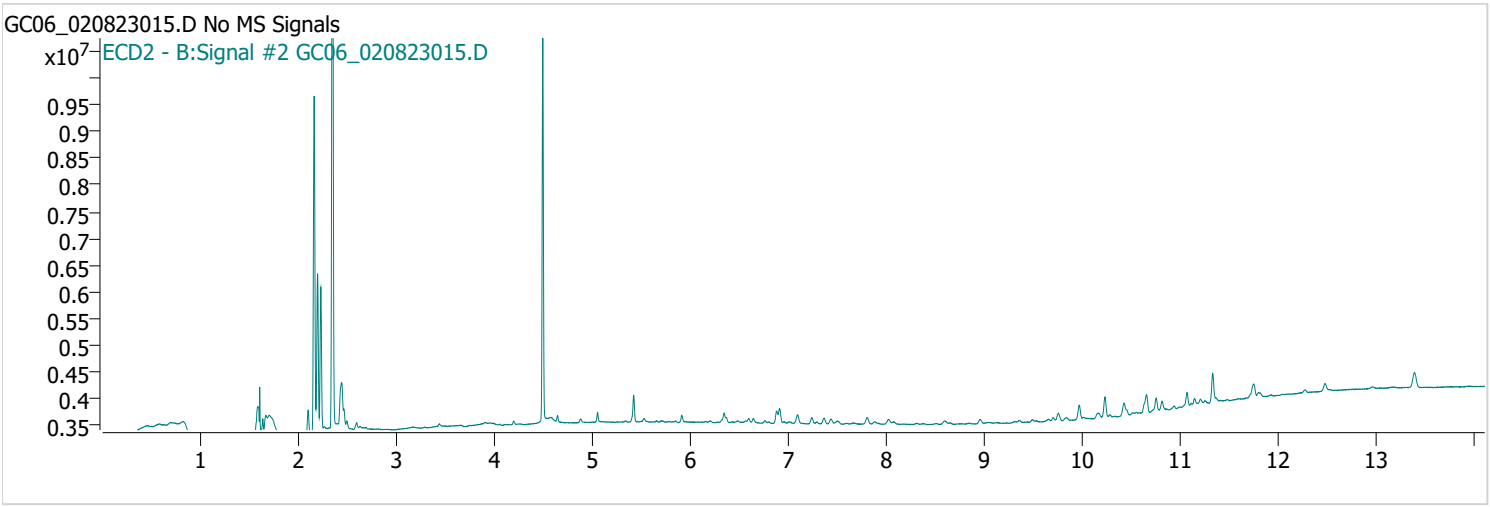
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	1.1240	13.39	0.01	475470				



Quantitation Results Report (Not Reviewed)

Data File	GC06_020823015.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/8/2023 6:41:23 PM
Sample Name	ICAL, S17797	Instrument	SVOA-GC06
Vial	11	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	020823PCBICAL.batch.bin	Last Calib Update	2/9/2023 1:50:24 PM
Ref Library			



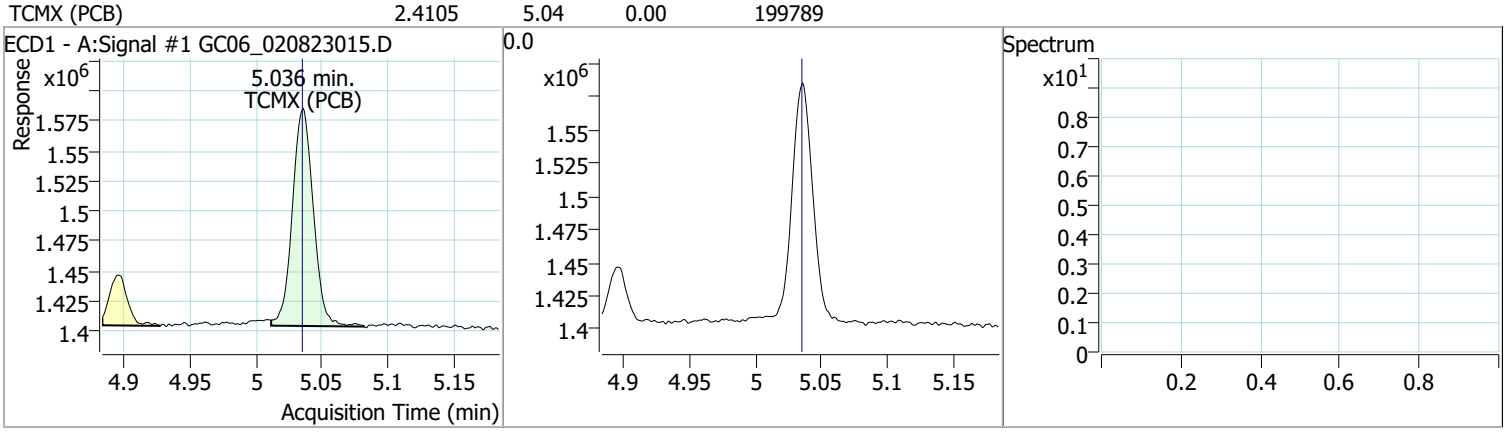


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.259	0.0	1575791.961	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.493	0.0	6538997.395	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.036	0.0	199789.067	2.4105	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 12.05%		*	
S TCMX (PCB) #2	5.421	0.0	610711.207	1.8392	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 9.20%		*	
S Decachlorobiphenyl (PCB)	12.037	0.0	221759.763	1.8445	ng/ml		0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 9.22%		*	
S Decachlorobiphenyl (PCB) #2	13.391	0.0	715165.606	1.8116	ng/ml		0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 9.06%		*	
Target Compounds							QValue
T AR1016 1	5.383	0.0	41927.317	24.7044	ng/ml		100
T AR1016 2	5.718	0.0	121106.500	0.0000	ng/ml	m	100
T AR1016 1 #2	5.911	0.0	183489.764	26.8581	ng/ml		100

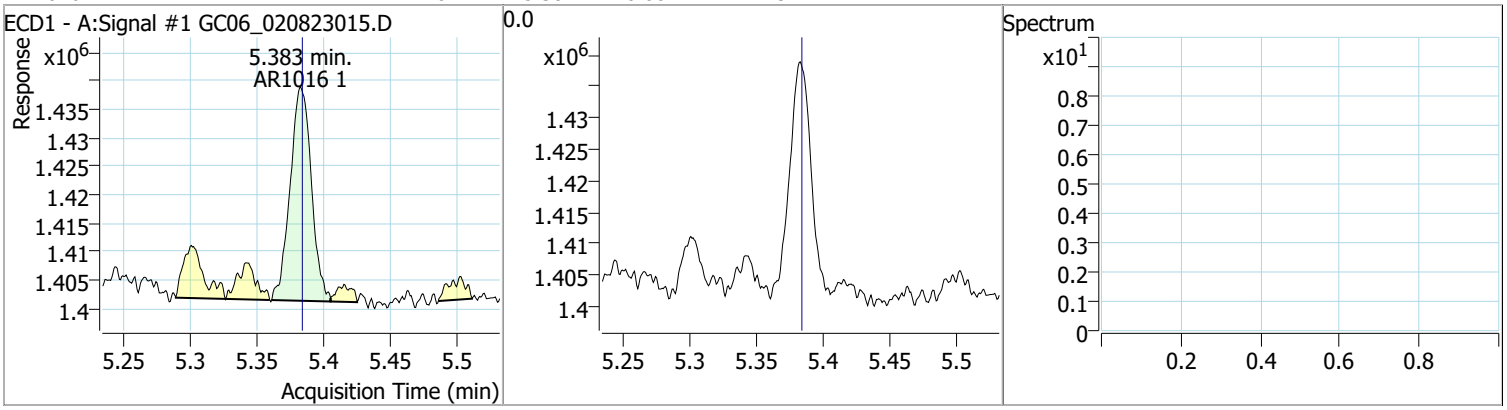
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 3	6.193	0.0	122182.662	24.8058	ng/ml		100
T AR1016 4	6.332	0.0	87140.028	22.9497	ng/ml	m	100
T AR1016 2 #2	6.343	0.0	373577.299	23.3963	ng/ml	m	100
T AR1016 5	6.528	0.0	37393.254	20.1996	ng/ml		100
T AR1016 3 #2	6.908	0.0	448822.169	22.9726	ng/ml		100
T AR1016 4 #2	7.091	0.0	305867.431	21.9551	ng/ml	m	100
T AR1016 5 #2	7.802	0.0	247271.333	21.9040	ng/ml		100
T AR1260 1	8.719	0.0	146080.152	22.9013	ng/ml		100
T AR1260 2	9.203	0.0	205696.432	23.1256	ng/ml		100
T AR1260 3	9.640	0.0	279349.911	27.8335	ng/ml	m	100
T AR1260 1 #2	9.965	0.0	482060.410	23.3597	ng/ml		100
T AR1260 4	10.127	0.0	116312.325	21.9727	ng/ml		100
T AR1260 2 #2	10.231	0.0	656273.477	26.9484	ng/ml		100
T AR1260 3 #2	10.654	0.0	739183.541	23.2821	ng/ml		100
T AR1260 5	10.821	0.0	125872.000	20.8862	ng/ml		100
T AR1260 4 #2	11.068	0.0	382501.639	22.9632	ng/ml		100
T AR1260 5 #2	11.748	0.0	665668.223	0.0000	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

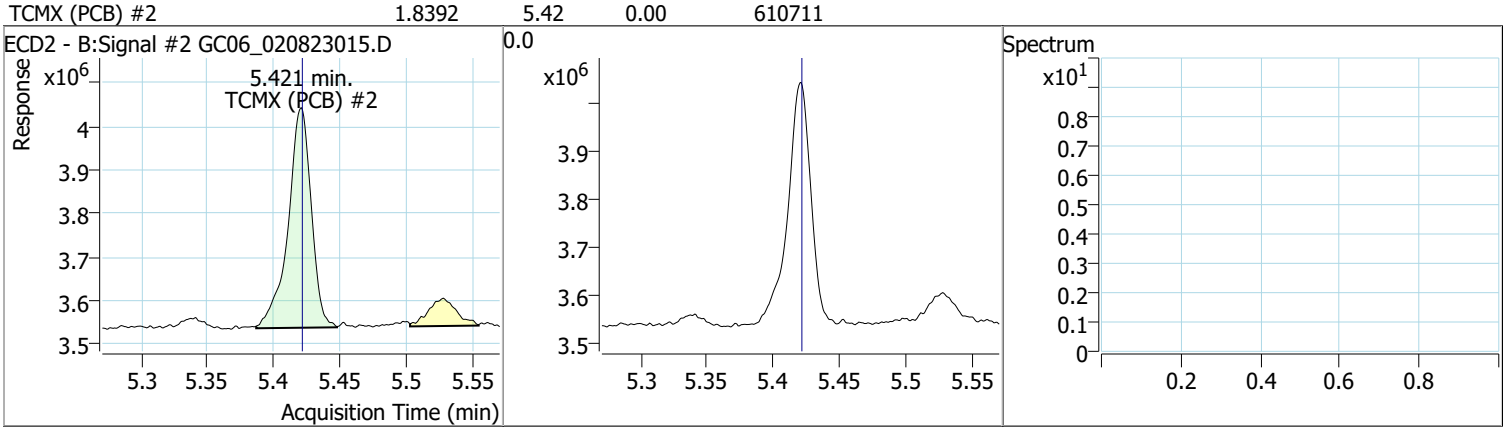
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	2.4105	5.04	0.00	199789				



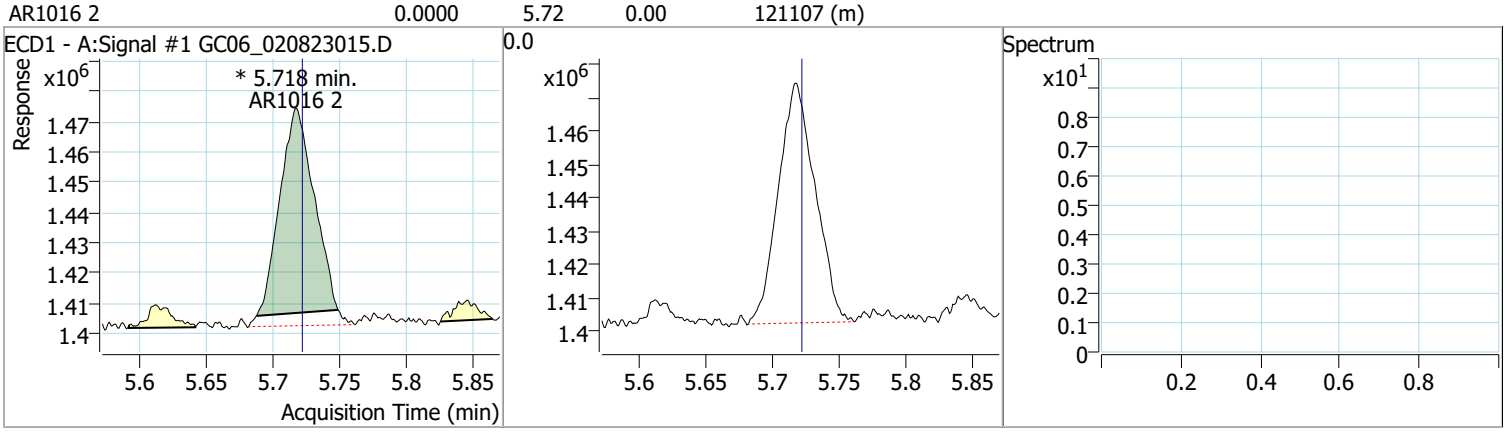
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	24.7044	5.38	0.00	41927				



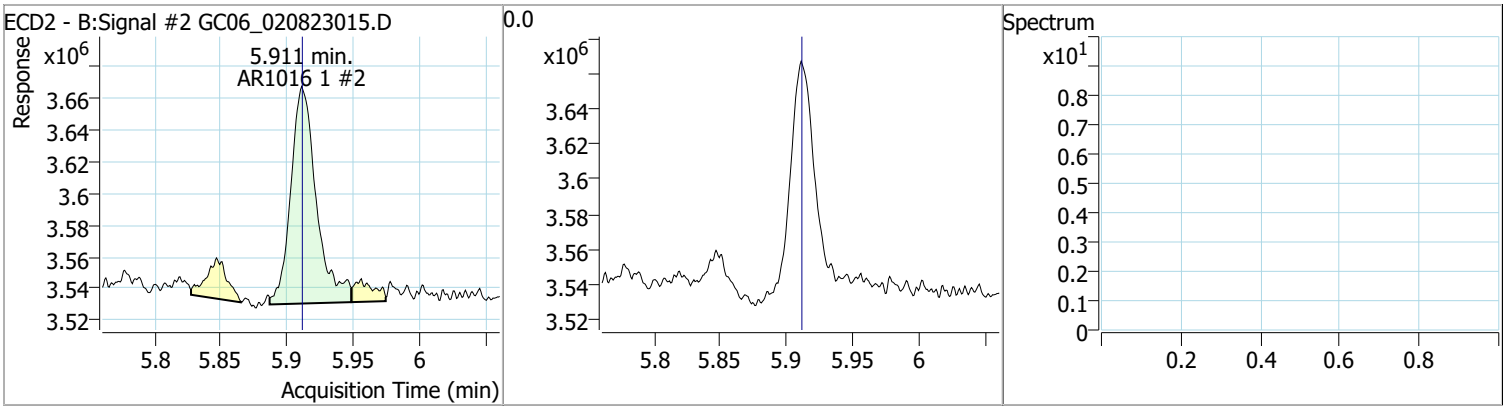
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	1.8392	5.42	0.00	610711				



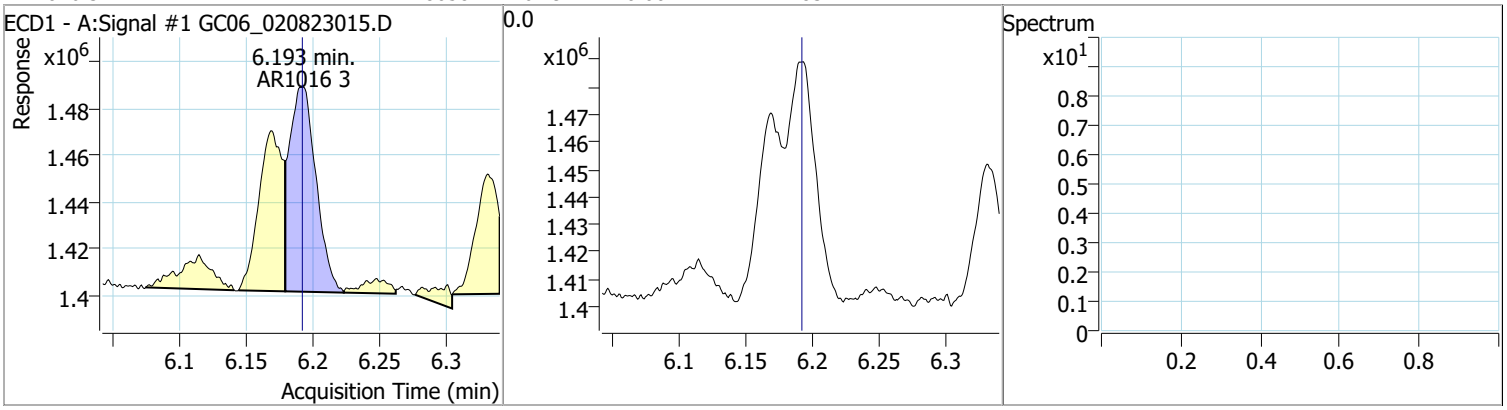
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.72	0.00	121107 (m)				



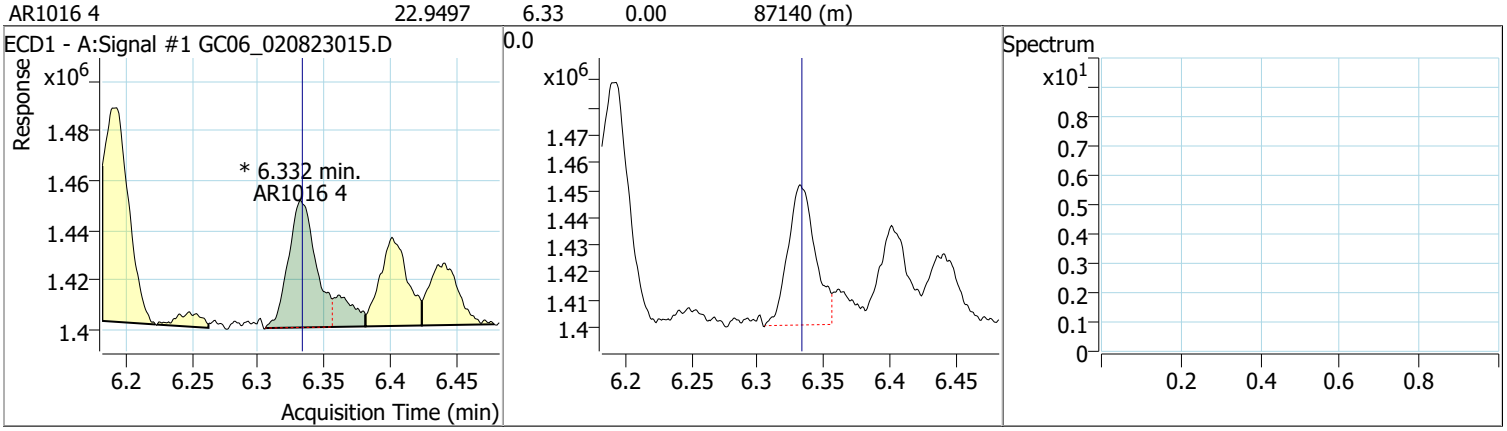
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AR1016 1 #2	26.8581	5.91	0.00	183490				



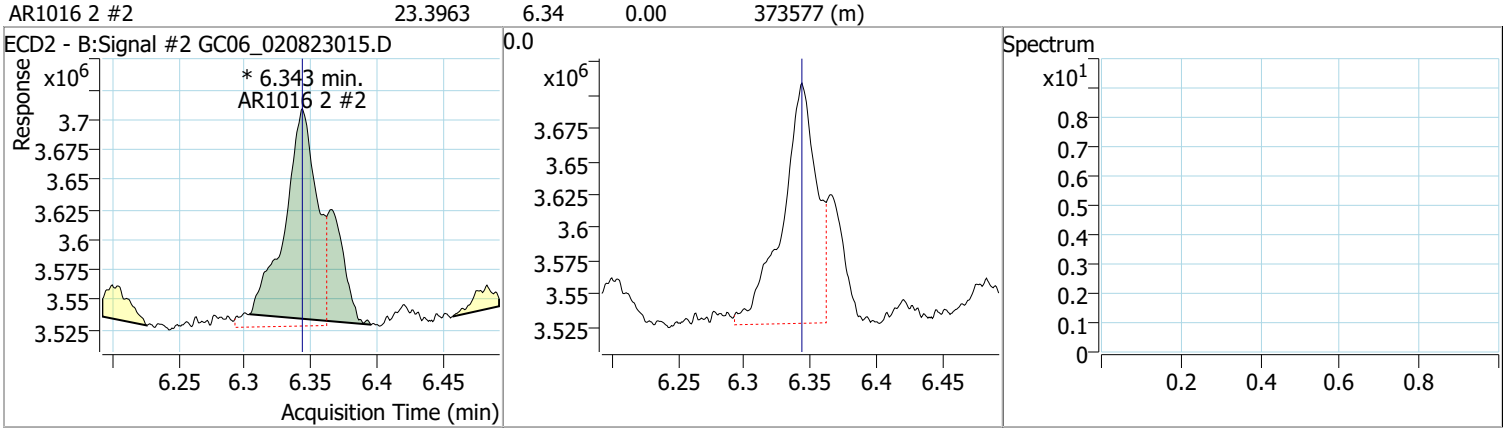
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	24.8058	6.19	0.00	122183				



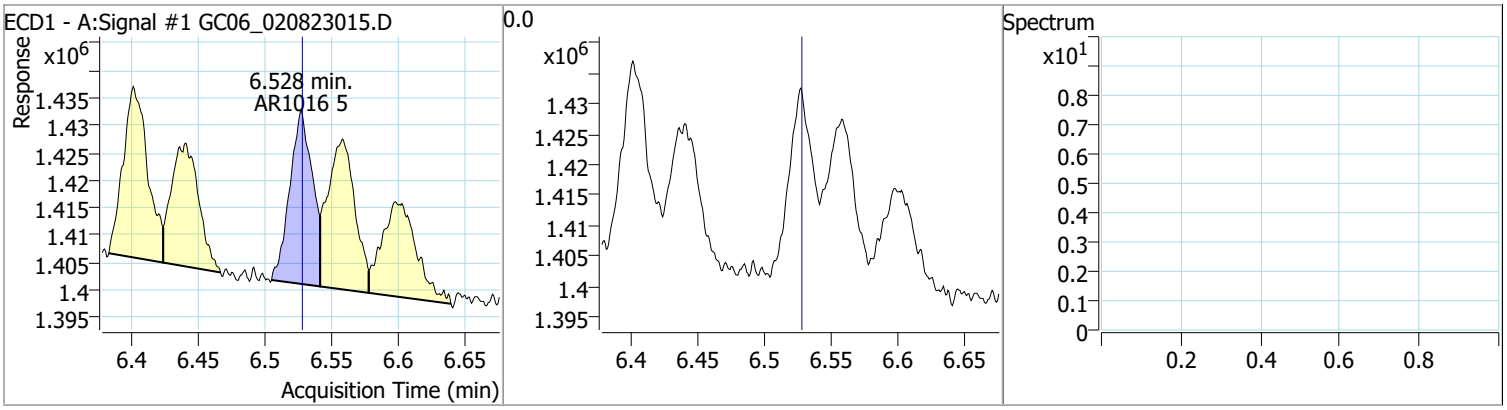
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	22.9497	6.33	0.00	87140 (m)				



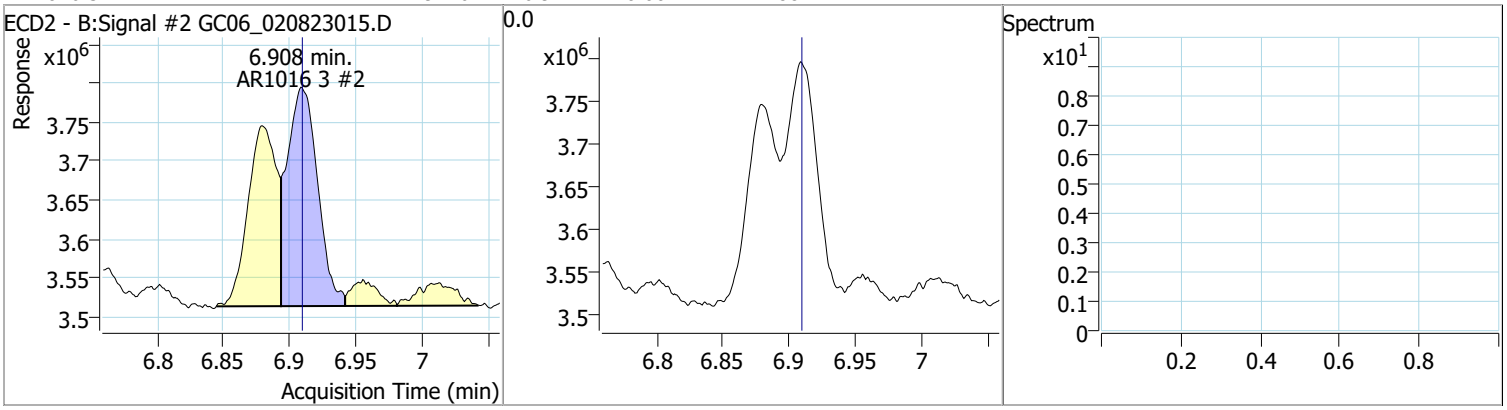
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	23.3963	6.34	0.00	373577 (m)				



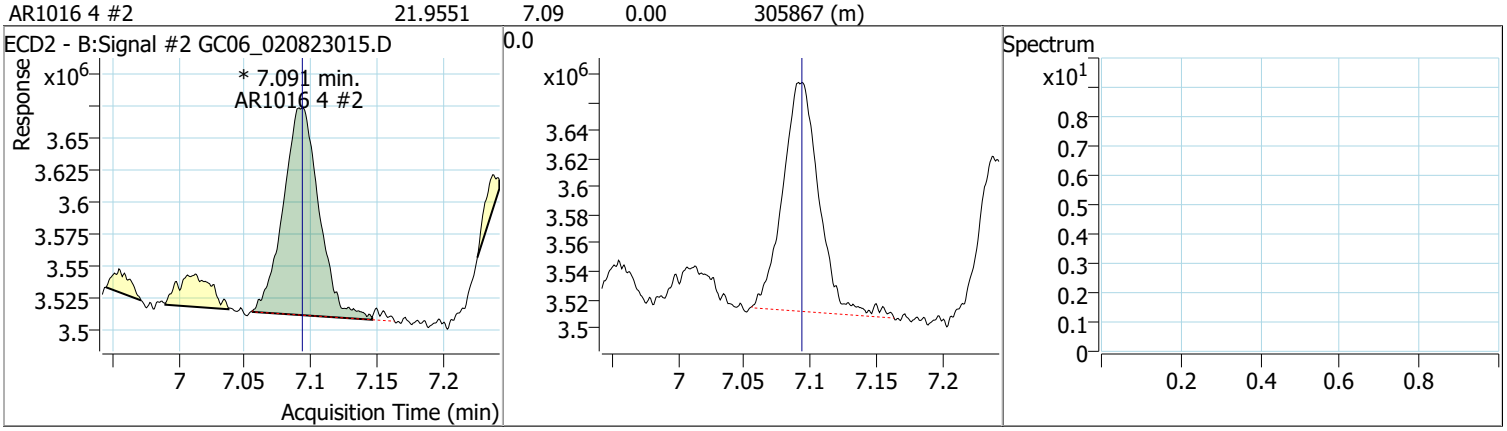
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	20.1996	6.53	0.00	37393				



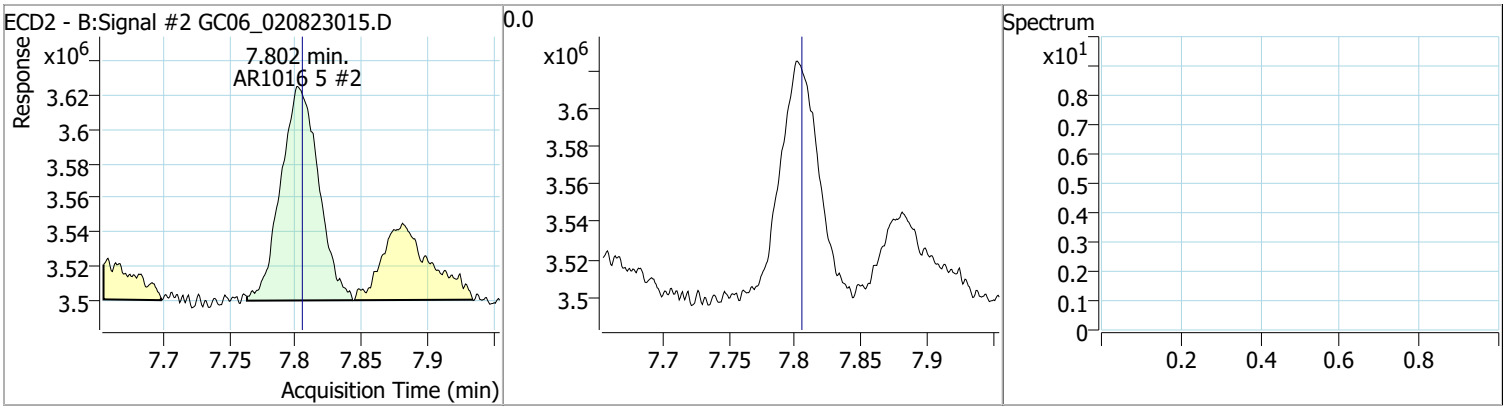
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AR1016 3 #2	22.9726	6.91	0.00	448822				



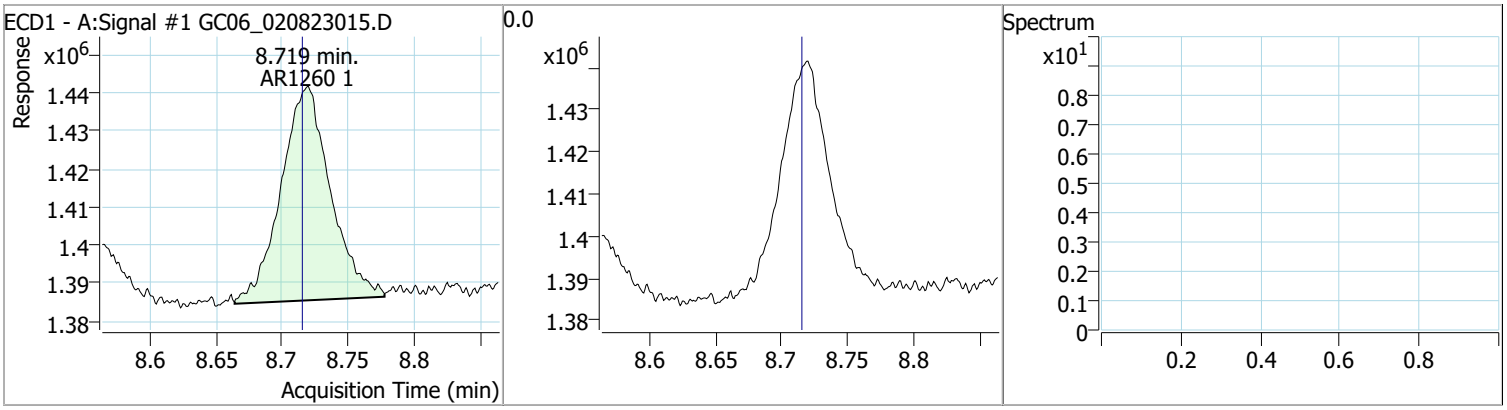
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	21.9551	7.09	0.00	305867 (m)				



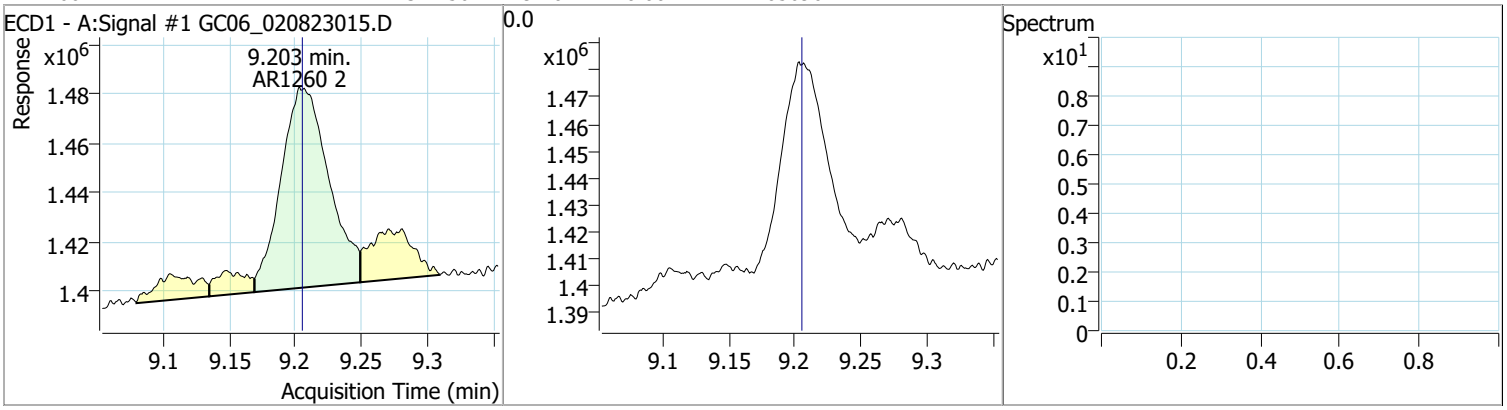
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	21.9040	7.80	0.00	247271				



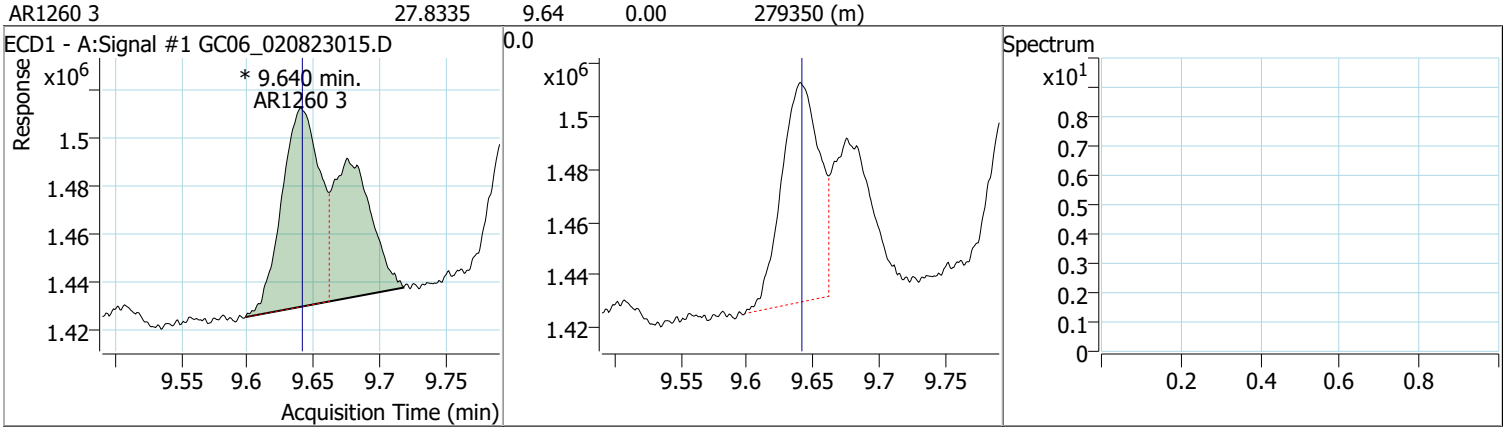
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	22.9013	8.72	0.01	146080				



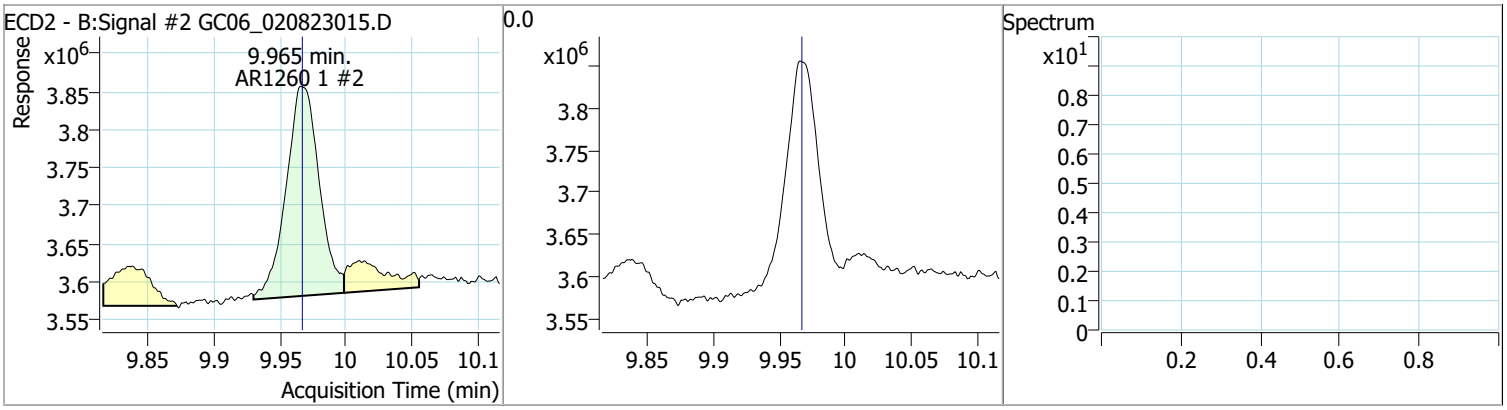
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	23.1256	9.20	0.00	205696				



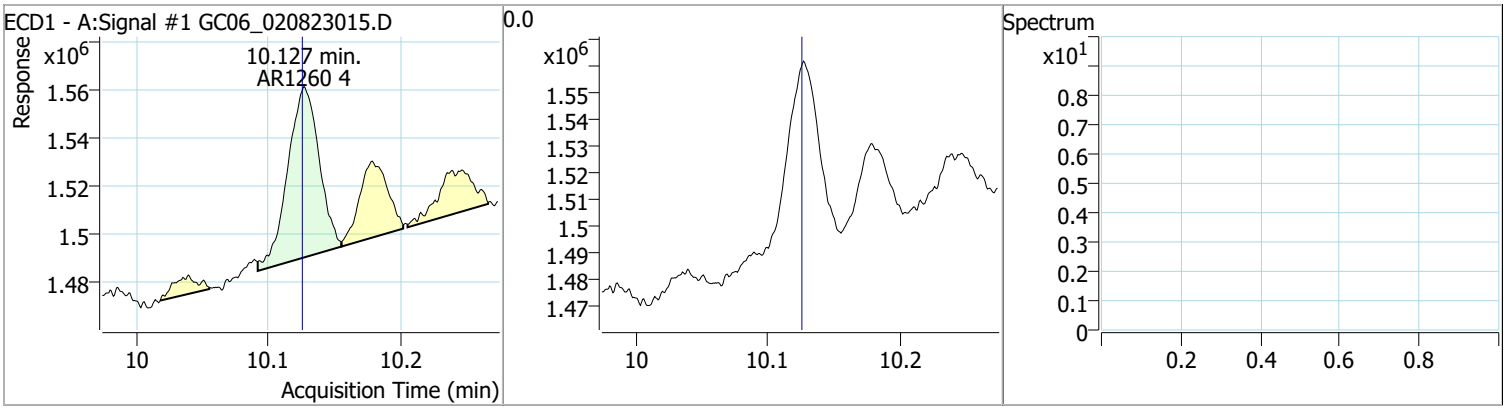
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	27.8335	9.64	0.00	279350 (m)				



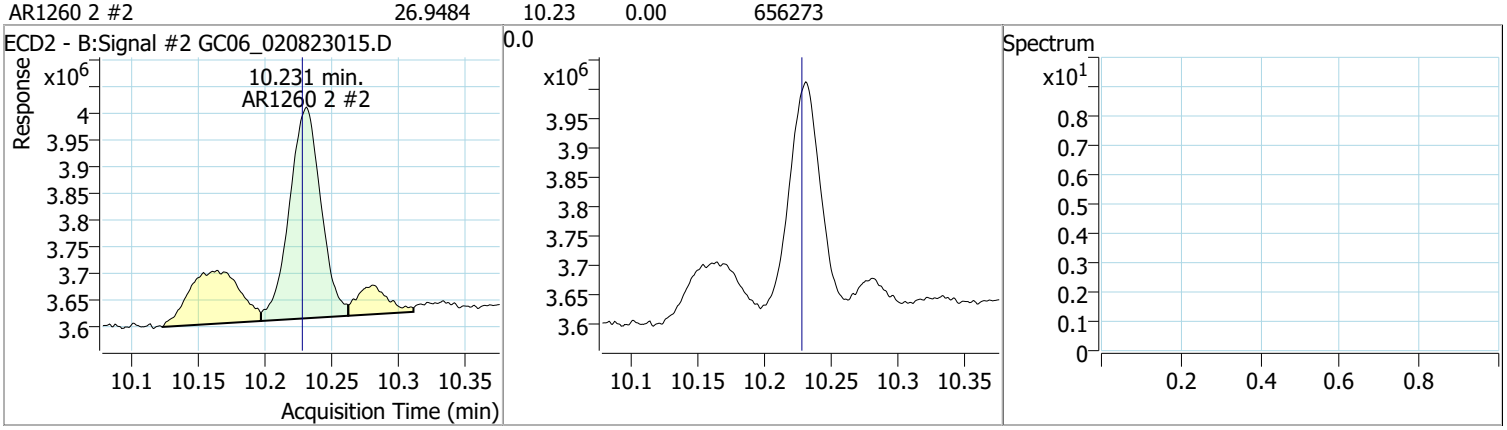
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	23.3597	9.97	0.00	482060				



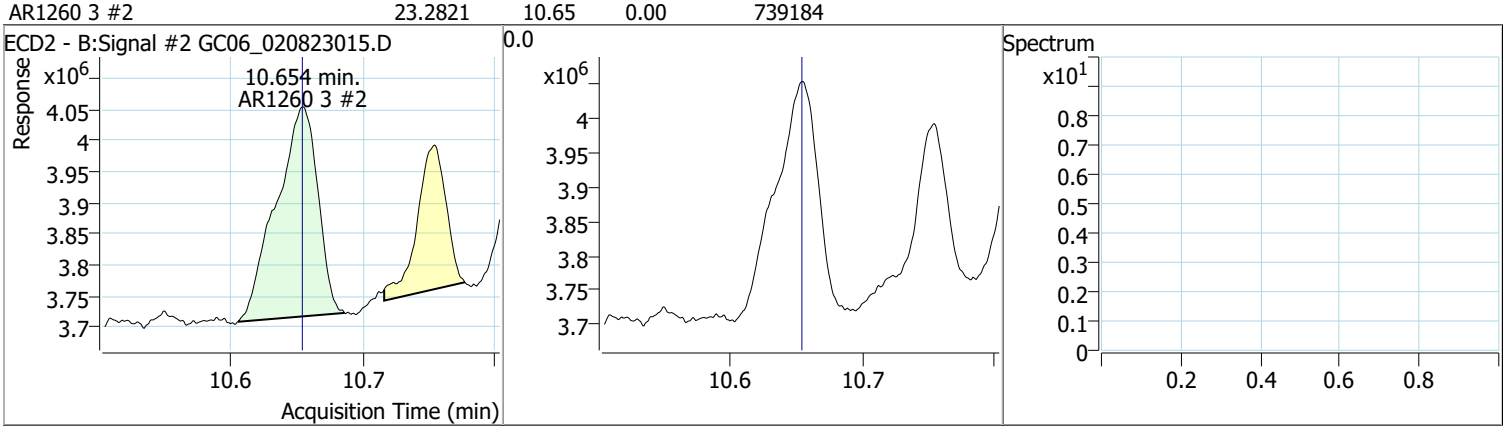
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	21.9727	10.13	0.00	116312				



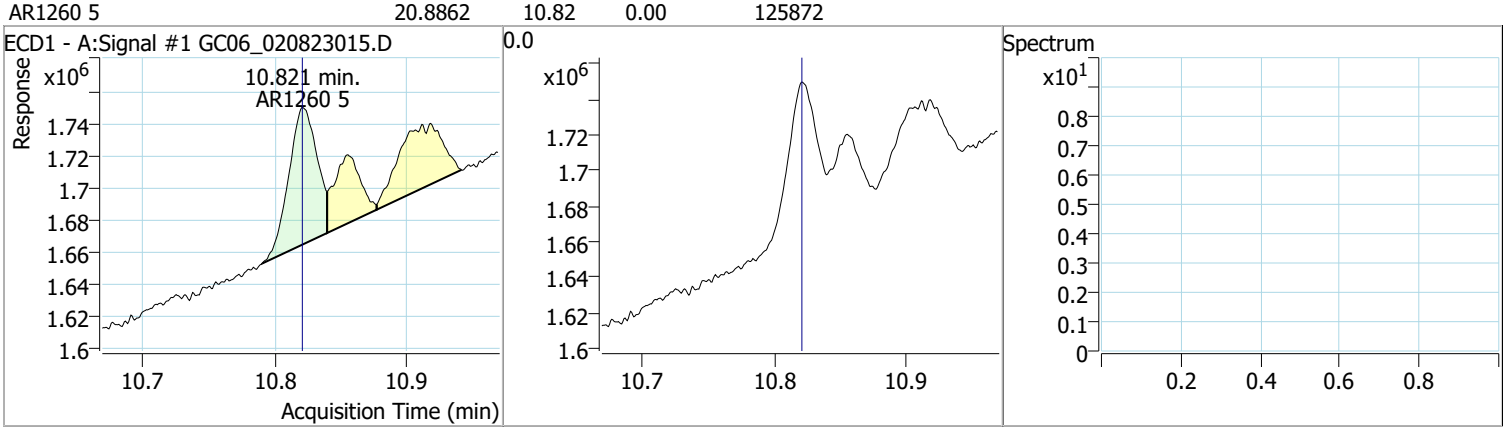
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	26.9484	10.23	0.00	656273				



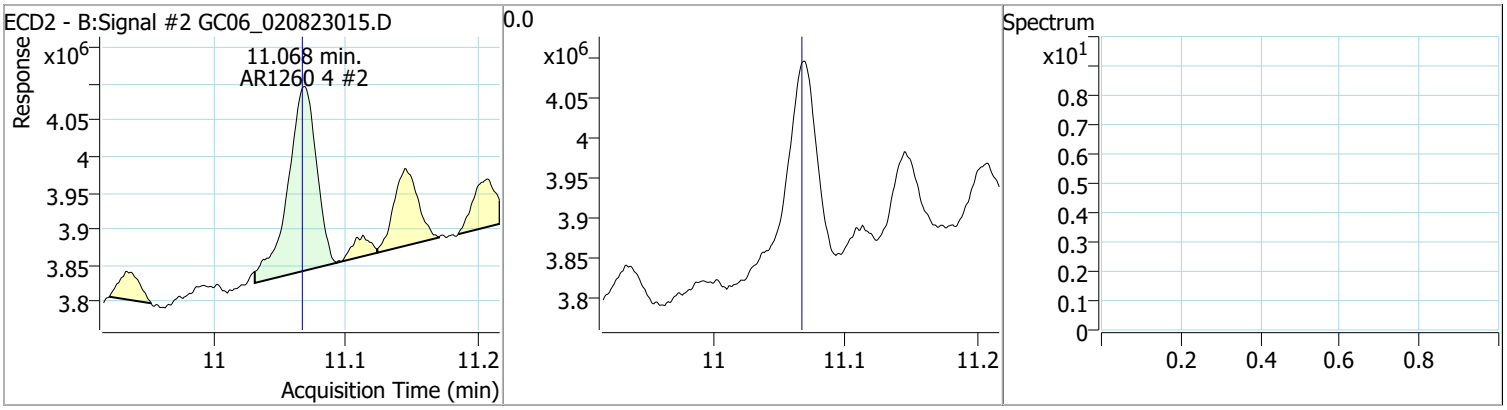
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	23.2821	10.65	0.00	739184				



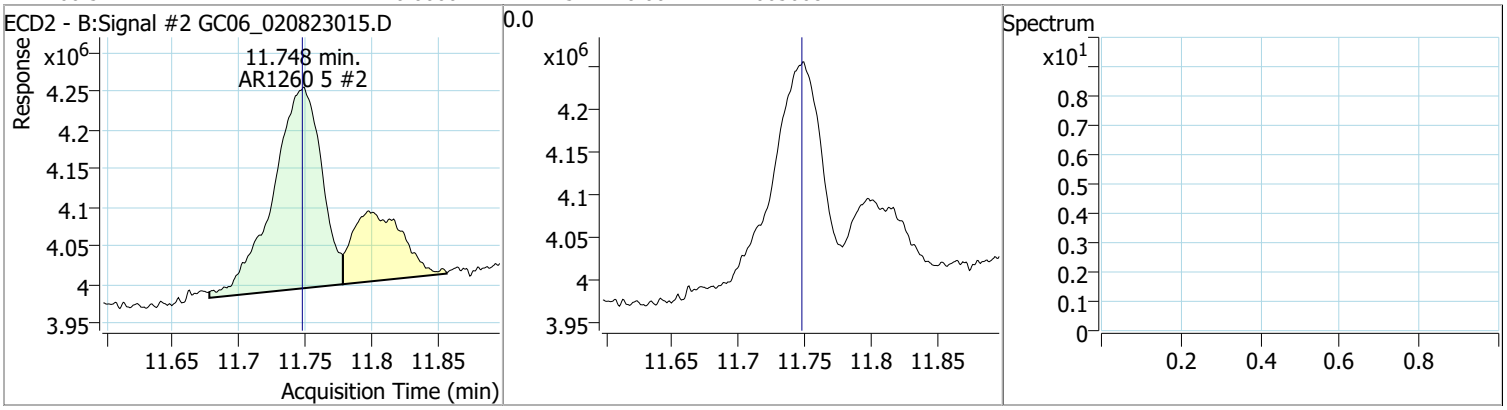
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	20.8862	10.82	0.00	125872				



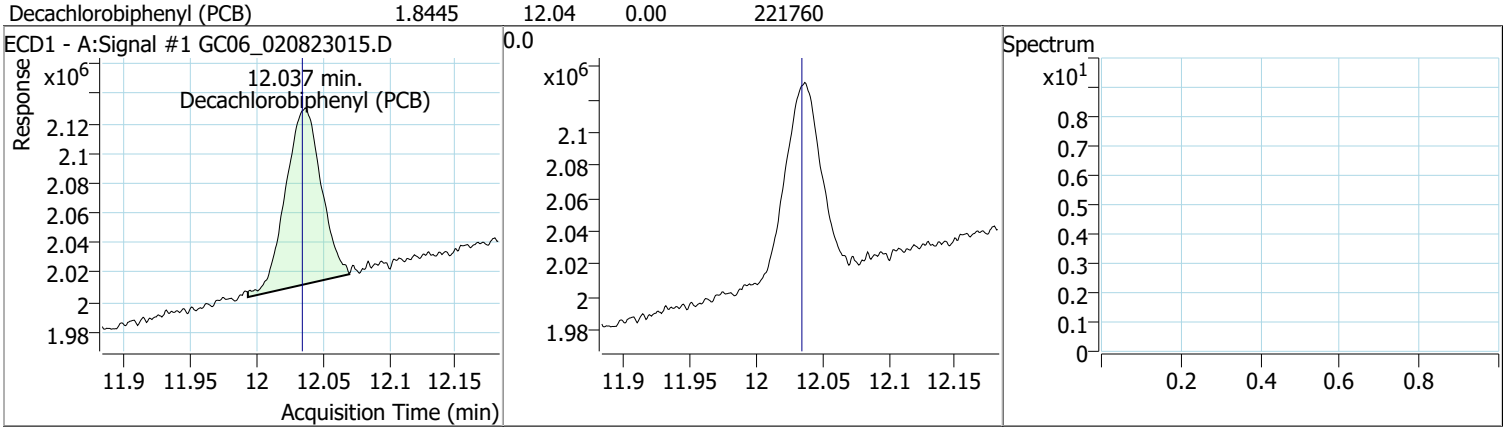
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	22.9632	11.07	0.00	382502				



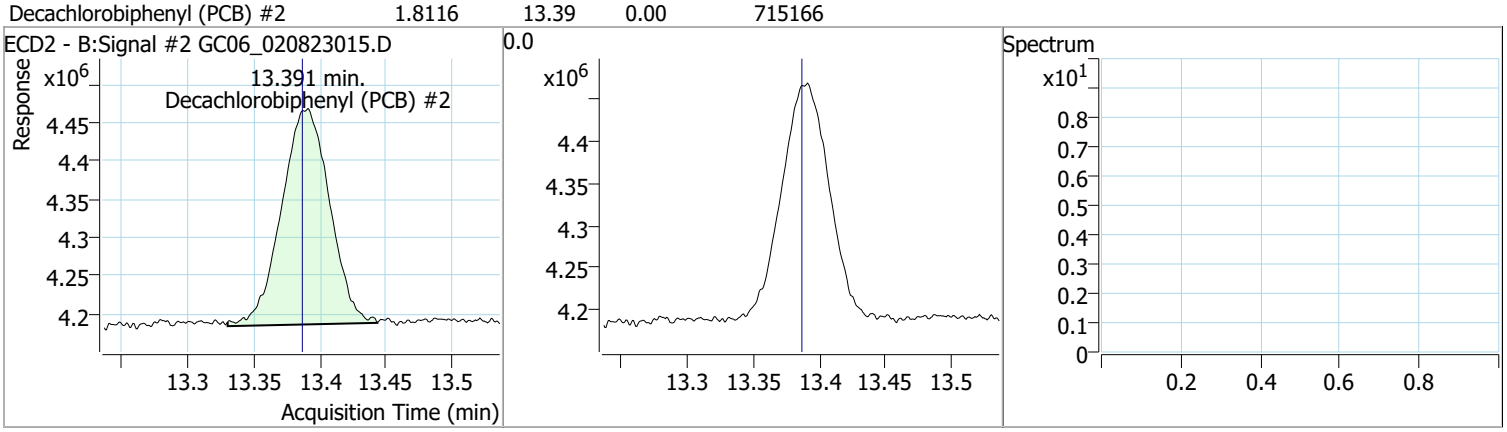
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	0.0000	11.75	0.00	665668				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	1.8445	12.04	0.00	221760				

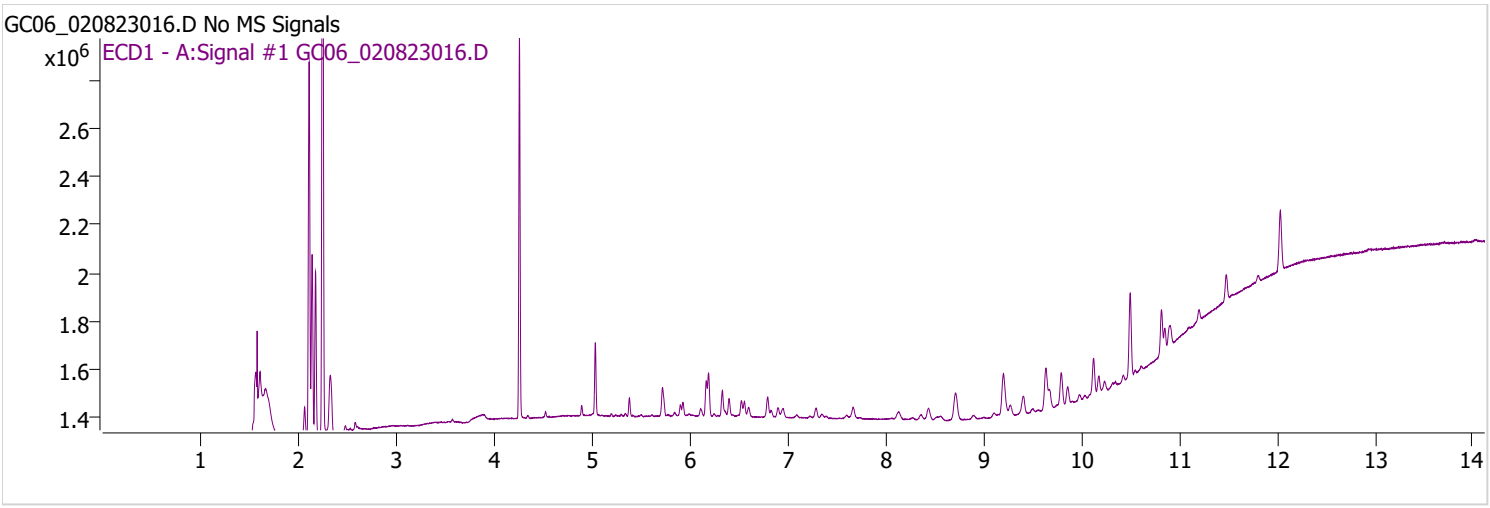


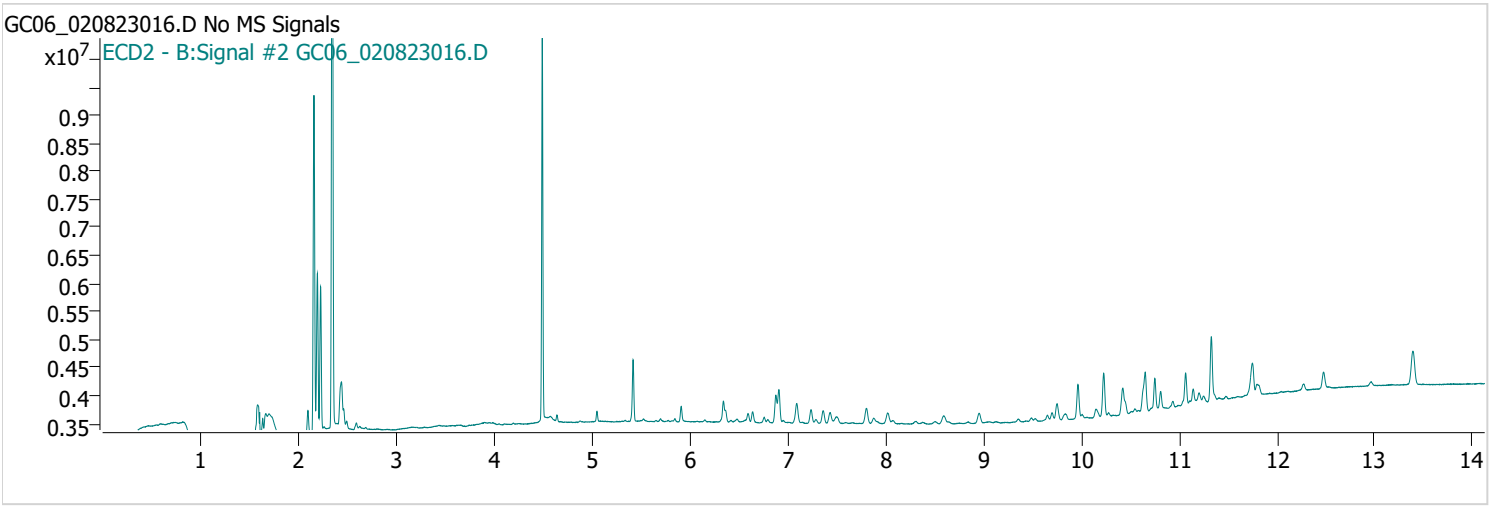
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	1.8116	13.39	0.00	715166				



Quantitation Results Report (Not Reviewed)

Data File	GC06_020823016.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/8/2023 6:59:43 PM
Sample Name	ICAL, S17798	Instrument	SVOA-GC06
Vial	12	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	020823PCBICAL.batch.bin	Last Calib Update	2/9/2023 1:50:24 PM
Ref Library			



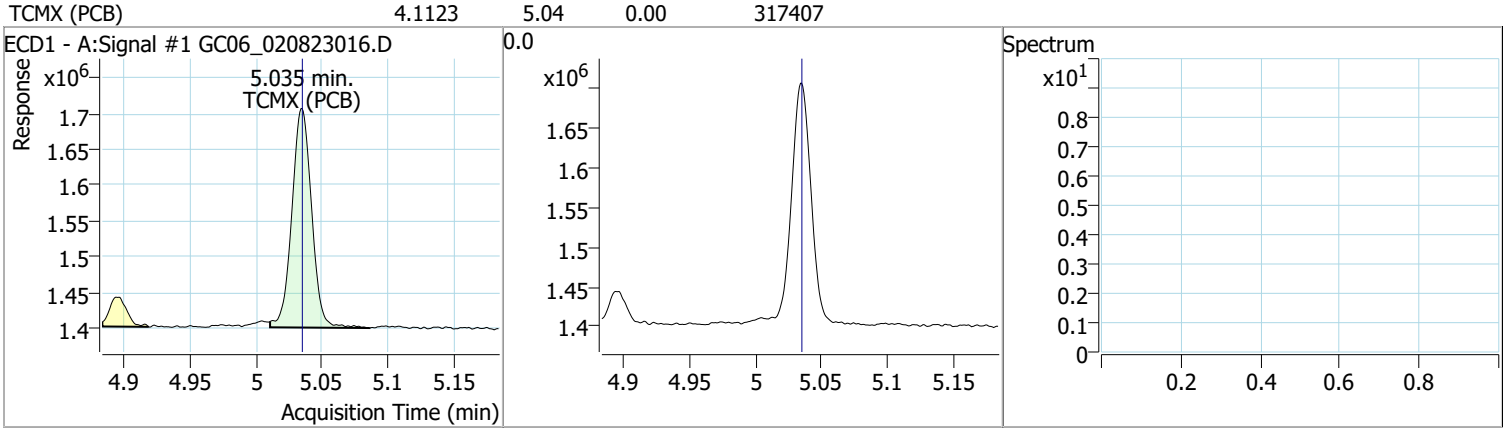


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.259	0.0	1467457.872	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.493	0.0	6070370.380	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.035	0.0	317406.509	4.1123	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.56%		*	
S TCMX (PCB) #2	5.421	0.0	1238519.405	4.0179	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.09%		*	
S Decachlorobiphenyl (PCB)	12.034	0.0	463352.639	4.1386	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.69%		*	
S Decachlorobiphenyl (PCB) #2	13.391	0.0	1544347.294	4.2141	ng/ml		0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 21.07%		*	
Target Compounds							QValue
T AR1016 1	5.383	0.0	82874.979	52.4365	ng/ml		100

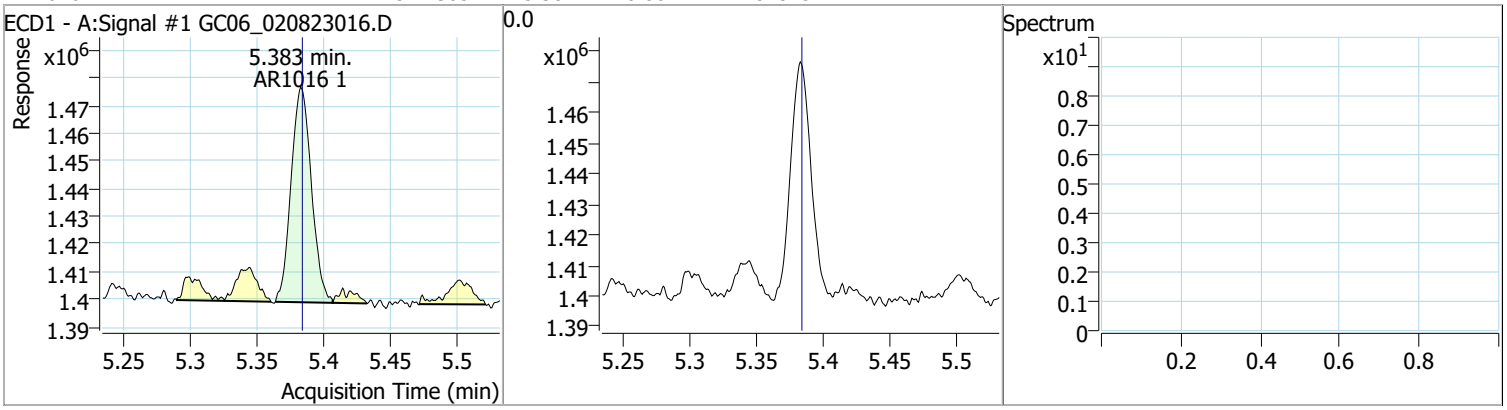
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 2	5.722	0.0	202803.687	23.8602	ng/ml	100
T AR1016 1 #2	5.913	0.0	344293.259	54.2861	ng/ml	100
T AR1016 3	6.192	0.0	236358.278	51.5285	ng/ml	100
T AR1016 4	6.333	0.0	170994.300	48.3587	ng/ml	100
T AR1016 2 #2	6.344	0.0	772275.068	52.0995	ng/ml	100
T AR1016 5	6.527	0.0	78281.322	45.4089	ng/ml	100
T AR1016 3 #2	6.911	0.0	1003539.777	55.3307	ng/ml	100
T AR1016 4 #2	7.093	0.0	685497.076	53.0035	ng/ml	100
T AR1016 5 #2	7.806	0.0	538418.394	51.3765	ng/ml	100
T AR1260 1	8.717	0.0	296034.751	49.8363	ng/ml	100
T AR1260 2	9.205	0.0	454445.436	54.8631	ng/ml	100
T AR1260 3	9.640	0.0	495614.620	53.0270	ng/ml	100
T AR1260 1 #2	9.967	0.0	1005346.662	52.4780	ng/ml	100
T AR1260 4	10.126	0.0	270044.596	54.7804	ng/ml	100
T AR1260 2 #2	10.230	0.0	1291924.606	57.1454	ng/ml	100
T AR1260 3 #2	10.654	0.0	1529533.215	51.8950	ng/ml	100
T AR1260 5	10.820	0.0	290685.120	51.7948	ng/ml	100
T AR1260 4 #2	11.068	0.0	846985.289	54.7735	ng/ml	100
T AR1260 5 #2	11.750	0.0	1396767.621	23.1544	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

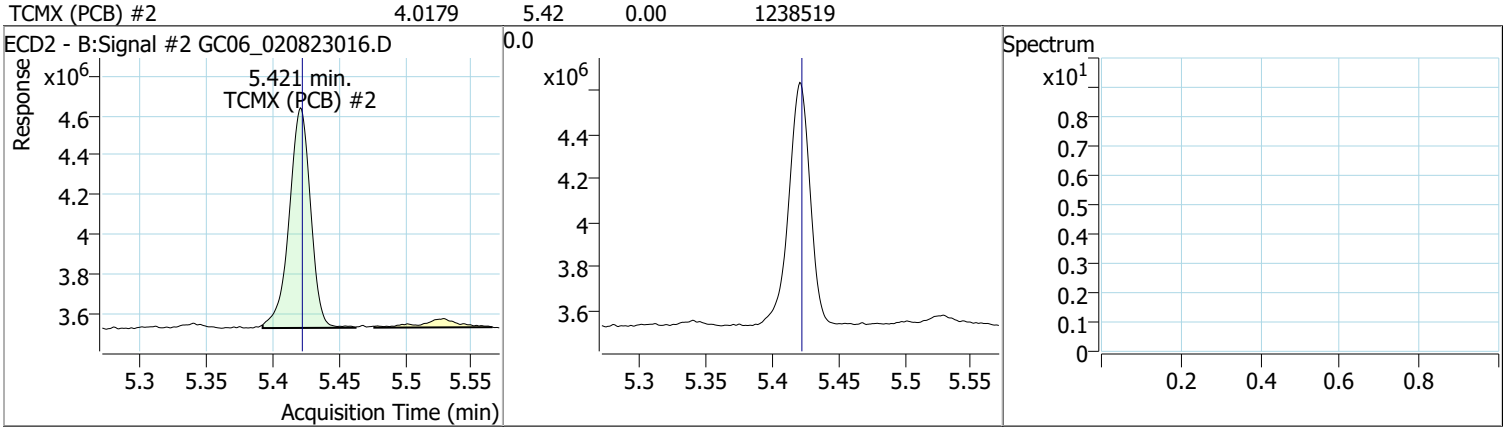
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	4.1123	5.04	0.00	317407				



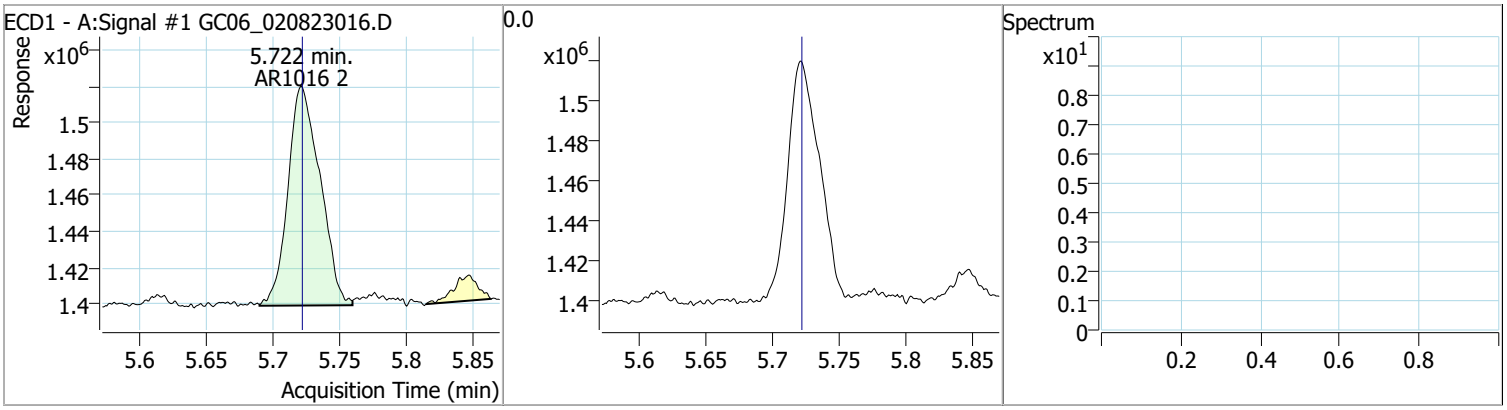
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	52.4365	5.38	0.00	82875				



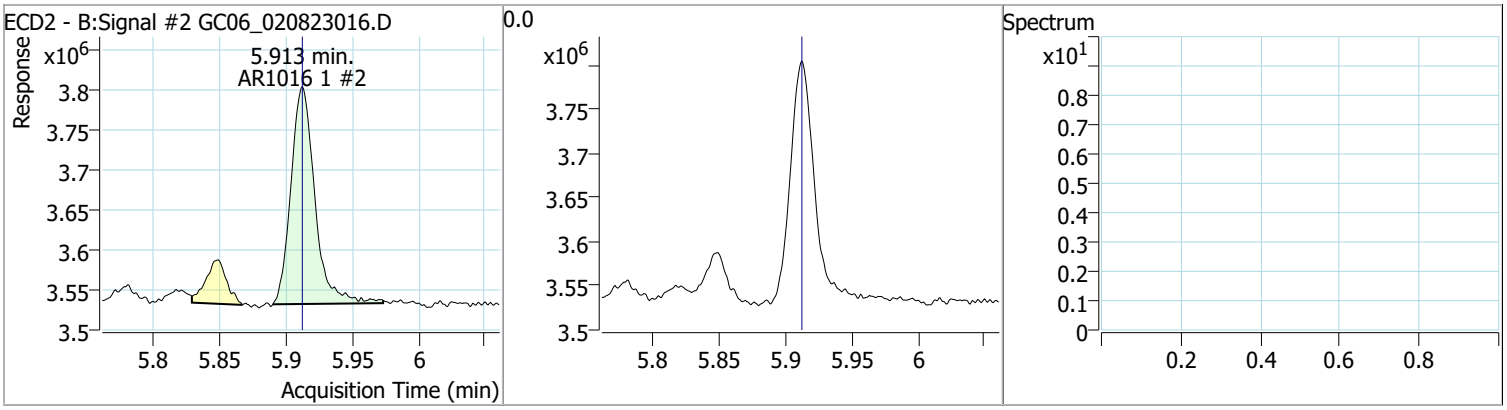
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	4.0179	5.42	0.00	1238519				



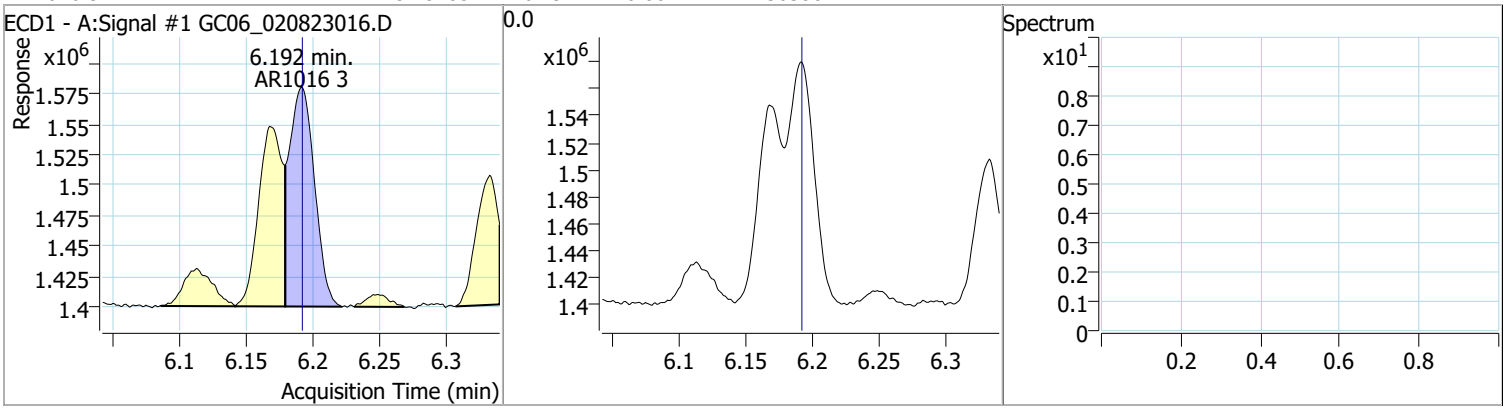
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	23.8602	5.72	0.00	202804				



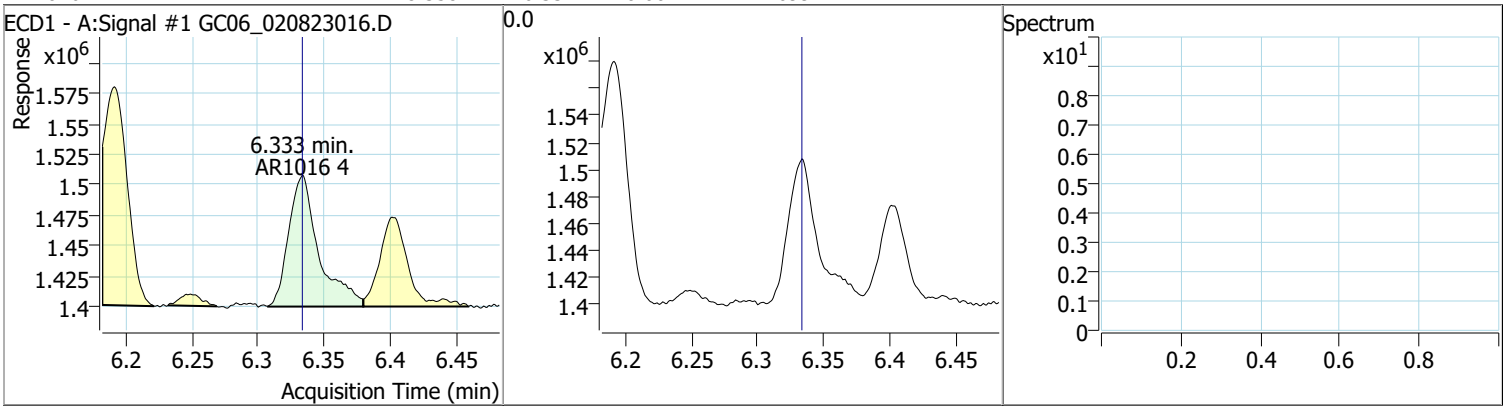
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	54.2861	5.91	0.00	344293				



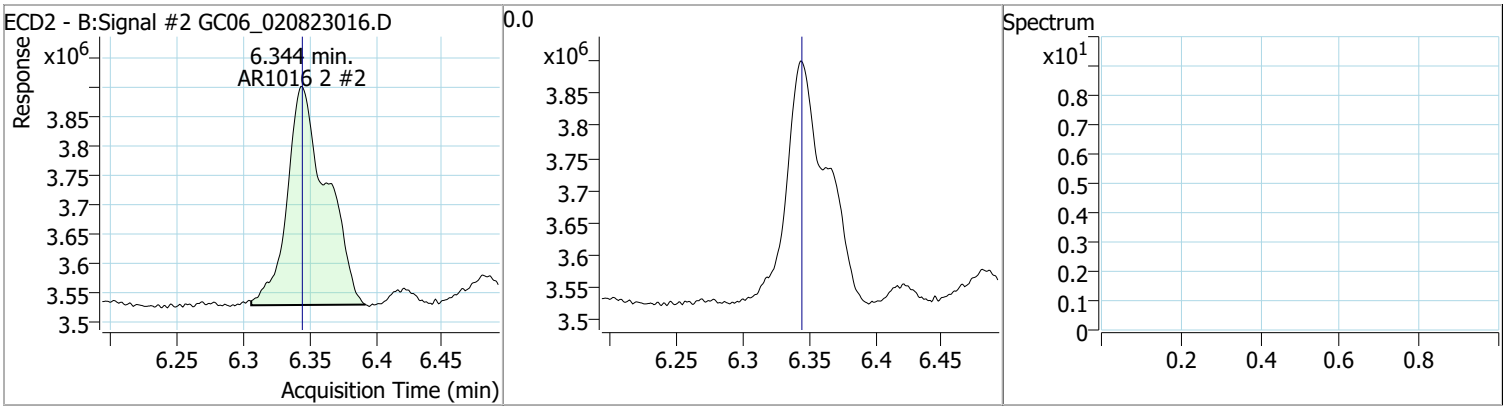
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	51.5285	6.19	0.00	236358				



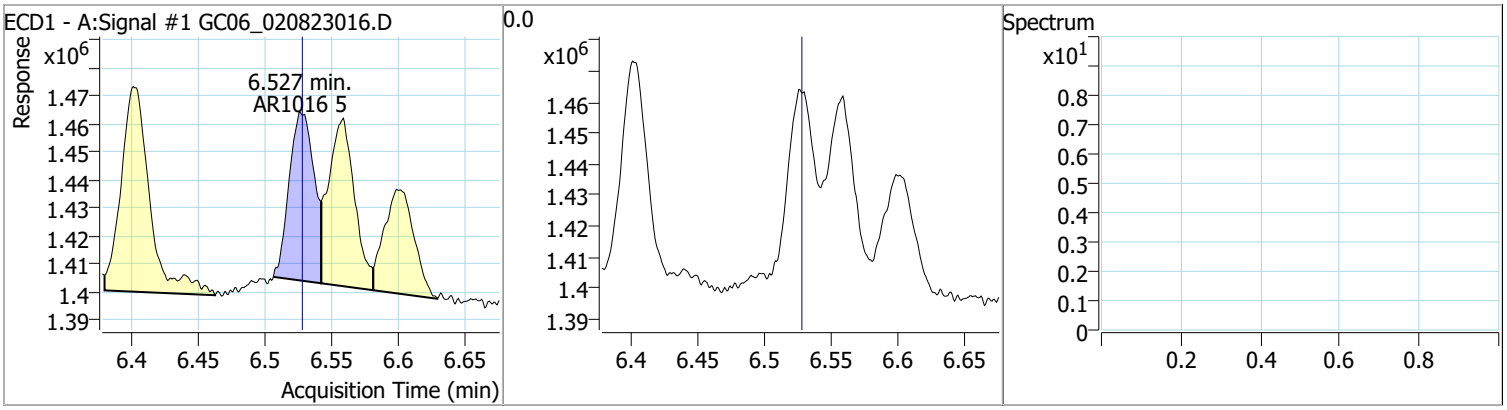
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	48.3587	6.33	0.00	170994				



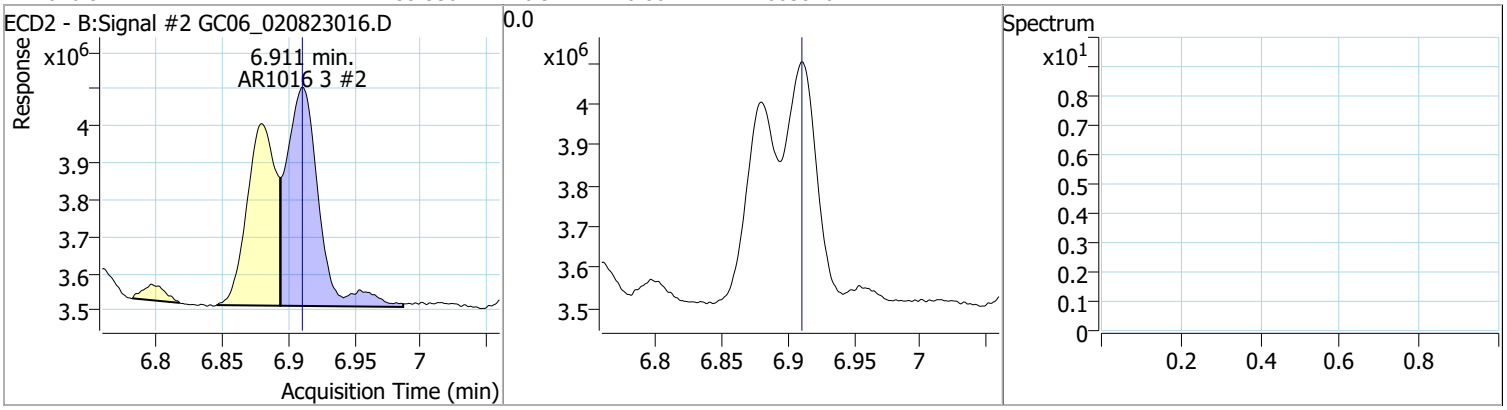
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	52.0995	6.34	0.00	772275				



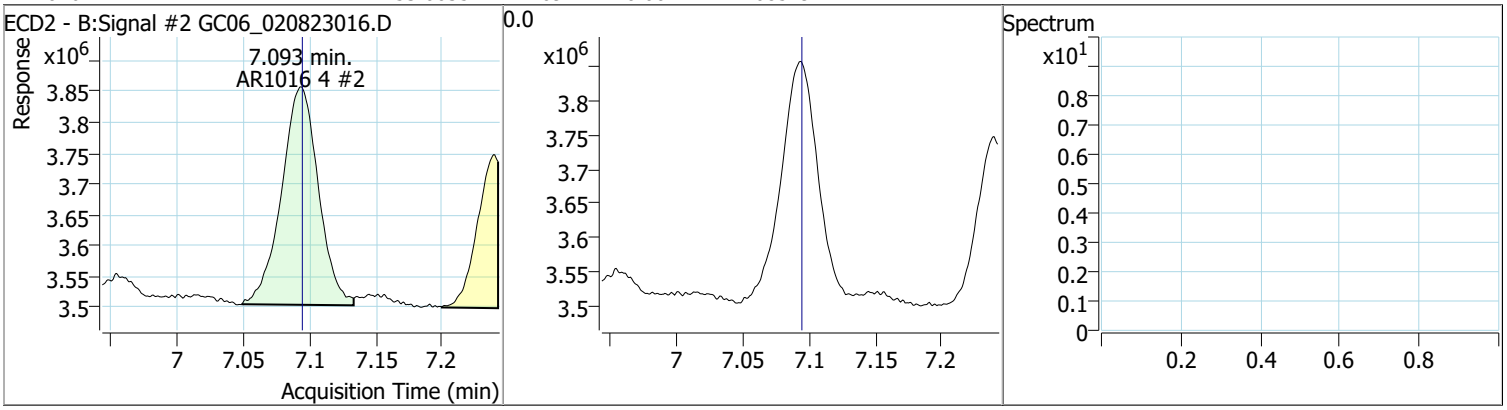
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	45.4089	6.53	0.00	78281				



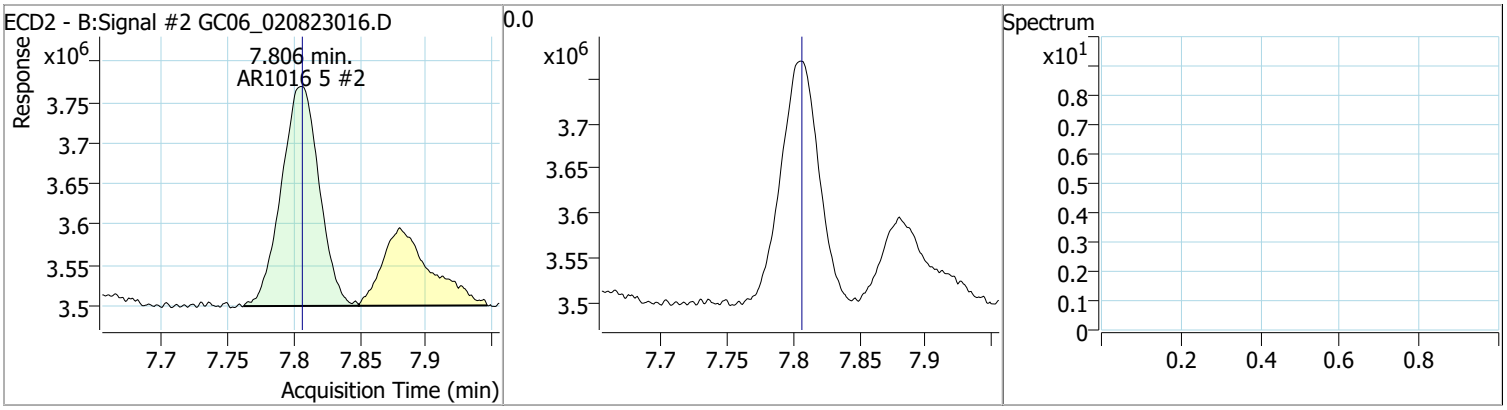
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	55.3307	6.91	0.00	1003540				



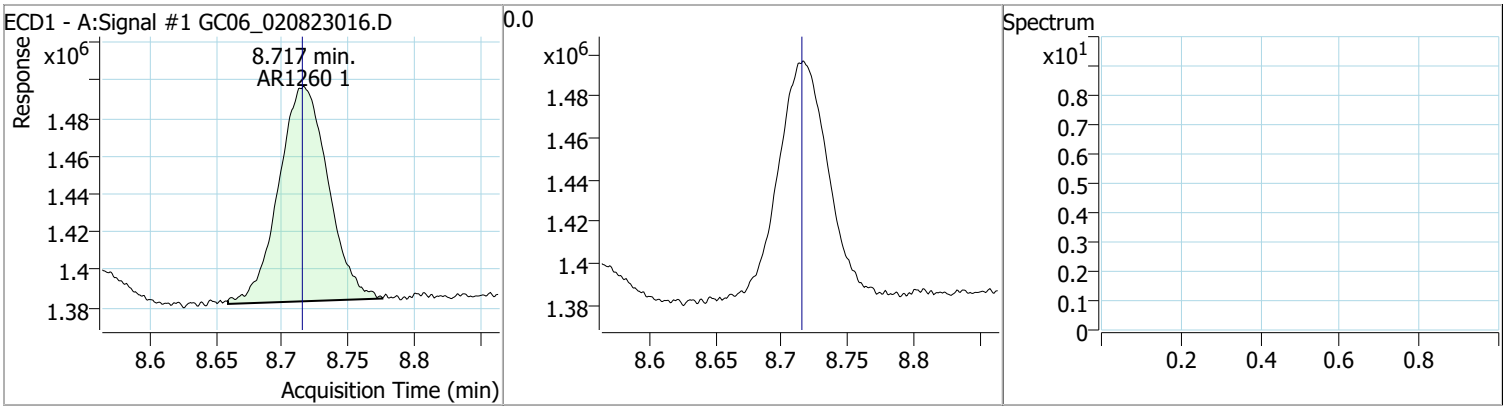
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	53.0035	7.09	0.00	685497				



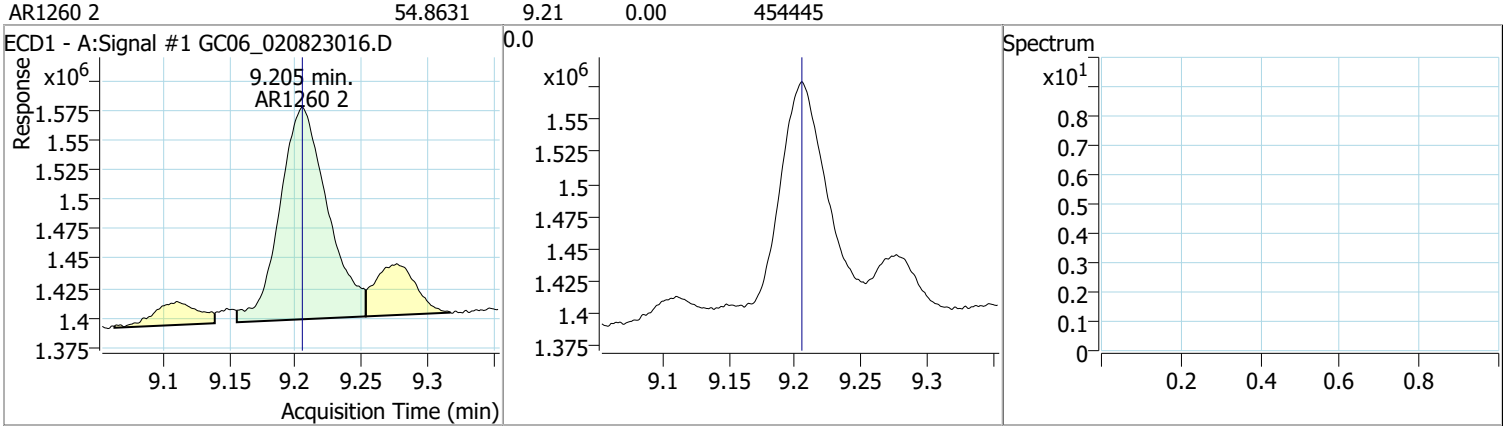
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	51.3765	7.81	0.00	538418				



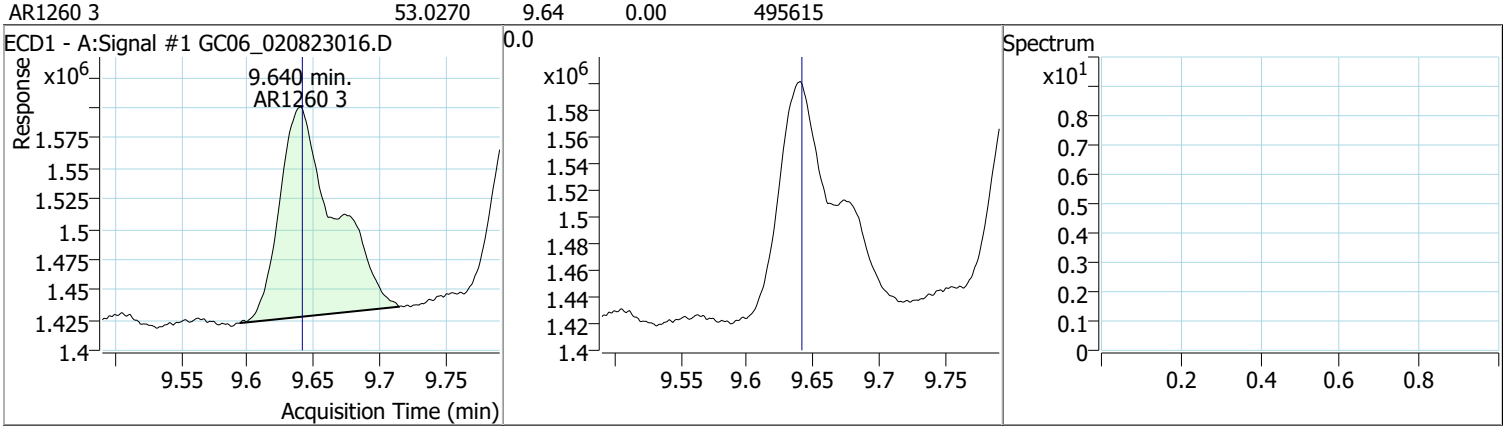
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	49.8363	8.72	0.00	296035				



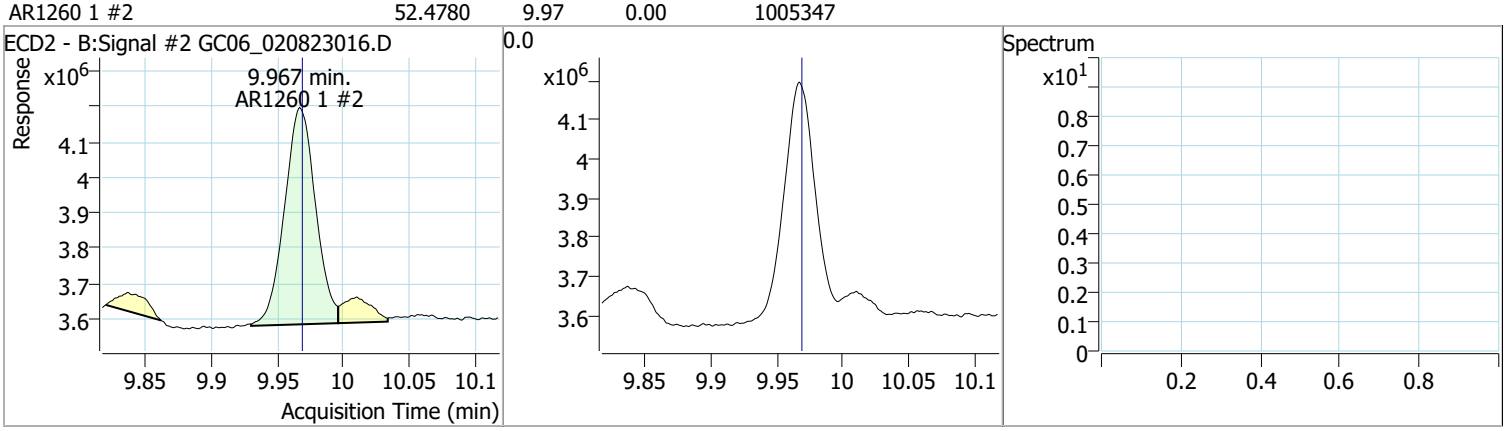
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	54.8631	9.21	0.00	454445				



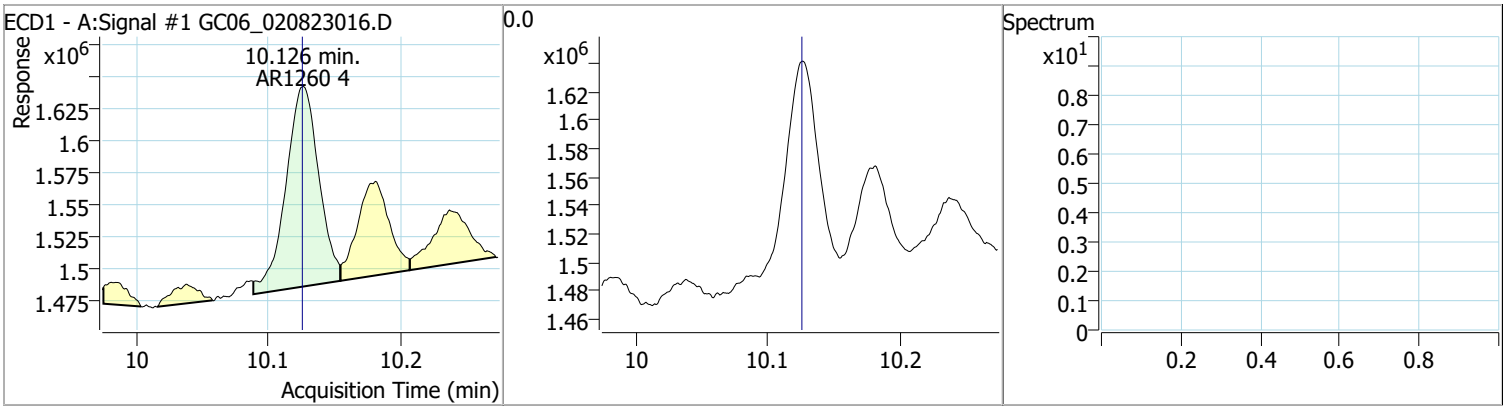
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	53.0270	9.64	0.00	495615				



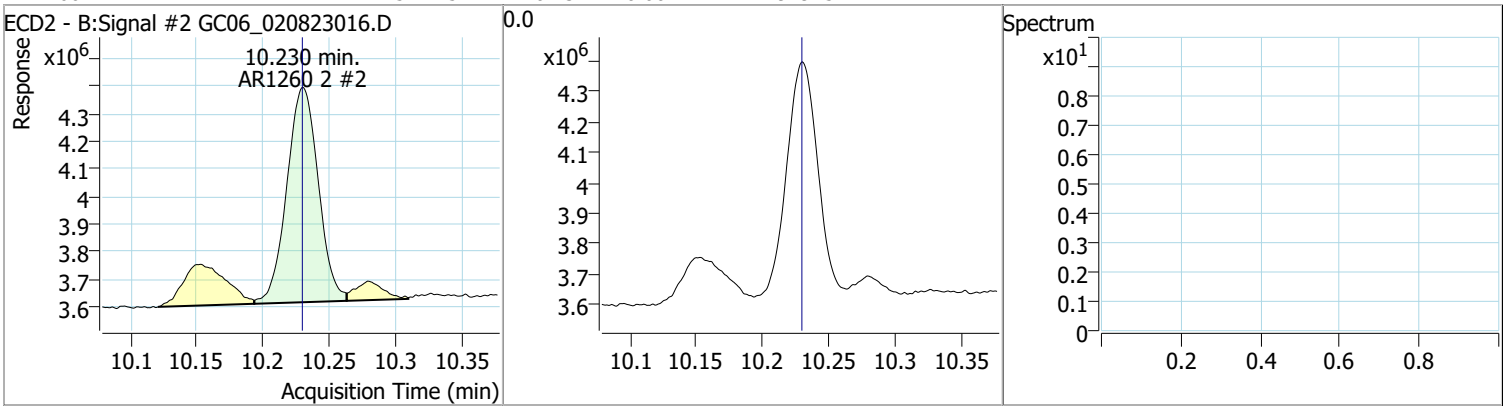
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	52.4780	9.97	0.00	1005347				



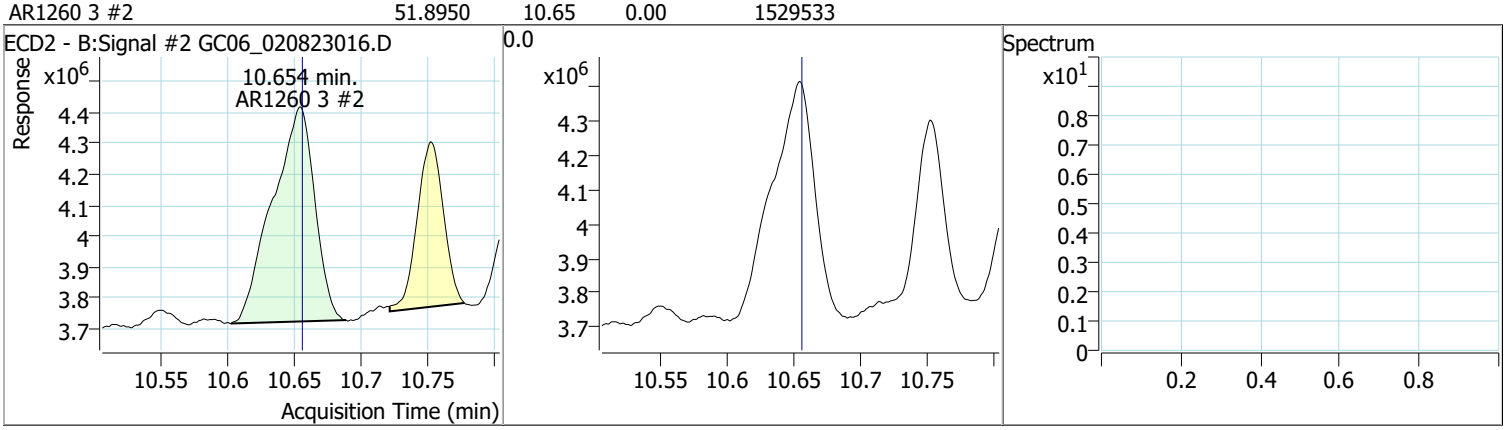
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	54.7804	10.13	0.00	270045				



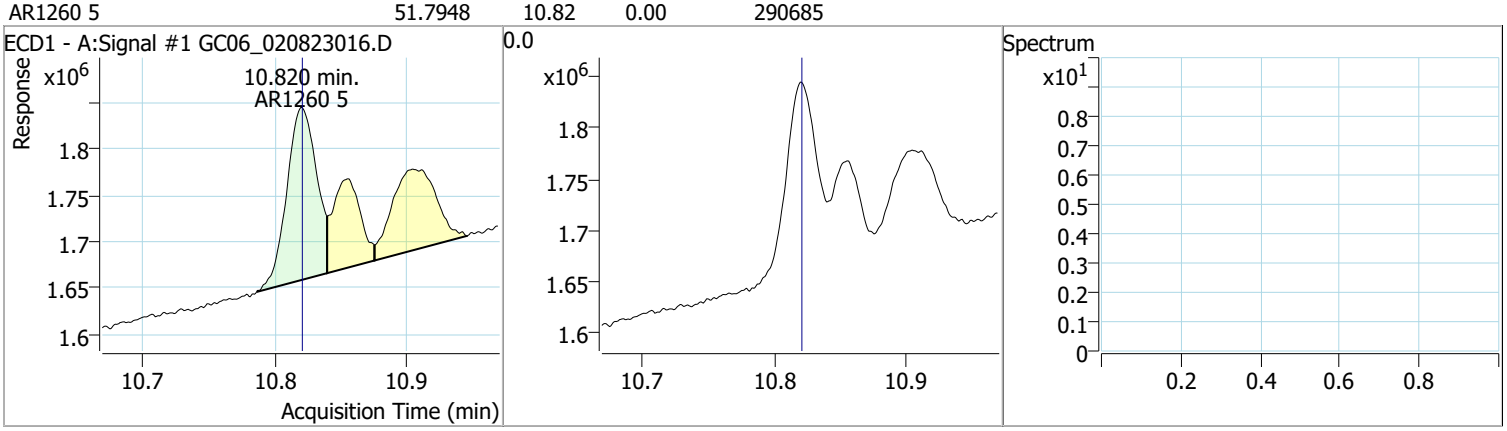
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	57.1454	10.23	0.00	1291925				



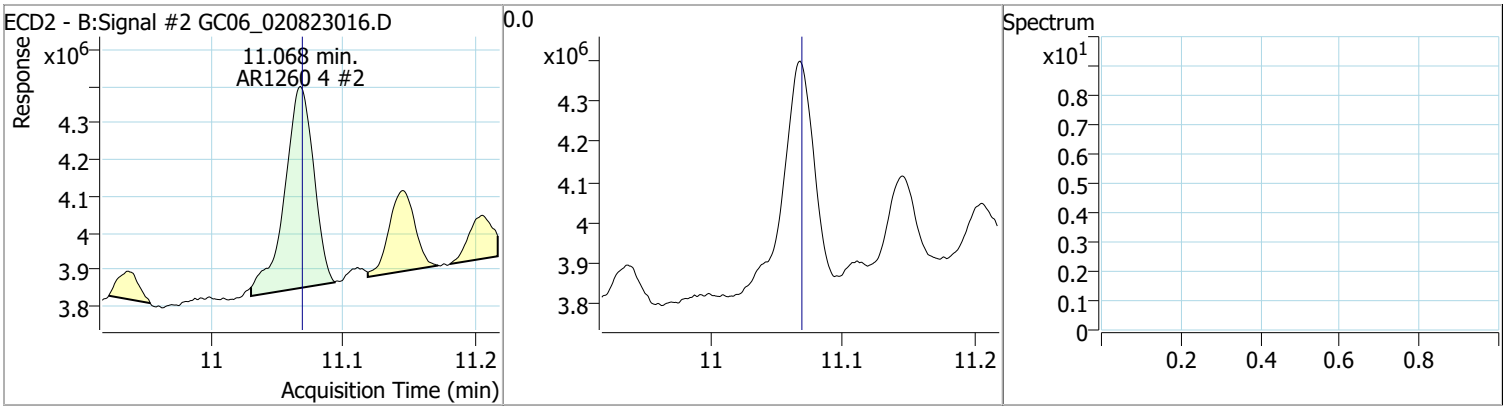
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	51.8950	10.65	0.00	1529533				



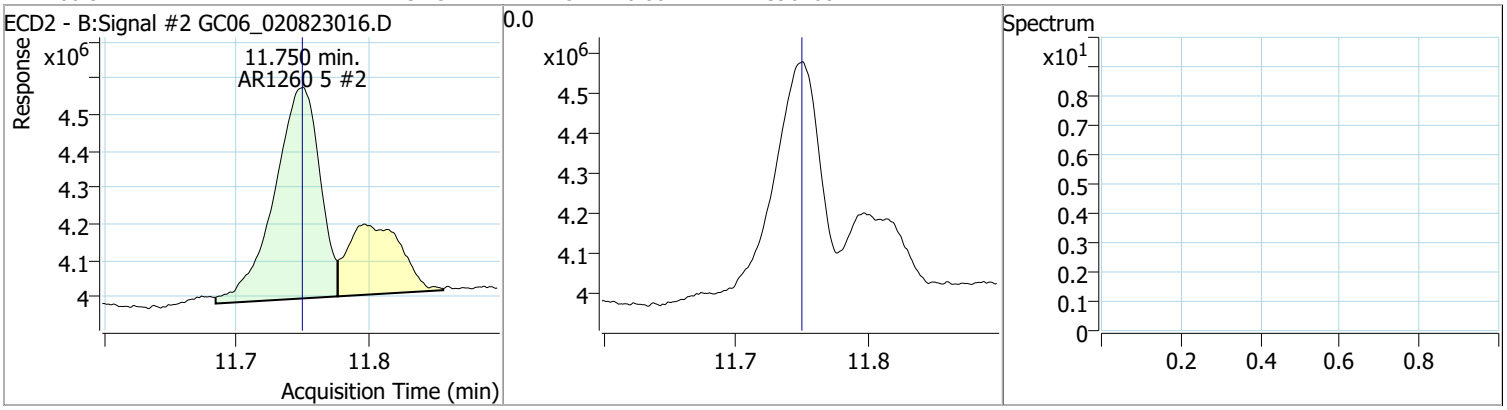
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	51.7948	10.82	0.00	290685				



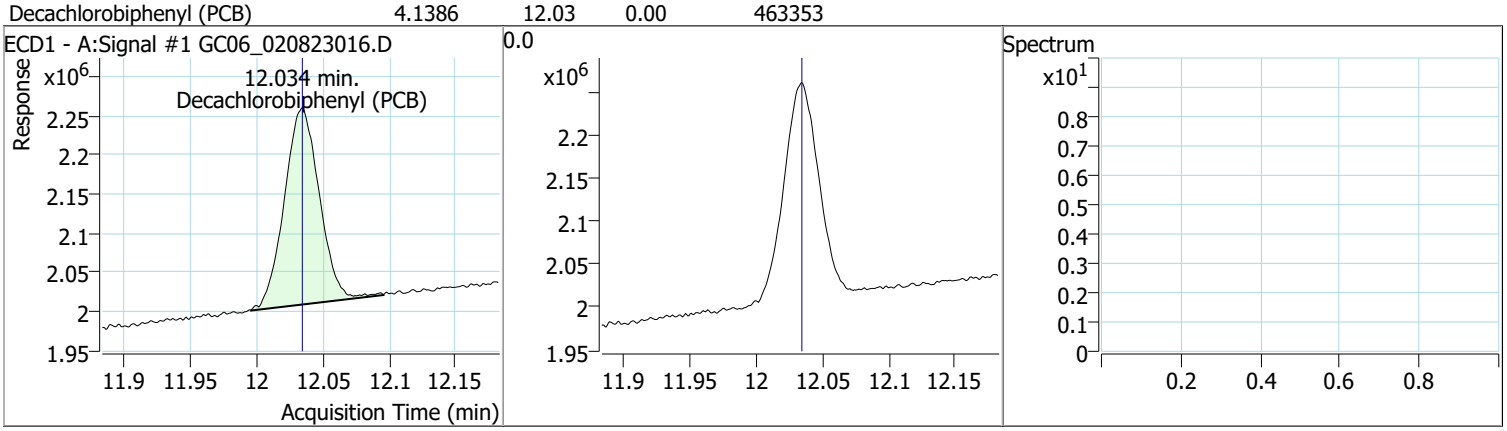
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	54.7735	11.07	0.00	846985				



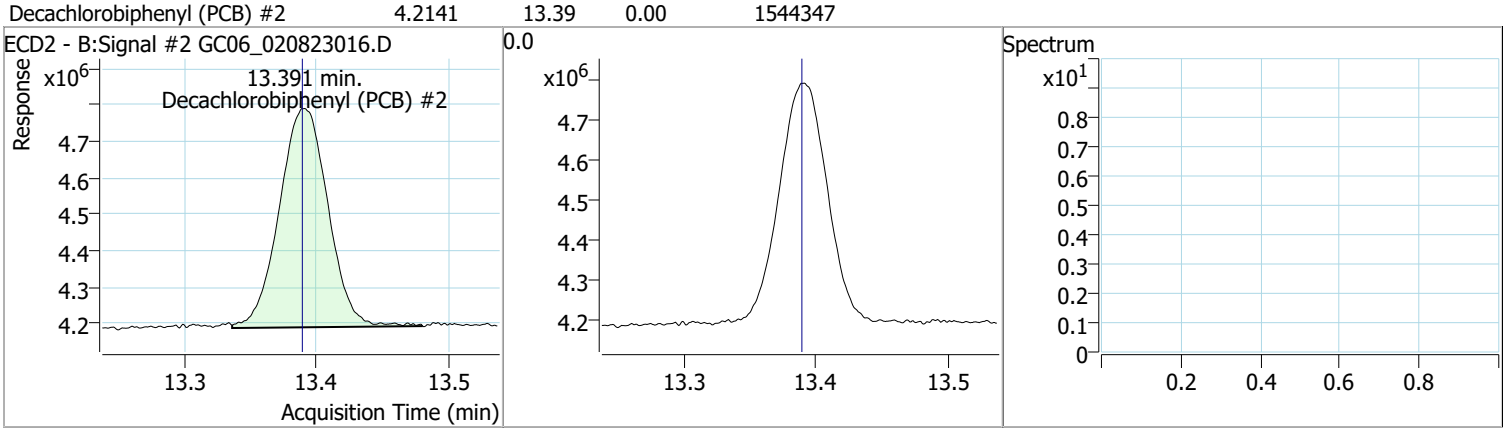
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	23.1544	11.75	0.00	1396768				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	4.1386	12.03	0.00	463353				

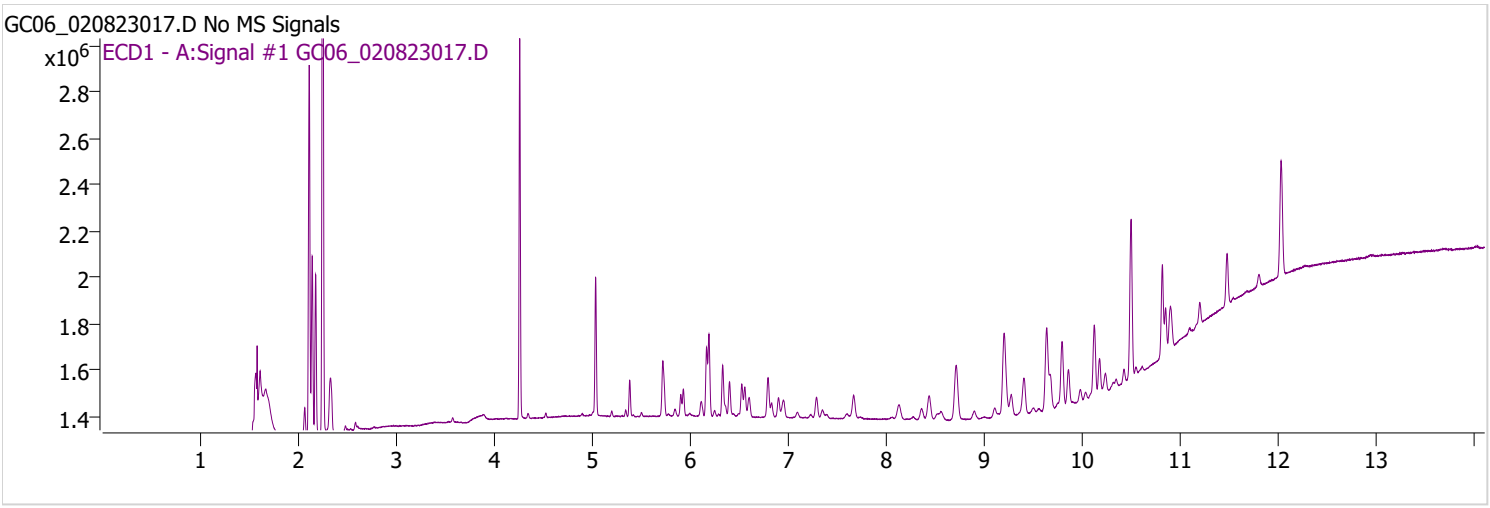


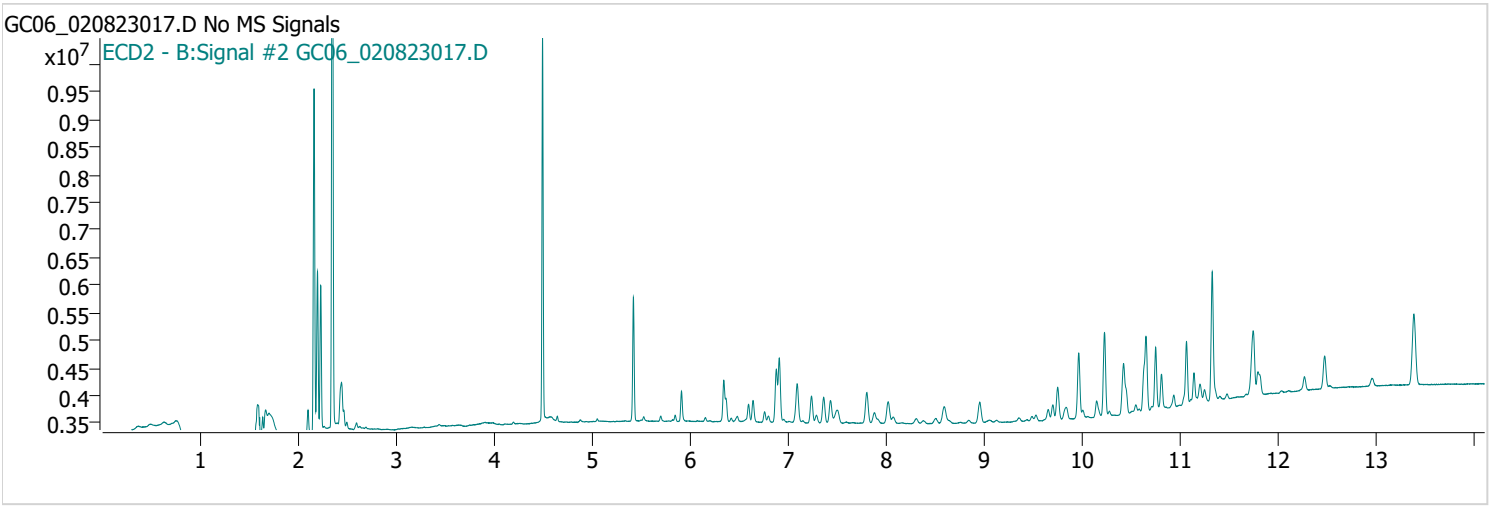
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	4.2141	13.39	0.00	1544347				



Quantitation Results Report (Not Reviewed)

Data File	GC06_020823017.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/8/2023 7:18:06 PM
Sample Name	ICAL, S17799	Instrument	SVOA-GC06
Vial	13	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	020823PCBICAL.batch.bin	Last Calib Update	2/9/2023 1:50:24 PM
Ref Library			



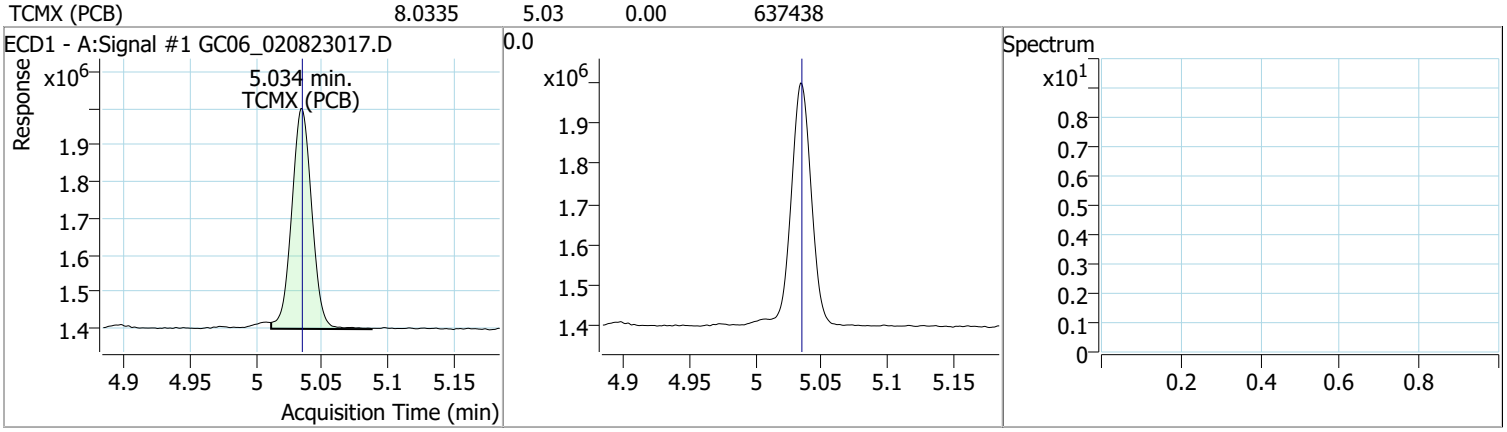


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.259	0.0	1508558.073	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.493	0.0	6272772.514	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.034	0.0	637438.420	8.0335	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 40.17%		*	
S TCMX (PCB) #2	5.420	0.0	2397980.505	7.5282	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 37.64%		*	
S Decachlorobiphenyl (PCB)	12.033	0.0	924362.996	8.0313	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 40.16%		*	
S Decachlorobiphenyl (PCB) #2	13.389	0.0	3099406.991	8.1845	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 40.92%		*	
Target Compounds							QValue
T AR1016 1	5.383	0.0	169732.797	104.4671	ng/ml		100

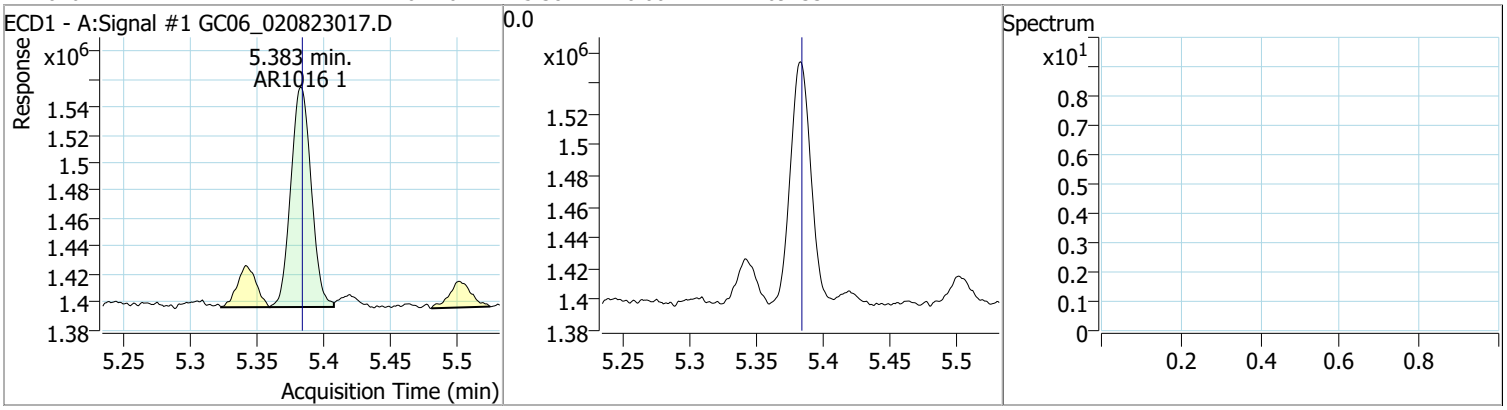
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 2	5.721	0.0	400595.555	90.9562	ng/ml	100
T AR1016 1 #2	5.911	0.0	690075.937	105.2962	ng/ml	100
T AR1016 3	6.192	0.0	470649.632	99.8109	ng/ml	100
T AR1016 4	6.332	0.0	351247.428	96.6295	ng/ml	100
T AR1016 2 #2	6.343	0.0	1531509.300	99.9855	ng/ml	100
T AR1016 5	6.527	0.0	195563.725	110.3507	ng/ml	100
T AR1016 3 #2	6.909	0.0	1889572.335	100.8210	ng/ml	100
T AR1016 4 #2	7.092	0.0	1362117.546	101.9223	ng/ml	100
T AR1016 5 #2	7.804	0.0	1120286.413	103.4498	ng/ml	100
T AR1260 1	8.718	0.0	600688.094	98.3684	ng/ml	100
T AR1260 2	9.205	0.0	902691.204	106.0088	ng/ml	100
T AR1260 3	9.640	0.0	888558.748	92.4788	ng/ml	100
T AR1260 1 #2	9.967	0.0	2059143.843	104.0168	ng/ml	100
T AR1260 4	10.126	0.0	547097.921	107.9590	ng/ml	100
T AR1260 2 #2	10.230	0.0	2526698.023	108.1566	ng/ml	100
T AR1260 3 #2	10.653	0.0	3071856.241	100.8609	ng/ml	100
T AR1260 5	10.822	0.0	609328.448	105.6133	ng/ml	100
T AR1260 4 #2	11.067	0.0	1705733.320	106.7484	ng/ml	100
T AR1260 5 #2	11.748	0.0	2835557.088	83.5827	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

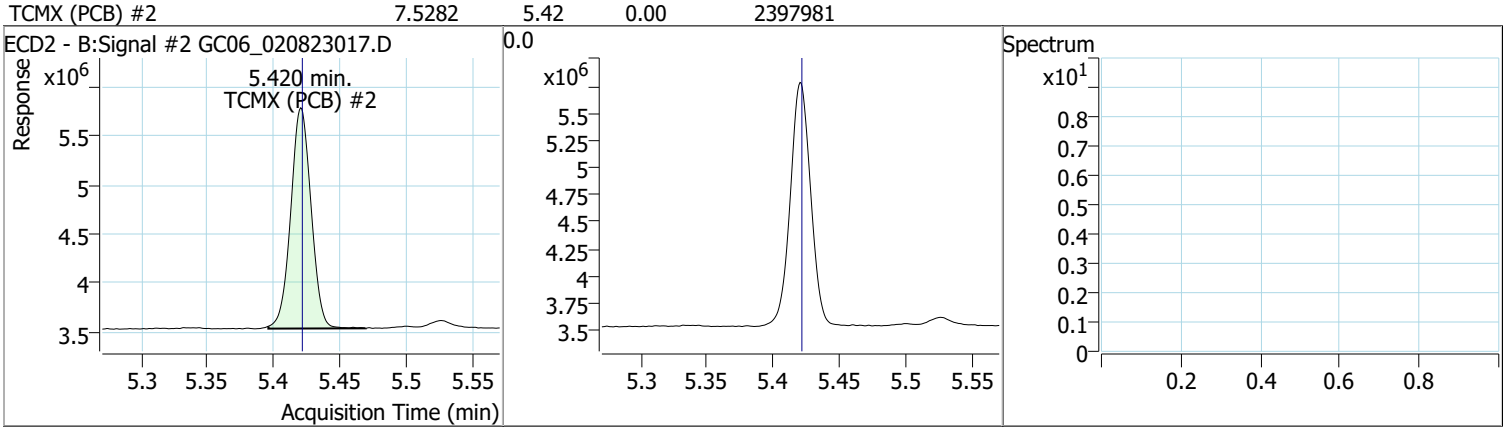
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	8.0335	5.03	0.00	637438				



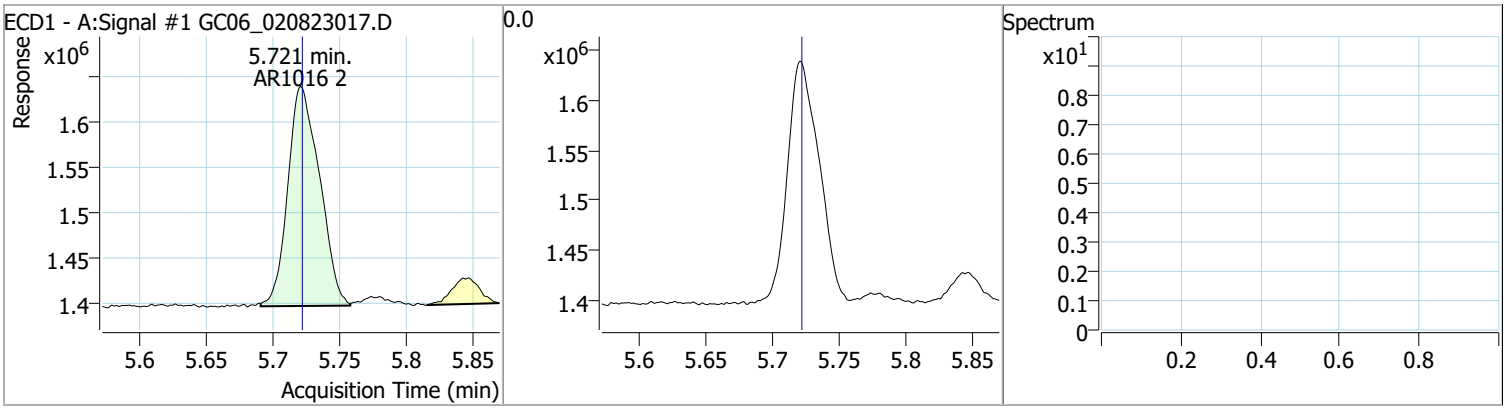
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	104.4671	5.38	0.00	169733				



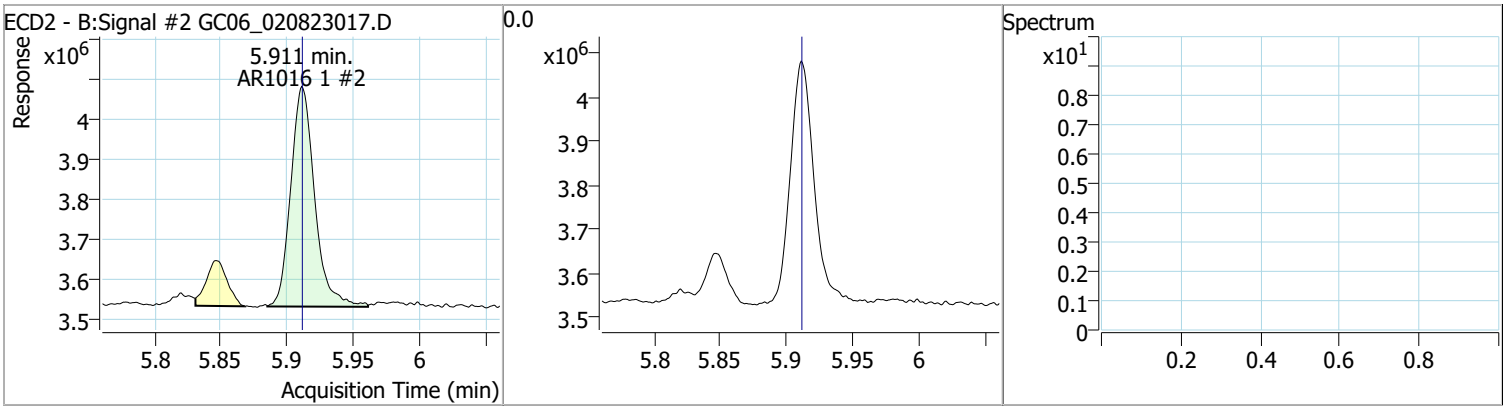
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	7.5282	5.42	0.00	2397981				



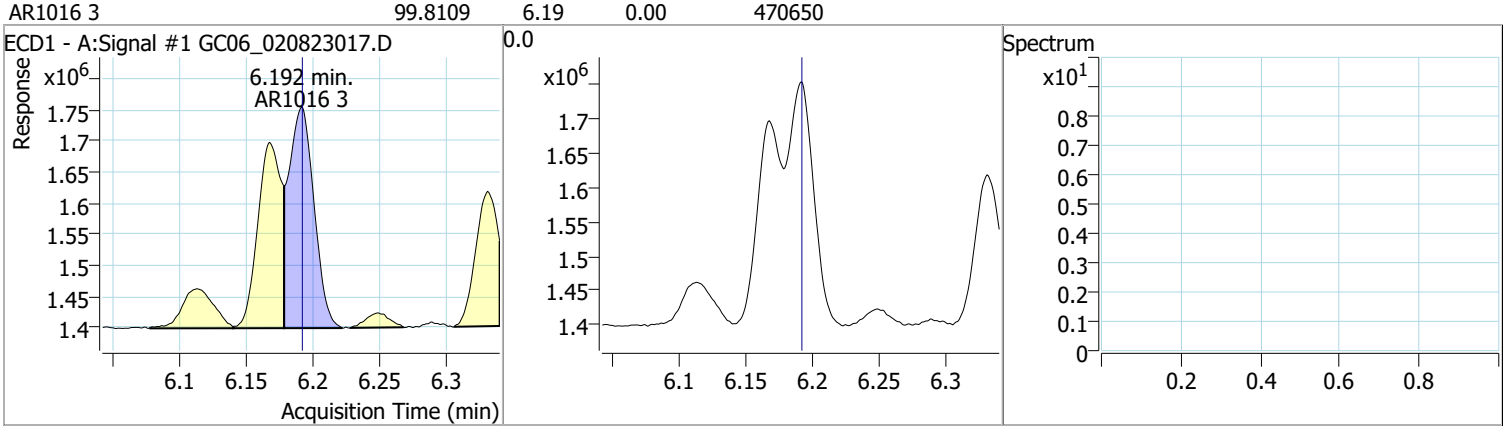
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	90.9562	5.72	0.00	400596				



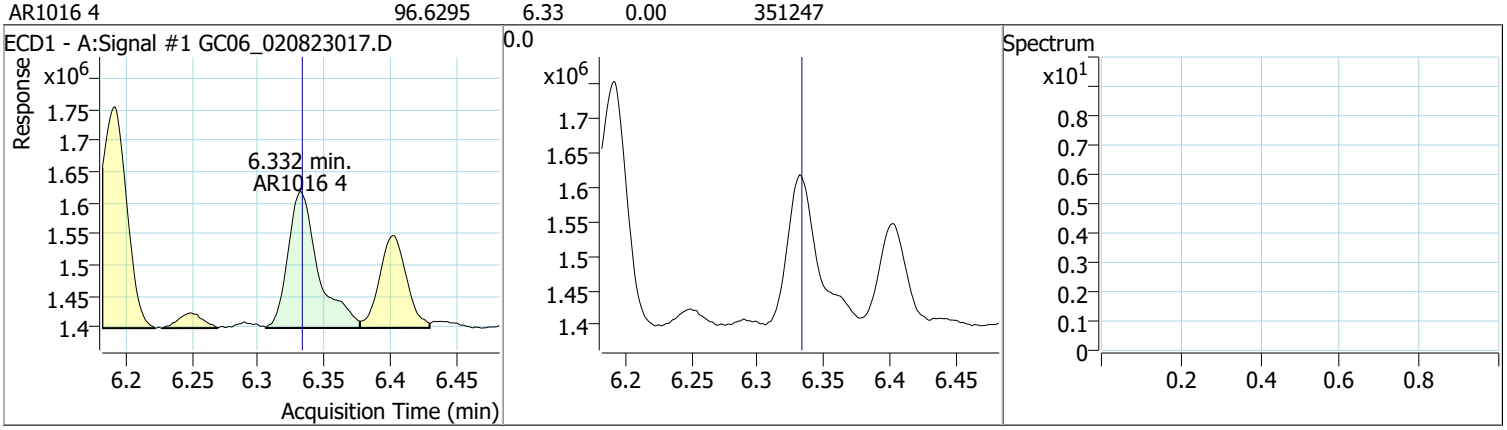
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	105.2962	5.91	0.00	690076				



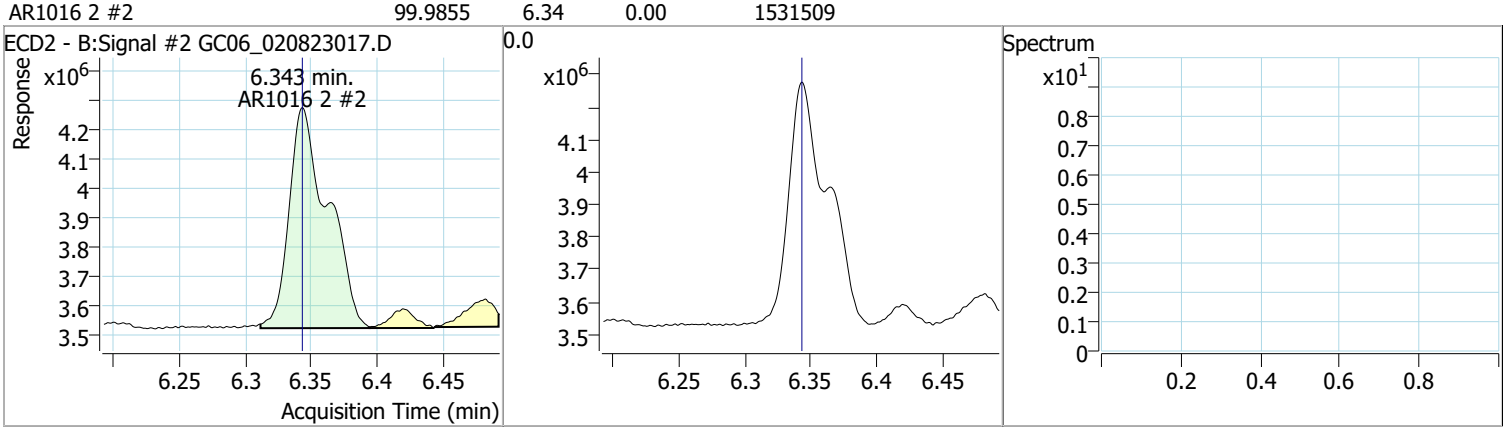
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	99.8109	6.19	0.00	470650				



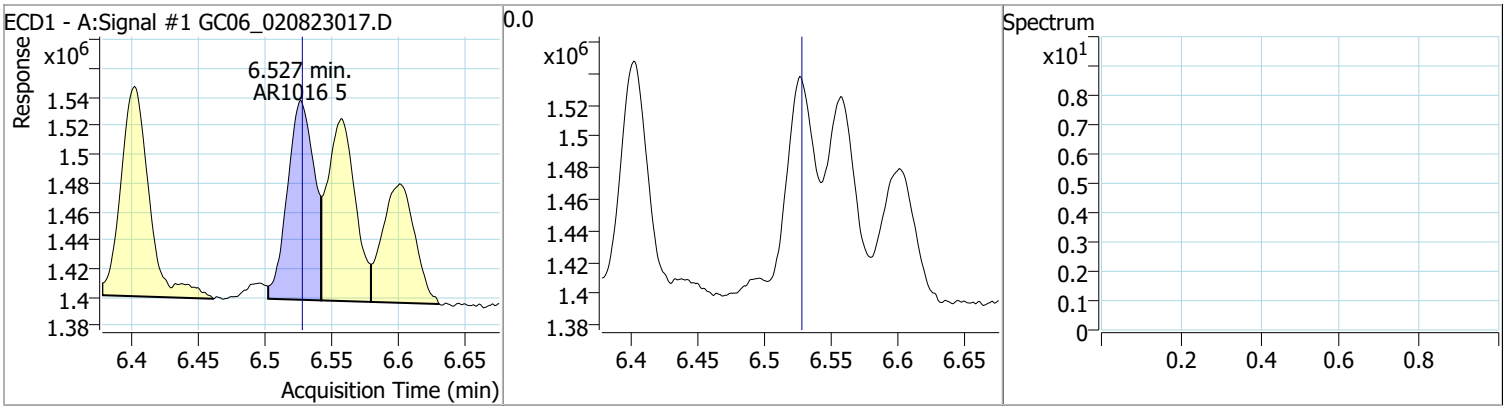
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	96.6295	6.33	0.00	351247				



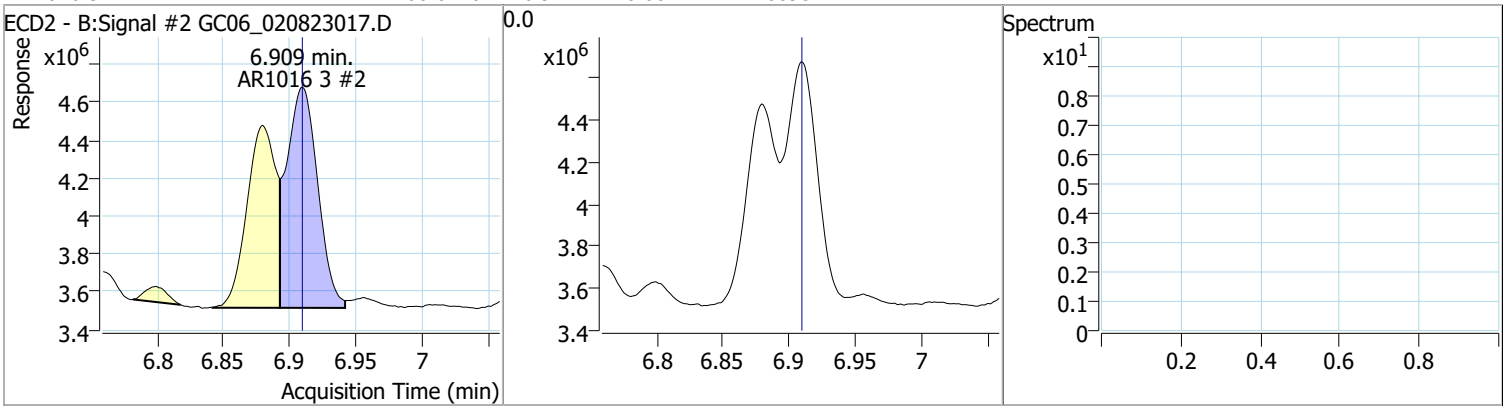
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	99.9855	6.34	0.00	1531509				



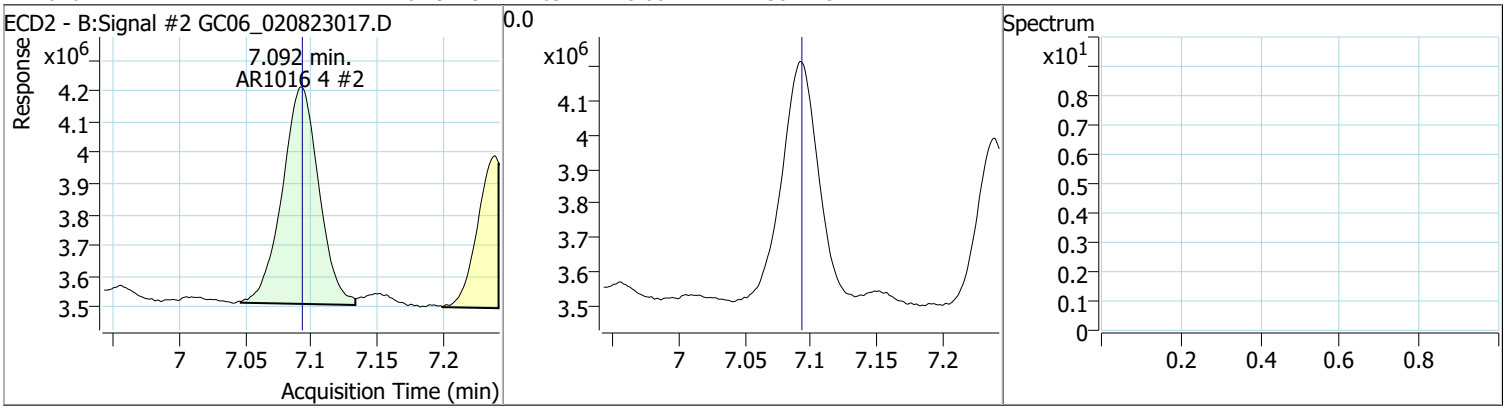
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AR1016 5	110.3507	6.53	0.00	195564				



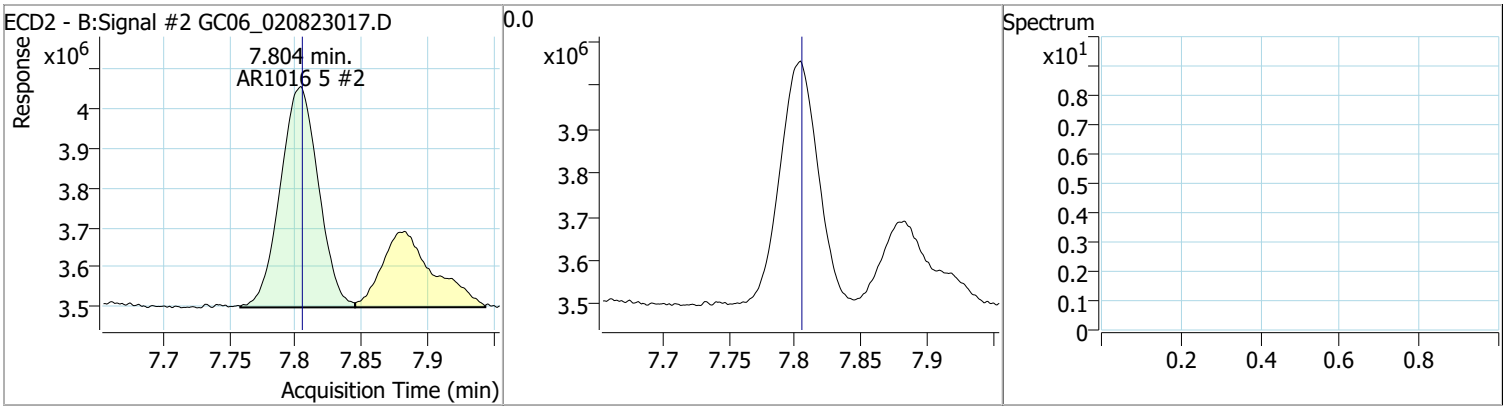
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	100.8210	6.91	0.00	1889572				



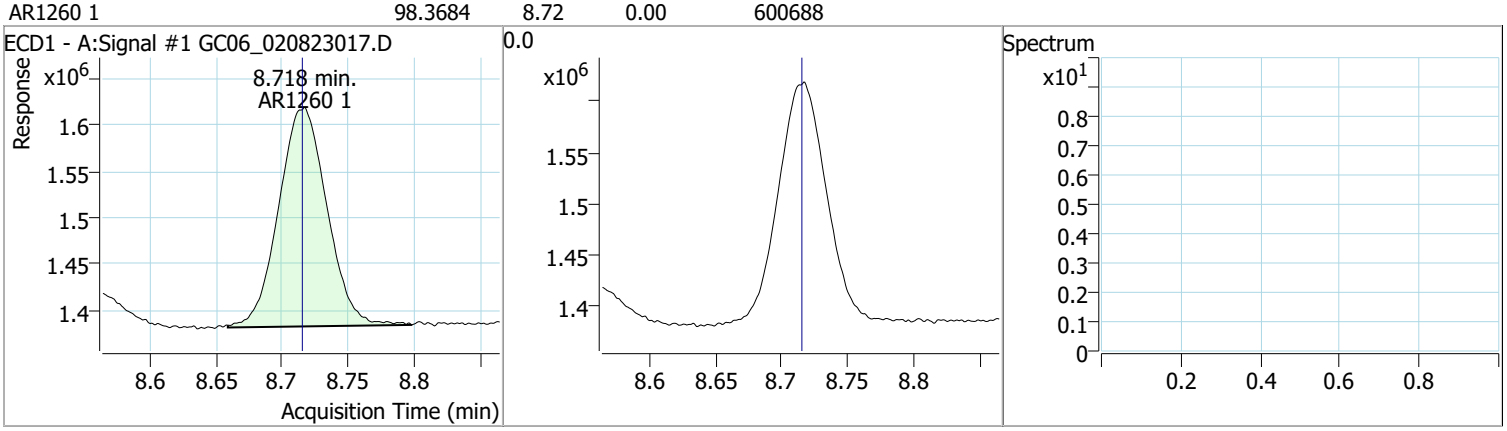
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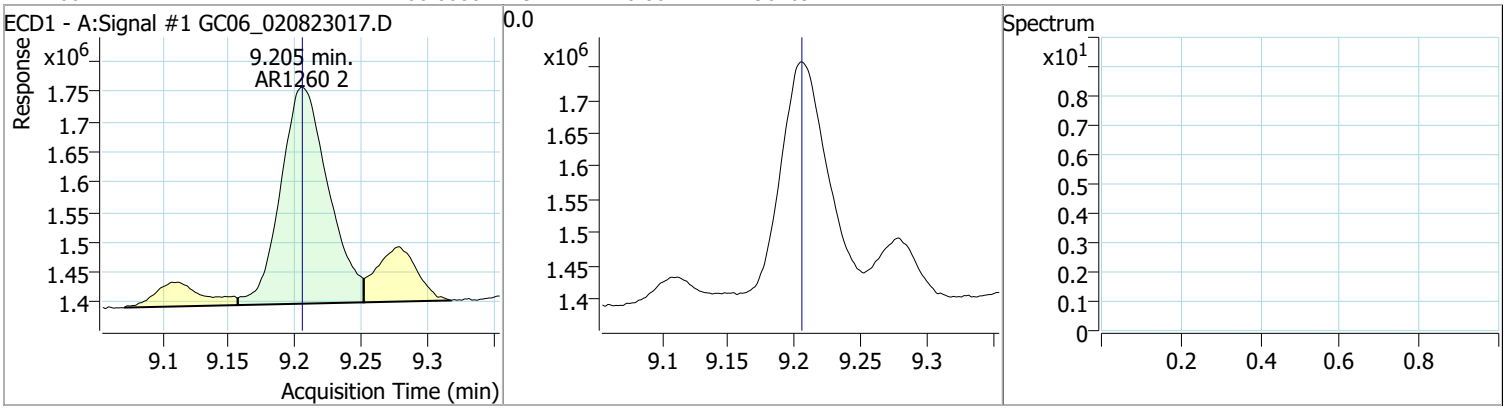
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AR1016 5 #2	103.4498	7.80	0.00	1120286				



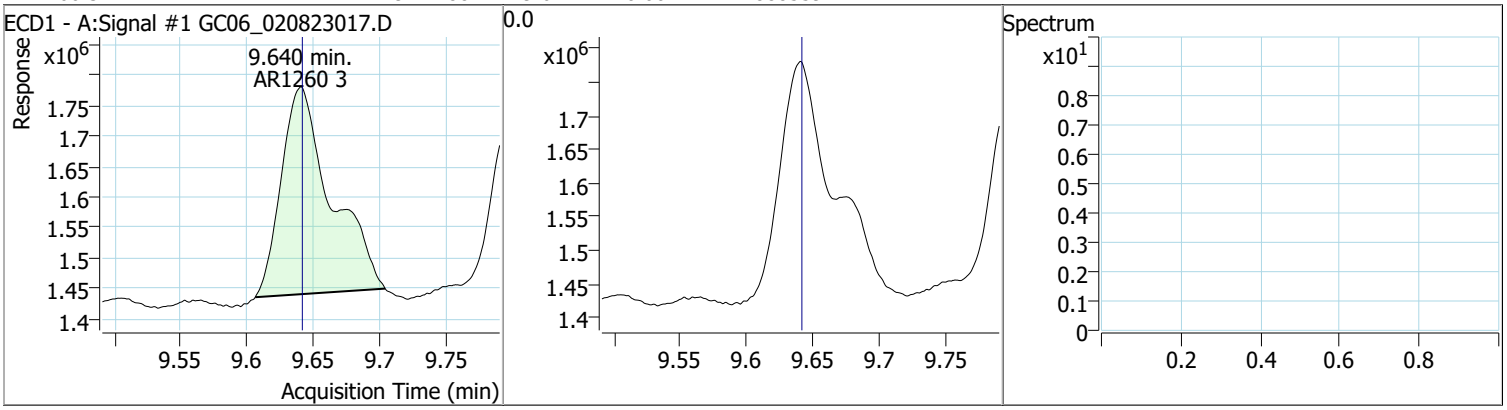
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	98.3684	8.72	0.00	600688				



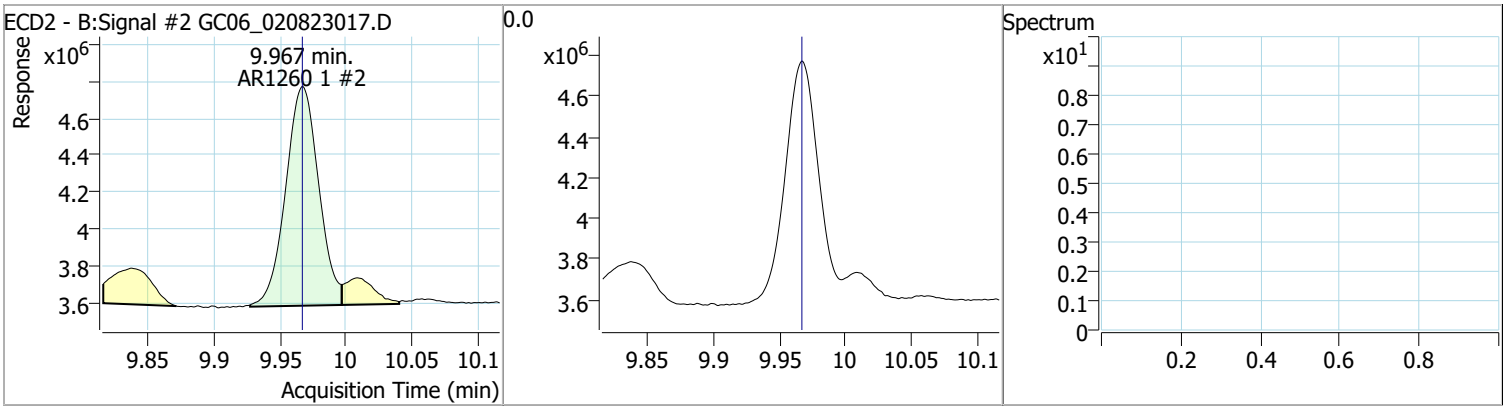
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	106.0088	9.21	0.00	902691				



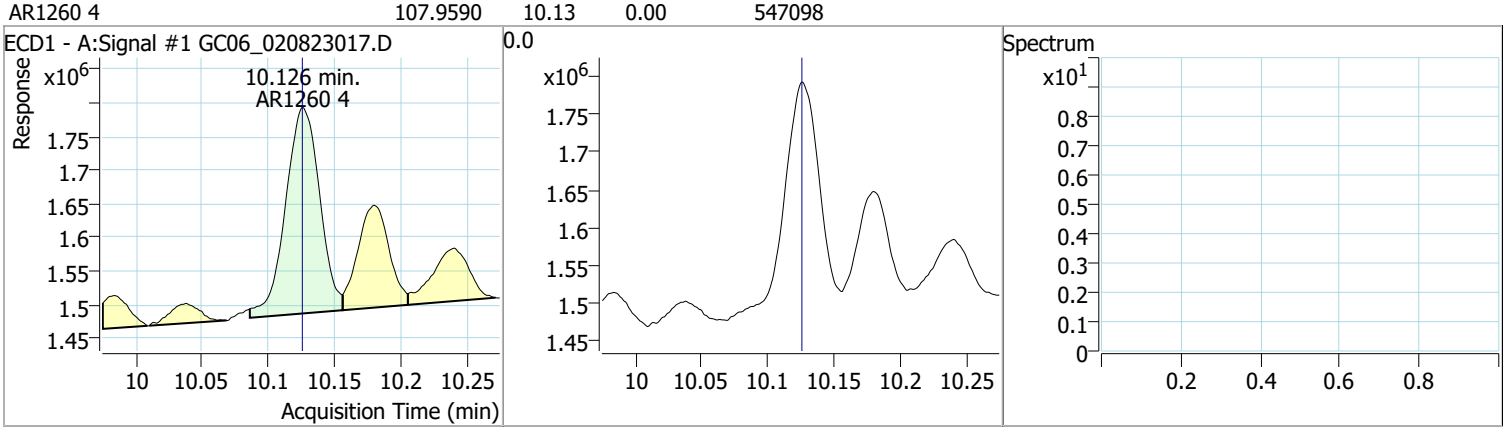
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	92.4788	9.64	0.00	888559				



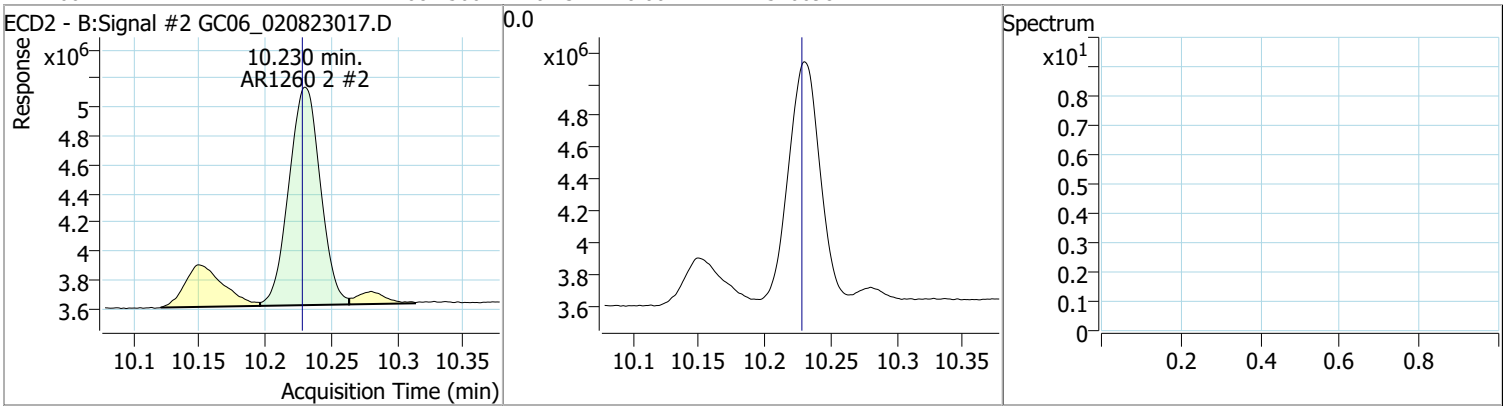
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	104.0168	9.97	0.00	2059144				



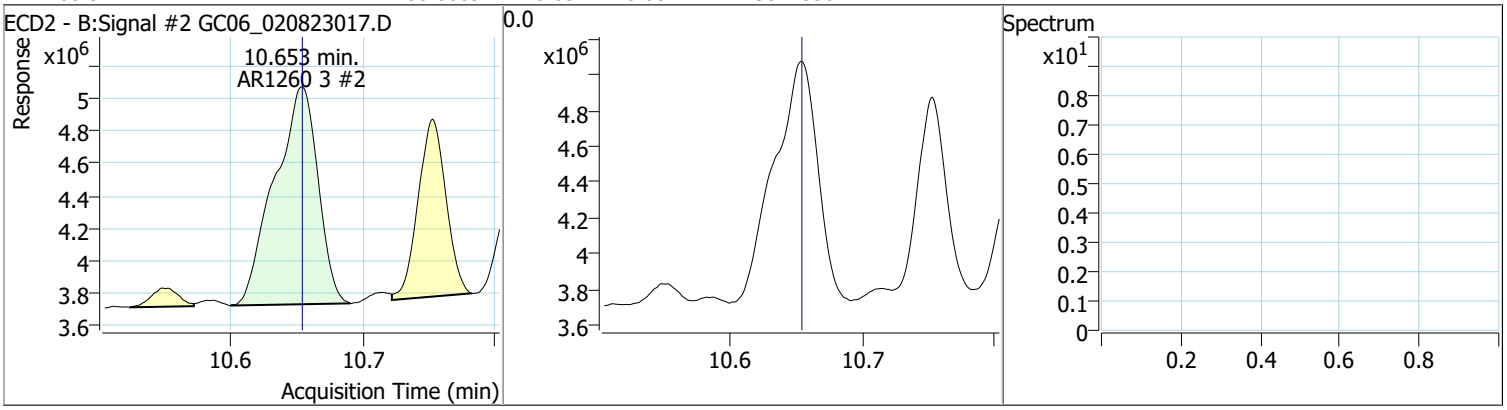
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	107.9590	10.13	0.00	547098				



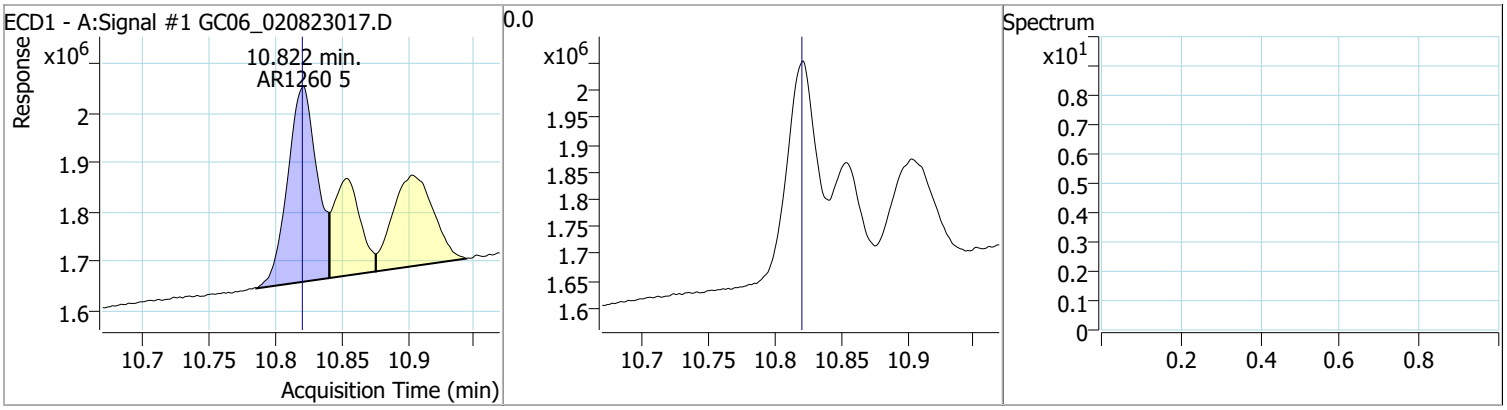
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	108.1566	10.23	0.00	2526698				



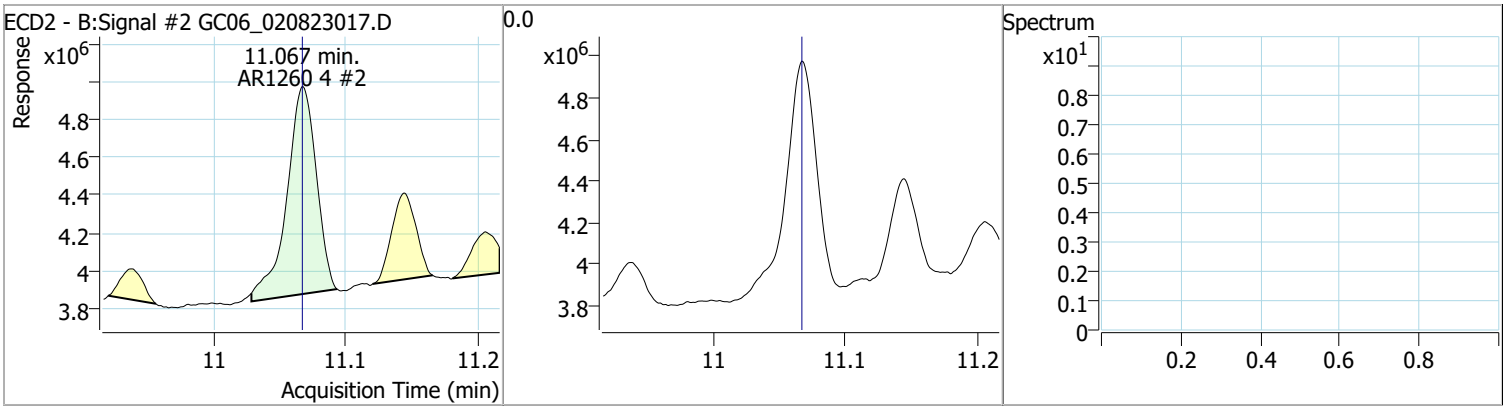
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	100.8609	10.65	0.00	3071856				



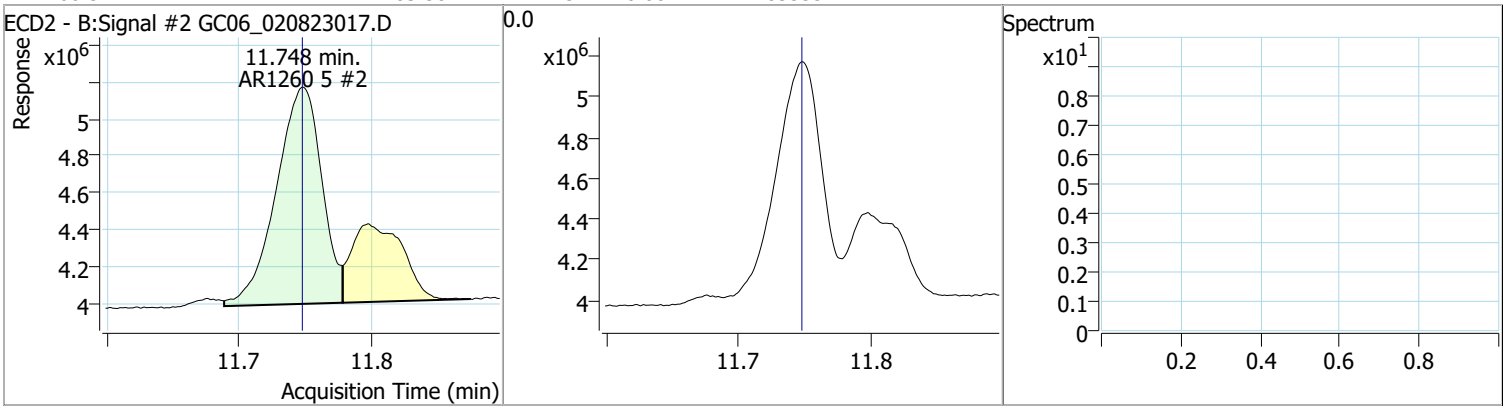
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	105.6133	10.82	0.00	609328				



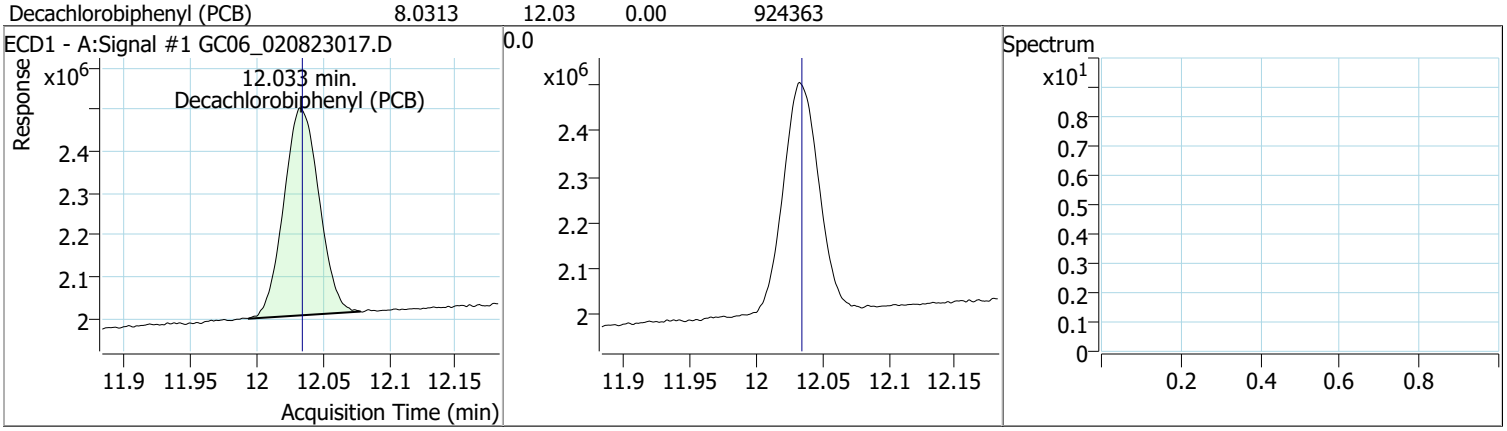
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	106.7484	11.07	0.00	1705733				



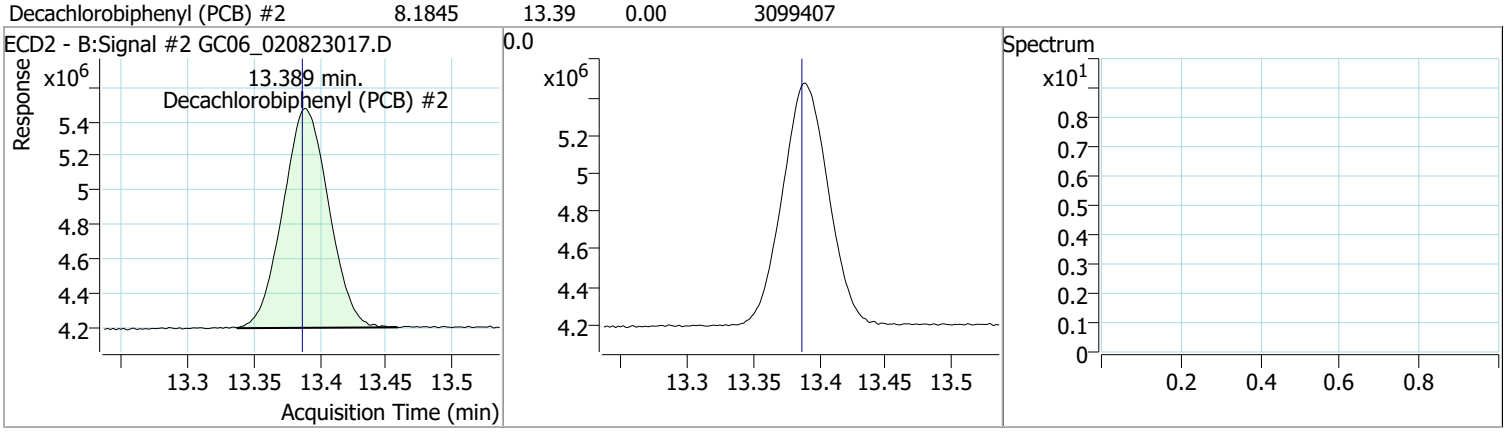
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	83.5827	11.75	0.00	2835557				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	8.0313	12.03	0.00	924363				

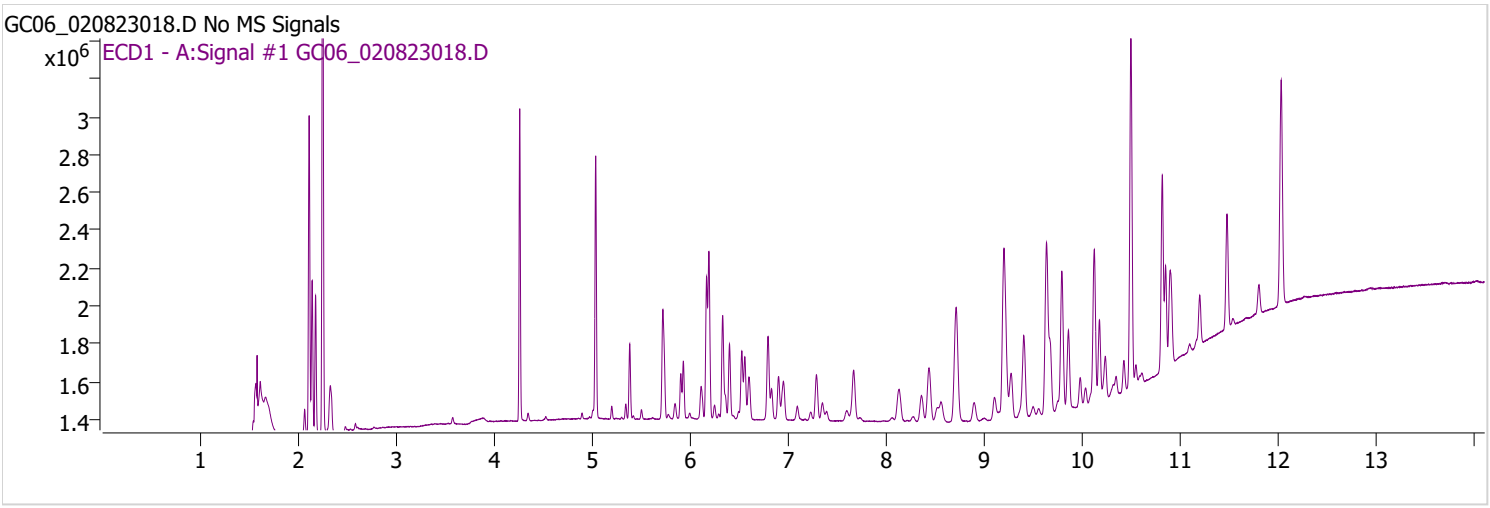


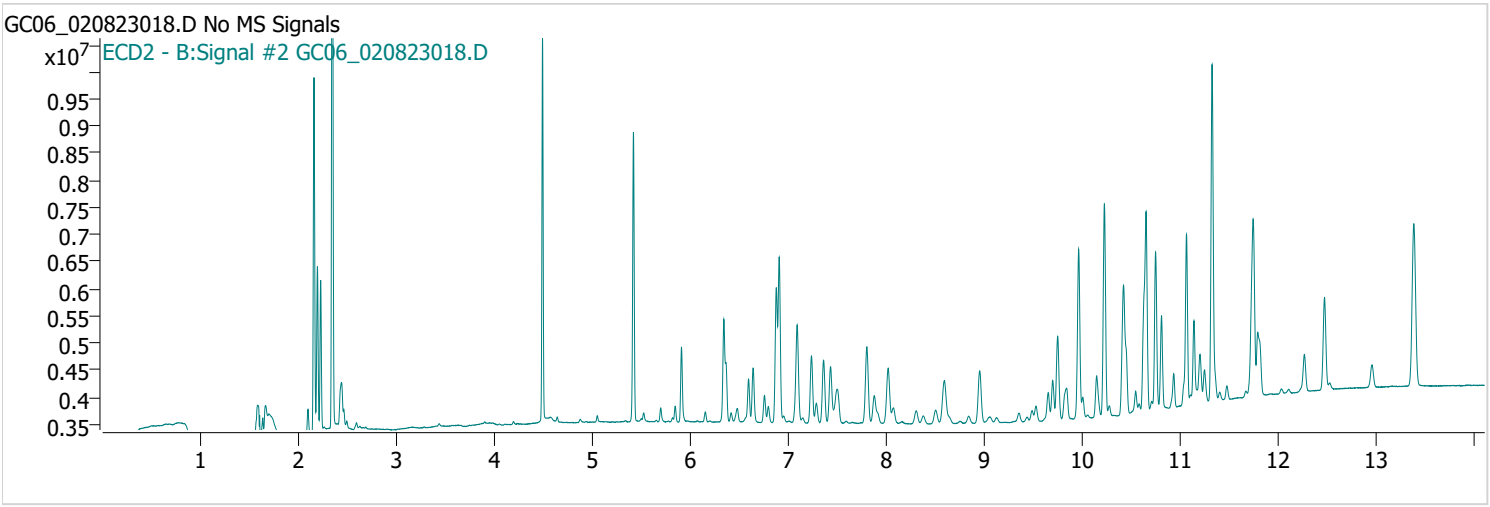
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	8.1845	13.39	0.00	3099407				



Quantitation Results Report (Not Reviewed)

Data File	GC06_020823018.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/8/2023 7:36:22 PM
Sample Name	ICAL, S17800	Instrument	SVOA-GC06
Vial	14	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	020823PCBICAL.batch.bin	Last Calib Update	2/9/2023 1:50:24 PM
Ref Library			



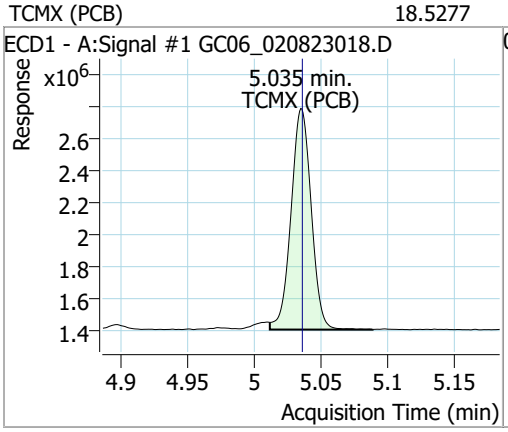


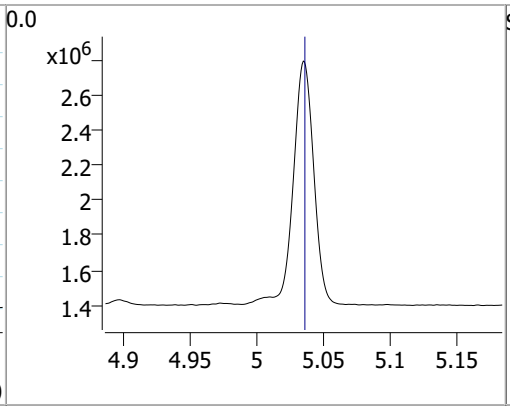
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.260	0.0	1516538.372	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.493	0.0	6346176.060	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	5.035	0.0	1477901.492	18.5277	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 92.64%		
S TCMX (PCB) #2	5.421	0.0	5861708.014	18.1895	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 90.95%		
S Decachlorobiphenyl (PCB)	12.035	0.0	2231740.386	19.2883	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 96.44%		
S Decachlorobiphenyl (PCB) #2	13.389	0.0	7507904.017	19.5966	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 97.98%		
Target Compounds						QValue

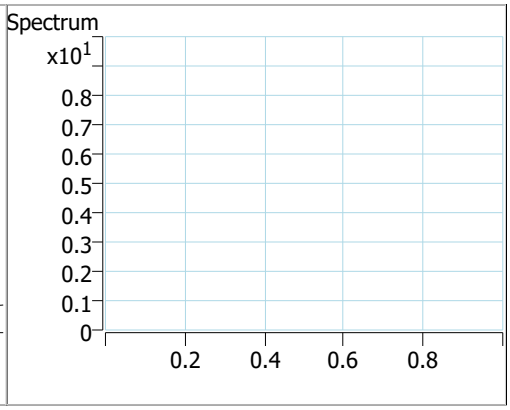
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.383	0.0	446122.533	273.1344	ng/ml		100
T AR1016 2	5.722	0.0	994760.240	296.6429	ng/ml		100
T AR1016 1 #2	5.912	0.0	1757384.377	265.0513	ng/ml		100
T AR1016 3	6.192	0.0	1194444.342	251.9735	ng/ml		100
T AR1016 4	6.333	0.0	904320.481	247.4728	ng/ml		100
T AR1016 2 #2	6.344	0.0	3849719.913	248.4243	ng/ml		100
T AR1016 5	6.528	0.0	526676.914	295.6240	ng/ml	m	100
T AR1016 3 #2	6.909	0.0	4758960.321	250.9845	ng/ml		100
T AR1016 4 #2	7.093	0.0	3563832.518	263.5842	ng/ml		100
T AR1016 5 #2	7.804	0.0	2901382.410	264.8212	ng/ml		100
T AR1260 1	8.716	0.0	1586941.169	258.5093	ng/ml		100
T AR1260 2	9.204	0.0	2361272.977	275.8401	ng/ml		100
T AR1260 3	9.638	0.0	2567751.785	265.8385	ng/ml		100
T AR1260 1 #2	9.967	0.0	5370077.473	268.1296	ng/ml		100
T AR1260 4	10.127	0.0	1494042.887	293.2684	ng/ml		100
T AR1260 2 #2	10.229	0.0	6531644.721	276.3565	ng/ml		100
T AR1260 3 #2	10.655	0.0	8259369.288	268.0504	ng/ml		100
T AR1260 5	10.821	0.0	1643895.891	283.4328	ng/ml		100
T AR1260 4 #2	11.068	0.0	4325329.467	267.5572	ng/ml		100
T AR1260 5 #2	11.748	0.0	7754849.926	293.2080	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

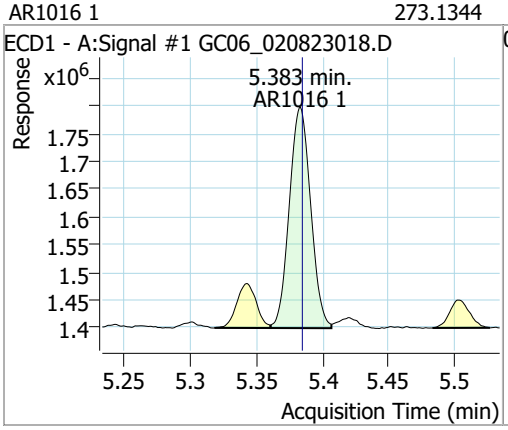
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	18.5277	5.04	0.00	1477901				

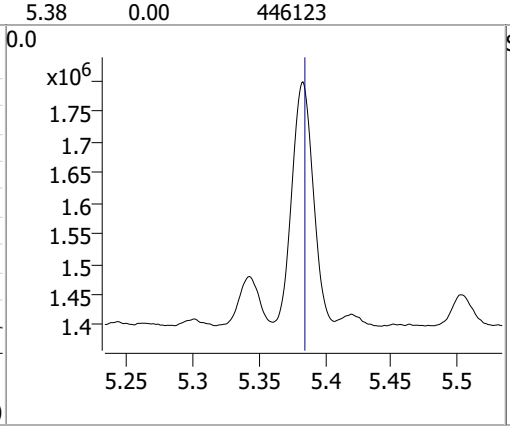


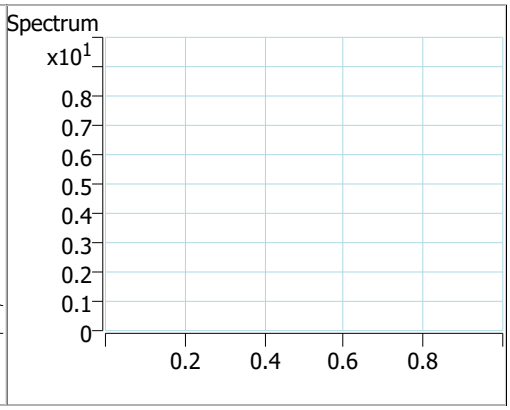




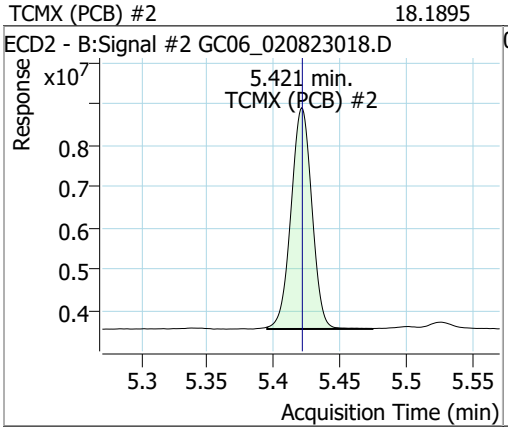
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	273.1344	5.38	0.00	446123				

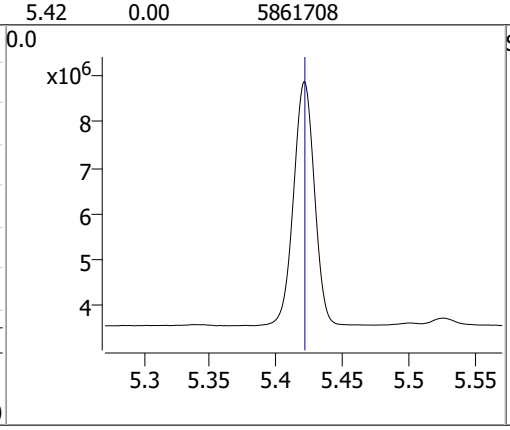


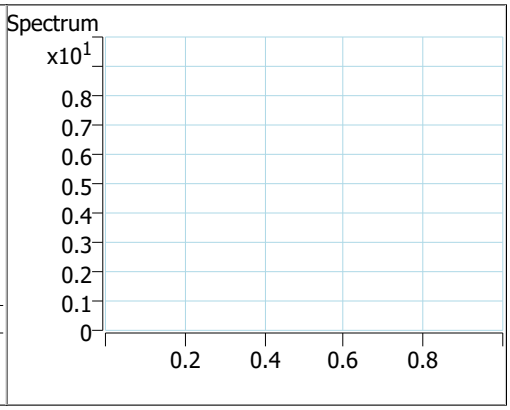




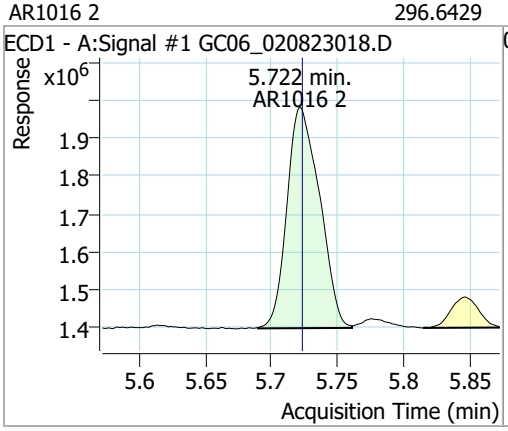
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	18.1895	5.42	0.00	5861708				

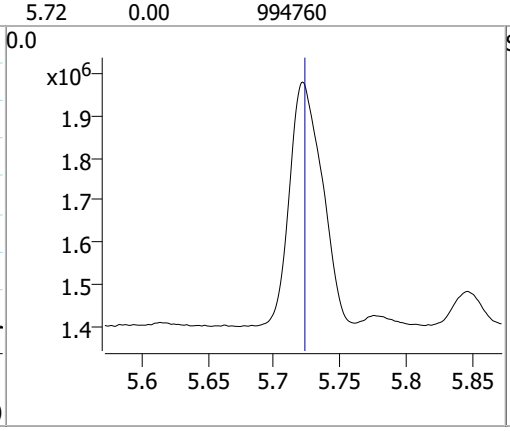


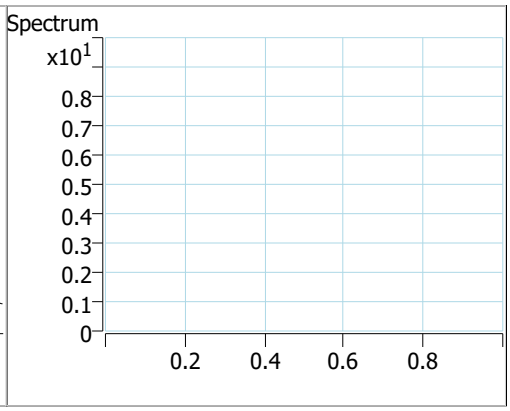




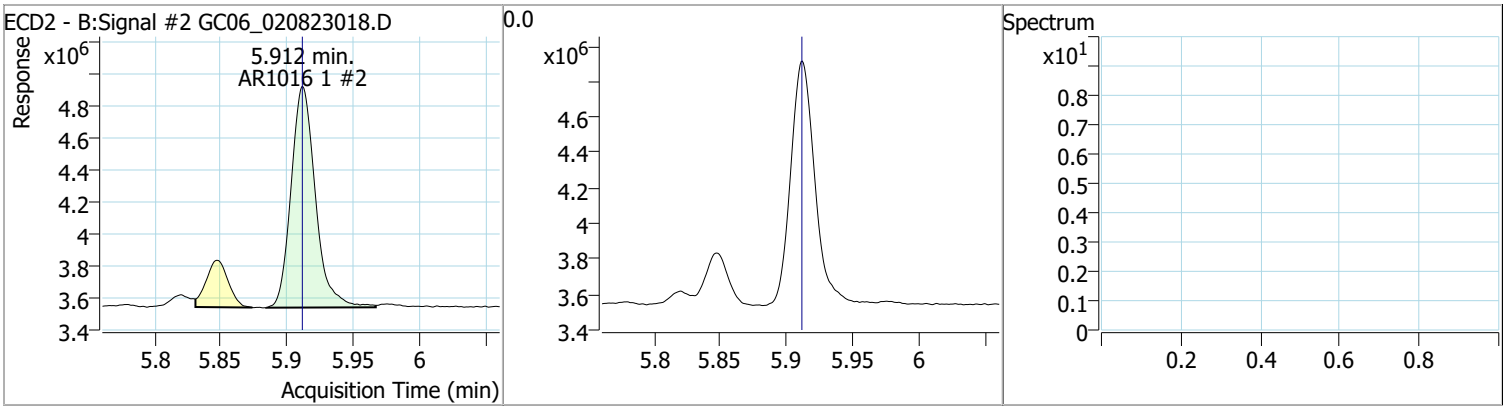
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	296.6429	5.72	0.00	994760				



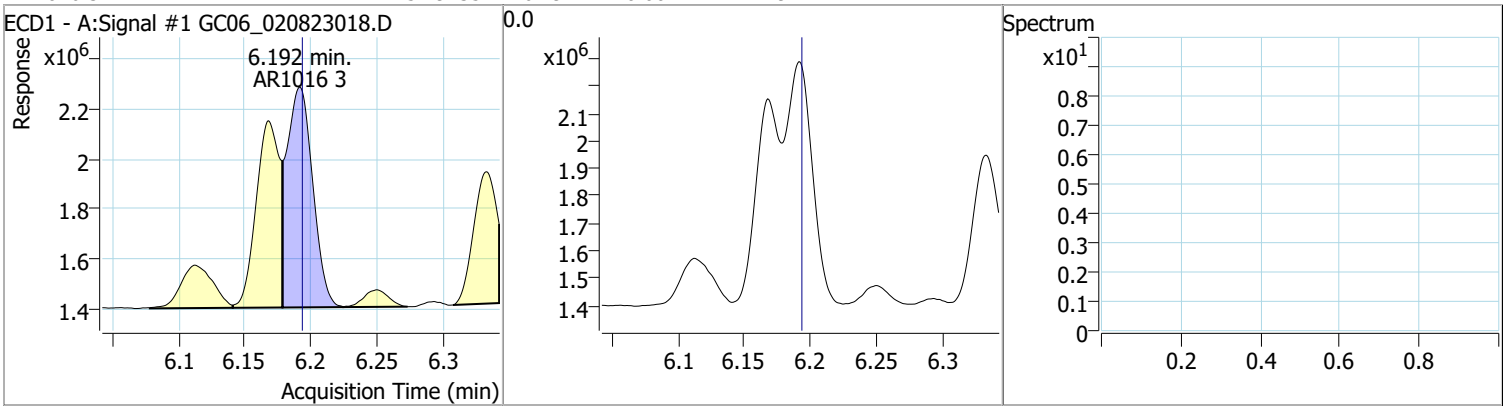




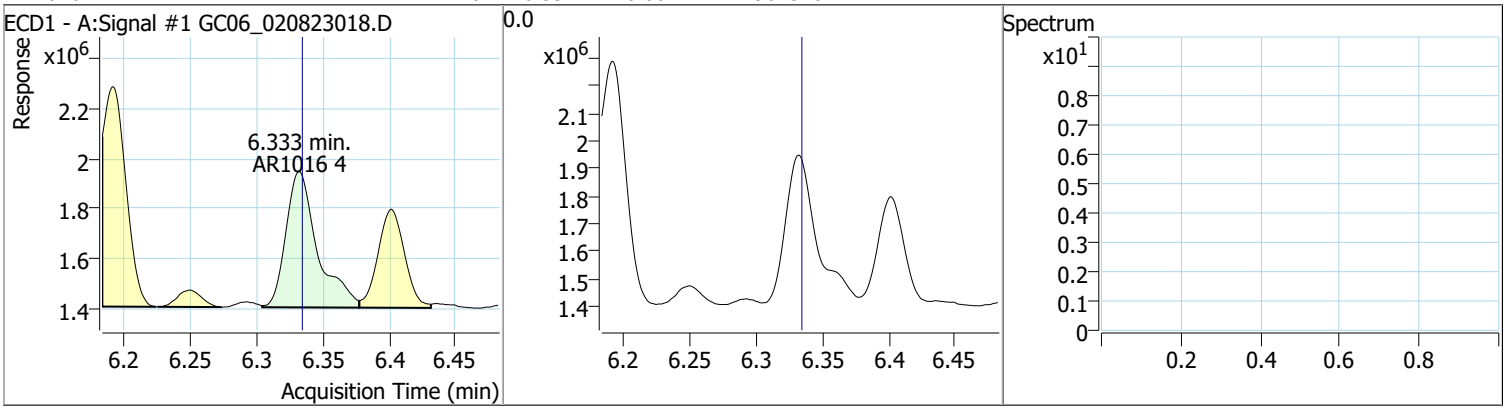
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	265.0513	5.91	0.00	1757384				



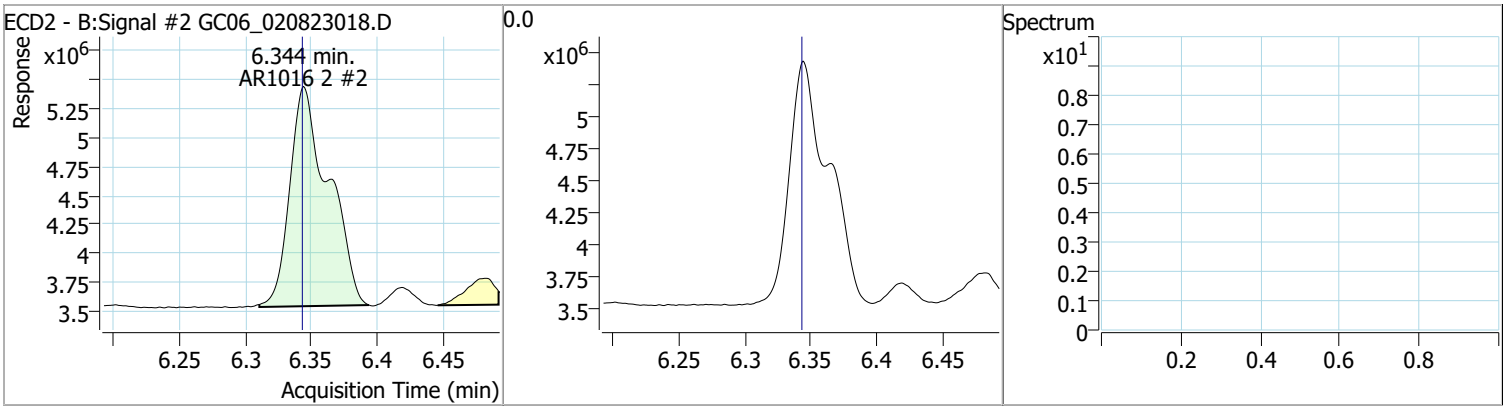
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	251.9735	6.19	0.00	1194444				



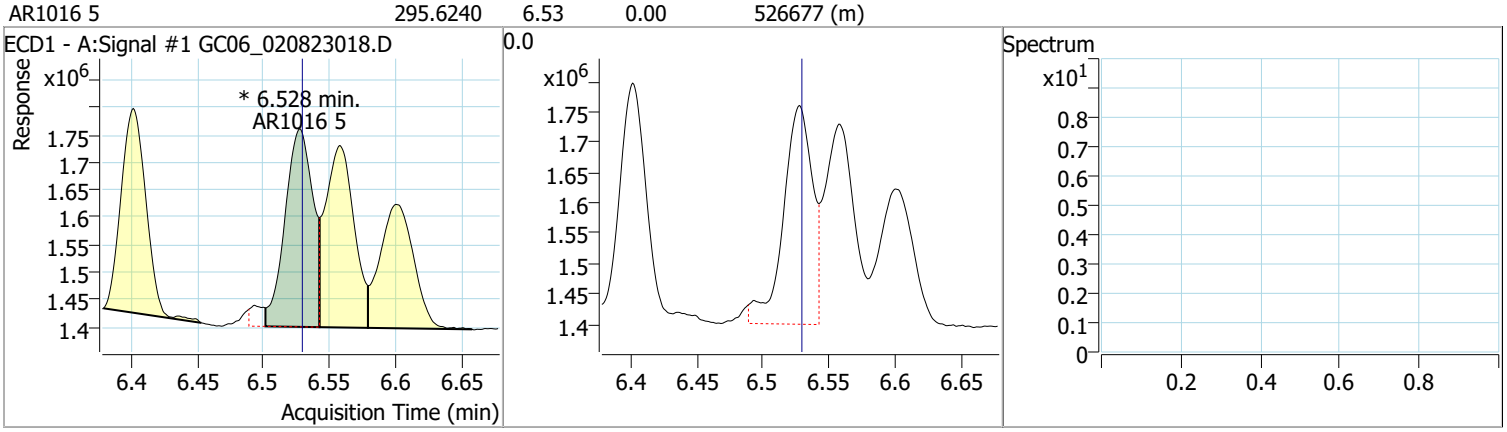
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	247.4728	6.33	0.00	904320				



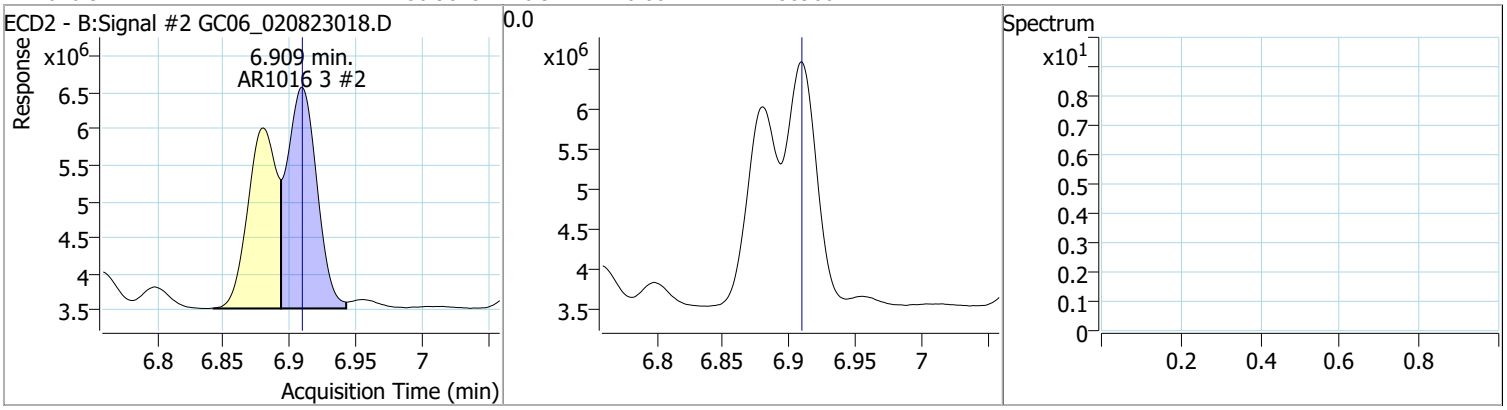
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	248.4243	6.34	0.00	3849720				



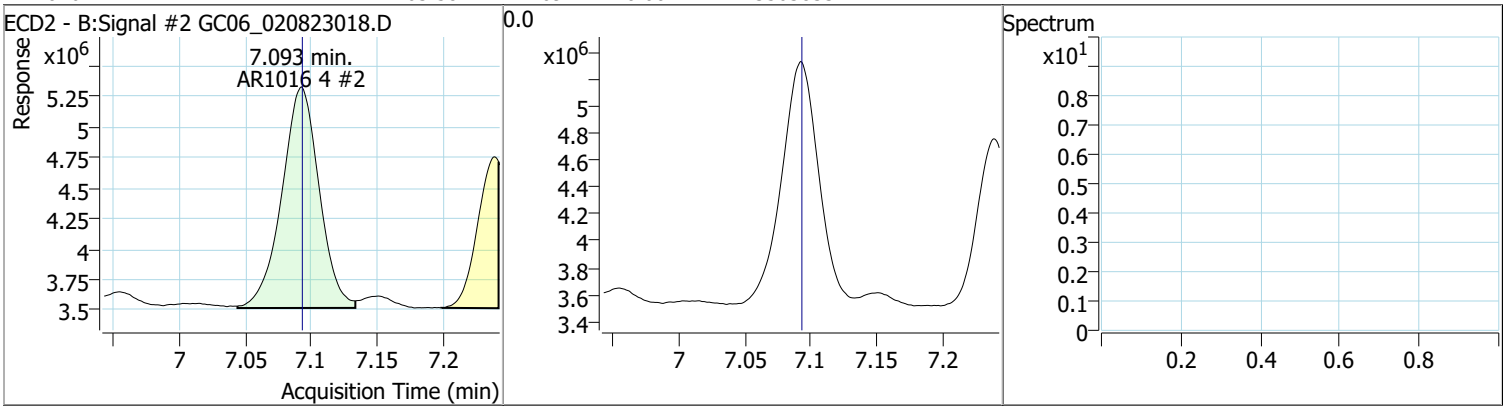
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	295.6240	6.53	0.00	526677 (m)				



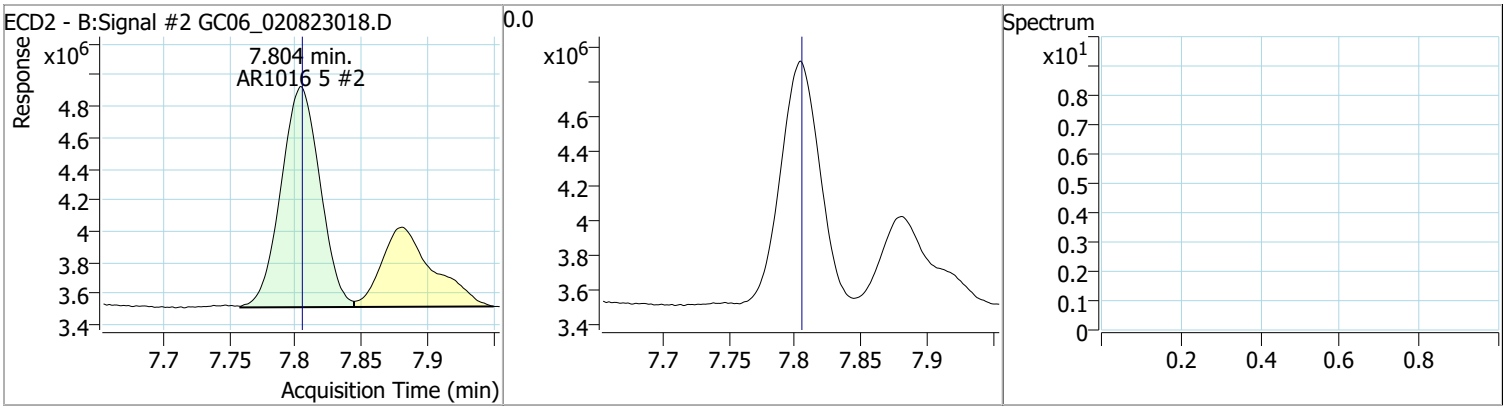
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	250.9845	6.91	0.00	4758960				



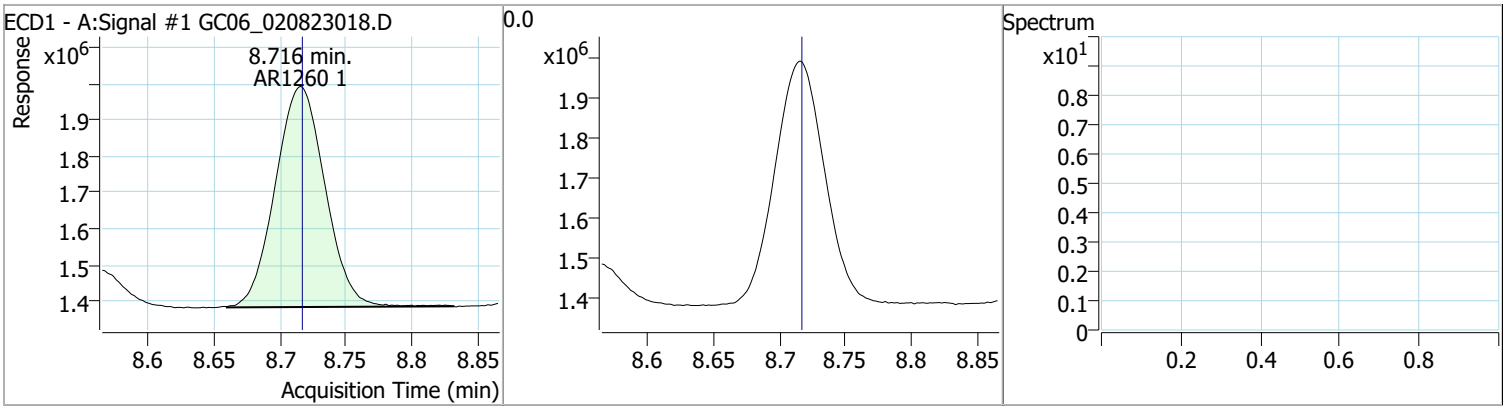
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AR1016 4 #2	263.5842	7.09	0.00	3563833				



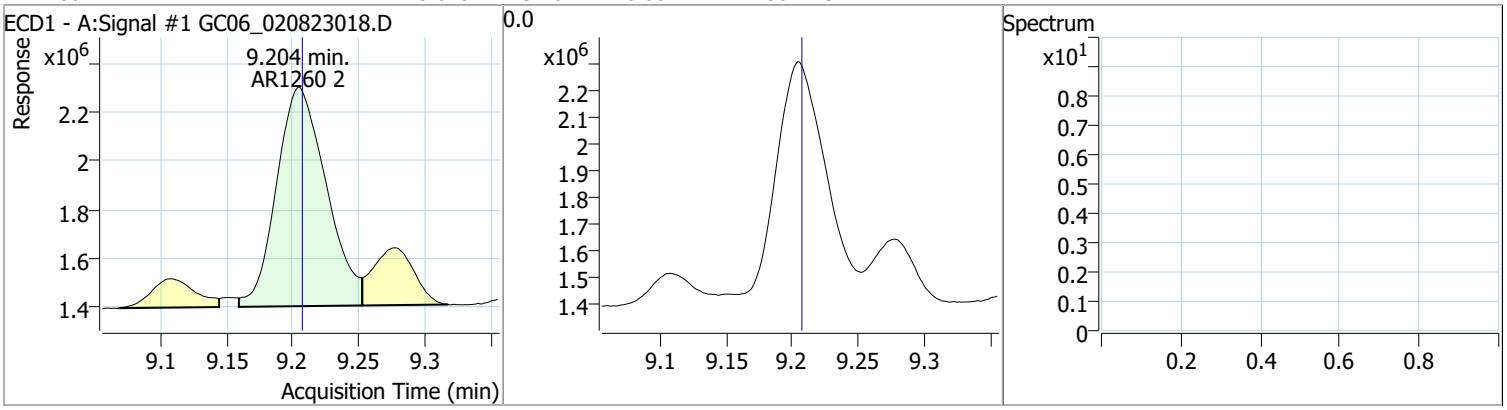
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	264.8212	7.80	0.00	2901382				



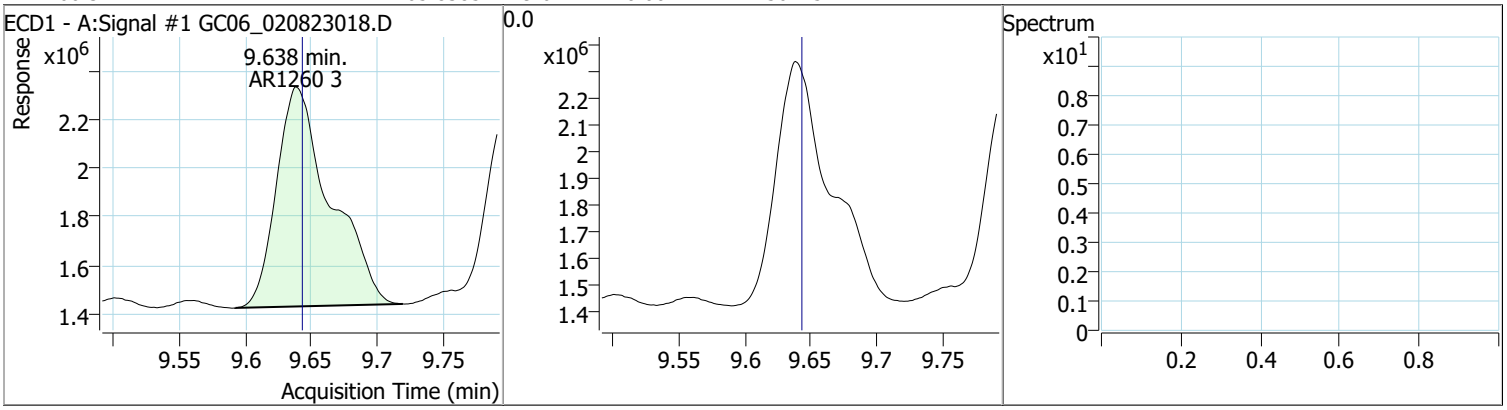
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	258.5093	8.72	0.00	1586941				



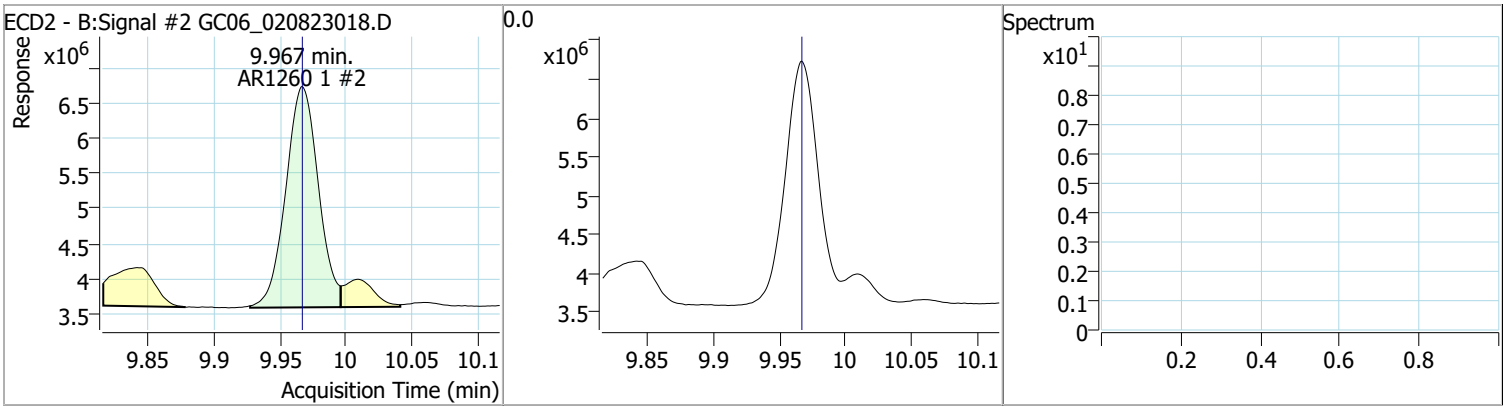
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	275.8401	9.20	0.00	2361273				



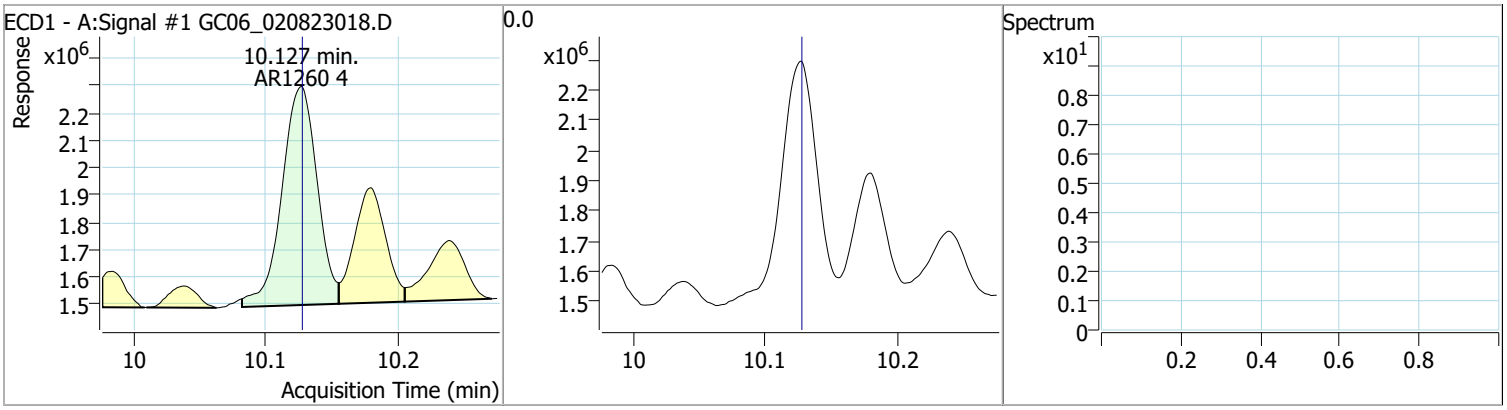
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	265.8385	9.64	0.00	2567752				



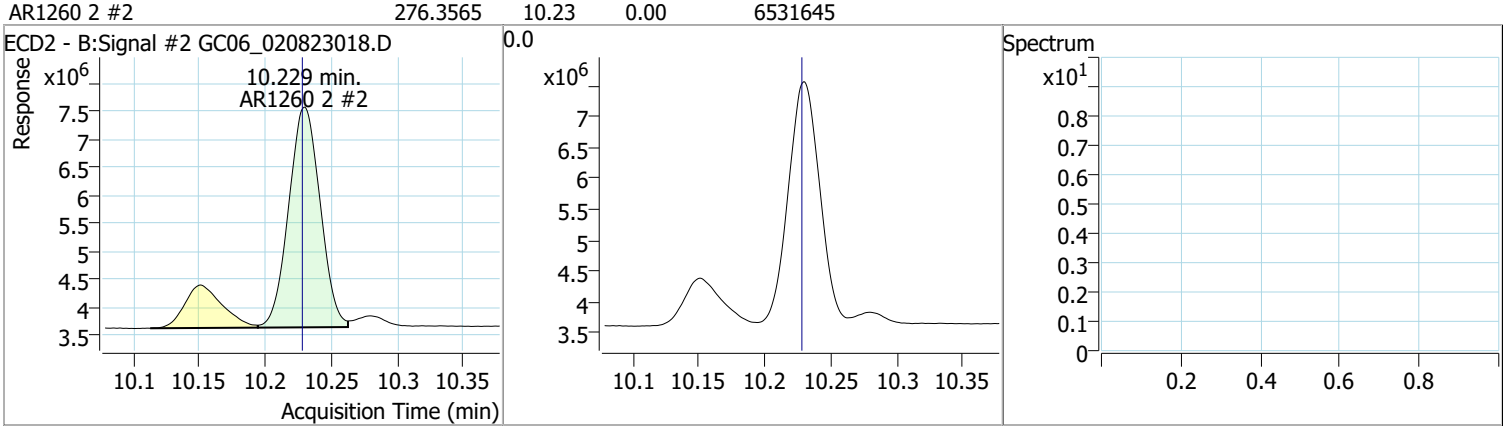
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	268.1296	9.97	0.00	5370077				



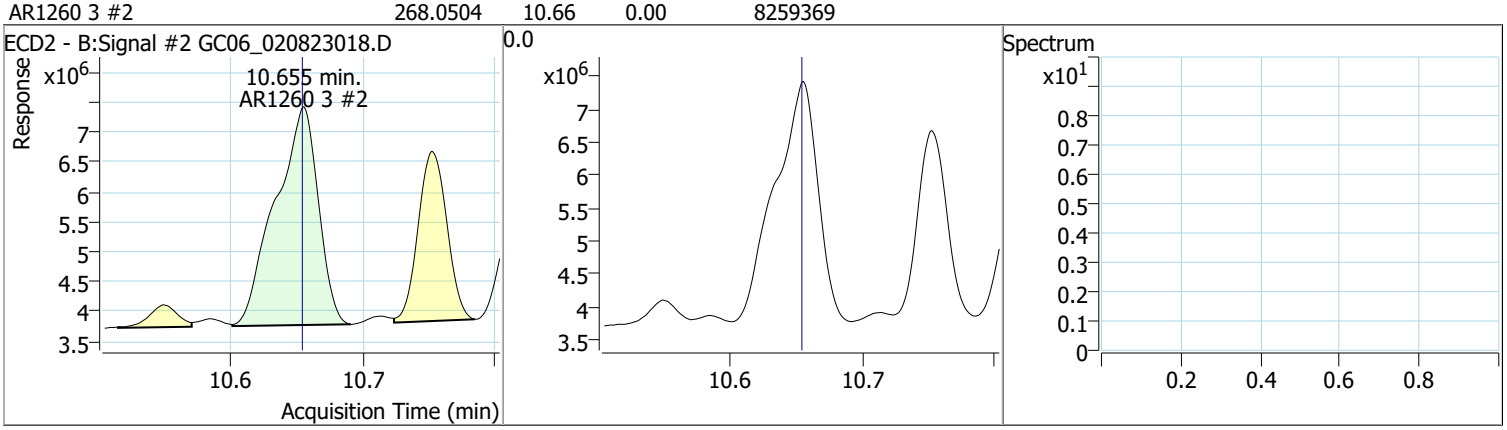
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	293.2684	10.13	0.00	1494043				



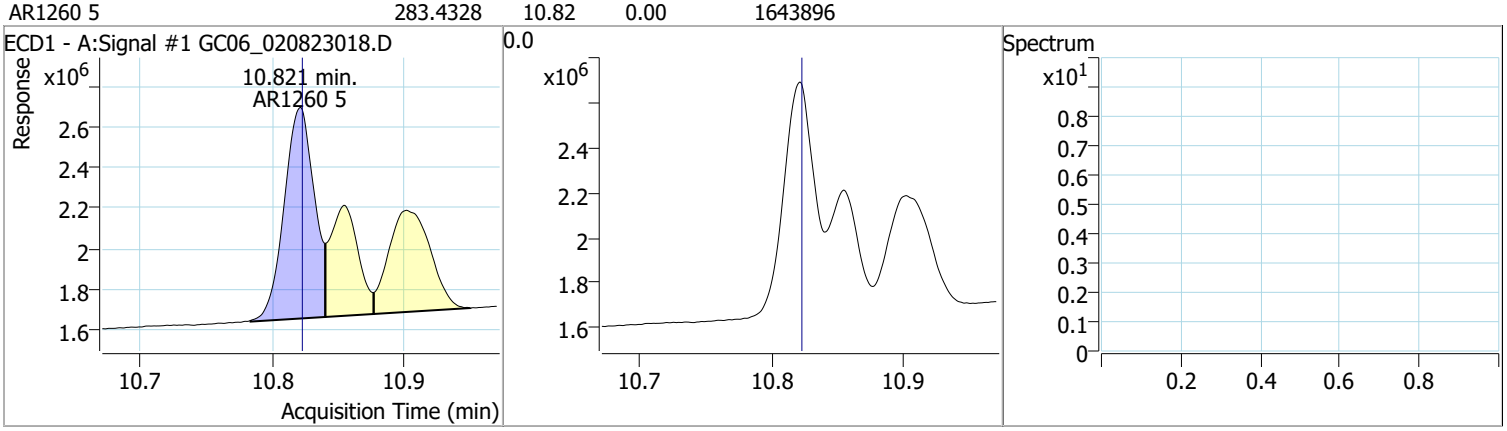
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	276.3565	10.23	0.00	6531645				



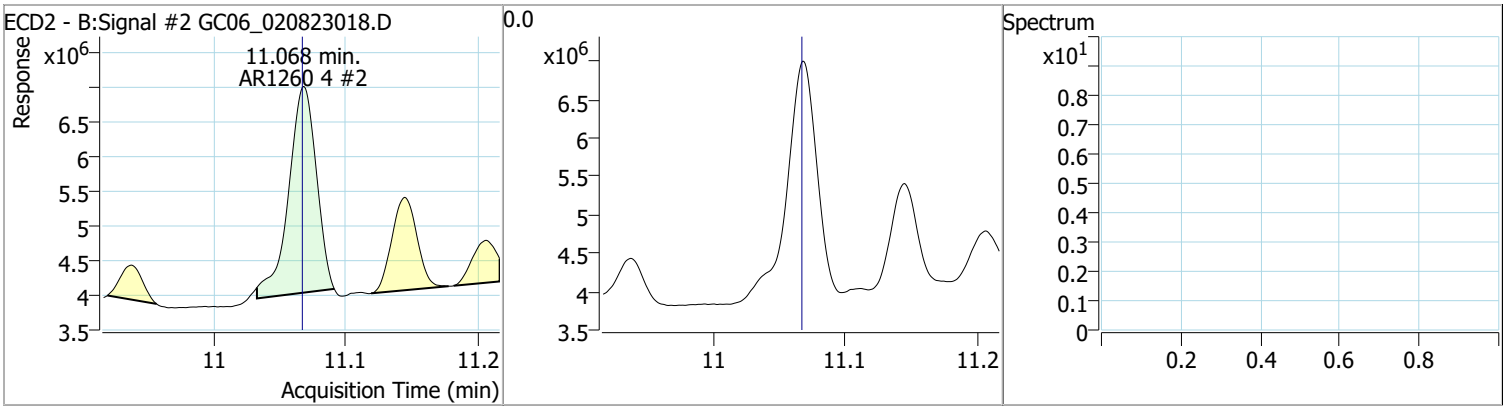
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	268.0504	10.66	0.00	8259369				



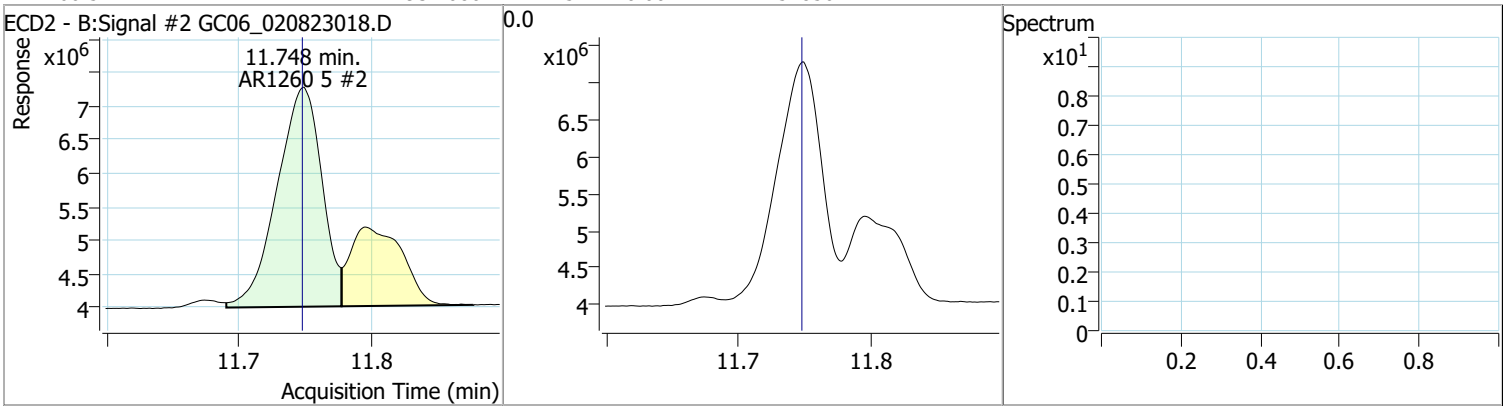
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	283.4328	10.82	0.00	1643896				



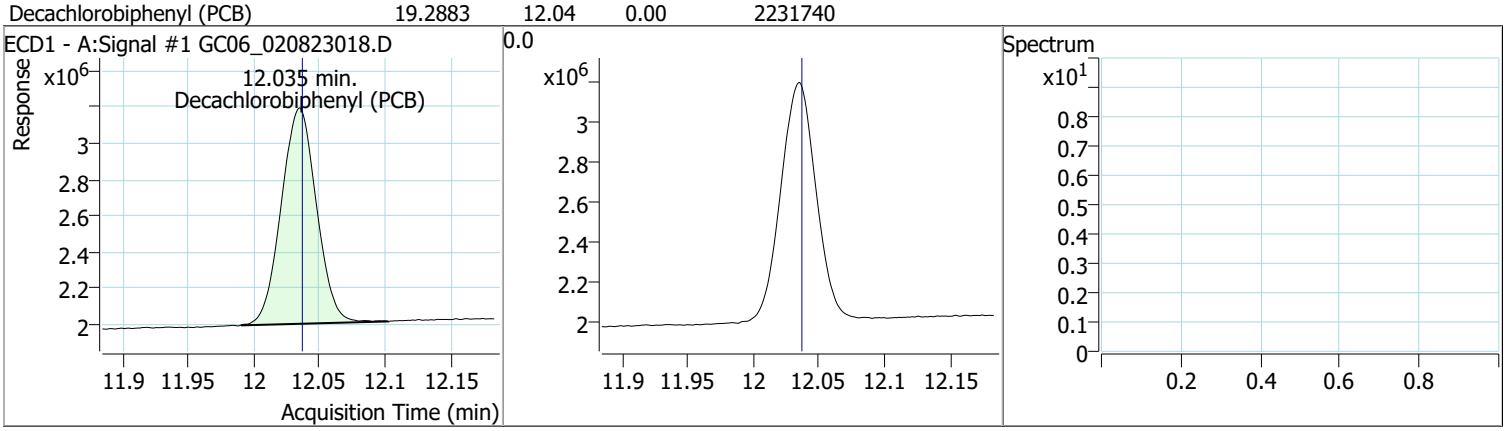
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	267.5572	11.07	0.00	4325329				



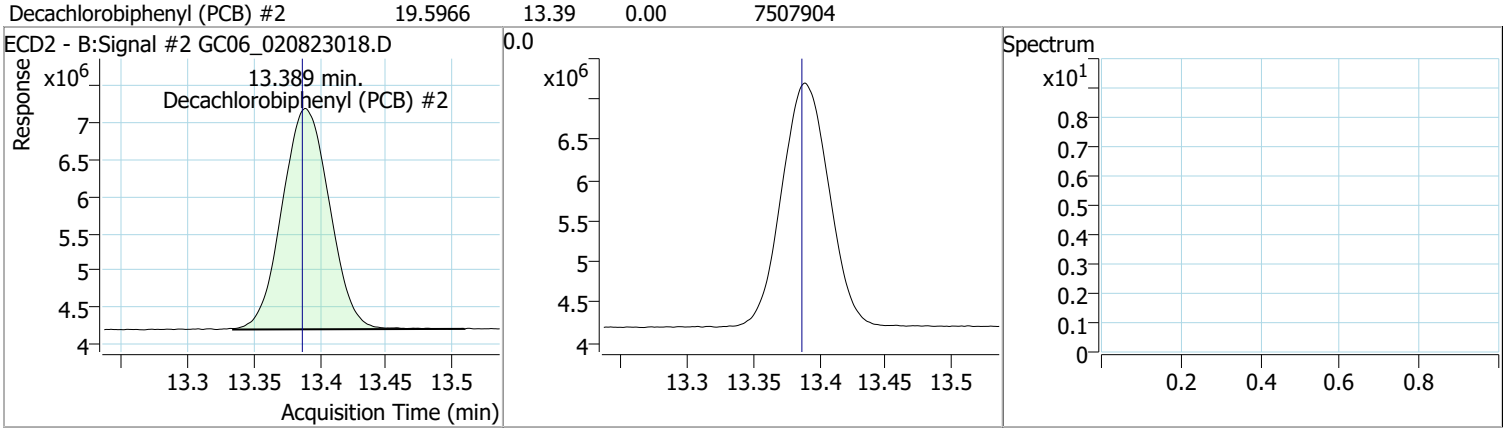
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	293.2080	11.75	0.00	7754850				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	19.2883	12.04	0.00	2231740				

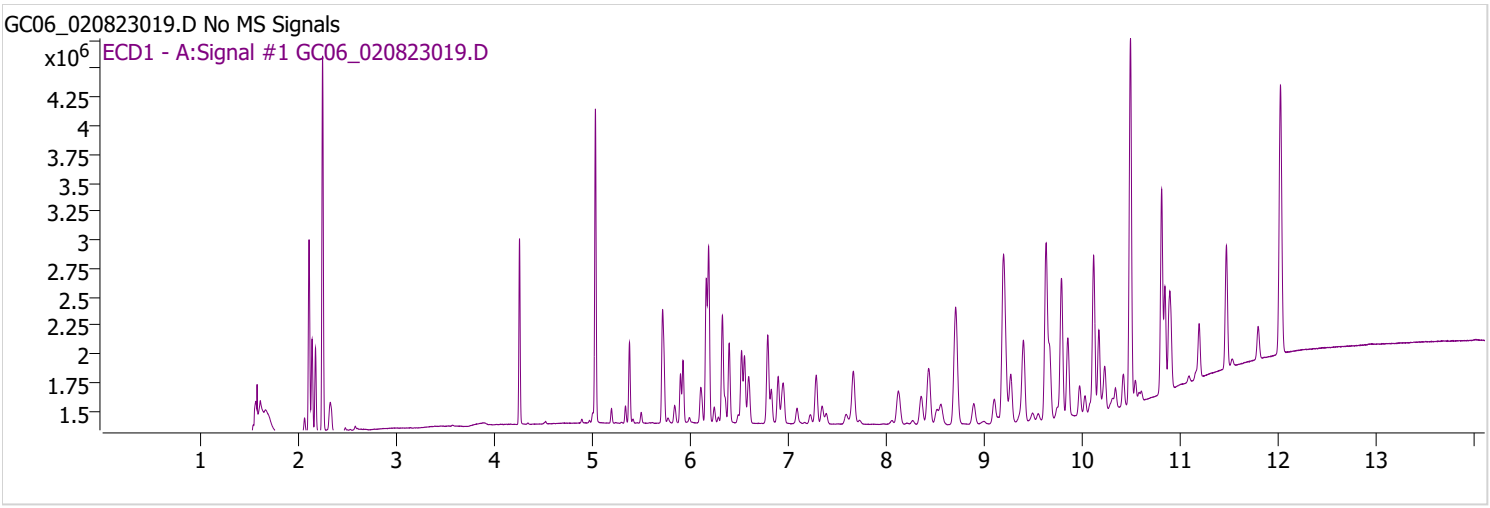


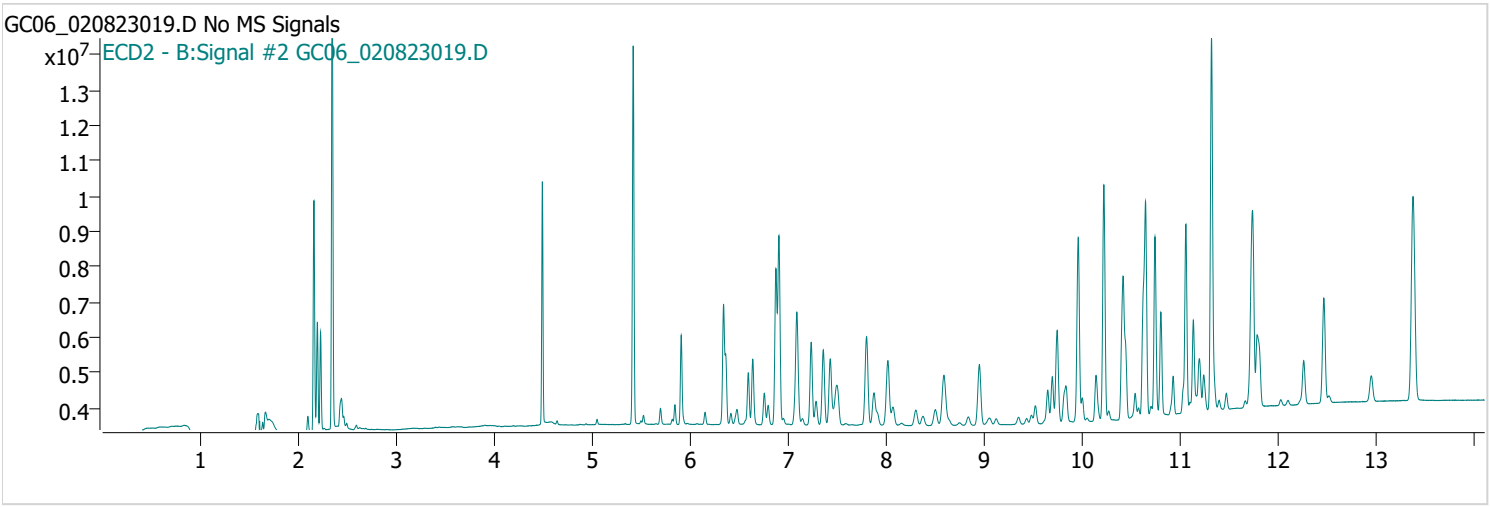
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	19.5966	13.39	0.00	7507904				



Quantitation Results Report (Not Reviewed)

Data File	GC06_020823019.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/8/2023 7:54:42 PM
Sample Name	ICAL, S17801	Instrument	SVOA-GC06
Vial	15	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	020823PCBICAL.batch.bin	Last Calib Update	2/9/2023 1:50:24 PM
Ref Library			



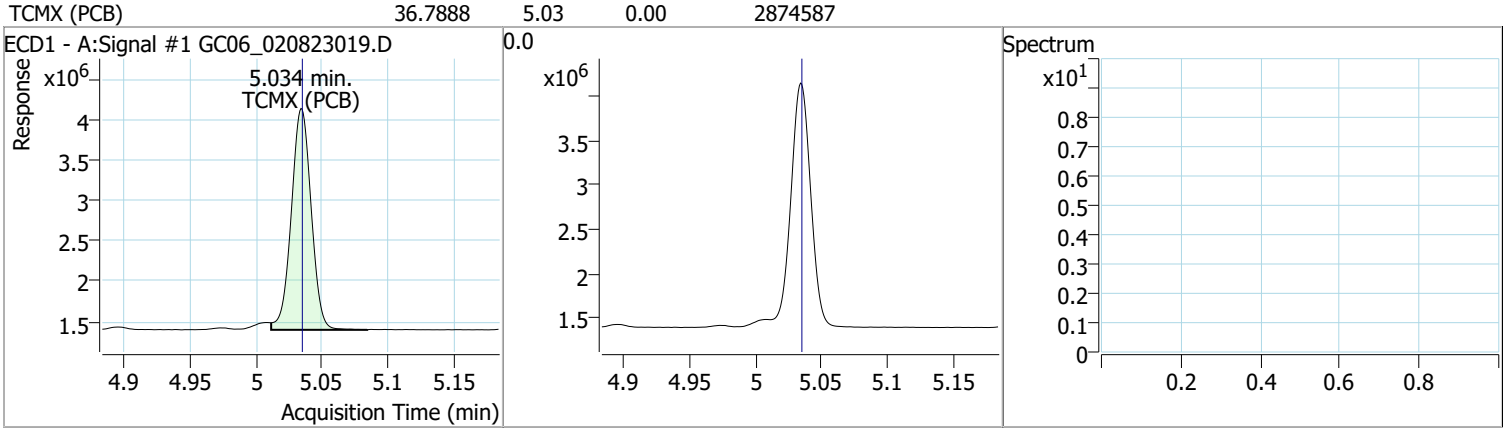


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.259	0.0	1485558.286	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.493	0.0	6162771.833	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.034	0.0	2874587.288	36.7888	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 183.94%		*	
S TCMX (PCB) #2	5.421	0.0	11792543.741	37.6824	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 188.41%		*	
S Decachlorobiphenyl (PCB)	12.033	0.0	4450249.626	39.2643	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 196.32%		*	
S Decachlorobiphenyl (PCB) #2	13.387	0.0	14727256.564	39.5840	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 197.92%		*	
Target Compounds							QValue

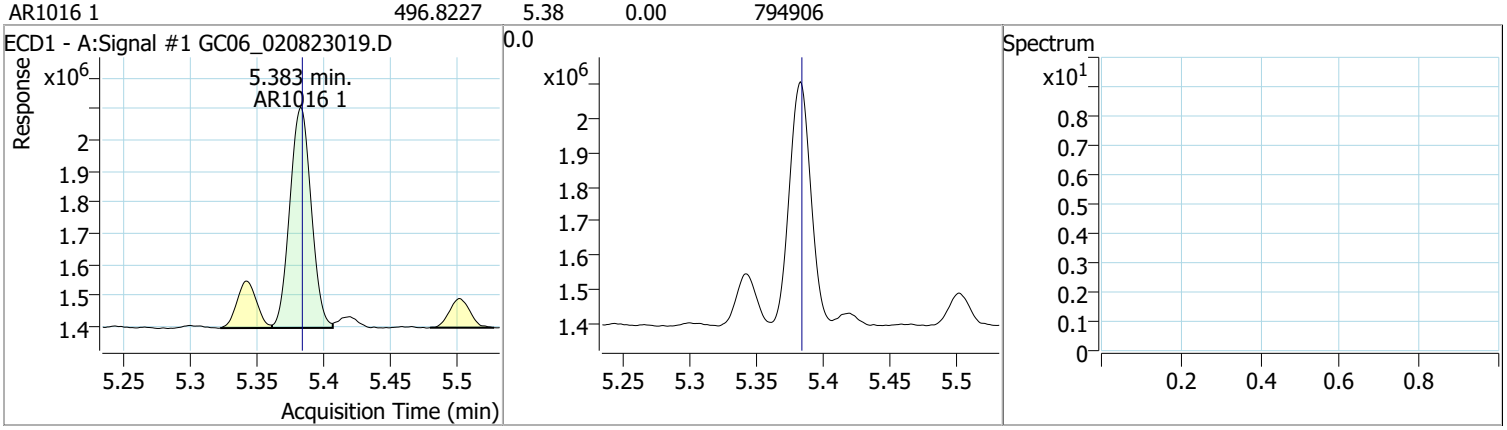
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.383	0.0	794905.508	496.8227	ng/ml	100
T AR1016 2	5.721	0.0	1717230.846	560.0830	ng/ml	100
T AR1016 1 #2	5.911	0.0	3188658.018	495.2302	ng/ml	100
T AR1016 3	6.191	0.0	2108930.421	454.1662	ng/ml	100
T AR1016 4	6.332	0.0	1606641.858	448.8362	ng/ml	100
T AR1016 2 #2	6.343	0.0	6959933.162	462.4939	ng/ml	100
T AR1016 5	6.528	0.0	943285.931	540.5084	ng/ml	100
T AR1016 3 #2	6.909	0.0	8640556.859	469.2589	ng/ml	100
T AR1016 4 #2	7.093	0.0	6355226.815	484.0266	ng/ml	100
T AR1016 5 #2	7.805	0.0	5252877.455	493.7205	ng/ml	100
T AR1260 1	8.714	0.0	2670074.656	444.0199	ng/ml	100
T AR1260 2	9.204	0.0	3951287.665	471.2089	ng/ml	100
T AR1260 3	9.640	0.0	4263165.754	450.5684	ng/ml	100
T AR1260 1 #2	9.967	0.0	9288711.510	477.5906	ng/ml	100
T AR1260 4	10.124	0.0	2518469.685	504.6644	ng/ml	100
T AR1260 2 #2	10.228	0.0	11087063.554	483.0585	ng/ml	100
T AR1260 3 #2	10.654	0.0	14097085.177	471.1236	ng/ml	100
T AR1260 5	10.819	0.0	2831556.851	498.3849	ng/ml	100
T AR1260 4 #2	11.067	0.0	8082989.967	514.8795	ng/ml	100
T AR1260 5 #2	11.748	0.0	13445739.659	554.5273	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

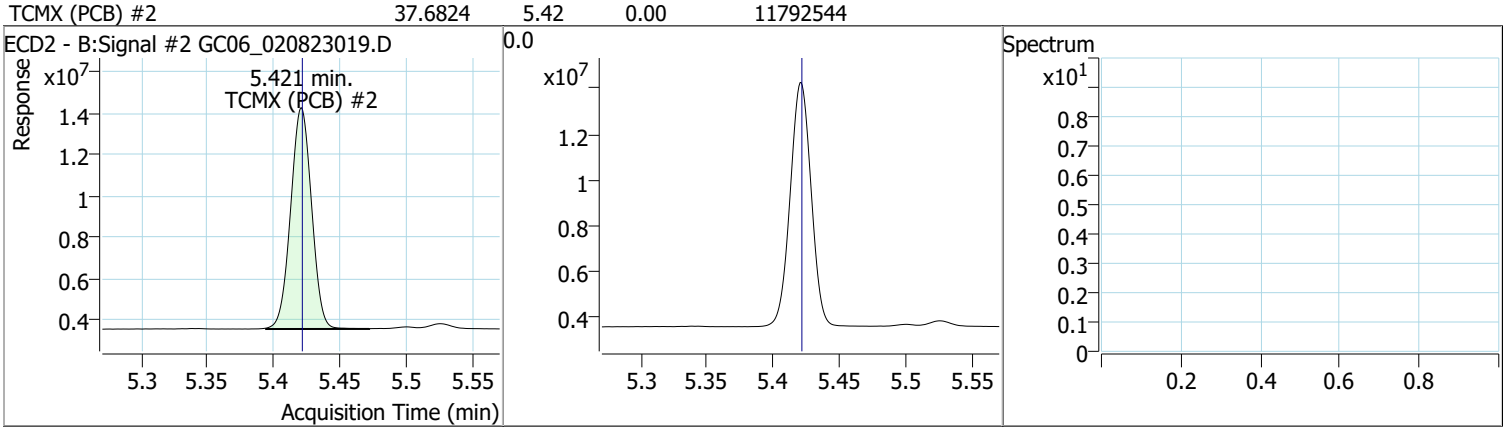
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	36.7888	5.03	0.00	2874587				



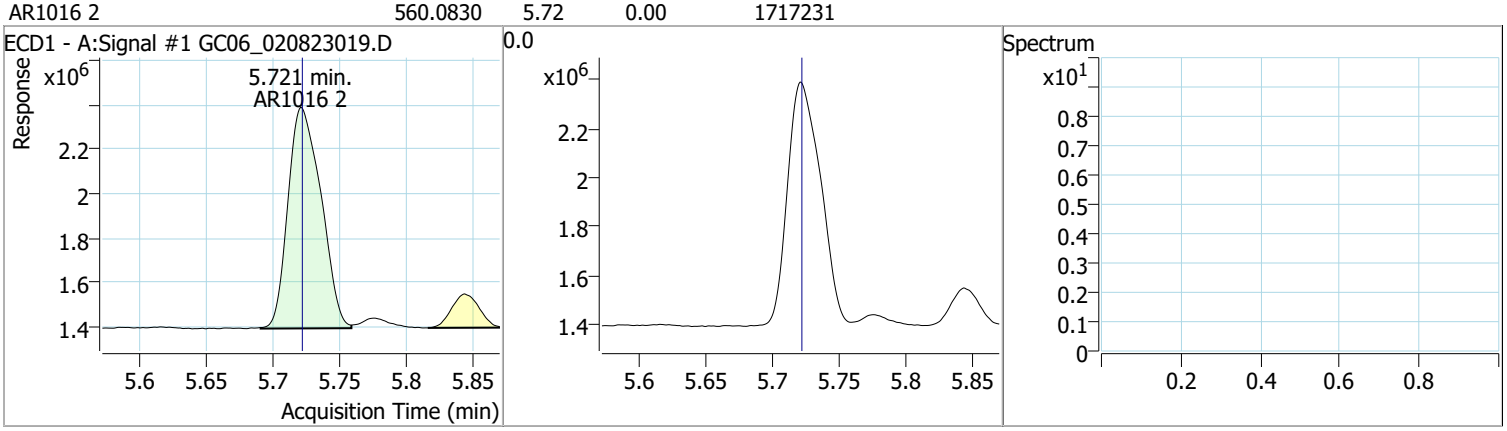
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	496.8227	5.38	0.00	794906				



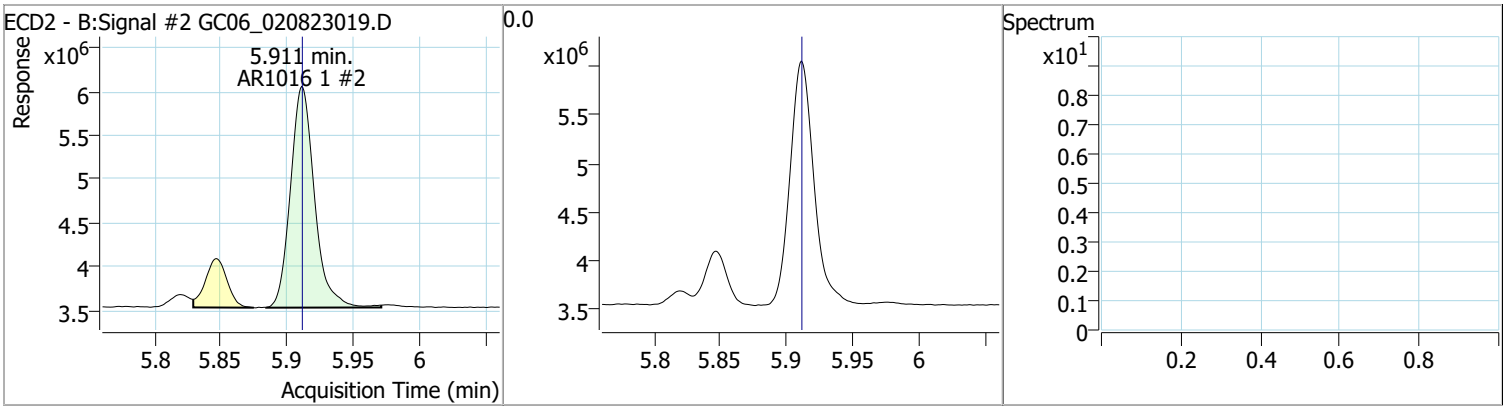
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	37.6824	5.42	0.00	11792544				



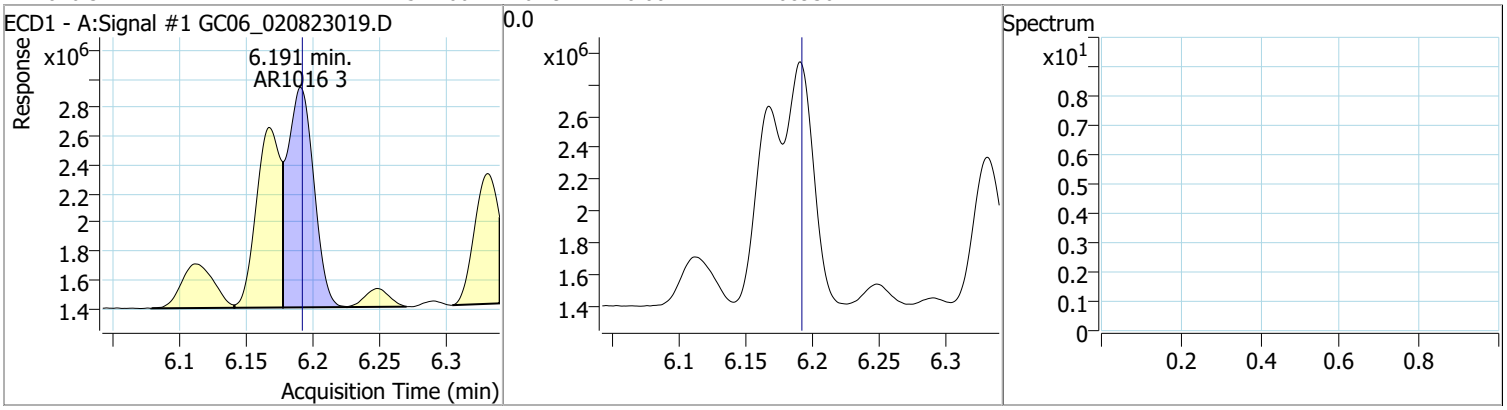
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	560.0830	5.72	0.00	1717231				



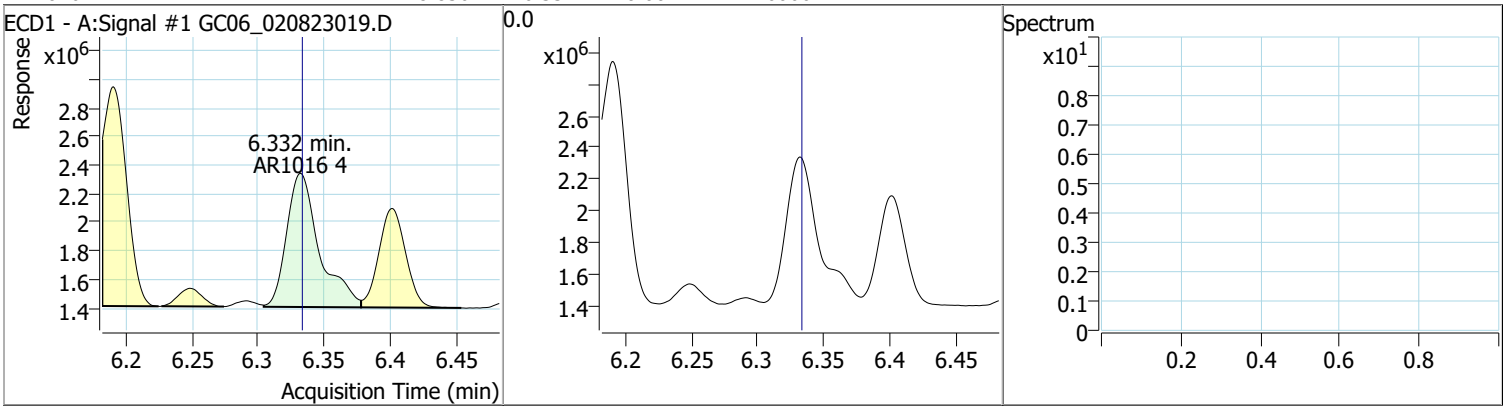
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	495.2302	5.91	0.00	3188658				



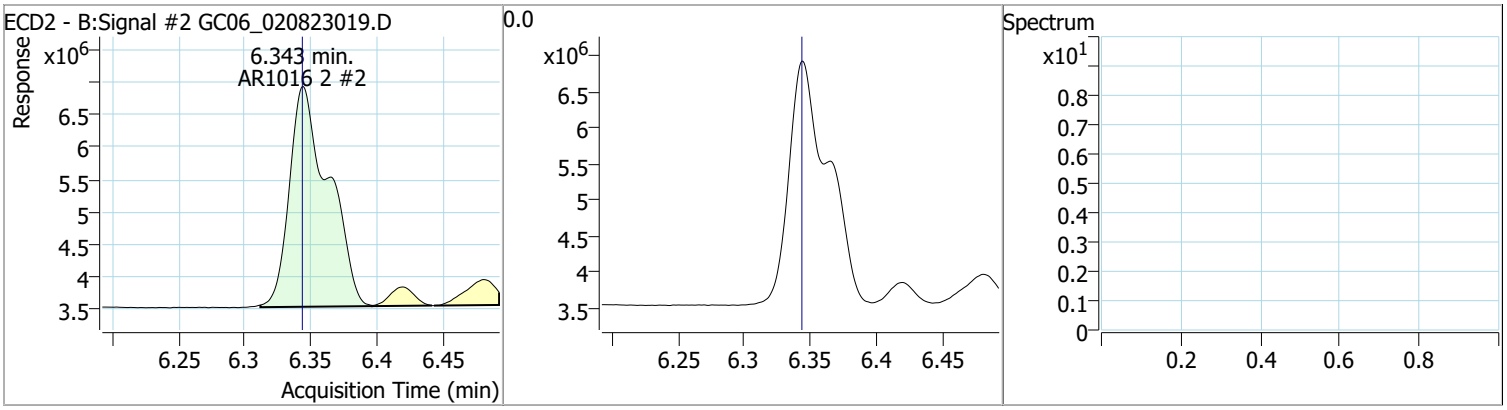
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	454.1662	6.19	0.00	2108930				



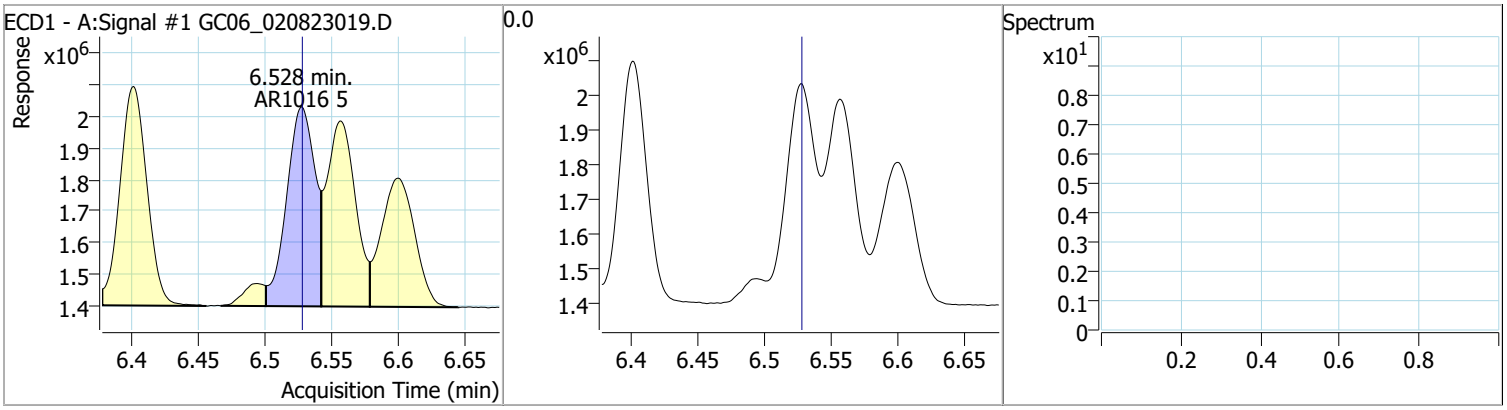
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	448.8362	6.33	0.00	1606642				



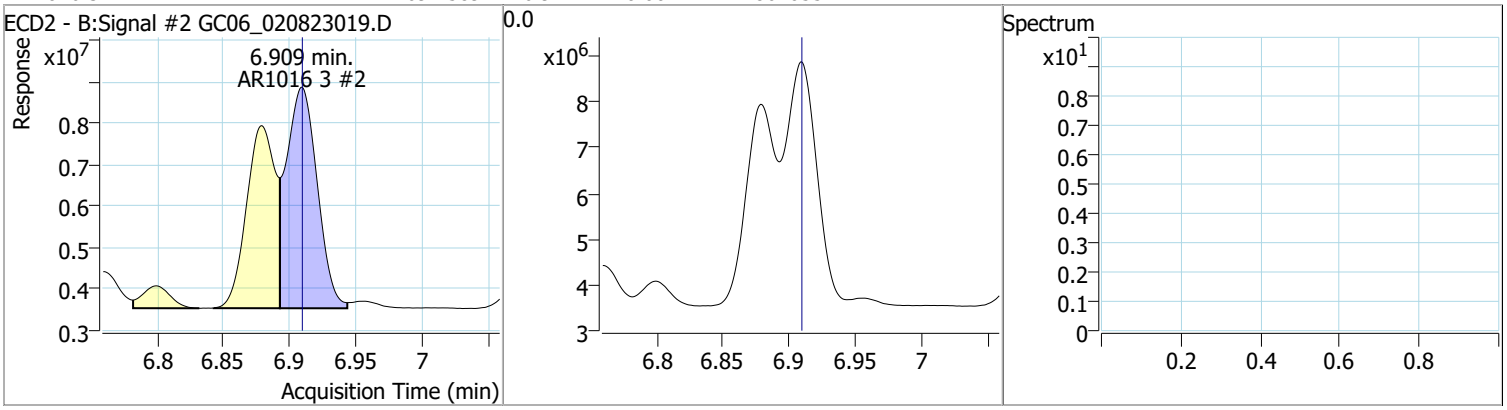
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	462.4939	6.34	0.00	6959933				



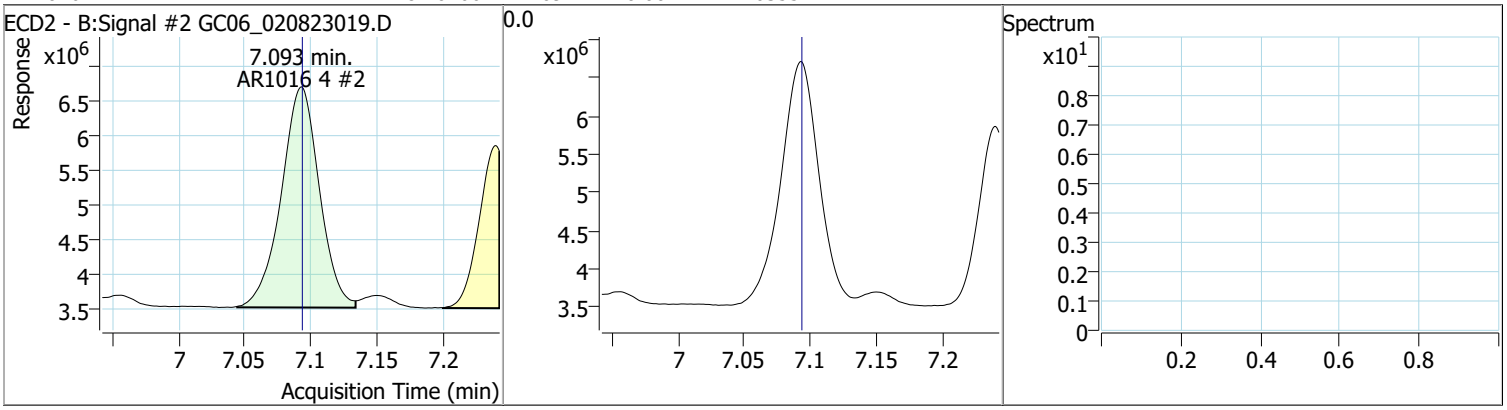
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	540.5084	6.53	0.00	943286				



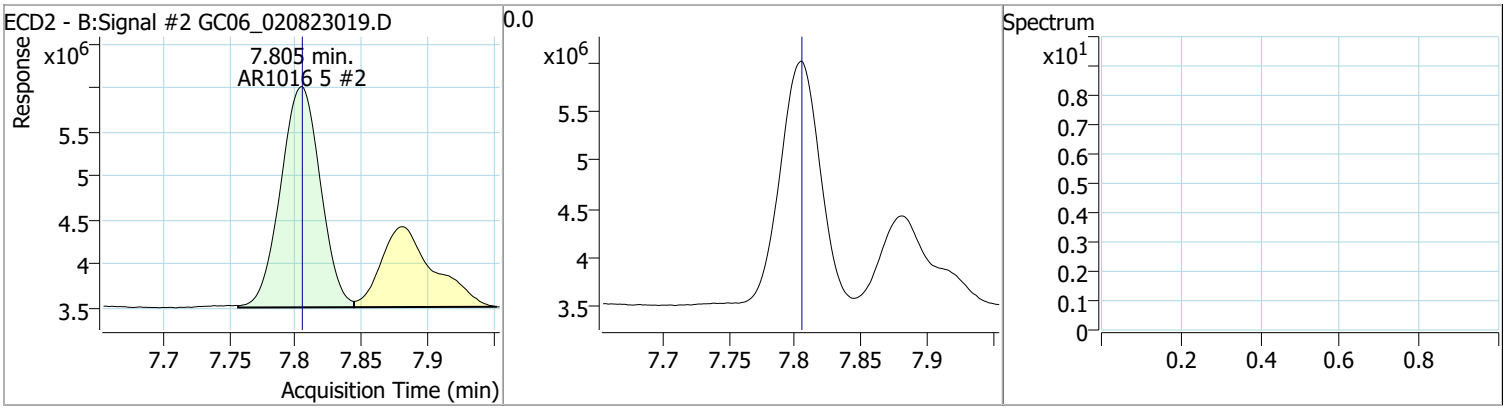
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	469.2589	6.91	0.00	8640557				



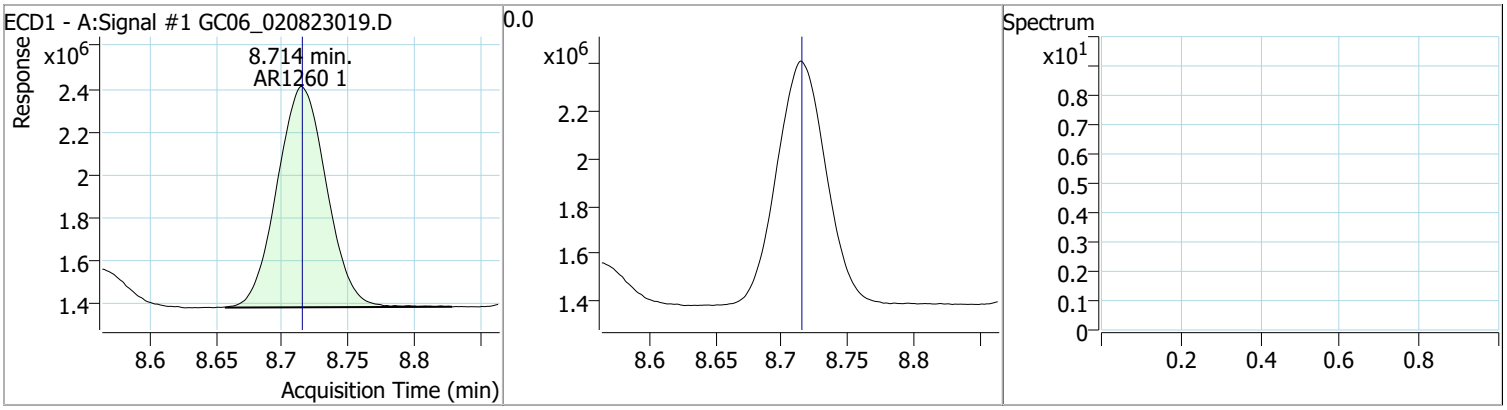
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	484.0266	7.09	0.00	6355227				



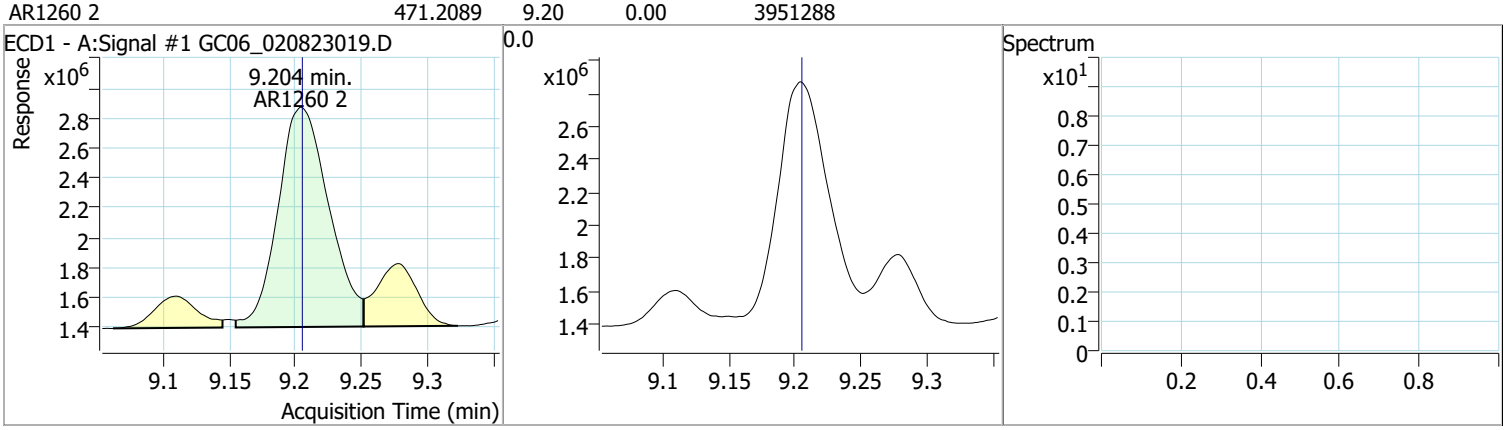
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	493.7205	7.81	0.00	5252877				



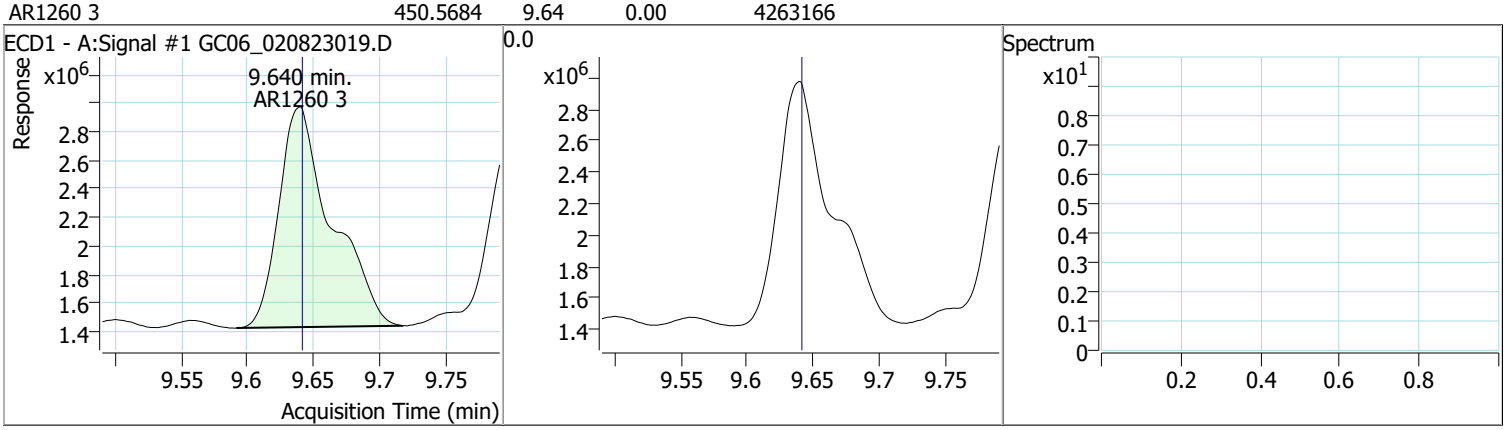
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	444.0199	8.71	0.00	2670075				



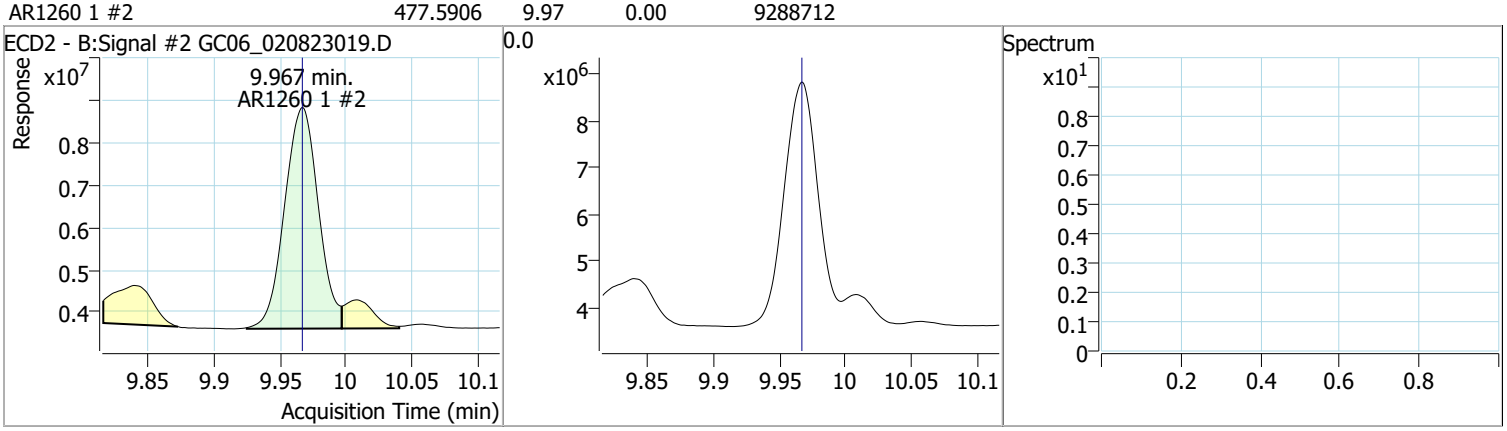
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	471.2089	9.20	0.00	3951288				



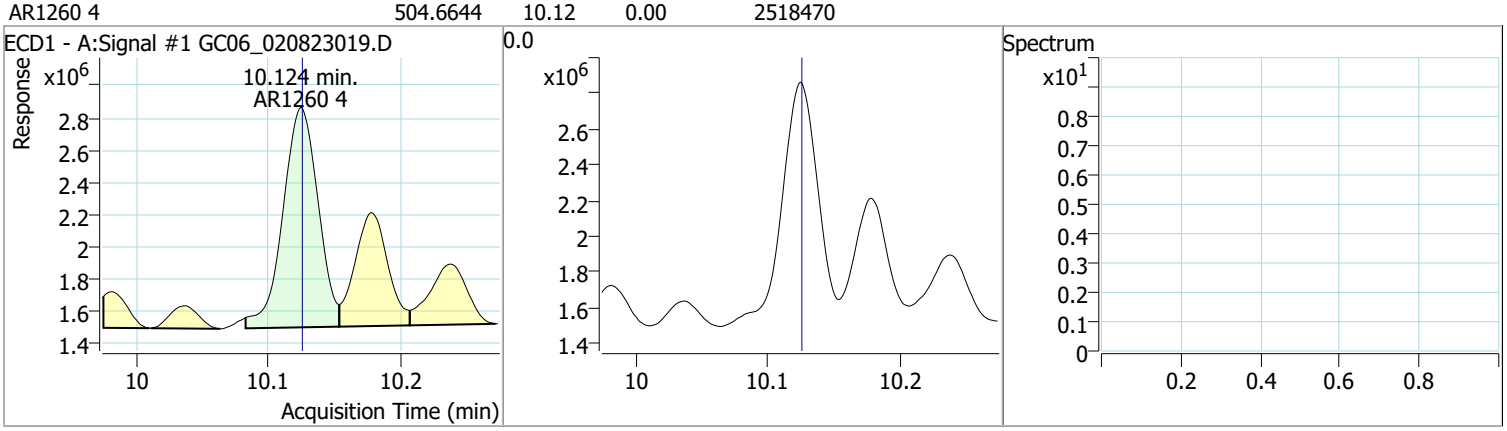
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	450.5684	9.64	0.00	4263166				



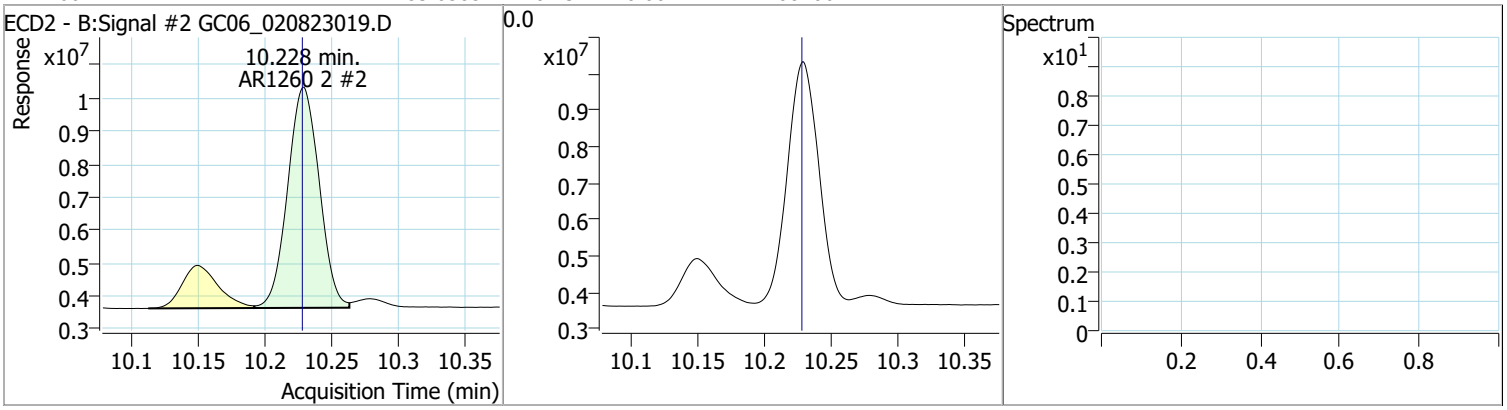
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	477.5906	9.97	0.00	9288712				



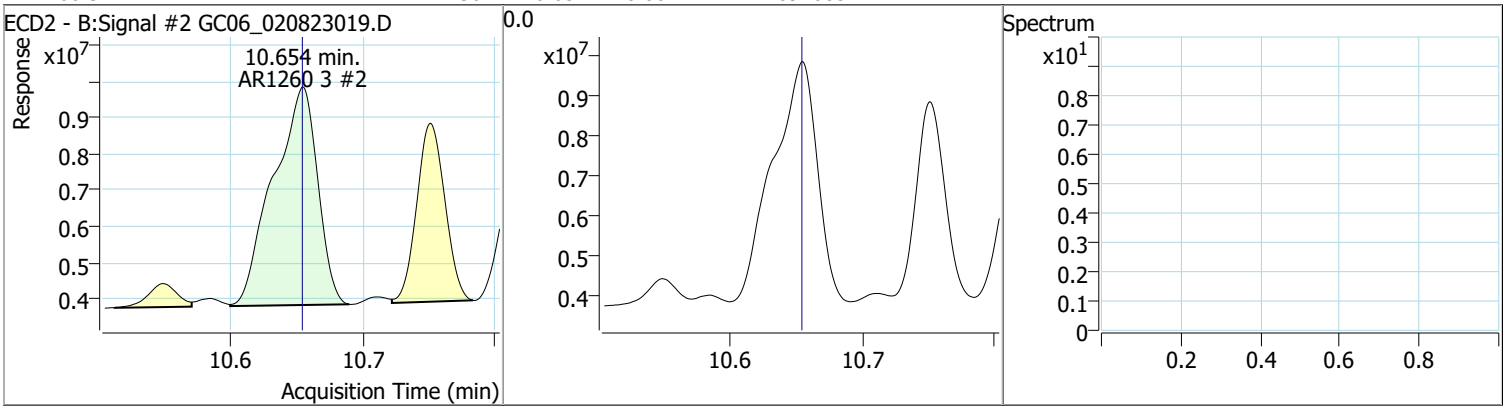
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	504.6644	10.12	0.00	2518470				



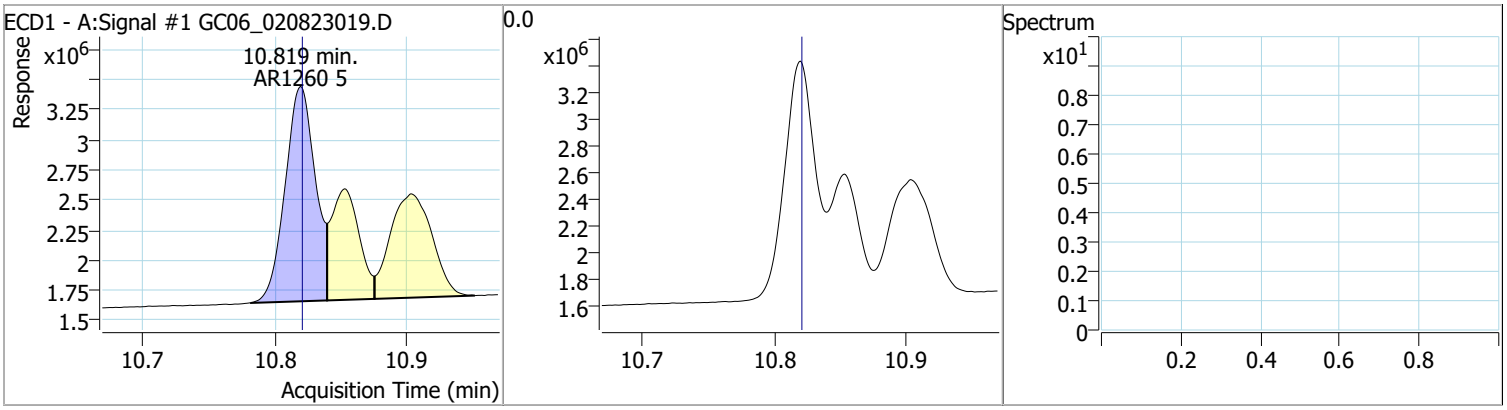
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	483.0585	10.23	0.00	11087064				



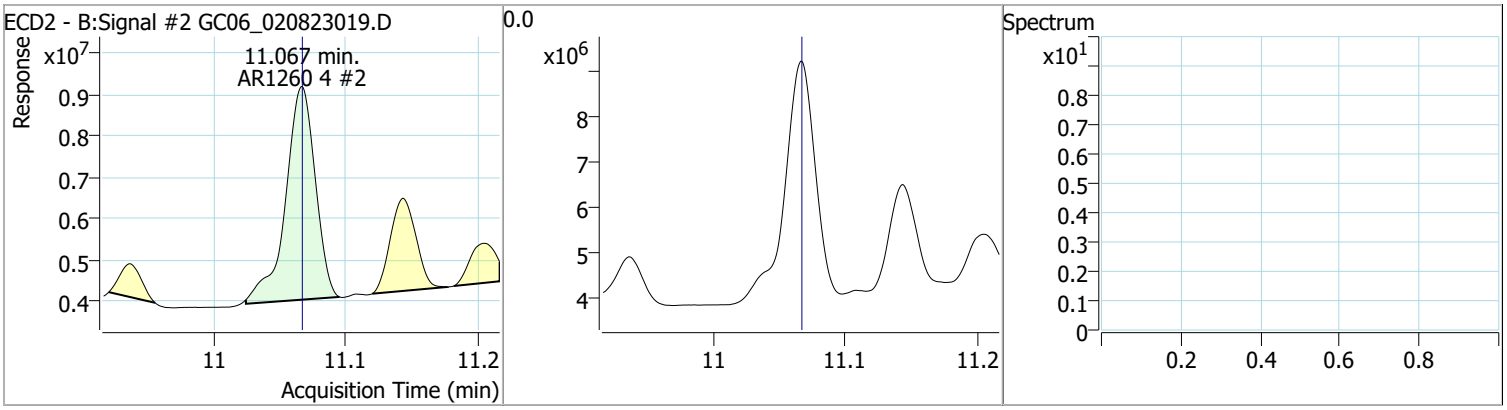
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	471.1236	10.65	0.00	14097085				



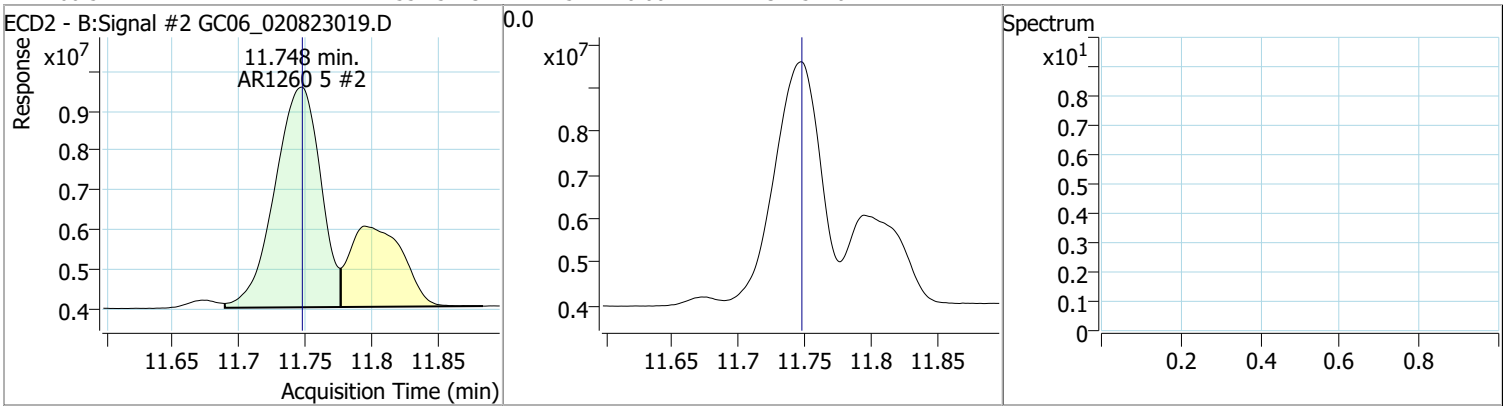
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	498.3849	10.82	0.00	2831557				



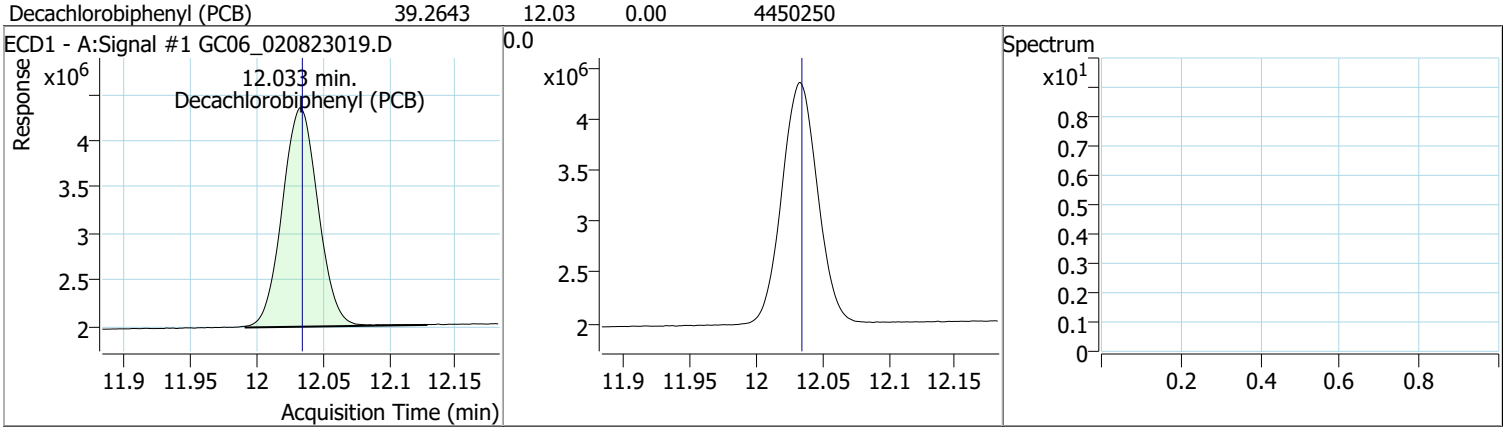
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	514.8795	11.07	0.00	8082990				



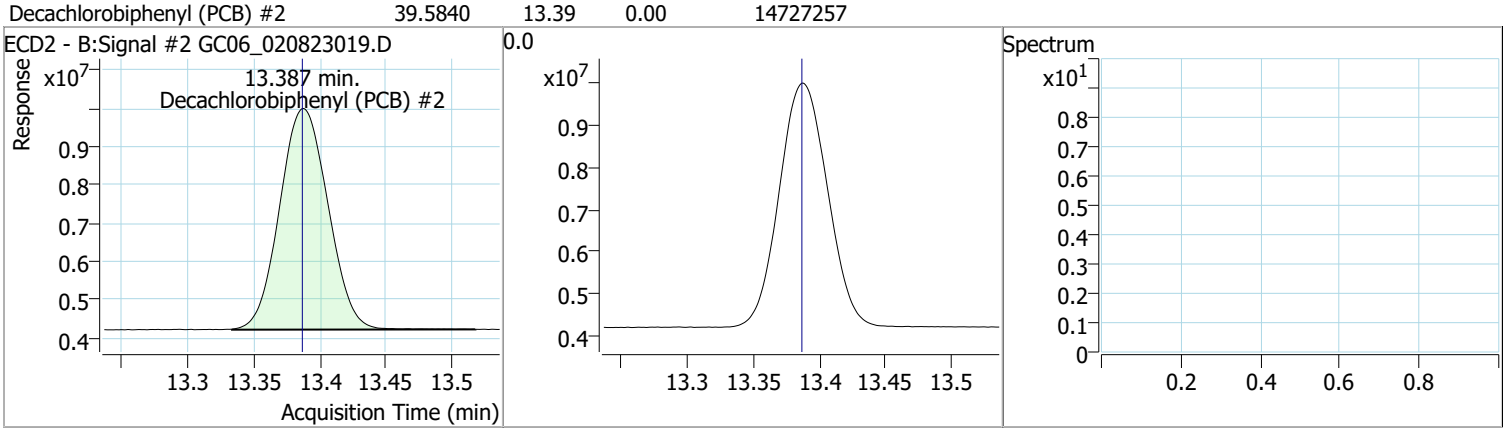
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	554.5273	11.75	0.00	13445740				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	39.2643	12.03	0.00	4450250				

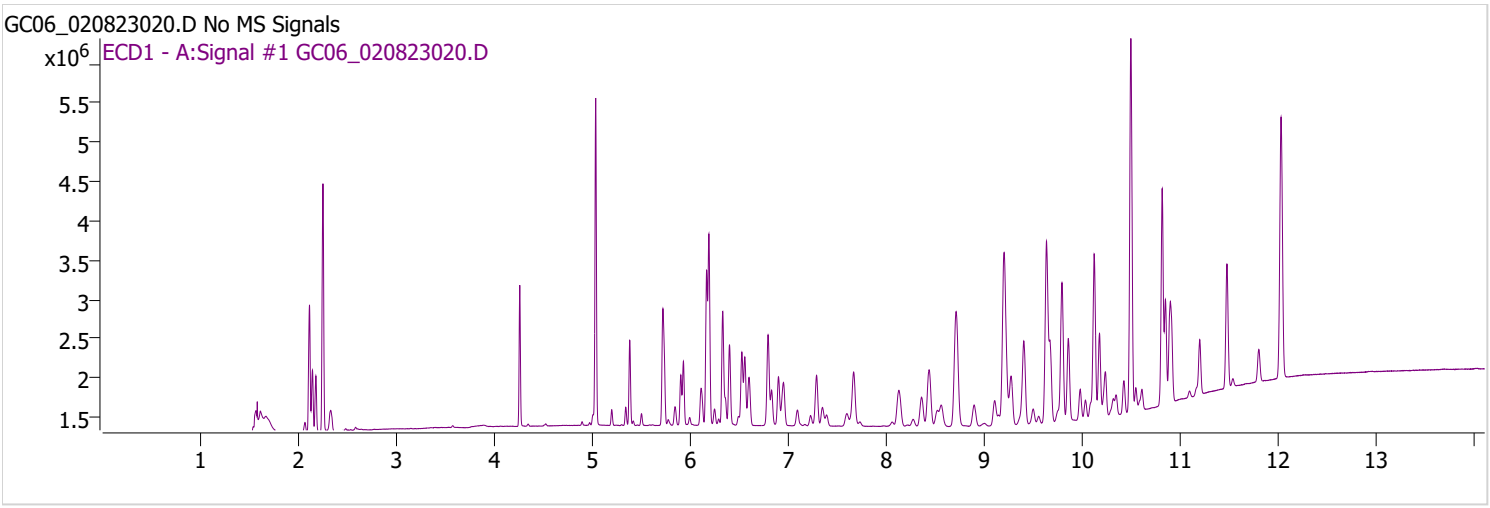


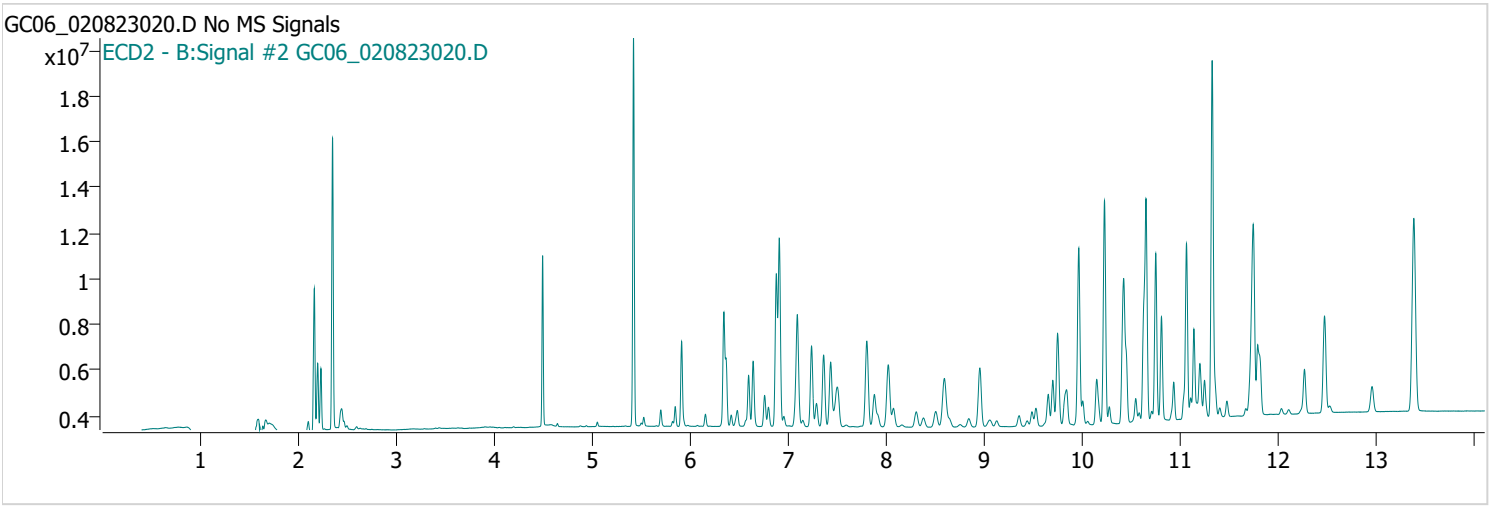
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	39.5840	13.39	0.00	14727257				



Quantitation Results Report (Not Reviewed)

Data File	GC06_020823020.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/8/2023 8:13:00 PM
Sample Name	ICAL, S17802	Instrument	SVOA-GC06
Vial	16	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	020823PCBICAL.batch.bin	Last Calib Update	2/9/2023 1:50:24 PM
Ref Library			



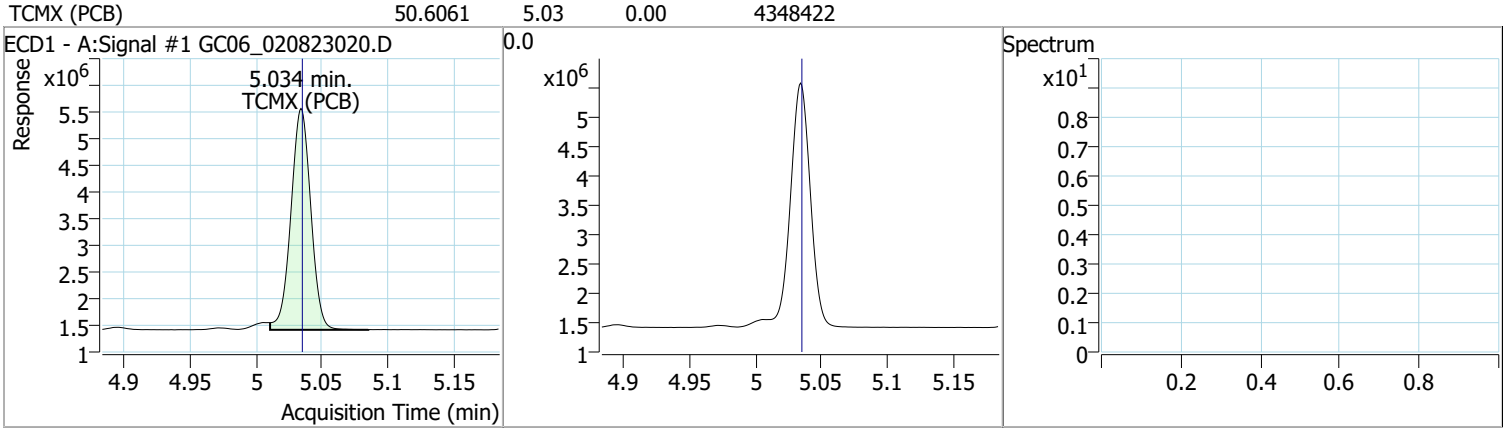


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.259	0.0	1633647.720	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.493	0.0	6815651.494	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.034	0.0	4348422.225	50.6061	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 253.03%		*	
S TCMX (PCB) #2	5.421	0.0	17984861.542	51.9646	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 259.82%		*	
S Decachlorobiphenyl (PCB)	12.032	0.0	6395579.757	51.3127	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 256.56%		*	
S Decachlorobiphenyl (PCB) #2	13.388	0.0	21007595.883	51.0556	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 255.28%		*	
Target Compounds							QValue

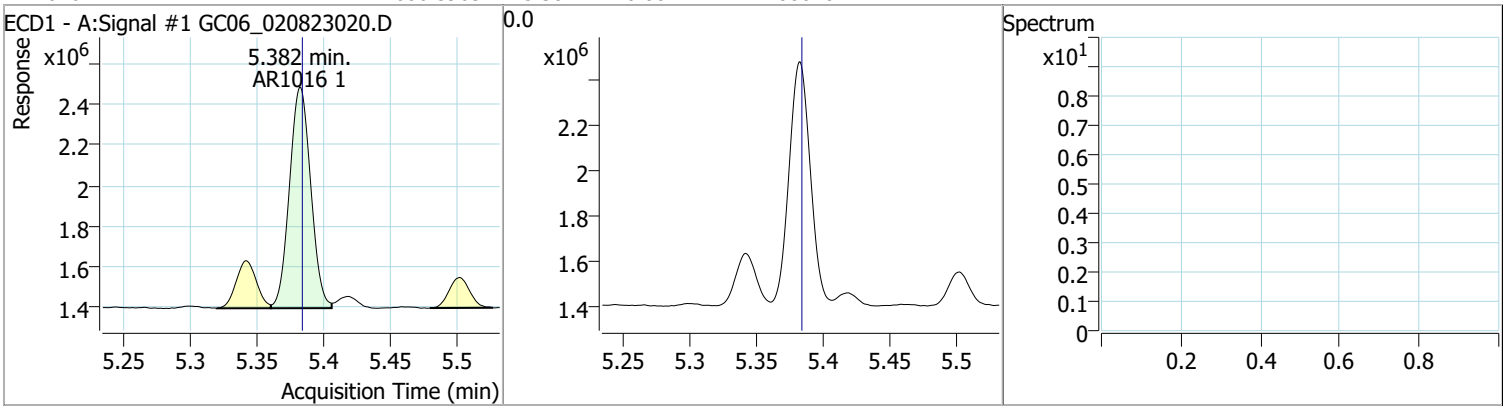
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.382	0.0	1208048.130	686.5963	ng/ml		100
T AR1016 2	5.721	0.0	2563459.906	777.7933	ng/ml		100
T AR1016 1 #2	5.912	0.0	4823989.305	677.4453	ng/ml		100
T AR1016 3	6.190	0.0	3204484.594	627.5409	ng/ml		100
T AR1016 4	6.332	0.0	2404581.118	610.8569	ng/ml		100
T AR1016 2 #2	6.343	0.0	10565062.158	634.8069	ng/ml		100
T AR1016 5	6.527	0.0	1403044.020	731.0746	ng/ml	m	100
T AR1016 3 #2	6.908	0.0	13122022.301	644.3774	ng/ml		100
T AR1016 4 #2	7.093	0.0	9651975.320	664.6960	ng/ml		100
T AR1016 5 #2	7.803	0.0	7923193.294	673.3685	ng/ml		100
T AR1260 1	8.714	0.0	3975075.030	601.1123	ng/ml		100
T AR1260 2	9.204	0.0	5848373.654	634.2219	ng/ml		100
T AR1260 3	9.637	0.0	6465820.913	621.4175	ng/ml		100
T AR1260 1 #2	9.967	0.0	13704730.022	637.1467	ng/ml		100
T AR1260 4	10.123	0.0	3767571.623	686.5288	ng/ml		100
T AR1260 2 #2	10.229	0.0	16418209.738	646.8114	ng/ml		100
T AR1260 3 #2	10.653	0.0	21587956.609	652.3577	ng/ml		100
T AR1260 5	10.818	0.0	4219256.338	675.3156	ng/ml		100
T AR1260 4 #2	11.066	0.0	11992680.051	690.7462	ng/ml		100
T AR1260 5 #2	11.748	0.0	20566243.299	782.0688	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

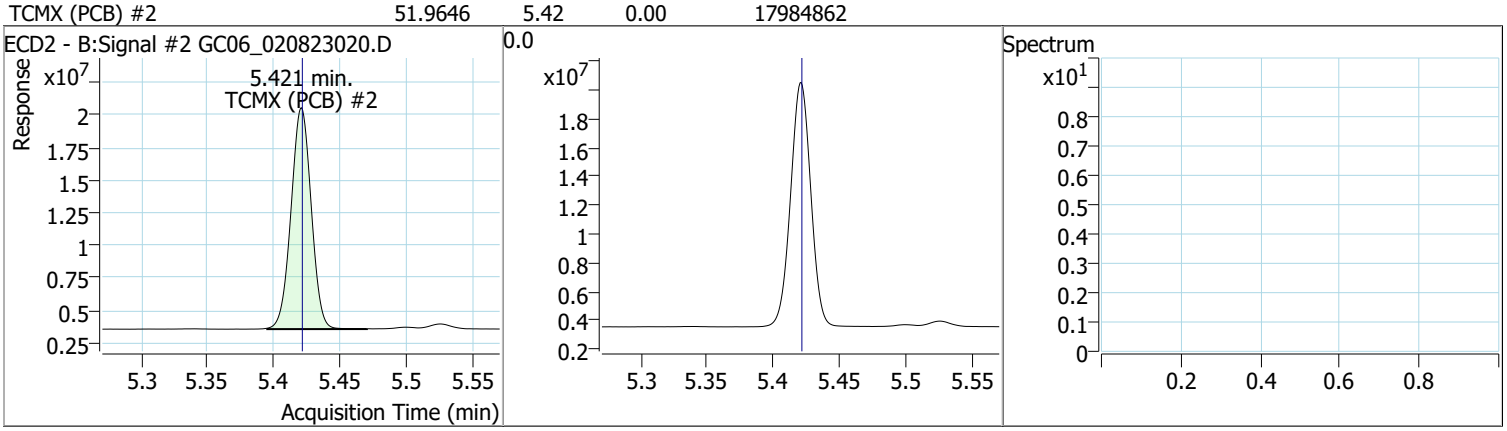
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	50.6061	5.03	0.00	4348422				



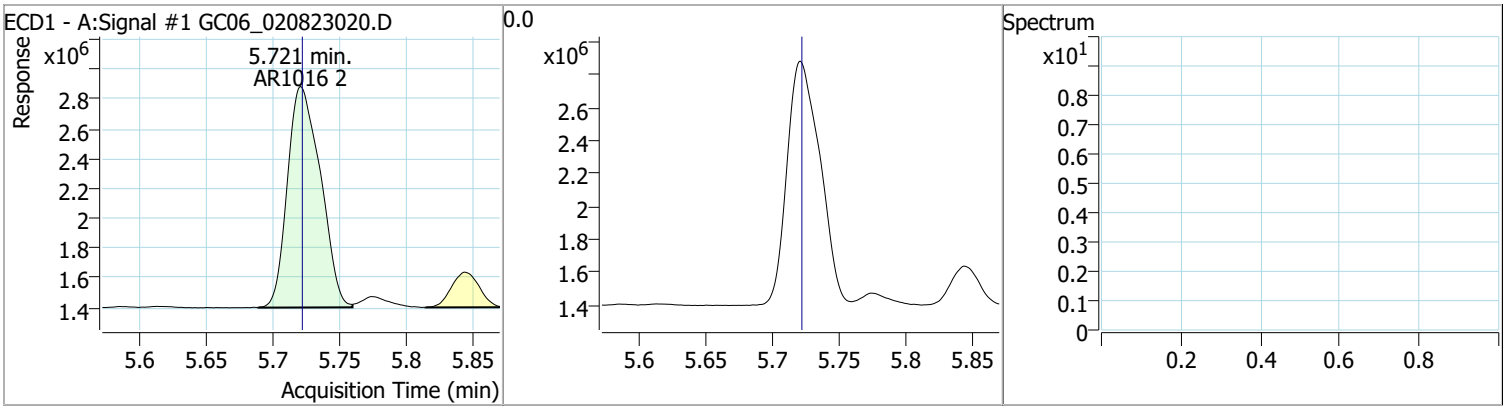
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	686.5963	5.38	0.00	1208048				



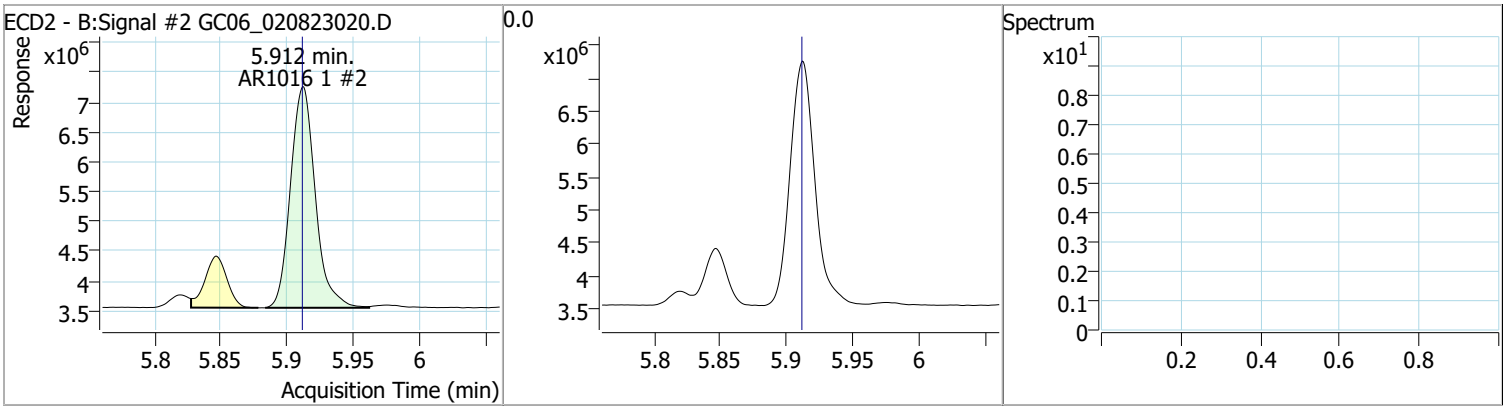
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	51.9646	5.42	0.00	17984862				



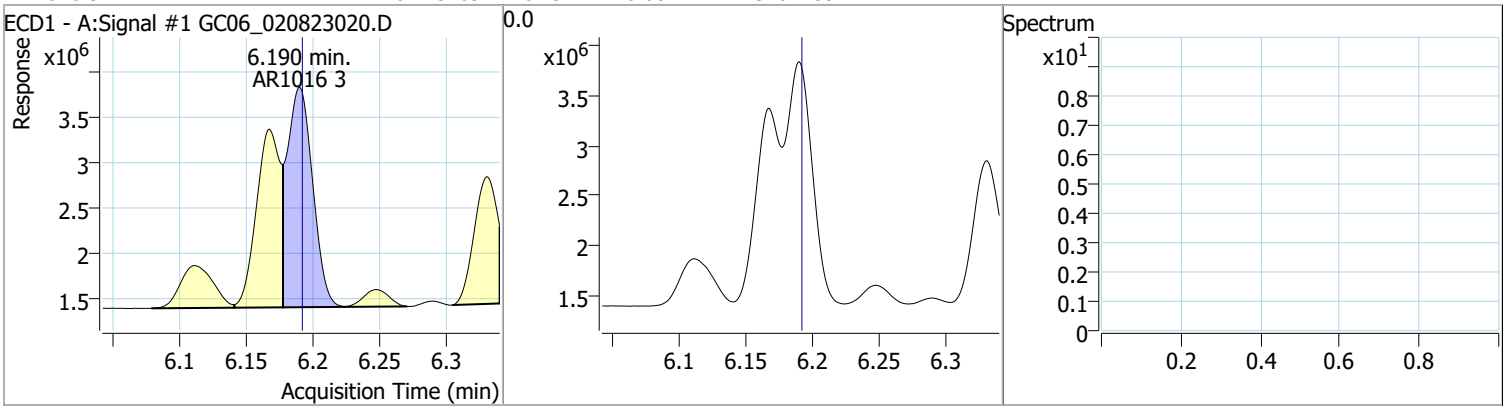
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	777.7933	5.72	0.00	2563460				



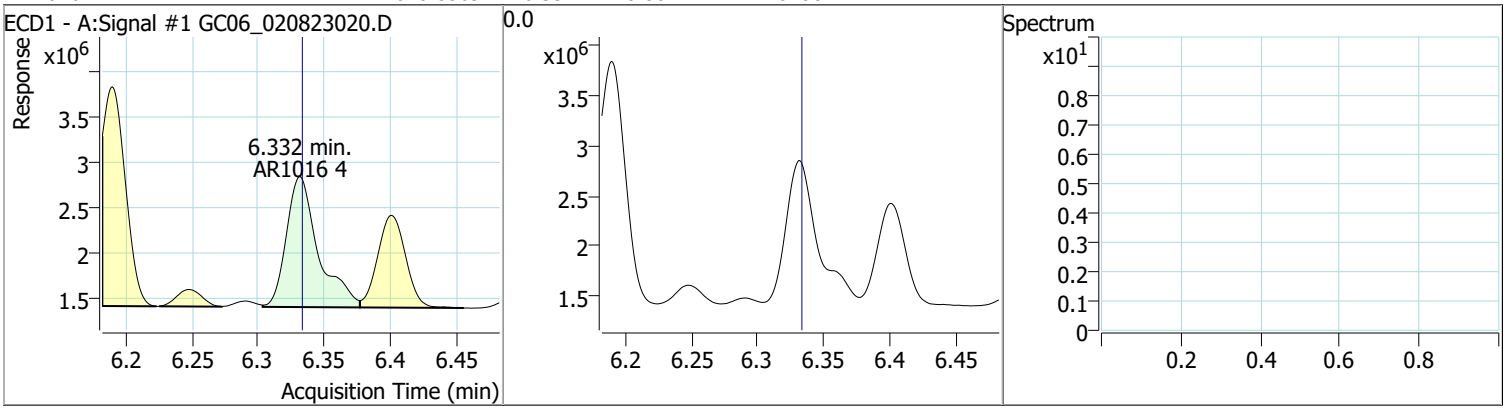
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AR1016 1 #2	677.4453	5.91	0.00	4823989				



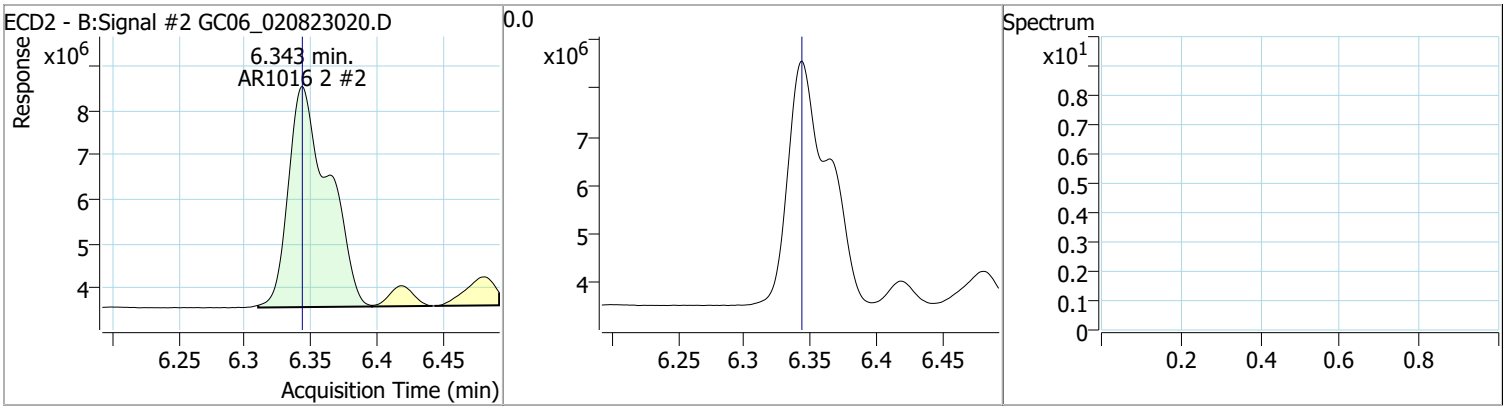
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AR1016 3	627.5409	6.19	0.00	3204485				



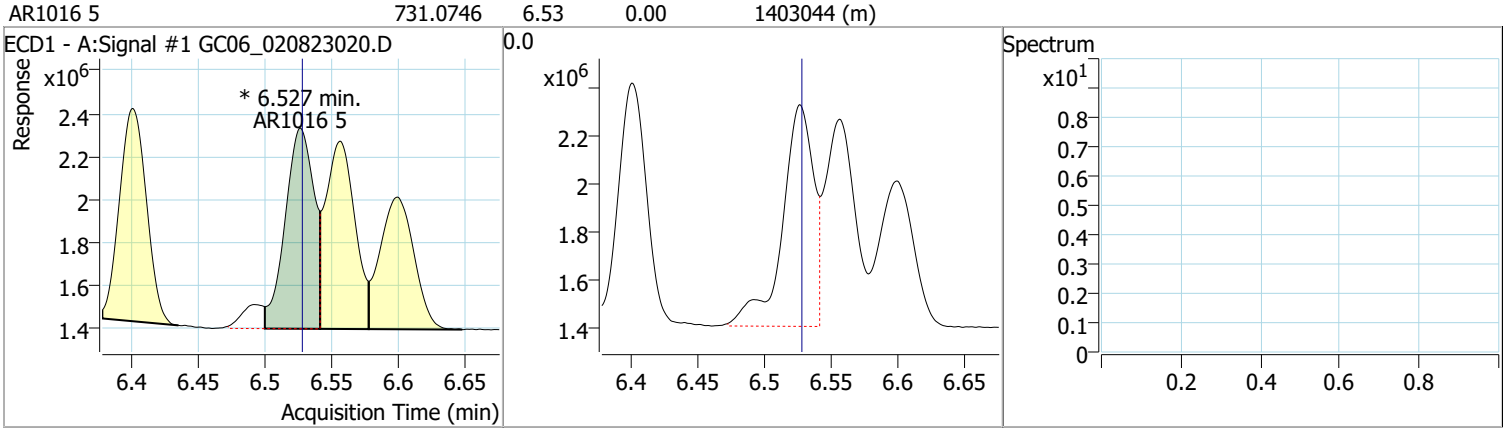
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	610.8569	6.33	0.00	2404581				



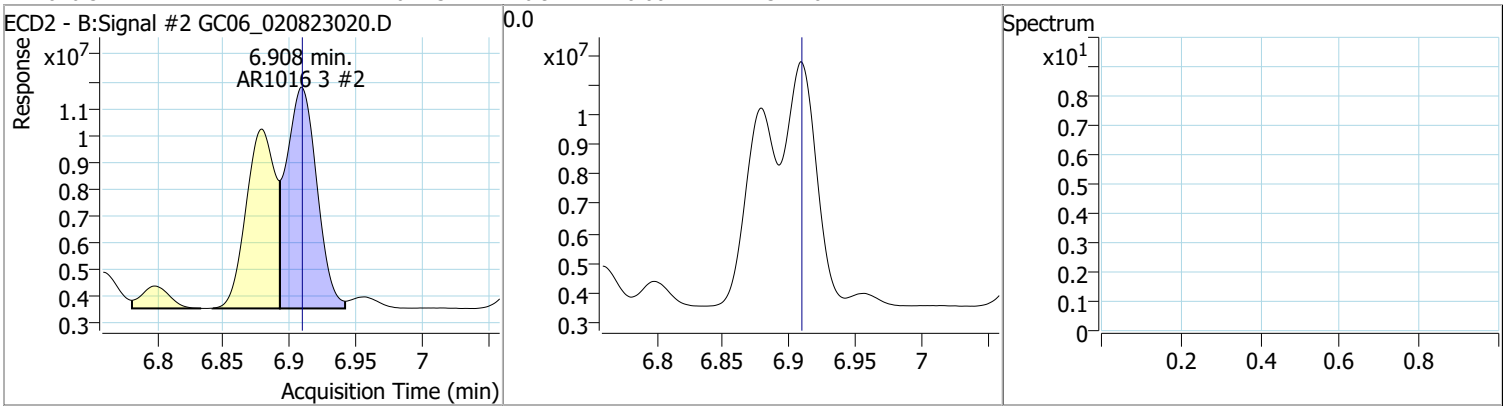
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	634.8069	6.34	0.00	10565062				



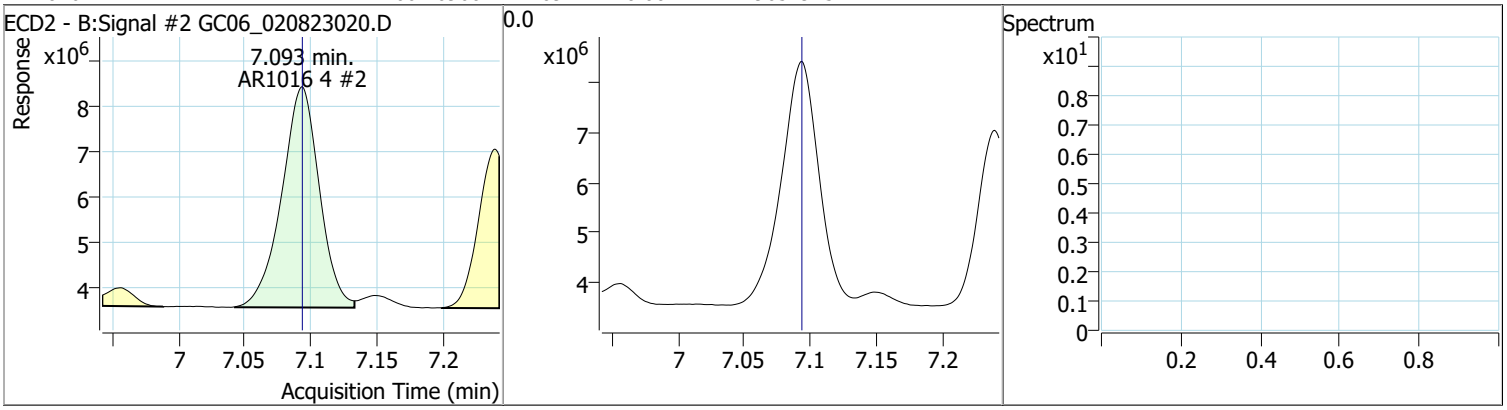
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	731.0746	6.53	0.00	1403044 (m)				



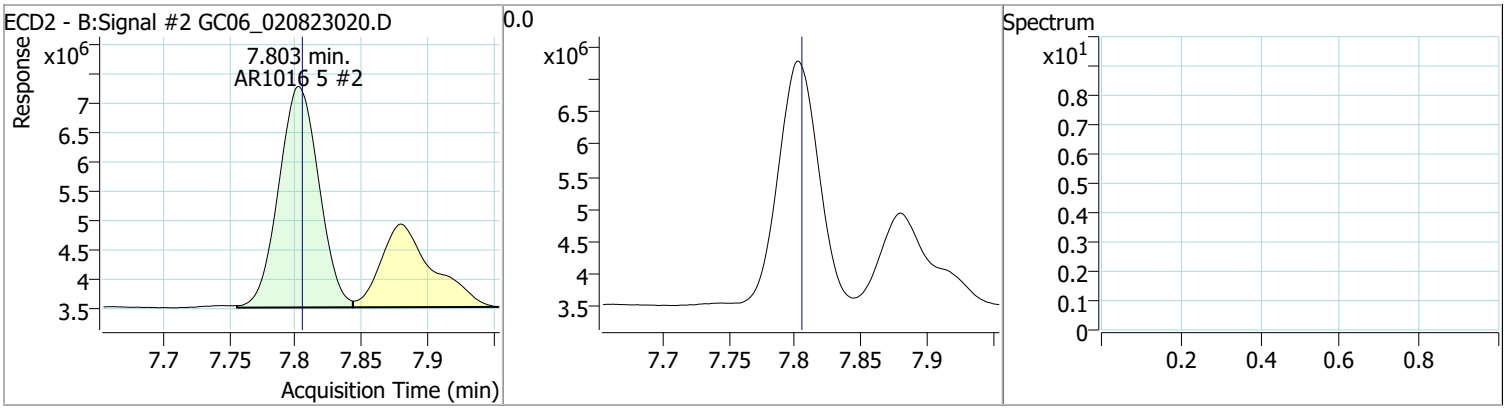
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	644.3774	6.91	0.00	13122022				



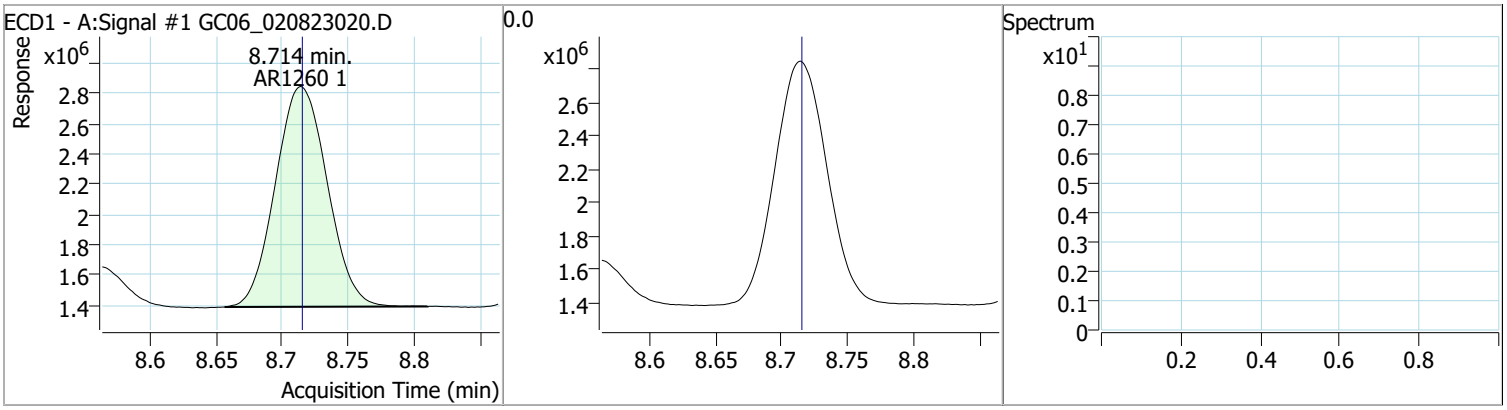
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	664.6960	7.09	0.00	9651975				



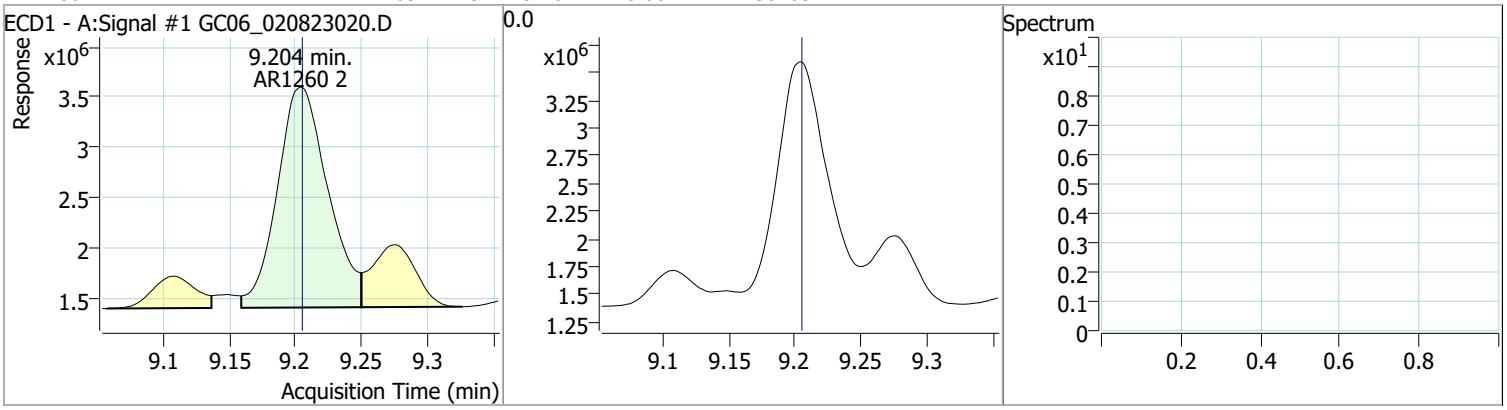
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	673.3685	7.80	0.00	7923193				



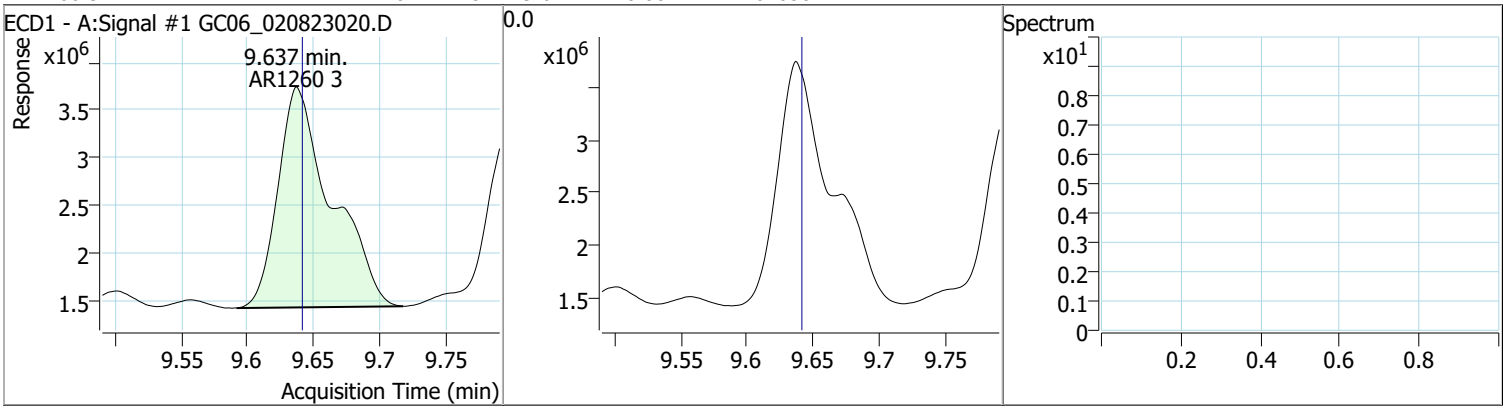
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	601.1123	8.71	0.00	3975075				



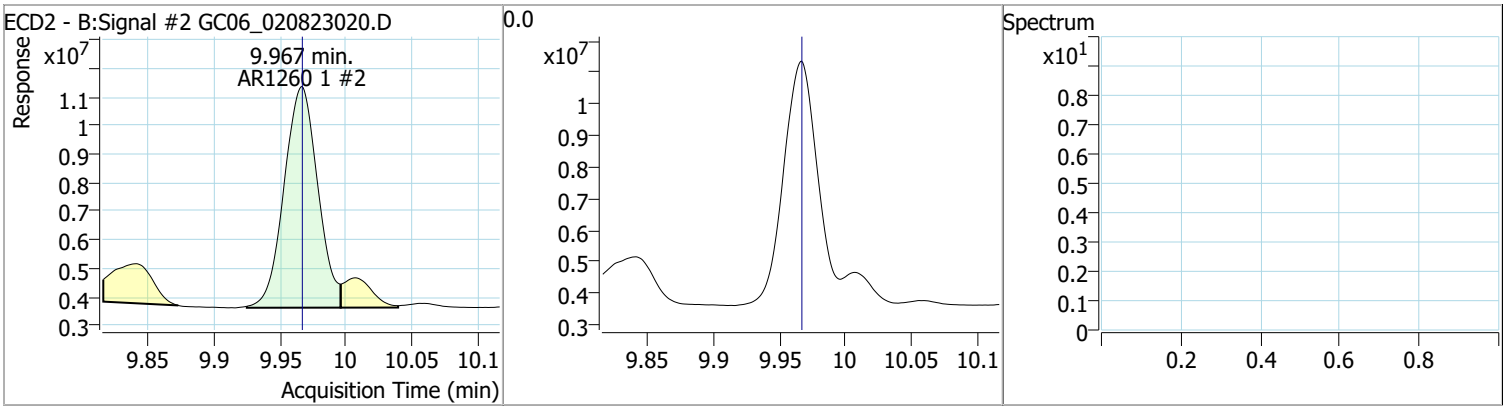
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AR1260 2	634.2219	9.20	0.00	5848374				



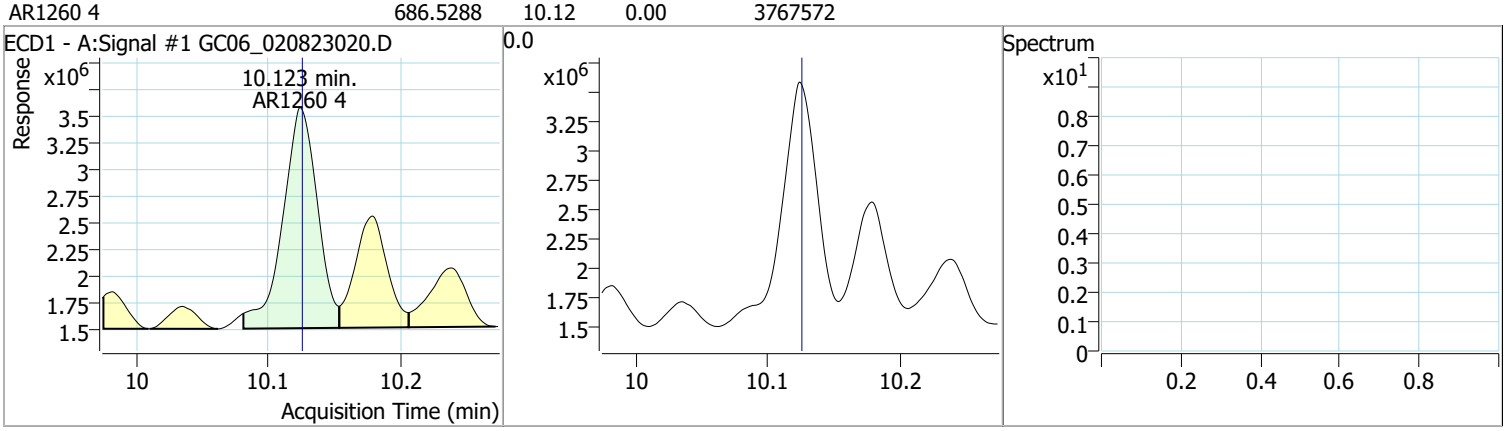
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	621.4175	9.64	0.00	6465821				



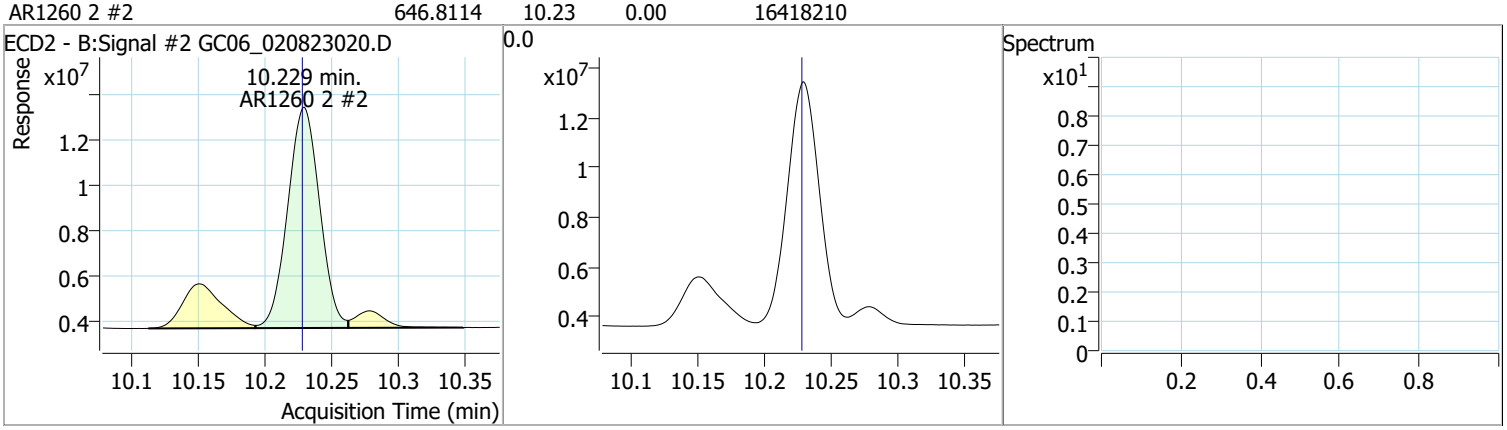
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	637.1467	9.97	0.00	13704730				



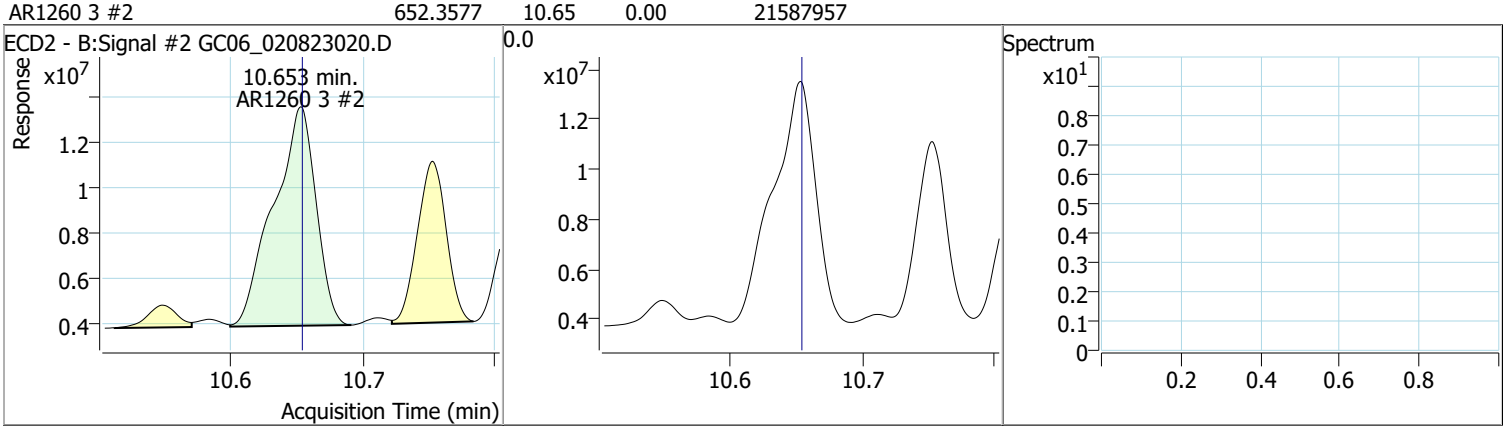
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	686.5288	10.12	0.00	3767572				



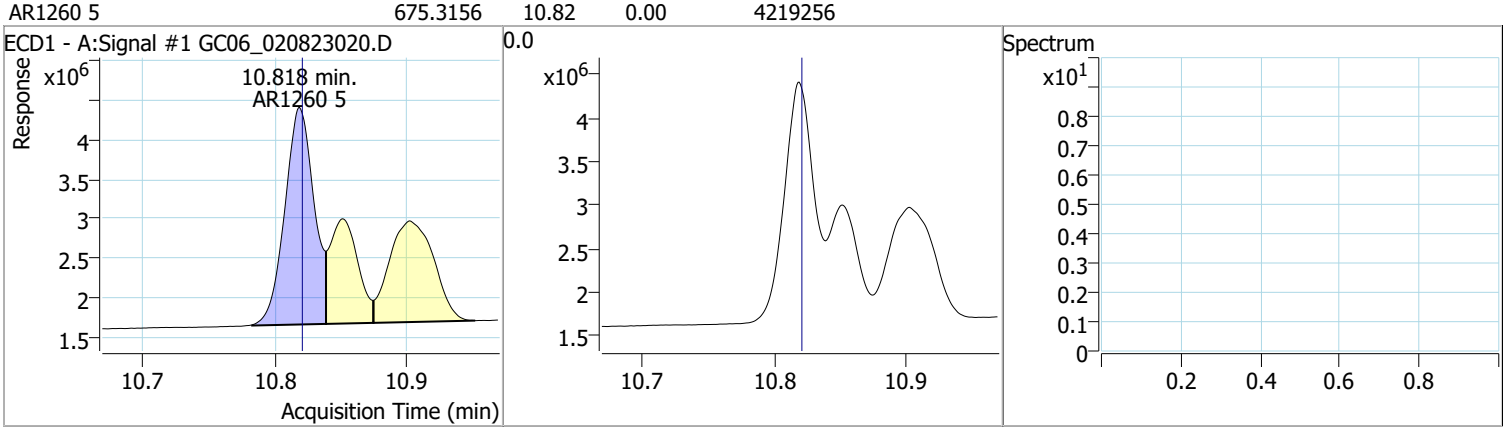
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	646.8114	10.23	0.00	16418210				



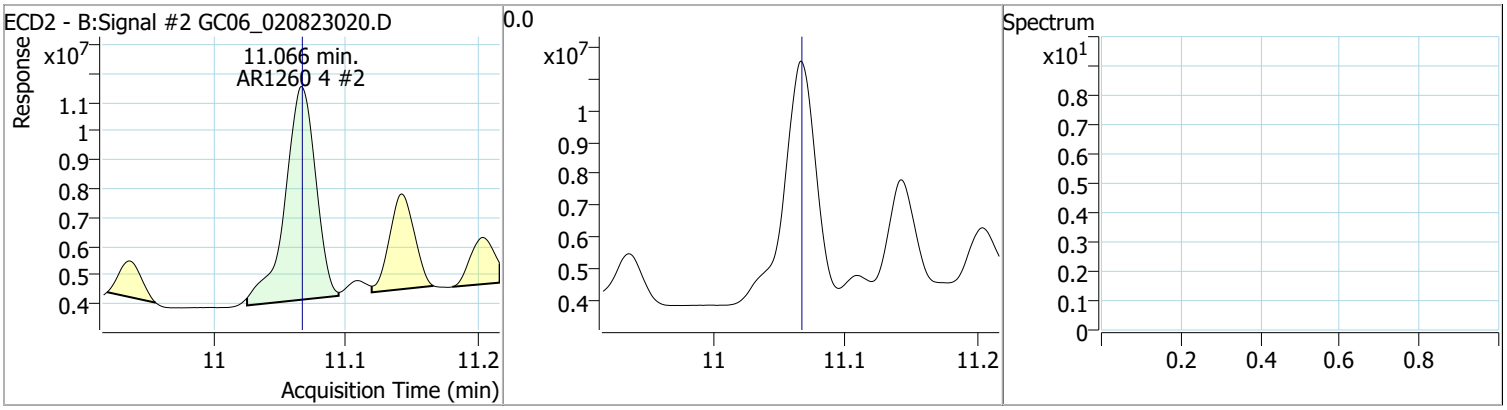
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	652.3577	10.65	0.00	21587957				



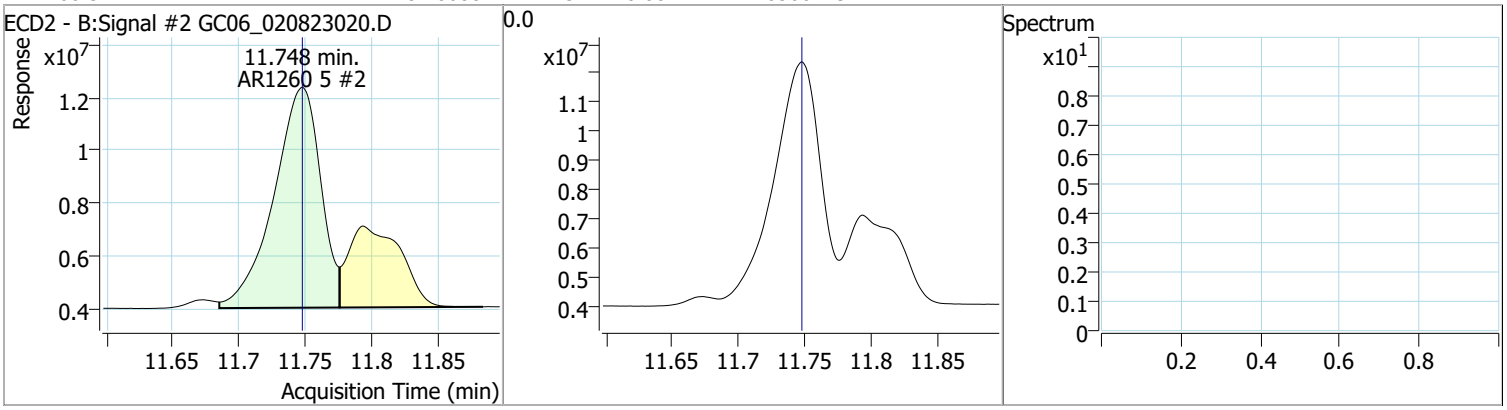
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	675.3156	10.82	0.00	4219256				



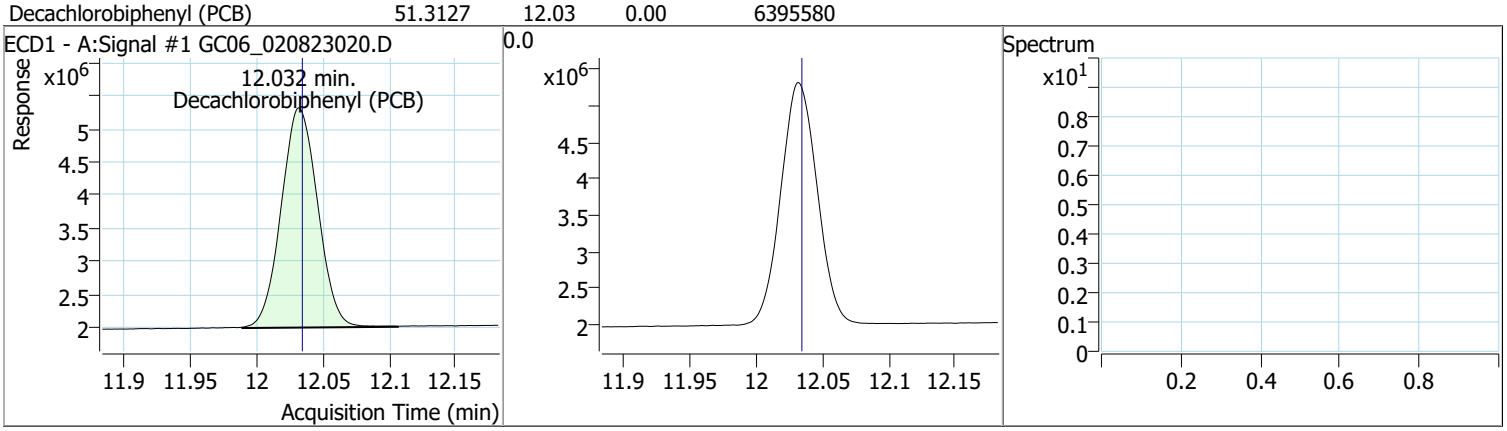
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	690.7462	11.07	0.00	11992680				



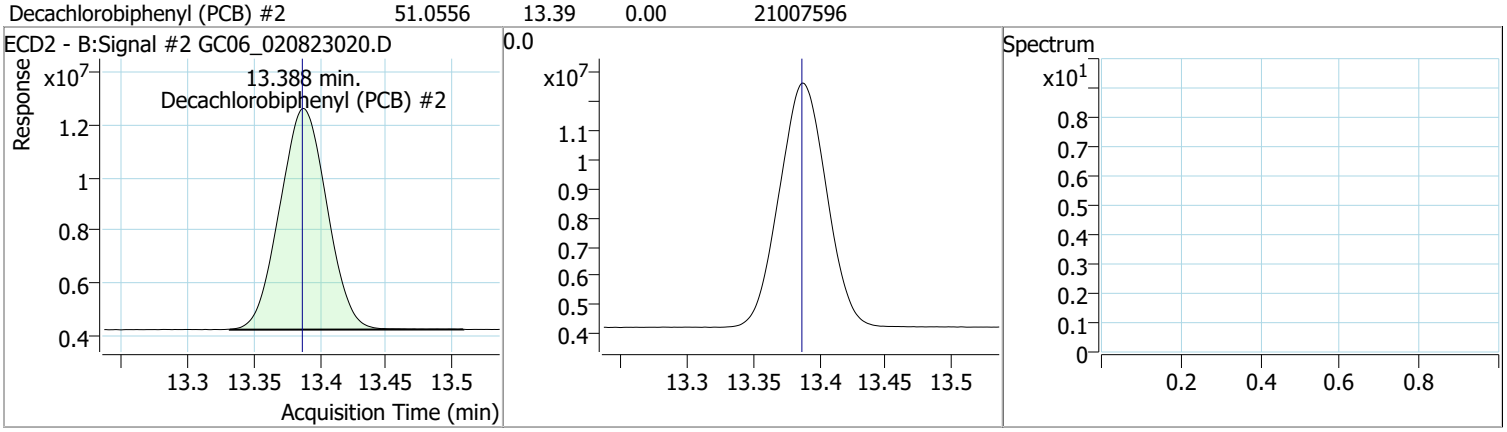
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	782.0688	11.75	0.00	20566243				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	51.3127	12.03	0.00	6395580				

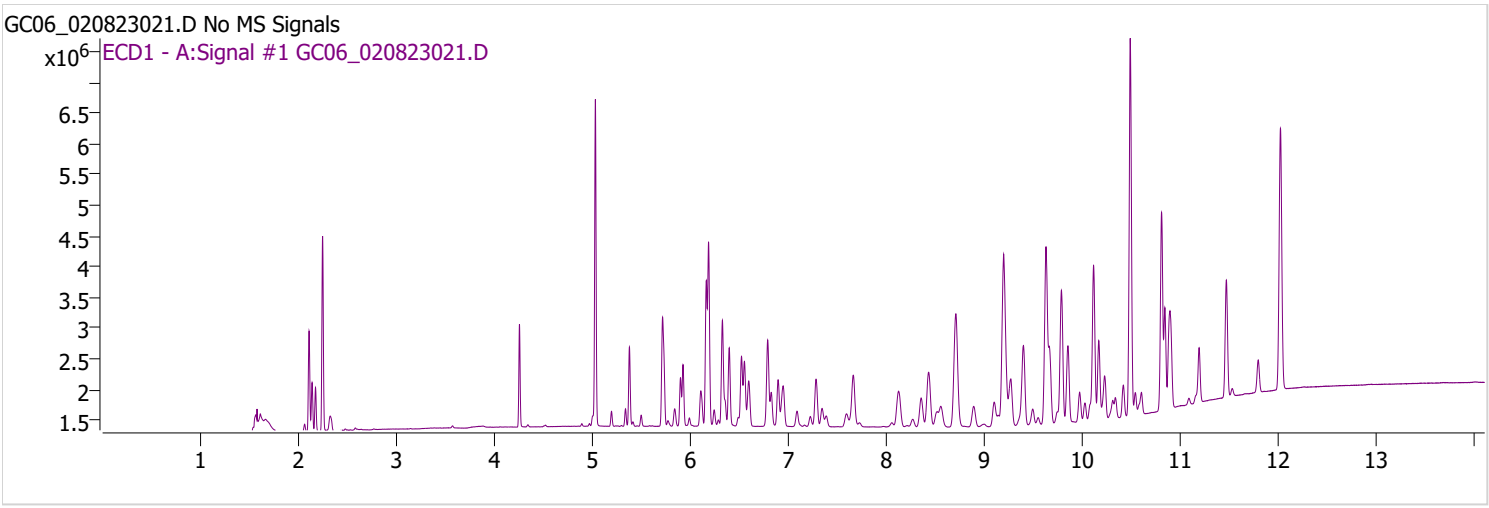


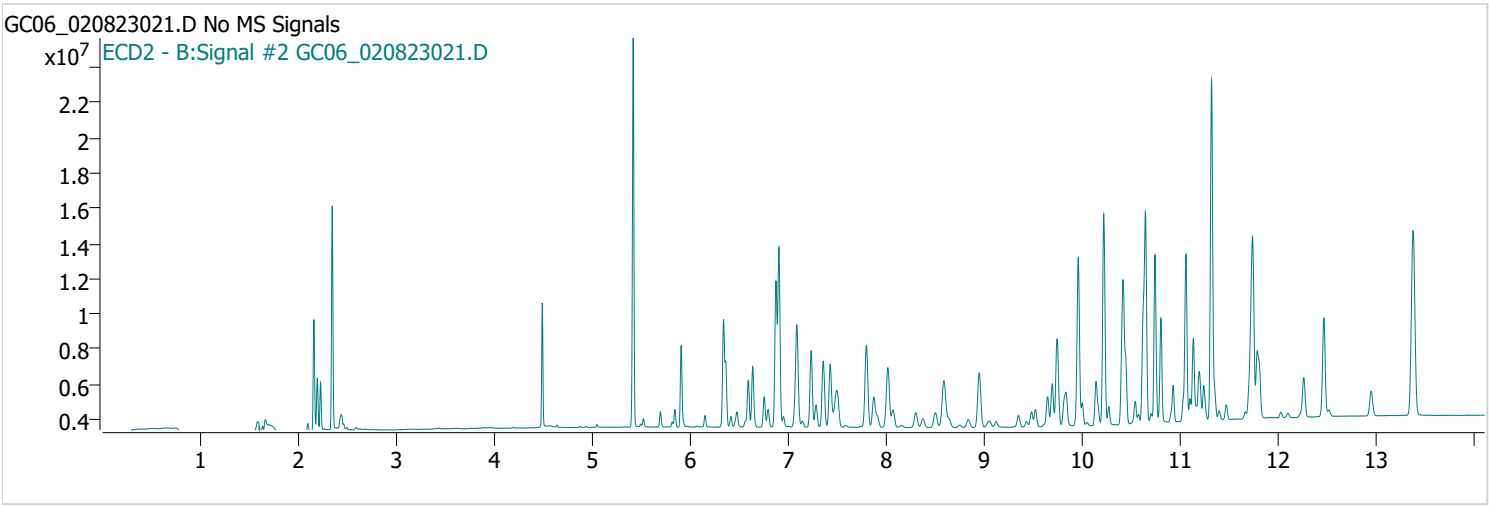
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	51.0556	13.39	0.00	21007596				



Quantitation Results Report (Not Reviewed)

Data File	GC06_020823021.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/8/2023 8:31:23 PM
Sample Name	ICAL, S17803	Instrument	SVOA-GC06
Vial	17	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	020823PCBICAL.batch.bin	Last Calib Update	2/9/2023 1:50:24 PM
Ref Library			



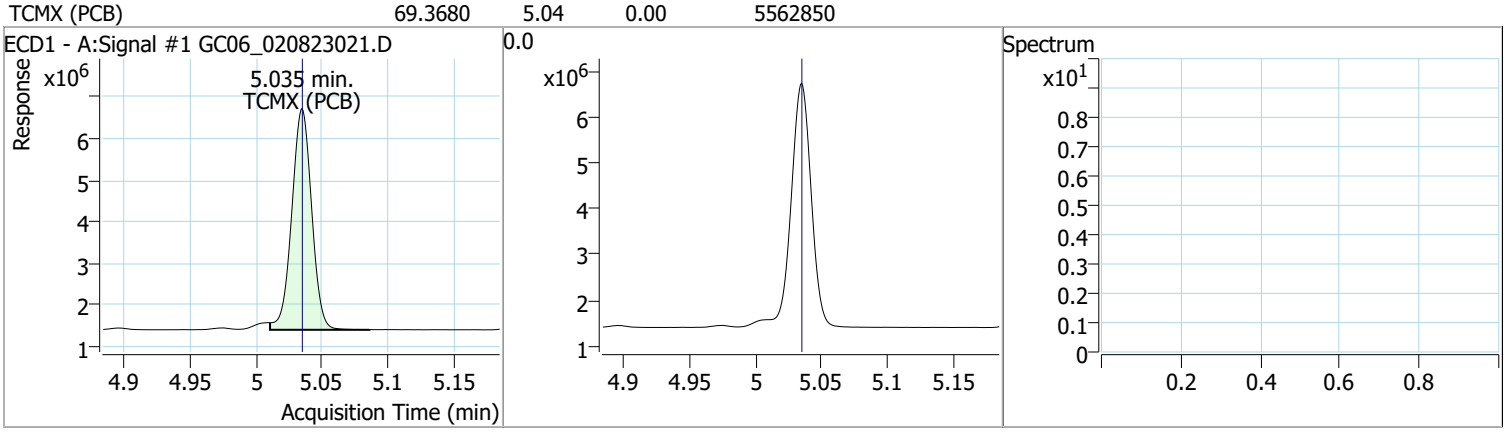


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.259	0.0	1524641.063	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.493	0.0	6382281.422	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.035	0.0	5562849.673	69.3680	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 346.84%		*	
S TCMX (PCB) #2	5.421	0.0	23154611.747	71.4446	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 357.22%		*	
S Decachlorobiphenyl (PCB)	12.033	0.0	8114571.130	69.7591	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 348.80%		*	
S Decachlorobiphenyl (PCB) #2	13.388	0.0	26740982.134	69.4026	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 347.01%		*	
Target Compounds							QValue

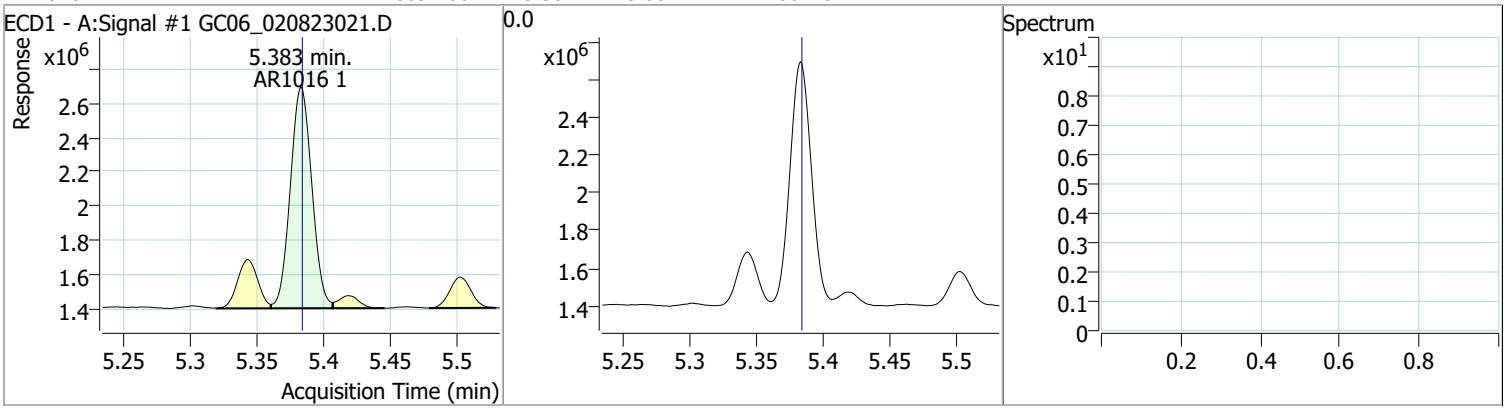
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.383	0.0	1460228.869	889.2604	ng/ml		100
T AR1016 2	5.722	0.0	3102534.327	1023.1912	ng/ml		100
T AR1016 1 #2	5.911	0.0	5856982.652	878.3614	ng/ml		100
T AR1016 3	6.191	0.0	3981862.154	835.5278	ng/ml		100
T AR1016 4	6.333	0.0	2929881.822	797.5188	ng/ml		100
T AR1016 2 #2	6.344	0.0	12844943.601	824.2012	ng/ml		100
T AR1016 5	6.528	0.0	1701683.589	950.0796	ng/ml	m	100
T AR1016 3 #2	6.910	0.0	16200035.193	849.5460	ng/ml		100
T AR1016 4 #2	7.093	0.0	11907101.903	875.6778	ng/ml		100
T AR1016 5 #2	7.803	0.0	9776748.453	887.3162	ng/ml		100
T AR1260 1	8.718	0.0	4979869.551	806.8987	ng/ml		100
T AR1260 2	9.206	0.0	7245119.777	841.8651	ng/ml		100
T AR1260 3	9.638	0.0	8059369.438	829.9496	ng/ml		100
T AR1260 1 #2	9.968	0.0	17035552.279	845.7785	ng/ml		100
T AR1260 4	10.124	0.0	4756158.706	928.6335	ng/ml		100
T AR1260 2 #2	10.228	0.0	20304485.469	854.2309	ng/ml		100
T AR1260 3 #2	10.653	0.0	27107993.513	874.7885	ng/ml		100
T AR1260 5	10.819	0.0	5230081.048	896.9538	ng/ml		100
T AR1260 4 #2	11.068	0.0	14725487.416	905.7396	ng/ml		100
T AR1260 5 #2	11.748	0.0	25947736.576	1067.4268	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

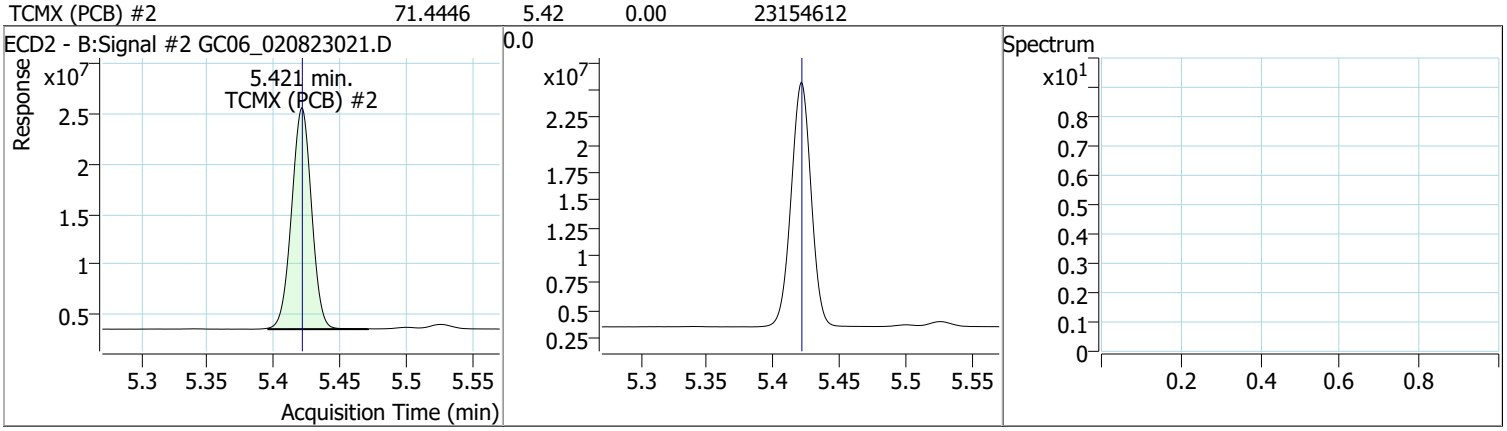
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	69.3680	5.04	0.00	5562850				



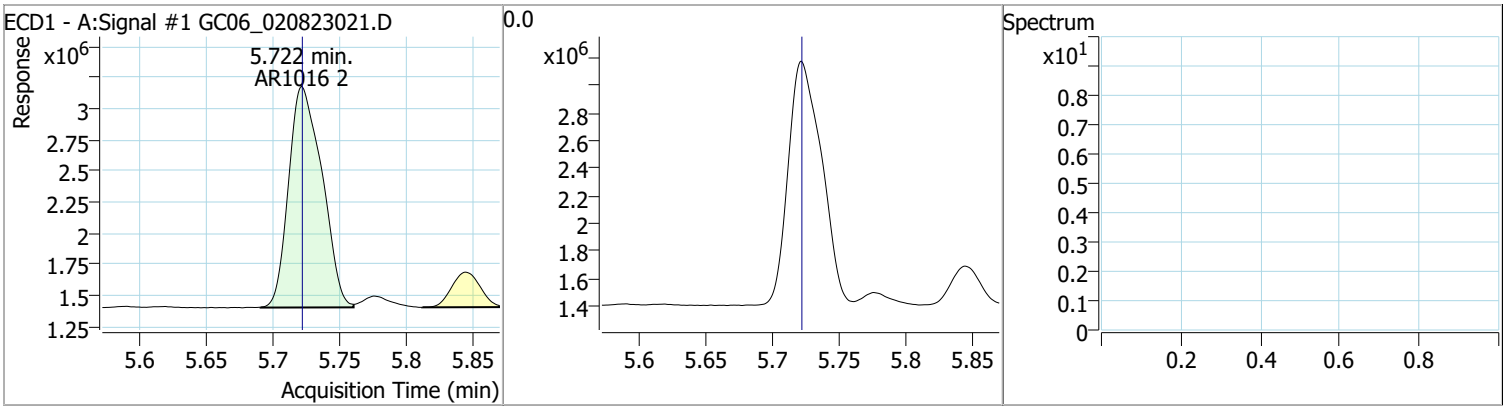
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	889.2604	5.38	0.00	1460229				



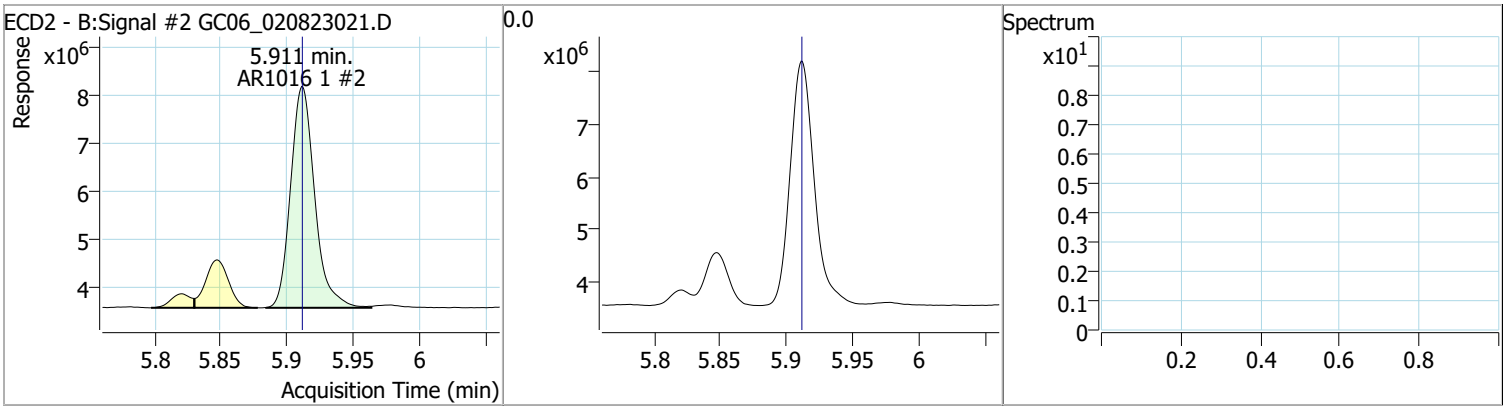
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	71.4446	5.42	0.00	23154612				



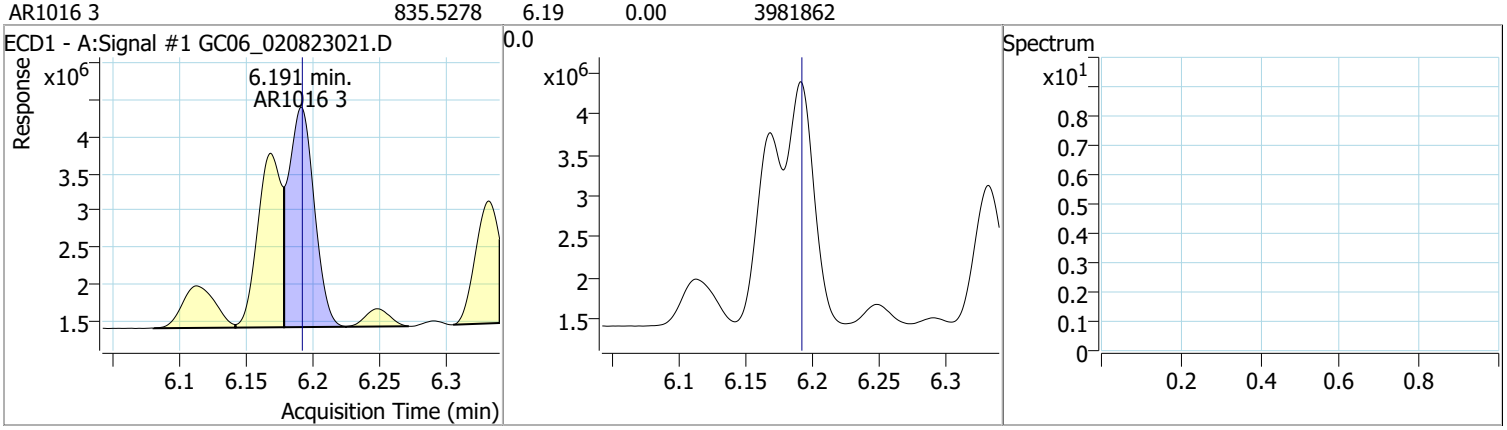
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	1023.1912	5.72	0.00	3102534				



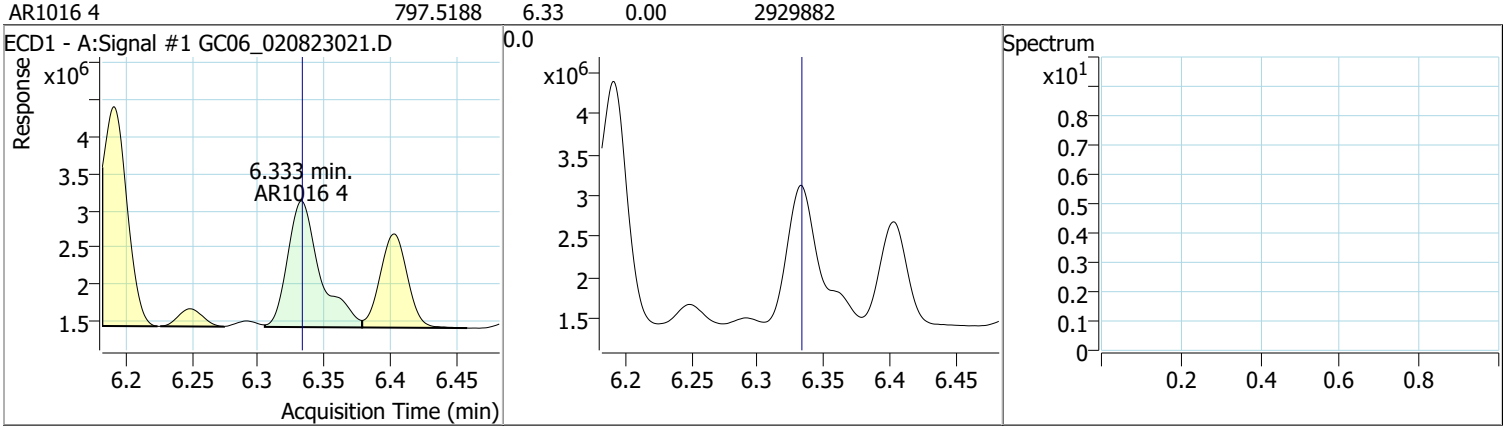
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	878.3614	5.91	0.00	5856983				



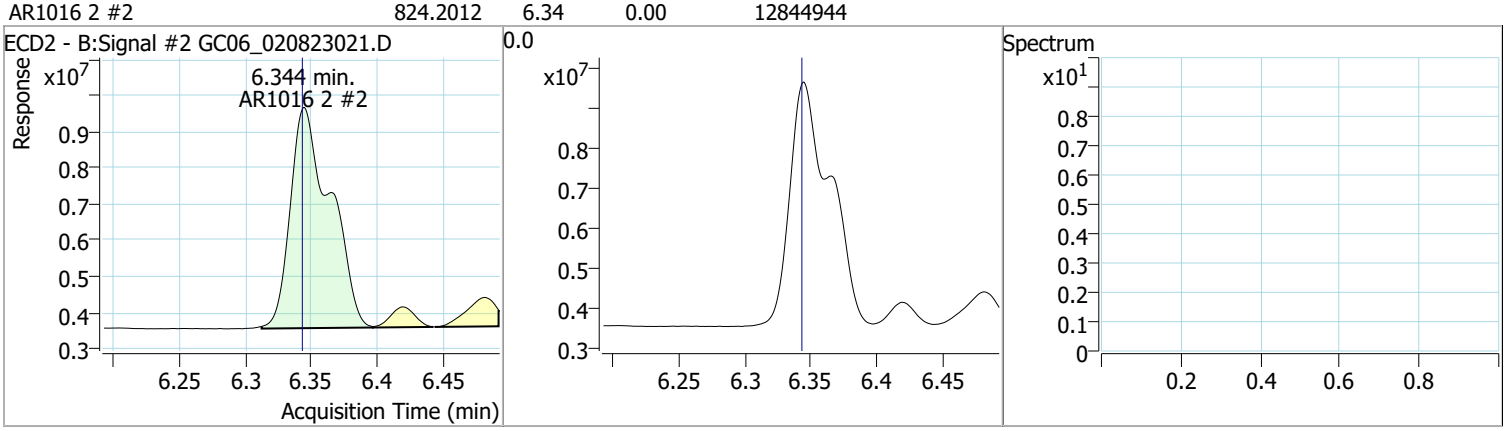
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	835.5278	6.19	0.00	3981862				



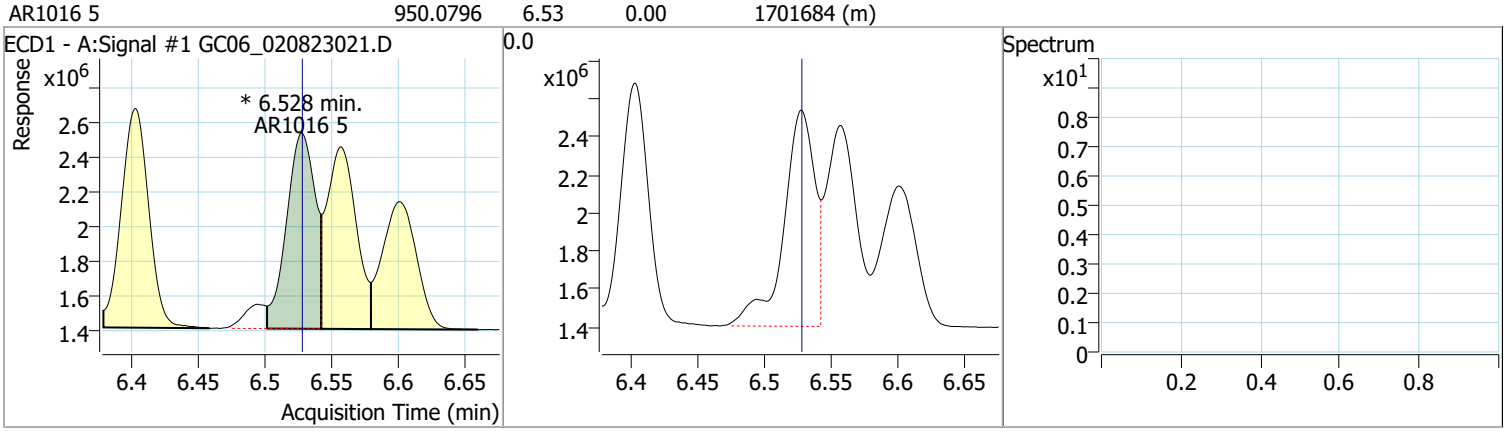
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	797.5188	6.33	0.00	2929882				



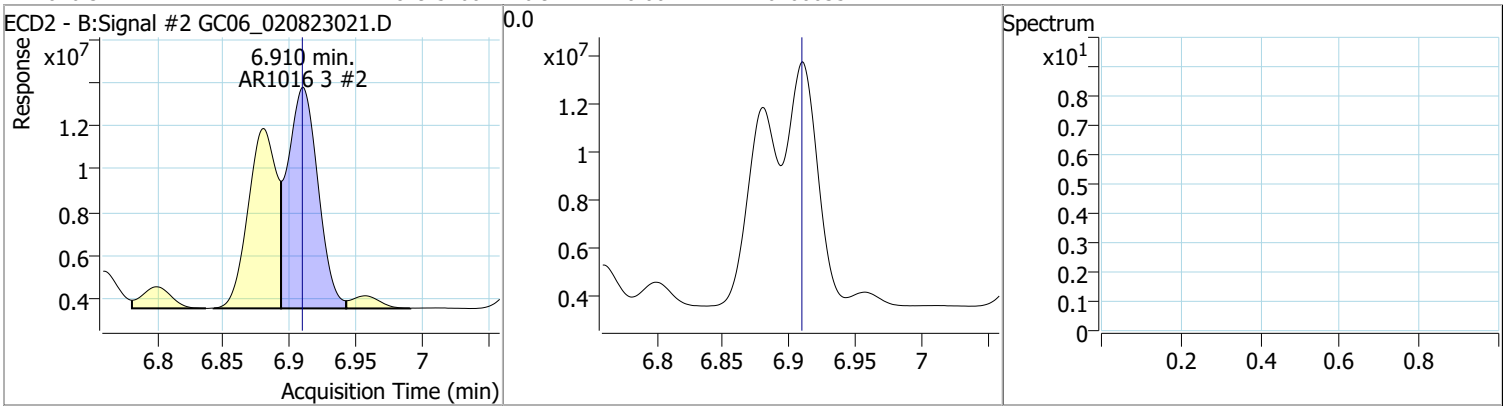
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	824.2012	6.34	0.00	12844944				



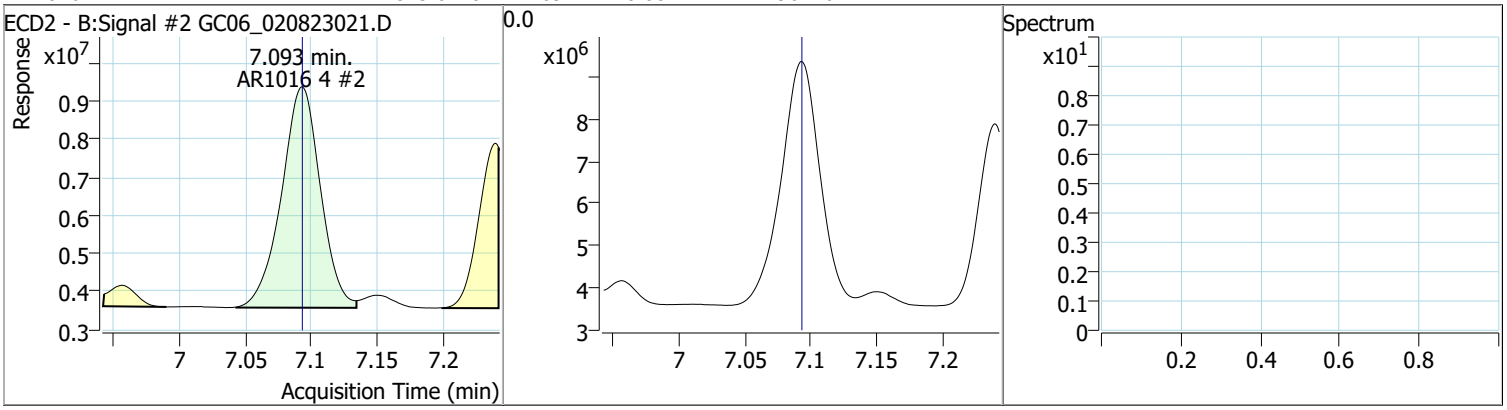
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	950.0796	6.53	0.00	1701684 (m)				



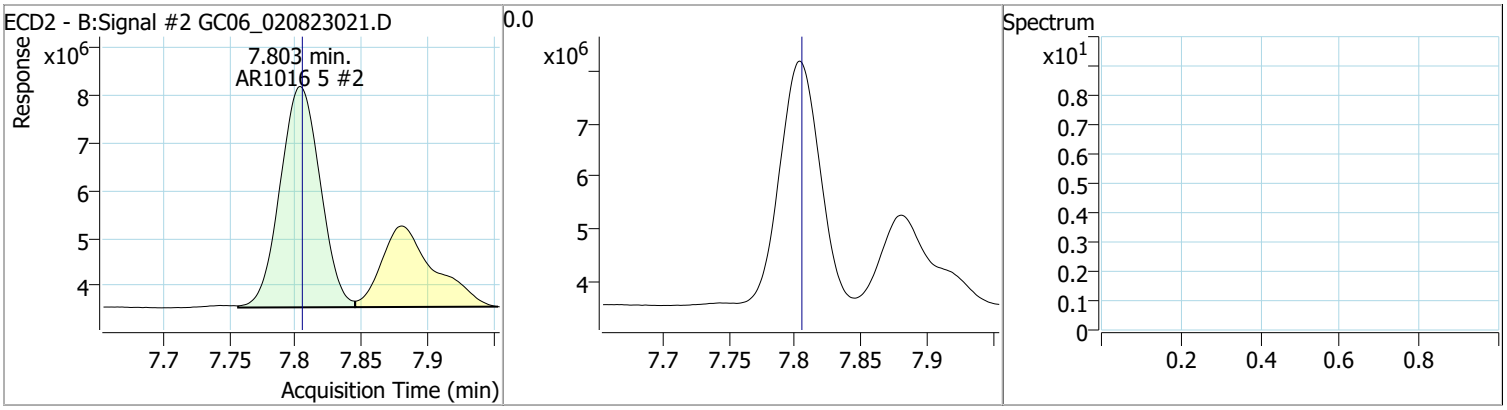
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	849.5460	6.91	0.00	16200035				



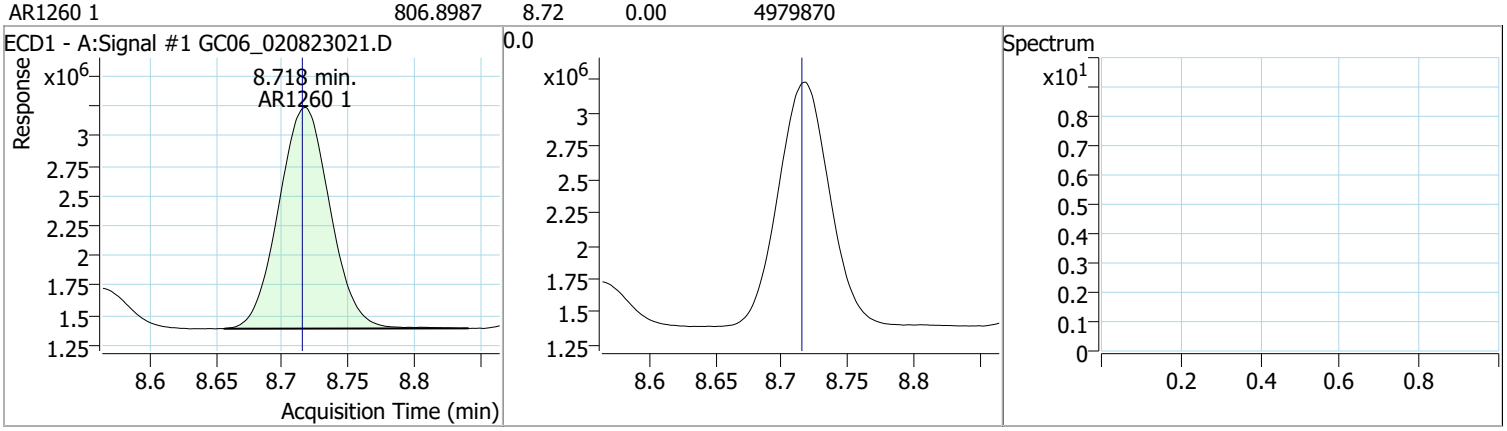
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	875.6778	7.09	0.00	11907102				



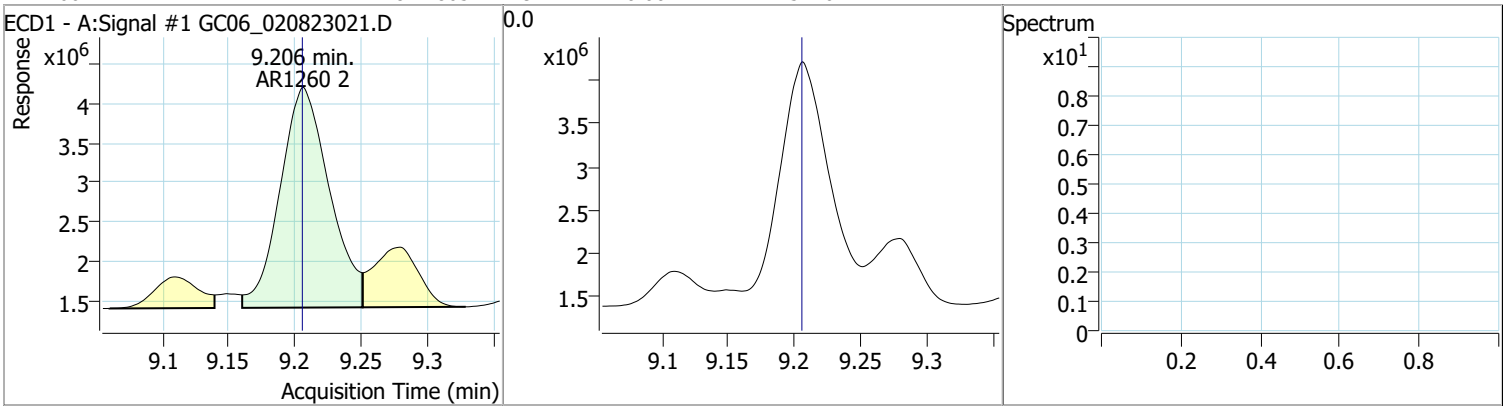
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	887.3162	7.80	0.00	9776748				



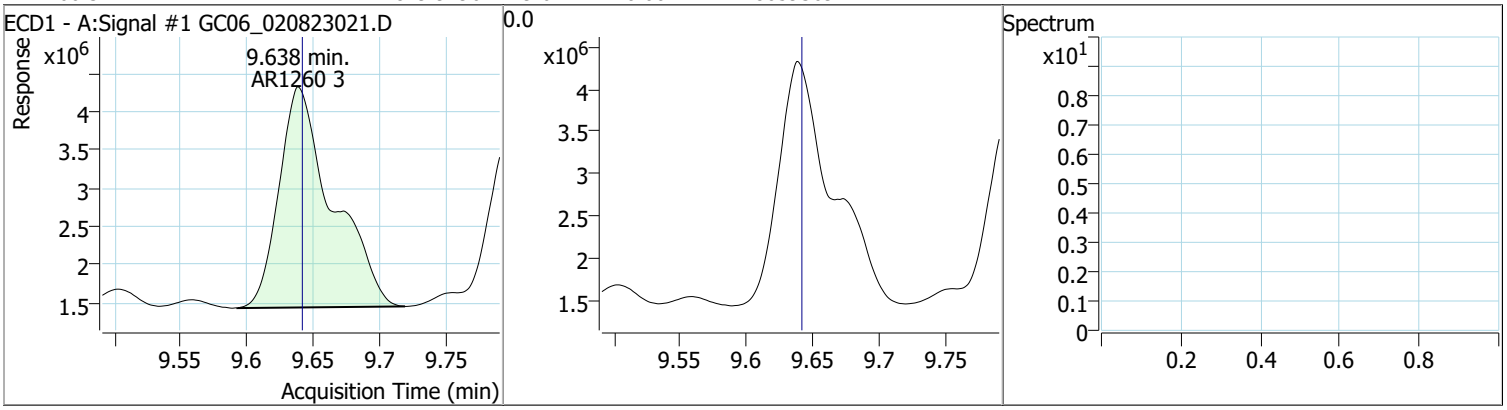
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	806.8987	8.72	0.00	4979870				



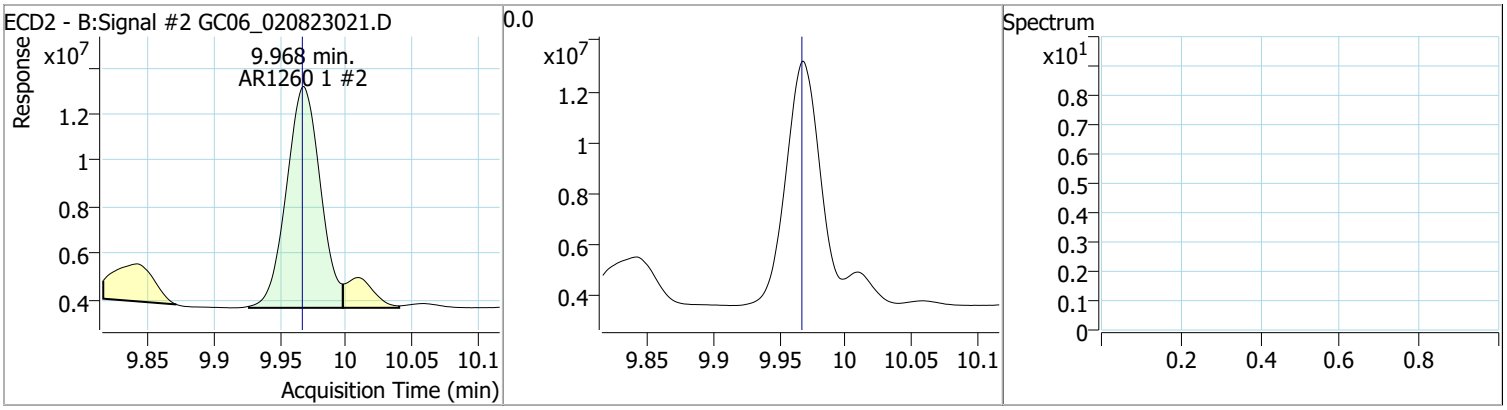
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	841.8651	9.21	0.00	7245120				



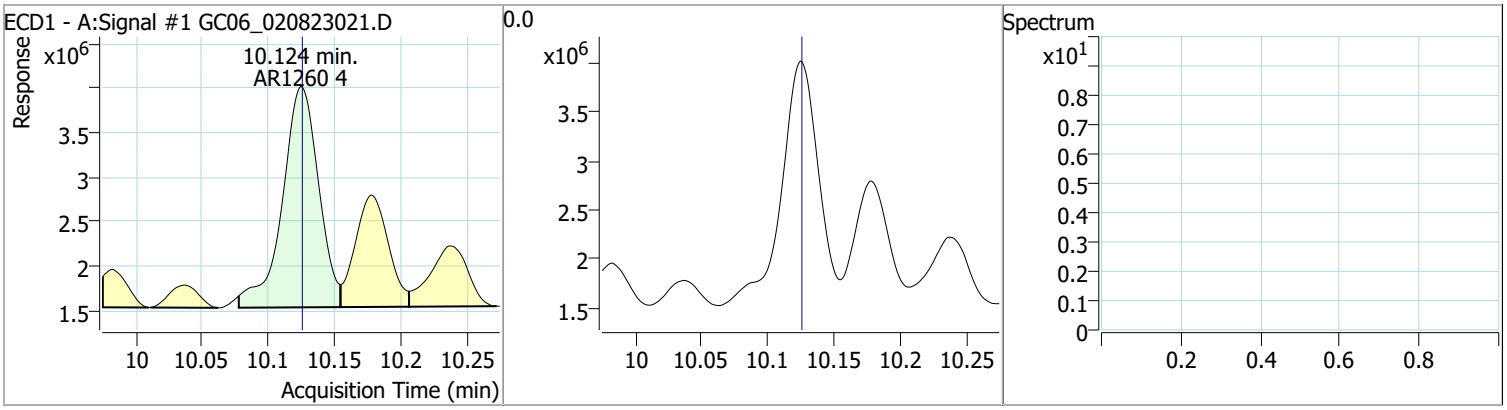
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	829.9496	9.64	0.00	8059369				



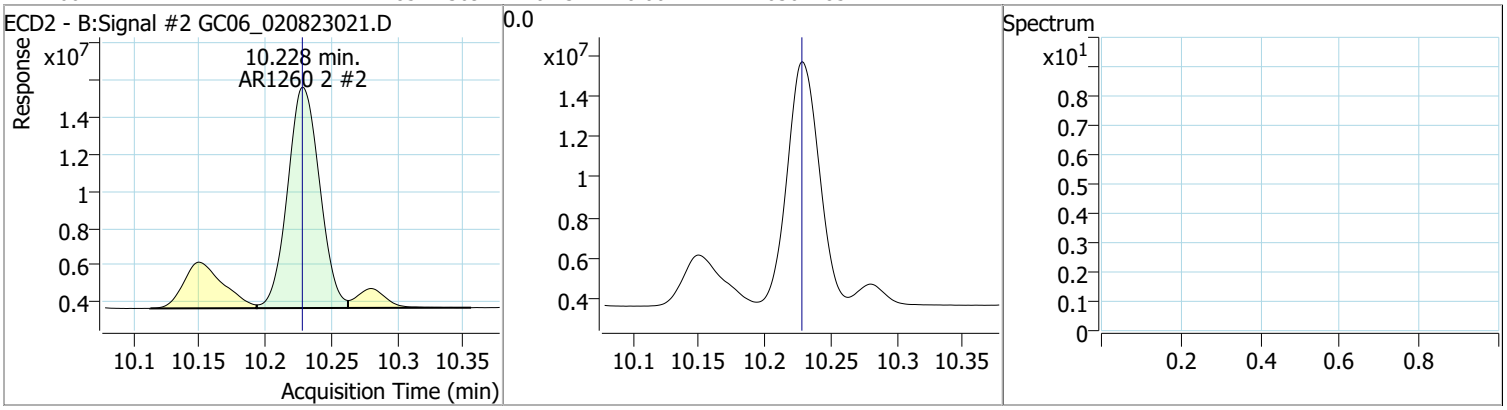
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	845.7785	9.97	0.00	17035552				



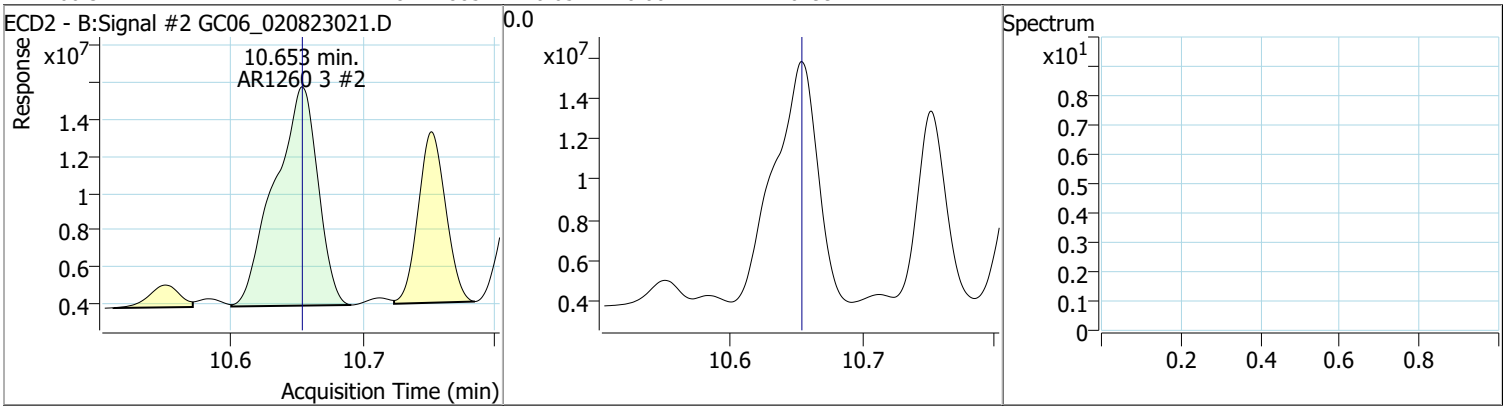
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	928.6335	10.12	0.00	4756159				



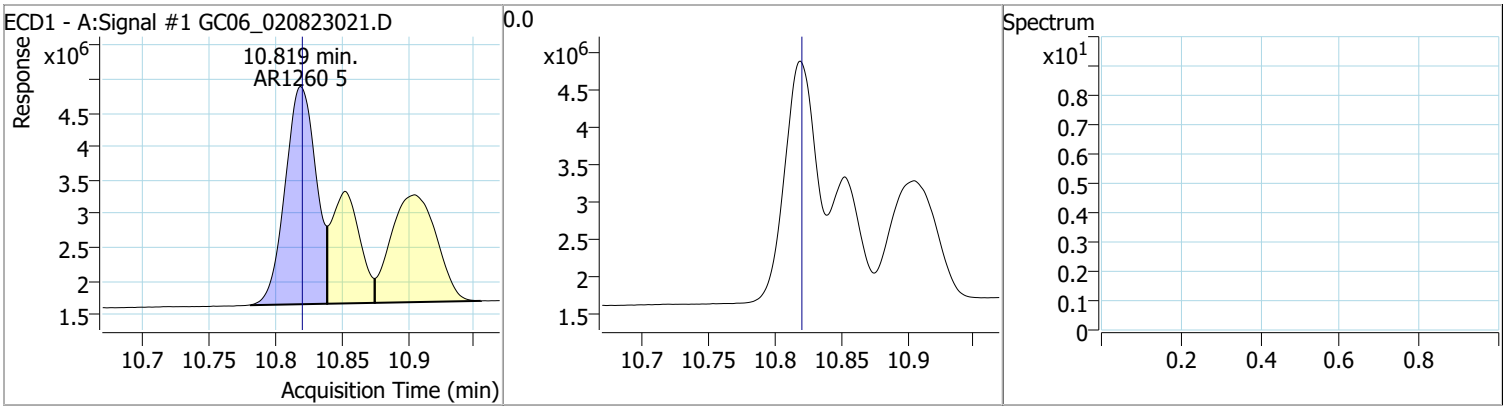
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	854.2309	10.23	0.00	20304485				



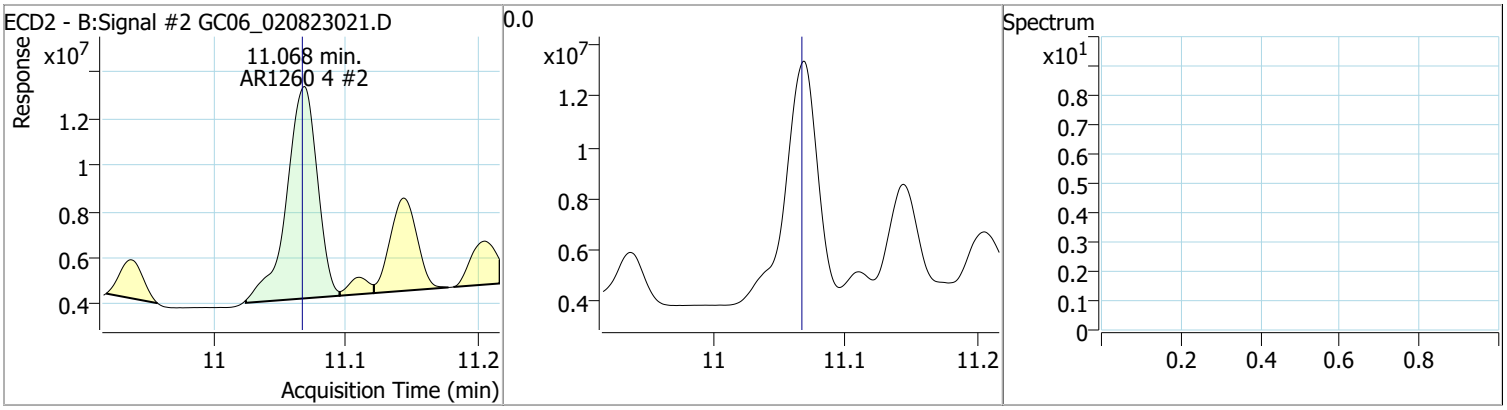
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	874.7885	10.65	0.00	27107994				



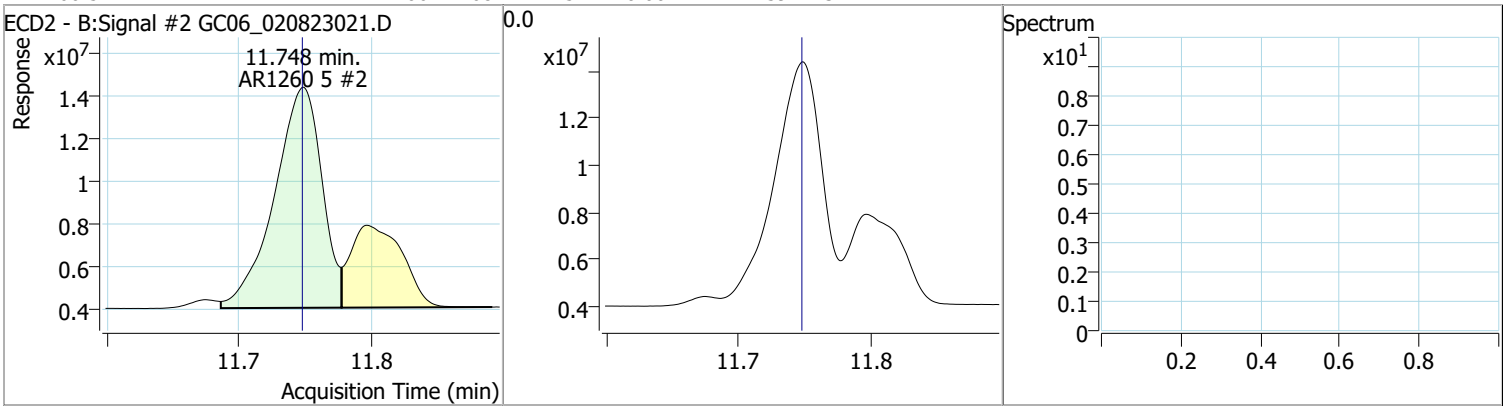
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	896.9538	10.82	0.00	5230081				



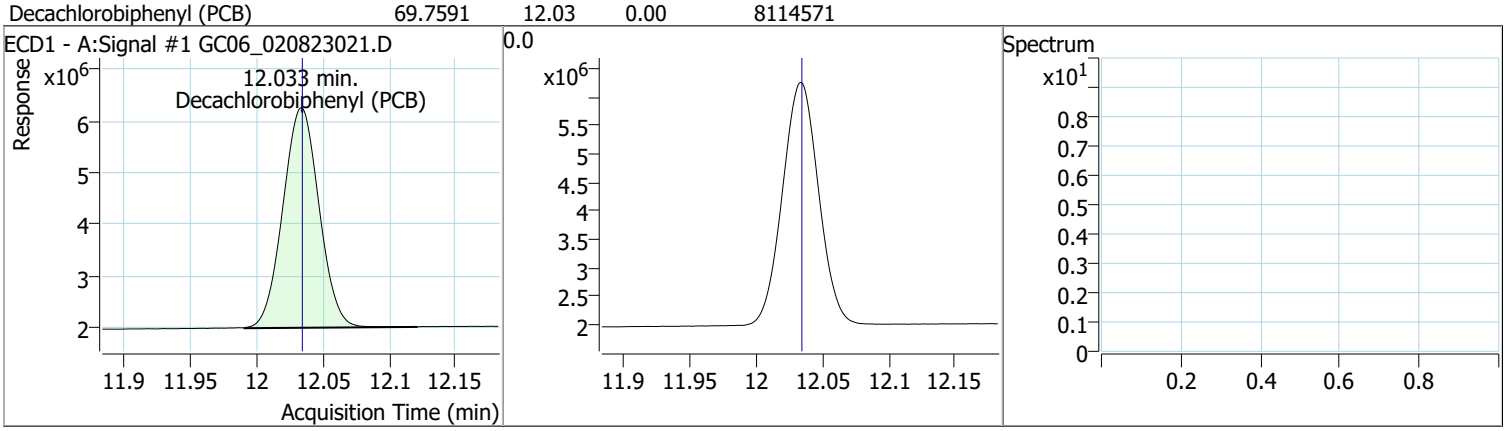
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	905.7396	11.07	0.00	14725487				



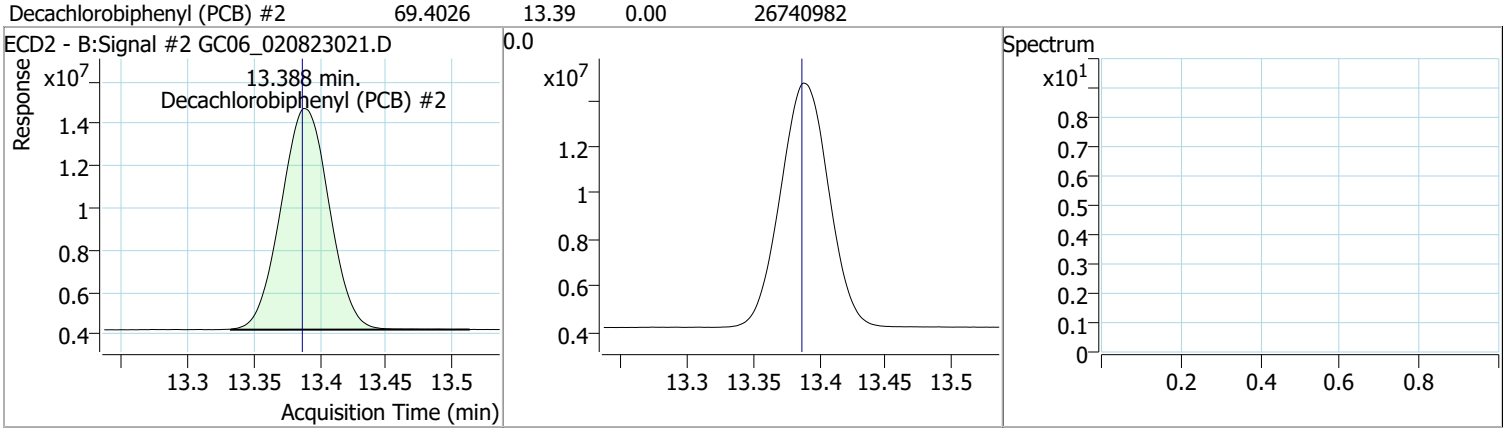
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	1067.4268	11.75	0.00	25947737				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	69.7591	12.03	0.00	8114571				

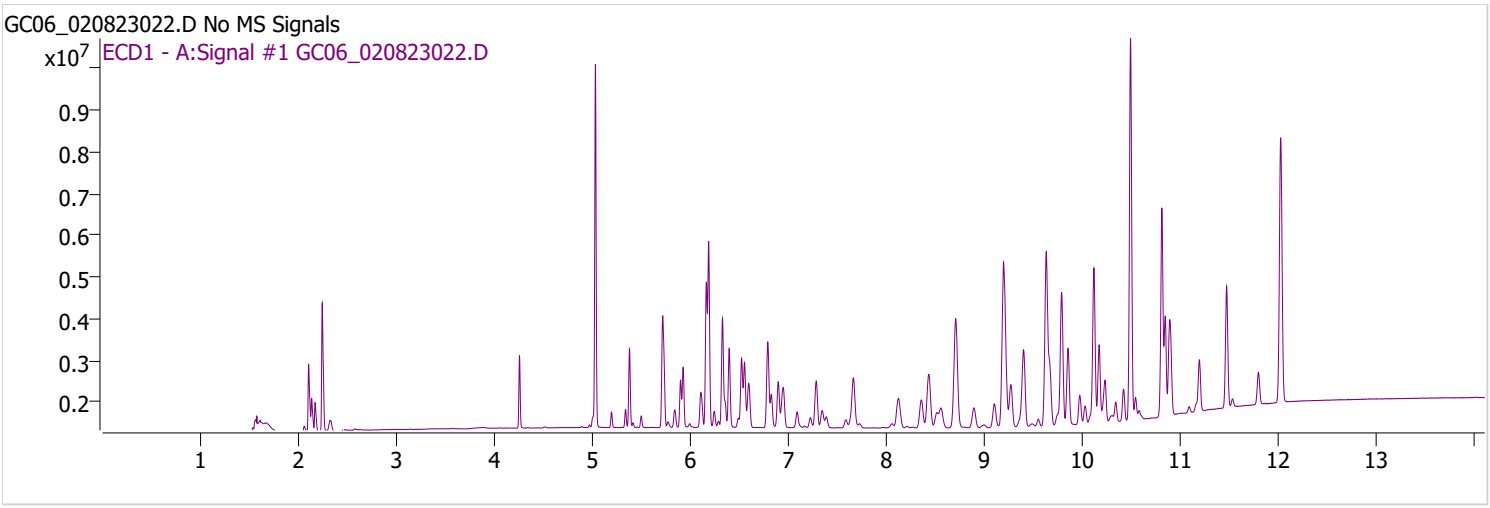


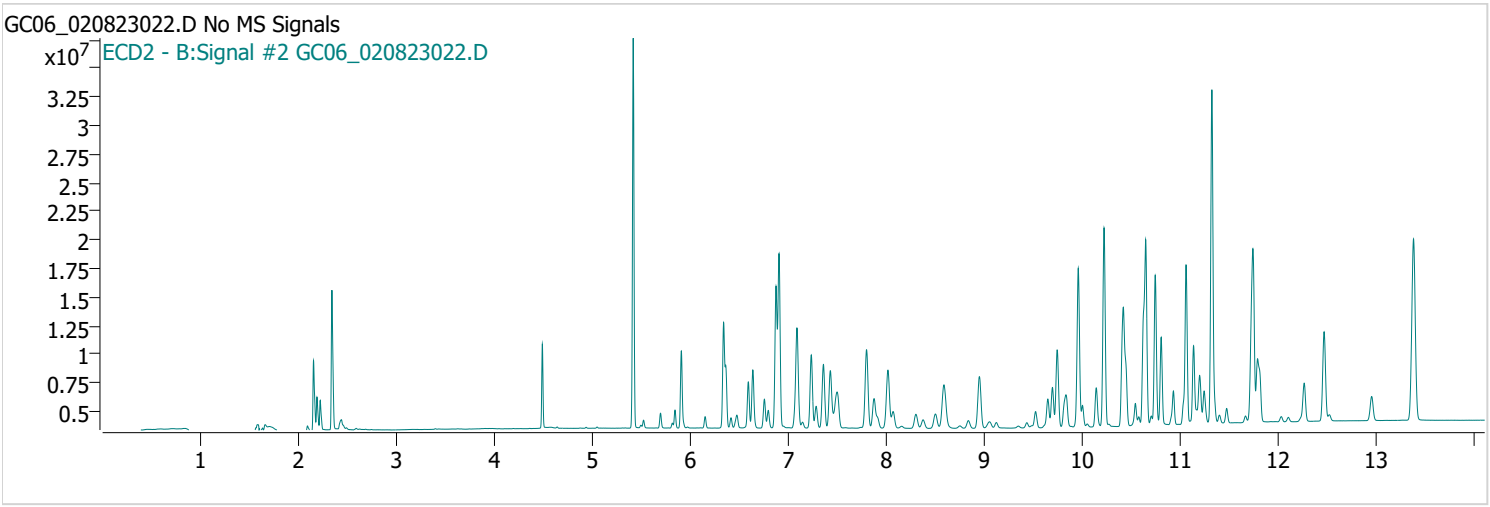
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	69.4026	13.39	0.00	26740982				



Quantitation Results Report (Not Reviewed)

Data File	GC06_020823022.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/8/2023 8:49:42 PM
Sample Name	ICAL, S17804	Instrument	SVOA-GC06
Vial	18	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	020823PCBICAL.batch.bin	Last Calib Update	2/9/2023 1:50:24 PM
Ref Library			



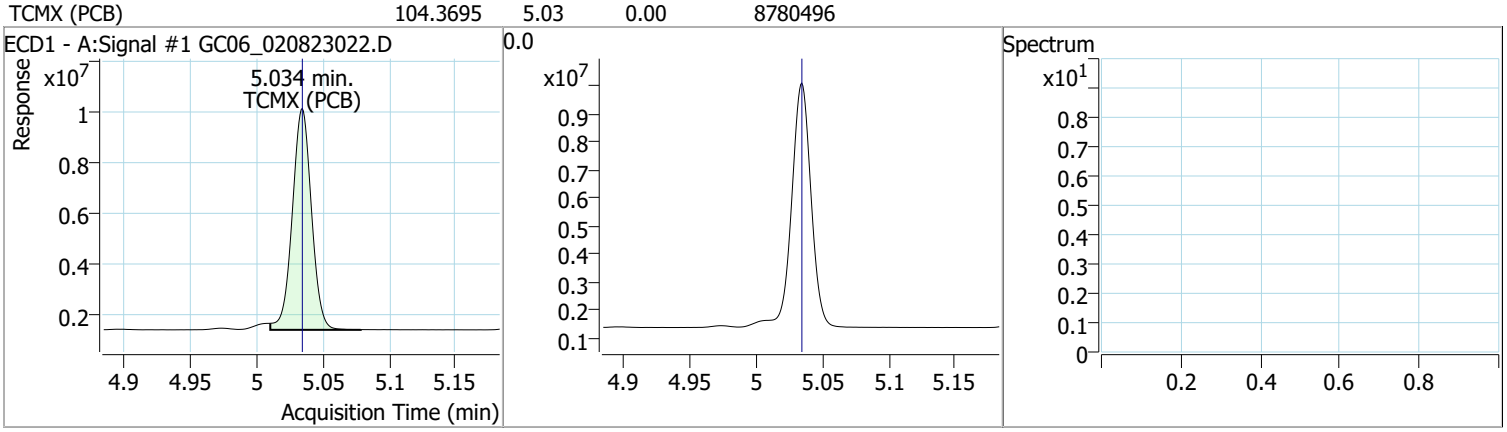


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.258	0.0	1599466.975	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.492	0.0	6652868.929	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.034	0.0	8780495.707	104.3695	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 521.85%		*	
S TCMX (PCB) #2	5.420	0.0	36350607.006	107.5995	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 538.00%		*	
S Decachlorobiphenyl (PCB)	12.033	0.0	12097548.499	99.1346	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 495.67%		*	
S Decachlorobiphenyl (PCB) #2	13.389	0.0	39725502.896	98.9088	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 494.54%		*	
Target Compounds							QValue

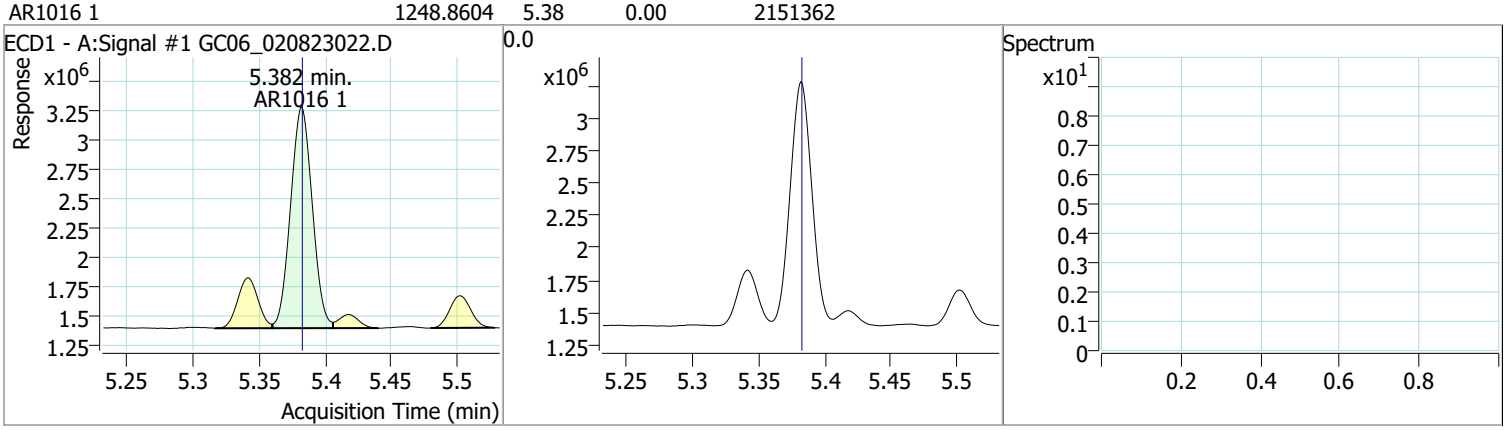
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.382	0.0	2151362.278	1248.8604	ng/ml	100
T AR1016 2	5.721	0.0	4558842.131	1452.7484	ng/ml	100
T AR1016 1 #2	5.912	0.0	8710257.315	1253.1333	ng/ml	100
T AR1016 3	6.190	0.0	5715182.949	1143.1340	ng/ml	100
T AR1016 4	6.332	0.0	4291504.179	1113.5064	ng/ml	100
T AR1016 2 #2	6.343	0.0	18913570.193	1164.2374	ng/ml	100
T AR1016 5	6.527	0.0	2492486.692	1326.4973	ng/ml	100
T AR1016 3 #2	6.909	0.0	24677688.455	1241.4877	ng/ml	100
T AR1016 4 #2	7.092	0.0	17351463.363	1224.1690	ng/ml	100
T AR1016 5 #2	7.803	0.0	14367869.048	1250.9597	ng/ml	100
T AR1260 1	8.713	0.0	6750117.203	1042.5688	ng/ml	100
T AR1260 2	9.203	0.0	10160744.634	1125.4204	ng/ml	100
T AR1260 3	9.638	0.0	11209744.325	1100.3698	ng/ml	100
T AR1260 1 #2	9.965	0.0	24534687.021	1168.5516	ng/ml	100
T AR1260 4	10.125	0.0	6597955.283	1227.9756	ng/ml	100
T AR1260 2 #2	10.228	0.0	29427546.326	1187.6934	ng/ml	100
T AR1260 3 #2	10.653	0.0	37304421.755	1154.8697	ng/ml	100
T AR1260 5	10.818	0.0	7742949.405	1265.7864	ng/ml	100
T AR1260 4 #2	11.066	0.0	20868291.331	1231.3671	ng/ml	100
T AR1260 5 #2	11.748	0.0	35139041.685	1398.5555	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

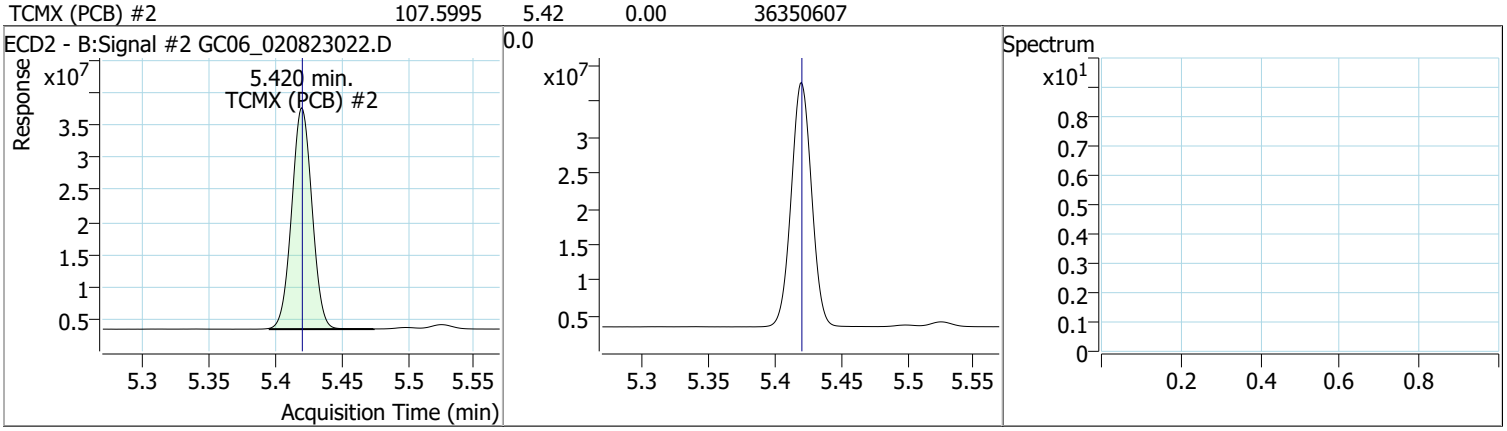
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	104.3695	5.03	0.00	8780496				



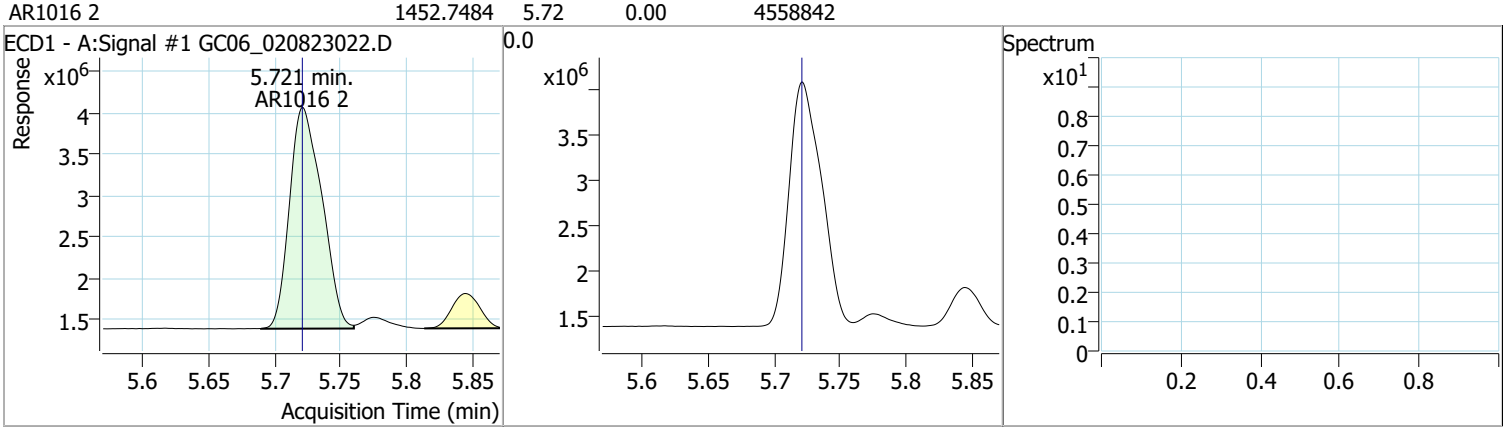
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	1248.8604	5.38	0.00	2151362				



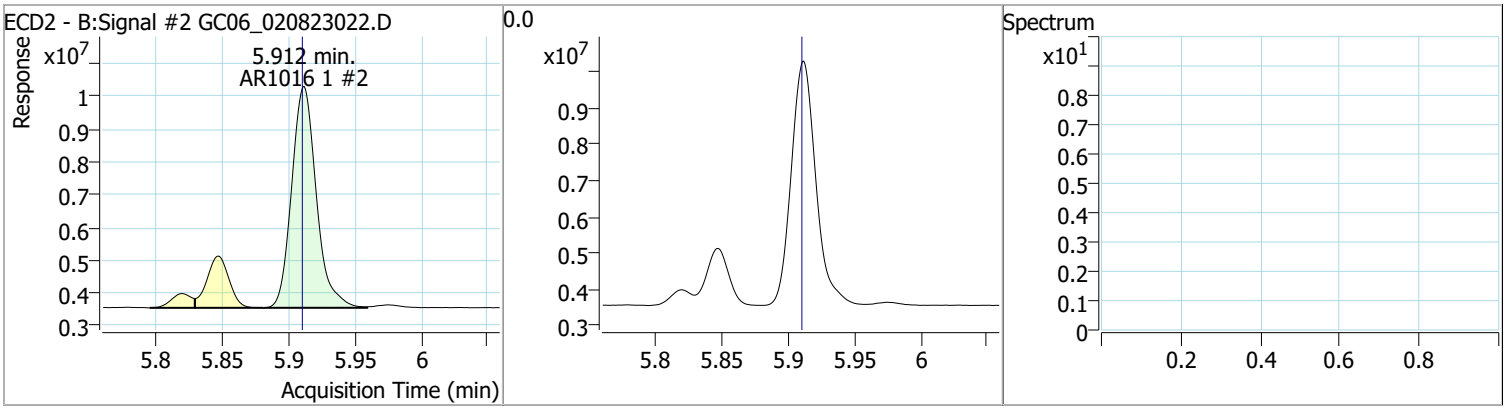
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	107.5995	5.42	0.00	36350607				



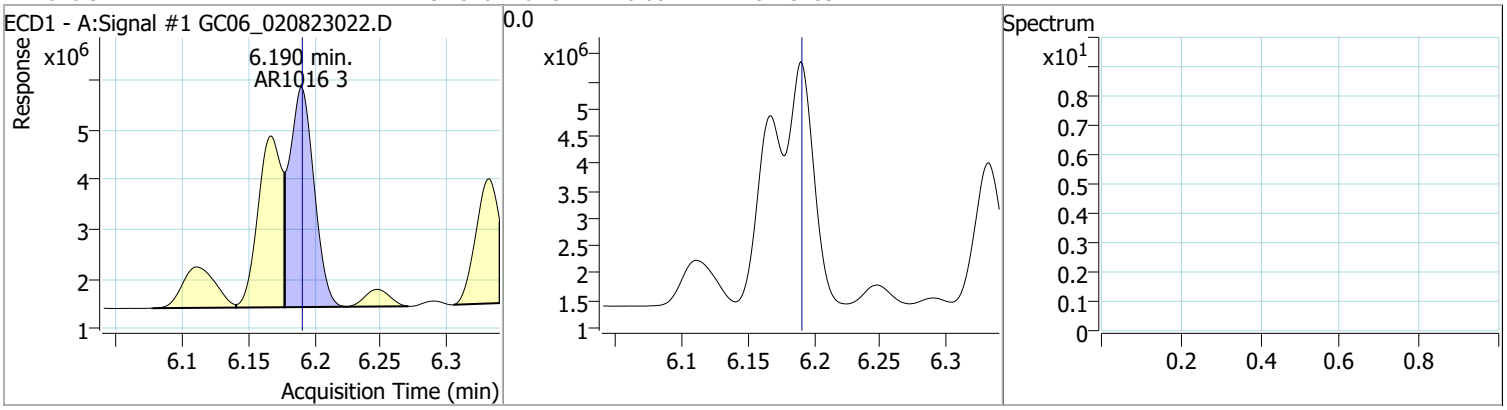
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	1452.7484	5.72	0.00	4558842				



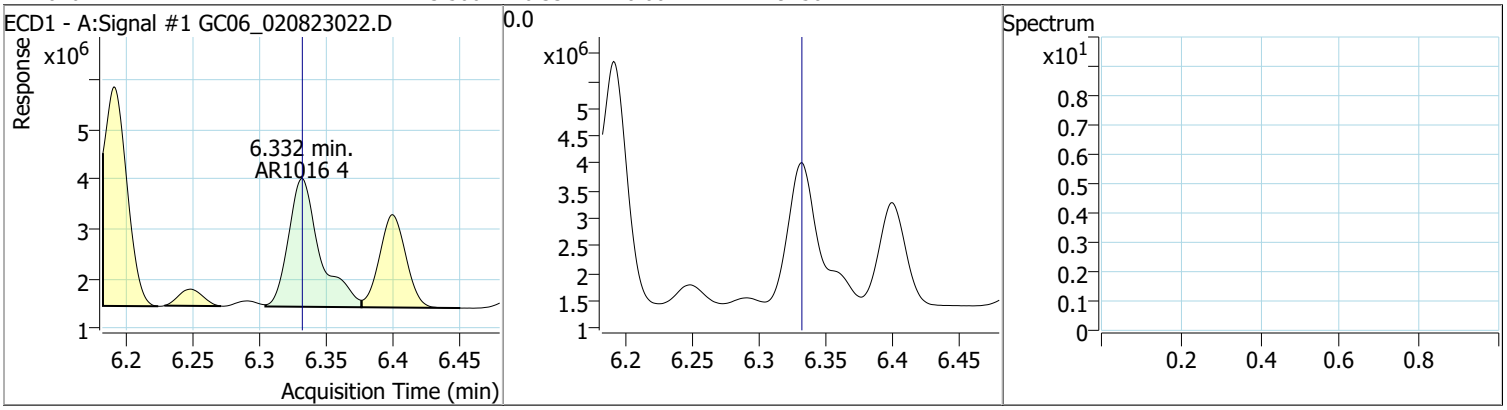
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1253.1333	5.91	0.00	8710257				



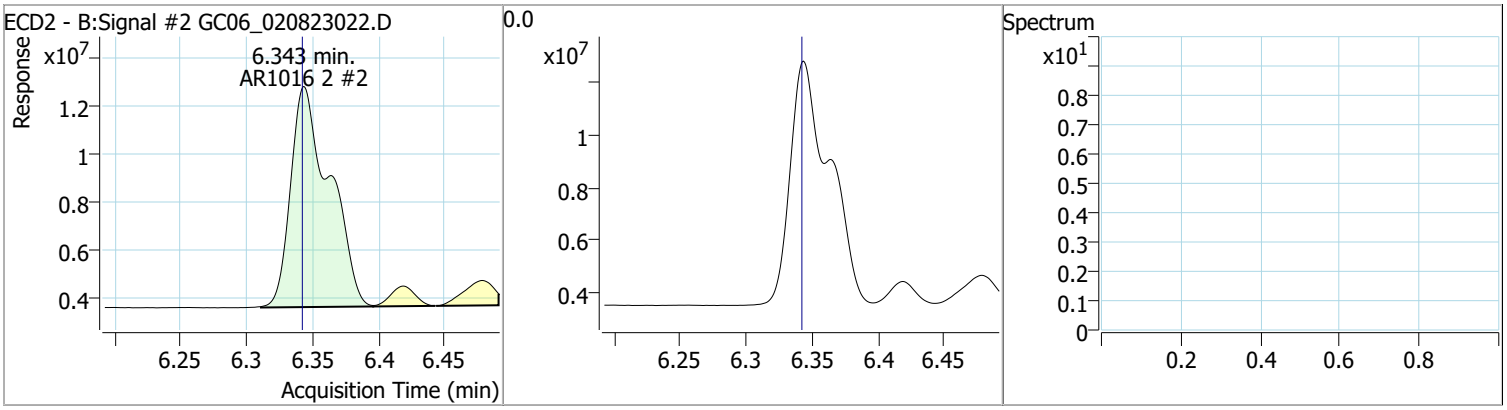
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	1143.1340	6.19	0.00	5715183				



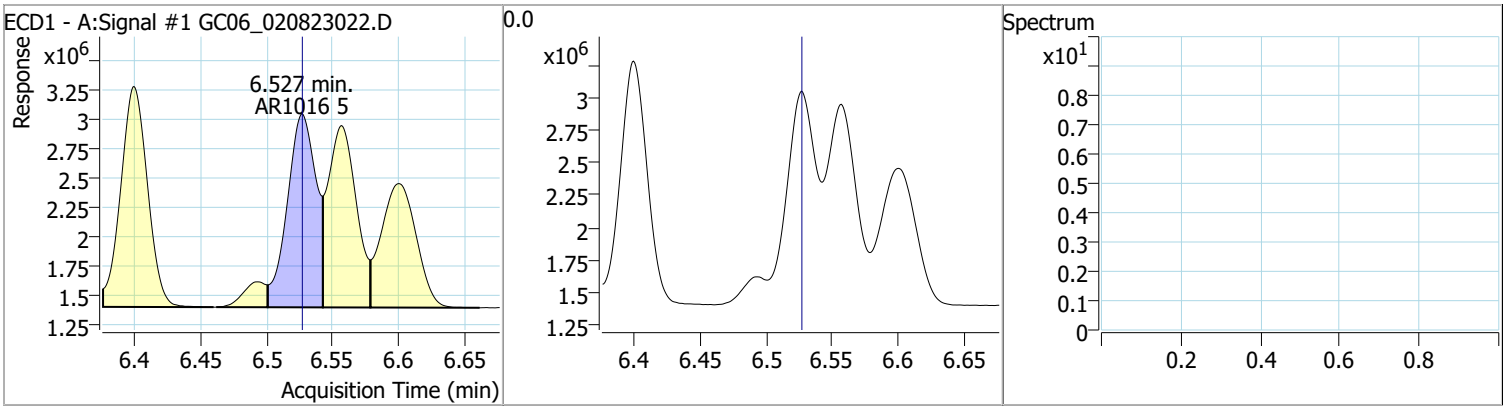
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1113.5064	6.33	0.00	4291504				



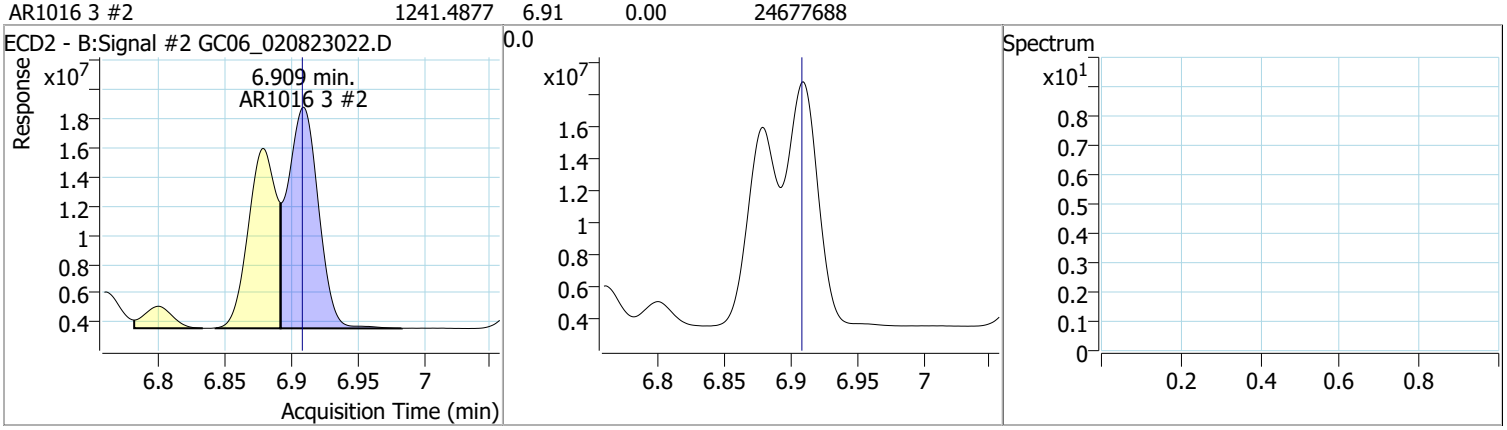
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	1164.2374	6.34	0.00	18913570				



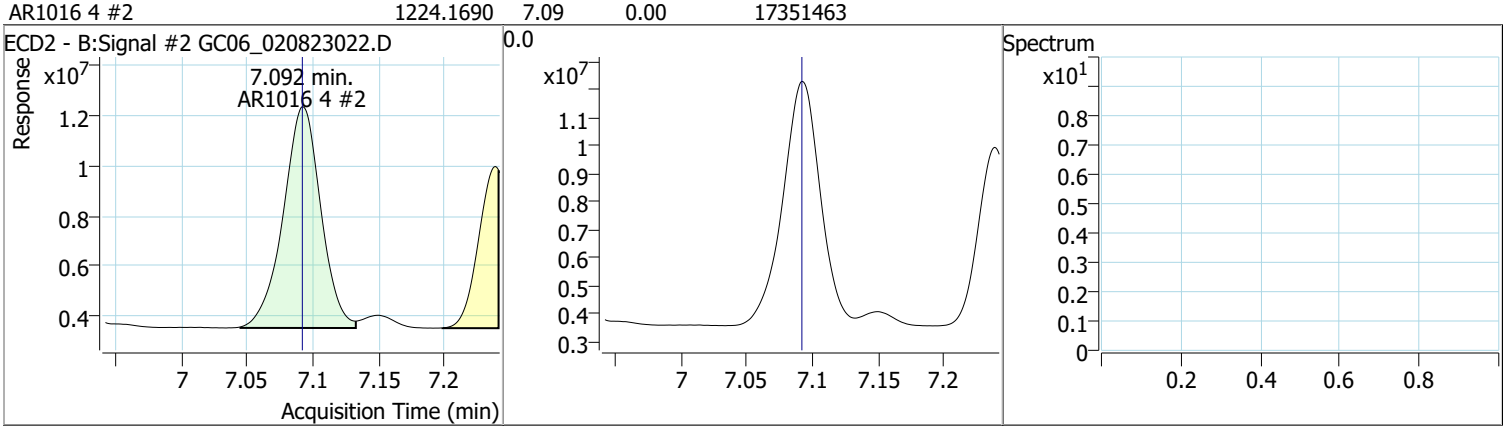
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	1326.4973	6.53	0.00	2492487				



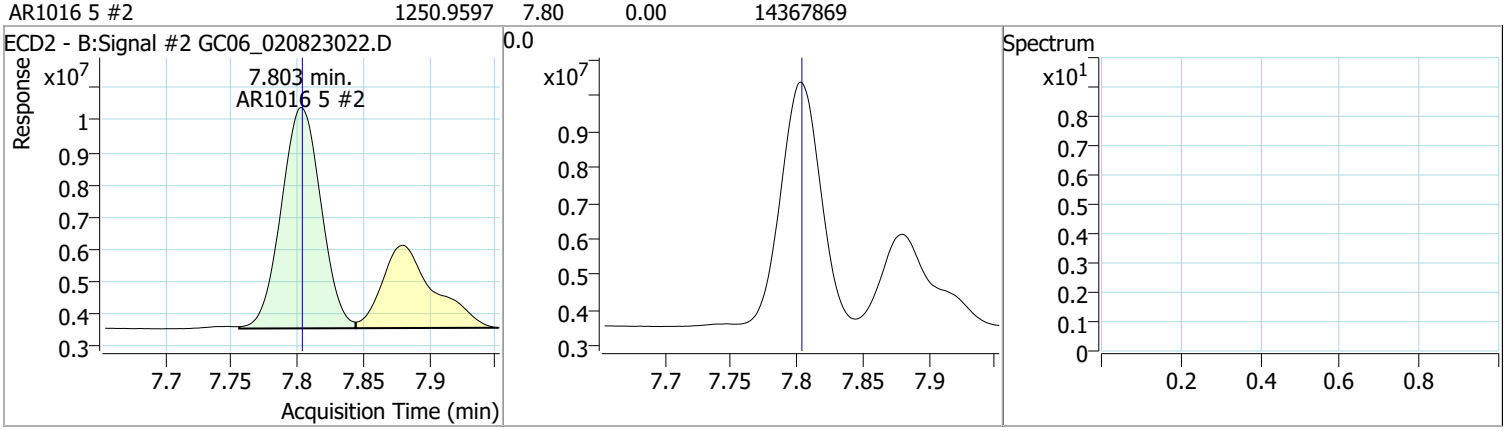
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	1241.4877	6.91	0.00	24677688				



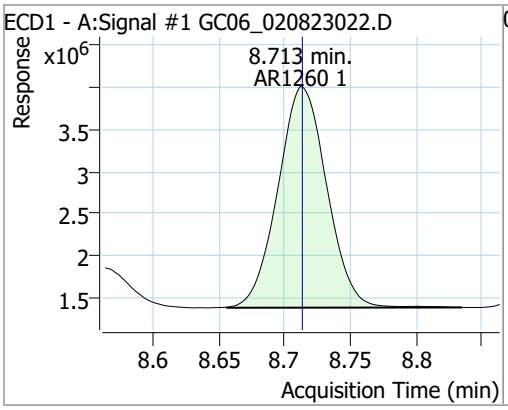
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AR1016 4 #2	1224.1690	7.09	0.00	17351463				

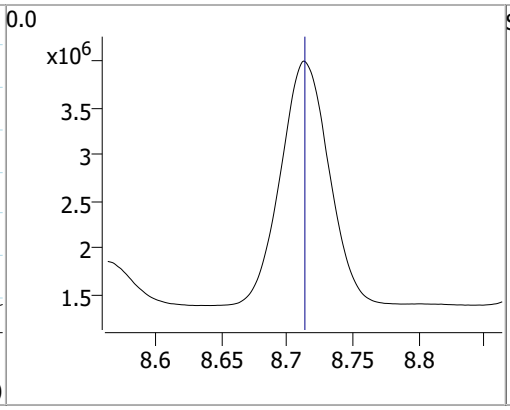


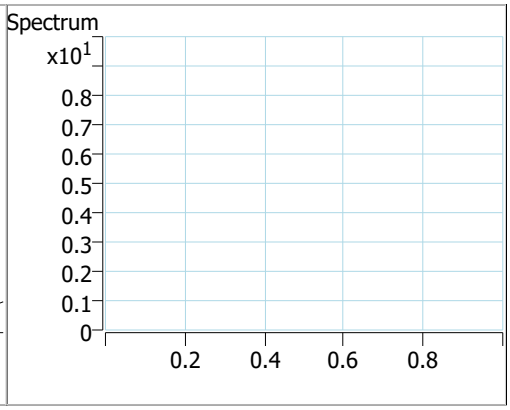
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	1250.9597	7.80	0.00	14367869				



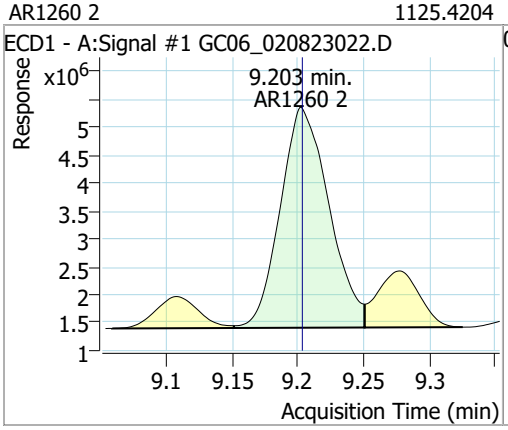
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1042.5688	8.71	0.00	6750117				

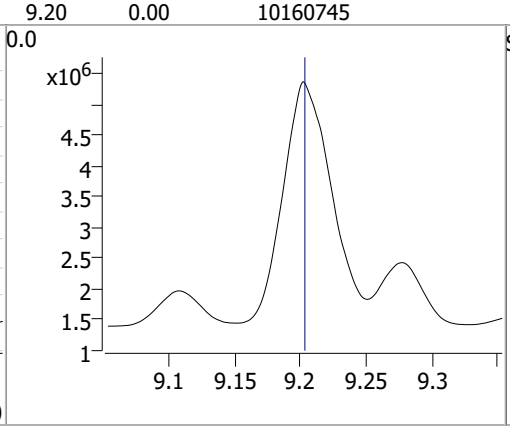


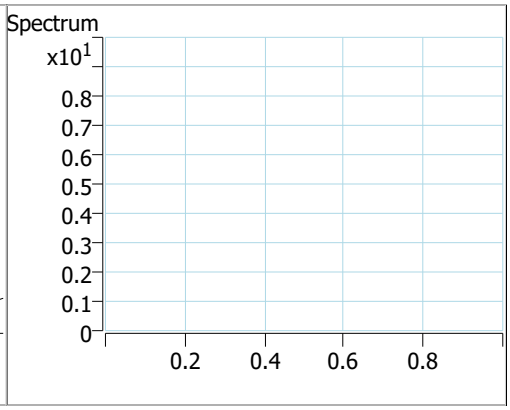




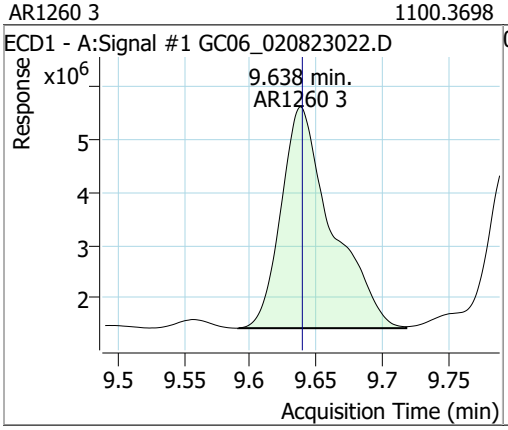
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1125.4204	9.20	0.00	10160745				

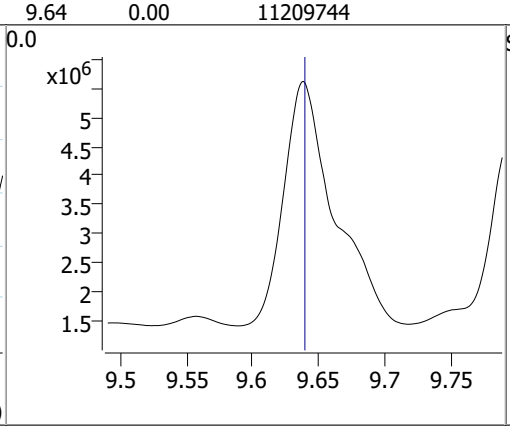


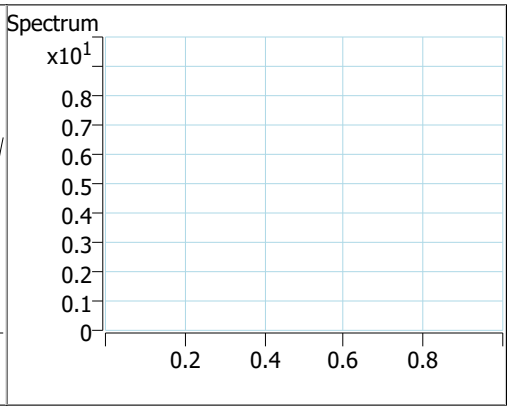




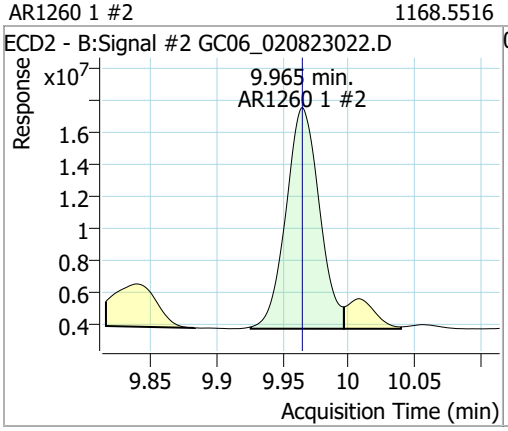
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	1100.3698	9.64	0.00	11209744				

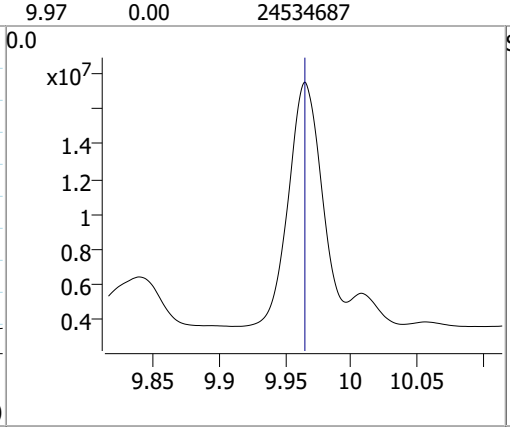


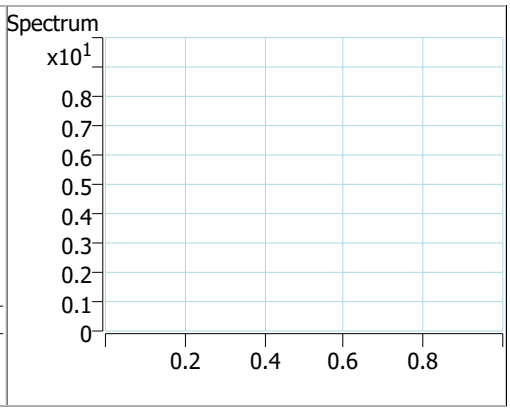




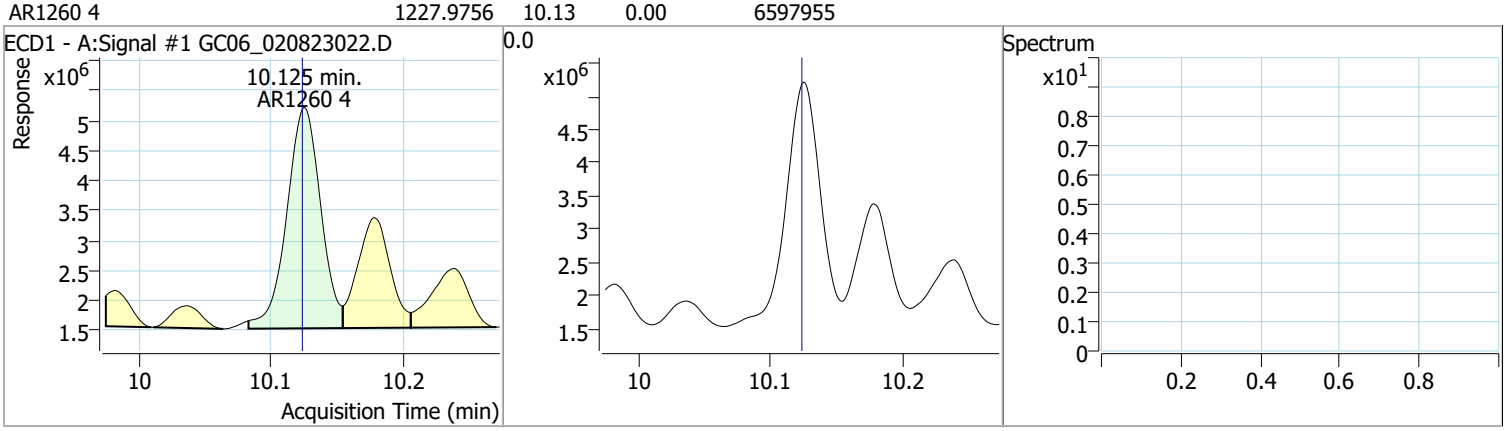
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	1168.5516	9.97	0.00	24534687				



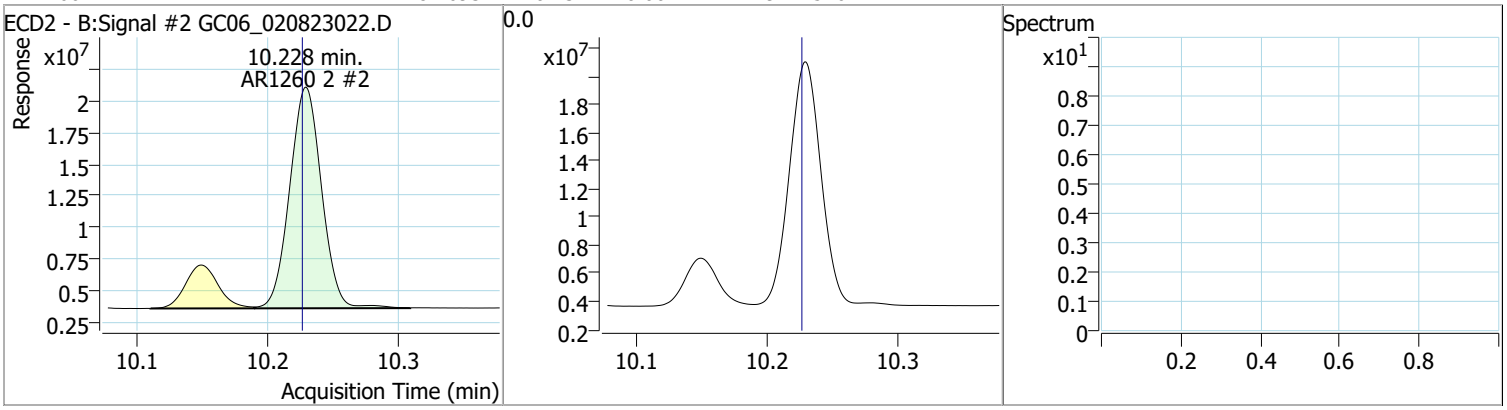




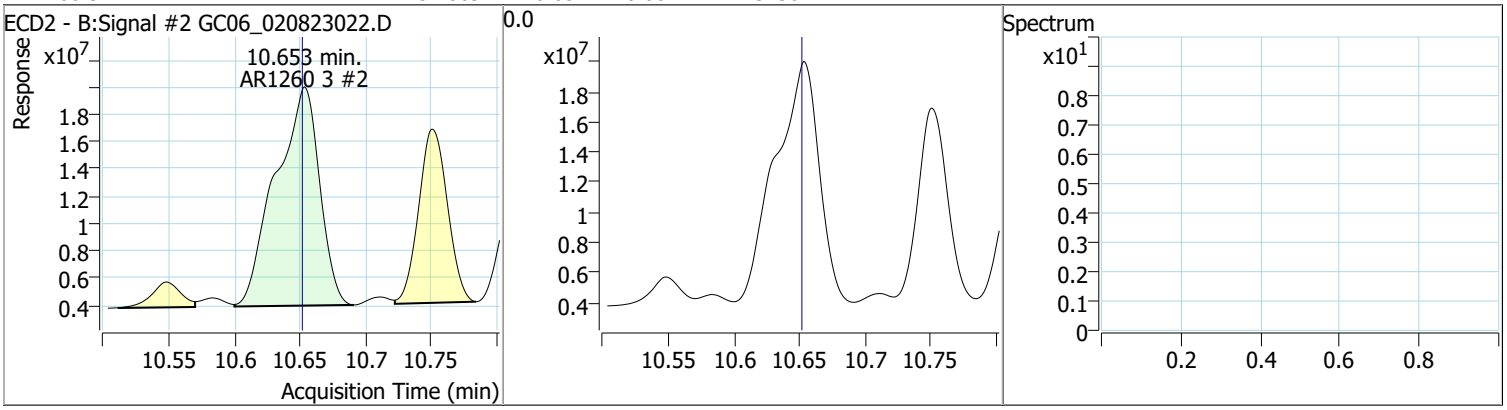
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	1227.9756	10.13	0.00	6597955				



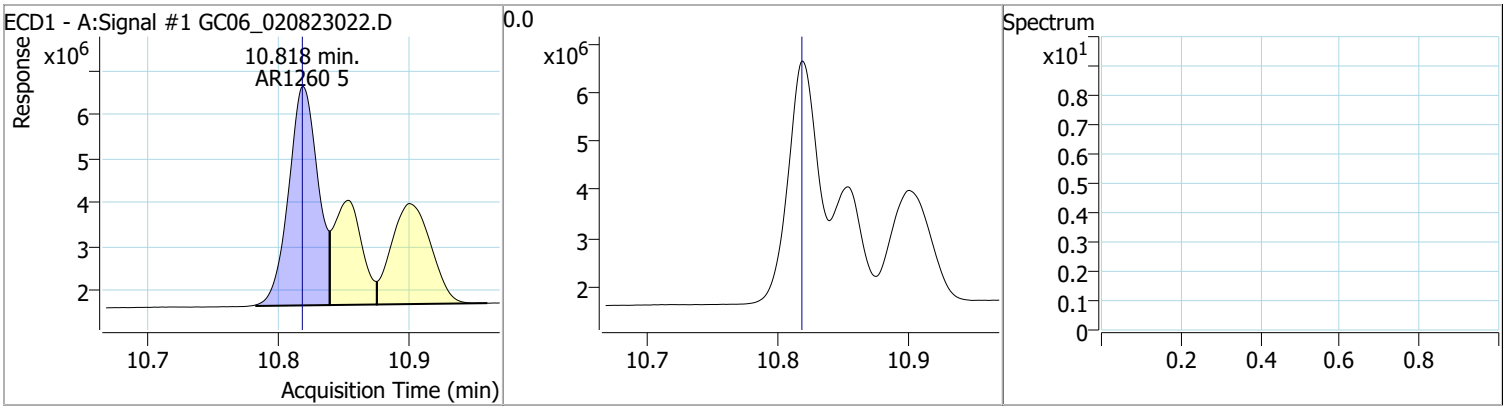
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	1187.6934	10.23	0.00	29427546				



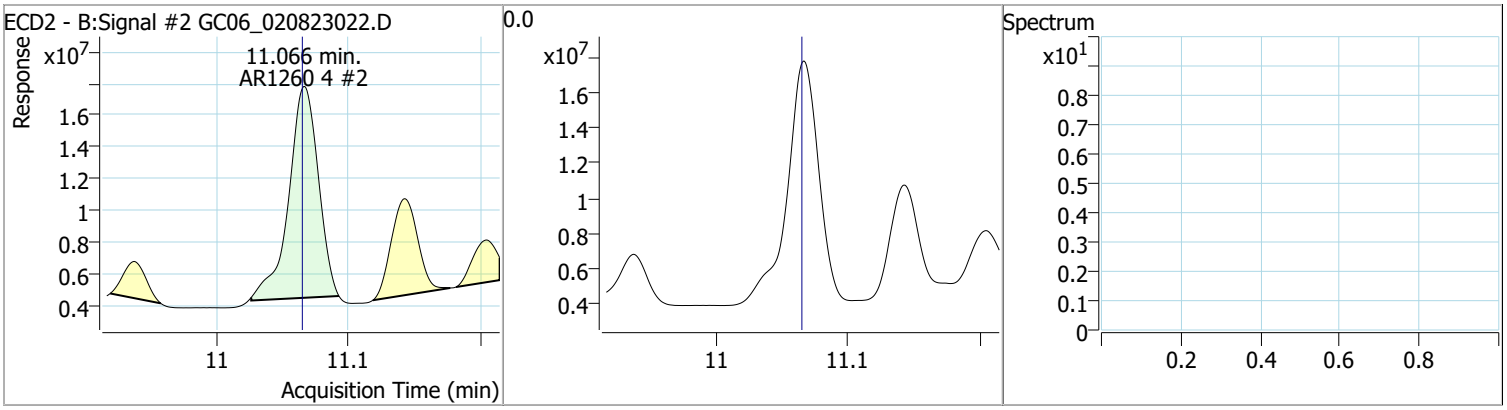
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	1154.8697	10.65	0.00	37304422				



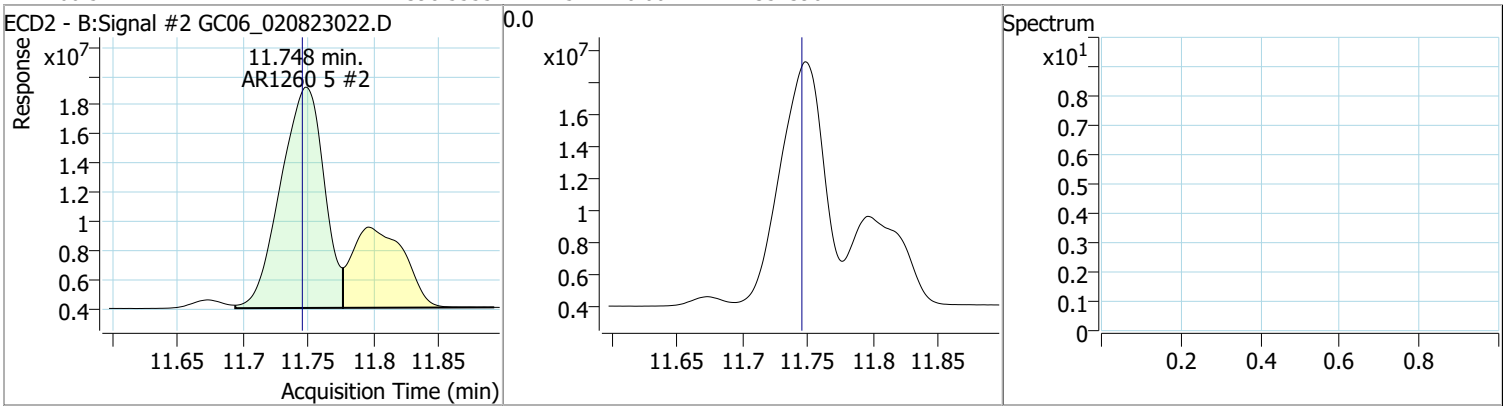
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	1265.7864	10.82	0.00	7742949				



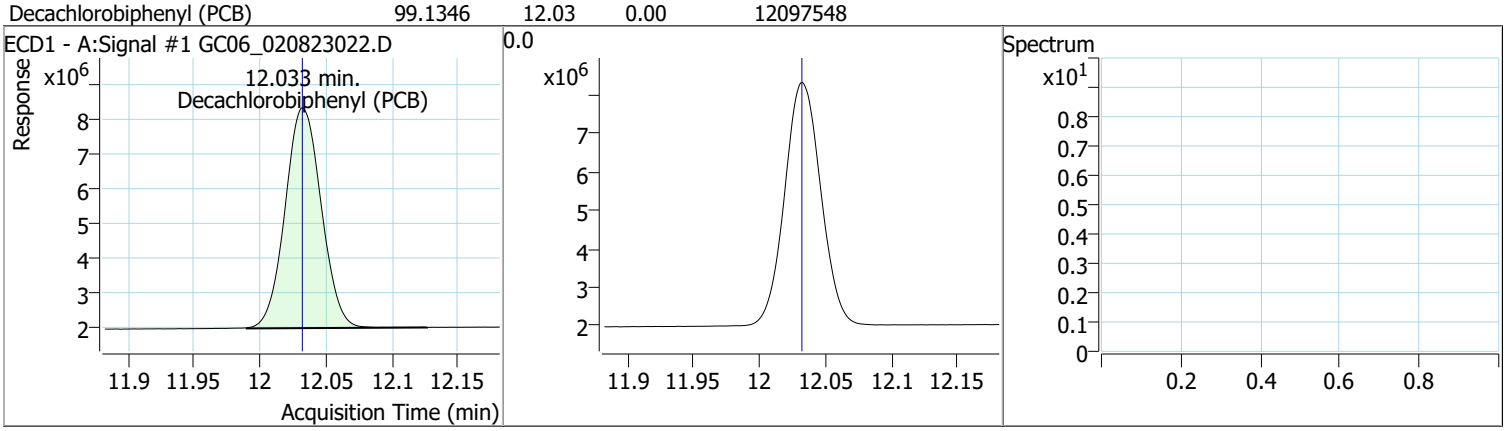
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	1231.3671	11.07	0.00	20868291				



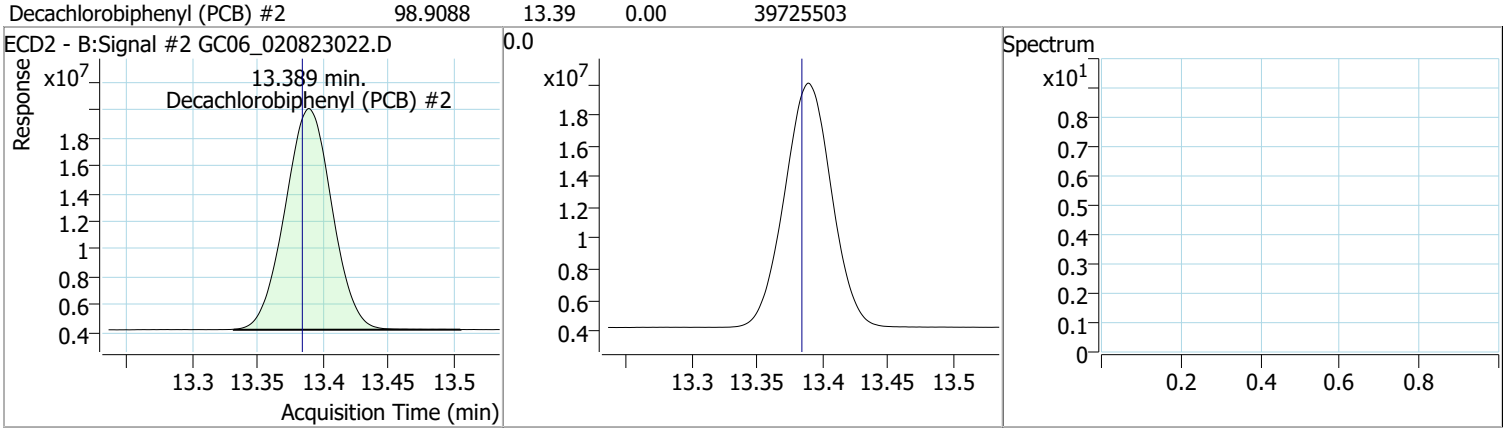
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	1398.5555	11.75	0.00	35139042				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	99.1346	12.03	0.00	12097548				

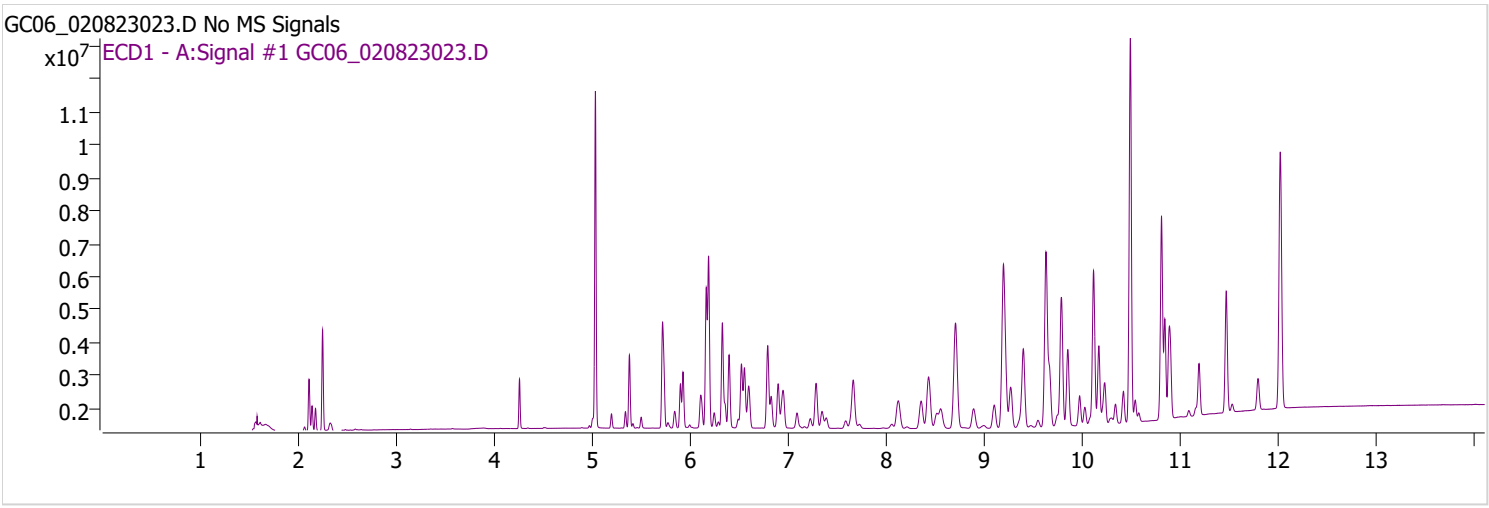


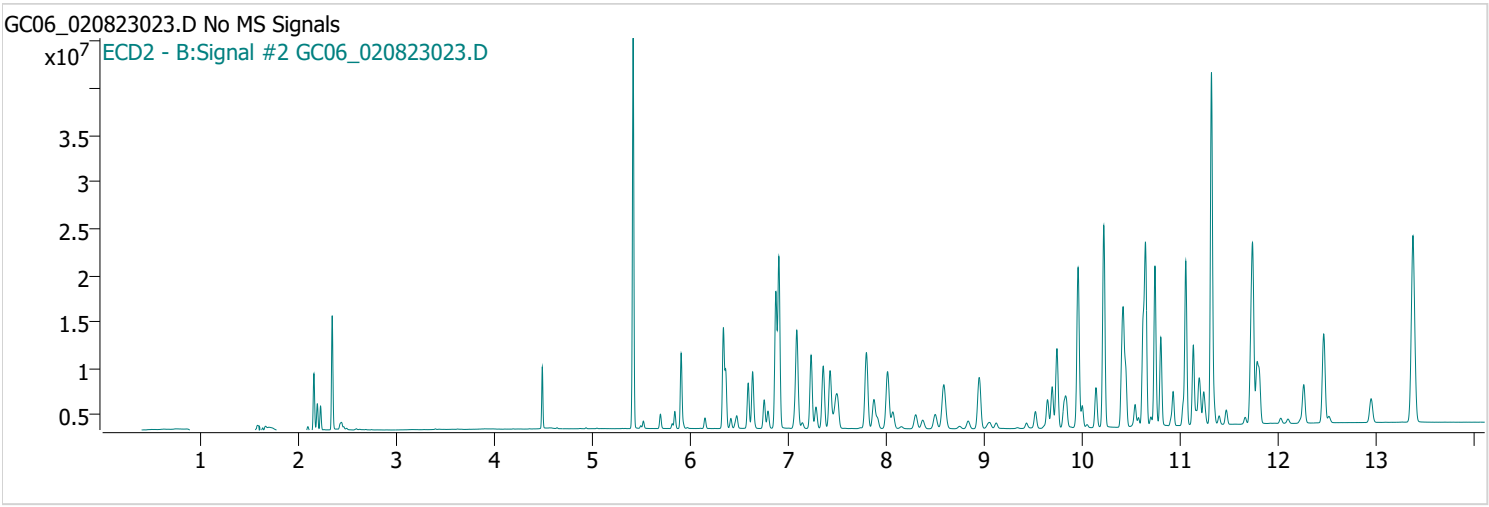
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	98.9088	13.39	0.00	39725503				



Quantitation Results Report (Not Reviewed)

Data File	GC06_020823023.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/8/2023 9:07:59 PM
Sample Name	ICAL, S17805	Instrument	SVOA-GC06
Vial	19	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	020823PCBICAL.batch.bin	Last Calib Update	2/9/2023 1:50:24 PM
Ref Library			



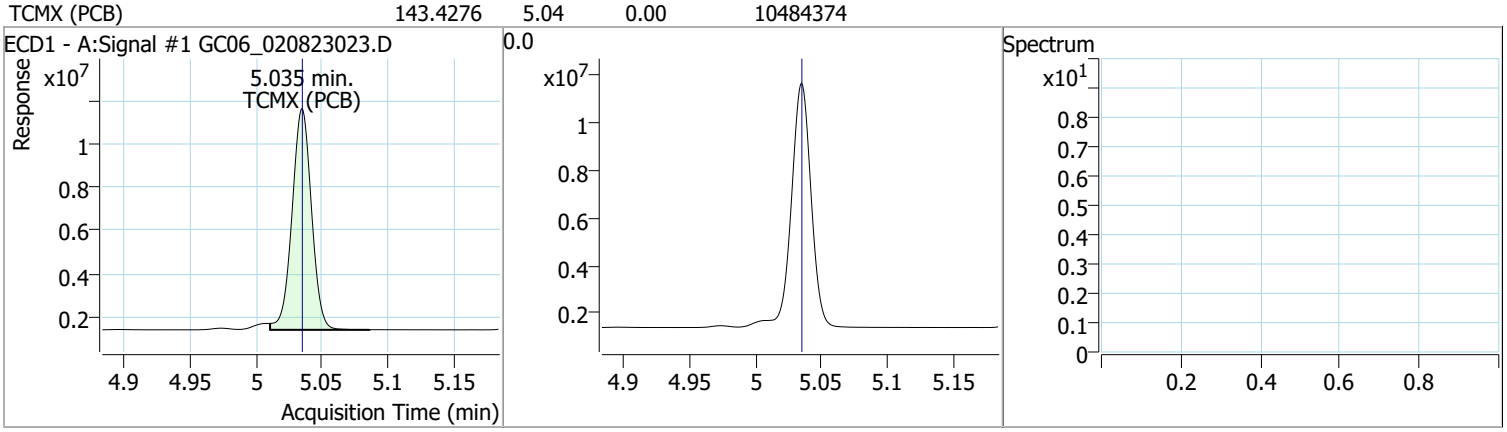


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.259	0.0	1389758.296	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.493	0.0	5776351.856	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.035	0.0	10484373.588	143.4276	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 717.14%		*	
S TCMX (PCB) #2	5.421	0.0	43534476.651	148.4182	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 742.09%		*	
S Decachlorobiphenyl (PCB)	12.033	0.0	14955837.617	141.0505	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 705.25%		*	
S Decachlorobiphenyl (PCB) #2	13.388	0.0	48763509.891	139.8349	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 699.17%		*	
Target Compounds							QValue

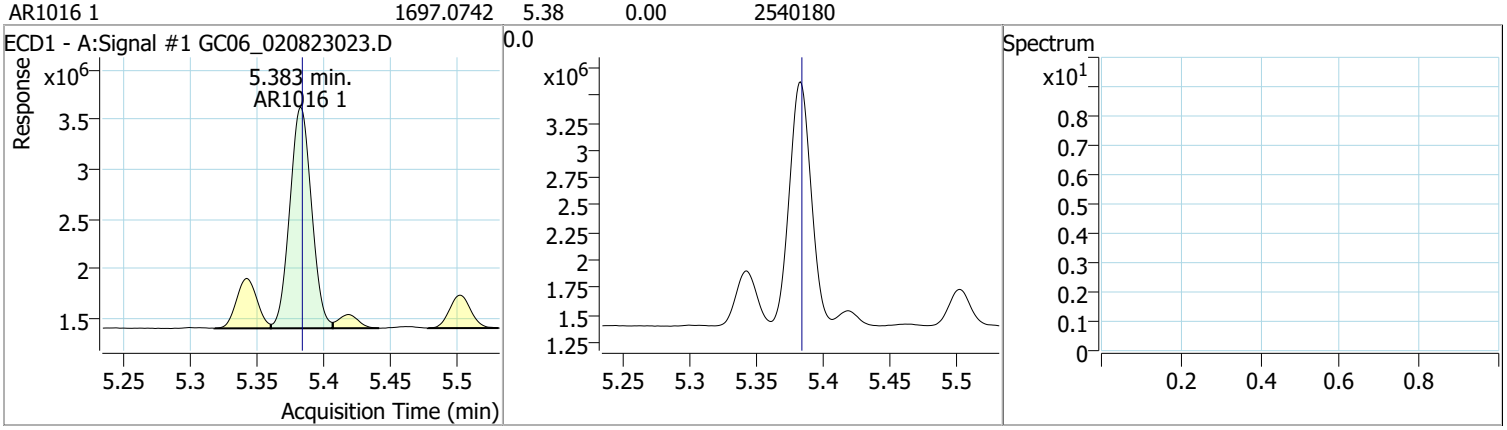
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.383	0.0	2540179.969	1697.0742	ng/ml	100
T AR1016 2	5.722	0.0	5389249.416	1994.1647	ng/ml	100
T AR1016 1 #2	5.911	0.0	10267972.240	1701.3995	ng/ml	100
T AR1016 3	6.191	0.0	6806379.934	1566.8203	ng/ml	100
T AR1016 4	6.333	0.0	5177181.019	1546.0108	ng/ml	100
T AR1016 2 #2	6.343	0.0	22450189.058	1591.6345	ng/ml	100
T AR1016 5	6.527	0.0	2957180.315	1811.2872	ng/ml	100
T AR1016 3 #2	6.909	0.0	29359242.894	1701.1324	ng/ml	100
T AR1016 4 #2	7.093	0.0	20856816.271	1694.7616	ng/ml	100
T AR1016 5 #2	7.804	0.0	17467862.173	1751.6449	ng/ml	100
T AR1260 1	8.714	0.0	8313660.705	1477.8206	ng/ml	100
T AR1260 2	9.204	0.0	12649715.324	1612.5234	ng/ml	100
T AR1260 3	9.638	0.0	13872389.617	1567.2210	ng/ml	100
T AR1260 1 #2	9.967	0.0	30341034.016	1664.3823	ng/ml	100
T AR1260 4	10.124	0.0	8227052.653	1762.2221	ng/ml	100
T AR1260 2 #2	10.229	0.0	36490717.943	1696.2428	ng/ml	100
T AR1260 3 #2	10.654	0.0	46617627.897	1662.1805	ng/ml	100
T AR1260 5	10.819	0.0	9842682.570	1851.8401	ng/ml	100
T AR1260 4 #2	11.067	0.0	27700093.187	1882.5097	ng/ml	100
T AR1260 5 #2	11.748	0.0	43551628.948	2013.2913	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

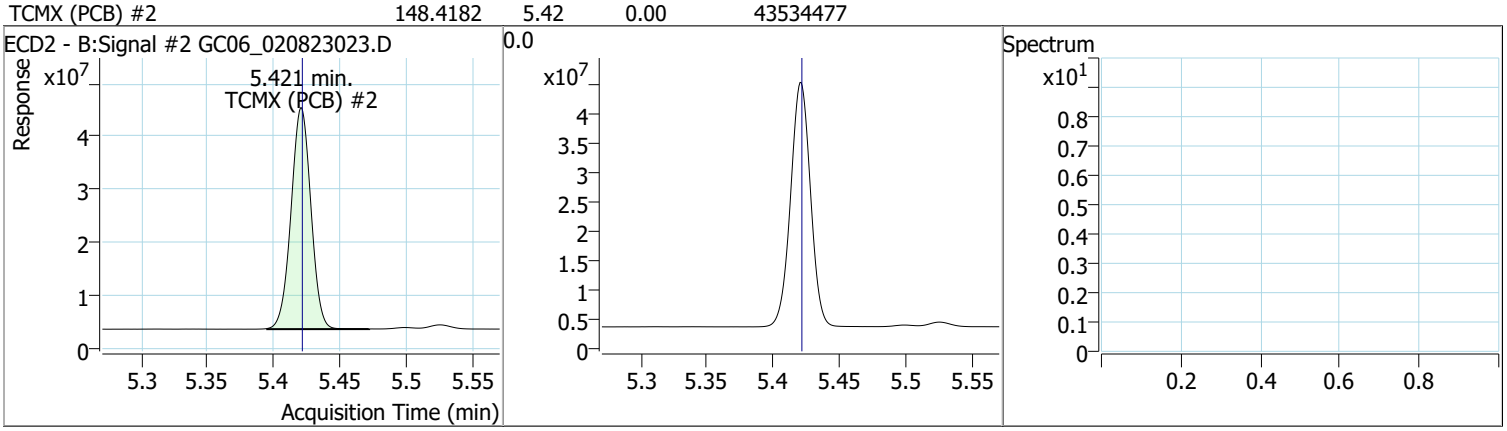
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	143.4276	5.04	0.00	10484374				



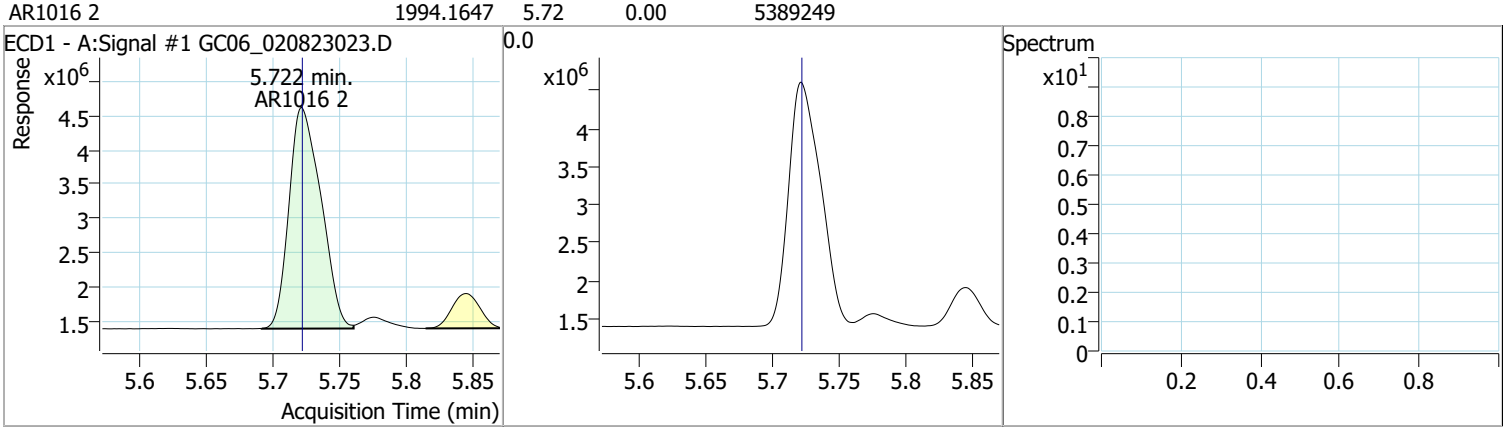
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	1697.0742	5.38	0.00	2540180				



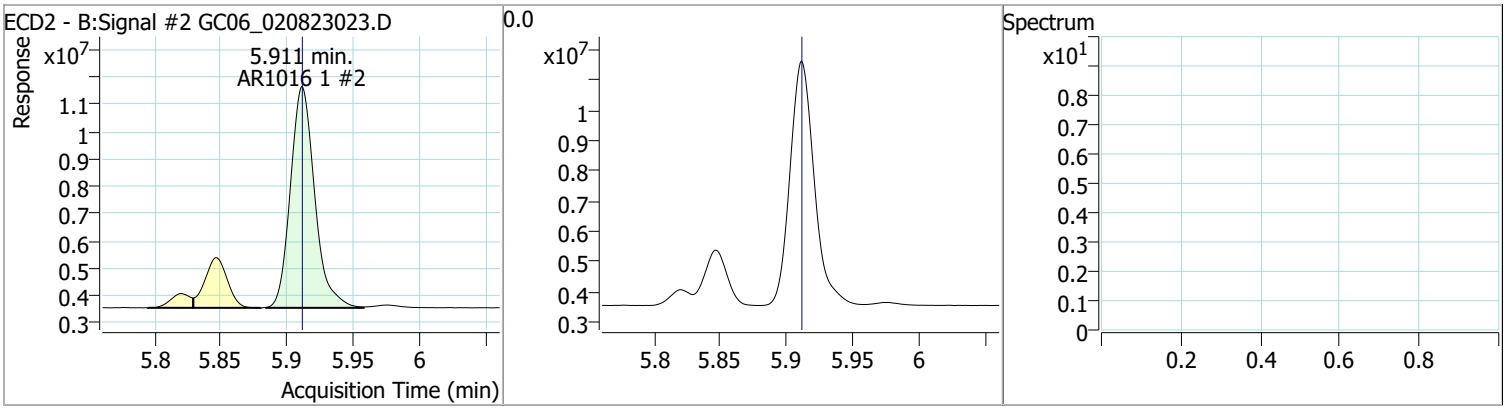
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	148.4182	5.42	0.00	43534477				



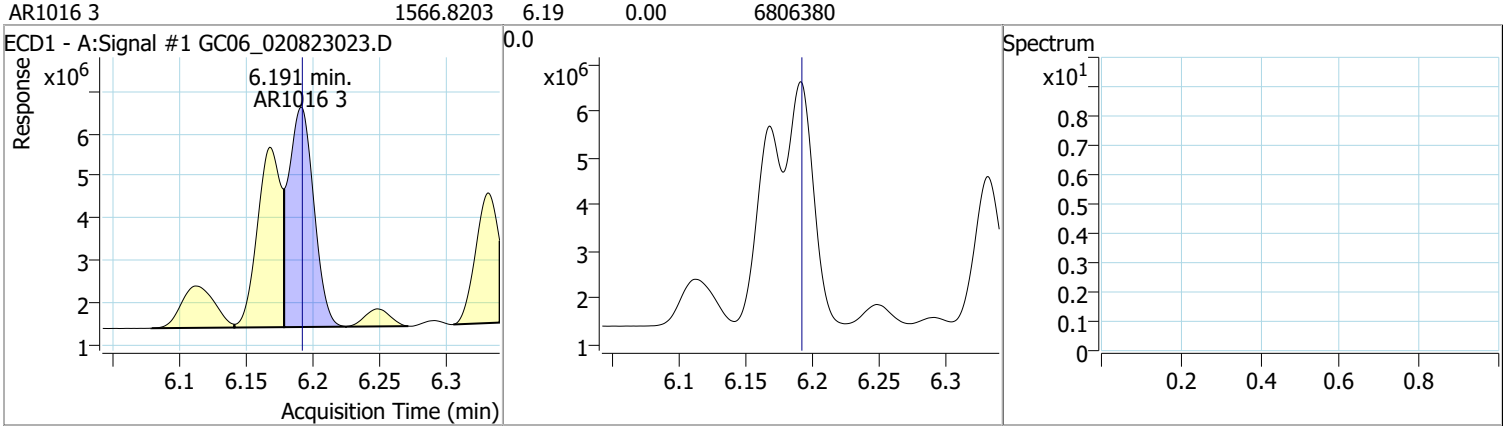
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	1994.1647	5.72	0.00	5389249				



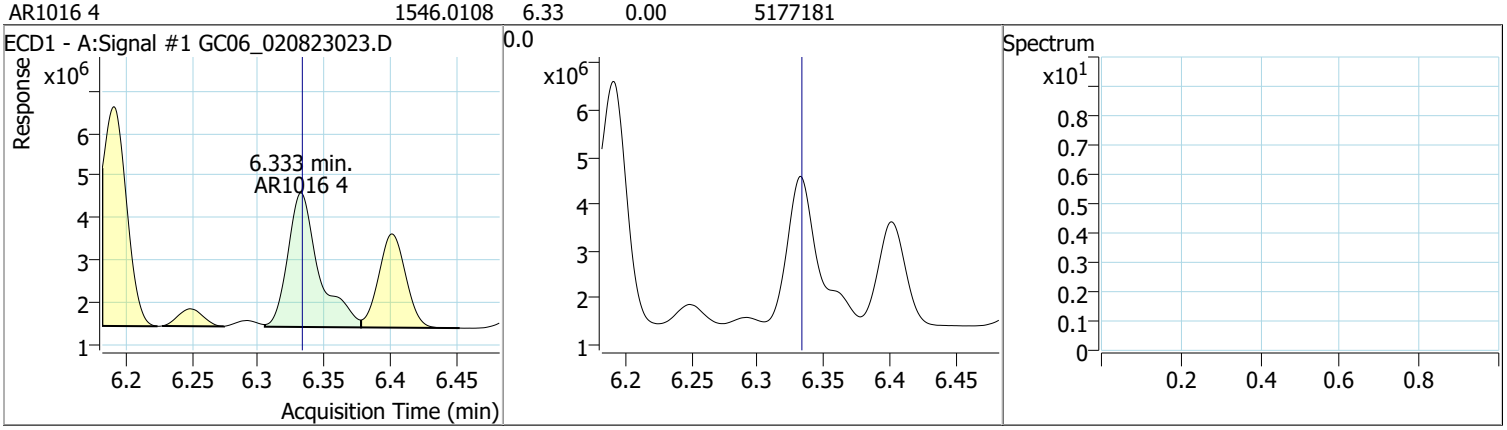
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1701.3995	5.91	0.00	10267972				



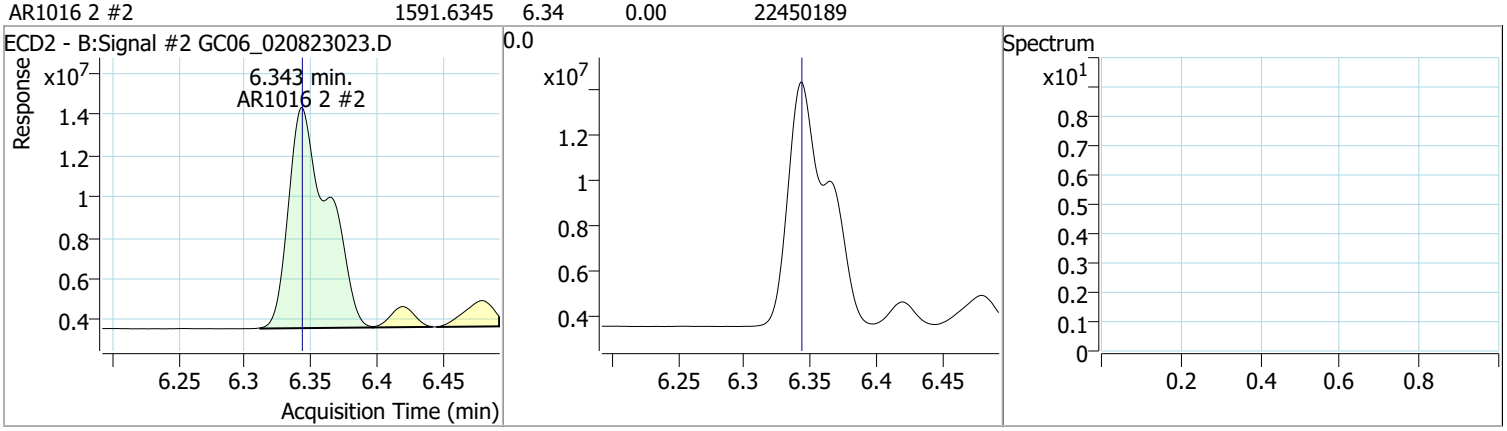
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	1566.8203	6.19	0.00	6806380				



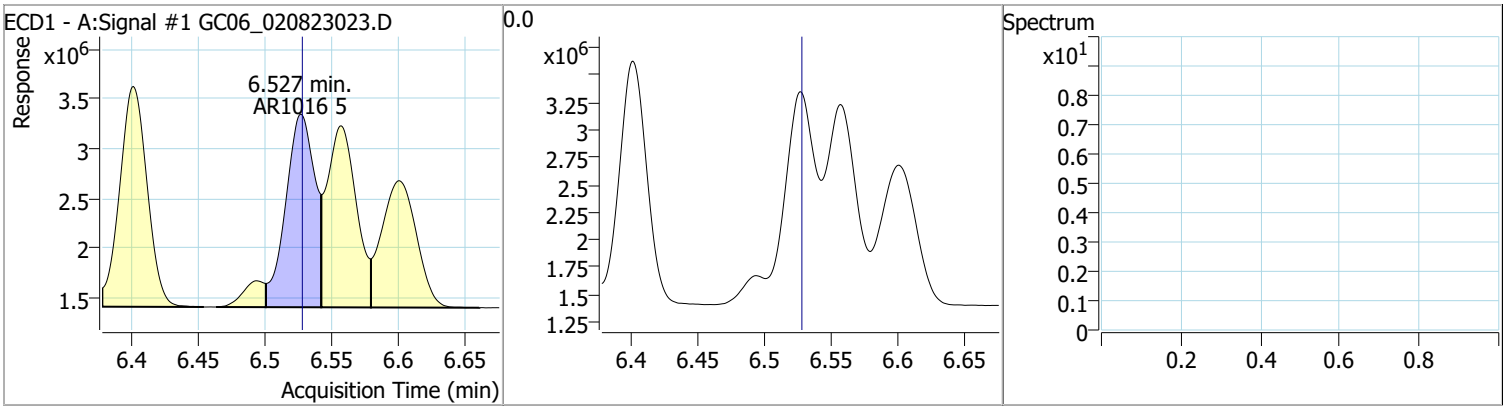
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1546.0108	6.33	0.00	5177181				



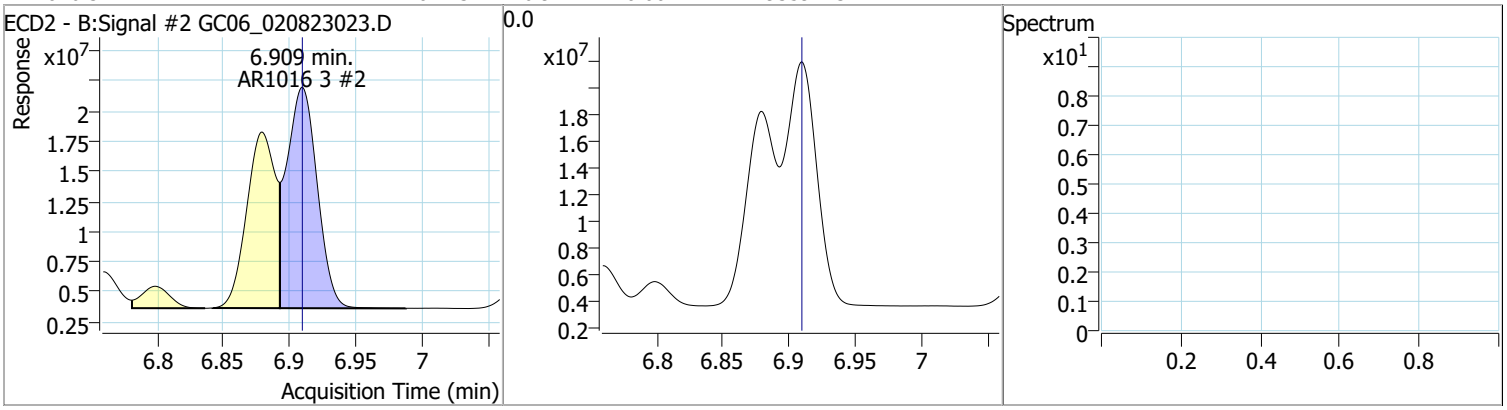
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	1591.6345	6.34	0.00	22450189				



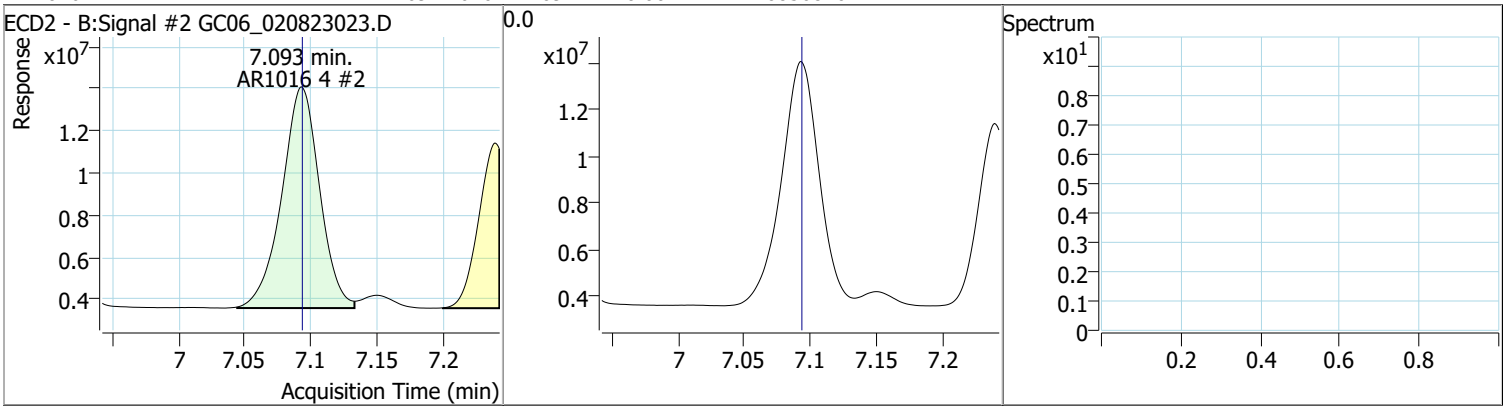
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	1811.2872	6.53	0.00	2957180				



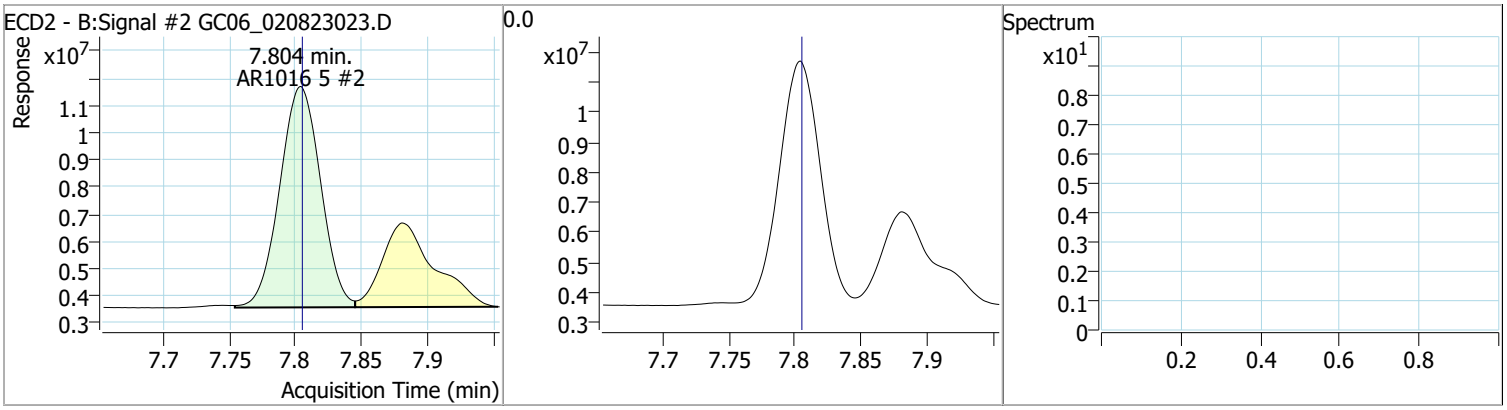
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	1701.1324	6.91	0.00	29359243				



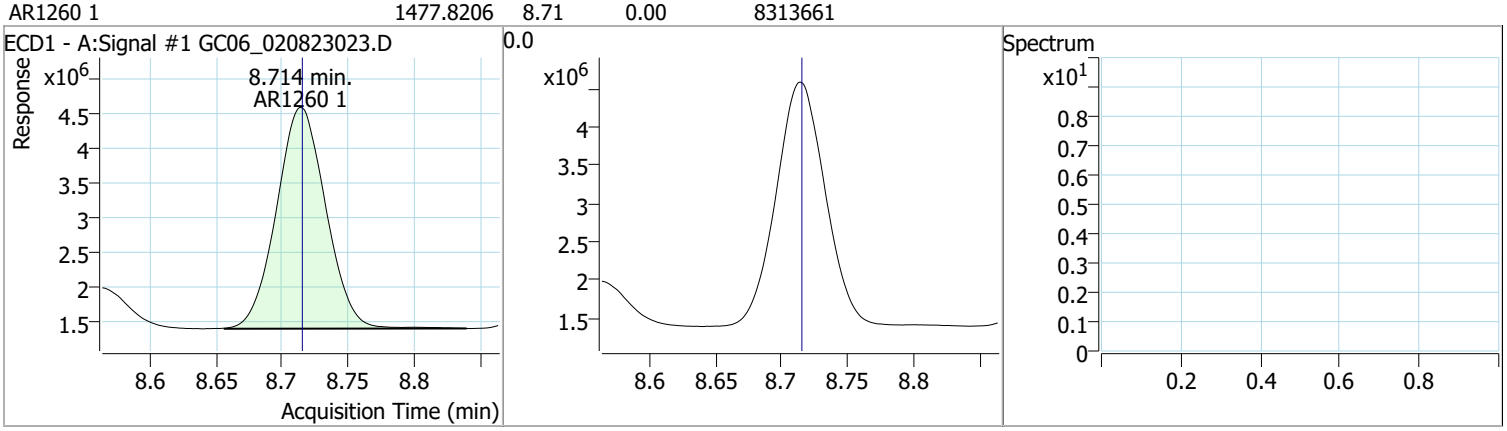
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	1694.7616	7.09	0.00	20856816				



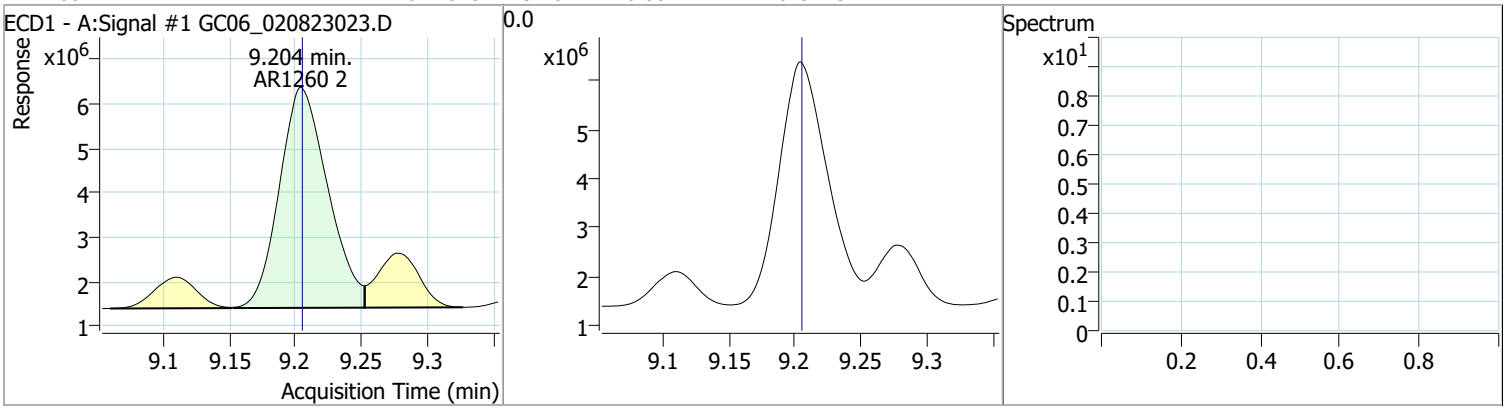
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	1751.6449	7.80	0.00	17467862				



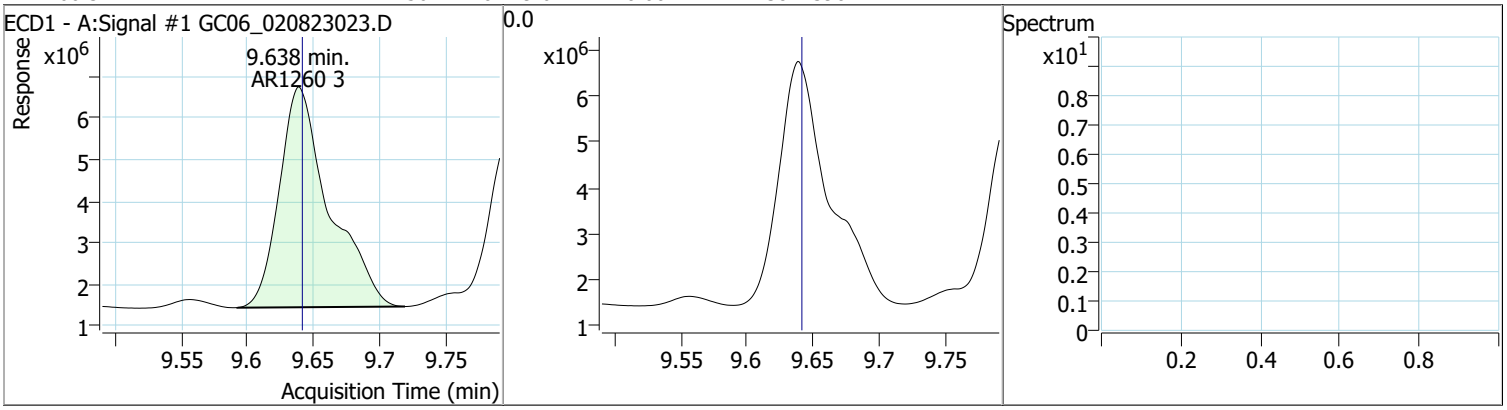
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1477.8206	8.71	0.00	8313661				



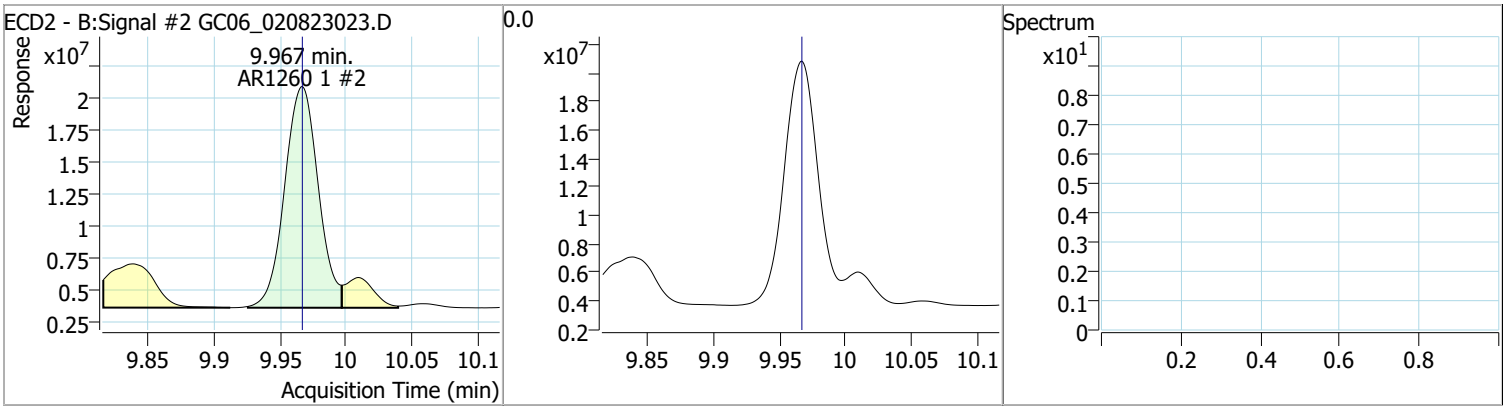
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1612.5234	9.20	0.00	12649715				



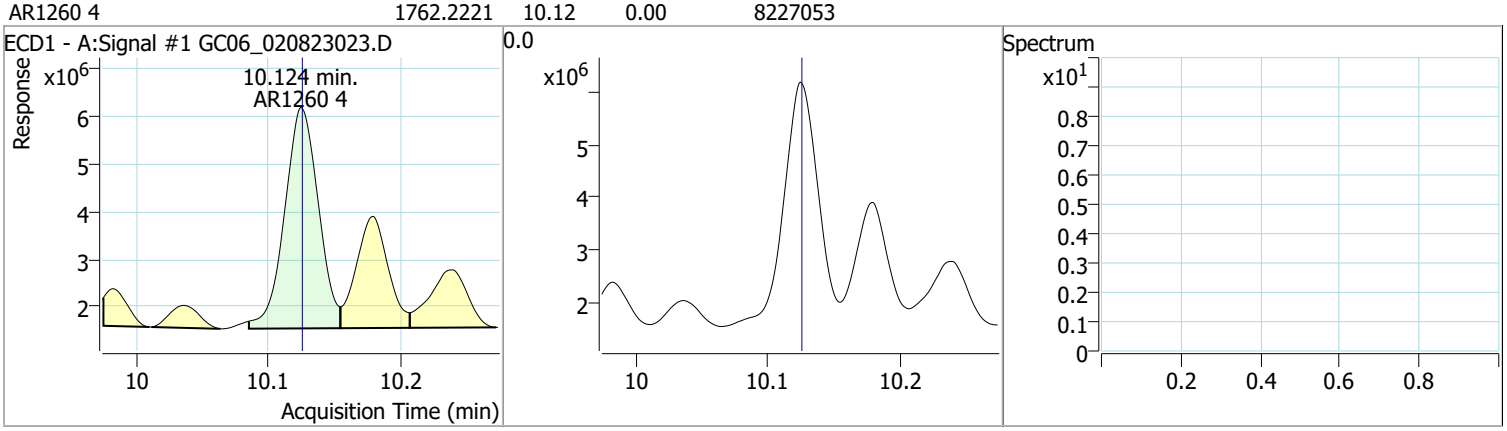
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	1567.2210	9.64	0.00	13872390				



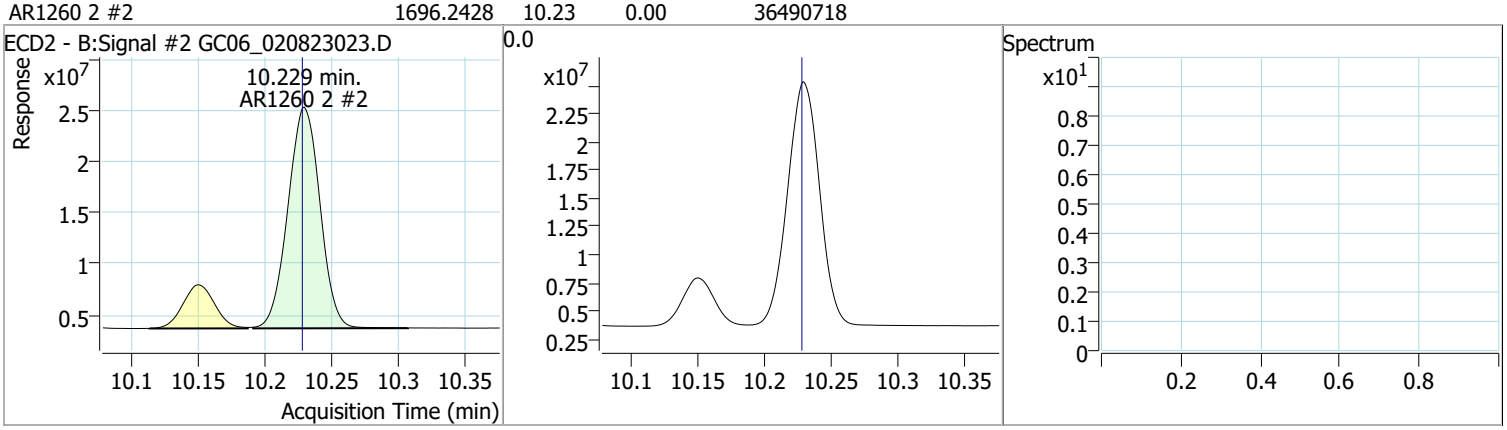
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	1664.3823	9.97	0.00	30341034				



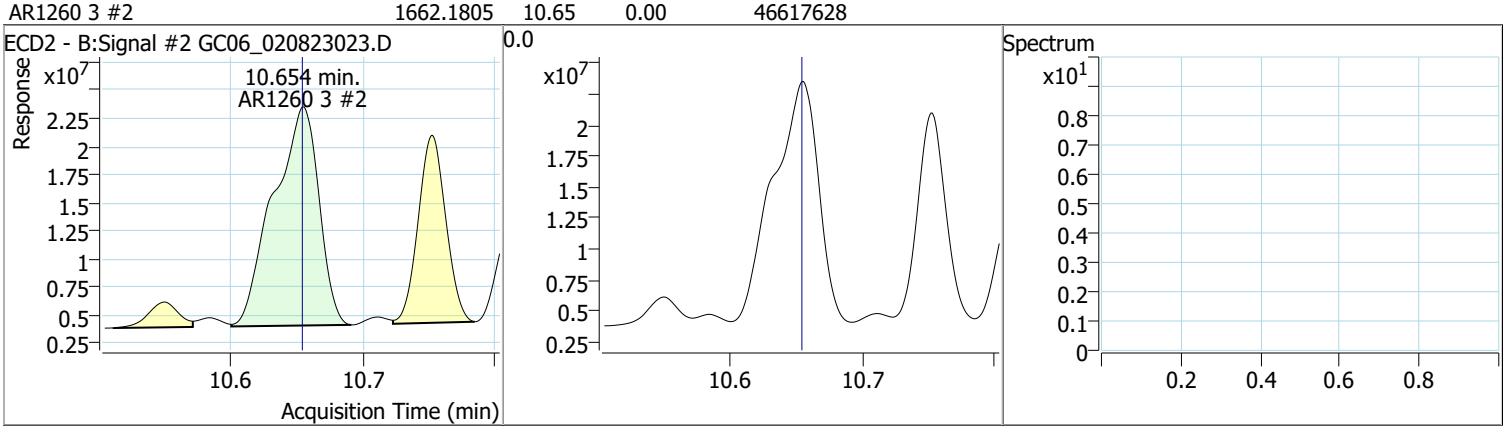
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	1762.2221	10.12	0.00	8227053				



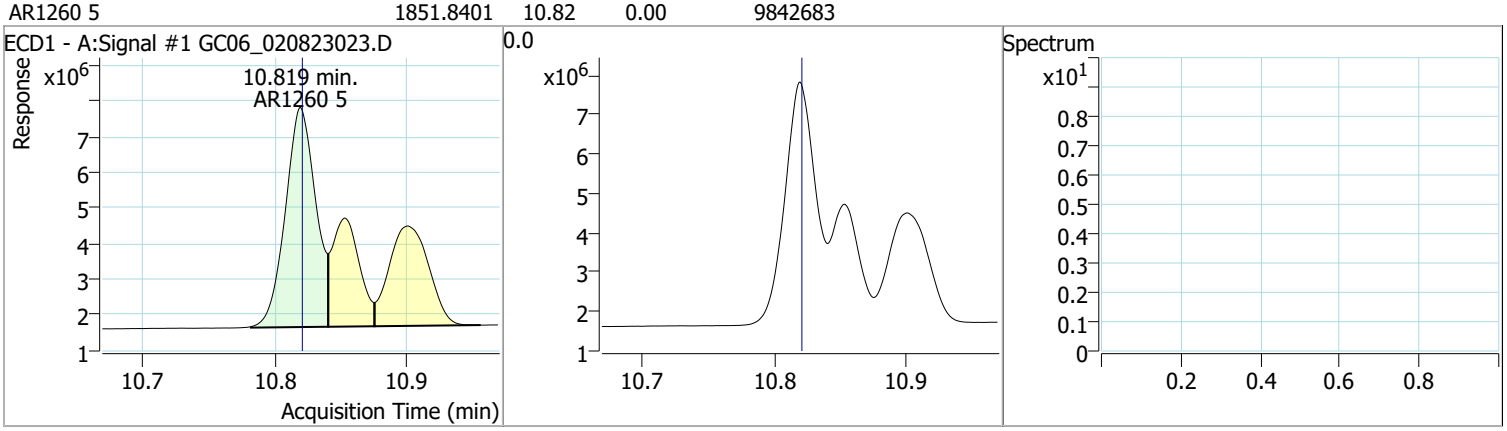
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	1696.2428	10.23	0.00	36490718				



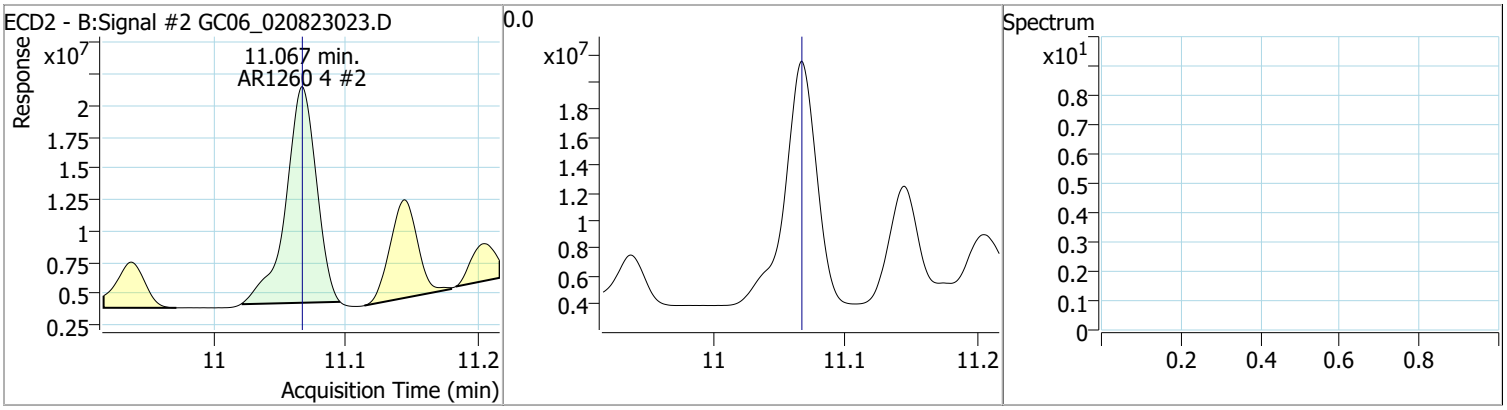
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	1662.1805	10.65	0.00	46617628				



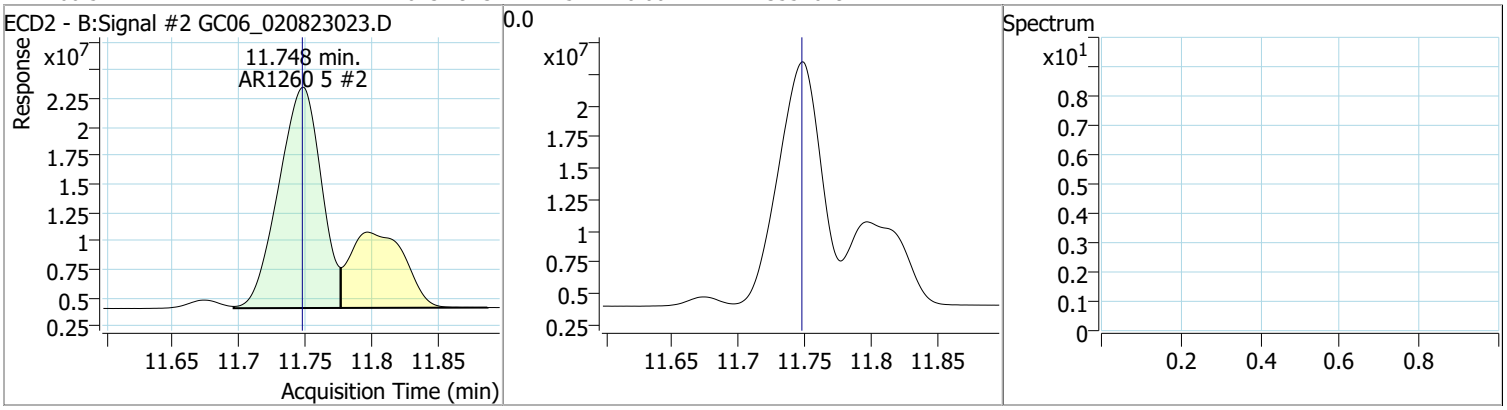
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	1851.8401	10.82	0.00	9842683				



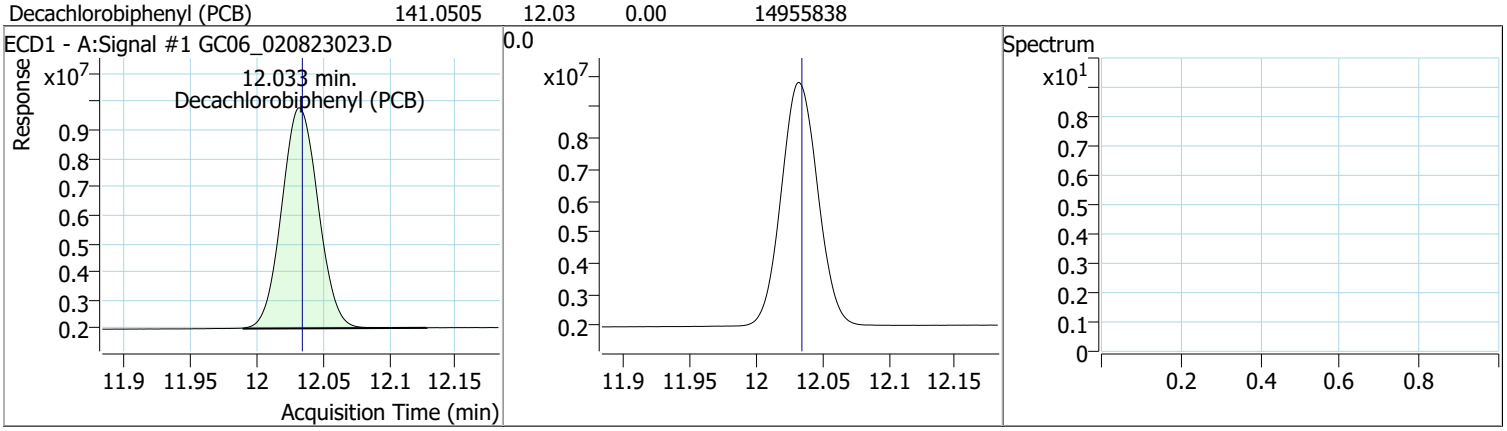
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	1882.5097	11.07	0.00	27700093				



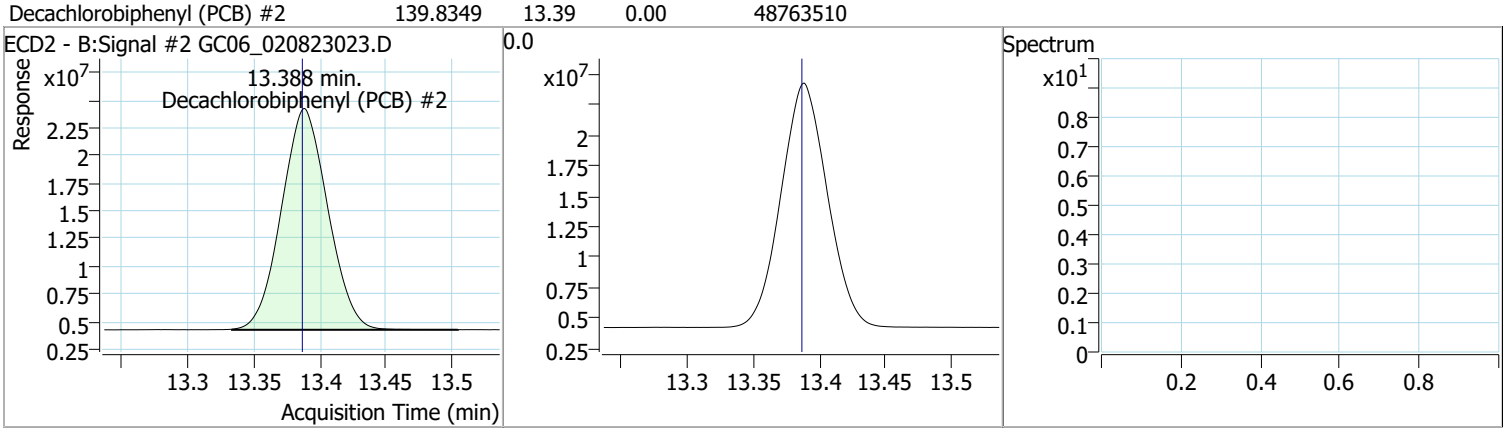
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	2013.2913	11.75	0.00	43551629				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	141.0505	12.03	0.00	14955838				

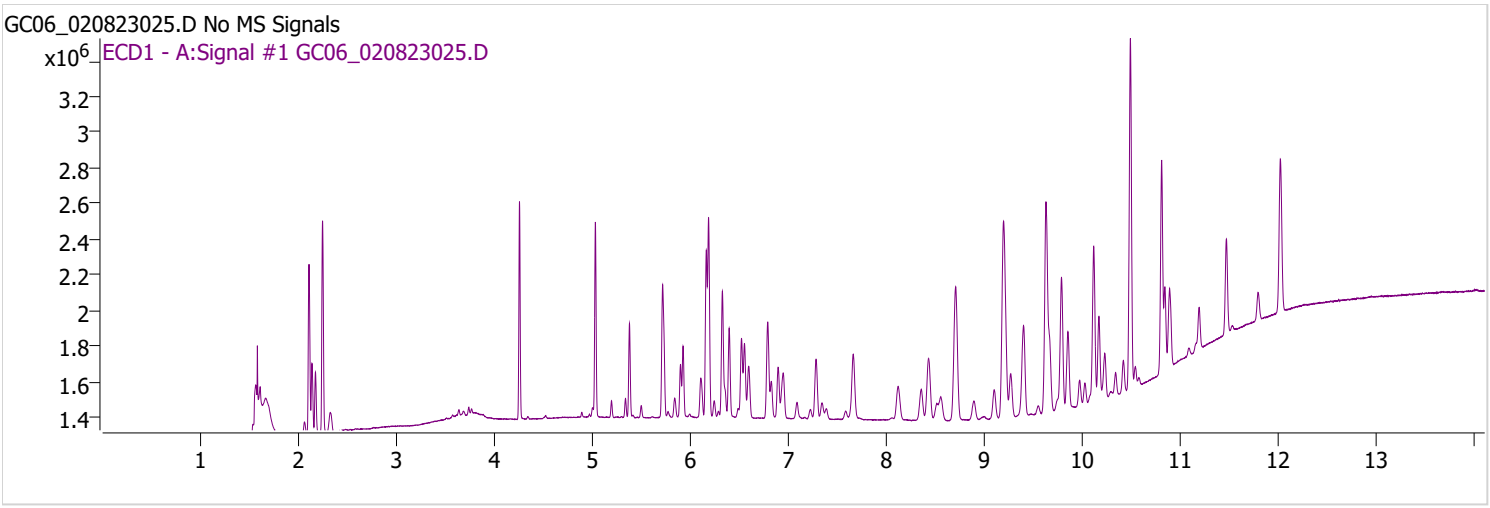


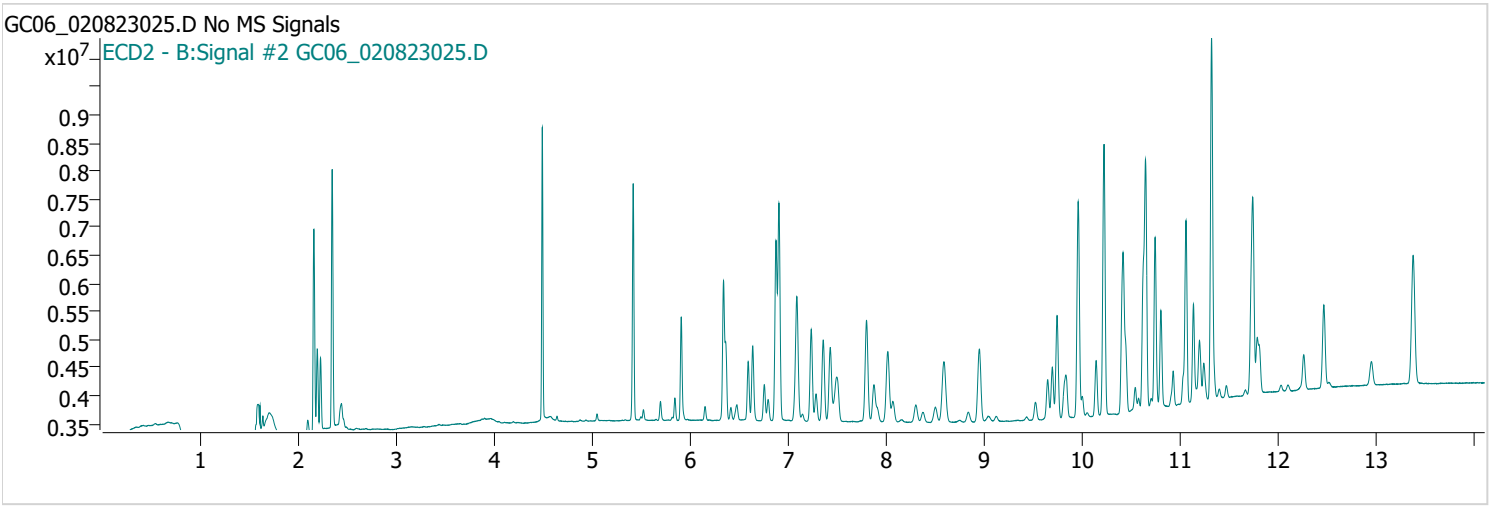
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	139.8349	13.39	0.00	48763510				



Quantitation Results Report (Not Reviewed)

Data File	GC06_020823025.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/8/2023 9:44:46 PM
Sample Name	ICV, 178906	Instrument	SVOA-GC06
Vial	20	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	020823PCBICAL.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
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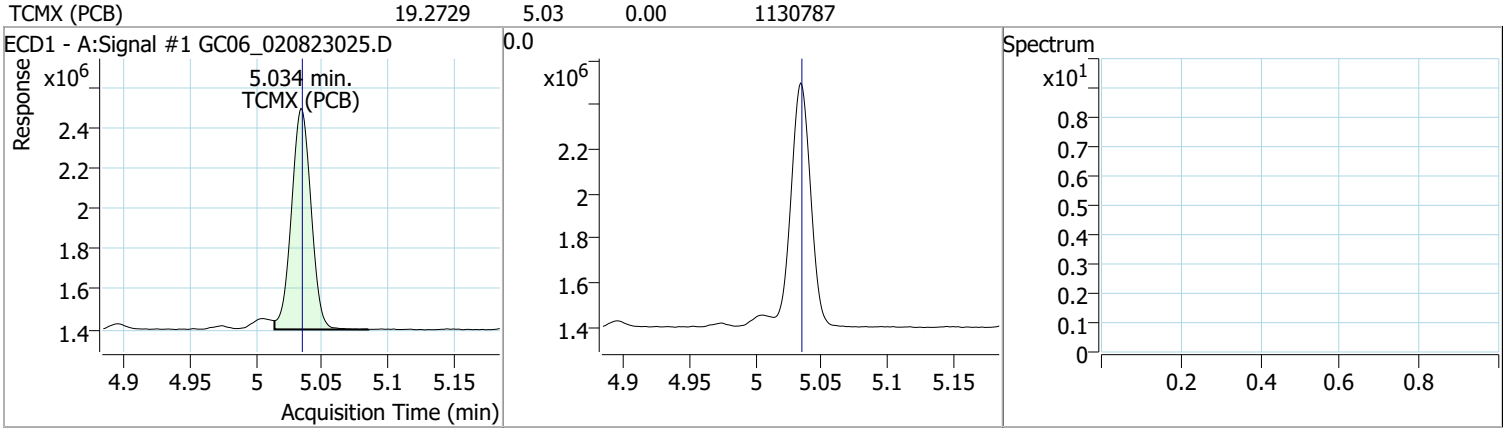


Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.259	0.0	1115481.099	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.493	0.0	4617042.563	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	5.034	0.0	1130786.836	19.2729	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 96.36%		
S TCMX (PCB) #2	5.421	0.0	4557129.732	19.4373	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 97.19%		
S Decachlorobiphenyl (PCB)	12.031	0.0	1633662.150	19.1957	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 95.98%		
S Decachlorobiphenyl (PCB) #2	13.388	0.0	5534320.037	19.8552	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 99.28%		
Target Compounds						QValue

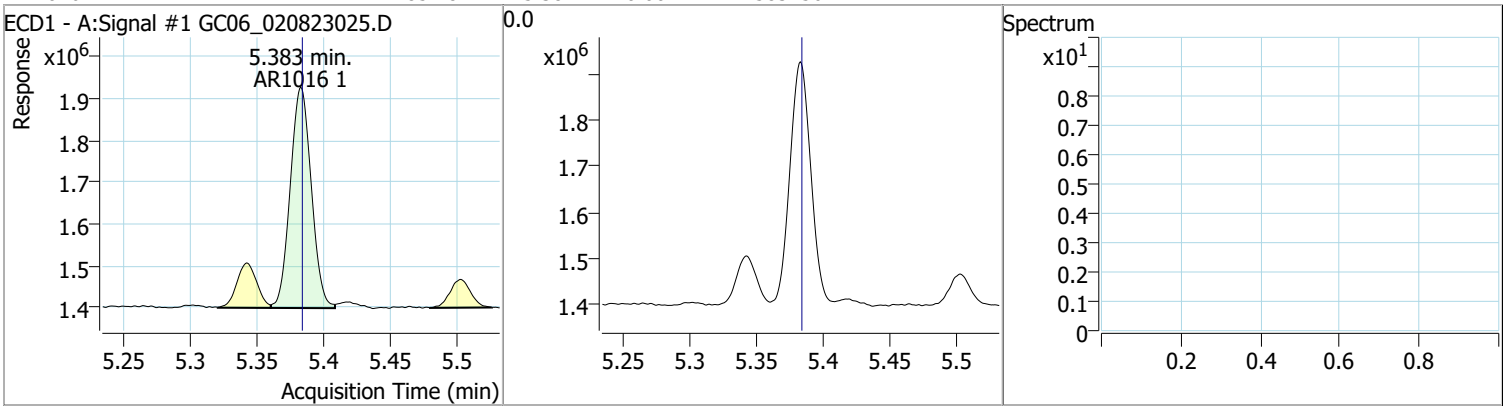
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.383	0.0	583256.005	485.4814	ng/ml		100
T AR1016 2	5.722	0.0	1258725.010	384.4776	ng/ml		100
T AR1016 1 #2	5.912	0.0	2308869.763	478.6420	ng/ml		100
T AR1016 3	6.190	0.0	1509426.953	432.9046	ng/ml		100
T AR1016 4	6.332	0.0	1165134.160	433.4831	ng/ml		100
T AR1016 2 #2	6.343	0.0	5042624.362	447.2700	ng/ml		100
T AR1016 5	6.527	0.0	658512.602	502.5169	ng/ml	m	100
T AR1016 3 #2	6.909	0.0	6110052.573	442.9227	ng/ml		100
T AR1016 4 #2	7.092	0.0	4491742.396	456.6308	ng/ml		100
T AR1016 5 #2	7.803	0.0	3631737.731	455.6281	ng/ml		100
T AR1260 1	8.715	0.0	1885296.983	417.5286	ng/ml		100
T AR1260 2	9.204	0.0	2883105.746	457.8918	ng/ml		100
T AR1260 3	9.637	0.0	3134211.659	441.1480	ng/ml		100
T AR1260 1 #2	9.966	0.0	6757059.773	463.7354	ng/ml		100
T AR1260 4	10.125	0.0	1546306.029	412.6567	ng/ml		100
T AR1260 2 #2	10.230	0.0	8082347.033	470.0379	ng/ml		100
T AR1260 3 #2	10.653	0.0	10353575.211	461.8576	ng/ml		100
T AR1260 5	10.818	0.0	1834432.378	430.0003	ng/ml		100
T AR1260 4 #2	11.068	0.0	5538051.463	470.8719	ng/ml		100
T AR1260 5 #2	11.748	0.0	7883235.857	383.5197	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

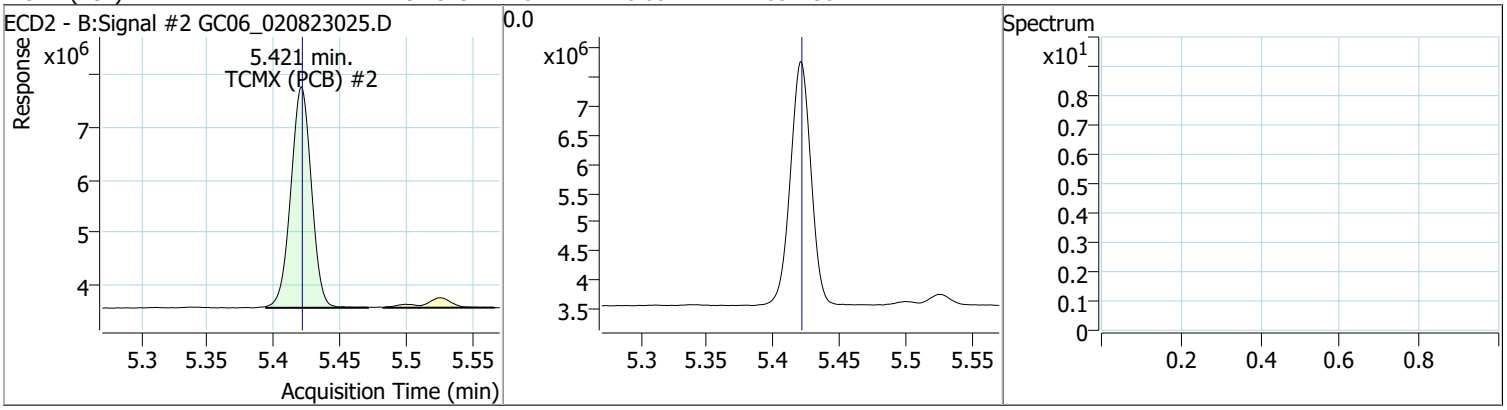
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	19.2729	5.03	0.00	1130787				



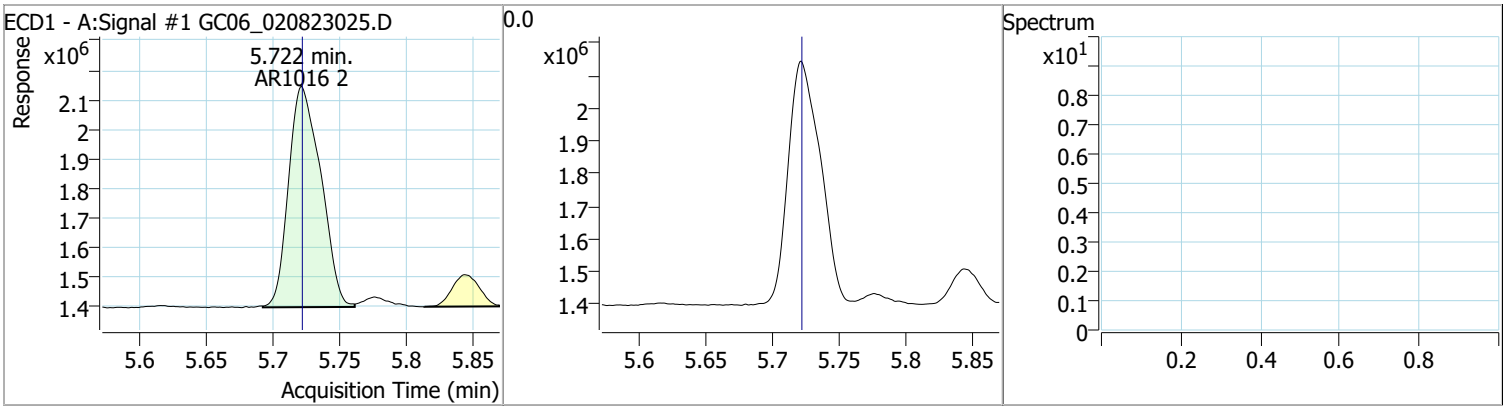
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	485.4814	5.38	0.00	583256				



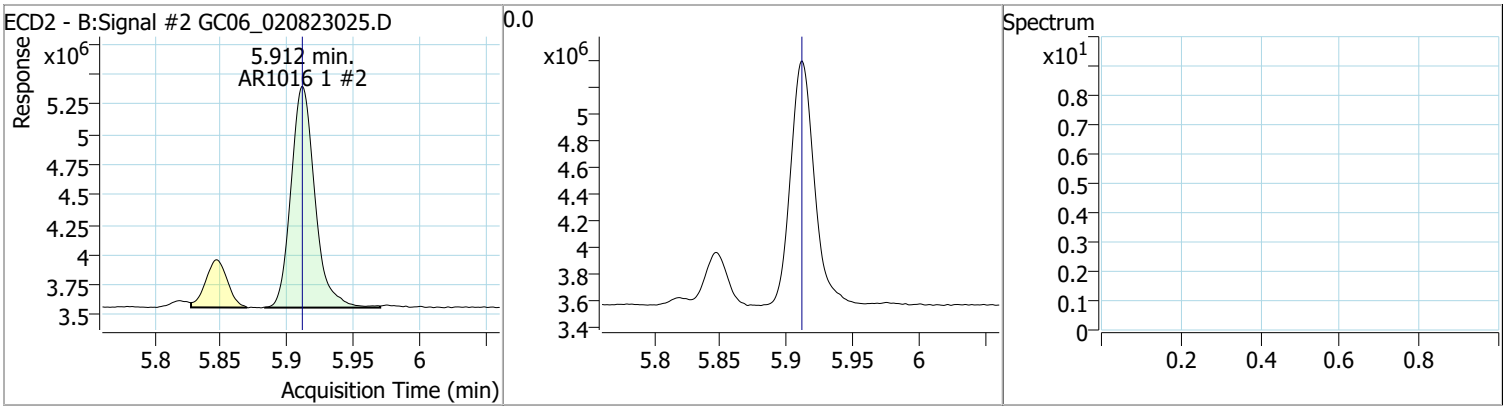
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	19.4373	5.42	0.00	4557130				



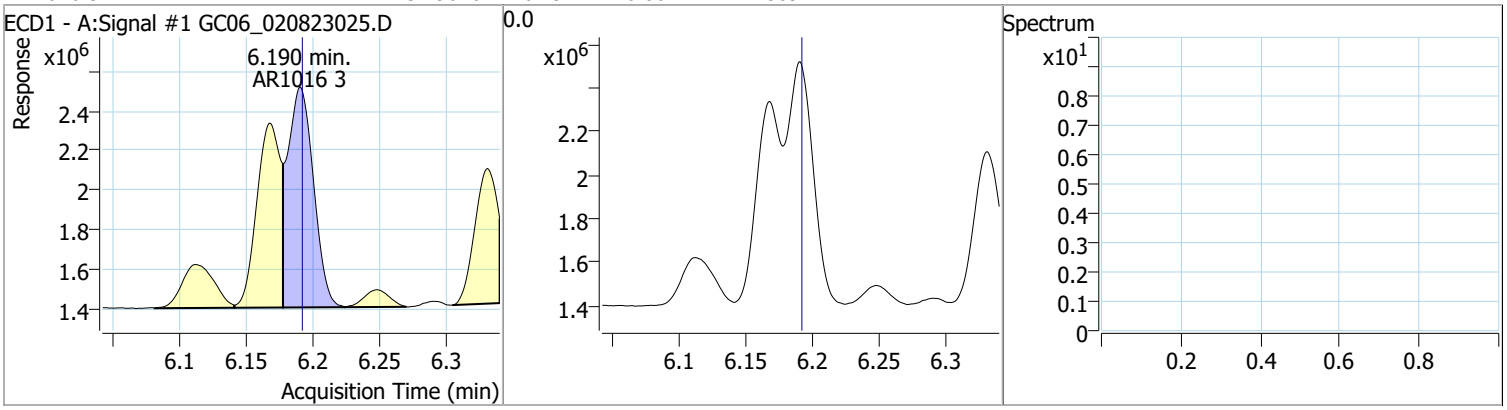
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	384.4776	5.72	0.00	1258725				



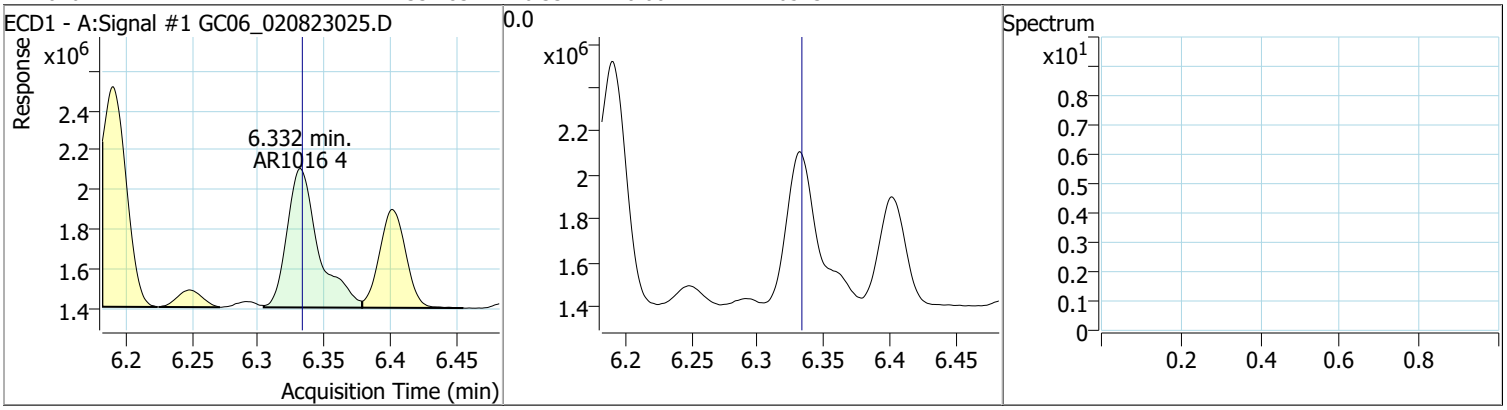
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	478.6420	5.91	0.00	2308870				



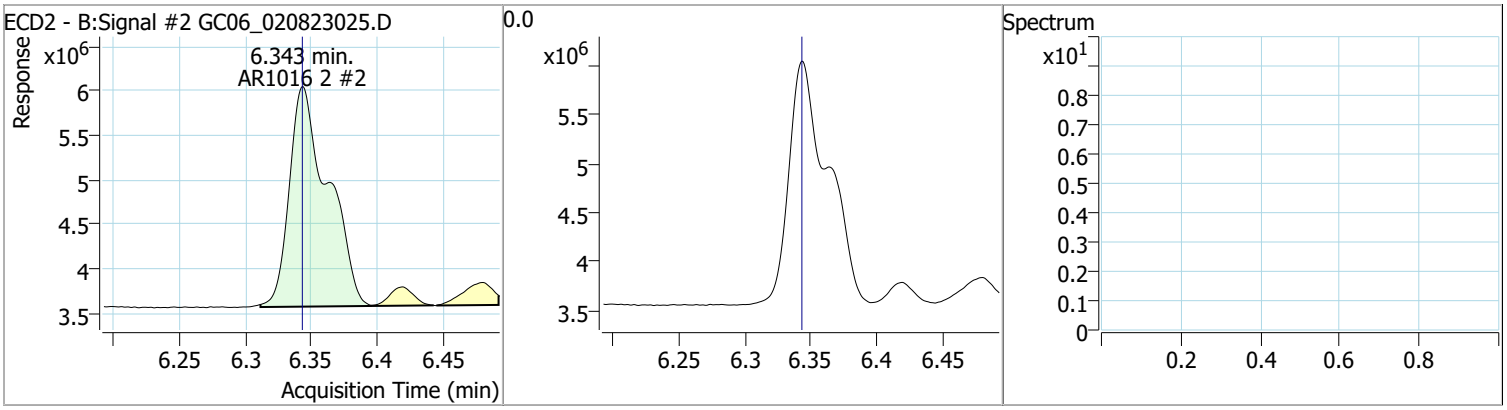
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	432.9046	6.19	0.00	1509427				



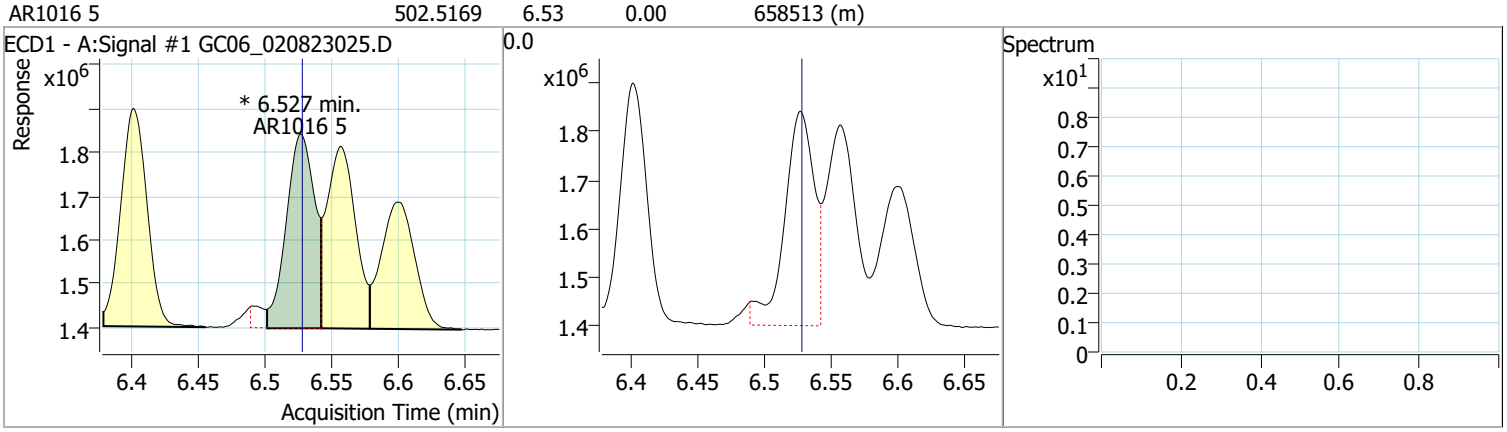
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	433.4831	6.33	0.00	1165134				



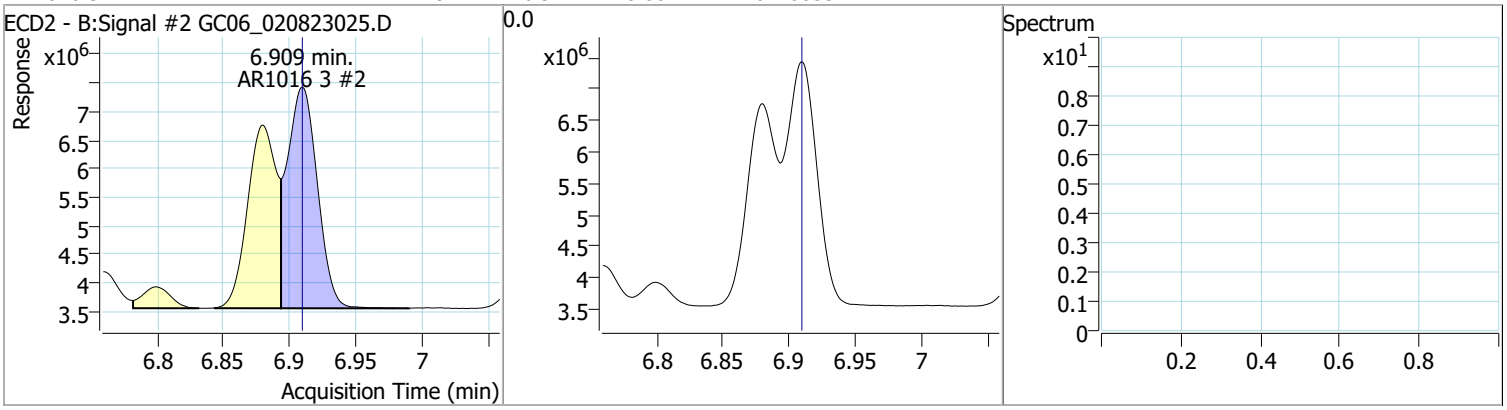
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	447.2700	6.34	0.00	5042624				



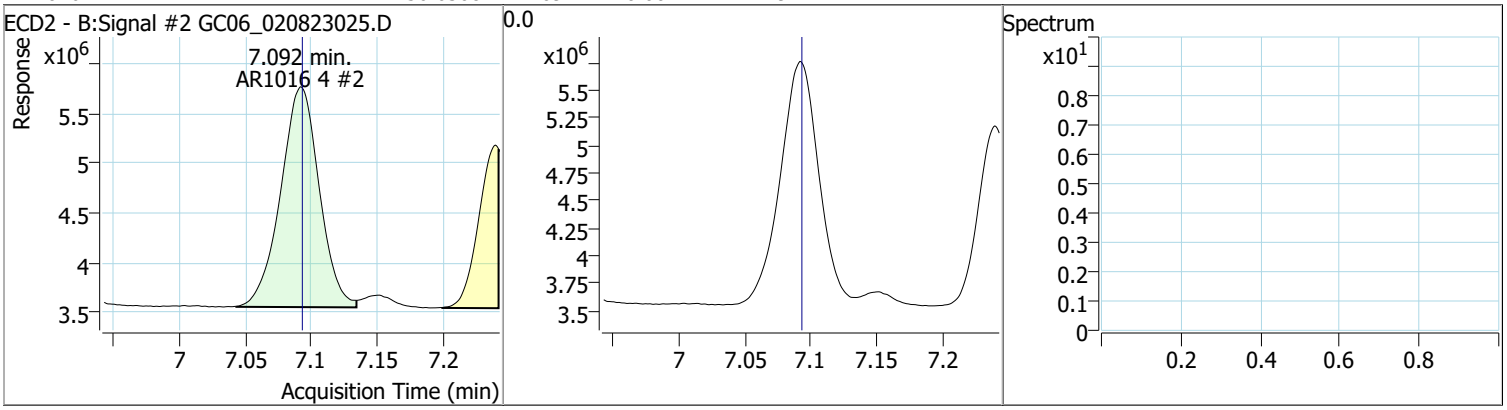
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	502.5169	6.53	0.00	658513 (m)				



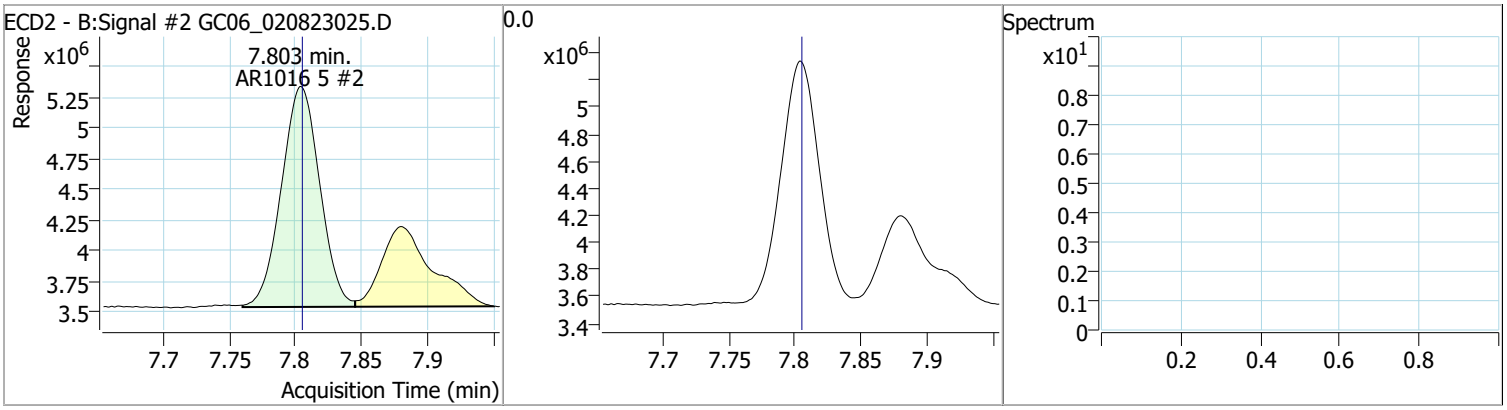
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	442.9227	6.91	0.00	6110053				



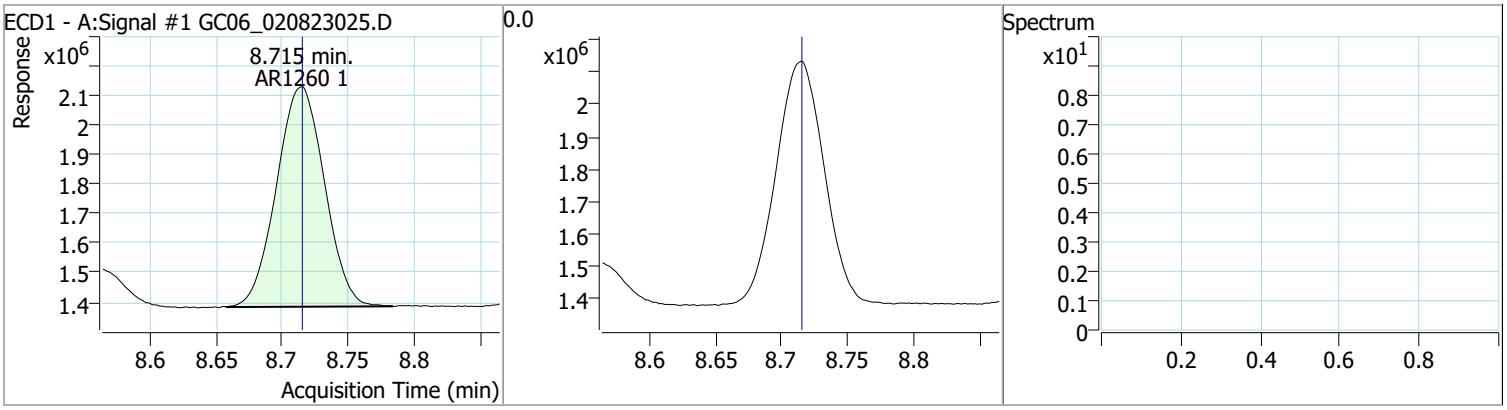
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	456.6308	7.09	0.00	4491742				



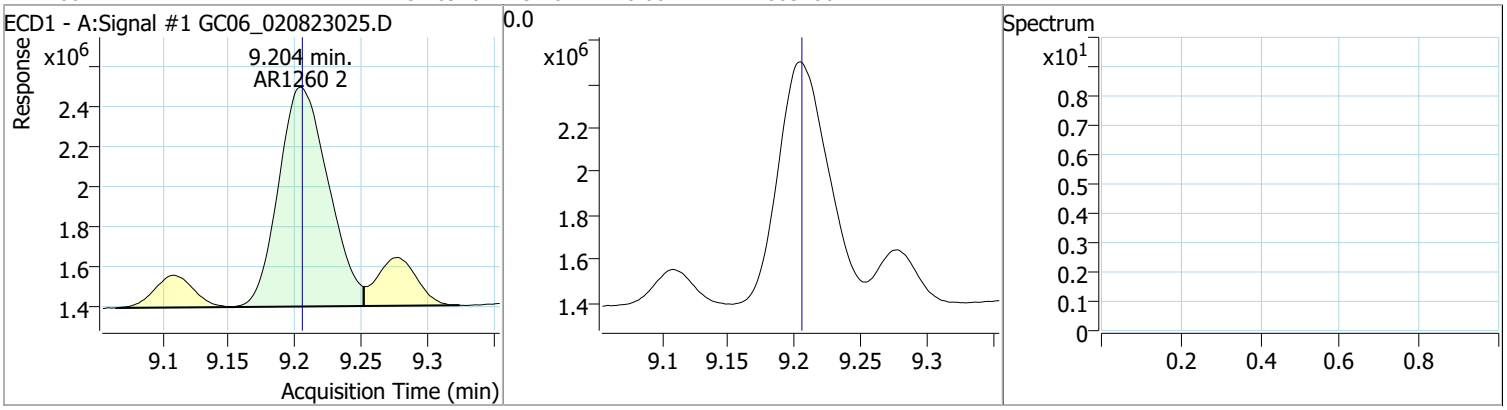
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	455.6281	7.80	0.00	3631738				



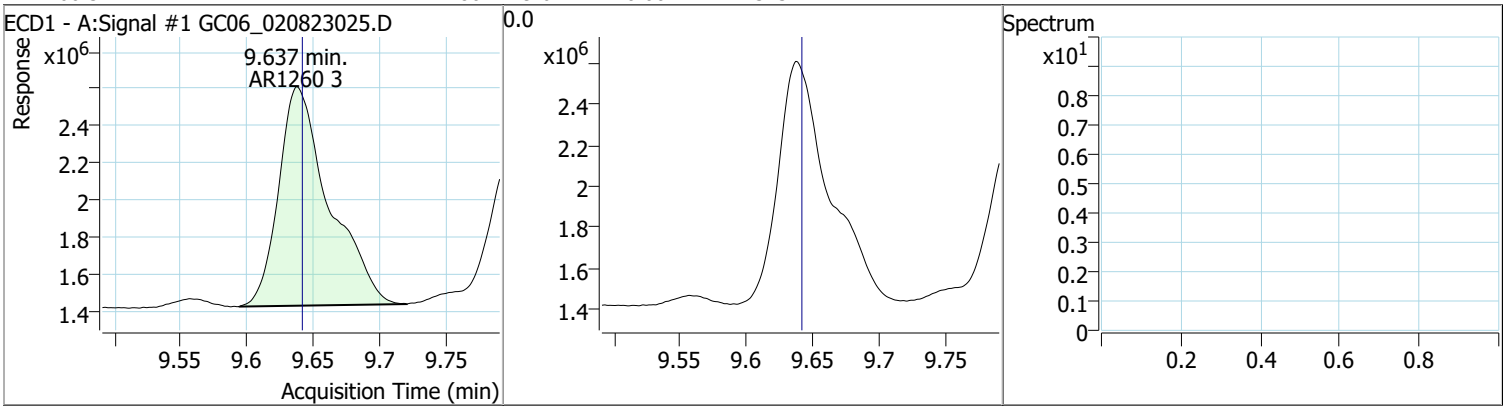
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	417.5286	8.72	0.00	1885297				



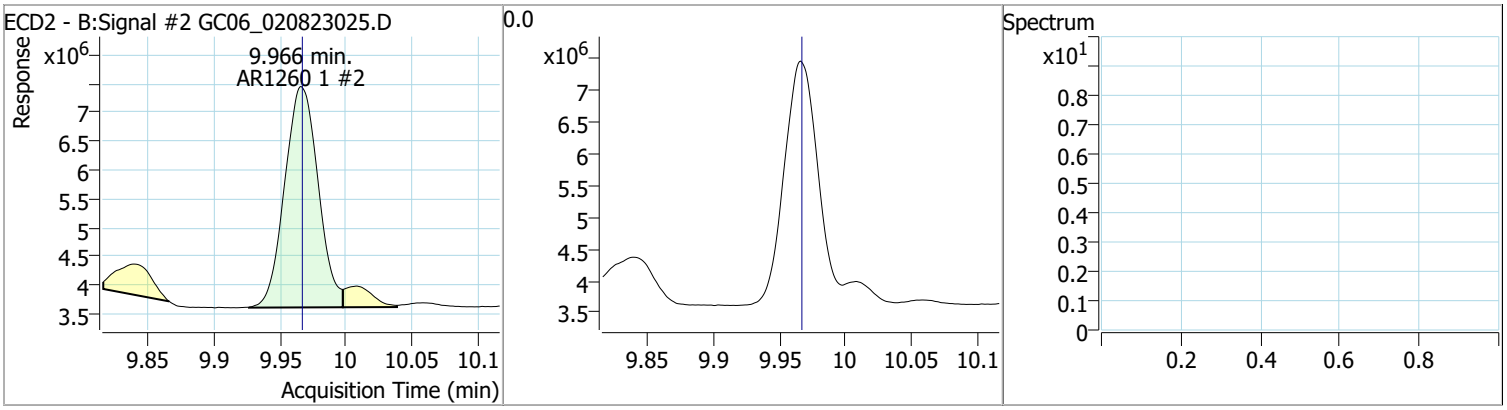
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	457.8918	9.20	0.00	2883106				



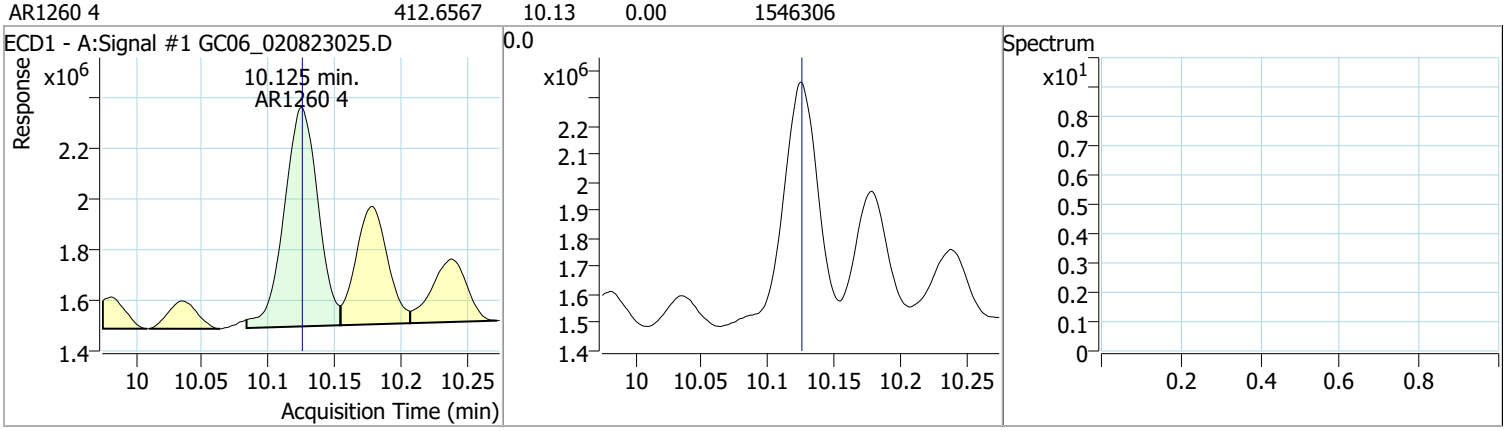
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	441.1480	9.64	0.00	3134212				



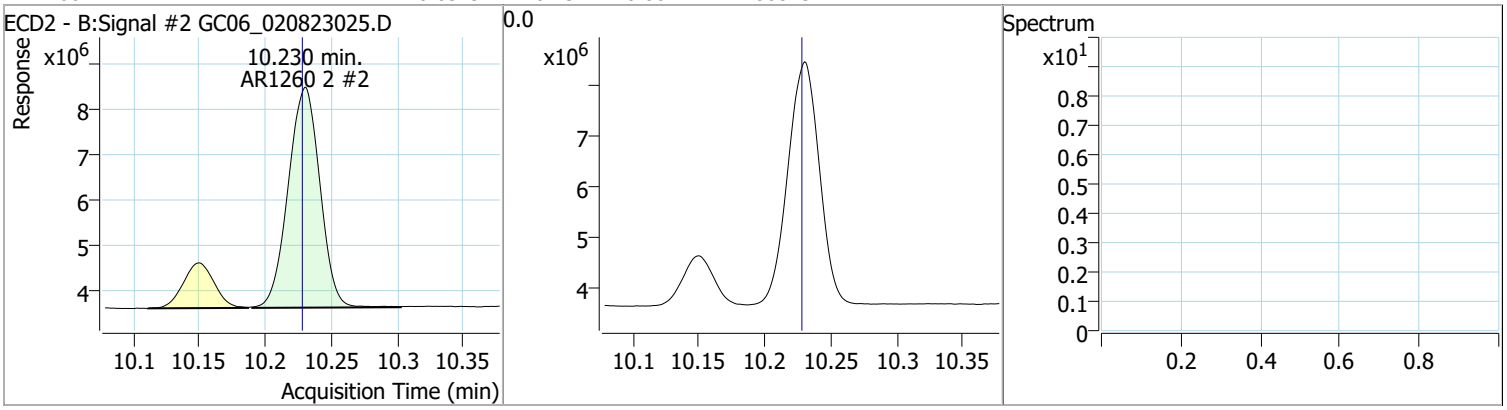
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	463.7354	9.97	0.00	6757060				



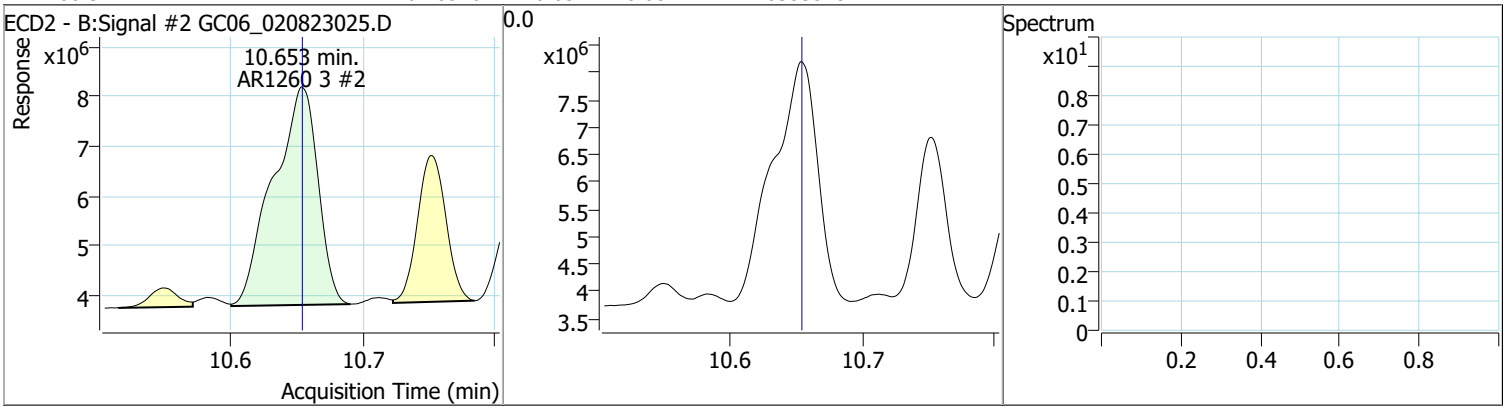
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	412.6567	10.13	0.00	1546306				



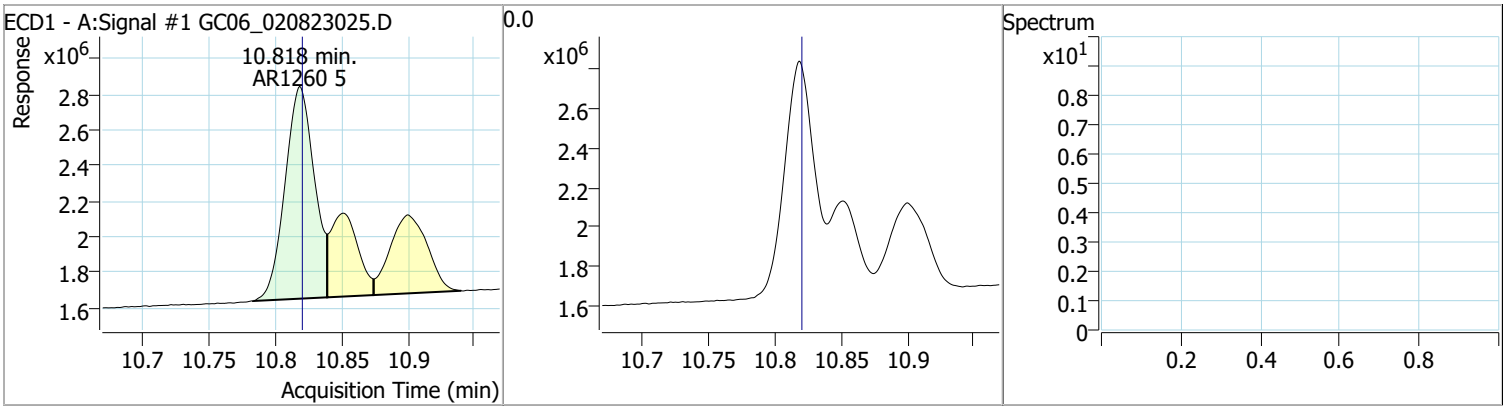
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	470.0379	10.23	0.00	8082347				



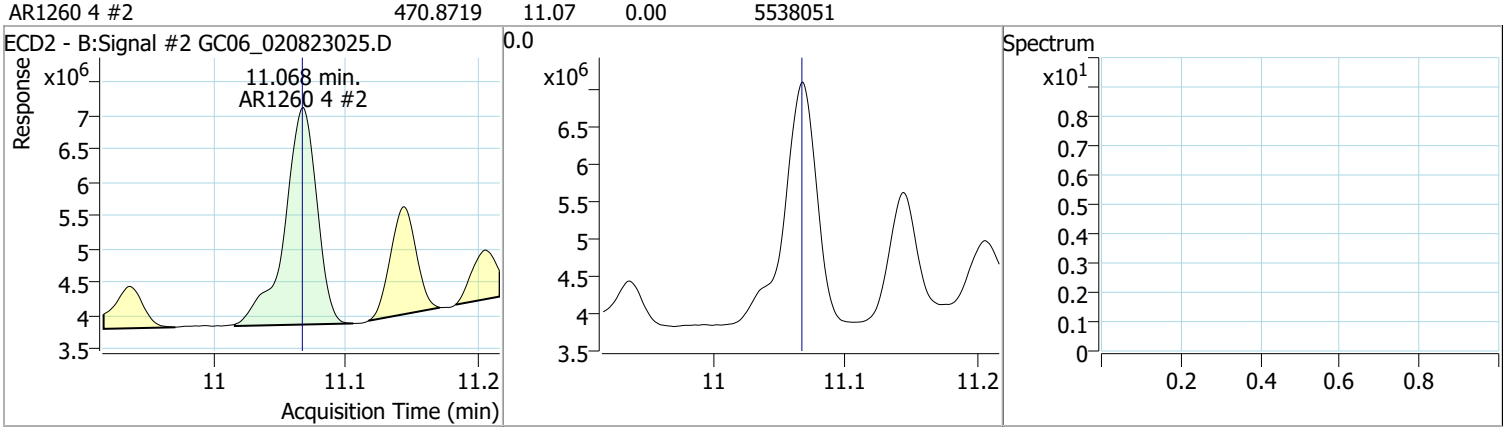
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	461.8576	10.65	0.00	10353575				



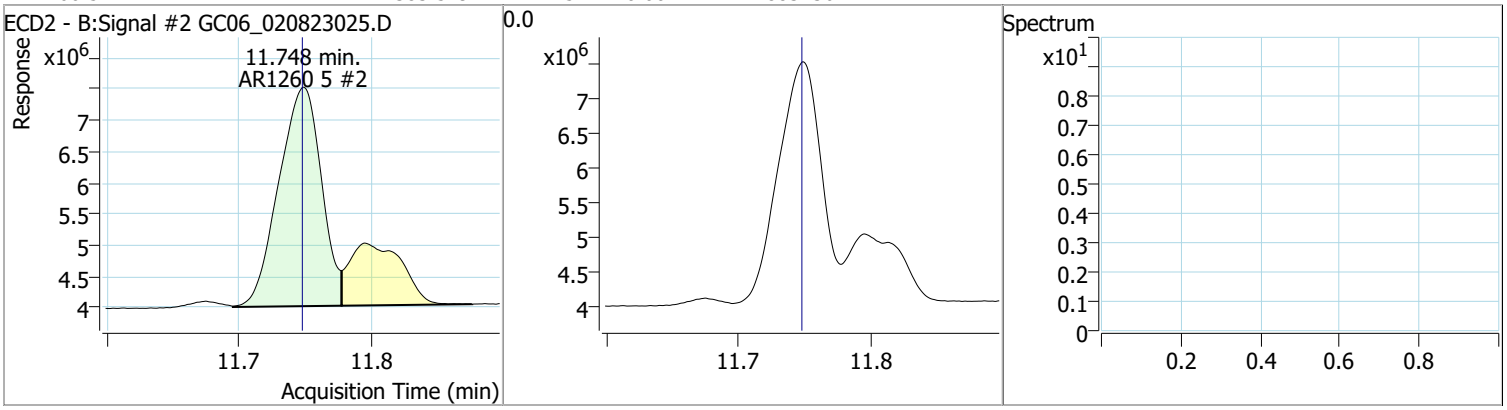
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	430.0003	10.82	0.00	1834432				



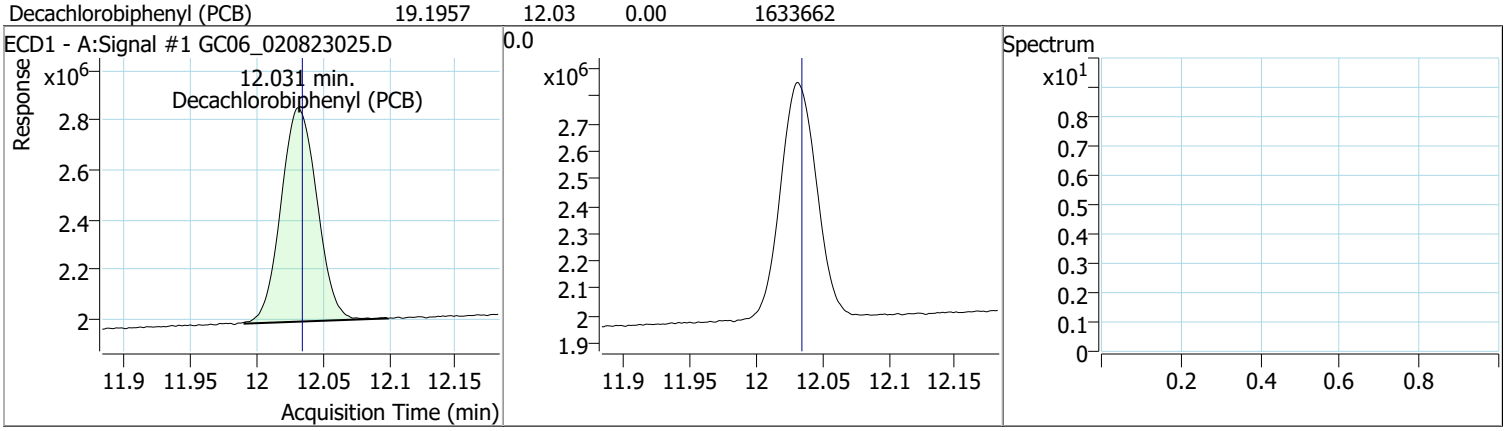
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	470.8719	11.07	0.00	5538051				



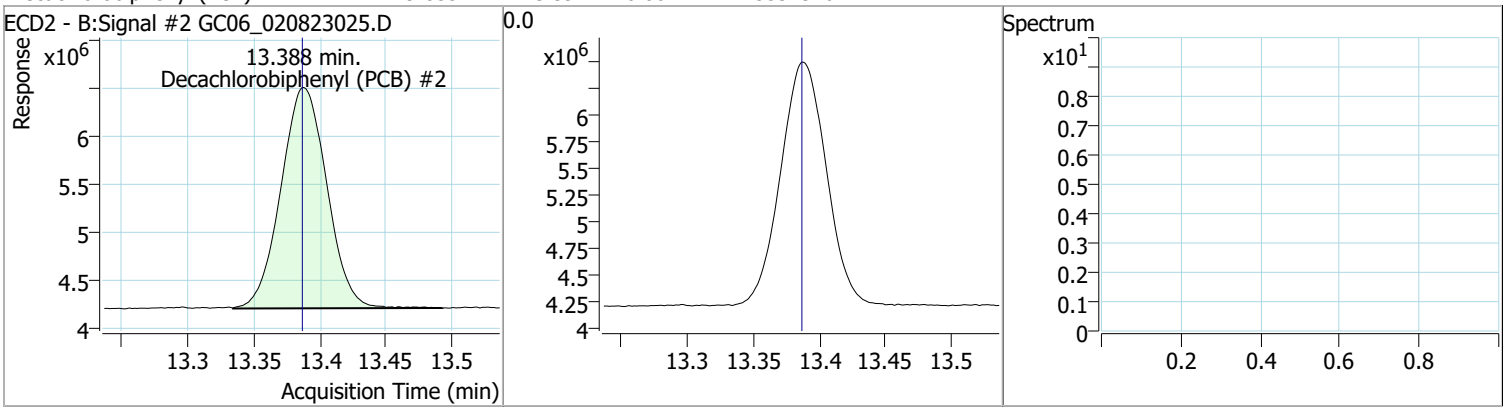
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	383.5197	11.75	0.00	7883236				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	19.1957	12.03	0.00	1633662				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	19.8552	13.39	0.00	5534320				



ENTHALPY INITIAL CALIBRATION FOR 479661 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_021723_1268
Calibration #:	453069687001	Date:	17-FEB-2023 12:07
Units:	ug/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_021723011	453069687011		17-FEB-2023 12:07	S17815

Analyte	Ch	L1 RF	Type	a0	a1	a2	Avg RF	%RSD	Min r^2	Max %RSD	Flags
Aroclor-1268 Peak # 1	A	0.0319	AVRG		31.3506		0.0319	0	.99	20	
Aroclor-1268 Peak # 2	A	0.0409	AVRG		24.4215		0.0409	0	.99	20	
Aroclor-1268 Peak # 3	A	0.1748	AVRG		5.72081		0.1748	0	.99	20	
Aroclor-1268 Peak # 4	A	0.1391	AVRG		7.18985		0.1391	0	.99	20	
Aroclor-1268 Peak # 5	A	0.4782	AVRG		2.09121		0.4782	0	.99	20	
Aroclor-1268 Peak # 1	B	0.0256	AVRG		39.1366		0.0256	0	.99	20	
Aroclor-1268 Peak # 2	B	0.0320	AVRG		31.2293		0.0320	0	.99	20	
Aroclor-1268 Peak # 3	B	0.1289	AVRG		7.75776		0.1289	0	.99	20	
Aroclor-1268 Peak # 4	B	0.1027	AVRG		9.73695		0.1027	0	.99	20	
Aroclor-1268 Peak # 5	B	0.3389	AVRG		2.95095		0.3389	0	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)
AVRG: Average response factor

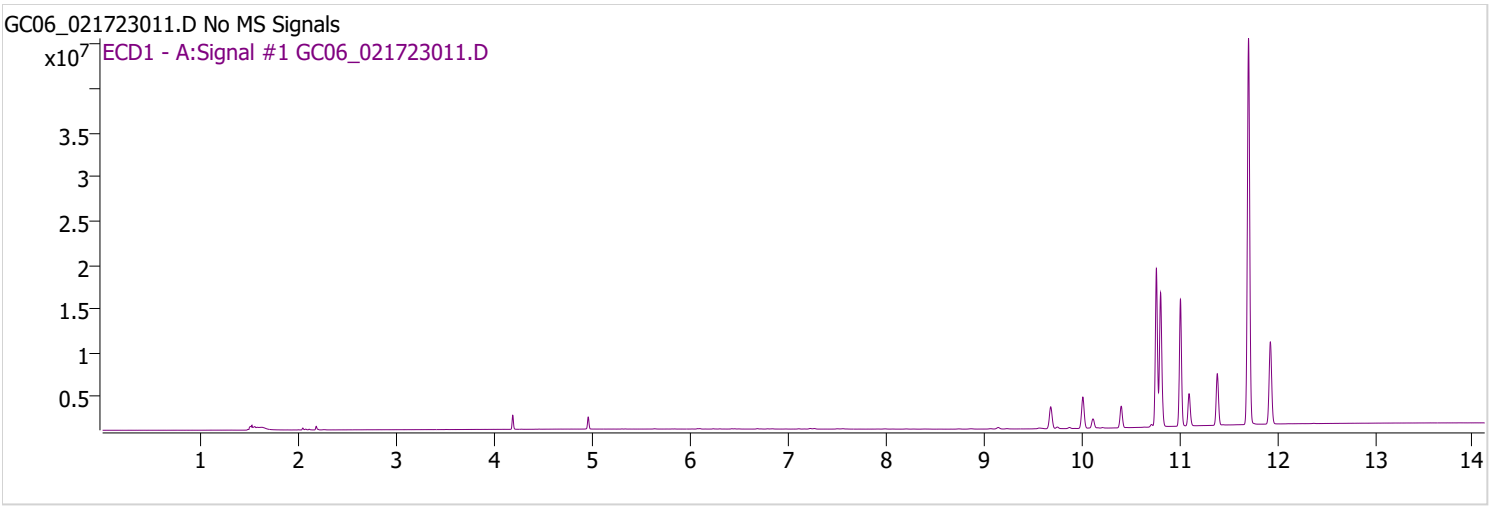
Spiked Amounts / Drifts	Ch	L1	%D
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Aroclor-1268 Peak # 3	A	2000.0	0
Aroclor-1268 Peak # 4	A	2000.0	0
Aroclor-1268 Peak # 5	A	2000.0	0
Aroclor-1268 Peak # 1	B	2000.0	0
Aroclor-1268 Peak # 2	B	2000.0	0
Aroclor-1268 Peak # 3	B	2000.0	0
Aroclor-1268 Peak # 4	B	2000.0	0
Aroclor-1268 Peak # 5	B	2000.0	0

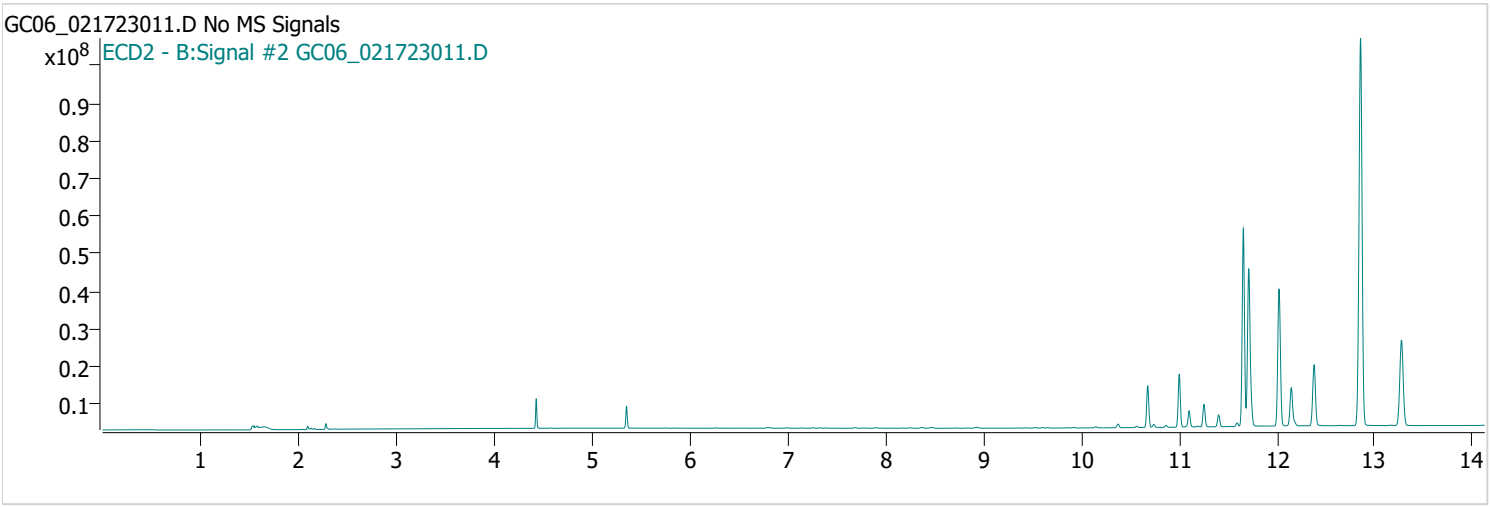
Analyst: TRN 02/24/23

Reviewer: LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723011.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 12:07:55 PM
Sample Name	ICAL, S17815	Instrument	SVOA-GC06
Vial	150	Multiplier	1.00
DA Method File	PCB_AR1268_021723_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723AR1268.batch.bin	Last Calib Update	2/24/2023 2:50:23 PM
Ref Library			



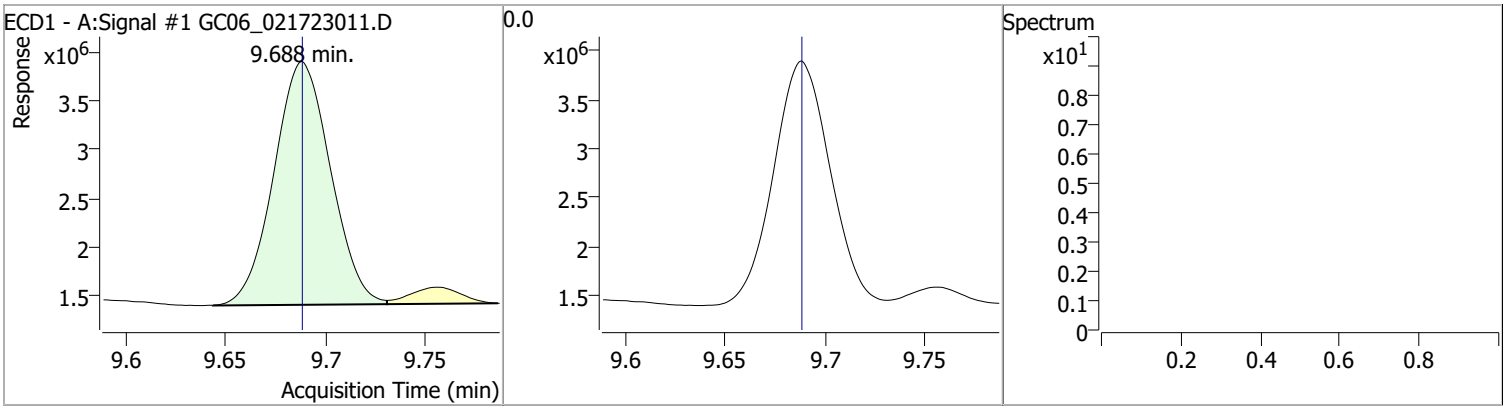


Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (1268)	4.191	0.0	1543459.774	20.0000	ng/ml	0.000
M 1-bromo-2-nitrobenzene (1268) #2	4.431	0.0	6659056.063	20.0000	ng/ml	0.010
System Monitoring Compounds						
Target Compounds						**QValue**
T AR1268 1	9.688	0.0	4923229.565	2000.0000	ng/ml	100
T AR1268 2	10.017	0.0	6320094.154	2000.0000	ng/ml	100
T Aroclor-1268	10.639	0.0	26699440.280	2000.0000	ng/ml	
T AR1268 1 #2	10.680	0.0	17014891.890	2000.0000	ng/ml	100
T AR1268 3	10.768	0.0	26979745.950	2000.0000	ng/ml	100
T AR1268 2 #2	11.002	0.0	21323093.416	2000.0000	ng/ml	100

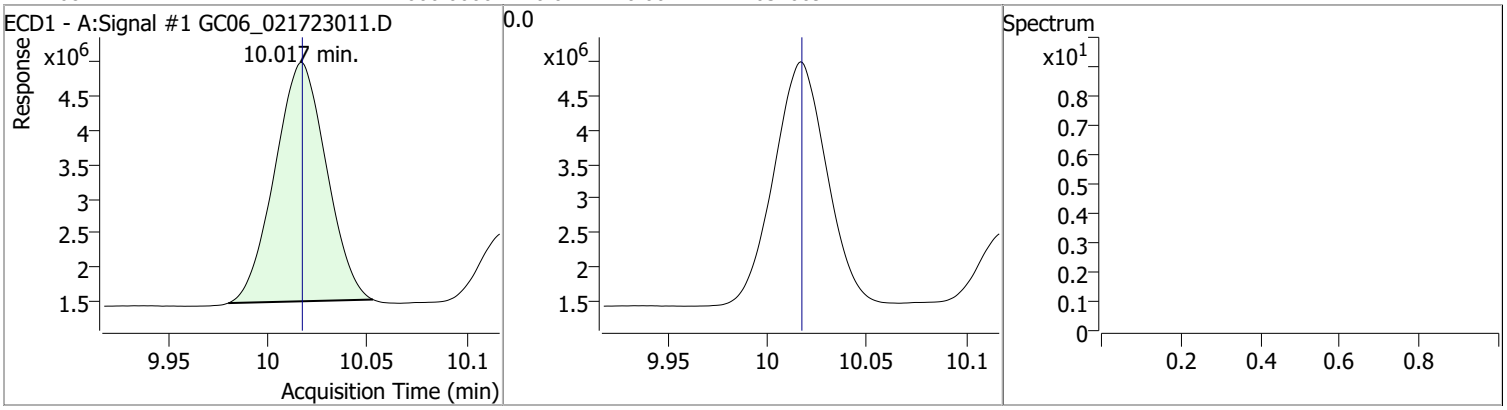
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1268 4	11.013	0.0	21467191.745	2000.0000	ng/ml	100
T AR1268 3 #2	11.657	0.0	85837306.621	2000.0000	ng/ml	100
T AR1268 5	11.709	0.0	73806939.985	2000.0000	ng/ml	100
T Aroclor-1268 #2	11.643	0.0	83644610.654	2000.0000	ng/ml	
T AR1268 4 #2	12.022	0.0	68389525.092	2000.0000	ng/ml	100
T AR1268 5 #2	12.855	0.0	225658236.252	2000.0000	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

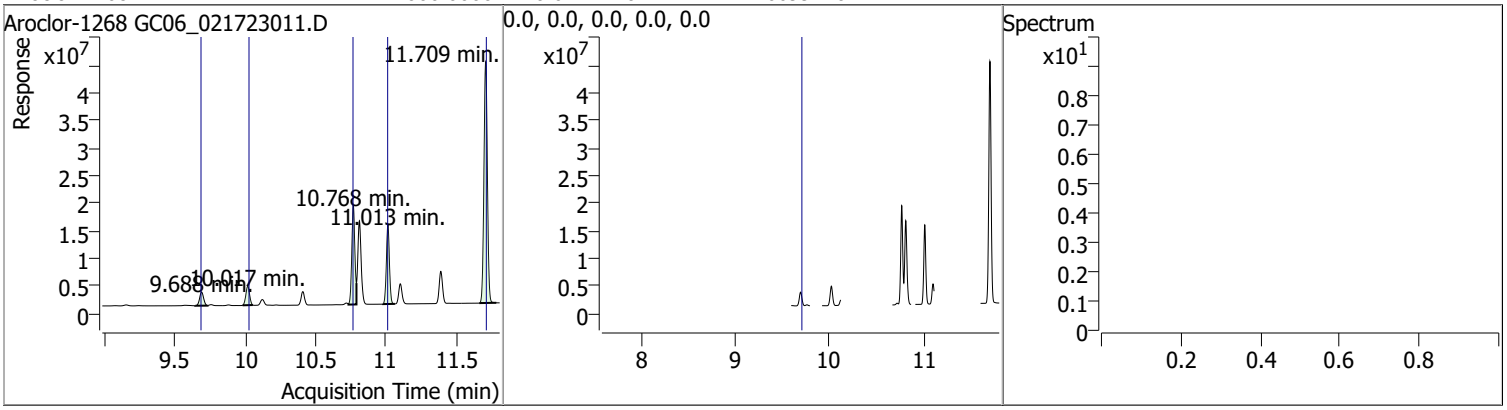
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 1	2000.0000	9.69	0.00	4923230				



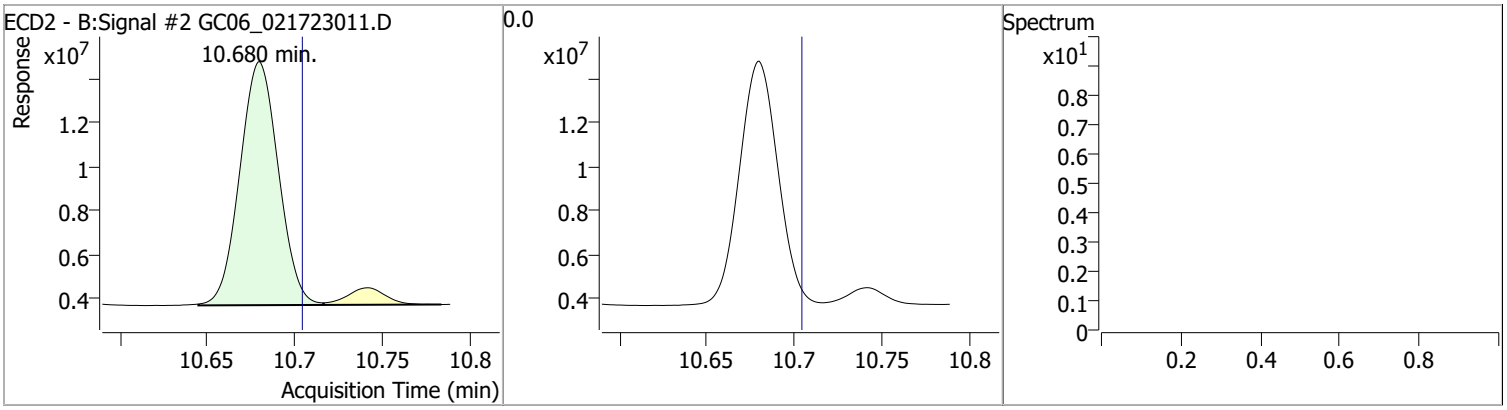
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 2	2000.0000	10.02	0.00	6320094				



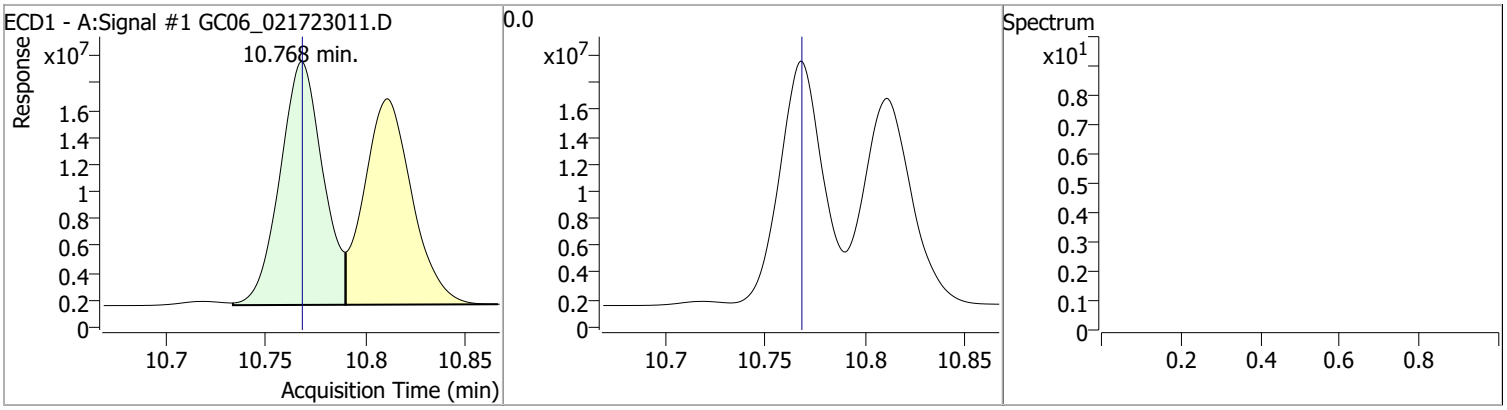
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Aroclor-1268	2000.0000	10.64	0.24	26699440				



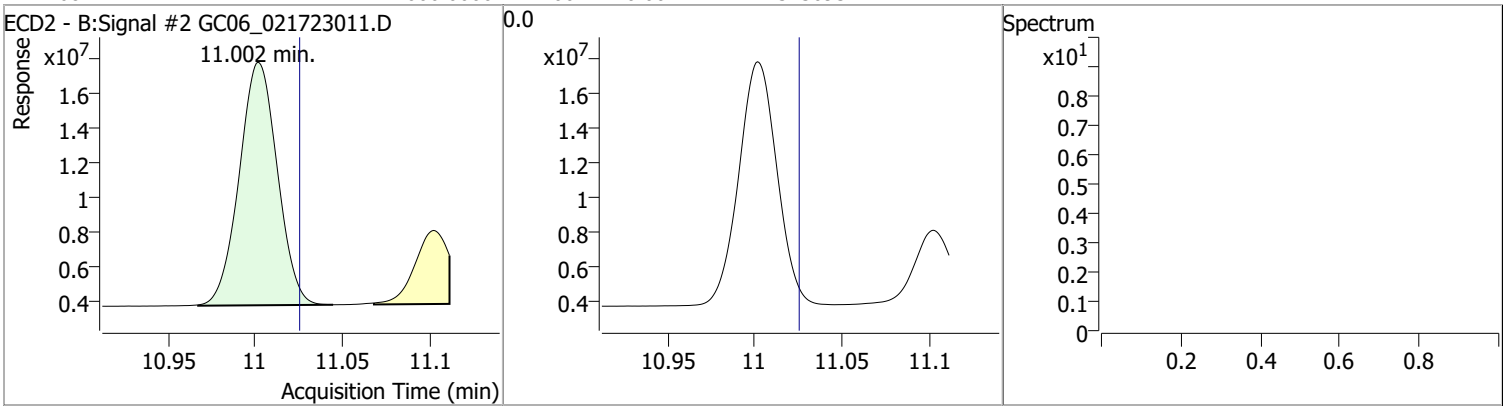
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AR1268 1 #2	2000.0000	10.68	0.00	17014892				



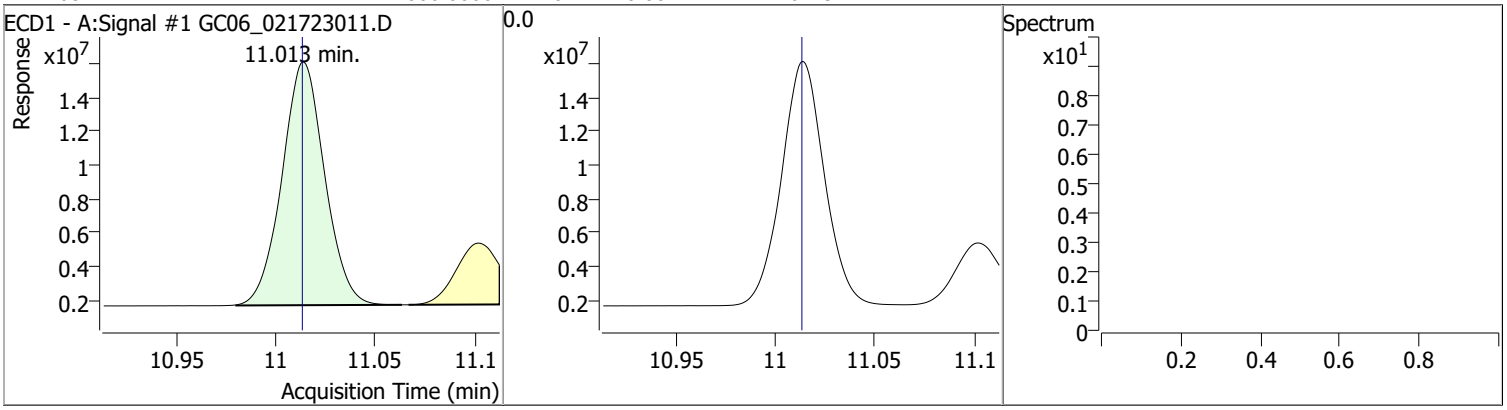
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 3	2000.0000	10.77	0.00	26979746				



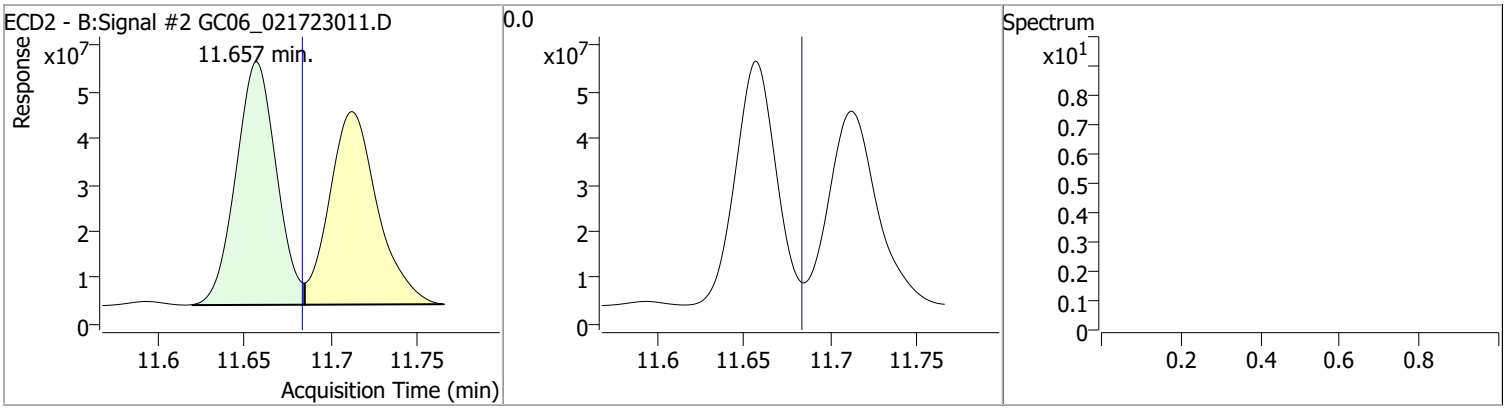
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 2 #2	2000.0000	11.00	0.00	21323093				



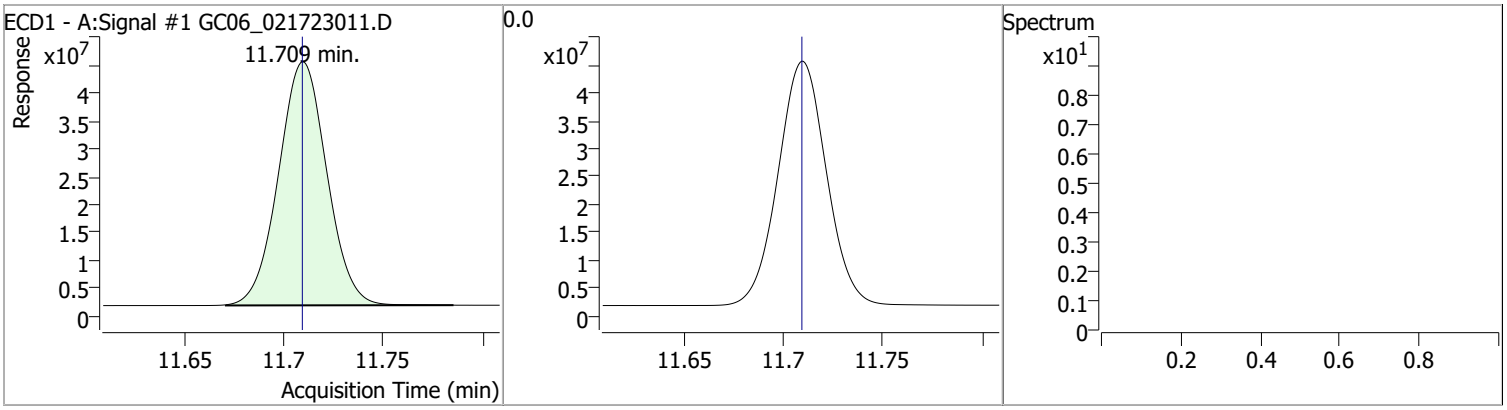
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 4	2000.0000	11.01	0.00	21467192				



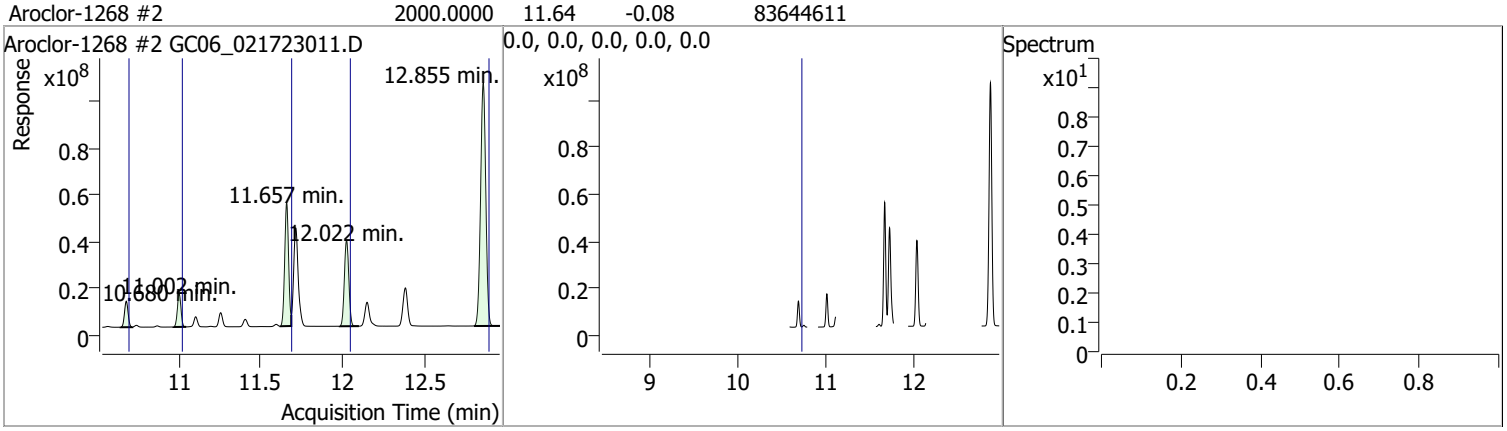
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 3 #2	2000.0000	11.66	0.00	85837307				



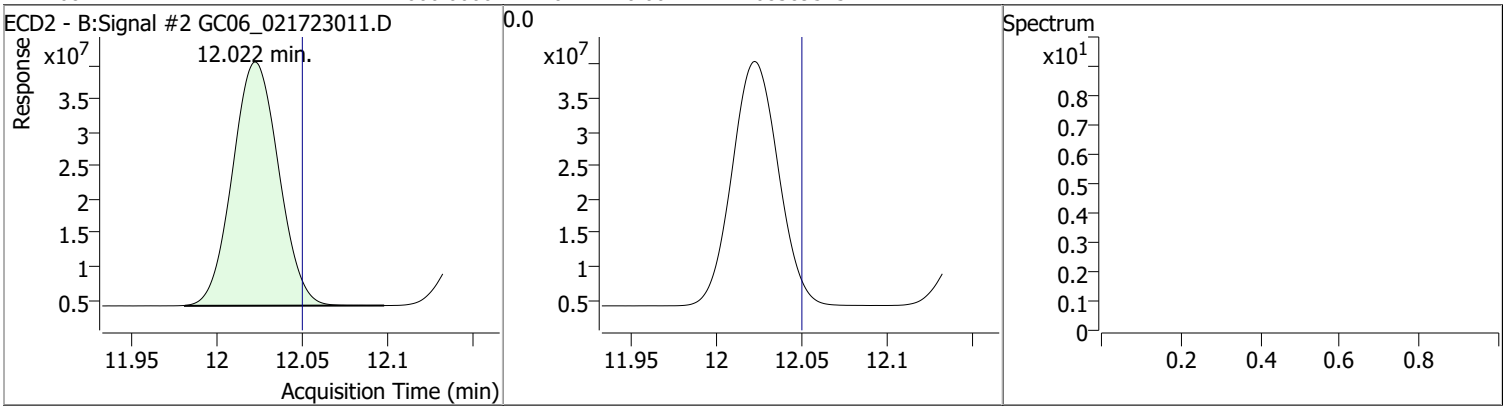
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AR1268 5	2000.0000	11.71	0.00	73806940				



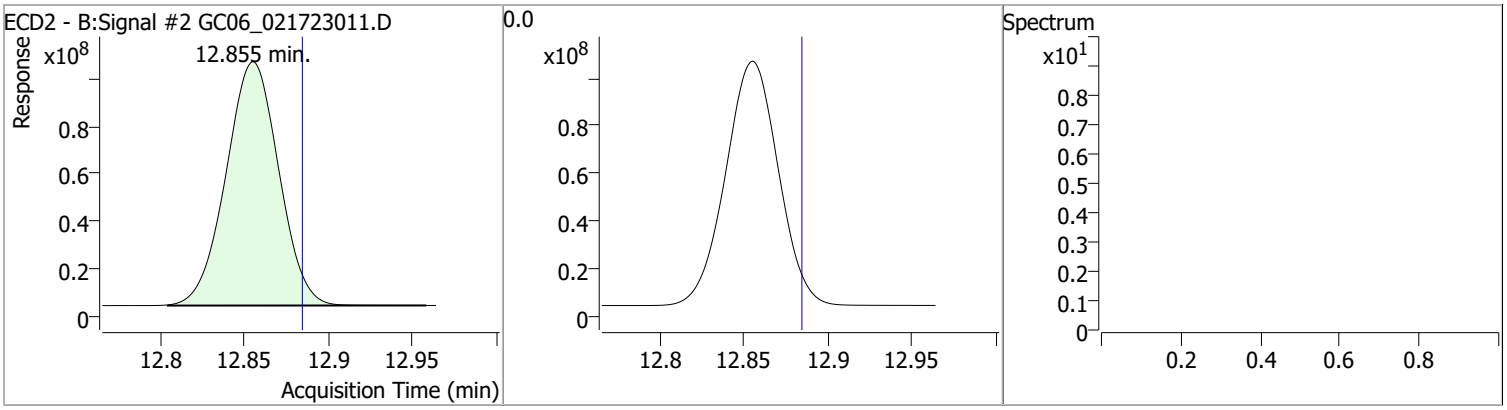
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Aroclor-1268 #2	2000.0000	11.64	-0.08	83644611				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 4 #2	2000.0000	12.02	0.00	68389525				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1268 5 #2	2000.0000	12.86	0.00	225658236				



Continuing Calibration Verification Raw Data

ENTHALPY CONTINUING CALIBRATION FOR 479661 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06			IDF:	1.0
Seqnum:	453069687029	File:	gc06_021723029	Time:	17-FEB-2023 17:33
Cal:	453057263001	Caldate:	08-FEB-2023		

Standards: S17896

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	444.6	ug/L	-11	15	0.0000	
Aroclor-1260	A			500.0	445.5	ug/L	-11	15	0.0000	
Decachlorobiphenyl (PCB)	A	1.5259	0.7818	40.00	20.50	ug/L	**-49**	15	0.0000	c-
TCMX (PCB)	A	1.0520	0.5114	40.00	19.45	ug/L	**-51**	15	0.0000	c-
Aroclor-1016	B			500.0	453.2	ug/L	-9	15	0.0000	
Aroclor-1260	B			500.0	461.2	ug/L	-8	15	0.0000	
Decachlorobiphenyl (PCB)	B	1.2074	0.6051	40.00	20.05	ug/L	**-50**	15	0.0000	c-
TCMX (PCB)	B	1.0156	0.5084	40.00	20.02	ug/L	**-50**	15	0.0000	c-

ISTD (ICAL gc06_020823016)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6070370	8293841	36.63
1-bromo-2-nitrobenzene (PCB)	A	1467458	1858745	26.66

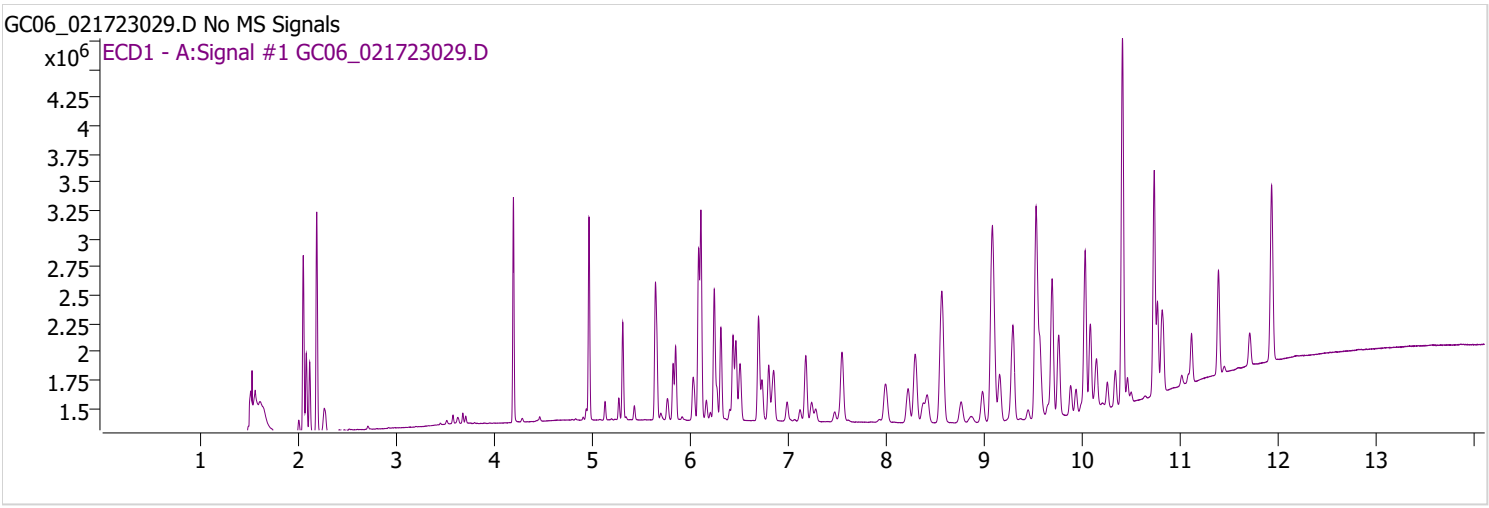
TRN 02/17/23 : Run for next batch

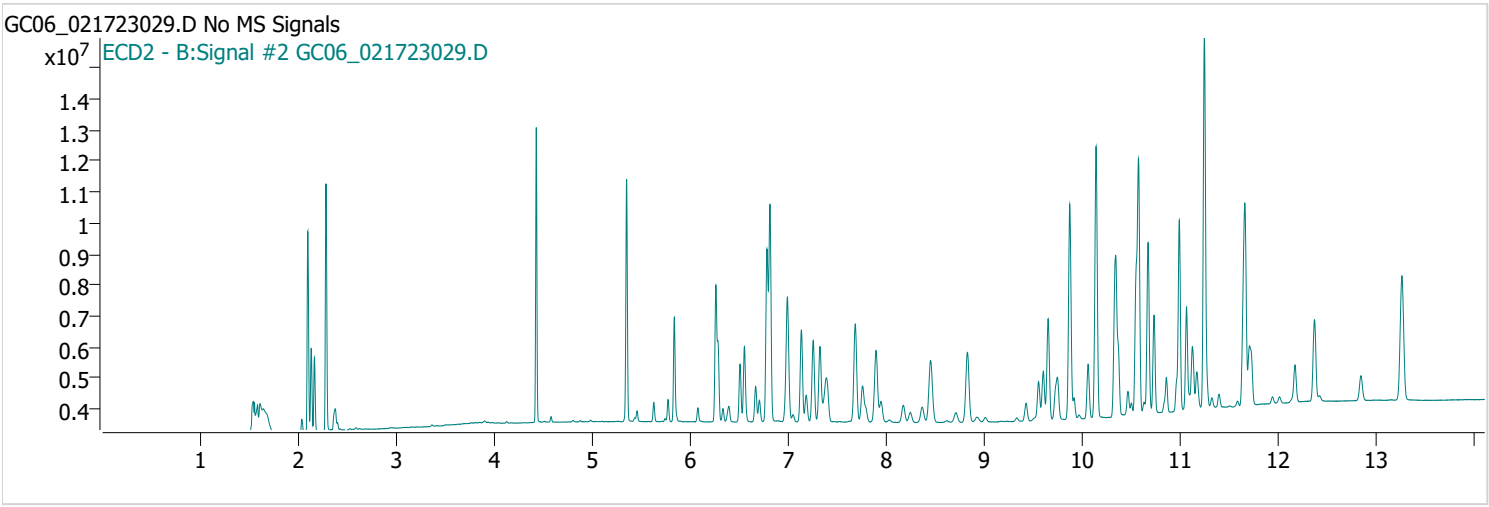
-=low bias c=CCV

Analyst: TRN 02/17/23 **Reviewer:** LW 02/24/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_021723029.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	2/17/2023 5:33:18 PM
Sample Name	CCV, S17896	Instrument	SVOA-GC06
Vial	144	Multiplier	1.00
DA Method File	PCB_608_020823_GC06_5.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	021723PCB.batch.bin	Last Calib Update	2/9/2023 2:05:04 PM
Ref Library			



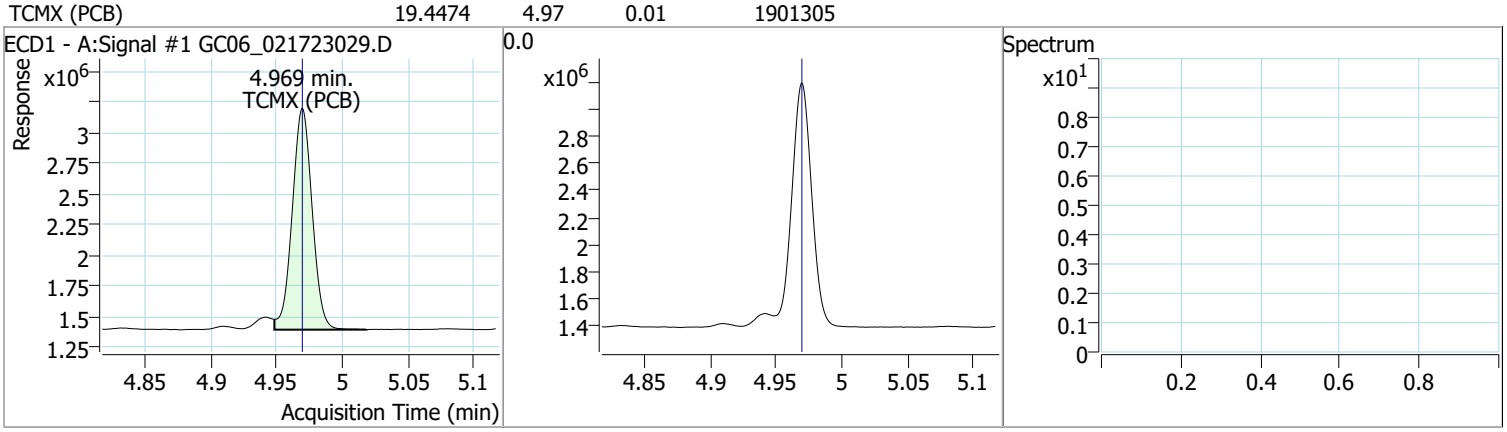


Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.197	0.0	1858744.636	20.0000	ng/ml	0.006
M 1-bromo-2-nitrobenzene (PCB) #2	4.431	0.0	8293840.889	20.0000	ng/ml	-0.001
System Monitoring Compounds						
S TCMX (PCB)	4.969	0.0	1901305.078	19.4474	ng/ml	0.007
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 97.24%		
S TCMX (PCB) #2	5.353	0.0	8433789.972	20.0251	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 100.13%		
S Decachlorobiphenyl (PCB)	11.943	0.0	2906493.177	20.4952	ng/ml	0.013
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 102.48%		
S Decachlorobiphenyl (PCB) #2	13.275	0.0	10037225.420	20.0462	ng/ml	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 100.23%		
Target Compounds						QValue

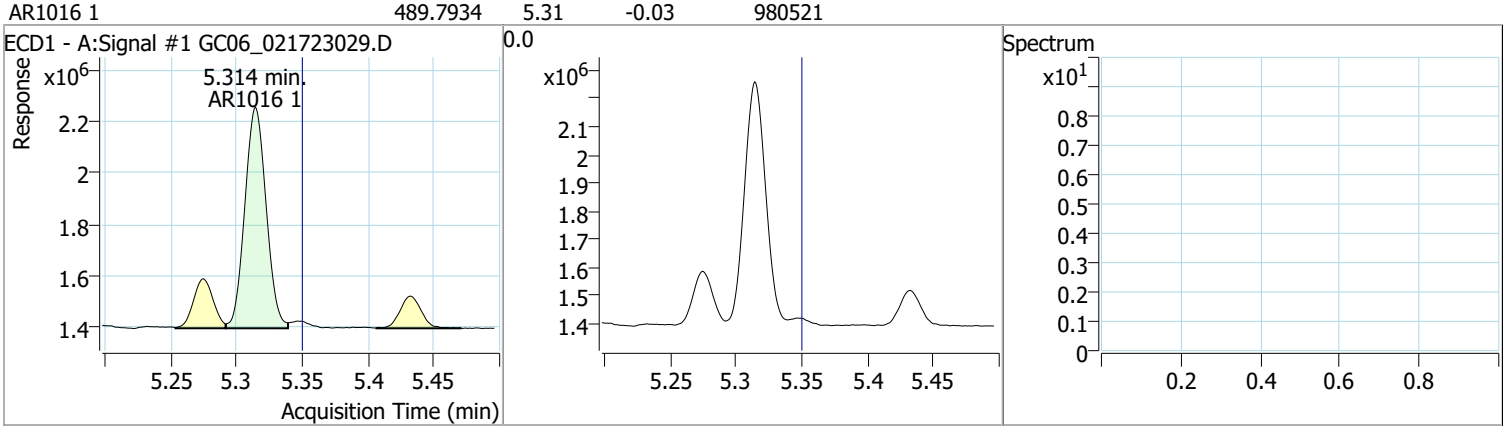
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.314	0.0	980521.248	489.7934	ng/ml	100
T AR1016 2	5.648	0.0	2083684.339	381.9571	ng/ml	100
T AR1016 1 #2	5.841	0.0	4092462.052	472.2851	ng/ml	100
T AR1016 3	6.113	0.0	2391757.307	411.6609	ng/ml	100
T AR1016 4	6.249	0.0	1919498.514	428.5747	ng/ml	100
T AR1016 2 #2	6.266	0.0	8907507.120	439.8225	ng/ml	100
T AR1016 5	6.441	0.0	1115683.527	510.9402	ng/ml	100
T AR1016 3 #2	6.818	0.0	11037096.150	445.3957	ng/ml	100
T AR1016 4 #2	6.996	0.0	8005579.461	453.0554	ng/ml	100
T AR1016 5 #2	7.689	0.0	6518676.417	455.2644	ng/ml	100
T AR1260 1	8.574	0.0	3236234.071	430.1193	ng/ml	100
T AR1260 2	9.091	0.0	4830277.459	460.3805	ng/ml	100
T AR1260 3	9.537	0.0	5453782.958	460.6768	ng/ml	100
T AR1260 1 #2	9.881	0.0	12398795.174	473.6965	ng/ml	100
T AR1260 4	10.038	0.0	2596441.636	415.8287	ng/ml	100
T AR1260 2 #2	10.150	0.0	15039436.686	486.8948	ng/ml	100
T AR1260 3 #2	10.583	0.0	19410598.493	482.0198	ng/ml	100
T AR1260 5	10.744	0.0	3272797.536	460.3930	ng/ml	100
T AR1260 4 #2	11.000	0.0	9722692.403	460.1935	ng/ml	100
T AR1260 5 #2	11.669	0.0	14892423.543	403.3265	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

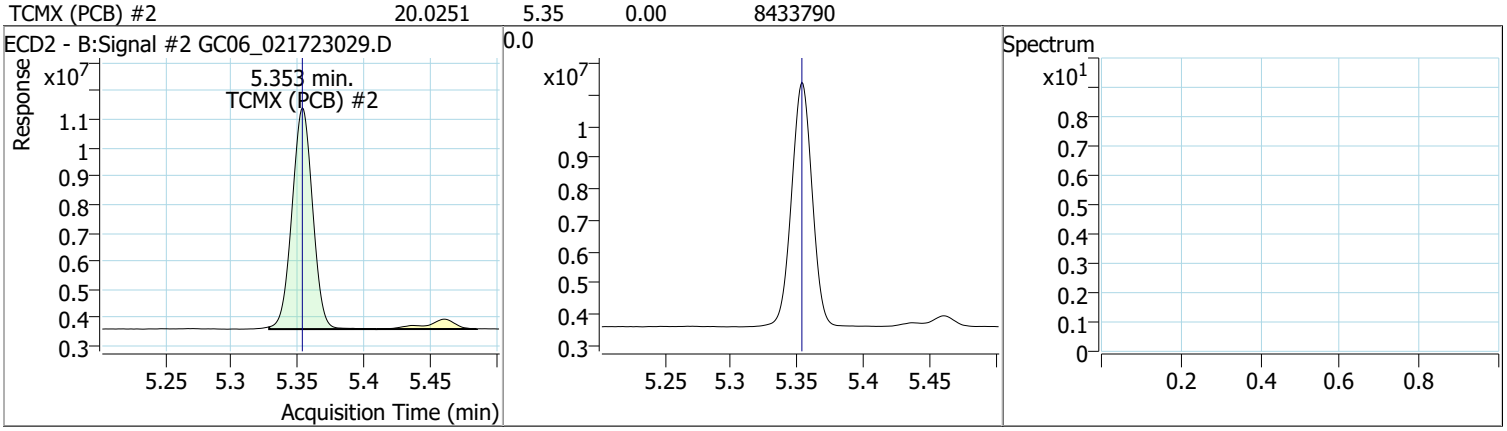
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	19.4474	4.97	0.01	1901305				



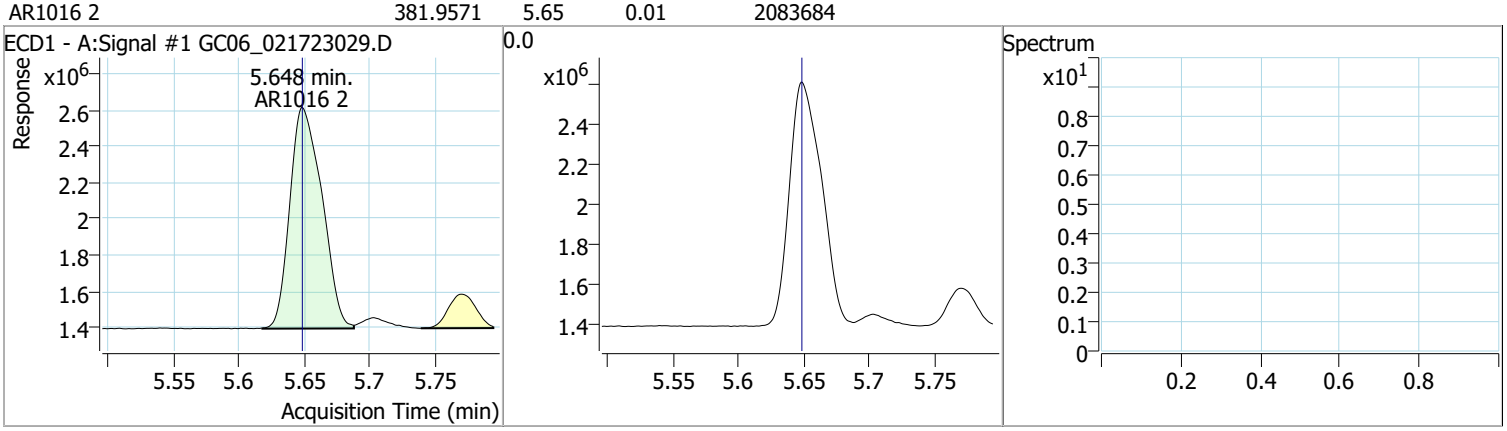
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	489.7934	5.31	-0.03	980521				



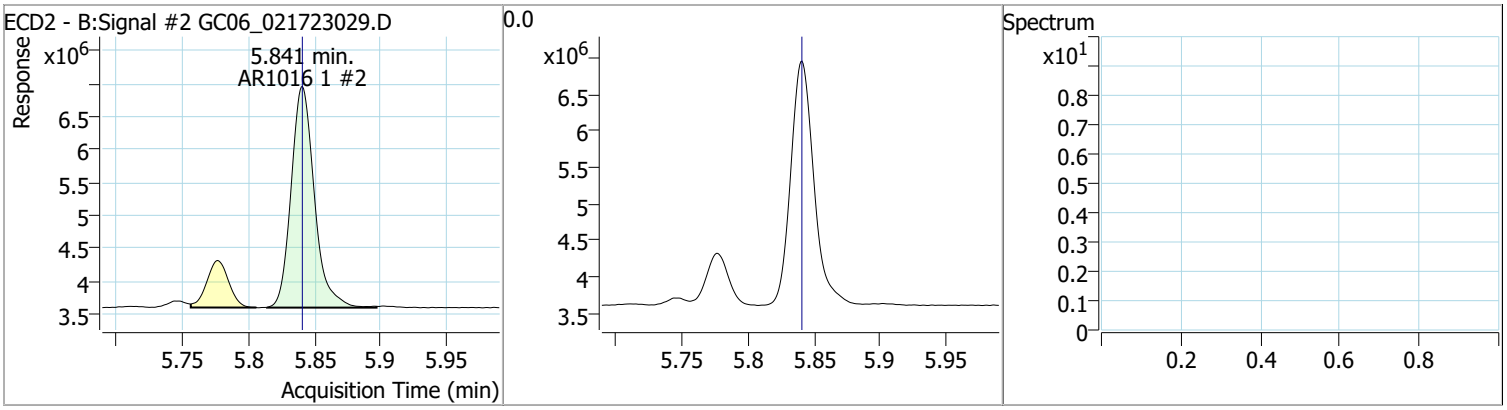
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	20.0251	5.35	0.00	8433790				



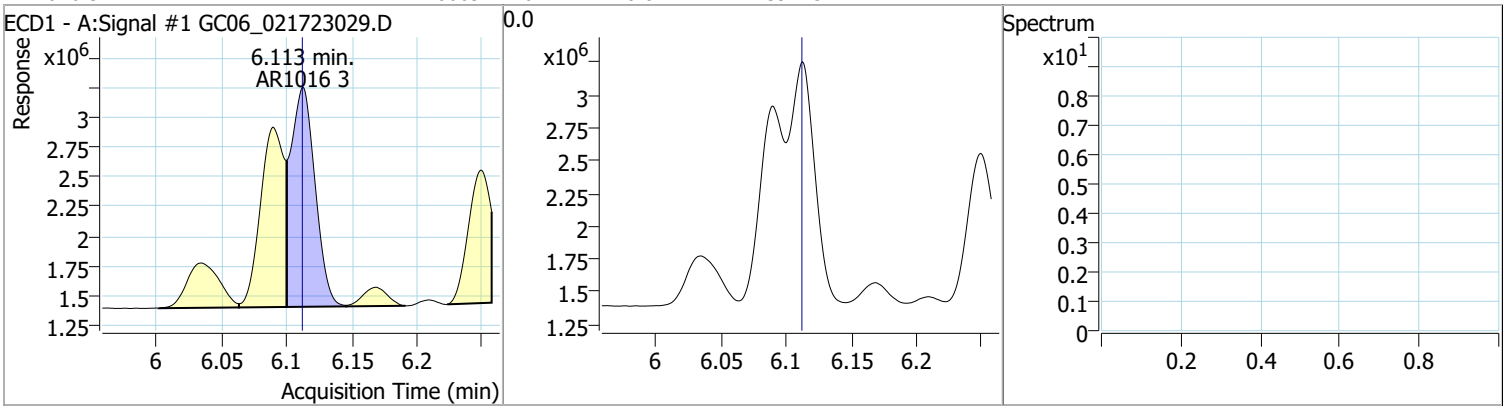
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	381.9571	5.65	0.01	2083684				



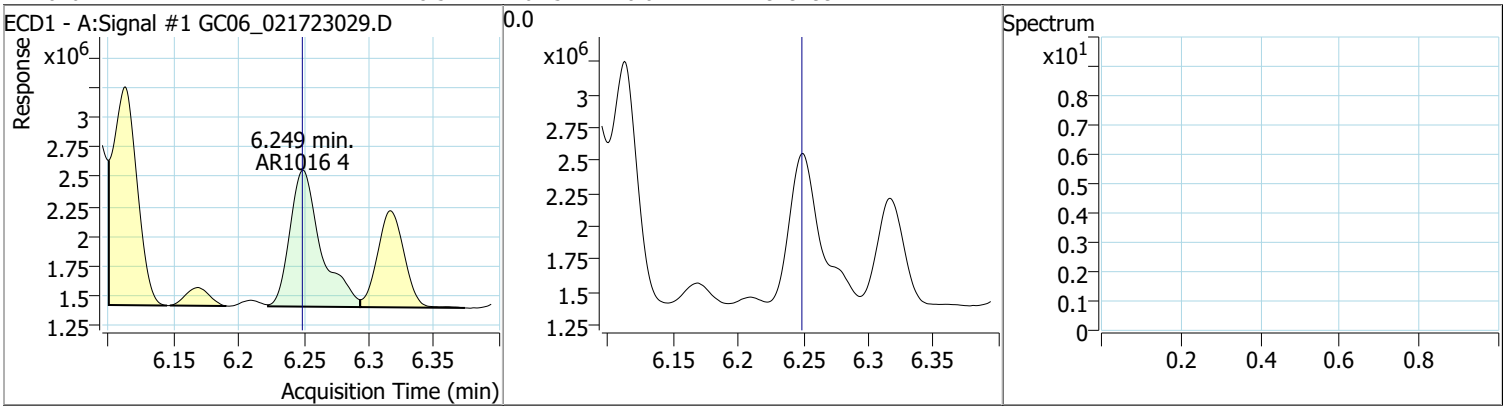
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	472.2851	5.84	0.00	4092462				



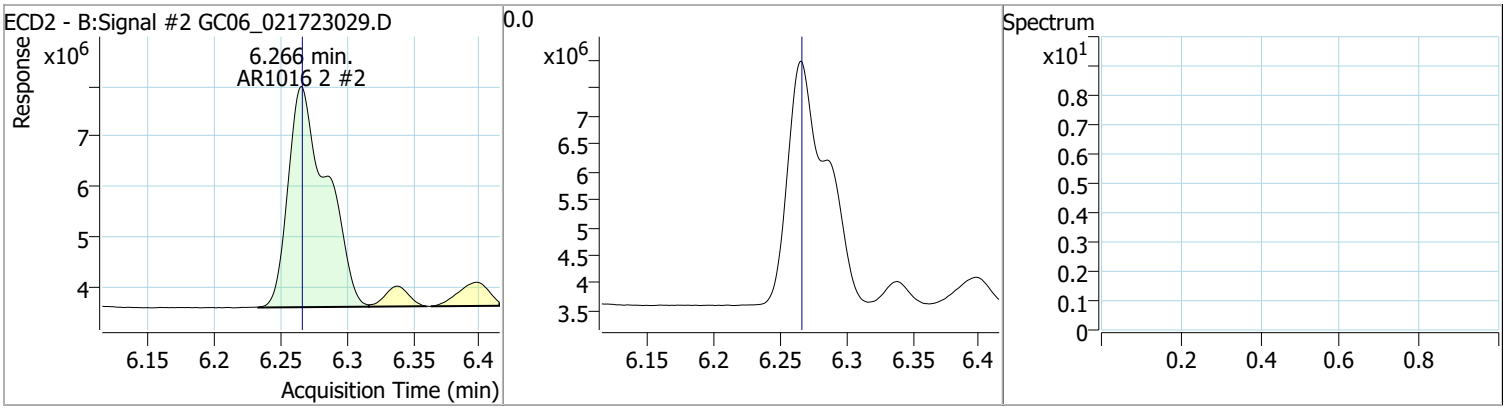
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	411.6609	6.11	0.01	2391757				



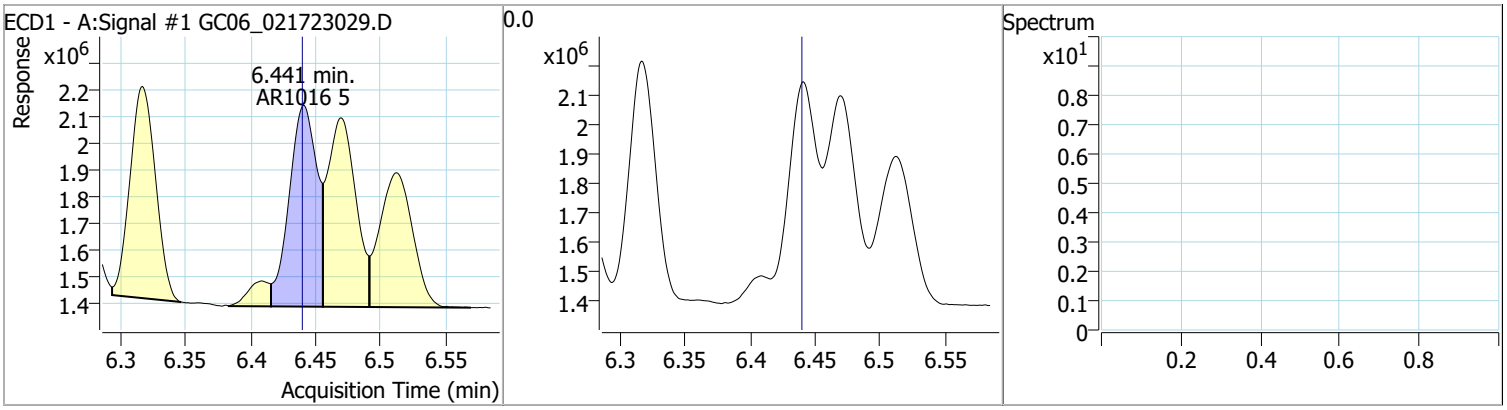
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	428.5747	6.25	0.01	1919499				



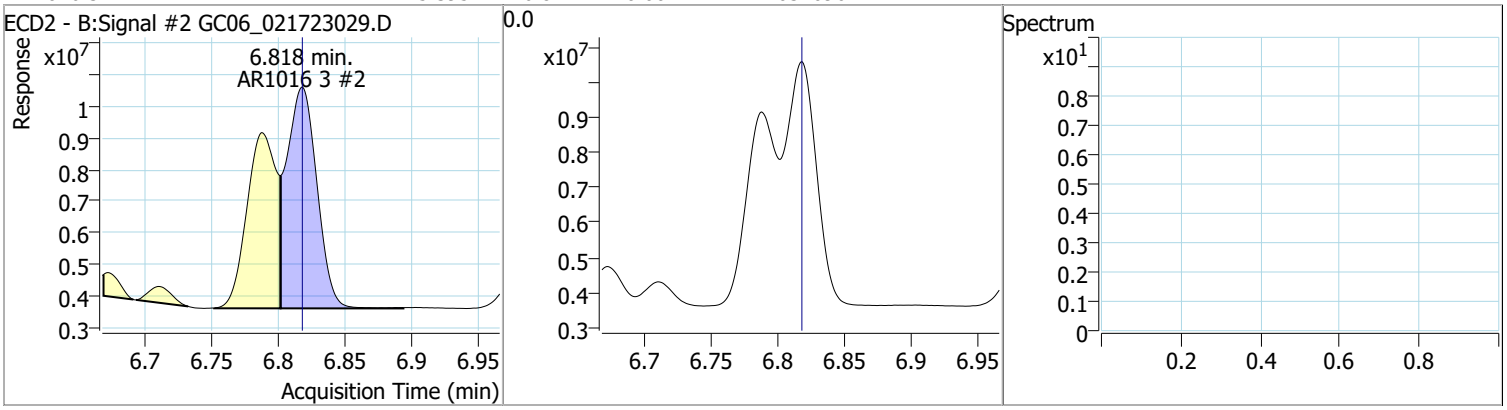
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	439.8225	6.27	0.00	8907507				



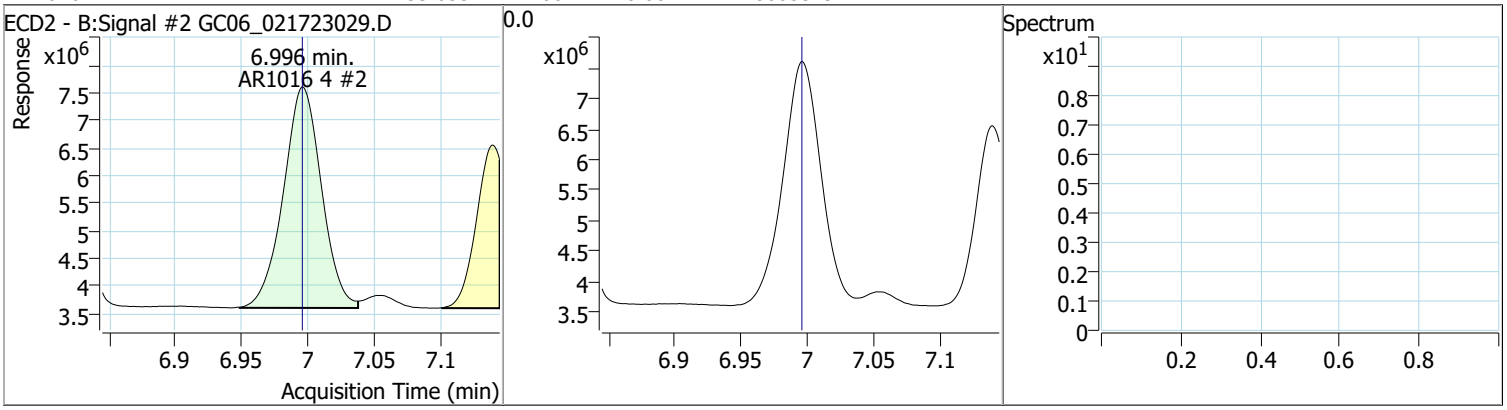
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	510.9402	6.44	0.01	1115684				



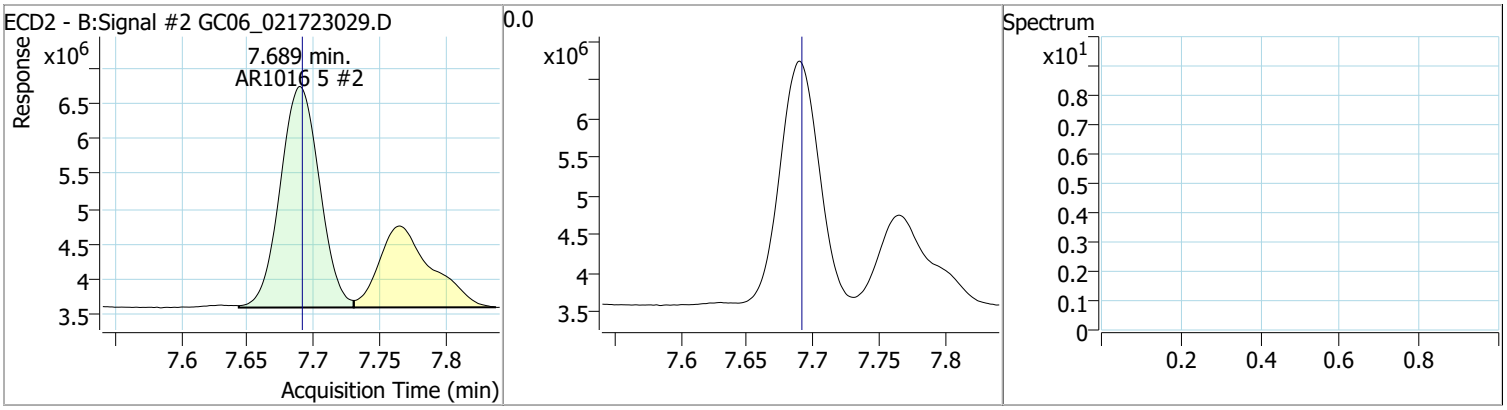
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	445.3957	6.82	0.00	11037096				



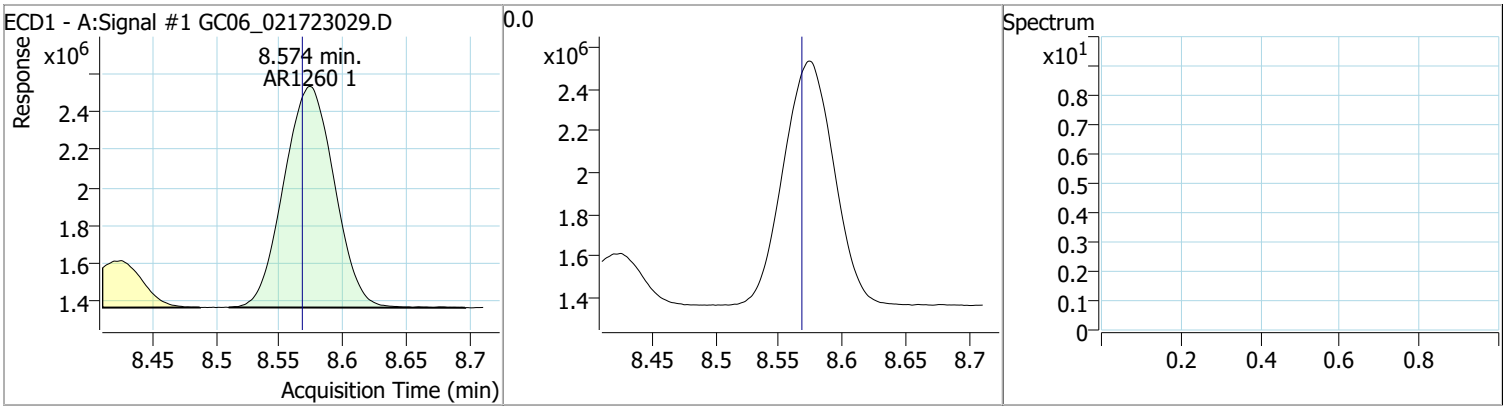
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	453.0554	7.00	0.00	8005579				



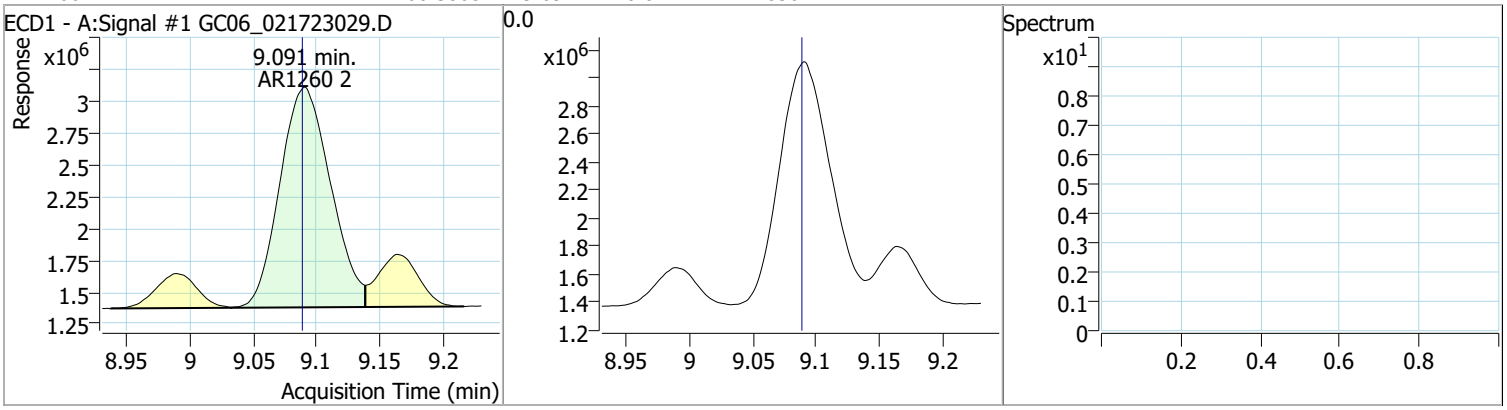
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	455.2644	7.69	0.00	6518676				



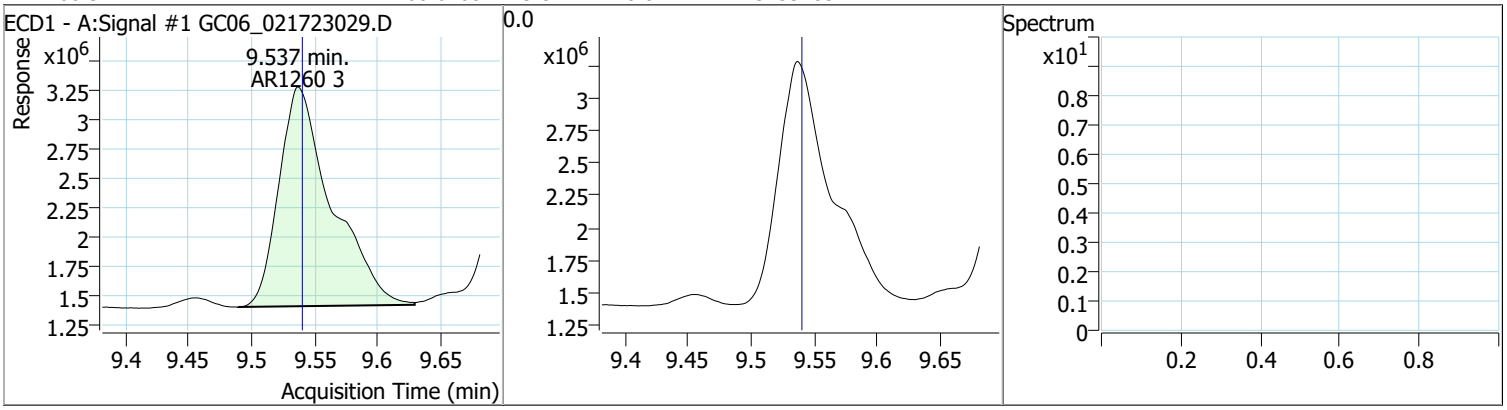
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	430.1193	8.57	0.02	3236234				



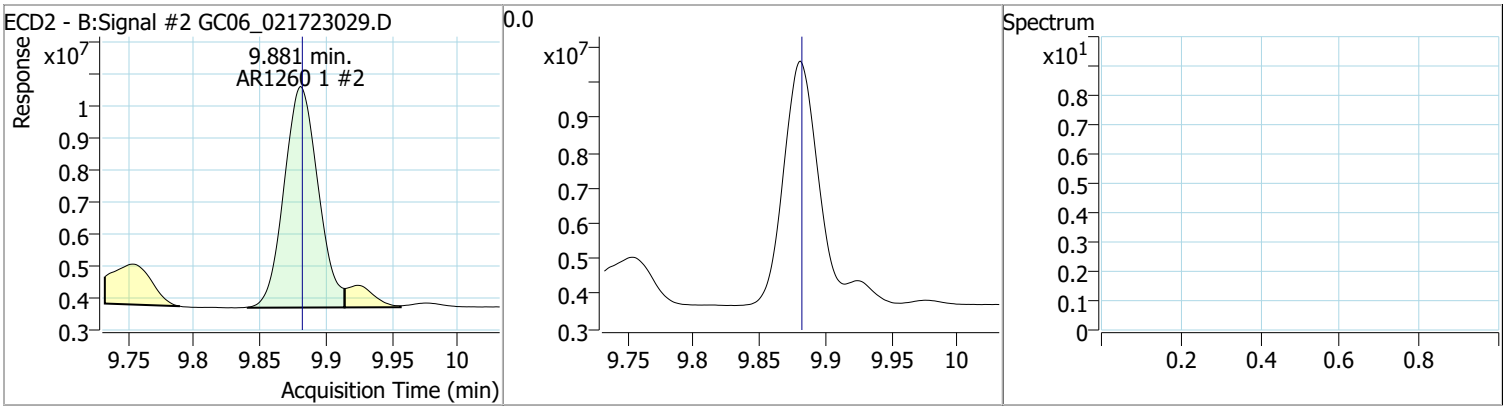
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	460.3805	9.09	0.02	4830277				



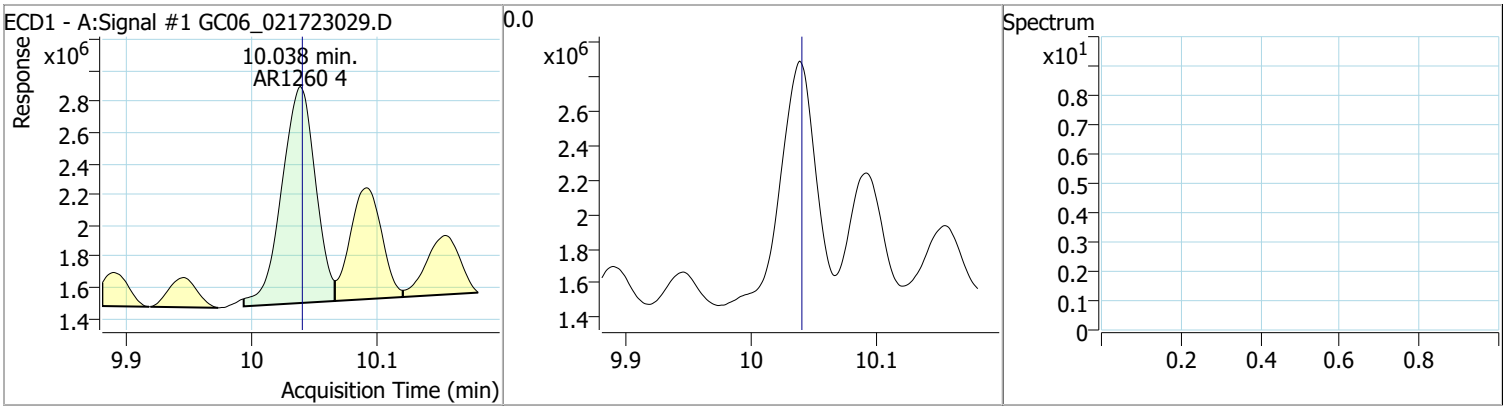
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	460.6768	9.54	0.01	5453783				



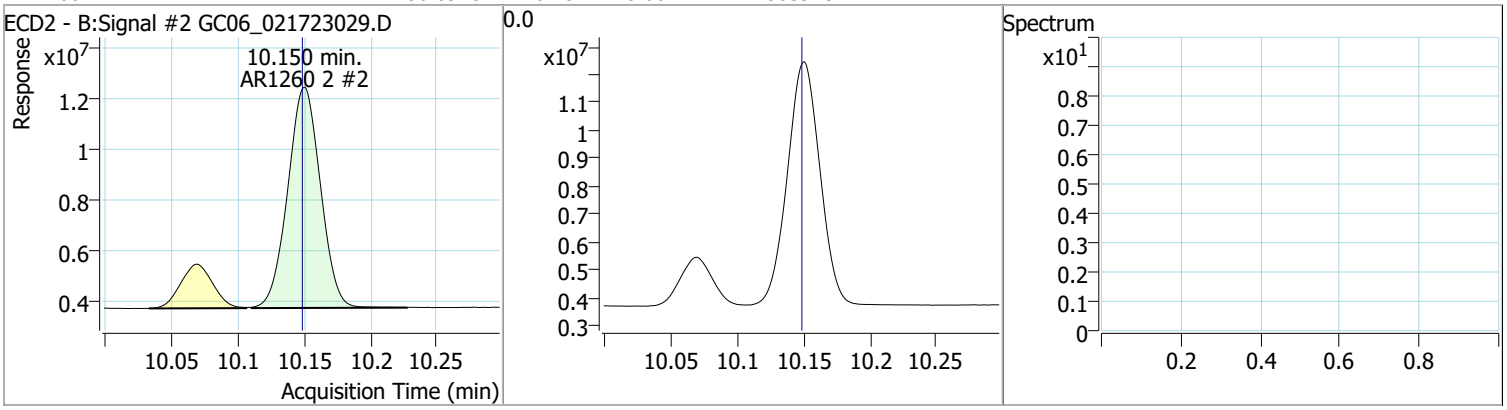
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	473.6965	9.88	0.00	12398795				



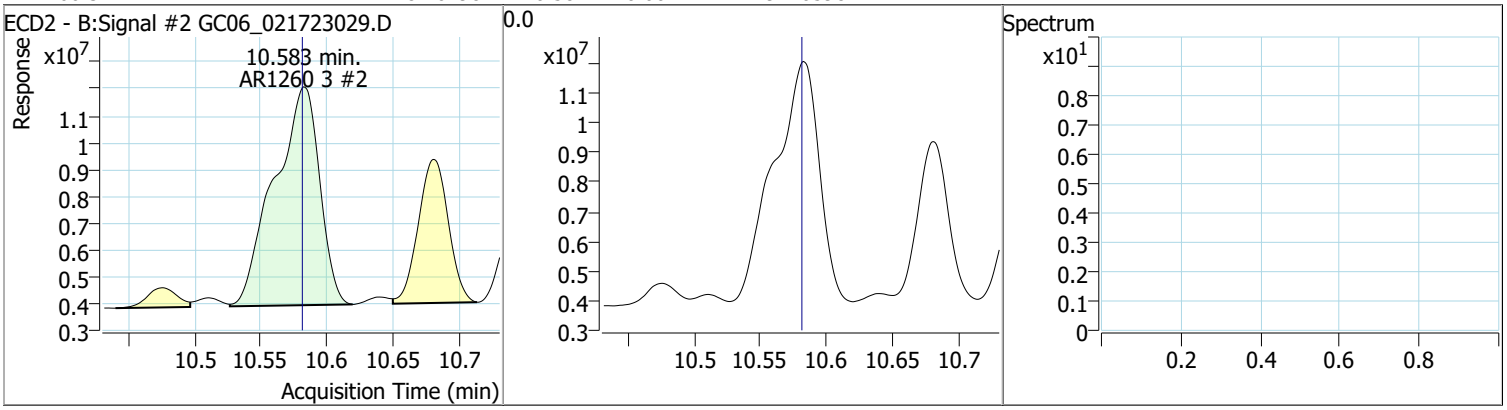
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	415.8287	10.04	0.01	2596442				



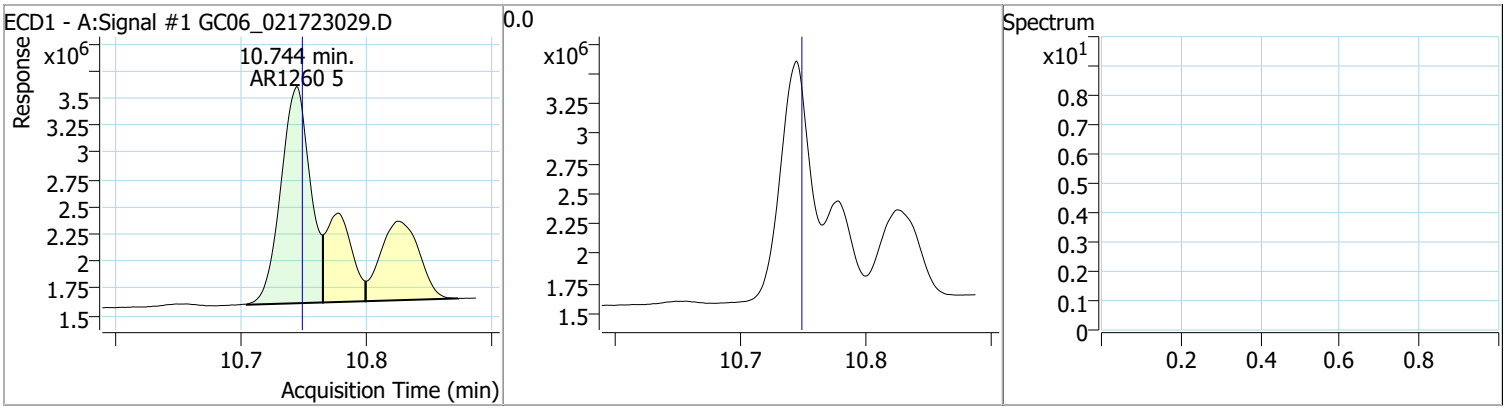
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	486.8948	10.15	0.00	15039437				



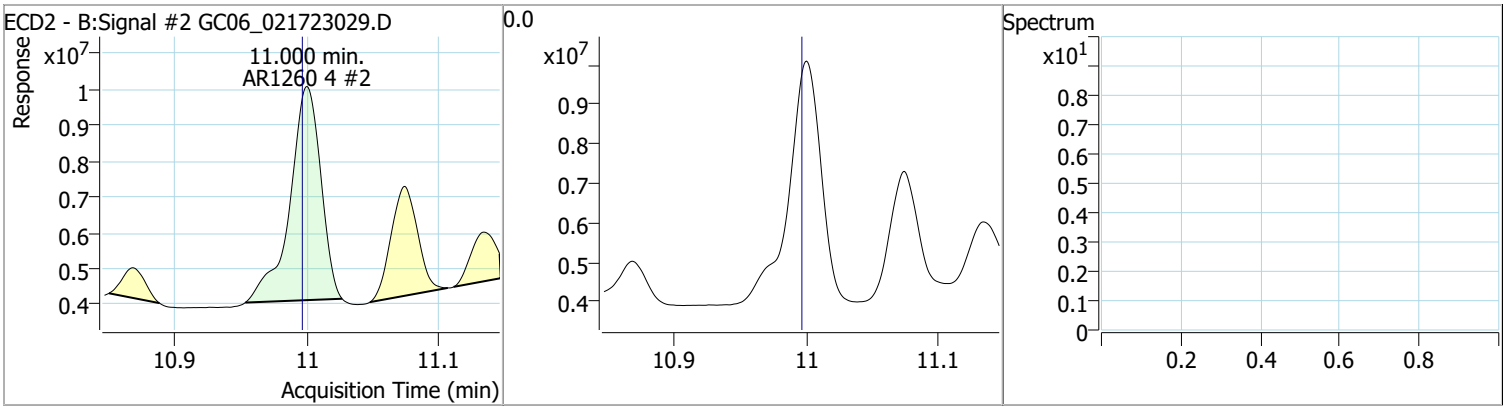
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	482.0198	10.58	0.00	19410598				



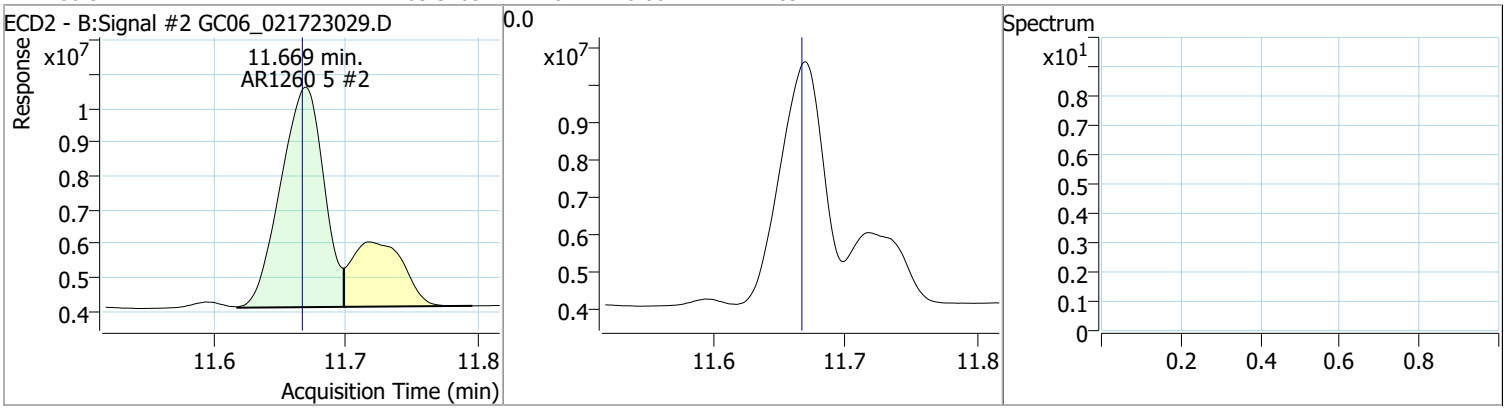
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	460.3930	10.74	0.01	3272798				



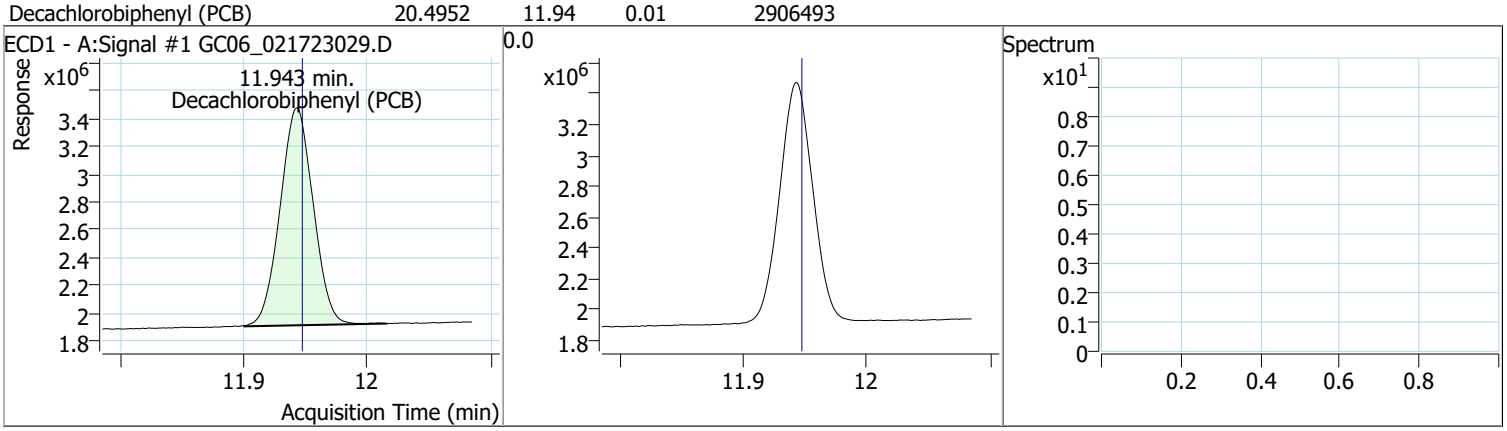
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	460.1935	11.00	0.00	9722692				



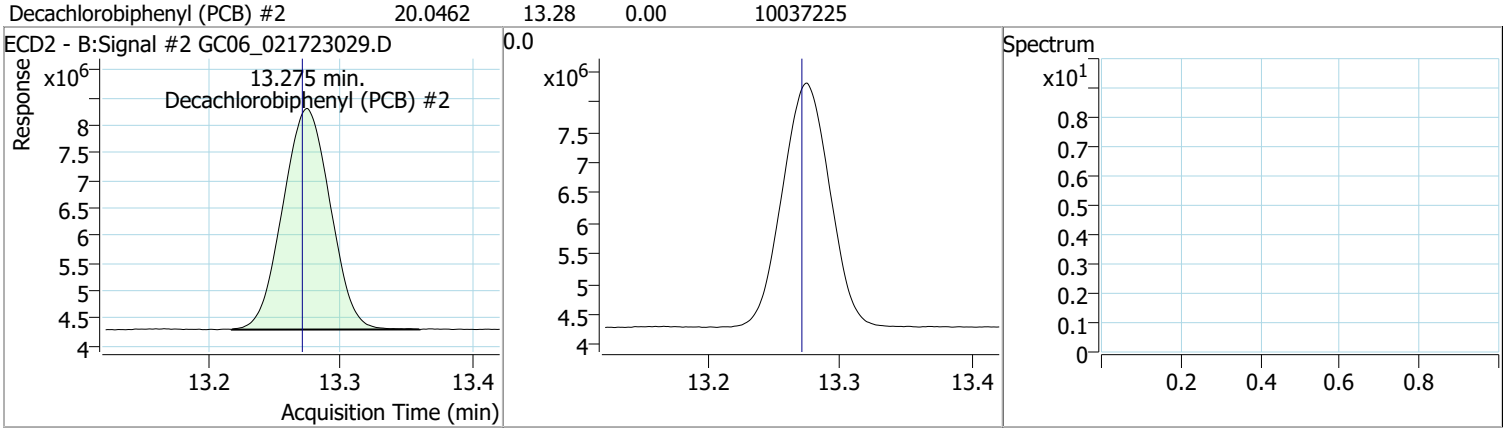
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	403.3265	11.67	0.00	14892424				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	20.4952	11.94	0.01	2906493				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	20.0462	13.28	0.00	10037225				



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 479661
Report Level: IV
Report Date: 02/24/2023

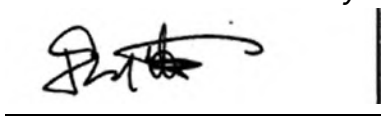
Metals

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	479661
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	02/16/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C5E-EXT-1 TO 2-230216-L-WF	479661-002	02/16/23 08:04	Wipe
ARCH-C5E-EXT-1 TO 2-230216-L-DUP-WF	479661-003	02/16/23 08:04	Wipe
ARCH-C3E-EXT-1 TO 2-230216-L-WF	479661-006	02/16/23 07:50	Wipe
ARCH-C4E-DG-2 TO 2.5-230216-L-FB	479661-008	02/16/23 08:40	Wipe
ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-L-LA	479661-010	02/16/23 08:25	Wipe
ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-L-LA	479661-013	02/16/23 09:15	Wipe
ARCH-C4E-INT-2.5 TO 3.5-230216-L-WF	479661-015	02/16/23 08:50	Wipe
ARCH-C4E-INT-2.5 TO 3.5-230216-L-DUP-WF	479661-016	02/16/23 08:50	Wipe

ENTHALPY ANALYTICAL

Case Narrative

METALS (EPA 6010B)

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 479661 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 02/16/23

This data package contains sample and QC results for eight wipe samples, requested for the above referenced project on 02/17/23. See attached cooler receipt form for any sample receipt problems or discrepancies.

Metals (EPA 6010B):

- An interference check standard recovered slightly low for lead in the presence of high concentrations of aluminum. As it relates to these samples, the bias is insignificant; results are flagged "b", but there is no effect on the data quality.
- No analytical problems were encountered.

Chain of Custody

479661

ENTHALPY ANALYTICAL

Chain of Custody Record — GOC ID:

Page: 1 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (PB)	custom TAT:	

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level IV

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Smnott

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 3546/8082	Lead by EPA Method 3050M/6010B	HOLD	Test Instructions / Comments
1	ARCH-C5E-EXT-1 TO 2-230216-P- WF	2/16/2023	0804	WP	1	--	X			**Confirmation Wipe Samples - Level IV Report/Stage 3 Validation**
2	ARCH-C5E-EXT-1 TO 2-230216-L- WF	2/16/2023	0804	WP	1	--		X		Report PCB concentrations on a µg/100cm2 basis
3	ARCH-C5E-EXT-1 TO 2-230216-L-DUP- WF	2/16/2023	0804	WP	1	--		X		Report lead concentrations on a µg/ft2 basis
4	ARCH-C3E-EXT-1 TO 2-230216-P- WF	2/16/2023	0750	WP	1	--	X			Report Aroclor 1268 concentrations in addition to the standard Aroclors
5	ARCH-C3E-EXT-1 TO 2-230216-P-DUP- WF	2/16/2023	0750	WP	1	--	X			Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)
6	ARCH-C3E-EXT-1 TO 2-230216-L- WF	2/16/2023	0750	WP	1	--		X		
7	ARCH-C4E-DG-2 TO 2.5-230216-P- FB	2/16/2023	0840	WP	1	--	X			
8	ARCH-C4E-DG-2 TO 2.5-230216-L- FB	2/16/2023	0840	WP	1	--		X		
9	ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-P- LA	2/16/2023	0825	WP	1	--	X			
10	ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-L- LA	2/16/2023	0825	WP	1	--		X		2x Rivet Type 2 = 0.0200 ft2
11	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P- LA	2/16/2023	0915	WP	1	--	X			
12	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-DUP- LA	2/16/2023	0915	WP	1	--	X			
13	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-L- LA	2/16/2023	0915	WP	1	--		X		2x Rivet Type 2 =0.0200 ft
14	ARCH-C4E-INT-2.5 TO 3.5-230216-P- WF	2/16/2023	0850	WP	1	--	X			
15	ARCH-C4E-INT-2.5 TO 3.5-230216-L- WF	2/16/2023	0850	WP	1	--		X		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Tyler Smott	Rincon / Envi. Scientist	2/16/23 / 1246
[1] Received By:		Miguel Gamboa	EA	2/16/23 1246
[2] Relinquished By:		JJP	Enthalpy	2.16.23 13:53
[2] Received By:		FPOWS	EA	2/17/23 0810
[3] Relinquished By:				
[3] Received By:				

479661

ENTHALPY ANALYTICAL

Chain of Custody Record COC ID:

Page: 2 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (PB)	custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level IV

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 3546/8082	Lead by EPA Method 3050M/6010B								HOLD
16	ARCH-C4E-INT-2.5 TO 3.5-230216-L-DUP- WF	2/16/2023	0850	WP	1	--		X								
17																
18																
19																
20																
21																
22																
23																
24																
25																
26																
27																
28																
29																
30																

Test Instructions / Comments

Confirmation Wipe Samples - Level IV Report/Stage 3 Validation

Report PCB concentrations on a µg/100cm2 basis

Report lead concentrations on a µg/ft2 basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	TR Smith	Tyler Sinnott	Rincon / Envi. Scientist	2/16/23 / 1246
[1] Received By:		Missy Bowen	Ex	2/16/23 1246
[2] Relinquished By:		JJP	Enthalpy	2.16.23 13:53
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 479661 Client: Ramon

Date Received: 2/16/23 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 2/16/23 By (print) MM (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☑ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: No custody seal found on cooler.

Date Logged in 2/16/23 **By (print)** MM **(sign)** _____

Date Labeled 2.16.23 **By (print)** JJP **(sign)** _____

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 02/17/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 3.8 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 1.5 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 2/17/23

SOUTHWEST AIRLINES

Printed on:
16 FEB 18:33

526 OAK 8463 8190

SNA

PC# 4 OF 4 | DG G | LOT WT 160 LB (72.5 KG)

OAK WN 1738 16 FEB 19:25

STN FLT DATE ETD LOT 01

PC ID: 0004
PC WT: 40LB

526 84638190 0004

S

1.5 / 3.8

Results & QC Summary

ENTHALPY ANALYTICAL

Lead

Lab #: 479661 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-EXT-1 TO 2-230216-L-WF **Batch#:** 307903 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 6010B
Lab ID: 479661-002 **Received:** 02/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/17/23
Dil n Fac: 1.000 **Analyzed:** 02/18/23

479661-002 Analyte	Result	RL	Units	Qual
Lead	**190**	0.25	ug/ft2	b

Field ID: ARCH-C5E-EXT-1 TO 2-230216-L-DUP-WF **Batch#:** 307903 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 6010B
Lab ID: 479661-003 **Received:** 02/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/17/23
Dil n Fac: 1.000 **Analyzed:** 02/18/23

479661-003 Analyte	Result	RL	Units	Qual
Lead	**150**	0.25	ug/ft2	b

Field ID: ARCH-C3E-EXT-1 TO 2-230216-L-WF **Batch#:** 307903 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 6010B
Lab ID: 479661-006 **Received:** 02/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/17/23
Dil n Fac: 1.000 **Analyzed:** 02/18/23

479661-006 Analyte	Result	RL	Units	Qual
Lead	**120**	0.25	ug/ft2	b

Field ID: ARCH-C4E-DG-2 TO 2.5-230216-L-FB **Batch#:** 307903 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 6010B
Lab ID: 479661-008 **Received:** 02/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/17/23
Dil n Fac: 1.000 **Analyzed:** 02/18/23

479661-008 Analyte	Result	RL	Units	Qual
Lead	**110**	0.25	ug/ft2	b

Field ID: ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-L-LA **Batch#:** 307903 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 6010B
Lab ID: 479661-010 **Received:** 02/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/17/23
Dil n Fac: 1.000 **Analyzed:** 02/18/23

479661-010 Analyte	Result	RL	Units	Qual
Lead	**310**	0.25	ug/ft2	b

ENTHALPY ANALYTICAL

Lead

Lab #: 479661 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-L-LA **Batch#:** 307903 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 6010B
Lab ID: 479661-013 **Received:** 02/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/17/23
Dln Fac: 1.000 **Analyzed:** 02/18/23

479661-013 Analyte	Result	RL	Units	Qual
Lead	**230**	0.25	ug/ft2	b

Field ID: ARCH-C4E-INT-2.5 TO 3.5-230216-L-WF **Batch#:** 307903 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 6010B
Lab ID: 479661-015 **Received:** 02/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/17/23
Dln Fac: 1.000 **Analyzed:** 02/18/23

479661-015 Analyte	Result	RL	Units	Qual
Lead	**330**	0.25	ug/ft2	b

Field ID: ARCH-C4E-INT-2.5 TO 3.5-230216-L-DUP-WF **Batch#:** 307903 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/16/23 **Analysis:** EPA 6010B
Lab ID: 479661-016 **Received:** 02/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/17/23
Dln Fac: 1.000 **Analyzed:** 02/18/23

479661-016 Analyte	Result	RL	Units	Qual
Lead	**290**	0.25	ug/ft2	b

Type: BLANK **Batch#:** 307903 **Analysis:** EPA 6010B
Lab ID: QC1046520 **Prepared:** 02/17/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 02/18/23
Dln Fac: 1.000 **Prep:** EPA 3050B

QC1046520 Analyte	Result	RL	Units	Qual
Lead	ND	0.25	ug/ft2	b

Legend
ND: Not Detected
RL: Reporting Limit
b: See narrative

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 479661 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 307903 **Analysis:** EPA 6010B

Lab ID: QC1046521 **Prepared:** 02/17/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 02/18/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1046521 Analyte	Spiked	Result	%REC	Limits	Units	Qual
Lead	100.0	106.3	106	80-120	ug/ft2	b

Type: BSD **Batch#:** 307903 **Analysis:** EPA 6010B

Lab ID: QC1046522 **Prepared:** 02/17/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 02/18/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1046522 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
Lead	100.0	103.5	104	80-120	ug/ft2	3	20	b

Legend

RPD: Relative Percent Difference

b: See narrative

REPORTING SUMMARY FOR 479661 METALS Wipe
Enthalpy Analytical - Orange

Lab ID	Inst ID	Analyzed	IDF	PB
479661-002	MET06	02/18/23 13:46	1.0	✓
479661-003	MET06	02/18/23 13:49	1.0	✓
479661-006	MET06	02/18/23 13:53	1.0	✓
479661-008	MET06	02/18/23 13:56	1.0	✓
479661-010	MET06	02/18/23 13:59	1.0	✓
479661-013	MET06	02/18/23 14:03	1.0	✓
479661-015	MET06	02/18/23 14:06	1.0	✓
479661-016	MET06	02/18/23 14:09	1.0	✓
QC1046520	MET06	02/18/23 13:20	1.0	✓
QC1046521	MET06	02/18/23 13:23	1.0	✓
QC1046522	MET06	02/18/23 13:26	1.0	✓

Enthalpy Sequence Summary for Sequence 483071211

Instrument: MET06 Begun: 02/18/23 10:51

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met06_master011	ICALBLK	CALBLANK			02/18/23 10:51	1.0	1	
002	met06_master011	ICAL	L1			02/18/23 10:54	1.0	2 1	
003	met06_master011	ICAL	L2			02/18/23 10:58	1.0	3 1	
004	met06_master011	ICAL	L3			02/18/23 11:01	1.0	4 1	
005	met06_master011	ICAL	L4			02/18/23 11:04	1.0	5 1	
006	met06_master011	ICAL	L5			02/18/23 11:08	1.0	6 1	
007	met06_master011	ICAL	L6			02/18/23 11:11	1.0	7 1	
008	met06_master011	ICAL	L7			02/18/23 11:14	1.0	8 1	
009	met06_master011	ICAL	L8			02/18/23 11:18	1.0	9 1	
010	met06_master011	XICV				02/18/23 11:21	1.0	10 1	
011	met06_master011	ICV				02/18/23 11:26	1.0	10 1	
012	met06_master011	CRI				02/18/23 11:29	1.0	11 1	
013	met06_master011	ICB				02/18/23 11:32	1.0	1	
014	met06_master011	ICSA				02/18/23 11:36	1.0	12 1	6:MGASMGCO3=1300
015	met06_master011	ICSAB				02/18/23 11:39	1.0	13 1	6:MGASMGCO3=1400
016	met06_master011	BLANK	QC1046368	Soil	307858	02/18/23 11:42	1.0	1	
017	met06_master011	LCS	QC1046369	Soil	307858	02/18/23 11:46	1.0	1	
018	met06_master011	SAMPLE	478858-001	Soil	307858	02/18/23 11:49	1.0	1	2:FE=100
019	met06_master011	SAMPLE	479517-001	Soil	307858	02/18/23 11:52	1.0	1	2:FE=140
020	met06_master011	SAMPLE	479564-001	Miscell.	307858	02/18/23 11:56	1.0	1	3:FE=160
021	met06_master011	SAMPLE	479564-002	Miscell.	307858	02/18/23 11:59	1.0	1	2:FE=110
022	met06_master011	SAMPLE	479564-003	Miscell.	307858	02/18/23 12:02	1.0	1	3:FE=130
023	met06_master011	SAMPLE	479564-004	Miscell.	307858	02/18/23 12:06	1.0	1	3:FE=130
024	met06_master011	SAMPLE	479564-017	Soil	307858	02/18/23 12:09	1.0	1	3:FE=170
025	met06_master011	SAMPLE	479564-018	Soil	307858	02/18/23 12:12	1.0	1	3:FE=200
026	met06_master011	CCV				02/18/23 12:16	1.0	10 1	
027	met06_master011	CCB				02/18/23 12:19	1.0	1	
028	met06_master011	SAMPLE	479585-009	Soil	307858	02/18/23 12:22	1.0	1	2:FE=150
029	met06_master011	SAMPLE	479585-010	Soil	307858	02/18/23 12:26	1.0	1	2:FE=170
030	met06_master011	SAMPLE	479585-011	Soil	307858	02/18/23 12:29	1.0	1	2:FE=180
031	met06_master011	SAMPLE	479585-012	Soil	307858	02/18/23 12:32	1.0	1	2:FE=160
032	met06_master011	MSS	479590-001	Soil	307858	02/18/23 12:36	1.0	1	3:FEASFE2O3=100
033	met06_master011	MS	QC1046370	Soil	307858	02/18/23 12:39	1.0	1	4:FEASFE2O3=110
034	met06_master011	MSD	QC1046371	Soil	307858	02/18/23 12:42	1.0	1	4:FEASFE2O3=120
035	met06_master011	PDS	QC1046512	Soil	307858	02/18/23 12:46	1.0	1	3:FEASFE2O3=100
036	met06_master011	SAMPLE	479590-002	Soil	307858	02/18/23 12:49	1.0	1	2:FE=85
037	met06_master011	SAMPLE	479590-003	Soil	307858	02/18/23 12:52	1.0	1	2:FE=100
038	met06_master011	CCV				02/18/23 12:56	1.0	10 1	
039	met06_master011	CCB				02/18/23 12:59	1.0	1	
040	met06_master011	SAMPLE	479590-004	Soil	307858	02/18/23 13:02	1.0	1	1:FE=75
041	met06_master011	SAMPLE	479590-005	Soil	307858	02/18/23 13:06	1.0	1	3:FE=190
042	met06_master011	SAMPLE	479590-006	Soil	307858	02/18/23 13:09	1.0	1	3:FE=150
043	met06_master011	SAMPLE	479631-001	Soil	307858	02/18/23 13:12	1.0	1	2:FE=100
044	met06_master011	SAMPLE	479631-002	Soil	307858	02/18/23 13:16	1.0	1	2:FE=110
045	met06_master011	BLANK	QC1046520	Wipe	307903	02/18/23 13:20	1.0	1	
046	met06_master011	BS	QC1046521	Wipe	307903	02/18/23 13:23	1.0	1	
047	met06_master011	BSD	QC1046522	Wipe	307903	02/18/23 13:26	1.0	1	
048	met06_master011	SAMPLE	479660-002	Wipe	307903	02/18/23 13:30	1.0	1	1:FE=84
049	met06_master011	SAMPLE	479660-004	Wipe	307903	02/18/23 13:33	1.0	1	2:FE=82
050	met06_master011	CCV				02/18/23 13:36	1.0	10 1	

Enthalpy Sequence Summary for Sequence 483071211

Instrument: MET06 Begun: 02/18/23 10:51

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
051	met06_master011	CCB				02/18/23 13:39	1.0	1	
052	met06_master011	SAMPLE	479660-006	Wipe	307903	02/18/23 13:43	1.0	1	
053	met06_master011	SAMPLE	479661-002	Wipe	307903	02/18/23 13:46	1.0	1	1:FE=52
054	met06_master011	SAMPLE	479661-003	Wipe	307903	02/18/23 13:49	1.0	1	1:FE=49
055	met06_master011	SAMPLE	479661-006	Wipe	307903	02/18/23 13:53	1.0	1	1:FE=130
056	met06_master011	SAMPLE	479661-008	Wipe	307903	02/18/23 13:56	1.0	1	1:FE=77
057	met06_master011	SAMPLE	479661-010	Wipe	307903	02/18/23 13:59	1.0	1	1:FE=110
058	met06_master011	SAMPLE	479661-013	Wipe	307903	02/18/23 14:03	1.0	1	1:FE=96
059	met06_master011	SAMPLE	479661-015	Wipe	307903	02/18/23 14:06	1.0	1	1:FE=44
060	met06_master011	SAMPLE	479661-016	Wipe	307903	02/18/23 14:09	1.0	1	1:FE=46
061	met06_master011	BLANK	QC1046352	Soil	307849	02/18/23 14:13	1.0	1	
062	met06_master011	CCV				02/18/23 14:16	1.0	10 1	
063	met06_master011	CCB				02/18/23 14:19	1.0	1	
064	met06_master011	LCS	QC1046353	Soil	307849	02/18/23 14:23	1.0	1	
065	met06_master011	MSS	479514-043	Soil	307849	02/18/23 14:26	1.0	1	4:FEASFE2O3=150
066	met06_master011	MS	QC1046354	Soil	307849	02/18/23 14:29	1.0	1	4:FEASFE2O3=160
067	met06_master011	MSD	QC1046355	Soil	307849	02/18/23 14:32	1.0	1	4:FEASFE2O3=150
068	met06_master011	PDS	QC1046515	Soil	307849	02/18/23 14:36	1.0	1	4:FEASFE2O3=150
069	met06_master011	SAMPLE	479514-044	Soil	307849	02/18/23 14:39	1.0	1	1:FE=75
070	met06_master011	SAMPLE	479514-045	Soil	307849	02/18/23 14:42	1.0	1	3:FE=240
071	met06_master011	SAMPLE	479514-046	Soil	307849	02/18/23 14:46	1.0	1	3:FE=200
072	met06_master011	SAMPLE	479518-001	Soil	307849	02/18/23 14:49	1.0	1	2:FE=240
073	met06_master011	SAMPLE	479562-001	Soil	307849	02/18/23 14:52	1.0	1	3:FE=250
074	met06_master011	CCV				02/18/23 14:56	1.0	10 1	
075	met06_master011	CCB				02/18/23 14:59	1.0	1	
076	met06_master011	SAMPLE	479562-002	Soil	307849	02/18/23 15:02	1.0	1	2:FE=200
077	met06_master011	SAMPLE	479562-003	Soil	307849	02/18/23 15:06	1.0	1	2:FE=220
078	met06_master011	SAMPLE	479562-004	Soil	307849	02/18/23 15:09	1.0	1	3:FE=220
079	met06_master011	SAMPLE	479564-019	Soil	307849	02/18/23 15:12	1.0	1	3:FE=230
080	met06_master011	SAMPLE	479564-020	Soil	307849	02/18/23 15:16	1.0	1	3:FE=220
081	met06_master011	SAMPLE	479571-001	Soil	307849	02/18/23 15:19	1.0	1	2:FE=260
082	met06_master011	SAMPLE	479573-001	Miscell.	307849	02/18/23 15:22	1.0	1	1:FE=60
083	met06_master011	SAMPLE	479607-001	Miscell.	307849	02/18/23 15:26	1.0	1	1:FE=26
084	met06_master011	SAMPLE	479625-001	Soil	307849	02/18/23 15:29	1.0	1	2:AL=180
085	met06_master011	SAMPLE	479625-002	Soil	307849	02/18/23 15:32	1.0	1	2:FE=140
086	met06_master011	CCV				02/18/23 15:35	1.0	10 1	
087	met06_master011	CCB				02/18/23 15:39	1.0	1	
088	met06_master011	SAMPLE	479633-004	Soil	307849	02/18/23 15:42	1.0	1	2:FE=160
089	met06_master011	SAMPLE	479652-001	Soil	307849	02/18/23 15:45	1.0	1	2:FE=110
090	met06_master011	SAMPLE	479652-002	Soil	307849	02/18/23 15:49	1.0	1	3:FE=180
091	met06_master011	SAMPLE	479665-001	Miscell.	307849	02/18/23 15:52	1.0	1	2:CA=1800
092	met06_master011	SAMPLE	479388-006	Soil	307755	02/18/23 15:55	10.0	1	
093	met06_master011	SAMPLE	479388-014	Soil	307758	02/18/23 15:59	10.0	1	
094	met06_master011	CCV				02/18/23 16:02	1.0	10 1	
095	met06_master011	CCB				02/18/23 16:05	1.0	1	

SBW 02/20/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 095.

Standards Used:

1=S13369 2=S17856 3=S17855 4=S17854 5=S17853 6=S17852 7=S17851 8=S17857 9=S17858 10=S17960 11=S17918 12=S17605 13=S17891

Enthalpy Internal Standard Summary for Sequence 483071211

Date:	02/18/23	Reference:	met06_master011
Sequence:	MET06 02/18/23	Analyzed:	02/18/23 10:51

#	Type	Sample ID	Y H	Y A	Y R
		ICALBLK STD	24031400	521757	302682
		LOWER LIMIT	7209420	156527	90805
		UPPER LIMIT	48062800	1043514	605364
013	ICB		24119900	525042	299613
014	ICSA		21486800	456907	273152
015	ICSAB		21795700	466039	274994
016	BLANK	QC1046368	24676000	528170	303694
017	LCS	QC1046369	23450200	506254	290548
018	SAMPLE	478858-001	23384300	506729	293628
019	SAMPLE	479517-001	22996600	492292	288398
020	SAMPLE	479564-001	23504300	501678	295214
021	SAMPLE	479564-002	23401500	499284	295195
022	SAMPLE	479564-003	23463300	505546	294424
023	SAMPLE	479564-004	23527100	508199	297875
024	SAMPLE	479564-017	23152600	495149	287867
025	SAMPLE	479564-018	22881400	485738	285395
026	CCV		23028100	489606	283412
027	CCB		24358200	518398	295595
028	SAMPLE	479585-009	23209800	498625	287931
029	SAMPLE	479585-010	23253700	500406	292676
030	SAMPLE	479585-011	22924400	493078	290960
031	SAMPLE	479585-012	23536800	502000	293714
032	MSS	479590-001	23238800	502242	289556
033	MS	QC1046370	22937400	498189	285861
034	MSD	QC1046371	23034000	499761	284948
035	PDS	QC1046512	23259300	502514	286923
036	SAMPLE	479590-002	22572900	502892	286308
037	SAMPLE	479590-003	23070100	505511	289855
038	CCV		22890600	500037	283058
039	CCB		24105700	526834	292660
040	SAMPLE	479590-004	23305400	507392	291516
041	SAMPLE	479590-005	22702100	495507	287532
042	SAMPLE	479590-006	22604100	493714	285933
043	SAMPLE	479631-001	23063400	500059	290835
044	SAMPLE	479631-002	23448600	504329	295276
045	BLANK	QC1046520	23299500	495915	285718
046	BS	QC1046521	22426400	490291	279225
047	BSD	QC1046522	23127900	502870	281952
048	SAMPLE	479660-002	22982000	489757	285859
049	SAMPLE	479660-004	23048300	491445	283920
050	CCV		23067000	507558	284183
051	CCB		24224200	534032	295972
052	SAMPLE	479660-006	22889900	483208	292958
053	SAMPLE	479661-002	22667700	479311	281709
054	SAMPLE	479661-003	22436000	480647	281582
055	SAMPLE	479661-006	22336500	475477	282101
056	SAMPLE	479661-008	22634900	482295	283031
057	SAMPLE	479661-010	22488600	477451	281778
058	SAMPLE	479661-013	23148800	480173	284601
059	SAMPLE	479661-015	22858100	483940	286043
060	SAMPLE	479661-016	22836400	482106	283518

Enthalpy Internal Standard Summary for Sequence 483071211

Date:	02/18/23	Reference:	met06_master011
Sequence:	MET06 02/18/23	Analyzed:	02/18/23 10:51

#	Type	Sample ID	Y H	Y A	Y R
061	BLANK	QC1046352	23909300	522567	294982
062	CCV		22752800	498980	282964
063	CCB		24010700	521997	296302
064	LCS	QC1046353	22988500	505321	284781
065	MSS	479514-043	22928700	492233	285412
066	MS	QC1046354	22043200	477758	279209
068	PDS	QC1046515	22857600	496015	284629
069	SAMPLE	479514-044	22981000	497647	285269
070	SAMPLE	479514-045	22156900	477688	280851
071	SAMPLE	479514-046	22369100	483232	280288
072	SAMPLE	479518-001	22218000	482906	277950
073	SAMPLE	479562-001	21823500	470366	276465
074	CCV		22652000	495344	282015
075	CCB		23625000	516704	292313
076	SAMPLE	479562-002	22320700	479039	279028
077	SAMPLE	479562-003	21944100	479923	278661
078	SAMPLE	479562-004	21693400	468926	275181
079	SAMPLE	479564-019	22390700	490374	279710
080	SAMPLE	479564-020	22533000	495936	283107
081	SAMPLE	479571-001	22480200	495954	283698
082	SAMPLE	479573-001	20791000	456626	264096
083	SAMPLE	479607-001	23150200	508823	284585
084	SAMPLE	479625-001	21949700	487030	275413
085	SAMPLE	479625-002	22473900	492361	279442
086	CCV		22398400	490863	275793
087	CCB		23782700	518518	290298
088	SAMPLE	479633-004	22279800	488472	282166
089	SAMPLE	479652-001	22716800	486190	281596
090	SAMPLE	479652-002	22133800	474635	277262
091	SAMPLE	479665-001	20446400	441552	259518
092	SAMPLE	479388-006	24964700	550574	295715
093	SAMPLE	479388-014	24817000	541554	298511
094	CCV		22509900	481245	276282
095	CCB		23752600	516990	286705

ENTHALPY INITIAL CALIBRATION FOR 479661 METALS Wipe: EPA 6010B

Instrument:	MET06		
Calibration #:	483071211001	Date:	18-FEB-2023 10:51
Units:	mg/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	met06_master011	483071211002	L1	18-FEB-2023 10:54	S17856, S13369 (100X)
L2	met06_master011	483071211003	L2	18-FEB-2023 10:58	S17855, S13369 (100X)
L3	met06_master011	483071211004	L3	18-FEB-2023 11:01	S17854, S13369 (100X)
L4	met06_master011	483071211005	L4	18-FEB-2023 11:04	S17853, S13369 (100X)
L5	met06_master011	483071211006	L5	18-FEB-2023 11:08	S17852, S13369 (100X)
L6	met06_master011	483071211007	L6	18-FEB-2023 11:11	S17851, S13369 (100X)

Analyte	Ch	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Flags
Lead	A	WB1K	0.00517	36.5986		0.0192	1.000		7	0.995	

Instrument amount = a0 + (response × a1) + (response² × a2)
WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	-0.011	0.0138	0.0276	0.0291	0.0284	0.0270

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Lead	A	0.0033	15	0.0100	2	0.1000	6	1.0000	7	5.0000	4	10.000	-1

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06		
Calnum:	483071211001	Cal Date:	18-FEB-2023

- ICV 483071211011 (18-FEB-2023) stds: S17960, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	1.034	mg/l	3	10	

ENTHALPY INSTRUMENT BLANK FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211013	File:	met06_master011	Time:	18-FEB-2023 11:32
Cal:	483071211001	Caldate:	18-FEB-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	24119900	0.37
Yttrium	A	521757	525042	0.63
Yttrium	R	302682	299613	-1.01

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211014	File:	met06_master011	Time:	18-FEB-2023 11:36
Cal:	483071211001	Caldate:	18-FEB-2023		

Standards: S17605, S13369 (100X)

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.01819]	0.003333	mg/l	a- ***

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Iron	A	160.0	151.5	mg/l	95	
Aluminum	R	400.0	394.6	mg/l	99	
Calcium	R	400.0	392.6	mg/l	98	
Magnesium	R	400.0	387.0	mg/l	97	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	21486800	-10.59
Yttrium	A	521757	456907	-12.43
Yttrium	R	302682	273152	-9.76

-=low bias a=ICSA

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211015	File:	met06_master011	Time:	18-FEB-2023 11:39
Cal:	483071211001	Caldate:	18-FEB-2023		

Standards: S17891, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	1.024	mg/l	2	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	21795700	-9.30
Yttrium	A	521757	466039	-10.68
Yttrium	R	302682	274994	-9.15

ENTHALPY CONTINUING CALIBRATION FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211038	File:	met06_master011	Time:	18-FEB-2023 12:56
Cal:	483071211001	Caldate:	18-FEB-2023		

Standards: S17960, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0192	0.0283	1.000	1.040	mg/l	4	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	22890600	-4.75
Yttrium	A	521757	500037	-4.16
Yttrium	R	302682	283058	-6.48

ENTHALPY INSTRUMENT BLANK FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211039	File:	met06_master011	Time:	18-FEB-2023 12:59
Cal:	483071211001	Caldate:	18-FEB-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	24105700	0.31
Yttrium	A	521757	526834	0.97
Yttrium	R	302682	292660	-3.31

ENTHALPY CONTINUING CALIBRATION FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211050	File:	met06_master011	Time:	18-FEB-2023 13:36
Cal:	483071211001	Caldate:	18-FEB-2023		

Standards: S17960, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0192	0.0283	1.000	1.039	mg/l	4	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	23067000	-4.01
Yttrium	A	521757	507558	-2.72
Yttrium	R	302682	284183	-6.11

ENTHALPY INSTRUMENT BLANK FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211051	File:	met06_master011	Time:	18-FEB-2023 13:39
Cal:	483071211001	Caldate:	18-FEB-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	[0.001910]	0.003333	---	mg/l	!CCB

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	24224200	0.80
Yttrium	A	521757	534032	2.35
Yttrium	R	302682	295972	-2.22

!=warning CCB=instrument blank

ENTHALPY CONTINUING CALIBRATION FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211062.1	File:	met06_master011	Time:	18-FEB-2023 14:16
Cal:	483071211001	Caldate:	18-FEB-2023		

Standards: S17960, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0192	0.0285	1.000	1.048	mg/l	5	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	22752800	-5.32
Yttrium	A	521757	498980	-4.37
Yttrium	R	302682	282964	-6.51

ENTHALPY INSTRUMENT BLANK FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211063.1	File:	met06_master011	Time:	18-FEB-2023 14:19
Cal:	483071211001	Caldate:	18-FEB-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	24010700	-0.09
Yttrium	A	521757	521997	0.05
Yttrium	R	302682	296302	-2.11

SAMPLE PREPARATION SUMMARY

Batch # : 307903 Analysis : ICP
Started By : JCP Prep Date : 17-FEB-2023 16:38 Finished By : JCP
Method : 3050B Units : ft2
Spike #1 ID : S17422 Spike #2 ID : S17423

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
479660-002		Wipe	1	50	1	50.0						6010	
479660-004		Wipe	1	50	1	50.0						6010	
479660-006		Wipe	1	50	1	50.0						6010	
479661-002		Wipe	1	50	1	50.0						6010	
479661-003		Wipe	1	50	1	50.0						6010	
479661-006		Wipe	1	50	1	50.0						6010	
479661-008		Wipe	1	50	1	50.0						6010	
479661-010		Wipe	1.02	50	1	49.02						6010	
479661-013		Wipe	1.02	50	1	49.02						6010	
479661-015		Wipe	1	50	1	50.0						6010	
479661-016		Wipe	1	50	1	50.0						6010	
QC1046520	BLANK	Wipe	1	50	1	50.0						ICP	
QC1046521	BS	Wipe	1	50	1	50.0		1	1			ICP	
QC1046522	BSD	Wipe	1	50	1	50.0		1	1			ICP	

Analyst: SBW Date: 02/20/23 Reviewer: MCP Date: 02/20/23

ICP Prep Log for Soils

Initials: J.P Prep Method: 3050B QC Batch #: 307903 Therm ID/Corr Factor: 94265B / 1.0C

Prep Start, Date/Time: 2/17/23 - 16:25 Prep End, Date/Time: 2/17/23 17:38 HotBlock Temp (Obs/Cor), °C: 95°C / 95°C

HotBlock ID: 3

Sample ID	Bottle #	Sample pH (Water Only)	Sample Appearance	Initial Weight (g)	Bal. ID	Final Vol (mL)	Digestion Tube Lot#	Comment
Blank	-----	-----	-----	1 wipe	N/A	50-1	23 Hg tubes	
LCS	-----	-----	-----					
LCSD			wipe					
479660-2								
4								
6								
661-2								
3								
6								
8								
10								
13								
15								
16								
			2/17/23					

Hydrochloric Acid ID: ~~10-1~~ J.P 2/17/23 5-1-22370076

Nitric Acid ID: 5 10-1 - 20220964F

H_2O_2 ID: 3-1 223401

LCS Spike ID: 1-1 17422, 517423

MS/MSD Spike ID: N/A

ICP Raw Data

Enthalpy Sequence Summary for Sequence 483071211

Instrument: MET06 Begun: 02/18/23 10:51

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met06_master011	ICALBLK	CALBLANK			02/18/23 10:51	1.0	1	
002	met06_master011	ICAL	L1			02/18/23 10:54	1.0	2 1	
003	met06_master011	ICAL	L2			02/18/23 10:58	1.0	3 1	
004	met06_master011	ICAL	L3			02/18/23 11:01	1.0	4 1	
005	met06_master011	ICAL	L4			02/18/23 11:04	1.0	5 1	
006	met06_master011	ICAL	L5			02/18/23 11:08	1.0	6 1	
007	met06_master011	ICAL	L6			02/18/23 11:11	1.0	7 1	
008	met06_master011	ICAL	L7			02/18/23 11:14	1.0	8 1	
009	met06_master011	ICAL	L8			02/18/23 11:18	1.0	9 1	
010	met06_master011	XICV				02/18/23 11:21	1.0	10 1	
011	met06_master011	ICV				02/18/23 11:26	1.0	10 1	
012	met06_master011	CRI				02/18/23 11:29	1.0	11 1	
013	met06_master011	ICB				02/18/23 11:32	1.0	1	
014	met06_master011	ICSA				02/18/23 11:36	1.0	12 1	6:MGASMGCO3=1300
015	met06_master011	ICSAB				02/18/23 11:39	1.0	13 1	6:MGASMGCO3=1400
016	met06_master011	BLANK	QC1046368	Soil	307858	02/18/23 11:42	1.0	1	
017	met06_master011	LCS	QC1046369	Soil	307858	02/18/23 11:46	1.0	1	
018	met06_master011	SAMPLE	478858-001	Soil	307858	02/18/23 11:49	1.0	1	2:FE=100
019	met06_master011	SAMPLE	479517-001	Soil	307858	02/18/23 11:52	1.0	1	2:FE=140
020	met06_master011	SAMPLE	479564-001	Miscell.	307858	02/18/23 11:56	1.0	1	3:FE=160
021	met06_master011	SAMPLE	479564-002	Miscell.	307858	02/18/23 11:59	1.0	1	2:FE=110
022	met06_master011	SAMPLE	479564-003	Miscell.	307858	02/18/23 12:02	1.0	1	3:FE=130
023	met06_master011	SAMPLE	479564-004	Miscell.	307858	02/18/23 12:06	1.0	1	3:FE=130
024	met06_master011	SAMPLE	479564-017	Soil	307858	02/18/23 12:09	1.0	1	3:FE=170
025	met06_master011	SAMPLE	479564-018	Soil	307858	02/18/23 12:12	1.0	1	3:FE=200
026	met06_master011	CCV				02/18/23 12:16	1.0	10 1	
027	met06_master011	CCB				02/18/23 12:19	1.0	1	
028	met06_master011	SAMPLE	479585-009	Soil	307858	02/18/23 12:22	1.0	1	2:FE=150
029	met06_master011	SAMPLE	479585-010	Soil	307858	02/18/23 12:26	1.0	1	2:FE=170
030	met06_master011	SAMPLE	479585-011	Soil	307858	02/18/23 12:29	1.0	1	2:FE=180
031	met06_master011	SAMPLE	479585-012	Soil	307858	02/18/23 12:32	1.0	1	2:FE=160
032	met06_master011	MSS	479590-001	Soil	307858	02/18/23 12:36	1.0	1	3:FEASFE2O3=100
033	met06_master011	MS	QC1046370	Soil	307858	02/18/23 12:39	1.0	1	4:FEASFE2O3=110
034	met06_master011	MSD	QC1046371	Soil	307858	02/18/23 12:42	1.0	1	4:FEASFE2O3=120
035	met06_master011	PDS	QC1046512	Soil	307858	02/18/23 12:46	1.0	1	3:FEASFE2O3=100
036	met06_master011	SAMPLE	479590-002	Soil	307858	02/18/23 12:49	1.0	1	2:FE=85
037	met06_master011	SAMPLE	479590-003	Soil	307858	02/18/23 12:52	1.0	1	2:FE=100
038	met06_master011	CCV				02/18/23 12:56	1.0	10 1	
039	met06_master011	CCB				02/18/23 12:59	1.0	1	
040	met06_master011	SAMPLE	479590-004	Soil	307858	02/18/23 13:02	1.0	1	1:FE=75
041	met06_master011	SAMPLE	479590-005	Soil	307858	02/18/23 13:06	1.0	1	3:FE=190
042	met06_master011	SAMPLE	479590-006	Soil	307858	02/18/23 13:09	1.0	1	3:FE=150
043	met06_master011	SAMPLE	479631-001	Soil	307858	02/18/23 13:12	1.0	1	2:FE=100
044	met06_master011	SAMPLE	479631-002	Soil	307858	02/18/23 13:16	1.0	1	2:FE=110
045	met06_master011	BLANK	QC1046520	Wipe	307903	02/18/23 13:20	1.0	1	
046	met06_master011	BS	QC1046521	Wipe	307903	02/18/23 13:23	1.0	1	
047	met06_master011	BSD	QC1046522	Wipe	307903	02/18/23 13:26	1.0	1	
048	met06_master011	SAMPLE	479660-002	Wipe	307903	02/18/23 13:30	1.0	1	1:FE=84
049	met06_master011	SAMPLE	479660-004	Wipe	307903	02/18/23 13:33	1.0	1	2:FE=82
050	met06_master011	CCV				02/18/23 13:36	1.0	10 1	

Enthalpy Sequence Summary for Sequence 483071211

Instrument: MET06 Begun: 02/18/23 10:51
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
051	met06_master011	CCB				02/18/23 13:39	1.0	1	
052	met06_master011	SAMPLE	479660-006	Wipe	307903	02/18/23 13:43	1.0	1	
053	met06_master011	SAMPLE	479661-002	Wipe	307903	02/18/23 13:46	1.0	1	1:FE=52
054	met06_master011	SAMPLE	479661-003	Wipe	307903	02/18/23 13:49	1.0	1	1:FE=49
055	met06_master011	SAMPLE	479661-006	Wipe	307903	02/18/23 13:53	1.0	1	1:FE=130
056	met06_master011	SAMPLE	479661-008	Wipe	307903	02/18/23 13:56	1.0	1	1:FE=77
057	met06_master011	SAMPLE	479661-010	Wipe	307903	02/18/23 13:59	1.0	1	1:FE=110
058	met06_master011	SAMPLE	479661-013	Wipe	307903	02/18/23 14:03	1.0	1	1:FE=96
059	met06_master011	SAMPLE	479661-015	Wipe	307903	02/18/23 14:06	1.0	1	1:FE=44
060	met06_master011	SAMPLE	479661-016	Wipe	307903	02/18/23 14:09	1.0	1	1:FE=46
061	met06_master011	BLANK	QC1046352	Soil	307849	02/18/23 14:13	1.0	1	
062	met06_master011	CCV				02/18/23 14:16	1.0	10 1	
063	met06_master011	CCB				02/18/23 14:19	1.0	1	
064	met06_master011	LCS	QC1046353	Soil	307849	02/18/23 14:23	1.0	1	
065	met06_master011	MSS	479514-043	Soil	307849	02/18/23 14:26	1.0	1	4:FEASFE2O3=150
066	met06_master011	MS	QC1046354	Soil	307849	02/18/23 14:29	1.0	1	4:FEASFE2O3=160
067	met06_master011	MSD	QC1046355	Soil	307849	02/18/23 14:32	1.0	1	4:FEASFE2O3=150
068	met06_master011	PDS	QC1046515	Soil	307849	02/18/23 14:36	1.0	1	4:FEASFE2O3=150
069	met06_master011	SAMPLE	479514-044	Soil	307849	02/18/23 14:39	1.0	1	1:FE=75
070	met06_master011	SAMPLE	479514-045	Soil	307849	02/18/23 14:42	1.0	1	3:FE=240
071	met06_master011	SAMPLE	479514-046	Soil	307849	02/18/23 14:46	1.0	1	3:FE=200
072	met06_master011	SAMPLE	479518-001	Soil	307849	02/18/23 14:49	1.0	1	2:FE=240
073	met06_master011	SAMPLE	479562-001	Soil	307849	02/18/23 14:52	1.0	1	3:FE=250
074	met06_master011	CCV				02/18/23 14:56	1.0	10 1	
075	met06_master011	CCB				02/18/23 14:59	1.0	1	
076	met06_master011	SAMPLE	479562-002	Soil	307849	02/18/23 15:02	1.0	1	2:FE=200
077	met06_master011	SAMPLE	479562-003	Soil	307849	02/18/23 15:06	1.0	1	2:FE=220
078	met06_master011	SAMPLE	479562-004	Soil	307849	02/18/23 15:09	1.0	1	3:FE=220
079	met06_master011	SAMPLE	479564-019	Soil	307849	02/18/23 15:12	1.0	1	3:FE=230
080	met06_master011	SAMPLE	479564-020	Soil	307849	02/18/23 15:16	1.0	1	3:FE=220
081	met06_master011	SAMPLE	479571-001	Soil	307849	02/18/23 15:19	1.0	1	2:FE=260
082	met06_master011	SAMPLE	479573-001	Miscell.	307849	02/18/23 15:22	1.0	1	1:FE=60
083	met06_master011	SAMPLE	479607-001	Miscell.	307849	02/18/23 15:26	1.0	1	1:FE=26
084	met06_master011	SAMPLE	479625-001	Soil	307849	02/18/23 15:29	1.0	1	2:AL=180
085	met06_master011	SAMPLE	479625-002	Soil	307849	02/18/23 15:32	1.0	1	2:FE=140
086	met06_master011	CCV				02/18/23 15:35	1.0	10 1	
087	met06_master011	CCB				02/18/23 15:39	1.0	1	
088	met06_master011	SAMPLE	479633-004	Soil	307849	02/18/23 15:42	1.0	1	2:FE=160
089	met06_master011	SAMPLE	479652-001	Soil	307849	02/18/23 15:45	1.0	1	2:FE=110
090	met06_master011	SAMPLE	479652-002	Soil	307849	02/18/23 15:49	1.0	1	3:FE=180
091	met06_master011	SAMPLE	479665-001	Miscell.	307849	02/18/23 15:52	1.0	1	2:CA=1800
092	met06_master011	SAMPLE	479388-006	Soil	307755	02/18/23 15:55	10.0	1	
093	met06_master011	SAMPLE	479388-014	Soil	307758	02/18/23 15:59	10.0	1	
094	met06_master011	CCV				02/18/23 16:02	1.0	10 1	
095	met06_master011	CCB				02/18/23 16:05	1.0	1	

SBW 02/20/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 095.

Standards Used:
1=S13369 2=S17856 3=S17855 4=S17854 5=S17853 6=S17852 7=S17851 8=S17857 9=S17858 10=S17960 11=S17918 12=S17605 13=S17891

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	479661-002	Client ID:	ARCH-C5E-EXT-1 TO 2-230216-L-WF
Seqnum:	483071211053.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master011	Batch:	307903	Time:	18-FEB-2023 13:46
Cal:	483071211001	Caldate:	18-FEB-2023		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	3.804	190	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	521757	479311	-8.14

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: 479661-002,307903 | Sample Type: Unknown Sample

Measure Date: 2023-02-18 13:46:33 | Recalculation Date: | State: Measured | Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	30222.000000	5772.9400000	4422.4700000	4599.4300000	6167.3700000	40975.200000	5129.5300000
Int RSD	*0.70433459*	*1.48098543*	*1.26619514*	*0.70689629*	*0.23645087*	*1.82489896*	*0.27734900*
Int SD	*212.86400000*	*85.49640000*	*55.99710000*	*32.51320000*	*14.58280000*	*747.75600000*	*14.22670000*
RelInt Mean	0.00003872	0.01870490	-0.00366910	0.00178208	0.00316090	0.14532700	0.00180553
RelInt RSD	*29.01752737*	*2.88366150*	*3.13480145*	*3.23386717*	*0.46251384*	*2.31837167*	*2.96836386*
RelInt SD	*0.00001123*	*0.00053939*	*0.00011502*	*0.00005763*	*0.00001462*	*0.00336922*	*0.00005359*
Conc Mean	<-0.00052647[mg/l]	2.13121000[mg/l]	<-0.13438600[mg/l]	0.01299740[mg/l]	0.01171450[mg/l]	10.12040000[mg/l]	0.01239190[mg/l]
Conc RSD	*78.74003035*	*3.14657870*	*3.30201807*	*4.84853124*	*0.49277733*	*2.33406782*	*3.18692049*
Conc SD	*0.00041455[mg/l]*	*0.06706020[mg/l]*	*0.00443745[mg/l]*	*0.00063018[mg/l]*	*0.00005773[mg/l]*	*0.23621700[mg/l]*	*0.00039492[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	6188.6700000	155927	7382800	95.17950000	4773.7000000	427023	3602.1700000
Int RSD	*0.34017325*	*0.60459061*	*0.43523054*	*39.14214721*	*1.60183505*	*0.47334921*	*0.41534131*
Int SD	*21.05220000*	*942.72000000*	*32132.200000*	*37.25530000*	*76.46680000*	*2021.3100000*	*14.96130000*
RelInt Mean	0.00511827	0.00575315	15.60210000	0.00065808	0.01504020	0.89134200	-0.00195897
RelInt RSD	*1.66820039*	*0.44103491*	*1.64081758*	*6.65476836*	*2.58987248*	*1.29024549*	*3.37062334*
RelInt SD	*0.00008538*	*0.00002537*	*0.25600200*	*0.00004379*	*0.00038952*	*0.01150050*	*0.00006603*
Conc Mean	0.03276560[mg/l]	0.15304900[mg/l]	52.42820000[mg/l]	0.79351300[mg/l]	4.45785000[mg/l]	0.50308000[mg/l]	<-0.01527730[mg/l]
Conc RSD	*1.71289401*	*0.48078328*	*1.64111490*	*5.33576640*	*2.53895936*	*1.29093981*	*3.27646901*
Conc SD	*0.00056124[mg/l]*	*0.00073583[mg/l]*	*0.86040700[mg/l]*	*0.04234000[mg/l]*	*0.11318300[mg/l]*	*0.00649446[mg/l]*	*0.00050056[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	45399.800000	6251.5500000	54380.500000	4263.8600000	6444.3400000	8022.5700000	5378.9100000
Int RSD	*1.31452121*	*0.26118643*	*0.80358952*	*0.89371602*	*0.20245673*	*0.20276919*	*3.20985107*
Int SD	*596.79000000*	*16.32820000*	*436.99600000*	*38.10680000*	*13.04700000*	*16.26730000*	*172.65500000*
RelInt Mean	0.14820400	0.00368460	0.10385300	0.00000834	0.00462849	0.00059005	0.01812850
RelInt RSD	*1.75595800*	*1.99794007*	*2.15777108*	*1245.8056960*	*0.90330108*	*13.69482063*	*6.35469013*
RelInt SD	*0.00260240*	*0.00007362*	*0.00224091*	*0.00010392*	*0.00004181*	*0.00008081*	*0.00115201*
Conc Mean	6.15304000[mg/l]	0.04180410[mg/l]	3.80372000[mg/l]	<-0.00251871[mg/l]	0.25794100[mg/l]	0.00945659[mg/l]	0.01622400[mg/l]
Conc RSD	*1.98813920*	*2.26231638*	*2.15472222*	*213.54145575*	*0.90347017*	*16.75001243*	*6.72096893*
Conc SD	*0.12233100[mg/l]*	*0.00094574[mg/l]*	*0.08195960[mg/l]*	*0.00537849[mg/l]*	*0.00233042[mg/l]*	*0.00158398[mg/l]*	*0.00109041[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	540277	4189.7800000	9065.2400000	479311	22667700	281709	122912
Int RSD	*0.90283503*	*0.29365265*	*0.80706302*	*1.19655297*	*0.28335870*	*0.40456286*	*0.26578690*
Int SD	*4877.8100000*	*12.30340000*	*73.16220000*	*5735.2100000*	*64230.900000*	*1139.6900000*	*326.68400000*
RelInt Mean	0.02234820	-0.00359122	0.00012124	---	---	---	0.25191100
RelInt RSD	*1.03315703*	*0.68836217*	*4.92811956*	---	---	---	*1.16921055*
RelInt SD	*0.00023089*	*0.00002472*	*0.00000598*	---	---	---	*0.00294537*
Conc Mean	0.20917800[mg/l]	<-0.12707600[mg/l]	0.00840561[mg/l]	472862	22621500	281395	1.31362000[mg/l]
Conc RSD	*1.03323007*	*0.72720498*	*12.94016734*	---	---	---	*1.17119106*
Conc SD	*0.00216129[mg/l]*	*0.00092410[mg/l]*	*0.00108770[mg/l]*	*5729.7500000*	*64165.000000*	*1133.0600000*	*0.01538500[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-29.80290000	2781.9000000	140330	22305.900000	4599.4900000	40492.400000	
Int RSD	*248.75297370*	*4.39361587*	*0.28331504*	*0.47637621*	*0.74305195*	*0.32202339*	
Int SD	*74.13560000*	*122.22600000*	*397.57600000*	*106.26000000*	*34.17660000*	*130.39500000*	
RelInt Mean	-0.00059476	0.00077823	0.28790000	0.02986560	0.00056142	0.06742620	
RelInt RSD	*35.08453061*	*6.19621267*	*1.24675582*	*0.51896161*	*13.79180686*	*1.34597530*	
RelInt SD	*0.00020867*	*0.00004822*	*0.00358941*	*0.00015499*	*0.00007743*	*0.00090754*	
Conc Mean	<-0.00159709[mg/l]	<0.00026318[mg/l]	4.42087000[mg/l]	0.77889100[mg/l]	0.00176047[mg/l]	4.67402000[mg/l]	
Conc RSD	*53.11560400*	*197.40629845*	*1.25462861*	*0.52741654*	*19.31007061*	*1.34322061*	
Conc SD	*0.00084830[mg/l]*	*0.00051953[mg/l]*	*0.05546550[mg/l]*	*0.00410800[mg/l]*	*0.00033995[mg/l]*	*0.06278240[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	479661-003	Client ID:	ARCH-C5E-EXT-1 TO 2-230216-L-DUP-WF
Seqnum:	483071211054.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master011	Batch:	307903	Time:	18-FEB-2023 13:49
Cal:	483071211001	Caldate:	18-FEB-2023		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	2.980	150	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	521757	480647	-7.88

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: 479661-003,307903 | Sample Type: Unknown Sample

Measure Date: 2023-02-18 13:49:51 | Recalculation Date: | State: Measured | Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	30024.000000	4842.2900000	4390.9400000	4546.0800000	5836.1100000	38119.400000	5031.3500000
Int RSD	*0.90136890*	*0.68569004*	*0.56695833*	*0.39241280*	*0.03224991*	*0.99416570*	*0.26126984*
Int SD	*270.62700000*	*33.20310000*	*24.89480000*	*17.83940000*	*1.88214000*	*378.97000000*	*13.14540000*
RelInt Mean	0.00002329	0.01569880	-0.00343594	0.00175488	0.00249556	0.13522800	0.00164674
RelInt RSD	*45.29514075*	*1.10186766*	*2.93905016*	*2.85100406*	*1.15651798*	*0.46053924*	*3.48170932*
RelInt SD	*0.00001055*	*0.00017298*	*0.00010098*	*0.00005003*	*0.00002886*	*0.00062278*	*0.00005733*
Conc Mean	<-0.00109587[mg/l]	1.75749000[mg/l]	<-0.12538900[mg/l]	0.01270000[mg/l]	0.00916932[mg/l]	9.41243000[mg/l]	0.01131480[mg/l]
Conc RSD	*35.51342769*	*1.22362005*	*3.10692325*	*4.30738583*	*1.18225779*	*0.46374634*	*3.66667550*
Conc SD	*0.00038918[mg/l]*	*0.02150500[mg/l]*	*0.00389574[mg/l]*	*0.00054704[mg/l]*	*0.00010841[mg/l]*	*0.04364980[mg/l]*	*0.00041488[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	5990.7600000	162902	6983540	110.82700000	4388.3500000	396106	3547.3800000
Int RSD	*0.92630150*	*1.12120170*	*0.16929093*	*19.03444107*	*0.87714973*	*0.77323747*	*0.75060185*
Int SD	*55.49250000*	*1826.4600000*	*11822.500000*	*21.09530000*	*38.49240000*	*3062.8400000*	*26.62670000*
RelInt Mean	0.00475628	0.00611853	14.71420000	0.00063110	0.01387550	0.82368100	-0.00191753
RelInt RSD	*2.03495379*	*1.87661089*	*0.54603512*	*18.84301161*	*2.07191092*	*0.39558276*	*4.86861744*
RelInt SD	*0.00009679*	*0.00011482*	*0.08034470*	*0.00011892*	*0.00028749*	*0.00325834*	*0.00009336*
Conc Mean	0.03038610[mg/l]	0.16364300[mg/l]	49.44410000[mg/l]	0.76743500[mg/l]	4.11946000[mg/l]	0.46487000[mg/l]	<-0.01496320[mg/l]
Conc RSD	*2.09377314*	*2.03465471*	*0.54623706*	*14.98146423*	*2.02781433*	*0.39578377*	*4.73003769*
Conc SD	*0.00063622[mg/l]*	*0.00332957[mg/l]*	*0.27008200[mg/l]*	*0.11497300[mg/l]*	*0.08353500[mg/l]*	*0.00183988[mg/l]*	*0.00070776[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	62493.100000	6073.5500000	43829.100000	4213.6500000	6271.2000000	7888.3300000	5302.8400000
Int RSD	*0.56612170*	*0.73996756*	*0.24423499*	*0.94307785*	*0.14829841*	*1.05996199*	*2.02763048*
Int SD	*353.78700000*	*44.94230000*	*107.04600000*	*39.73800000*	*9.30009000*	*83.61330000*	*107.52200000*
RelInt Mean	0.20904900	0.00338020	0.08132350	-0.00003375	0.00443810	0.00060299	0.01789910
RelInt RSD	*0.27185540*	*2.02061416*	*0.12065344*	*299.49181421*	*0.86217075*	*28.55119620*	*3.16034884*
RelInt SD	*0.00056831*	*0.00006830*	*0.00009812*	*0.00010107*	*0.00003826*	*0.00017216*	*0.00056567*
Conc Mean	9.01335000[mg/l]	0.03789340[mg/l]	2.97964000[mg/l]	<-0.00468373[mg/l]	0.24733100[mg/l]	0.00971023[mg/l]	0.01600680[mg/l]
Conc RSD	*0.29639590*	*2.31566447*	*0.12030346*	*111.69879562*	*0.86217255*	*34.75396566*	*3.34496589*
Conc SD	*0.02671520[mg/l]*	*0.00087748[mg/l]*	*0.00358461[mg/l]*	*0.00523167[mg/l]*	*0.00213242[mg/l]*	*0.00337469[mg/l]*	*0.00053542[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	417638	4120.6400000	8838.2800000	480647	22436000	281582	148398
Int RSD	*1.57812507*	*0.50988681*	*0.89756152*	*0.40587167*	*0.81361205*	*0.89705663*	*0.37412027*
Int SD	*6590.8500000*	*21.01060000*	*79.32900000*	*1950.8100000*	*182542*	*2525.9500000*	*555.18700000*
RelInt Mean	0.01711410	-0.00354267	0.00011495	---	---	---	0.30498100
RelInt RSD	*2.06373692*	*0.74461070*	*8.28569316*	---	---	---	*0.26900594*
RelInt SD	*0.00035319*	*0.00002638*	*0.00000952*	---	---	---	*0.00082042*
Conc Mean	0.16018200[mg/l]	<-0.12513300[mg/l]	0.00726049[mg/l]	474212	22389800	281320	1.59090000[mg/l]
Conc RSD	*2.06402093*	*0.79672269*	*23.87676314*	---	---	---	*0.26964108*
Conc SD	*0.00330619[mg/l]*	*0.00099696[mg/l]*	*0.00173357[mg/l]*	*1915.3900000*	*182533*	*2458.7400000*	*0.00428972[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-1.69243000	2734.0300000	118175	21449.300000	4530.5800000	41329.400000	
Int RSD	*6892.5154955*	*4.83882766*	*0.47515041*	*0.24266713*	*0.56616592*	*0.22984389*	
Int SD	*116.65100000*	*132.29500000*	*561.50900000*	*52.05040000*	*25.65060000*	*94.99310000*	
RelInt Mean	-0.00035268	0.00072213	0.24033000	0.02819600	0.00046524	0.06935320	
RelInt RSD	*70.75220524*	*11.71578525*	*0.27655890*	*0.69739325*	*14.77025589*	*0.34344198*	
RelInt SD	*0.00024953*	*0.00008460*	*0.00066465*	*0.00019664*	*0.00006872*	*0.00023819*	
Conc Mean	<-0.00061299[mg/l]	<-0.00034121[mg/l]	3.68592000[mg/l]	0.73463700[mg/l]	0.00130979[mg/l]	4.80732000[mg/l]	
Conc RSD	*165.48991331*	*267.13978406*	*0.27858174*	*0.70948509*	*22.65645638*	*0.34277726*	
Conc SD	*0.00101443[mg/l]*	*0.00091151[mg/l]*	*0.01026830[mg/l]*	*0.00521214[mg/l]*	*0.00029675[mg/l]*	*0.01647840[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	479661-006	Client ID:	ARCH-C3E-EXT-1 TO 2-230216-L-WF
Seqnum:	483071211055.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master011	Batch:	307903	Time:	18-FEB-2023 13:53
Cal:	483071211001	Caldate:	18-FEB-2023		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	2.342	120	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	521757	475477	-8.87

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: 479661-006,307903			Sample Type: Unknown Sample
Measure Date: 2023-02-18 13:53:10	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	30232.700000	6881.0300000	4732.4200000	5457.9200000	6431.7800000	40043.300000	6704.8400000
Int RSD	*0.73441671*	*1.38804510*	*0.17552183*	*0.82081635*	*0.50168538*	*1.31814061*	*0.11656609*
Int SD	*222.03400000*	*95.51180000*	*8.30643000*	*44.79950000*	*32.26730000*	*527.82700000*	*7.81557000*
RelInt Mean	0.00002013	0.02291620	-0.00321263	0.00245883	0.00335515	0.14192900	0.00487620
RelInt RSD	*28.72856859*	*2.53835278*	*1.15284673*	*2.87577425*	*2.59816402*	*2.02644984*	*0.87010787*
RelInt SD	*0.00000578*	*0.00058169*	*0.00003704*	*0.00007071*	*0.00008717*	*0.00287612*	*0.00004243*
Conc Mean	<-0.00121215[mg/l]	2.65479000[mg/l]	<-0.11679100[mg/l]	0.02039720[mg/l]	0.01245720[mg/l]	9.88216000[mg/l]	0.03487340[mg/l]
Conc RSD	*17.60739182*	*2.72416274*	*1.22281683*	*3.79056439*	*2.66708410*	*2.04020174*	*0.88415526*
Conc SD	*0.00021343[mg/l]*	*0.07232080[mg/l]*	*0.00142814[mg/l]*	*0.00077317[mg/l]*	*0.00033224[mg/l]*	*0.20161600[mg/l]*	*0.00030833[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	7704.4700000	380857	18694900	126.68600000	5223.0800000	834015	3872.1100000
Int RSD	*1.24920987*	*1.56087193*	*0.54724551*	*94.94971820*	*1.91087826*	*0.38527245*	*0.39221251*
Int SD	*96.24500000*	*5944.6900000*	*102307*	*120.28800000*	*99.80670000*	*3213.2300000*	*15.18690000*
RelInt Mean	0.00738961	0.01586920	39.86860000	0.00079643	0.01683860	1.76570000	-0.00195866
RelInt RSD	*2.23880557*	*0.85497694*	*0.56176289*	*39.07648227*	*4.13958999*	*0.29405222*	*4.29889312*
RelInt SD	*0.00016544*	*0.00013568*	*0.22396700*	*0.00031122*	*0.00069705*	*0.00519208*	*0.00008420*
Conc Mean	0.04769590[mg/l]	0.44635500[mg/l]	>133.97700000[mg/l]	0.92727600[mg/l]	4.98035000[mg/l]	0.99683900[mg/l]	<-0.01527490[mg/l]
Conc RSD	*2.28013309*	*0.88108344*	*0.56178075*	*32.44848352*	*4.06640096*	*0.29406554*	*4.17918939*
Conc SD	*0.00108753[mg/l]*	*0.00393276[mg/l]*	*0.75265700[mg/l]*	*0.30088700[mg/l]*	*0.20252100[mg/l]*	*0.00293136[mg/l]*	*0.00063837[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	65478.900000	8805.4000000	35264.100000	4451.6900000	6639.0900000	9481.6400000	5837.9900000
Int RSD	*0.50773303*	*0.57795671*	*0.87837489*	*1.00508122*	*0.44532459*	*0.79317397*	*5.21766910*
Int SD	*332.45800000*	*50.89140000*	*309.75100000*	*44.74310000*	*29.56550000*	*75.20590000*	*304.60700000*
RelInt Mean	0.21907900	0.00873862	0.06388940	0.00009297	0.00450440	0.00338643	0.01986320
RelInt RSD	*1.18986302*	*0.73333089*	*0.94501122*	*105.29030301*	*1.88801394*	*3.14124314*	*6.49487494*
RelInt SD	*0.00260674*	*0.00006408*	*0.00060376*	*0.00009789*	*0.00008504*	*0.00010638*	*0.00129009*
Conc Mean	9.48486000[mg/l]	0.10673300[mg/l]	2.34158000[mg/l]	<0.00177498[mg/l]	0.25102600[mg/l]	0.06427090[mg/l]	0.01786590[mg/l]
Conc RSD	*1.29208022*	*0.77125350*	*0.94246620*	*285.80998096*	*1.88803949*	*3.24432986*	*6.83486418*
Conc SD	*0.12255200[mg/l]*	*0.00082318[mg/l]*	*0.02206860[mg/l]*	*0.00507307[mg/l]*	*0.00473947[mg/l]*	*0.00208516[mg/l]*	*0.00122111[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	498621	4290.2500000	9445.3000000	475477	22336500	282101	153110
Int RSD	*3.28897098*	*0.26844356*	*0.67984712*	*0.11508569*	*0.80505451*	*0.71491062*	*0.52581935*
Int SD	*16399.500000*	*11.51690000*	*64.21360000*	*547.20600000*	*179821*	*2016.7700000*	*805.08200000*
RelInt Mean	0.02082380	-0.00366817	0.00011875	---	---	---	0.31841800
RelInt RSD	*2.83143807*	*0.77301216*	*0.96481595*	---	---	---	*0.45047391*
RelInt SD	*0.00058961*	*0.00002836*	*0.00000115*	---	---	---	*0.00143439*
Conc Mean	0.19490800[mg/l]	<-0.12992600[mg/l]	0.00795135[mg/l]	468703	22289500	281870	1.66110000[mg/l]
Conc RSD	*2.83168982*	*0.80800610*	*2.62007081*	---	---	---	*0.45120041*
Conc SD	*0.00551919[mg/l]*	*0.00104981[mg/l]*	*0.00020833[mg/l]*	*489.34100000*	*179800*	*1984.9400000*	*0.00749489[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-93.96480000	2725.0900000	164308	23533.200000	4762.8800000	43039.800000	
Int RSD	*20.38018492*	*7.82341134*	*0.17916535*	*0.89142998*	*0.14655880*	*0.13354941*	
Int SD	*19.15020000*	*213.19500000*	*294.38300000*	*209.78200000*	*6.98042000*	*57.47940000*	
RelInt Mean	-0.00067471	0.00088425	0.34017500	0.03245430	-0.00006077	0.07322010	
RelInt RSD	*41.89704926*	*37.85831334*	*0.26827045*	*1.48382187*	*73.21753839*	*0.08397940*	
RelInt SD	*0.00028268*	*0.00033476*	*0.00091259*	*0.00048156*	*0.00004450*	*0.00006149*	
Conc Mean	<-0.00192214[mg/l]	<0.00140543[mg/l]	5.22850000[mg/l]	0.84750500[mg/l]	<-0.00100713[mg/l]	5.07483000[mg/l]	
Conc RSD	*59.78804874*	*256.62537444*	*0.27000861*	*1.50598522*	*18.68269240*	*0.08388557*	
Conc SD	*0.00114921[mg/l]*	*0.00360669[mg/l]*	*0.01411740[mg/l]*	*0.01276330[mg/l]*	*0.00018816[mg/l]*	*0.00425705[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	479661-008	Client ID:	ARCH-C4E-DG-2 TO 2.5-230216-L-FB
Seqnum:	483071211056.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master011	Batch:	307903	Time:	18-FEB-2023 13:56
Cal:	483071211001	Caldate:	18-FEB-2023		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	2.141	110	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	521757	482295	-7.56

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: 479661-008,307903			Sample Type: Unknown Sample
Measure Date: 2023-02-18 13:56:30	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	30138.700000	5732.2100000	4856.7700000	4829.2700000	5961.7100000	42278.600000	5043.5000000
Int RSD	*1.00940983*	*3.03026232*	*1.66959111*	*0.49309937*	*0.09935455*	*0.79584234*	*0.76640428*
Int SD	*304.22300000*	*173.70100000*	*81.08820000*	*23.81310000*	*5.92323000*	*336.47100000*	*38.65360000*
RelInt Mean	0.00002762	0.01871400	-0.00286975	0.00194886	0.00271575	0.14952100	0.00161200
RelInt RSD	*33.73861074*	*2.80328631*	*5.03029881*	*4.67655963*	*3.21005247*	*0.97608363*	*6.22419355*
RelInt SD	*0.00000932*	*0.00052461*	*0.00014436*	*0.00009114*	*0.00008718*	*0.00145945*	*0.00010033*
Conc Mean	<-0.00093575[mg/l]	2.13236000[mg/l]	<-0.10356100[mg/l]	0.01482100[mg/l]	0.01001140[mg/l]	10.41440000[mg/l]	0.01107130[mg/l]
Conc RSD	*36.75155036*	*3.05862050*	*5.37747801*	*6.72364888*	*3.32000519*	*0.98195767*	*6.61136452*
Conc SD	*0.00034390[mg/l]*	*0.06522080[mg/l]*	*0.00556897[mg/l]*	*0.00099651[mg/l]*	*0.00033238[mg/l]*	*0.10226500[mg/l]*	*0.00073196[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	7203.2700000	365086	10978500	-8.51816000	4491.5000000	395635	3705.2900000
Int RSD	*0.40918777*	*1.24667065*	*0.15667077*	*153.15631545*	*0.65699210*	*0.22371403*	*1.14144372*
Int SD	*29.47490000*	*4551.4200000*	*17200.100000*	*13.04610000*	*29.50880000*	*885.09100000*	*42.29380000*
RelInt Mean	0.00701621	0.01497850	23.05600000	0.00024909	0.01434220	0.81925600	-0.00192268
RelInt RSD	*1.03524267*	*0.88962179*	*0.07843598*	*52.47445651*	*0.86508346*	*0.20793867*	*5.70869828*
RelInt SD	*0.00007263*	*0.00013325*	*0.01808420*	*0.00013071*	*0.00012407*	*0.00170355*	*0.00010976*
Conc Mean	0.04524140[mg/l]	0.42053000[mg/l]	77.47750000[mg/l]	0.39809400[mg/l]	4.25506000[mg/l]	0.46237200[mg/l]	<-0.01500230[mg/l]
Conc RSD	*1.05530554*	*0.91892849*	*0.07843709*	*31.74300542*	*0.84746161*	*0.20801952*	*5.54672284*
Conc SD	*0.00047744[mg/l]*	*0.00386437[mg/l]*	*0.06077110[mg/l]*	*0.12636700[mg/l]*	*0.03606000[mg/l]*	*0.00096182[mg/l]*	*0.00083214[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	41999.600000	11511.500000	32951.100000	4287.8800000	6547.3400000	9317.6800000	4868.1300000
Int RSD	*0.80202192*	*0.81712201*	*0.40380746*	*0.19157159*	*0.40164555*	*0.09592109*	*2.73258931*
Int SD	*336.84600000*	*94.06300000*	*133.05900000*	*8.21436000*	*26.29710000*	*8.93762000*	*133.02600000*
RelInt Mean	0.13592100	0.01464070	0.05839520	-0.00000306	0.00467427	0.00295478	0.01629740
RelInt RSD	*0.75054627*	*1.52158708*	*0.49198222*	*2267.0775401*	*1.66670945*	*1.45555676*	*3.50981138*
RelInt SD	*0.00102015*	*0.00022277*	*0.00028729*	*0.00006941*	*0.00007791*	*0.00004301*	*0.00057201*
Conc Mean	5.57560000[mg/l]	0.18255700[mg/l]	2.14075000[mg/l]	<-0.00318224[mg/l]	0.26049200[mg/l]	0.05580980[mg/l]	0.01449080[mg/l]
Conc RSD	*0.86026437*	*1.56778431*	*0.49174355*	*112.83938358*	*1.66683814*	*1.51072930*	*3.73612223*
Conc SD	*0.04796490[mg/l]*	*0.00286210[mg/l]*	*0.01052700[mg/l]*	*0.00359082[mg/l]*	*0.00434198[mg/l]*	*0.00084313[mg/l]*	*0.00054139[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	405836	4197.2000000	9013.4700000	482295	22634900	283031	113622
Int RSD	*1.07245538*	*0.48484704*	*0.71732418*	*0.14021232*	*0.39938855*	*0.12617169*	*0.48728855*
Int SD	*4352.4100000*	*20.35000000*	*64.65580000*	*676.23700000*	*90401.200000*	*357.10500000*	*553.66700000*
RelInt Mean	0.01644960	-0.00358858	0.00011636	---	---	---	0.23082400
RelInt RSD	*1.47780493*	*1.55732908*	*1.30104071*	---	---	---	*0.37767953*
RelInt SD	*0.00024309*	*0.00005589*	*0.00000151*	---	---	---	*0.00087177*
Conc Mean	0.15396100[mg/l]	<-0.12683800[mg/l]	0.00751731[mg/l]	475876	22588500	282784	1.20345000[mg/l]
Conc RSD	*1.47809510*	*1.65587600*	*3.66178859*	---	---	---	*0.37839462*
Conc SD	*0.00227569[mg/l]*	*0.00210028[mg/l]*	*0.00027527[mg/l]*	*664.53300000*	*90500.900000*	*275.53400000*	*0.00455379[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-7.43290000	2633.8300000	126211	23621.700000	4574.6100000	41344.100000	
Int RSD	*1281.6612628*	*8.12277178*	*0.26341286*	*0.67560760*	*1.00958552*	*0.52249535*	
Int SD	*95.26460000*	*213.94000000*	*332.45600000*	*159.59000000*	*46.18460000*	*216.02100000*	
RelInt Mean	-0.00030526	0.00050245	0.25612800	0.03206360	0.00027200	0.06854880	
RelInt RSD	*92.83304178*	*92.17667172*	*0.24669501*	*1.06188949*	*33.44346854*	*0.70819037*	
RelInt SD	*0.00028338*	*0.00046314*	*0.00063186*	*0.00034048*	*0.00009097*	*0.00048546*	
Conc Mean	<-0.00042020[mg/l]	<-0.00270807[mg/l]	3.92999000[mg/l]	0.83715000[mg/l]	<0.00039072[mg/l]	4.75167000[mg/l]	
Conc RSD	*274.16683325*	*184.25705392*	*0.24889198*	*1.07800275*	*97.64536059*	*0.70688411*	
Conc SD	*0.00115206[mg/l]*	*0.00498981[mg/l]*	*0.00978143[mg/l]*	*0.00902450[mg/l]*	*0.00038152[mg/l]*	*0.03358880[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	479661-010	Client ID:	ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-L-LA
Seqnum:	483071211057.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master011	Batch:	307903	Time:	18-FEB-2023 13:59
Cal:	483071211001	Caldate:	18-FEB-2023		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.02 ft2 ⇨ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	6.239	310	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	521757	477451	-8.49

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: 479661-010,307903			Sample Type: Unknown Sample
Measure Date: 2023-02-18 13:59:49	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	30185.800000	7832.9200000	4754.0600000	5230.2300000	6705.6600000	41037.300000	5410.7300000
Int RSD	*0.61635603*	*2.53413797*	*0.25790798*	*1.47847035*	*0.60269981*	*1.38024919*	*1.11589933*
Int SD	*186.05200000*	*198.49700000*	*12.26110000*	*77.32740000*	*40.41500000*	*566.41700000*	*60.37830000*
RelInt Mean	0.00002580	0.02627210	-0.00234233	0.00241085	0.00413979	0.14546800	0.00225401
RelInt RSD	*8.62875191*	*3.71652057*	*4.28043871*	*2.87504822*	*1.26610529*	*1.62784942*	*3.99244014*
RelInt SD	*0.00000223*	*0.00097641*	*0.00010026*	*0.00006931*	*0.00005241*	*0.00236800*	*0.00008999*
Conc Mean	<-0.00100295[mg/l]	3.07202000[mg/l]	<-0.08321880[mg/l]	0.01987250[mg/l]	0.01545360[mg/l]	10.13030000[mg/l]	0.01559080[mg/l]
Conc RSD	*8.19161474*	*3.95147167*	*4.64707494*	*3.81360171*	*1.30532044*	*1.63879648*	*4.23031531*
Conc SD	*0.00008216[mg/l]*	*0.12139000[mg/l]*	*0.00386724[mg/l]*	*0.00075786[mg/l]*	*0.00020172[mg/l]*	*0.16601500[mg/l]*	*0.00065954[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	7594.6300000	381993	15170600	8.14020000	5270.4400000	635476	3757.6100000
Int RSD	*0.95026091*	*1.47632810*	*0.51858133*	*701.26409671*	*3.75528419*	*0.85367976*	*0.12090744*
Int SD	*72.16880000*	*5639.4700000*	*78671.900000*	*57.08430000*	*197.92000000*	*5424.9300000*	*4.54323000*
RelInt Mean	0.00750261	0.01582530	32.20200000	0.00031997	0.01695690	1.33652000	-0.00182054
RelInt RSD	*1.65779642*	*1.10833286*	*0.44252531*	*66.51623731*	*5.30853517*	*0.83243797*	*5.20070419*
RelInt SD	*0.00012438*	*0.00017540*	*0.14250200*	*0.00021283*	*0.00090016*	*0.01112570*	*0.00009468*
Conc Mean	0.04843860[mg/l]	0.44508300[mg/l]	>108.21300000[mg/l]	0.46663000[mg/l]	5.01470000[mg/l]	0.75447700[mg/l]	<-0.01422790[mg/l]
Conc RSD	*1.68777999*	*1.14240490*	*0.44239047*	*44.09703620*	*5.21514747*	*0.83255818*	*5.04506638*
Conc SD	*0.00081754[mg/l]*	*0.00508465[mg/l]*	*0.47872400[mg/l]*	*0.20577000[mg/l]*	*0.26152400[mg/l]*	*0.00628146[mg/l]*	*0.00071781[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	49173.300000	9360.3900000	85612.700000	4368.1800000	6144.8200000	8478.0200000	6086.2100000
Int RSD	*1.04371275*	*0.87407042*	*0.34910942*	*1.16867666*	*0.33548094*	*0.83702209*	*4.22829643*
Int SD	*513.22800000*	*81.81640000*	*298.88200000*	*51.04990000*	*20.61470000*	*70.96290000*	*257.34300000*
RelInt Mean	0.16152200	0.01012890	0.17044300	0.00022248	0.00391571	0.00250634	0.02051190
RelInt RSD	*1.33611520*	*1.40309412*	*0.31761469*	*28.85772975*	*0.75665205*	*4.66907922*	*5.77874307*
RelInt SD	*0.00215812*	*0.00014212*	*0.00054135*	*0.00006420*	*0.00002963*	*0.00011702*	*0.00118533*
Conc Mean	6.77911000[mg/l]	0.12459400[mg/l]	6.23945000[mg/l]	0.00847535[mg/l]	0.21821800[mg/l]	0.04701960[mg/l]	0.01847990[mg/l]
Conc RSD	*1.49642062*	*1.46547185*	*0.31656797*	*39.22233300*	*0.75663327*	*4.87845494*	*6.07102852*
Conc SD	*0.10144400[mg/l]*	*0.00182589[mg/l]*	*0.01975210[mg/l]*	*0.00332423[mg/l]*	*0.00165111[mg/l]*	*0.00229383[mg/l]*	*0.00112192[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	648989	4099.3600000	9282.8200000	477451	22488600	281778	135720
Int RSD	*1.33375450*	*0.36619619*	*0.47184584*	*0.09712662*	*1.09901017*	*0.30852267*	*0.26345564*
Int SD	*8655.9200000*	*15.01170000*	*43.80060000*	*463.73200000*	*247152*	*869.34900000*	*357.56200000*
RelInt Mean	0.02738850	-0.00333810	0.00012444	---	---	---	0.28000400
RelInt RSD	*1.41509758*	*0.64048411*	*3.73129003*	---	---	---	*0.16433444*
RelInt SD	*0.00038757*	*0.00002138*	*0.00000464*	---	---	---	*0.00046014*
Conc Mean	0.25636000[mg/l]	<-0.11770600[mg/l]	0.00898707[mg/l]	470861	22442100	281550	1.46040000[mg/l]
Conc RSD	*1.41509206*	*0.67414235*	*9.40334280*	---	---	---	*0.16479663*
Conc SD	*0.00362773[mg/l]*	*0.00079351[mg/l]*	*0.00084509[mg/l]*	*420.37200000*	*247139*	*849.00500000*	*0.00240669[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-113.04700000	2765.0500000	168612	21867.500000	4614.1700000	44272.800000	
Int RSD	*49.92348315*	*5.20446285*	*0.16387742*	*0.70929919*	*0.37912777*	*0.17345006*	
Int SD	*56.43700000*	*143.90600000*	*276.31700000*	*155.10600000*	*17.49360000*	*76.79120000*	
RelInt Mean	-0.00085760	0.00079098	0.34820800	0.03000640	-0.00004012	0.07683320	
RelInt RSD	*20.39367820*	*16.35093859*	*0.17276599*	*1.28172323*	*153.19495228*	*0.23635225*	
RelInt SD	*0.00017490*	*0.00012933*	*0.00060159*	*0.00038460*	*0.00006146*	*0.00018160*	
Conc Mean	<-0.00266567[mg/l]	<0.00040053[mg/l]	5.35258000[mg/l]	0.78262300[mg/l]	<-0.00103953[mg/l]	5.32477000[mg/l]	
Conc RSD	*26.67310657*	*347.88980656*	*0.17321198*	*1.30267063*	*25.30759093*	*0.23590878*	
Conc SD	*0.00071102[mg/l]*	*0.00139341[mg/l]*	*0.00927131[mg/l]*	*0.01019500[mg/l]*	*0.00026308[mg/l]*	*0.01256160[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	479661-013	Client ID:	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-L-LA
Seqnum:	483071211058.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master011	Batch:	307903	Time:	18-FEB-2023 14:03
Cal:	483071211001	Caldate:	18-FEB-2023		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.02 ft2 ⇨ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	4.746	230	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	521757	480173	-7.97

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: 479661-013,307903			Sample Type: Unknown Sample
Measure Date: 2023-02-18 14:03:10	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	30275.800000	6840.4900000	4642.9900000	4987.6500000	6108.6700000	36429.700000	5468.4200000
Int RSD	*1.02024719*	*3.02071928*	*0.60214000*	*1.13805500*	*0.21004081*	*0.98097980*	*0.55843370*
Int SD	*308.88800000*	*206.63200000*	*27.95730000*	*56.76220000*	*12.83070000*	*357.36800000*	*30.53750000*
RelInt Mean	0.00002423	0.02233670	-0.00228856	0.00196654	0.00288582	0.12801000	0.00237760
RelInt RSD	*51.82337452*	*3.23376327*	*4.42553396*	*5.93814517*	*3.36361935*	*1.37212718*	*1.12626178*
RelInt SD	*0.00001256*	*0.00072232*	*0.00010128*	*0.00011678*	*0.00009707*	*0.00175646*	*0.00002678*
Conc Mean	<-0.00106102[mg/l]	2.58274000[mg/l]	<-0.08112970[mg/l]	0.01501430[mg/l]	0.01065750[mg/l]	8.90649000[mg/l]	0.01652650[mg/l]
Conc RSD	*43.66835686*	*3.47676111*	*4.81574565*	*8.50449238*	*3.48135116*	*1.38269958*	*1.33151000*
Conc SD	*0.00046333[mg/l]*	*0.08979570[mg/l]*	*0.00390700[mg/l]*	*0.00127689[mg/l]*	*0.00037102[mg/l]*	*0.12315000[mg/l]*	*0.00022005[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	6369.9800000	357492	13564200	82.00510000	4881.6500000	501301	3700.7800000
Int RSD	*0.55785105*	*1.27116131*	*0.28645036*	*55.16522753*	*1.61097375*	*0.58973351*	*0.41177265*
Int SD	*35.53500000*	*4544.3000000*	*38854.700000*	*45.23830000*	*78.64210000*	*2956.3400000*	*15.23880000*
RelInt Mean	0.00496923	0.01432250	28.62550000	0.00053156	0.01523800	1.04573000	-0.00177364
RelInt RSD	*0.46384651*	*4.35326235*	*0.47187647*	*8.01013997*	*1.58458459*	*0.15413730*	*0.99126091*
RelInt SD	*0.00002305*	*0.00062350*	*0.13507700*	*0.00004258*	*0.00024146*	*0.00161186*	*0.00001758*
Conc Mean	0.03178590[mg/l]	0.40151000[mg/l]	96.19420000[mg/l]	0.67119500[mg/l]	4.51530000[mg/l]	0.59026600[mg/l]	<-0.01387230[mg/l]
Conc RSD	*0.47672710*	*4.50212946*	*0.47182367*	*6.13316547*	*1.55370407*	*0.15429772*	*0.96072028*
Conc SD	*0.00015153[mg/l]*	*0.01807650[mg/l]*	*0.45386700[mg/l]*	*0.04116550[mg/l]*	*0.07015440[mg/l]*	*0.00091077[mg/l]*	*0.00013327[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	39987.600000	9655.2200000	66695.400000	4355.3600000	6002.5100000	7986.5000000	5028.1400000
Int RSD	*1.70313047*	*0.57176325*	*0.34320958*	*0.39006420*	*0.46486553*	*0.26594378*	*4.70181817*
Int SD	*681.04100000*	*55.20500000*	*228.90500000*	*16.98870000*	*27.90360000*	*21.23960000*	*236.41400000*
RelInt Mean	0.12769700	0.01068180	0.12960700	0.00025635	0.00384354	0.00186055	0.01678690
RelInt RSD	*1.71097207*	*2.08865547*	*0.51362735*	*10.91331451*	*1.43905618*	*5.29310688*	*7.13508748*
RelInt SD	*0.00218486*	*0.00022311*	*0.00066570*	*0.00002798*	*0.00005531*	*0.00009848*	*0.00119776*
Conc Mean	5.18901000[mg/l]	0.13169700[mg/l]	4.74570000[mg/l]	0.01032670[mg/l]	0.21419700[mg/l]	0.03436080[mg/l]	0.01495410[mg/l]
Conc RSD	*1.97941418*	*2.17626066*	*0.51291485*	*14.02829558*	*1.43900241*	*5.61797164*	*7.58153282*
Conc SD	*0.10271200[mg/l]*	*0.00286607[mg/l]*	*0.02434140[mg/l]*	*0.00144866[mg/l]*	*0.00308230[mg/l]*	*0.00193038[mg/l]*	*0.00113375[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	621059	4028.5700000	9306.3700000	480173	23148800	284601	118708
Int RSD	*2.98168129*	*0.51115905*	*1.40423173*	*0.46140662*	*3.18070915*	*0.51341000*	*0.15175388*
Int SD	*18518.000000*	*20.59240000*	*130.68300000*	*2215.5500000*	*736296*	*1461.1700000*	*180.14400000*
RelInt Mean	0.02540900	-0.00326821	0.00011992	---	---	---	0.24264700
RelInt RSD	*5.94793184*	*1.96789068*	*5.68606620*	---	---	---	*0.60165590*
RelInt SD	*0.00151131*	*0.00006431*	*0.00000682*	---	---	---	*0.00145990*
Conc Mean	0.23783000[mg/l]	<-0.11503900[mg/l]	0.00816382[mg/l]	473591	23102100	284286	1.26523000[mg/l]
Conc RSD	*5.94866081*	*2.10612053*	*15.20440186*	---	---	---	*0.60287379*
Conc SD	*0.01414770[mg/l]*	*0.00242286[mg/l]*	*0.00124126[mg/l]*	*2204.1700000*	*736319*	*1420.7400000*	*0.00762774[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	79.60140000	2810.9500000	155075	20713.700000	4619.0400000	37434.200000	
Int RSD	*78.98541985*	*5.75257475*	*0.50410318*	*0.73522355*	*0.82954683*	*0.26237692*	
Int SD	*62.87350000*	*161.70200000*	*781.73800000*	*152.29200000*	*38.31710000*	*98.21870000*	
RelInt Mean	-0.00026836	0.00092049	0.31776300	0.02774700	0.00014444	0.06215840	
RelInt RSD	*60.74288546*	*27.23950401*	*0.16530653*	*1.36026958*	*101.80559402*	*0.58307003*	
RelInt SD	*0.00016301*	*0.00025074*	*0.00052528*	*0.00037743*	*0.00014705*	*0.00036243*	
Conc Mean	<-0.00027018[mg/l]	<0.00179594[mg/l]	4.88220000[mg/l]	0.72273800[mg/l]	<-0.00024516[mg/l]	4.30961000[mg/l]	
Conc RSD	*245.27920585*	*150.41816542*	*0.16617386*	*1.38419455*	*259.31964187*	*0.58182759*	
Conc SD	*0.00066269[mg/l]*	*0.00270142[mg/l]*	*0.00811294[mg/l]*	*0.01000410[mg/l]*	*0.00063576[mg/l]*	*0.02507450[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	479661-015	Client ID:	ARCH-C4E-INT-2.5 TO 3.5-230216-L-WF
Seqnum:	483071211059.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master011	Batch:	307903	Time:	18-FEB-2023 14:06
Cal:	483071211001	Caldate:	18-FEB-2023		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	6.522	330	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	521757	483940	-7.25

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: 479661-015,307903			Sample Type: Unknown Sample
Measure Date: 2023-02-18 14:06:30	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	30059.300000	6118.2800000	4188.1500000	4420.3500000	6129.8200000	38739.600000	4890.8000000
Int RSD	*0.81127305*	*2.73147028*	*0.48084715*	*0.24698949*	*0.67480937*	*1.03320117*	*0.38574057*
Int SD	*243.86300000*	*167.11900000*	*20.13860000*	*10.91780000*	*41.36460000*	*400.25800000*	*18.86580000*
RelInt Mean	0.00002669	0.01973850	-0.00306709	0.00156967	0.00321012	0.13531200	0.00138633
RelInt RSD	*2.61501338*	*4.87068420*	*1.25835564*	*2.59074837*	*2.66311540*	*1.49048865*	*1.94111792*
RelInt SD	*0.00000070*	*0.00096140*	*0.00003859*	*0.00004067*	*0.00008549*	*0.00201681*	*0.00002691*
Conc Mean	<-0.00097031[mg/l]	2.25973000[mg/l]	<-0.11115300[mg/l]	0.01067480[mg/l]	0.01189720[mg/l]	9.41829000[mg/l]	0.00942223[mg/l]
Conc RSD	*2.65395869*	*5.28921597*	*1.33943303*	*4.16519279*	*2.75514407*	*1.50097311*	*2.00615990*
Conc SD	*0.00002575[mg/l]*	*0.11952200[mg/l]*	*0.00148882[mg/l]*	*0.00044463[mg/l]*	*0.00032778[mg/l]*	*0.14136600[mg/l]*	*0.00018903[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	5349.0000000	130343	6235470	-83.86060000	4302.4100000	367966	3459.0200000
Int RSD	*0.44832118*	*0.87229847*	*0.59230980*	*6.88689325*	*5.80944169*	*0.65061174*	*0.72330602*
Int SD	*23.98070000*	*1136.9800000*	*36933.300000*	*5.77539000*	*249.94600000*	*2394.0300000*	*25.01930000*
RelInt Mean	0.00344662	0.00458753	13.04370000	0.00005049	0.01326270	0.75897500	-0.00176189
RelInt RSD	*0.63637709*	*1.25449425*	*0.97092849*	*395.07549573*	*6.54840266*	*0.48854705*	*3.98994829*
RelInt SD	*0.00002193*	*0.00005755*	*0.12664500*	*0.00019946*	*0.00086850*	*0.00370795*	*0.00007030*
Conc Mean	0.02177730[mg/l]	0.11925300[mg/l]	43.83040000[mg/l]	<0.20608700[mg/l]	3.94141000[mg/l]	0.42833100[mg/l]	<-0.01378330[mg/l]
Conc RSD	*0.66195075*	*1.39932748*	*0.97100871*	*93.57164693*	*6.40192215*	*0.48893029*	*3.86673728*
Conc SD	*0.00014416[mg/l]*	*0.00166874[mg/l]*	*0.42559700[mg/l]*	*0.19283900[mg/l]*	*0.25232600[mg/l]*	*0.00209424[mg/l]*	*0.00053296[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	42889.300000	5857.4100000	90385.200000	4099.5400000	5888.8400000	7375.9600000	5034.5700000
Int RSD	*0.97196270*	*0.50295779*	*0.24751176*	*0.46701337*	*0.47477092*	*0.67010667*	*5.43959067*
Int SD	*416.86800000*	*29.46030000*	*223.71400000*	*19.14540000*	*27.95850000*	*49.42680000*	*273.86000000*
RelInt Mean	0.13716800	0.00295765	0.17817300	-0.00001660	0.00394177	0.00071835	0.01657740
RelInt RSD	*1.18604193*	*1.00886853*	*0.33496602*	*132.27841618*	*0.80992549*	*12.32743188*	*7.61572985*
RelInt SD	*0.00162687*	*0.00002984*	*0.00059682*	*0.00002195*	*0.00003193*	*0.00008855*	*0.00126249*
Conc Mean	5.63426000[mg/l]	0.03246490[mg/l]	6.52247000[mg/l]	<-0.00374524[mg/l]	0.21967100[mg/l]	0.01197150[mg/l]	0.01475580[mg/l]
Conc RSD	*1.35745244*	*1.18073981*	*0.33510925*	*30.36654527*	*0.80977007*	*14.50010441*	*8.09844265*
Conc SD	*0.07648240[mg/l]*	*0.00038333[mg/l]*	*0.02185740[mg/l]*	*0.00113730[mg/l]*	*0.00177883[mg/l]*	*0.00173588[mg/l]*	*0.00119499[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	407734	3971.9500000	8789.5100000	483940	22858100	286043	121693
Int RSD	*2.50557962*	*0.55184985*	*0.86209015*	*0.44285655*	*0.29909223*	*0.40358967*	*0.19566614*
Int SD	*10216.100000*	*21.91920000*	*75.77350000*	*2143.1600000*	*68366.800000*	*1154.4400000*	*238.11200000*
RelInt Mean	0.01636970	-0.00311988	0.00011326	---	---	---	0.24688400
RelInt RSD	*2.97456887*	*1.31219791*	*3.10680735*	---	---	---	*0.40811069*
RelInt SD	*0.00048693*	*0.00004094*	*0.00000352*	---	---	---	*0.00100756*
Conc Mean	0.15321300[mg/l]	<-0.10926200[mg/l]	0.00695197[mg/l]	477603	22811800	285801	1.28737000[mg/l]
Conc RSD	*2.97466925*	*1.41373945*	*9.21340282*	---	---	---	*0.40845678*
Conc SD	*0.00455758[mg/l]*	*0.00154468[mg/l]*	*0.00064051[mg/l]*	*2101.0000000*	*68481.000000*	*1187.7900000*	*0.00525835[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	14.14340000	2794.0200000	125707	21017.000000	4462.0600000	40056.200000	
Int RSD	*513.11141593*	*6.27339819*	*0.97154494*	*0.64378360*	*0.26077193*	*0.62085021*	
Int SD	*72.57140000*	*175.28000000*	*1221.3000000*	*135.30400000*	*11.63580000*	*248.68900000*	
RelInt Mean	-0.00042062	0.00072416	0.25455300	0.02823380	0.00039844	0.06720390	
RelInt RSD	*74.41241780*	*74.51957865*	*1.15713034*	*1.29286529*	*1.58203786*	*0.80895900*	
RelInt SD	*0.00031300*	*0.00053964*	*0.00294551*	*0.00036503*	*0.00000630*	*0.00054365*	
Conc Mean	<-0.00088918[mg/l]	<-0.00031939[mg/l]	3.90563000[mg/l]	0.73563800[mg/l]	0.00096775[mg/l]	4.65864000[mg/l]	
Conc RSD	*143.10150926*	*1820.3709618*	*1.16551747*	*1.31519171*	*3.18463400*	*0.80728281*	
Conc SD	*0.00127243[mg/l]*	*0.00581401[mg/l]*	*0.04552080[mg/l]*	*0.00967505[mg/l]*	*0.00003082[mg/l]*	*0.03760840[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	479661-016	Client ID:	ARCH-C4E-INT-2.5 TO 3.5-230216-L-DUP-WF
Seqnum:	483071211060.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master011	Batch:	307903	Time:	18-FEB-2023 14:09
Cal:	483071211001	Caldate:	18-FEB-2023		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	5.764	290	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	521757	482106	-7.60

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: 479661-016,307903			Sample Type: Unknown Sample
Measure Date: 2023-02-18 14:09:49	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	30178.200000	5216.5800000	4040.1900000	4392.5300000	6050.8200000	39646.900000	4889.4800000
Int RSD	*0.63763578*	*3.23804102*	*0.31784891*	*0.71365022*	*0.83811616*	*1.41310670*	*0.87784386*
Int SD	*192.42700000*	*168.91500000*	*12.84170000*	*31.34730000*	*50.71290000*	*560.25300000*	*42.92200000*
RelInt Mean	0.00002064	0.01706380	-0.00291375	0.00146336	0.00307236	0.13974100	0.00141494
RelInt RSD	*39.84720843*	*3.92272530*	*2.59681510*	*5.18341351*	*1.20364476*	*0.90335692*	*7.35465815*
RelInt SD	*0.00000823*	*0.00066937*	*0.00007566*	*0.00007585*	*0.00003698*	*0.00126236*	*0.00010406*
Conc Mean	<-0.00119338[mg/l]	1.92719000[mg/l]	<-0.10523500[mg/l]	0.00951242[mg/l]	0.01136690[mg/l]	9.72875000[mg/l]	0.00968232[mg/l]
Conc RSD	*25.43263671*	*4.31825611*	*2.77366846*	*8.71870670*	*1.23063456*	*0.90939021*	*7.81917970*
Conc SD	*0.00030351[mg/l]*	*0.08322100[mg/l]*	*0.00291887[mg/l]*	*0.00082936[mg/l]*	*0.00013988[mg/l]*	*0.08847230[mg/l]*	*0.00075708[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	5138.9800000	139886	6498460	-13.61350000	4007.3300000	357053	3447.7700000
Int RSD	*0.12681057*	*1.01207412*	*0.62499269*	*345.31090462*	*2.51316962*	*0.90470882*	*1.21721867*
Int SD	*6.51677000*	*1415.7500000*	*40614.900000*	*47.00890000*	*100.71100000*	*3230.2900000*	*41.96690000*
RelInt Mean	0.00301797	0.00500234	13.64630000	0.00014765	0.01240770	0.73893800	-0.00163435
RelInt RSD	*1.47710547*	*3.74666656*	*0.99501696*	*148.64405402*	*2.34533395*	*0.42880999*	*3.42988956*
RelInt SD	*0.00004458*	*0.00018742*	*0.13578300*	*0.00021947*	*0.00029100*	*0.00316864*	*0.00005606*
Conc Mean	0.01895960[mg/l]	0.13127900[mg/l]	45.85550000[mg/l]	0.30002200[mg/l]	3.69302000[mg/l]	0.41701600[mg/l]	<-0.01281630[mg/l]
Conc RSD	*1.54571826*	*4.13924542*	*0.99499297*	*70.72248035*	*2.28970328*	*0.42909145*	*3.31580097*
Conc SD	*0.00029306[mg/l]*	*0.00543396[mg/l]*	*0.45625900[mg/l]*	*0.21218300[mg/l]*	*0.08455920[mg/l]*	*0.00178938[mg/l]*	*0.00042496[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	39779.200000	5983.1800000	80161.700000	4037.7200000	5588.1900000	7157.6900000	4775.6100000
Int RSD	*1.07063490*	*0.65211142*	*0.49669605*	*0.54080273*	*0.36247157*	*0.75983173*	*1.79938060*
Int SD	*425.89000000*	*39.01700000*	*398.16000000*	*21.83610000*	*20.25560000*	*54.38640000*	*85.93140000*
RelInt Mean	0.12737000	0.00322681	0.15744200	0.00001817	0.00362203	0.00103671	0.01616100
RelInt RSD	*1.33546361*	*1.60471797*	*0.39137905*	*170.63809178*	*0.85010063*	*6.11609804*	*2.62584617*
RelInt SD	*0.00170098*	*0.00005178*	*0.00061620*	*0.00003100*	*0.00003079*	*0.00006341*	*0.00042436*
Conc Mean	5.17365000[mg/l]	0.03592290[mg/l]	5.76419000[mg/l]	<-0.00192890[mg/l]	0.20185200[mg/l]	0.01821200[mg/l]	0.01436170[mg/l]
Conc RSD	*1.54579069*	*1.85189113*	*0.39076609*	*83.29306859*	*0.85002873*	*6.82434658*	*2.79625671*
Conc SD	*0.07997380[mg/l]*	*0.00066525[mg/l]*	*0.02252450[mg/l]*	*0.00160664[mg/l]*	*0.00171580[mg/l]*	*0.00124285[mg/l]*	*0.00040159[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	335262	3853.3600000	8709.3000000	482106	22836400	283518	146221
Int RSD	*1.41118886*	*0.50705099*	*0.48586913*	*0.85428308*	*2.89788233*	*0.66508652*	*0.49560118*
Int SD	*4731.1800000*	*19.53850000*	*42.31580000*	*4118.5500000*	*661772*	*1885.6400000*	*724.67300000*
RelInt Mean	0.01320420	-0.00294346	0.00010577	---	---	---	0.29955600
RelInt RSD	*1.88602111*	*0.70371943*	*2.53289592*	---	---	---	*0.53968540*
RelInt SD	*0.00024903*	*0.00002071*	*0.00000268*	---	---	---	*0.00161666*
Conc Mean	0.12358100[mg/l]	<-0.10257300[mg/l]	0.00558867[mg/l]	475793	22790000	283260	1.56256000[mg/l]
Conc RSD	*1.88659260*	*0.75933920*	*8.72764003*	---	---	---	*0.54045797*
Conc SD	*0.00233147[mg/l]*	*0.00077888[mg/l]*	*0.00048776[mg/l]*	*4146.8000000*	*661831*	*1874.4100000*	*0.00844498[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-48.94960000	2755.8200000	108874	19121.600000	4453.9800000	37990.900000	
Int RSD	*105.69585860*	*9.04228143*	*1.44558848*	*1.05733830*	*0.14351367*	*0.93861161*	
Int SD	*51.73770000*	*249.18900000*	*1573.8700000*	*202.18000000*	*6.39207000*	*356.58700000*	
RelInt Mean	-0.00061464	0.00089531	0.22028400	0.02507410	0.00036821	0.06386460	
RelInt RSD	*22.09112385*	*35.44158596*	*0.64371448*	*1.47578976*	*4.31797813*	*0.77182665*	
RelInt SD	*0.00013578*	*0.00031731*	*0.00141800*	*0.00037004*	*0.00001590*	*0.00049292*	
Conc Mean	<-0.00167791[mg/l]	<0.00152457[mg/l]	3.37616000[mg/l]	0.65189000[mg/l]	<0.00081489[mg/l]	4.42763000[mg/l]	
Conc RSD	*32.89747364*	*224.23830982*	*0.64867186*	*1.50452684*	*9.76180747*	*0.77011178*	
Conc SD	*0.00055199[mg/l]*	*0.00341867[mg/l]*	*0.02190020[mg/l]*	*0.00980786[mg/l]*	*0.00007955[mg/l]*	*0.03409770[mg/l]*	

ENTHALPY BLANK USER REPORT FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06	Lab ID:	QC1046520		
Seqnum:	483071211045.3	Matrix:	Wipe		
File:	met06_master011	Batch:	307903	Time:	18-FEB-2023 13:20
Cal:	483071211001	Caldate:	18-FEB-2023		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Flags
Lead	A	-0.006210	ND	0.25	**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BLANK Abund	%Drift
Yttrium	A	521757	495915	-4.95

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: BLANK,QC1046520,307903			Sample Type: Unknown Sample
Measure Date: 2023-02-18 13:20:04	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	31931.700000	796.08500000	2384.5000000	3717.1300000	4358.3500000	368.78300000	4137.7400000
Int RSD	*0.71123053*	*4.87615016*	*0.32132397*	*0.79129059*	*1.17563757*	*31.50579067*	*0.42212899*
Int SD	*227.10800000*	*38.81830000*	*7.66197000*	*29.41330000*	*51.23840000*	*116.18800000*	*17.46660000*
RelInt Mean	0.00003643	0.00178627	-0.00058084	0.00046449	-0.00015065	0.00119307	-0.00002254
RelInt RSD	*21.23342939*	*1.53148180*	*6.21237789*	*6.66204509*	*80.23724336*	*23.06394428*	*55.53771145*
RelInt SD	*0.00000774*	*0.00002736*	*0.00003608*	*0.00003094*	*0.00012088*	*0.00027517*	*0.00001252*
Conc Mean	<-0.00061066[mg/l]	<0.02781370[mg/l]	<-0.01522650[mg/l]	<-0.00140957[mg/l]	<-0.00100790[mg/l]	<0.01669390[mg/l]	<-0.00064267[mg/l]
Conc RSD	*46.74704951*	*12.22731963*	*9.14077431*	*24.00377420*	*45.98273638*	*115.54579817*	*15.39456302*
Conc SD	*0.00028547[mg/l]*	*0.00340087[mg/l]*	*0.00139182[mg/l]*	*0.00033835[mg/l]*	*0.00046346[mg/l]*	*0.01928910[mg/l]*	*0.00009894[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3724.9600000	38212.400000	10583.200000	-134.14500000	354.45000000	7656.8900000	3092.3800000
Int RSD	*1.04434410*	*0.19429714*	*19.49665508*	*51.36673003*	*34.78939202*	*0.23513332*	*1.95032305*
Int SD	*38.90140000*	*74.24560000*	*2063.3700000*	*68.90590000*	*123.31100000*	*18.00390000*	*60.31140000*
RelInt Mean	0.00030485	0.00049668	0.01127890	-0.00028676	-0.00053499	0.00528271	0.00020954
RelInt RSD	*15.30271769*	*2.98428371*	*37.43139845*	*58.49854060*	*78.80319482*	*1.03170910*	*65.28949679*
RelInt SD	*0.00004665*	*0.00001482*	*0.00422185*	*0.00016775*	*0.00042159*	*0.00005450*	*0.00013681*
Conc Mean	<0.00112539[mg/l]	<0.00064155[mg/l]	0.03382400[mg/l]	<-0.11996700[mg/l]	<-0.06730970[mg/l]	0.00271122[mg/l]	<0.00116257[mg/l]
Conc RSD	*27.24850941*	*66.98849041*	*41.94625118*	*135.19051072*	*181.97525765*	*1.13527858*	*89.21183241*
Conc SD	*0.00030665[mg/l]*	*0.00042977[mg/l]*	*0.01418790[mg/l]*	*0.16218400[mg/l]*	*0.12248700[mg/l]*	*0.00003078[mg/l]*	*0.00103715[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	7319.0100000	4610.2900000	4897.1100000	3440.5000000	2528.4400000	2587.9800000	239.63100000
Int RSD	*1.62116188*	*0.46615289*	*0.21079780*	*0.56093010*	*0.81227555*	*0.52328071*	*34.60770935*
Int SD	*118.65300000*	*21.49100000*	*10.32300000*	*19.29880000*	*20.53790000*	*13.54240000*	*82.93080000*
RelInt Mean	0.01192310	0.00061315	-0.00031155	0.00047540	0.00006772	0.00040564	-0.00017233
RelInt RSD	*1.12463202*	*12.62437107*	*20.67508273*	*10.32088565*	*15.34833236*	*7.70890651*	*145.63791883*
RelInt SD	*0.00013409*	*0.00007741*	*0.00006441*	*0.00004907*	*0.00001039*	*0.00003127*	*0.00025097*
Conc Mean	<-0.25350800[mg/l]	<0.00234512[mg/l]	<-0.00621000[mg/l]	0.02184700[mg/l]	0.00377371[mg/l]	0.00584164[mg/l]	<-0.00109801[mg/l]
Conc RSD	*2.48620162*	*42.40431193*	*37.94524960*	*11.62837003*	*15.34829120*	*10.49277258*	*21.63459349*
Conc SD	*0.00630272[mg/l]*	*0.00099443[mg/l]*	*0.00235640[mg/l]*	*0.00254045[mg/l]*	*0.00057920[mg/l]*	*0.00061295[mg/l]*	*0.00023755[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	71271.900000	2515.3400000	8173.8900000	495915	23299500	285718	3241.8200000
Int RSD	*14.92257117*	*0.08548308*	*0.85850311*	*0.27394009*	*1.16011073*	*0.26501375*	*1.39350735*
Int SD	*10635.600000*	*2.15019000*	*70.17310000*	*1358.5100000*	*270300*	*757.19200000*	*45.17500000*
RelInt Mean	0.00151732	-0.00079915	0.00007390	---	---	---	0.00052009
RelInt RSD	*31.23612686*	*1.76710843*	*3.27973045*	---	---	---	*16.37594358*
RelInt SD	*0.00047395*	*0.00001412*	*0.00000242*	---	---	---	*0.00008517*
Conc Mean	0.01418010[mg/l]	<-0.02191610[mg/l]	<-0.00021835[mg/l]	489662	23251700	285469	<0.00022321[mg/l]
Conc RSD	*31.28786116*	*2.37289481*	*201.97710098*	---	---	---	*199.41490863*
Conc SD	*0.00443665[mg/l]*	*0.00052005[mg/l]*	*0.00044102[mg/l]*	*1402.8400000*	*269968*	*745.25900000*	*0.00044512[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-37.47890000	2894.2300000	5107.6800000	3717.4600000	4265.4100000	3879.7800000	
Int RSD	*243.62241154*	*2.90112396*	*0.54578008*	*2.31240417*	*0.99461013*	*0.24359680*	
Int SD	*91.30700000*	*83.96520000*	*27.87670000*	*85.96270000*	*42.42420000*	*9.45102000*	
RelInt Mean	-0.00061825	0.00049629	0.00279270	0.00093862	0.00042034	-0.00024172	
RelInt RSD	*38.63128695*	*30.58455388*	*3.22596770*	*19.69131179*	*20.04648629*	*8.49634698*	
RelInt SD	*0.00023884*	*0.00015179*	*0.00009009*	*0.00018483*	*0.00008426*	*0.00002054*	
Conc Mean	<-0.00169259[mg/l]	<-0.00277436[mg/l]	0.01566550[mg/l]	<0.01217570[mg/l]	<0.00071392[mg/l]	<-0.00709859[mg/l]	
Conc RSD	*57.36504410*	*58.94512608*	*9.01343717*	*40.23448344*	*51.92850199*	*20.01439723*	
Conc SD	*0.00097096[mg/l]*	*0.00163535[mg/l]*	*0.00141200[mg/l]*	*0.00489883[mg/l]*	*0.00037073[mg/l]*	*0.00142074[mg/l]*	

ENTHALPY SPIKE USER REPORT FOR 479661 METALS Wipe

EPA 6010B

Type:	BS	Type:	BSD
Inst:	MET06	Inst:	MET06
Seqnum:	483071211046.3	Seqnum:	483071211047.3
File:	met06_master011	File:	met06_master011
IDF:	1.0	IDF:	1.0
Lab ID:	QC1046521	Lab ID:	QC1046522
Matrix:	Wipe	Matrix:	Wipe
Batch:	307903	Batch:	307903
Time:	18-FEB-2023 13:23	Time:	18-FEB-2023 13:26
Cal:	483071211001	Cal:	483071211001
Units:	ug/ft2		

- BS: 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF
- BSD: 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Lead	100.0	2.125	106.3	A	106	2.071	103.5	A	104	80-120	3	20	**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BS Abund	%Drift
Yttrium	A	521757	490291	-6.03

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BSD Abund	%Drift
Yttrium	A	521757	502870	-3.62

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: BS,QC1046521,307903			Sample Type: Unknown Sample
Measure Date: 2023-02-18 13:23:24	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	615170	5289.5300000	26133.300000	84874.000000	282931	9158.2900000	153700
Int RSD	*1.05675017*	*1.07708057*	*0.74043844*	*0.15095671*	*0.17007362*	*1.58078637*	*0.12439558*
Int SD	*6500.8100000*	*56.97250000*	*193.50100000*	*128.12300000*	*481.19100000*	*144.77300000*	*191.19600000*
RelInt Mean	0.02597040	0.01748930	0.04816910	0.16779300	0.57460300	0.03272330	0.30779100
RelInt RSD	*1.20591520*	*1.79080924*	*1.11299775*	*0.23058590*	*0.18116856*	*1.09949180*	*0.22337918*
RelInt SD	*0.00031318*	*0.00031320*	*0.00053612*	*0.00038691*	*0.00104100*	*0.00035979*	*0.00068754*
Conc Mean	0.95632600[mg/l]	1.98009000[mg/l]	1.86336000[mg/l]	1.82821000[mg/l]	2.18871000[mg/l]	2.22694000[mg/l]	2.24681000[mg/l]
Conc RSD	*1.20820724*	*1.96666313*	*1.10941525*	*0.23148435*	*0.18092941*	*1.13250020*	*0.22187412*
Conc SD	*0.01155440[mg/l]*	*0.03894170[mg/l]*	*0.02067240[mg/l]*	*0.00423202[mg/l]*	*0.00396002[mg/l]*	*0.02522010[mg/l]*	*0.00498509[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	168298	1592240	331827	5044.3700000	2289.7600000	1977590	141555
Int RSD	*0.22233479*	*1.54256896*	*0.45243455*	*4.78222256*	*2.48003284*	*1.09513600*	*0.06360044*
Int SD	*374.18500000*	*24561.400000*	*1501.3000000*	*241.23300000*	*56.78680000*	*21657.300000*	*90.02960000*
RelInt Mean	0.33899200	0.06969900	0.67475300	0.01849010	0.00632670	4.07583000	0.28584200
RelInt RSD	*0.51690895*	*1.63062598*	*0.18442008*	*4.14572663*	*6.66548121*	*1.18480653*	*0.28852583*
RelInt SD	*0.00175228*	*0.00113653*	*0.00124438*	*0.00076655*	*0.00042171*	*0.04829070*	*0.00082473*
Conc Mean	2.22743000[mg/l]	2.00711000[mg/l]	2.26348000[mg/l]	18.03370000[mg/l]	1.92626000[mg/l]	2.30140000[mg/l]	2.16661000[mg/l]
Conc RSD	*0.51710267*	*1.64174858*	*0.18486799*	*4.10963918*	*6.36040825*	*1.18482228*	*0.28845616*
Conc SD	*0.01151810[mg/l]*	*0.03295170[mg/l]*	*0.00418445[mg/l]*	*0.74112000[mg/l]*	*0.12251800[mg/l]*	*0.02726750[mg/l]*	*0.00624972[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	20853.900000	85688.900000	33453.600000	21921.600000	16198.900000	2739.6300000	696968
Int RSD	*1.41845890*	*0.44065101*	*0.35224909*	*1.21867929*	*0.78395447*	*0.10167103*	*0.84675337*
Int SD	*295.80400000*	*377.58900000*	*117.84000000*	*267.15400000*	*126.99200000*	*2.78541000*	*5901.6000000*
RelInt Mean	0.06063220	0.16704600	0.05796490	0.03817690	0.02804630	0.00039889	2.49737000
RelInt RSD	*0.36974248*	*0.36280605*	*0.16895380*	*1.54649801*	*1.07004846*	*8.70234577*	*0.48615143*
RelInt SD	*0.00022418*	*0.00060605*	*0.00009793*	*0.00059041*	*0.00030011*	*0.00003471*	*0.01214100*
Conc Mean	2.03630000[mg/l]	2.14051000[mg/l]	2.12506000[mg/l]	1.96062000[mg/l]	1.56299000[mg/l]	0.00570939[mg/l]	2.36286000[mg/l]
Conc RSD	*0.51742376*	*0.36379695*	*0.16790491*	*1.55727270*	*1.07024997*	*11.91777055*	*0.48635975*
Conc SD	*0.01053630[mg/l]*	*0.00778711[mg/l]*	*0.00356808[mg/l]*	*0.03053220[mg/l]*	*0.01672790[mg/l]*	*0.00068043[mg/l]*	*0.01149200[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	5240150	30078.700000	264021	490291	22426400	279225	209739
Int RSD	*1.66447907*	*0.28469016*	*1.71403411*	*0.27158973*	*0.28104778*	*1.13727997*	*0.27359099*
Int SD	*87221.200000*	*85.63110000*	*4525.4100000*	*1331.5800000*	*63028.900000*	*3175.5700000*	*573.82700000*
RelInt Mean	0.23214900	0.05561340	0.01147620	---	---	---	0.42646500
RelInt RSD	*1.75573877*	*0.60417453*	*1.84282254*	---	---	---	*0.18637168*
RelInt SD	*0.00407593*	*0.00033600*	*0.00021149*	---	---	---	*0.00079481*
Conc Mean	2.17312000[mg/l]	2.08251000[mg/l]	2.07448000[mg/l]	483772	22377800	278940	2.22449000[mg/l]
Conc RSD	*1.75589015*	*0.60105354*	*1.85540955*	---	---	---	*0.18676775*
Conc SD	*0.03815760[mg/l]*	*0.01251700[mg/l]*	*0.03849010[mg/l]*	*1360.3700000*	*62956.300000*	*3230.5500000*	*0.00415463[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	141015	61914.000000	259819	5445.4900000	219801	4139.8900000	
Int RSD	*0.39080878*	*0.53453662*	*0.17012189*	*0.47655950*	*0.15432232*	*0.58521845*	
Int SD	*551.09900000*	*330.95300000*	*442.00900000*	*25.95100000*	*339.20200000*	*24.22740000*	
RelInt Mean	0.50490500	0.21093400	0.52766500	0.00419136	0.44384800	0.00001542	
RelInt RSD	*0.90736673*	*1.23752927*	*0.25270768*	*1.29467285*	*0.13062039*	*65.04368243*	
RelInt SD	*0.00458134*	*0.00261037*	*0.00133345*	*0.00005426*	*0.00057976*	*0.00001003*	
Conc Mean	2.05344000[mg/l]	2.26446000[mg/l]	8.07606000[mg/l]	0.09839030[mg/l]	1.92068000[mg/l]	0.01068950[mg/l]	
Conc RSD	*0.90707301*	*1.24203563*	*0.25348499*	*1.46182093*	*0.12724191*	*6.49018195*	
Conc SD	*0.01862620[mg/l]*	*0.02812540[mg/l]*	*0.02047160[mg/l]*	*0.00143829[mg/l]*	*0.00244391[mg/l]*	*0.00069377[mg/l]*	

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: BSD,QC1046522,307903			Sample Type: Unknown Sample
Measure Date: 2023-02-18 13:26:43	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	616194	5429.6700000	26310.200000	84799.300000	282898	9176.8100000	154347
Int RSD	*1.05234066*	*1.32995375*	*0.20814475*	*0.41057650*	*0.31887359*	*2.46166151*	*0.34393024*
Int SD	*6484.4600000*	*72.21210000*	*54.76330000*	*348.16600000*	*902.08700000*	*225.90200000*	*530.84600000*
RelInt Mean	0.02522740	0.01787700	0.04731660	0.16336100	0.55991400	0.03220390	0.30117900
RelInt RSD	*1.33128662*	*2.80214242*	*0.66449829*	*0.68418411*	*0.33213136*	*3.67362338*	*0.43104931*
RelInt SD	*0.00033585*	*0.00050094*	*0.00031442*	*0.00111769*	*0.00185965*	*0.00118305*	*0.00129823*
Conc Mean	0.92890800[mg/l]	2.02830000[mg/l]	1.83053000[mg/l]	1.77976000[mg/l]	2.13275000[mg/l]	2.19053000[mg/l]	2.19857000[mg/l]
Conc RSD	*1.33412566*	*3.07026574*	*0.66236008*	*0.68687351*	*0.33073075*	*3.78604721*	*0.43311971*
Conc SD	*0.01239280[mg/l]*	*0.06227420[mg/l]*	*0.01212470[mg/l]*	*0.01222470[mg/l]*	*0.00705366[mg/l]*	*0.08293450[mg/l]*	*0.00952244[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	167817	1581430	332226	5208.2300000	2328.8000000	1964370	141478
Int RSD	*0.35275449*	*1.26451376*	*0.46576728*	*4.20077454*	*4.10751031*	*1.55373479*	*0.15790865*
Int SD	*591.98200000*	*19997.400000*	*1547.4000000*	*218.78600000*	*95.65570000*	*30521.100000*	*223.40600000*
RelInt Mean	0.32941900	0.06711370	0.65843700	0.01853100	0.00629675	3.94567000	0.27840600
RelInt RSD	*0.29369071*	*0.75278222*	*0.20502189*	*5.72262695*	*6.96889665*	*1.32553660*	*0.71636387*
RelInt SD	*0.00096747*	*0.00050522*	*0.00134994*	*0.00106046*	*0.00043881*	*0.05230130*	*0.00199440*
Conc Mean	2.16450000[mg/l]	1.93215000[mg/l]	2.20865000[mg/l]	18.07330000[mg/l]	1.91756000[mg/l]	2.22790000[mg/l]	2.11023000[mg/l]
Conc RSD	*0.29362624*	*0.75836762*	*0.20539651*	*5.67251138*	*6.64876197*	*1.32571031*	*0.71627263*
Conc SD	*0.00635554[mg/l]*	*0.01465280[mg/l]*	*0.00453649[mg/l]*	*1.02521000[mg/l]*	*0.12749400[mg/l]*	*0.02953550[mg/l]*	*0.01511500[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	20901.700000	85896.500000	33446.900000	21989.900000	16260.100000	2716.9600000	699737
Int RSD	*1.17096695*	*0.78122974*	*0.58725323*	*0.69521917*	*0.47068161*	*0.85561804*	*1.07878674*
Int SD	*244.75200000*	*671.04900000*	*196.41800000*	*152.87800000*	*76.53330000*	*23.24680000*	*7548.6700000*
RelInt Mean	0.06003250	0.16322400	0.05648450	0.03734430	0.02746310	0.00031902	2.48384000
RelInt RSD	*2.90535960*	*0.53773281*	*0.25250290*	*1.32833926*	*0.11858239*	*17.37538987*	*2.00713411*
RelInt SD	*0.00174416*	*0.00087771*	*0.00014263*	*0.00049606*	*0.00003257*	*0.00005543*	*0.04985400*
Conc Mean	2.00810000[mg/l]	2.09140000[mg/l]	2.07089000[mg/l]	1.91788000[mg/l]	1.53049000[mg/l]	<0.00414370[mg/l]	2.35005000[mg/l]
Conc RSD	*4.08312833*	*0.53920819*	*0.25087233*	*1.33756022*	*0.11827389*	*26.22149287*	*2.00794451*
Conc SD	*0.08199330[mg/l]*	*0.01127700[mg/l]*	*0.00519529[mg/l]*	*0.02565280[mg/l]*	*0.00181017[mg/l]*	*0.00108654[mg/l]*	*0.04718770[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	5235490	30044.700000	265092	502870	23127900	281952	210257
Int RSD	*1.39441198*	*0.44236421*	*1.73701583*	*0.63240201*	*1.60654880*	*1.85488310*	*0.24166472*
Int SD	*73004.300000*	*132.90700000*	*4604.6900000*	*3180.1600000*	*371561*	*5229.8800000*	*508.11700000*
RelInt Mean	0.22490100	0.05416180	0.01117710	---	---	---	0.41667500
RelInt RSD	*0.86131231*	*0.58408694*	*1.50363690*	---	---	---	*0.41148857*
RelInt SD	*0.00193710*	*0.00031635*	*0.00016806*	---	---	---	*0.00171457*
Conc Mean	2.10527000[mg/l]	2.02839000[mg/l]	2.02008000[mg/l]	496353	23079000	281623	2.17338000[mg/l]
Conc RSD	*0.86142395*	*0.58509458*	*1.51448953*	---	---	---	*0.41183318*
Conc SD	*0.01813530[mg/l]*	*0.01186800[mg/l]*	*0.03059390[mg/l]*	*3212.1700000*	*371358*	*5181.7200000*	*0.00895070[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	140921	62234.000000	260021	5452.4700000	220464	4152.3700000	
Int RSD	*1.06879741*	*1.37490921*	*0.43955681*	*2.56942267*	*0.30149866*	*0.53586988*	
Int SD	*1506.1600000*	*855.66100000*	*1142.9400000*	*140.09700000*	*664.69600000*	*22.25130000*	
RelInt Mean	0.49962100	0.21008500	0.51479900	0.00408236	0.43390900	0.00000573	
RelInt RSD	*1.85635912*	*2.87905848*	*0.23385826*	*6.79085137*	*0.52658046*	*1349.6395846*	
RelInt SD	*0.00927476*	*0.00604847*	*0.00120390*	*0.00027723*	*0.00228488*	*0.00007733*	
Conc Mean	2.03196000[mg/l]	2.25531000[mg/l]	7.87855000[mg/l]	0.09550130[mg/l]	1.87762000[mg/l]	<0.01001920[mg/l]	
Conc RSD	*1.85564676*	*2.88960719*	*0.23179773*	*7.69415704*	*0.52642601*	*53.39078968*	
Conc SD	*0.03770600[mg/l]*	*0.06516960[mg/l]*	*0.01826230[mg/l]*	*0.00734802[mg/l]*	*0.00988428[mg/l]*	*0.00534933[mg/l]*	

ENTHALPY INITIAL CALIBRATION FOR 479661 METALS Wipe: EPA 6010B

Instrument:	MET06		
Calibration #:	483071211001	Date:	18-FEB-2023 10:51
Units:	mg/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	met06_master011	483071211002	L1	18-FEB-2023 10:54	S17856, S13369 (100X)
L2	met06_master011	483071211003	L2	18-FEB-2023 10:58	S17855, S13369 (100X)
L3	met06_master011	483071211004	L3	18-FEB-2023 11:01	S17854, S13369 (100X)
L4	met06_master011	483071211005	L4	18-FEB-2023 11:04	S17853, S13369 (100X)
L5	met06_master011	483071211006	L5	18-FEB-2023 11:08	S17852, S13369 (100X)
L6	met06_master011	483071211007	L6	18-FEB-2023 11:11	S17851, S13369 (100X)

Analyte	Ch	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Flags
Lead	A	WB1K	0.00517	36.5986		0.0192	1.000		7	0.995	

Instrument amount = a0 + (response × a1) + (response² × a2)
WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	-0.011	0.0138	0.0276	0.0291	0.0284	0.0270

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Lead	A	0.0033	15	0.0100	2	0.1000	6	1.0000	7	5.0000	4	10.000	-1

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06		
Calnum:	483071211001	Cal Date:	18-FEB-2023

- ICV 483071211011 (18-FEB-2023) stds: S17960, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	1.034	mg/l	3	10	

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICALBLK,CALBLANK			Sample Type: Calibration Sample
Measure Date: 2023-02-18 10:51:19	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	34017.400000	757.59100000	2689.2500000	3960.1900000	4625.8000000	335.18500000	4374.2800000
Int RSD	*0.39759064*	*13.09021622*	*0.28963391*	*0.76002667*	*0.88673094*	*19.78549159*	*0.57741846*
Int SD	*135.25000000*	*99.17030000*	*7.78898000*	*30.09850000*	*41.01840000*	*66.31800000*	*25.25790000*
RelInt Mean	0.00005298	0.00156328	-0.00018808	0.00059100	0.00009120	0.00094293	0.00005266
RelInt RSD	*4.82832748*	*8.15292206*	*18.21573079*	*11.16084995*	*48.68921825*	*12.10101715*	*110.44874753*
RelInt SD	*0.00000256*	*0.00012745*	*0.00003426*	*0.00006596*	*0.00004441*	*0.00011410*	*0.00005816*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3789.7800000	39824.000000	5856.3500000	-136.53000000	396.53100000	5349.5000000	3011.1500000
Int RSD	*0.80406778*	*0.16301828*	*7.26502002*	*70.14875851*	*19.69031425*	*0.42447332*	*0.72929944*
Int SD	*30.47240000*	*64.92040000*	*425.46500000*	*95.77410000*	*78.07820000*	*22.70720000*	*21.96030000*
RelInt Mean	0.00011555	0.00047752	0.00113293	-0.00016267	-0.00030382	0.00021627	0.00005759
RelInt RSD	*54.49854179*	*1.75608975*	*74.83763339*	*182.40805061*	*100.10433981*	*10.20349751*	*126.68303627*
RelInt SD	*0.00006297*	*0.00000839*	*0.00084786*	*0.00029673*	*0.00030413*	*0.00002207*	*0.00007295*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	8792.9600000	4851.8000000	4907.6300000	3347.5100000	2590.1800000	2607.6300000	156.18500000
Int RSD	*2.71864082*	*0.54345191*	*0.92640847*	*0.98492611*	*0.54422859*	*1.58304667*	*41.54432244*
Int SD	*239.04900000*	*26.36720000*	*45.46470000*	*32.97050000*	*14.09650000*	*41.28000000*	*64.88600000*
RelInt Mean	0.01726410	0.00042444	-0.00014577	0.00005091	-0.00000817	0.00010520	-0.00025267
RelInt RSD	*1.58758348*	*18.84511356*	*62.72668651*	*82.17347235*	*643.28864852*	*96.31847606*	*34.49800929*
RelInt SD	*0.00027408*	*0.00007999*	*0.00009144*	*0.00004183*	*0.00005255*	*0.00010133*	*0.00008717*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	37042.000000	2498.4800000	8667.4200000	521757	24031400	302682	3277.5500000
Int RSD	*0.64552670*	*0.75716035*	*1.11210602*	*0.65721974*	*0.44856313*	*0.45525667*	*0.61550548*
Int SD	*239.11600000*	*18.91750000*	*96.39090000*	*3429.0900000*	*107796*	*1377.9800000*	*20.17350000*
RelInt Mean	-0.00000058	-0.00022149	0.00007500	---	---	---	0.00034269
RelInt RSD	*1947.3136072*	*12.64845048*	*1.87099166*	---	---	---	*12.03934179*
RelInt SD	*0.00001137*	*0.00002801*	*0.00000140*	---	---	---	*0.00004126*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	44.49630000	2710.2500000	4816.5500000	4023.4200000	4451.8300000	4517.3100000	
Int RSD	*193.93297870*	*9.80433539*	*1.08847827*	*1.65235297*	*0.75094736*	*0.36523064*	
Int SD	*86.29300000*	*265.72200000*	*52.42710000*	*66.48110000*	*33.43090000*	*16.49860000*	
RelInt Mean	-0.00020399	0.00074653	0.00177704	0.00047924	0.00026968	-0.00013910	
RelInt RSD	*135.30709387*	*36.77768758*	*5.87921487*	*28.55810401*	*30.35059811*	*22.60704221*	
RelInt SD	*0.00027602*	*0.00027456*	*0.00010448*	*0.00013686*	*0.00008185*	*0.00003145*	

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICAL,L1,S17856			Sample Type: Calibration Sample
Measure Date: 2023-02-18 10:54:40	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	32955.800000	711.60000000	2758.7300000	4073.4700000	5159.7600000	319.46000000	4484.0400000
Int RSD	*1.62450919*	*8.92200675*	*0.60244025*	*0.29967816*	*1.08957781*	*2.53902836*	*0.62353146*
Int SD	*535.37000000*	*63.48900000*	*16.61970000*	*12.20730000*	*56.21960000*	*8.11118000*	*27.95940000*
RelInt Mean	0.00004200	0.00133901	-0.00007570	0.00079922	0.00111642	0.00086059	0.00028332
RelInt RSD	*18.44993285*	*18.14676515*	*64.18501126*	*6.55874868*	*7.79288261*	*23.23019056*	*12.24886699*
RelInt SD	*0.00000775*	*0.00024299*	*0.00004859*	*0.00005242*	*0.00008700*	*0.00019992*	*0.00003470*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4066.7000000	41885.700000	7785.6900000	-167.38500000	421.30800000	9086.4800000	3234.9600000
Int RSD	*0.76542159*	*1.09822207*	*1.06666333*	*38.64187353*	*41.41032214*	*0.47064430*	*0.52918120*
Int SD	*31.12740000*	*459.99800000*	*83.04710000*	*64.68070000*	*174.46500000*	*42.76500000*	*17.11880000*
RelInt Mean	0.00067345	0.00060386	0.00486884	-0.00028360	-0.00023608	0.00750148	0.00051725
RelInt RSD	*2.60157724*	*0.67110811*	*2.64186131*	*26.00947824*	*213.21433261*	*2.29726667*	*10.03199601*
RelInt SD	*0.00001752*	*0.00000405*	*0.00012863*	*0.00007376*	*0.00050335*	*0.00017233*	*0.00005189*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	8397.1700000	4985.8800000	4938.9500000	3423.4700000	2670.6100000	2664.8000000	5650.5500000
Int RSD	*3.16750762*	*0.58253708*	*0.48409075*	*1.16312981*	*1.26752689*	*0.69599970*	*5.46872428*
Int SD	*265.98100000*	*29.04460000*	*23.90900000*	*39.81940000*	*33.85070000*	*18.54700000*	*309.01300000*
RelInt Mean	0.01601490	0.00069461	-0.00003666	0.00021504	0.00019094	0.00021910	0.01794490
RelInt RSD	*2.47848566*	*4.56335741*	*124.08278278*	*15.70876522*	*18.90415264*	*20.09278783*	*6.42277193*
RelInt SD	*0.00039693*	*0.00003170*	*0.00004549*	*0.00003378*	*0.00003610*	*0.00004402*	*0.00115256*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	45074.400000	2629.7600000	8610.6200000	520305	23805200	302618	4970.6800000
Int RSD	*0.84038390*	*1.34169278*	*1.25656457*	*1.13043503*	*0.25694806*	*0.24230879*	*1.50301971*
Int SD	*378.79800000*	*35.28330000*	*108.19800000*	*5881.7100000*	*61167.000000*	*733.27000000*	*74.71030000*
RelInt Mean	0.00035309	0.00004646	0.00008295	---	---	---	0.00365248
RelInt RSD	*3.02895563*	*125.31054864*	*2.00787933*	---	---	---	*3.39988172*
RelInt SD	*0.00001070*	*0.00005822*	*0.00000167*	---	---	---	*0.00012418*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	22.23590000	2818.0000000	4597.0200000	4085.3200000	4583.1700000	4452.1900000	
Int RSD	*426.86061729*	*9.36859475*	*1.03726545*	*1.12786269*	*0.24122823*	*0.71766928*	
Int SD	*94.91630000*	*264.00700000*	*47.68330000*	*46.07680000*	*11.05590000*	*31.95200000*	
RelInt Mean	-0.00035601	0.00120321	0.00136986	0.00055395	0.00052322	-0.00026950	
RelInt RSD	*70.85744301*	*47.58429534*	*9.16626517*	*24.59288062*	*9.28629858*	*12.96335051*	
RelInt SD	*0.00025226*	*0.00057254*	*0.00012557*	*0.00013623*	*0.00004859*	*0.00003494*	

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICAL,L2,S17855			Sample Type: Calibration Sample
Measure Date: 2023-02-18 10:58:00	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	33543.400000	844.63100000	2833.4700000	4395.0300000	6064.9800000	507.85500000	4698.1500000
Int RSD	*0.59734553*	*11.28354275*	*0.90789385*	*0.58677870*	*0.96132881*	*4.18666745*	*0.60014474*
Int SD	*200.37000000*	*95.30430000*	*25.72490000*	*25.78910000*	*58.30440000*	*21.26220000*	*28.19570000*
RelInt Mean	0.00004369	0.00177960	0.00007156	0.00140751	0.00288295	0.00157029	0.00068392
RelInt RSD	*33.74258686*	*12.37176894*	*13.01954663*	*2.27771739*	*5.11333877*	*15.24762942*	*1.95104405*
RelInt SD	*0.00001474*	*0.00022017*	*0.00000932*	*0.00003206*	*0.00014742*	*0.00023943*	*0.00001334*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4643.5800000	47095.400000	9398.6600000	-193.24100000	451.28800000	15530.100000	3694.3300000
Int RSD	*0.31957240*	*0.22108953*	*0.24614573*	*39.84832411*	*13.58212494*	*2.04835771*	*0.84295664*
Int SD	*14.83960000*	*104.12300000*	*23.13440000*	*77.00330000*	*61.29450000*	*318.11200000*	*31.14160000*
RelInt Mean	0.00180646	0.00078808	0.00800511	-0.00034730	-0.00027939	0.02000310	0.00134924
RelInt RSD	*0.45178803*	*0.35244093*	*0.42418780*	*76.23747837*	*19.02357312*	*2.75877239*	*3.43749074*
RelInt SD	*0.00000816*	*0.00000278*	*0.00003396*	*0.00026477*	*0.00005315*	*0.00055184*	*0.00004638*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	8701.9900000	5321.3900000	5060.4900000	3658.1000000	2894.6100000	2829.3800000	17773.700000
Int RSD	*1.14712842*	*0.19938963*	*0.92494007*	*0.53373336*	*0.73478983*	*1.13566223*	*2.35719068*
Int SD	*99.82300000*	*10.61030000*	*46.80650000*	*19.52450000*	*21.26930000*	*32.13220000*	*418.96000000*
RelInt Mean	0.01694180	0.00130160	0.00013772	0.00060413	0.00057411	0.00051508	0.05828110
RelInt RSD	*1.37968811*	*1.94073448*	*55.29233651*	*7.16250037*	*9.31915487*	*14.95201726*	*2.39302278*
RelInt SD	*0.00023374*	*0.00002526*	*0.00007615*	*0.00004327*	*0.00005350*	*0.00007702*	*0.00139468*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	62512.900000	2922.6100000	9271.8600000	519177	24075500	300862	6629.8500000
Int RSD	*0.90410299*	*0.22201115*	*0.93228651*	*0.66206708*	*0.58596083*	*0.44037133*	*0.53747219*
Int SD	*565.18100000*	*6.48852000*	*86.44030000*	*3437.3000000*	*141073*	*1324.9100000*	*35.63360000*
RelInt Mean	0.00104927	0.00061611	0.00010525	---	---	---	0.00683863
RelInt RSD	*2.68545751*	*10.50437667*	*5.83751401*	---	---	---	*1.92890974*
RelInt SD	*0.00002818*	*0.00006472*	*0.00000614*	---	---	---	*0.00013191*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-13.00040000	3086.8600000	4534.4200000	4090.0000000	4965.2900000	4368.0600000	
Int RSD	*123.11159657*	*8.66971615*	*0.40162579*	*0.88533741*	*0.98044022*	*0.59630591*	
Int SD	*16.00500000*	*267.62200000*	*18.21140000*	*36.21030000*	*48.68170000*	*26.04700000*	
RelInt Mean	-0.00064588	0.00194381	0.00123794	0.00057276	0.00126369	-0.00051182	
RelInt RSD	*5.32893311*	*19.78161446*	*6.75445498*	*15.93781318*	*11.25244324*	*14.78091736*	
RelInt SD	*0.00003442*	*0.00038452*	*0.00008362*	*0.00009129*	*0.00014220*	*0.00007565*	

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICAL,L3,S17854			Sample Type: Calibration Sample
Measure Date: 2023-02-18 11:01:22	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	34170.900000	1083.8300000	4123.5300000	8831.2900000	19248.600000	4405.3000000	8615.5000000
Int RSD	*0.24358358*	*10.81147412*	*0.56326012*	*0.47027897*	*0.28926519*	*8.24633964*	*0.92186408*
Int SD	*83.23470000*	*117.17800000*	*23.22620000*	*41.53170000*	*55.67950000*	*363.27600000*	*79.42320000*
RelInt Mean	0.00003519	0.00239434	0.00230760	0.00961184	0.02772890	0.01424700	0.00788514
RelInt RSD	*23.13576178*	*19.71177861*	*2.30543855*	*0.90256392*	*0.51709949*	*9.59465151*	*1.77456583*
RelInt SD	*0.00000814*	*0.00047197*	*0.00005320*	*0.00008675*	*0.00014339*	*0.00136695*	*0.00013993*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	12476.100000	116867	40410.900000	-22.50020000	1303.5400000	108120	9970.4300000
Int RSD	*0.40620947*	*1.00603250*	*0.42695411*	*127.56642163*	*8.70337696*	*0.23256382*	*0.08653950*
Int SD	*50.67910000*	*1175.7200000*	*172.53600000*	*28.70270000*	*113.45200000*	*251.44800000*	*8.62836000*
RelInt Mean	0.01647570	0.00364918	0.06668790	0.00018937	0.00256190	0.19596300	0.01316650
RelInt RSD	*0.54914025*	*1.21952329*	*0.47900444*	*67.66662794*	*6.65685624*	*0.26806591*	*0.26941101*
RelInt SD	*0.00009047*	*0.00004450*	*0.00031944*	*0.00012814*	*0.00017054*	*0.00052531*	*0.00003547*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	21726.000000	9143.1700000	6588.2600000	6425.6700000	5601.5900000	5403.3800000	177552
Int RSD	*3.27630949*	*0.13801887*	*0.57259125*	*1.49345204*	*1.09736878*	*0.39522669*	*0.49635431*
Int SD	*711.81100000*	*12.61930000*	*37.72380000*	*95.96430000*	*61.47010000*	*21.35560000*	*881.28700000*
RelInt Mean	0.05898580	0.00830073	0.00276145	0.00569492	0.00555697	0.00530077	0.58241300
RelInt RSD	*3.52913752*	*0.49023399*	*2.41337703*	*3.69420466*	*2.53938747*	*0.91212597*	*0.39213582*
RelInt SD	*0.00208169*	*0.00004069*	*0.00006664*	*0.00021038*	*0.00014111*	*0.00004835*	*0.00228385*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	295566	6857.1900000	15593.800000	530253	24145600	304681	36621.900000
Int RSD	*1.16977257*	*0.17512567*	*0.77190294*	*0.13158304*	*0.19526415*	*0.84475566*	*0.86374273*
Int SD	*3457.4500000*	*12.00870000*	*120.36900000*	*697.72300000*	*47147.700000*	*2573.8100000*	*316.31900000*
RelInt Mean	0.01067730	0.00796965	0.00035289	---	---	---	0.06371780
RelInt RSD	*1.23697939*	*0.29699297*	*1.45976650*	---	---	---	*0.93669430*
RelInt SD	*0.00013208*	*0.00002367*	*0.00000515*	---	---	---	*0.00059684*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	1104.9600000	5845.3000000	4700.8700000	4269.9400000	10627.000000	4492.8300000	
Int RSD	*26.16990660*	*6.82464544*	*0.62438442*	*1.48429720*	*0.33177190*	*1.06041181*	
Int SD	*289.16700000*	*398.92100000*	*29.35150000*	*63.37860000*	*35.25740000*	*47.64250000*	
RelInt Mean	0.00309264	0.01061580	0.00125820	0.00074438	0.01175660	-0.00041703	
RelInt RSD	*30.48993740*	*7.65222593*	*4.69908600*	*11.33310495*	*0.75679023*	*28.31639627*	
RelInt SD	*0.00094294*	*0.00081235*	*0.00005912*	*0.00008436*	*0.00008897*	*0.00011809*	

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICAL,L4,S17853			Sample Type: Calibration Sample
Measure Date: 2023-02-18 11:04:42	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	34767.600000	5456.6600000	16666.800000	51076.400000	145264	45032.500000	41658.100000
Int RSD	*0.24275245*	*2.20295932*	*0.82539540*	*0.32270481*	*0.19187824*	*0.44979959*	*0.48649842*
Int SD	*84.39920000*	*120.20800000*	*137.56700000*	*164.82600000*	*278.73000000*	*202.55600000*	*202.66600000*
RelInt Mean	0.00002886	0.01664820	0.02681720	0.09257050	0.27545800	0.15341700	0.07255460
RelInt RSD	*5.89555834*	*2.95293786*	*0.97868905*	*0.22300733*	*0.41357666*	*0.38303187*	*0.25712360*
RelInt SD	*0.00000170*	*0.00049161*	*0.00026246*	*0.00020644*	*0.00113923*	*0.00058764*	*0.00018656*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	86876.700000	811200	330826	5242.1600000	10768.500000	985942	70394.200000
Int RSD	*0.47741339*	*1.18795118*	*0.33200534*	*4.73312528*	*1.15746854*	*0.25637918*	*0.28020632*
Int SD	*414.76100000*	*9636.6600000*	*1098.3600000*	*248.11800000*	*124.64200000*	*2527.7500000*	*197.24900000*
RelInt Mean	0.16252600	0.03310590	0.63820000	0.01810290	0.03506370	1.92376000	0.13181000
RelInt RSD	*0.73578997*	*0.67049378*	*0.11975995*	*4.01778721*	*1.14548664*	*0.19469632*	*0.62055307*
RelInt SD	*0.00119585*	*0.00022197*	*0.00076431*	*0.00072734*	*0.00040165*	*0.00374549*	*0.00081795*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	138021	46806.200000	20136.100000	33267.900000	31630.000000	29637.200000	1714940
Int RSD	*0.64837887*	*0.17761301*	*1.13656070*	*0.26822613*	*0.94414164*	*0.15657754*	*0.58045763*
Int SD	*894.89900000*	*83.13390000*	*228.85900000*	*89.23320000*	*298.63200000*	*46.40520000*	*9954.5000000*
RelInt Mean	0.45804800	0.08204860	0.02914090	0.05810530	0.05663460	0.05278030	5.85754000
RelInt RSD	*0.10490713*	*0.50692882*	*1.16355706*	*0.53170365*	*1.01339464*	*0.55054822*	*0.86977298*
RelInt SD	*0.00048052*	*0.00041593*	*0.00033907*	*0.00030895*	*0.00057393*	*0.00029058*	*0.05094730*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	2606410	45150.400000	74925.800000	515753	23599100	292964	326832
Int RSD	*1.69371281*	*0.23850730*	*1.31584314*	*0.31193226*	*0.58536131*	*0.76043473*	*0.08746757*
Int SD	*44145.100000*	*107.68700000*	*985.90600000*	*1608.8000000*	*138140*	*2227.8000000*	*285.87200000*
RelInt Mean	0.10888100	0.08302760	0.00286907	---	---	---	0.63444900
RelInt RSD	*1.27045123*	*0.42471058*	*0.88997829*	---	---	---	*0.33312843*
RelInt SD	*0.00138328*	*0.00035263*	*0.00002553*	---	---	---	*0.00211353*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	21846.600000	32015.200000	5921.8600000	5170.7700000	64198.500000	4666.3500000	
Int RSD	*1.25467121*	*0.88130013*	*0.41300200*	*1.37094282*	*0.20774317*	*0.87502009*	
Int SD	*274.10300000*	*282.15000000*	*24.45740000*	*70.88830000*	*133.36800000*	*40.83150000*	
RelInt Mean	0.07400940	0.09982470	0.00352167	0.00235038	0.11665900	-0.00028050	
RelInt RSD	*0.97790686*	*0.93655779*	*1.15383327*	*6.79026370*	*0.49983885*	*31.08672635*	
RelInt SD	*0.00072374*	*0.00093492*	*0.00004063*	*0.00015960*	*0.00058311*	*0.00008720*	

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICAL,L5,S17852			Sample Type: Calibration Sample
Measure Date: 2023-02-18 11:08:02	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	36908.000000	25311.000000	69672.800000	238169	673482	211077	183330
Int RSD	*0.31720765*	*2.82611908*	*0.07713240*	*0.06881920*	*0.39790076*	*0.49820682*	*0.33490100*
Int SD	*117.07500000*	*715.31900000*	*53.74030000*	*163.90600000*	*2679.7900000*	*1051.6000000*	*613.97400000*
RelInt Mean	-0.00000011	0.08384710	0.13106100	0.46244400	1.32103000	0.72563400	0.35178100
RelInt RSD	*3219.8963175*	*3.28410881*	*0.25370934*	*0.15486502*	*0.52936421*	*0.24110778*	*0.22365648*
RelInt SD	*0.00000360*	*0.00275363*	*0.00033251*	*0.00071616*	*0.00699306*	*0.00174956*	*0.00078678*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	397826	3948140	1548280	30056.000000	50853.900000	4596450	336130
Int RSD	*0.11858325*	*1.49457719*	*0.20232839*	*4.38394996*	*1.89362074*	*0.21070718*	*0.24646565*
Int SD	*471.75500000*	*59008.000000*	*3132.6100000*	*1317.6400000*	*962.98000000*	*9685.0500000*	*828.44500000*
RelInt Mean	0.77647400	0.17095700	3.04981000	0.10346800	0.17284000	9.07895000	0.65723200
RelInt RSD	*0.18500555*	*2.07921875*	*0.34713638*	*4.63397379*	*2.28705161*	*0.36295937*	*0.23053199*
RelInt SD	*0.00143652*	*0.00355457*	*0.01058700*	*0.00479468*	*0.00395294*	*0.03295290*	*0.00151513*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	656931	205494	77630.500000	153437	142041	133238	8103500
Int RSD	*0.55143843*	*0.07804705*	*0.32295683*	*0.14790305*	*0.33608676*	*0.03316832*	*0.57555871*
Int SD	*3622.5700000*	*160.38200000*	*250.71300000*	*226.93800000*	*477.38100000*	*44.19280000*	*46640.400000*
RelInt Mean	2.24286000	0.39491900	0.14181800	0.29488400	0.27472900	0.25721900	27.86820000
RelInt RSD	*0.55748910*	*0.11385980*	*0.46015104*	*0.08624917*	*0.20878356*	*0.13851815*	*0.66740586*
RelInt SD	*0.01250370*	*0.00044965*	*0.00065258*	*0.00025433*	*0.00057359*	*0.00035629*	*0.18599400*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	12322200	207998	326490	512201	22898600	291033	1536910
Int RSD	*1.13840873*	*0.12942480*	*1.22556280*	*0.15148409*	*0.61092818*	*0.28509585*	*0.51723783*
Int SD	*140277*	*269.20100000*	*4001.3400000*	*775.90300000*	*139894*	*829.72300000*	*7949.4800000*
RelInt Mean	0.53674700	0.40469200	0.01391390	---	---	---	3.03086000
RelInt RSD	*1.61417204*	*0.30944027*	*1.73636436*	---	---	---	*0.61638611*
RelInt SD	*0.00866402*	*0.00125228*	*0.00024160*	---	---	---	*0.01868180*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	112771	138768	11440.300000	8932.9100000	295421	5346.1100000	
Int RSD	*1.13618750*	*0.35568143*	*0.29621950*	*0.66556363*	*0.21113902*	*0.85891611*	
Int SD	*1281.2900000*	*493.57200000*	*33.88840000*	*59.45420000*	*623.74900000*	*45.91860000*	
RelInt Mean	0.38713800	0.46627100	0.01351840	0.00894877	0.57208000	0.00028358	
RelInt RSD	*1.44880637*	*0.21834084*	*0.38054208*	*1.58639679*	*0.06563225*	*28.16473127*	
RelInt SD	*0.00560888*	*0.00101806*	*0.00005144*	*0.00014196*	*0.00037547*	*0.00007987*	

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICAL,L6,S17851			Sample Type: Calibration Sample
Measure Date: 2023-02-18 11:11:23	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	39136.700000	48108.600000	132040	458125	1301190	409247	343051
Int RSD	*0.52134953*	*0.92845978*	*0.43240912*	*0.51907885*	*0.43329183*	*0.34798300*	*0.64319299*
Int SD	*204.03900000*	*446.66900000*	*570.95300000*	*2378.0300000*	*5637.9500000*	*1424.1100000*	*2206.4800000*
RelInt Mean	-0.00002947	0.16157800	0.25810300	0.91277800	2.60723000	1.42064000	0.67816200
RelInt RSD	*24.37512726*	*0.61323138*	*0.32411130*	*0.36087526*	*0.12403202*	*0.10445433*	*0.14752375*
RelInt SD	*0.00000718*	*0.00099085*	*0.00083654*	*0.00329399*	*0.00323380*	*0.00148392*	*0.00100045*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	757763	7741910	2942560	59468.100000	99571.300000	8736710	660198
Int RSD	*0.32496176*	*1.41143465*	*0.33700111*	*0.23564230*	*0.15247667*	*0.33935085*	*0.52436996*
Int SD	*2462.4400000*	*109272*	*9916.4600000*	*140.13200000*	*151.82300000*	*29648.100000*	*3461.8800000*
RelInt Mean	1.51226000	0.34651700	5.91037000	0.20682000	0.34326700	17.57580000	1.32029000
RelInt RSD	*0.24997157*	*0.36906703*	*0.21692212*	*0.30049705*	*0.31773517*	*0.21431343*	*0.28857827*
RelInt SD	*0.00378022*	*0.00127888*	*0.01282090*	*0.00062149*	*0.00109068*	*0.03766730*	*0.00381007*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1220790	392095	141006	291821	269312	256440	14974000
Int RSD	*0.37182398*	*0.37683980*	*0.58394395*	*0.51834858*	*0.21795538*	*0.45523319*	*0.63254909*
Int SD	*4539.1900000*	*1477.5700000*	*823.39600000*	*1512.6500000*	*586.98000000*	*1167.4000000*	*94717.900000*
RelInt Mean	4.21805000	0.77573200	0.27022500	0.57692000	0.53516200	0.50906100	51.98140000
RelInt RSD	*0.73483482*	*0.24309813*	*0.10266963*	*0.05231488*	*0.46169758*	*0.18329827*	*0.97769202*
RelInt SD	*0.03099570*	*0.00188579*	*0.00027744*	*0.00030181*	*0.00247083*	*0.00093310*	*0.50821800*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	23742100	399899	619571	503674	22236000	288274	2812760
Int RSD	*1.75476053*	*0.54931370*	*0.71745611*	*0.55083050*	*1.11703544*	*0.43011163*	*0.72953611*
Int SD	*416617*	*2196.7000000*	*4445.1500000*	*2774.3900000*	*248384*	*1239.9000000*	*20520.100000*
RelInt Mean	1.06674000	0.79686500	0.02748530	---	---	---	5.65028000
RelInt RSD	*0.67129104*	*0.47212012*	*0.67098776*	---	---	---	*0.21268857*
RelInt SD	*0.00716093*	*0.00376216*	*0.00018442*	---	---	---	*0.01201750*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	209859	271081	17451.500000	13442.700000	579986	6144.6400000	
Int RSD	*0.69750166*	*0.45880014*	*0.95689196*	*0.33893191*	*0.49495677*	*0.16276462*	
Int SD	*1463.7700000*	*1243.7200000*	*166.99200000*	*45.56160000*	*2870.6800000*	*10.00130000*	
RelInt Mean	0.72794500	0.92752700	0.02518090	0.01732700	1.15257000	0.00121569	
RelInt RSD	*0.49885362*	*0.27132148*	*0.70117033*	*1.23693080*	*0.13905099*	*5.30427165*	
RelInt SD	*0.00363138*	*0.00251658*	*0.00017656*	*0.00021432*	*0.00160266*	*0.00006448*	

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICAL,L7,S17857			Sample Type: Calibration Sample
Measure Date: 2023-02-18 11:14:43	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	1363610	749.45100000	2844.0500000	5454.3400000	4883.8200000	276.39100000	4500.0200000
Int RSD	*0.73700692*	*6.07153770*	*1.15635098*	*4.46088803*	*0.23326003*	*7.97645365*	*1.22566122*
Int SD	*10049.900000*	*45.50320000*	*32.88720000*	*243.31200000*	*11.39200000*	*22.04620000*	*55.15500000*
RelInt Mean	0.05425510	0.00135769	-0.00007005	0.00312044	0.00033364	0.00074307	0.00005160
RelInt RSD	*1.26780155*	*24.81693170*	*85.83212580*	*14.53496943*	*5.95883575*	*10.59909967*	*183.56437025*
RelInt SD	*0.00068785*	*0.00033694*	*0.00006012*	*0.00045356*	*0.00001988*	*0.00007876*	*0.00009472*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4008.5700000	43941.400000	7334.7200000	-148.32600000	404.58600000	6263.7700000	4539.7600000
Int RSD	*1.48404044*	*6.00137911*	*10.03492976*	*6.80588703*	*37.09965248*	*1.43230834*	*10.37063633*
Int SD	*59.48880000*	*2637.0900000*	*736.03400000*	*10.09490000*	*150.10000000*	*89.71650000*	*470.80200000*
RelInt Mean	0.00033960	0.00062033	0.00356248	-0.00022759	-0.00043609	0.00167407	0.00276416
RelInt RSD	*28.01992356*	*18.21106966*	*39.21144820*	*13.96869823*	*69.00676921*	*9.47463368*	*31.72728786*
RelInt SD	*0.00009516*	*0.00011297*	*0.00139690*	*0.00003179*	*0.00030093*	*0.00015861*	*0.00087699*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	7041.5600000	5010.8300000	5069.2900000	3959.7800000	2827.0300000	3160.8400000	761.56800000
Int RSD	*1.79694556*	*1.03763448*	*0.12408030*	*3.81493416*	*1.16175279*	*6.68521659*	*19.38014728*
Int SD	*126.53300000*	*51.99410000*	*6.28999000*	*151.06300000*	*32.84310000*	*211.30900000*	*147.59300000*
RelInt Mean	0.01048340	0.00041249	-0.00008740	0.00099217	0.00031439	0.00100669	0.00160406
RelInt RSD	*3.44041055*	*20.10490053*	*14.70234561*	*30.72292982*	*35.63419840*	*41.51397153*	*16.05837687*
RelInt SD	*0.00036067*	*0.00008293*	*0.00001285*	*0.00030482*	*0.00011203*	*0.00041792*	*0.00025759*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	106948	3205.2600000	9238.6700000	540250	24529100	306064	3819.2500000
Int RSD	*16.34953435*	*13.16089802*	*2.65052221*	*0.07603609*	*0.81644659*	*0.78624079*	*2.17563396*
Int SD	*17485.500000*	*421.84100000*	*244.87300000*	*410.78500000*	*200267*	*2406.4000000*	*83.09290000*
RelInt Mean	0.00281730	0.00097320	0.00009177	---	---	---	0.00115904
RelInt RSD	*25.13356760*	*79.52045047*	*10.88591637*	---	---	---	*15.88978810*
RelInt SD	*0.00070809*	*0.00077390*	*0.00000999*	---	---	---	*0.00018417*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-27.94480000	2969.2900000	4469.4200000	4201.1800000	4608.5000000	4398.4800000	
Int RSD	*332.82471157*	*4.98533319*	*0.44146668*	*1.12866385*	*0.57880004*	*0.64736909*	
Int SD	*93.00720000*	*148.02900000*	*19.73100000*	*47.41720000*	*26.67400000*	*28.47440000*	
RelInt Mean	-0.00063538	0.00096224	0.00082510	0.00058913	0.00030210	-0.00056946	
RelInt RSD	*68.46673581*	*38.08841869*	*8.33362825*	*15.94267819*	*23.36462581*	*17.79060089*	
RelInt SD	*0.00043503*	*0.00036650*	*0.00006876*	*0.00009392*	*0.00007058*	*0.00010131*	

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICAL,L8,S17858			Sample Type: Calibration Sample
Measure Date: 2023-02-18 11:18:03	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	34851.300000	761.74900000	2819.9900000	4808.4100000	4950.8500000	243.90300000	4588.3000000
Int RSD	*0.33605346*	*21.36871857*	*1.04940798*	*1.01454951*	*0.10780432*	*31.03496062*	*1.08361485*
Int SD	*117.11900000*	*162.77600000*	*29.59320000*	*48.78370000*	*5.33723000*	*75.69520000*	*49.71950000*
RelInt Mean	0.00004630	0.00152803	-0.00022741	0.00173530	0.00014014	0.00072785	-0.00006397
RelInt RSD	*13.46911050*	*32.43313286*	*16.60904554*	*1.94403273*	*42.39036121*	*19.60008189*	*87.11172041*
RelInt SD	*0.00000624*	*0.00049559*	*0.00003777*	*0.00003373*	*0.00005941*	*0.00014266*	*0.00005573*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4016.1800000	40928.500000	6147.0300000	-155.67700000	472.02600000	5862.3200000	3463.4500000
Int RSD	*0.93023221*	*0.27044969*	*1.00957373*	*13.41386332*	*12.61788546*	*0.53161547*	*2.36141997*
Int SD	*37.35980000*	*110.69100000*	*62.05880000*	*20.88230000*	*59.55970000*	*31.16500000*	*81.78660000*
RelInt Mean	0.00026113	0.00047467	0.00110557	-0.00021457	-0.00004474	0.00066853	0.00063103
RelInt RSD	*41.87776923*	*1.91157033*	*3.07828541*	*27.98475083*	*432.97233864*	*0.66168804*	*14.49773466*
RelInt SD	*0.00010936*	*0.00000907*	*0.00003403*	*0.00006005*	*0.00019370*	*0.00000442*	*0.00009149*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	7117.1500000	5087.2300000	5189.1000000	3671.6300000	2756.4100000	2790.6200000	224.48400000
Int RSD	*1.19025734*	*0.60172432*	*0.59160741*	*0.14582188*	*0.39740460*	*0.72336255*	*32.72019387*
Int SD	*84.71240000*	*30.61110000*	*30.69910000*	*5.35404000*	*10.95410000*	*20.18630000*	*73.45160000*
RelInt Mean	0.01052170	0.00037200	-0.00017108	0.00029477	0.00007195	0.00020928	-0.00018654
RelInt RSD	*2.30834371*	*10.48142473*	*24.85635795*	*17.59664282*	*34.74236218*	*7.96169761*	*129.46950285*
RelInt SD	*0.00024288*	*0.00003899*	*0.00004253*	*0.00005187*	*0.00002500*	*0.00001666*	*0.00024152*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	62324.800000	2664.6900000	8933.6400000	534902	24771000	306164	3660.6600000
Int RSD	*1.63753434*	*1.06468670*	*0.94738203*	*4.09714303*	*0.80983812*	*0.38842254*	*0.88321232*
Int SD	*1020.5900000*	*28.37060000*	*84.63570000*	*21915.700000*	*200605*	*1189.2100000*	*32.33140000*
RelInt Mean	0.00096882	-0.00012119	0.00007322	---	---	---	0.00072869
RelInt RSD	*5.96344821*	*29.31682964*	*2.86806037*	---	---	---	*3.42684425*
RelInt SD	*0.00005777*	*0.00003553*	*0.00000210*	---	---	---	*0.00002497*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-54.91990000	2983.3000000	348054	204020	4642.6400000	81228.900000	
Int RSD	*218.55101703*	*2.17497737*	*3.40832170*	*3.44448583*	*0.74777497*	*1.67088315*	
Int SD	*120.02800000*	*64.88610000*	*11862.800000*	*7027.4400000*	*34.71650000*	*1357.2400000*	
RelInt Mean	-0.00056180	0.00072753	0.64903800	0.37776400	0.00011668	0.14441600	
RelInt RSD	*59.11206677*	*43.25245247*	*1.26388440*	*1.14423555*	*93.14295999*	*2.35562542*	
RelInt SD	*0.00033209*	*0.00031467*	*0.00820309*	*0.00432251*	*0.00010868*	*0.00340190*	

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICV,S17960	Sample Type: Control Sample		
Measure Date: 2023-02-18 11:26:21	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	341370	3568.9100000	16619.800000	51334.100000	139741	215198	76012.400000
Int RSD	*0.62589566*	*1.98655612*	*1.17802862*	*0.70015058*	*0.57780966*	*0.25854144*	*0.23159248*
Int SD	*2136.6200000*	*70.89840000*	*195.78600000*	*359.41600000*	*807.43700000*	*556.37600000*	*176.03900000*
RelInt Mean	0.01322300	0.00914641	0.02721330	0.09497970	0.27110600	0.74413800	0.14298400
RelInt RSD	*1.17169326*	*3.87216405*	*1.17021824*	*0.85170621*	*0.10482948*	*0.84543458*	*0.74795082*
RelInt SD	*0.00015493*	*0.00035416*	*0.00031845*	*0.00080895*	*0.00028420*	*0.00629120*	*0.00106945*
Conc Mean	0.48596100[mg/l]	0.94286400[mg/l]	1.05605000[mg/l]	1.03205000[mg/l]	1.03248000[mg/l]	52.09650000[mg/l]	1.04350000[mg/l]
Conc RSD	*1.17629192*	*4.67001604*	*1.16356233*	*0.85705828*	*0.10626356*	*0.84657127*	*0.74751030*
Conc SD	*0.00571632[mg/l]*	*0.04403190[mg/l]*	*0.01228780[mg/l]*	*0.00884527[mg/l]*	*0.00109715[mg/l]*	*0.44103400[mg/l]*	*0.00780027[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	81646.500000	803208	161686	17453.200000	52573.100000	938334	69490.300000
Int RSD	*0.30341288*	*1.04408074*	*0.30053190*	*2.21188665*	*0.62566598*	*0.45841779*	*0.58944198*
Int SD	*247.72600000*	*8386.1400000*	*485.91800000*	*386.04500000*	*328.93200000*	*4301.4900000*	*409.60500000*
RelInt Mean	0.15569000	0.03330700	0.31381700	0.06066160	0.17969400	1.87846000	0.13323700
RelInt RSD	*0.40362579*	*1.53781788*	*0.23384775*	*2.21917984*	*1.48666622*	*0.05840582*	*0.51581843*
RelInt SD	*0.00062840*	*0.00051220*	*0.00073385*	*0.00134619*	*0.00267145*	*0.00109713*	*0.00068726*
Conc Mean	1.02253000[mg/l]	0.95195100[mg/l]	1.05053000[mg/l]	58.80560000[mg/l]	52.29590000[mg/l]	1.06052000[mg/l]	1.00967000[mg/l]
Conc RSD	*0.40398032*	*1.56011181*	*0.23467964*	*2.21322459*	*1.48408193*	*0.05846443*	*0.51603890*
Conc SD	*0.00413082[mg/l]*	*0.01485150[mg/l]*	*0.00246538[mg/l]*	*1.30150000[mg/l]*	*0.77611400[mg/l]*	*0.00062003[mg/l]*	*0.00521029[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	325640	43820.500000	19449.800000	13760.800000	12090.400000	132713	336002
Int RSD	*0.38251136*	*0.43959106*	*0.52270460*	*1.60329341*	*1.37884603*	*0.91358797*	*0.59265719*
Int SD	*1245.6100000*	*192.63100000*	*101.66500000*	*220.62600000*	*166.70800000*	*1212.4500000*	*1991.3400000*
RelInt Mean	1.11127000	0.07761450	0.02811760	0.02021370	0.01854610	0.26160100	1.16092000
RelInt RSD	*0.68981526*	*0.61245644*	*1.00540942*	*1.77706209*	*2.21065884*	*0.44322843*	*0.45820125*
RelInt SD	*0.00766571*	*0.00047536*	*0.00028270*	*0.00035921*	*0.00040999*	*0.00115949*	*0.00531935*
Conc Mean	51.42640000[mg/l]	0.99158000[mg/l]	1.03350000[mg/l]	1.03772000[mg/l]	1.03356000[mg/l]	5.12577000[mg/l]	1.09790000[mg/l]
Conc RSD	*0.70113405*	*0.61587668*	*0.99931301*	*1.79464595*	*2.21039901*	*0.44346508*	*0.45847800*
Conc SD	*0.36056800[mg/l]*	*0.00610691[mg/l]*	*0.01032790[mg/l]*	*0.01862340[mg/l]*	*0.02284580[mg/l]*	*0.02273100[mg/l]*	*0.00503363[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	2551750	16798.100000	134474	502794	23208200	289473	107611
Int RSD	*1.60161066*	*0.63657199*	*0.97997382*	*0.51819632*	*0.48131695*	*1.03298408*	*0.54095399*
Int SD	*40869.100000*	*106.93200000*	*1317.8100000*	*2605.4600000*	*111705*	*2990.2100000*	*582.12600000*
RelInt Mean	0.10835500	0.02795750	0.00546703	---	---	---	0.20960600
RelInt RSD	*2.09794656*	*0.93125995*	*1.45855794*	---	---	---	*0.04055041*
RelInt SD	*0.00227323*	*0.00026036*	*0.00007974*	---	---	---	*0.00008500*
Conc Mean	1.01428000[mg/l]	1.05134000[mg/l]	0.98109800[mg/l]	496302	23154800	289148	1.09210000[mg/l]
Conc RSD	*2.09785266*	*0.92268533*	*1.47936292*	---	---	---	*0.04106236*
Conc SD	*0.02127810[mg/l]*	*0.00970056[mg/l]*	*0.01451400[mg/l]*	*2587.8600000*	*111895*	*3006.3100000*	*0.00044844[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	72147.400000	31259.900000	187886	107427	117933	44385.100000	
Int RSD	*0.53960364*	*0.81702757*	*0.40499292*	*0.19014773*	*0.49436544*	*0.89101298*	
Int SD	*389.31000000*	*255.40200000*	*760.92500000*	*204.27000000*	*583.02000000*	*395.47700000*	
RelInt Mean	0.24910300	0.09813830	0.36883500	0.20765500	0.22726800	0.07922000	
RelInt RSD	*1.59000494*	*1.42406176*	*0.17770629*	*0.69339530*	*0.36196561*	*1.06008457*	
RelInt SD	*0.00396075*	*0.00139755*	*0.00065544*	*0.00143987*	*0.00082263*	*0.00083980*	
Conc Mean	1.01351000[mg/l]	1.04921000[mg/l]	5.64822000[mg/l]	5.49124000[mg/l]	0.98252500[mg/l]	5.48988000[mg/l]	
Conc RSD	*1.58863751*	*1.43533706*	*0.18065337*	*0.69509983*	*0.36836620*	*1.05820710*	
Conc SD	*0.01610100[mg/l]*	*0.01505970[mg/l]*	*0.01020370[mg/l]*	*0.03816960[mg/l]*	*0.00361929[mg/l]*	*0.05809430[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211013	File:	met06_master011	Time:	18-FEB-2023 11:32
Cal:	483071211001	Caldate:	18-FEB-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	24119900	0.37
Yttrium	A	521757	525042	0.63
Yttrium	R	302682	299613	-1.01

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICB,1			Sample Type: Control Sample
Measure Date: 2023-02-18 11:32:59	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	34499.100000	699.57100000	2717.8500000	4243.6200000	4824.7100000	298.52400000	4473.3500000
Int RSD	*0.31492416*	*3.19038382*	*0.46820833*	*1.27972580*	*0.76497655*	*28.16835497*	*1.08278360*
Int SD	*108.64600000*	*22.31900000*	*12.72520000*	*54.30670000*	*36.90790000*	*84.08930000*	*48.43670000*
RelInt Mean	0.00005981	0.00129880	-0.00030619	0.00090235	0.00019495	0.00072556	-0.00001032
RelInt RSD	*9.89419865*	*12.64752079*	*19.04651018*	*12.51744059*	*42.03518761*	*31.07067349*	*902.02434250*
RelInt SD	*0.00000592*	*0.00016427*	*0.00005832*	*0.00011295*	*0.00008195*	*0.00022544*	*0.00009308*
Conc Mean	<0.00025186[mg/l]	<-0.03279110[mg/l]	<-0.00463098[mg/l]	0.00337813[mg/l]	<0.00031454[mg/l]	<-0.01607780[mg/l]	<-0.00052988[mg/l]
Conc RSD	*86.69845707*	*62.27970394*	*48.57611132*	*36.55957586*	*98.87646522*	*98.29081093*	*128.46636396*
Conc SD	*0.00021836[mg/l]*	*0.02042220[mg/l]*	*0.00224955[mg/l]*	*0.00123503[mg/l]*	*0.00031101[mg/l]*	*0.01580300[mg/l]*	*0.00068072[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3911.1600000	40302.400000	6340.2100000	-238.52700000	503.01600000	5652.5400000	3154.2300000
Int RSD	*0.47367789*	*0.33509667*	*0.35926413*	*26.86173892*	*12.51622215*	*0.20591451*	*1.40525263*
Int SD	*18.52630000*	*135.05200000*	*22.77810000*	*64.07250000*	*62.95860000*	*11.63940000*	*44.32490000*
RelInt Mean	0.00017781	0.00049345	0.00176382	-0.00046956	0.00010952	0.00050709	0.00017401
RelInt RSD	*15.93351405*	*1.36168186*	*3.56797179*	*39.83065105*	*29.20678257*	*3.73280377*	*54.43833365*
RelInt SD	*0.00002833*	*0.00000672*	*0.00006293*	*0.00018703*	*0.00003199*	*0.00001893*	*0.00009473*
Conc Mean	<0.00029029[mg/l]	0.00054795[mg/l]	<0.00184781[mg/l]	<-0.29670200[mg/l]	<0.11994300[mg/l]	<0.00001436[mg/l]	<0.00089324[mg/l]
Conc RSD	*64.15414771*	*35.55470390*	*11.44560317*	*60.94397746*	*7.74791359*	*74.43076580*	*80.39868523*
Conc SD	*0.00018623[mg/l]*	*0.00019482[mg/l]*	*0.00021149[mg/l]*	*0.18082200[mg/l]*	*0.00929308[mg/l]*	*0.00001069[mg/l]*	*0.00071815[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	7174.5600000	4972.8800000	5054.3500000	3464.9900000	2684.4800000	2687.5900000	170.99700000
Int RSD	*1.96359080*	*0.13237158*	*0.19638747*	*0.73195016*	*1.99867013*	*1.01170193*	*50.34602946*
Int SD	*140.87900000*	*6.58268000*	*9.92611000*	*25.36200000*	*53.65390000*	*27.19040000*	*86.09020000*
RelInt Mean	0.01129260	0.00037946	-0.00011404	0.00006850	0.00004609	0.00011093	-0.00037631
RelInt RSD	*2.17671750*	*16.82059796*	*35.23864224*	*67.55347338*	*225.88281755*	*53.16451360*	*89.06374566*
RelInt SD	*0.00024581*	*0.00006383*	*0.00004019*	*0.00004627*	*0.00010410*	*0.00005897*	*0.00033515*
Conc Mean	<-0.28314800[mg/l]	<-0.00065710[mg/l]	<0.00103461[mg/l]	<0.00078608[mg/l]	<0.00256830[mg/l]	<0.00006477[mg/l]	<-0.00129108[mg/l]
Conc RSD	*4.08069278*	*124.78812108*	*142.12215231*	*304.61630055*	*225.88287973*	*1784.8871321*	*24.57090188*
Conc SD	*0.01155440[mg/l]*	*0.00081998[mg/l]*	*0.00147041[mg/l]*	*0.00239454[mg/l]*	*0.00580135[mg/l]*	*0.00115600[mg/l]*	*0.00031723[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	39147.800000	2564.1400000	8709.7900000	525042	24119900	299613	3463.7000000
Int RSD	*0.29039691*	*0.25063920*	*1.15662949*	*0.59133174*	*0.88559654*	*0.90090884*	*0.33840691*
Int SD	*113.68400000*	*6.42674000*	*100.74000000*	*3104.7400000*	*213605*	*2699.2400000*	*11.72140000*
RelInt Mean	0.00006067	-0.00017977	0.00007557	---	---	---	0.00054523
RelInt RSD	*6.11814130*	*17.68112234*	*6.07272963*	---	---	---	*4.01107427*
RelInt SD	*0.00000371*	*0.00003179*	*0.00000459*	---	---	---	*0.00002187*
Conc Mean	0.00054436[mg/l]	<0.00134798[mg/l]	<0.00008553[mg/l]	518866	24068300	299311	<0.00035495[mg/l]
Conc RSD	*6.38352787*	*88.49982937*	*977.01282469*	---	---	---	*32.16688454*
Conc SD	*0.00003475[mg/l]*	*0.00119296[mg/l]*	*0.00083564[mg/l]*	*3111.2900000*	*213458*	*2756.1100000*	*0.00011418[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-105.10300000	2892.0000000	4623.6200000	4213.3000000	4508.5200000	4401.2800000	
Int RSD	*138.24153449*	*2.45243430*	*0.89443553*	*2.34403199*	*0.30874433*	*0.84245038*	
Int SD	*145.29600000*	*70.92440000*	*41.35530000*	*98.76110000*	*13.91980000*	*37.07860000*	
RelInt Mean	-0.00073425	0.00063580	0.00112469	0.00066749	0.00012257	-0.00057158	
RelInt RSD	*68.95557514*	*38.42729924*	*9.64843646*	*30.97144672*	*11.69424185*	*2.84860255*	
RelInt SD	*0.00050631*	*0.00024432*	*0.00010852*	*0.00020673*	*0.00001433*	*0.00001628*	
Conc Mean	<-0.00216419[mg/l]	<-0.00127135[mg/l]	<-0.01009880[mg/l]	<0.00498947[mg/l]	<-0.00061849[mg/l]	<-0.02991740[mg/l]	
Conc RSD	*95.10763842*	*207.04605341*	*16.52612192*	*109.82028151*	*9.40267619*	*3.76493278*	
Conc SD	*0.00205831[mg/l]*	*0.00263228[mg/l]*	*0.00166894[mg/l]*	*0.00547945[mg/l]*	*0.00005815[mg/l]*	*0.00112637[mg/l]*	

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211014	File:	met06_master011	Time:	18-FEB-2023 11:36
Cal:	483071211001	Caldate:	18-FEB-2023		

Standards: S17605, S13369 (100X)

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.01819]	0.003333	mg/l	a- ***

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Iron	A	160.0	151.5	mg/l	95	
Aluminum	R	400.0	394.6	mg/l	99	
Calcium	R	400.0	392.6	mg/l	98	
Magnesium	R	400.0	387.0	mg/l	97	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	21486800	-10.59
Yttrium	A	521757	456907	-12.43
Yttrium	R	302682	273152	-9.76

-=low bias a=ICSA

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICSA,S17605			Sample Type: Control Sample
Measure Date: 2023-02-18 11:36:17	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	35591.300000	875355	7608.2000000	6852.2100000	6460.5000000	1528320	5733.7000000
Int RSD	*0.49632073*	*1.15269805*	*0.16426619*	*1.95290279*	*0.86426438*	*0.44051573*	*1.11117429*
Int SD	*176.64700000*	*10090.200000*	*12.49770000*	*133.81700000*	*55.83580000*	*6732.4900000*	*63.71140000*
RelInt Mean	0.00003268	3.17527000	-0.00032614	0.00221584	0.00136708	5.60159000	0.00025220
RelInt RSD	*14.29144532*	*0.05500288*	*16.36407399*	*10.78340494*	*5.95946836*	*1.18185729*	*47.67012157*
RelInt SD	*0.00000467*	*0.00174649*	*0.00005337*	*0.00023894*	*0.00008147*	*0.06620280*	*0.00012022*
Conc Mean	<-0.00074925[mg/l]	>394.57100000[mg/l]	<-0.00539157[mg/l]	0.01774020[mg/l]	0.00480974[mg/l]	>392.60000000[mg/l]	<0.00138770[mg/l]
Conc RSD	*23.00033367*	*0.05509097*	*38.16253893*	*14.72734242*	*6.37456495*	*1.18203006*	*63.36938820*
Conc SD	*0.00017233[mg/l]*	*0.21737300[mg/l]*	*0.00205756[mg/l]*	*0.00261266[mg/l]*	*0.00030660[mg/l]*	*4.64065000[mg/l]*	*0.00087938[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	5129.5900000	44227.300000	20273200	-171.87000000	364619	12401.900000	11081.500000
Int RSD	*1.49619950*	*0.77258390*	*0.31930973*	*29.35043929*	*0.85670522*	*1.04041316*	*0.95222668*
Int SD	*76.74890000*	*341.69300000*	*64734.300000*	*50.44460000*	*3123.7100000*	*129.03100000*	*105.52100000*
RelInt Mean	-0.00134195	0.00056068	45.09270000	-0.00054291	1.33172000	0.00811722	-0.00030914
RelInt RSD	*16.76903014*	*0.91522718*	*0.34489396*	*38.95290581*	*0.36326555*	*2.72758407*	*58.97975027*
RelInt SD	*0.00022503*	*0.00000513*	*0.15552200*	*0.00021148*	*0.00483768*	*0.00022140*	*0.00018233*
Conc Mean	<-0.00969957[mg/l]	0.00249698[mg/l]	>151.53400000[mg/l]	<-0.36761700[mg/l]	>387.00100000[mg/l]	0.00431190[mg/l]	<-0.00276962[mg/l]
Conc RSD	*15.25036677*	*5.95851789*	*0.34510737*	*55.61793932*	*0.36342025*	*2.89962661*	*49.90865173*
Conc SD	*0.00147922[mg/l]*	*0.00014878[mg/l]*	*0.52295500[mg/l]*	*0.20446100[mg/l]*	*1.40644000[mg/l]*	*0.00012503[mg/l]*	*0.00138228[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	6080.8000000	6166.8800000	12179.400000	12668.500000	8776.5800000	7629.6600000	553.36800000
Int RSD	*2.31407052*	*0.47245447*	*0.80070529*	*0.89845680*	*1.89792607*	*0.69965503*	*16.97100302*
Int SD	*140.71400000*	*29.13570000*	*97.52110000*	*113.82100000*	*166.57300000*	*53.38130000*	*93.91210000*
RelInt Mean	0.00988109	0.00038103	0.00280601	0.00039984	-0.00052201	0.00009467	0.00092346
RelInt RSD	*4.55461897*	*9.81211207*	*5.65304471*	*18.21259844*	*71.13079559*	*148.54243096*	*20.26931469*
RelInt SD	*0.00045005*	*0.00003739*	*0.00015862*	*0.00007282*	*0.00037131*	*0.00014062*	*0.00018718*
Conc Mean	<-0.34950500[mg/l]	<-0.00063692[mg/l]	<-0.01819130[mg/l]	0.01799870[mg/l]	<-0.02909130[mg/l]	<-0.00025395[mg/l]	<-0.00006084[mg/l]
Conc RSD	*6.05327535*	*75.41037143*	*31.51847312*	*20.91273259*	*71.13054418*	*1085.4505647*	*291.21108518*
Conc SD	*0.02115650[mg/l]*	*0.00048031[mg/l]*	*0.00573362[mg/l]*	*0.00376402[mg/l]*	*0.02069280[mg/l]*	*0.00275648[mg/l]*	*0.00017717[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	45387.300000	7714.4000000	11234.100000	456907	21486800	273152	12285.900000
Int RSD	*0.85093187*	*0.03554923*	*0.71515742*	*0.06137004*	*0.17999842*	*1.23881941*	*0.80435784*
Int SD	*386.21500000*	*2.74241000*	*80.34150000*	*280.40400000*	*38675.900000*	*3383.8600000*	*98.82260000*
RelInt Mean	0.00020655	-0.00035998	0.00006724	---	---	---	0.00110829
RelInt RSD	*3.82137756*	*13.46798859*	*4.49414522*	---	---	---	*31.91294697*
RelInt SD	*0.00000789*	*0.00004848*	*0.00000302*	---	---	---	*0.00035369*
Conc Mean	0.00190993[mg/l]	<-0.00540430[mg/l]	<-0.00143018[mg/l]	449359	21425300	272789	0.00330177[mg/l]
Conc RSD	*3.86851351*	*33.68373332*	*38.45998406*	---	---	---	*55.96573959*
Conc SD	*0.00007389[mg/l]*	*0.00182037[mg/l]*	*0.00055005[mg/l]*	*229.61800000*	*38573.900000*	*3340.2300000*	*0.00184786[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-115.48500000	2638.6800000	7040.7000000	7504.3100000	5779.4600000	8970.4700000	
Int RSD	*63.88647876*	*5.59438810*	*0.53925320*	*0.98161457*	*0.54189146*	*0.54190583*	
Int SD	*73.77930000*	*147.61800000*	*37.96720000*	*73.66340000*	*31.31840000*	*48.61150000*	
RelInt Mean	-0.00090982	0.00105961	0.00194283	0.00057765	-0.00079227	0.00050443	
RelInt RSD	*41.33705862*	*18.70301337*	*5.38142812*	*34.22429806*	*9.02875932*	*15.21030543*	
RelInt SD	*0.00037609*	*0.00019818*	*0.00010455*	*0.00019770*	*0.00007153*	*0.00007673*	
Conc Mean	<-0.00287793[mg/l]	<0.00329475[mg/l]	<0.00262369[mg/l]	<0.00260831[mg/l]	<-0.00459092[mg/l]	0.04451850[mg/l]	
Conc RSD	*53.12672650*	*64.80491691*	*61.86401595*	*200.89598246*	*6.75487702*	*11.92254905*	
Conc SD	*0.00152895[mg/l]*	*0.00213516[mg/l]*	*0.00162312[mg/l]*	*0.00523999[mg/l]*	*0.00031011[mg/l]*	*0.00530774[mg/l]*	

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211015	File:	met06_master011	Time:	18-FEB-2023 11:39
Cal:	483071211001	Caldate:	18-FEB-2023		

Standards: S17891, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	1.024	mg/l	2	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	21795700	-9.30
Yttrium	A	521757	466039	-10.68
Yttrium	R	302682	274994	-9.15

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: ICSAB,S17891			Sample Type: Control Sample
Measure Date: 2023-02-18 11:39:38	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	647599	879919	7686.1600000	6925.1400000	68849.100000	1516190	37394.000000
Int RSD	*1.10564253*	*0.41617012*	*0.43182161*	*1.13626584*	*0.53511084*	*1.08086717*	*0.62805530*
Int SD	*7160.1300000*	*3661.9600000*	*33.19050000*	*78.68800000*	*368.41900000*	*16388.000000*	*234.85500000*
RelInt Mean	0.02813810	3.17043000	-0.00025345	0.00240354	0.13727900	5.51852000	0.06890500
RelInt RSD	*1.23901401*	*0.31271626*	*28.62651411*	*8.36274828*	*0.48606488*	*0.80498938*	*0.66652493*
RelInt SD	*0.00034863*	*0.00991445*	*0.00007255*	*0.00020100*	*0.00066727*	*0.04442350*	*0.00045927*
Conc Mean	1.03631000[mg/l]	>393.97000000[mg/l]	<-0.00303988[mg/l]	0.01979270[mg/l]	0.52448400[mg/l]	>386.77700000[mg/l]	0.50347300[mg/l]
Conc RSD	*1.24103791*	*0.31275478*	*92.12436017*	*11.10444760*	*0.48607965*	*0.80510992*	*0.66717580*
Conc SD	*0.01286100[mg/l]*	*1.23216000[mg/l]*	*0.00280047[mg/l]*	*0.00219787[mg/l]*	*0.00254941[mg/l]*	*3.11398000[mg/l]*	*0.00335905[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	40877.600000	438637	20102700	-190.31800000	369693	440084	11043.400000
Int RSD	*0.41668053*	*1.51967344*	*0.78465579*	*32.06922099*	*0.39408915*	*0.15314326*	*0.79573139*
Int SD	*170.32900000*	*6665.8500000*	*157737*	*61.03350000*	*1456.9200000*	*673.95900000*	*87.87580000*
RelInt Mean	0.07654520	0.01866220	43.82010000	-0.00053785	1.34111000	0.94039000	-0.00018283
RelInt RSD	*0.58584993*	*1.62124508*	*0.70782814*	*59.01006593*	*0.53873210*	*0.28181712*	*131.17175065*
RelInt SD	*0.00044844*	*0.00030256*	*0.31017100*	*0.00031739*	*0.00722499*	*0.00265018*	*0.00023982*
Conc Mean	0.50227900[mg/l]	0.52733800[mg/l]	>147.25700000[mg/l]	<-0.36272700[mg/l]	>389.73000000[mg/l]	0.53077800[mg/l]	<-0.00181203[mg/l]
Conc RSD	*0.58690290*	*1.66356492*	*0.70808179*	*84.59640446*	*0.53852154*	*0.28196157*	*100.33663902*
Conc SD	*0.00294789[mg/l]*	*0.00877261[mg/l]*	*1.04270000[mg/l]*	*0.30685400[mg/l]*	*2.09878000[mg/l]*	*0.00149659[mg/l]*	*0.00181813[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	6166.0200000	41308.700000	25227.700000	12619.900000	8721.3700000	7629.3200000	5544.9600000
Int RSD	*1.97529363*	*1.27501955*	*1.02953500*	*1.05714784*	*0.92921984*	*1.05397204*	*2.78449258*
Int SD	*121.79700000*	*526.69400000*	*259.72800000*	*133.41100000*	*81.04070000*	*80.41090000*	*154.39900000*
RelInt Mean	0.01015240	0.07670570	0.03129770	0.00022230	-0.00070406	0.00005792	0.01920740
RelInt RSD	*2.32657303*	*1.47011239*	*1.61900715*	*152.84369250*	*29.05638992*	*241.70066277*	*2.60712017*
RelInt SD	*0.00023620*	*0.00112766*	*0.00050671*	*0.00033977*	*0.00020458*	*0.00014000*	*0.00050076*
Conc Mean	<-0.33675100[mg/l]	0.97990400[mg/l]	1.02430000[mg/l]	<0.00580375[mg/l]	<-0.03923670[mg/l]	<-0.00097421[mg/l]	0.01724510[mg/l]
Conc RSD	*3.29742154*	*1.47835910*	*1.77408962*	*303.18673272*	*29.05647009*	*281.69272870*	*2.74843869*
Conc SD	*0.01110410[mg/l]*	*0.01448650[mg/l]*	*0.01817200[mg/l]*	*0.01759620[mg/l]*	*0.01140080[mg/l]*	*0.00274429[mg/l]*	*0.00047397[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	44812.800000	7859.3400000	70990.300000	466039	21795700	274994	102344
Int RSD	*0.75166917*	*0.51067011*	*0.88880594*	*0.15189716*	*0.64578793*	*0.72249940*	*0.45979930*
Int SD	*336.84400000*	*40.13530000*	*630.96600000*	*707.90000000*	*140754*	*1986.8300000*	*470.57700000*
RelInt Mean	0.00019278	-0.00015976	0.00281180	---	---	---	0.19730300
RelInt RSD	*2.18681530*	*35.69783236*	*1.27210684*	---	---	---	*0.61473470*
RelInt SD	*0.00000422*	*0.00005703*	*0.00003577*	---	---	---	*0.00121289*
Conc Mean	0.00178103[mg/l]	<0.00210243[mg/l]	0.49816300[mg/l]	458516	21734200	274657	1.02809000[mg/l]
Conc RSD	*2.21584140*	*101.76224654*	*1.30714445*	---	---	---	*0.61639740*
Conc SD	*0.00003946[mg/l]*	*0.00213948[mg/l]*	*0.00651171[mg/l]*	*744.35800000*	*140599*	*2040.3900000*	*0.00633712[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	32706.600000	2532.5500000	7022.3100000	7866.5300000	116995	8456.4100000	
Int RSD	*1.23407508*	*7.29616395*	*2.00959513*	*0.80112832*	*0.36992265*	*0.38098555*	
Int SD	*403.62400000*	*184.77900000*	*141.12000000*	*63.02100000*	*432.79100000*	*32.21770000*	
RelInt Mean	0.11842900	0.00055655	0.00192176	0.00131417	0.24090400	-0.00069134	
RelInt RSD	*0.84077126*	*71.57444408*	*15.84032345*	*16.17621769*	*0.33473624*	*6.10230292*	
RelInt SD	*0.00099572*	*0.00039835*	*0.00030441*	*0.00021258*	*0.00080639*	*0.00004219*	
Conc Mean	0.48227700[mg/l]	<-0.00212514[mg/l]	<0.00227664[mg/l]	0.02212990[mg/l]	1.04563000[mg/l]	<-0.03820240[mg/l]	
Conc RSD	*0.83937654*	*201.95187141*	*207.75616698*	*25.46111822*	*0.33490240*	*7.63944150*	
Conc SD	*0.00404812[mg/l]*	*0.00429176[mg/l]*	*0.00472986[mg/l]*	*0.00563452[mg/l]*	*0.00350184[mg/l]*	*0.00291845[mg/l]*	

ENTHALPY CONTINUING CALIBRATION FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211038	File:	met06_master011	Time:	18-FEB-2023 12:56
Cal:	483071211001	Caldate:	18-FEB-2023		

Standards: S17960, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0192	0.0283	1.000	1.040	mg/l	4	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	22890600	-4.75
Yttrium	A	521757	500037	-4.16
Yttrium	R	302682	283058	-6.48

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: CCV,S17960 | Sample Type: Control Sample

Measure Date: 2023-02-18 12:56:07 | Recalculation Date: | State: Check failed | Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	339924	3673.6600000	16667.800000	50644.200000	140260	214570	76192.500000
Int RSD	*0.90699686*	*6.69199109*	*1.14181836*	*0.54320139*	*0.25810851*	*1.29744605*	*0.80740230*
Int SD	*3083.1000000*	*245.84100000*	*190.31600000*	*275.10000000*	*362.02300000*	*2783.9300000*	*615.18000000*
RelInt Mean	0.01337910	0.00967192	0.02756350	0.09425760	0.27381900	0.75832100	0.14416700
RelInt RSD	*1.26826169*	*11.96184418*	*1.12978395*	*0.50097817*	*0.16554293*	*0.15036376*	*0.88497368*
RelInt SD	*0.00016968*	*0.00115694*	*0.00031141*	*0.00047221*	*0.00045329*	*0.00114024*	*0.00127584*
Conc Mean	0.49171900[mg/l]	1.00820000[mg/l]	1.06955000[mg/l]	1.02415000[mg/l]	1.04283000[mg/l]	53.09070000[mg/l]	1.05209000[mg/l]
Conc RSD	*1.27311940*	*14.26651458*	*1.12335094*	*0.50423668*	*0.16605103*	*0.15060811*	*0.88702297*
Conc SD	*0.00626017[mg/l]*	*0.14383500[mg/l]*	*0.01201480[mg/l]*	*0.00516414[mg/l]*	*0.00173163[mg/l]*	*0.07995890[mg/l]*	*0.00933228[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	81662.800000	799754	166673	17615.400000	52639.800000	939109	69516.600000
Int RSD	*0.26782697*	*1.56092999*	*0.86853300*	*1.73350023*	*0.81683251*	*0.31280607*	*0.09978063*
Int SD	*218.71500000*	*12483.600000*	*1447.6100000*	*305.36300000*	*429.97900000*	*2937.5900000*	*69.36410000*
RelInt Mean	0.15676300	0.03365570	0.32583000	0.06252410	0.18382000	1.89032000	0.13415300
RelInt RSD	*0.34008216*	*1.88029368*	*0.97704631*	*2.50023591*	*1.87389838*	*0.50232818*	*0.26346485*
RelInt SD	*0.00053312*	*0.00063283*	*0.00318351*	*0.00156325*	*0.00344460*	*0.00949561*	*0.00035345*
Conc Mean	1.02958000[mg/l]	0.96206100[mg/l]	1.09090000[mg/l]	60.60620000[mg/l]	53.49460000[mg/l]	1.06721000[mg/l]	1.01662000[mg/l]
Conc RSD	*0.34017755*	*1.90721794*	*0.98068567*	*2.49380426*	*1.87065610*	*0.50258337*	*0.26345045*
Conc SD	*0.00350240[mg/l]*	*0.01834860[mg/l]*	*0.01069830[mg/l]*	*1.51140000[mg/l]*	*1.00070000[mg/l]*	*0.00536362[mg/l]*	*0.00267829[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	325142	43980.700000	19398.800000	13713.400000	12116.500000	132719	333593
Int RSD	*1.27686057*	*0.80797259*	*0.92995443*	*1.15538816*	*1.08136838*	*0.30687769*	*1.72247020*
Int SD	*4151.6100000*	*355.35200000*	*180.40000000*	*158.44300000*	*131.02400000*	*407.28500000*	*5746.0400000*
RelInt Mean	1.13431000	0.07850850	0.02828420	0.02034110	0.01885070	0.26318300	1.17862000
RelInt RSD	*0.22796678*	*0.91596961*	*0.95723054*	*1.28378505*	*1.43404754*	*0.28636158*	*0.67805993*
RelInt SD	*0.00258585*	*0.00071911*	*0.00027075*	*0.00026114*	*0.00027033*	*0.00075365*	*0.00799175*
Conc Mean	52.50960000[mg/l]	1.00307000[mg/l]	1.03958000[mg/l]	1.04428000[mg/l]	1.05053000[mg/l]	5.15678000[mg/l]	1.11465000[mg/l]
Conc RSD	*0.23164717*	*0.92082706*	*0.95676523*	*1.29439422*	*1.43396190*	*0.28660327*	*0.67838245*
Conc SD	*0.12163700[mg/l]*	*0.00923654[mg/l]*	*0.00994634[mg/l]*	*0.01351710[mg/l]*	*0.01506420[mg/l]*	*0.01477950[mg/l]*	*0.00756159[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	2601830	16651.800000	133904	500037	22890600	283058	107969
Int RSD	*0.86146674*	*0.70086717*	*1.10311118*	*0.18783250*	*0.94773400*	*1.40696960*	*0.26801489*
Int SD	*22413.900000*	*116.70700000*	*1477.1100000*	*939.23200000*	*216942*	*3982.5400000*	*289.37300000*
RelInt Mean	0.11208300	0.02785960	0.00552822	---	---	---	0.21158900
RelInt RSD	*1.70636939*	*0.77512958*	*1.49839731*	---	---	---	*0.10203697*
RelInt SD	*0.00191255*	*0.00021595*	*0.00008283*	---	---	---	*0.00021590*
Conc Mean	1.04919000[mg/l]	1.04756000[mg/l]	0.99223300[mg/l]	493631	22838700	282757	1.10246000[mg/l]
Conc RSD	*1.70650692*	*0.77176486*	*1.51969346*	---	---	---	*0.10272300*
Conc SD	*0.01790450[mg/l]*	*0.00808470[mg/l]*	*0.01507890[mg/l]*	*945.88100000*	*216865*	*3900.1200000*	*0.00113248[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	72700.800000	31545.700000	188404	107903	118253	44591.100000	
Int RSD	*0.67109991*	*0.48343514*	*0.47856999*	*0.39718173*	*0.39459210*	*0.57903034*	
Int SD	*487.89500000*	*152.50300000*	*901.64500000*	*428.57100000*	*466.61700000*	*258.19600000*	
RelInt Mean	0.25659200	0.10157600	0.37212100	0.20993800	0.22922900	0.08018660	
RelInt RSD	*1.76537850*	*1.10056509*	*0.38299370*	*0.59708104*	*0.39338085*	*0.69111048*	
RelInt SD	*0.00452982*	*0.00111791*	*0.00142520*	*0.00125350*	*0.00090174*	*0.00055418*	
Conc Mean	1.04396000[mg/l]	1.08625000[mg/l]	5.69883000[mg/l]	5.55175000[mg/l]	0.99099900[mg/l]	5.55675000[mg/l]	
Conc RSD	*1.76405226*	*1.10908170*	*0.38685309*	*0.59857162*	*0.39789344*	*0.68989427*	
Conc SD	*0.01841600[mg/l]*	*0.01204740[mg/l]*	*0.02204610[mg/l]*	*0.03323120[mg/l]*	*0.00394312[mg/l]*	*0.03833570[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211039	File:	met06_master011	Time:	18-FEB-2023 12:59
Cal:	483071211001	Caldate:	18-FEB-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	24105700	0.31
Yttrium	A	521757	526834	0.97
Yttrium	R	302682	292660	-3.31

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: CCB,1			Sample Type: Control Sample
Measure Date: 2023-02-18 12:59:25	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	33976.600000	815.96300000	2722.3400000	4116.2300000	4752.7300000	310.74300000	4409.9600000
Int RSD	*0.83144282*	*17.24686046*	*0.89870112*	*1.11509075*	*0.80002230*	*16.57739676*	*0.75741277*
Int SD	*282.49600000*	*140.72800000*	*24.46570000*	*45.89970000*	*38.02290000*	*51.51310000*	*33.40160000*
RelInt Mean	0.00004453	0.00179824	-0.00019776	0.00068859	0.00015641	0.00088607	-0.00004683
RelInt RSD	*13.64293702*	*14.04812483*	*18.85751560*	*18.90036161*	*58.09252546*	*23.53747777*	*122.50264228*
RelInt SD	*0.00000608*	*0.00025262*	*0.00003729*	*0.00013015*	*0.00009086*	*0.00020856*	*0.00005737*
Conc Mean	<-0.00031188[mg/l]	<0.02930240[mg/l]	<-0.00044871[mg/l]	<0.00104083[mg/l]	<0.00015829[mg/l]	<-0.00482618[mg/l]	<-0.00080314[mg/l]
Conc RSD	*71.87928845*	*107.18200557*	*320.56722099*	*136.72261560*	*217.56288931*	*302.92695258*	*51.99542295*
Conc SD	*0.00022418[mg/l]*	*0.03140690[mg/l]*	*0.00143843[mg/l]*	*0.00142305[mg/l]*	*0.00034439[mg/l]*	*0.01461980[mg/l]*	*0.00041760[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3904.9800000	40222.000000	7718.5700000	-148.09200000	452.69300000	5666.5700000	3254.4000000
Int RSD	*0.83364575*	*1.14086570*	*2.83798683*	*86.48272695*	*20.20490708*	*1.18142368*	*2.11356625*
Int SD	*32.55370000*	*458.87900000*	*219.05200000*	*128.07400000*	*91.46620000*	*66.94620000*	*68.78390000*
RelInt Mean	0.00025587	0.00050041	0.00448521	-0.00030079	-0.00012329	0.00064419	0.00049335
RelInt RSD	*33.97648797*	*5.06494674*	*9.33369898*	*105.10922939*	*127.64832313*	*22.01212072*	*23.61700058*
RelInt SD	*0.00008694*	*0.00002535*	*0.00041864*	*0.00031616*	*0.00015738*	*0.00014180*	*0.00011651*
Conc Mean	<0.00080339[mg/l]	<0.00074964[mg/l]	0.01099330[mg/l]	<-0.13353000[mg/l]	<0.05230280[mg/l]	<0.00009178[mg/l]	0.00331421[mg/l]
Conc RSD	*71.13026333*	*98.03024927*	*12.79752213*	*228.91035722*	*87.42495622*	*87.24515811*	*26.65244508*
Conc SD	*0.00057145[mg/l]*	*0.00073487[mg/l]*	*0.00140687[mg/l]*	*0.30566400[mg/l]*	*0.04572570[mg/l]*	*0.00008008[mg/l]*	*0.00088332[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	6915.7800000	4934.2300000	4983.0000000	3445.3800000	2670.7600000	2855.0700000	145.40600000
Int RSD	*2.46021418*	*0.84896732*	*0.57542846*	*1.13712856*	*0.51013569*	*4.30661945*	*48.60837930*
Int SD	*170.14300000*	*41.89000000*	*28.67360000*	*39.17840000*	*13.62450000*	*122.95700000*	*70.67950000*
RelInt Mean	0.01032560	0.00034457	-0.00019311	0.00012367	0.00007983	0.00052706	-0.00040883
RelInt RSD	*3.40824746*	*41.04326224*	*20.89497287*	*87.00514264*	*48.44510419*	*50.44055371*	*43.38852375*
RelInt SD	*0.00035192*	*0.00014142*	*0.00004035*	*0.00010760*	*0.00003867*	*0.00026585*	*0.00017738*
Conc Mean	<-0.32860900[mg/l]	<-0.00110522[mg/l]	<-0.00187784[mg/l]	<0.00363952[mg/l]	0.00444877[mg/l]	<0.00822187[mg/l]	<-0.00132186[mg/l]
Conc RSD	*5.03488949*	*164.38989522*	*79.14199293*	*153.00506660*	*48.44530061*	*63.38290438*	*12.70111812*
Conc SD	*0.01654510[mg/l]*	*0.00181687[mg/l]*	*0.00148616[mg/l]*	*0.00556865[mg/l]*	*0.00215522[mg/l]*	*0.00521126[mg/l]*	*0.00016789[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	48048.700000	2532.9400000	8878.5900000	526834	24105700	292660	3343.0500000
Int RSD	*6.93723243*	*1.00450465*	*0.96442453*	*0.34144531*	*1.29387240*	*0.30096802*	*1.73974664*
Int SD	*3333.2500000*	*25.44350000*	*85.62730000*	*1798.8500000*	*311897*	*880.81300000*	*58.16060000*
RelInt Mean	0.00044694	-0.00017839	0.00008045	---	---	---	0.00040103
RelInt RSD	*30.46015331*	*25.32428584*	*7.56965188*	---	---	---	*25.04288935*
RelInt SD	*0.00013614*	*0.00004518*	*0.00000609*	---	---	---	*0.00010043*
Conc Mean	0.00416017[mg/l]	<0.00138400[mg/l]	<0.00097220[mg/l]	520705	24055200	292353	<-0.00039868[mg/l]
Conc RSD	*30.63312317*	*122.15462428*	*113.98524577*	---	---	---	*131.57024752*
Conc SD	*0.00127439[mg/l]*	*0.00169062[mg/l]*	*0.00110816[mg/l]*	*1748.2400000*	*311948*	*945.13600000*	*0.00052454[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-53.21910000	2836.3900000	4600.7200000	4134.9500000	4492.3800000	4332.7200000	
Int RSD	*35.44460541*	*2.83036536*	*0.55616077*	*1.37498398*	*0.93334268*	*0.97964096*	
Int SD	*18.86330000*	*80.28020000*	*25.58740000*	*56.85490000*	*41.92930000*	*42.44510000*	
RelInt Mean	-0.00072961	0.00036644	0.00120219	0.00061665	0.00016702	-0.00062450	
RelInt RSD	*41.70756746*	*24.58214397*	*1.42643010*	*22.87521284*	*48.51835442*	*16.91227688*	
RelInt SD	*0.00030430*	*0.00009008*	*0.00001715*	*0.00014106*	*0.00008103*	*0.00010562*	
Conc Mean	<-0.00214533[mg/l]	<-0.00417336[mg/l]	<-0.00895587[mg/l]	<0.00364197[mg/l]	<-0.00044059[mg/l]	<-0.03357850[mg/l]	
Conc RSD	*57.66478817*	*23.25485939*	*2.79818711*	*102.65982422*	*79.41237886*	*21.75910181*	
Conc SD	*0.00123710[mg/l]*	*0.00097051[mg/l]*	*0.00025060[mg/l]*	*0.00373884[mg/l]*	*0.00034988[mg/l]*	*0.00730638[mg/l]*	

ENTHALPY CONTINUING CALIBRATION FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211050	File:	met06_master011	Time:	18-FEB-2023 13:36
Cal:	483071211001	Caldate:	18-FEB-2023		

Standards: S17960, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0192	0.0283	1.000	1.039	mg/l	4	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	23067000	-4.01
Yttrium	A	521757	507558	-2.72
Yttrium	R	302682	284183	-6.11

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: CCV,S17960			Sample Type: Control Sample
Measure Date: 2023-02-18 13:36:38	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	339710	3618.9800000	16872.500000	50846.200000	142124	218749	76930.100000
Int RSD	*0.58495481*	*2.02198686*	*0.50711335*	*0.55753232*	*0.40526160*	*0.69570604*	*0.74277688*
Int SD	*1987.1500000*	*73.17530000*	*85.56270000*	*283.48400000*	*575.97400000*	*1521.8500000*	*571.41900000*
RelInt Mean	0.01323570	0.00916817	0.02745890	0.09312920	0.27325500	0.77029300	0.14345400
RelInt RSD	*1.06446958*	*4.04388226*	*0.57009567*	*0.45182284*	*0.35933798*	*0.35635531*	*0.64779860*
RelInt SD	*0.00014089*	*0.00037075*	*0.00015654*	*0.00042078*	*0.00098191*	*0.00274498*	*0.00092929*
Conc Mean	0.48642900[mg/l]	0.94556900[mg/l]	1.06552000[mg/l]	1.01181000[mg/l]	1.04070000[mg/l]	53.92990000[mg/l]	1.04692000[mg/l]
Conc RSD	*1.06869245*	*4.87464162*	*0.56636666*	*0.45451913*	*0.36069953*	*0.35675757*	*0.65034100*
Conc SD	*0.00519843[mg/l]*	*0.04609310[mg/l]*	*0.00603475[mg/l]*	*0.00459887[mg/l]*	*0.00375380[mg/l]*	*0.19239900[mg/l]*	*0.00680855[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	82394.300000	796926	165889	17392.100000	52459.300000	945357	70181.900000
Int RSD	*0.31680347*	*1.19920670*	*0.48772010*	*0.41723656*	*0.57677285*	*0.24862248*	*0.67588082*
Int SD	*261.02800000*	*9556.7900000*	*809.07400000*	*72.56620000*	*302.57100000*	*2350.3700000*	*474.34600000*
RelInt Mean	0.15568600	0.03324720	0.31921700	0.06136370	0.18258200	1.87450000	0.13338600
RelInt RSD	*0.18020310*	*1.81271506*	*0.49812197*	*0.78653341*	*1.26783582*	*0.10301307*	*0.51138875*
RelInt SD	*0.00028055*	*0.00060268*	*0.00159009*	*0.00048265*	*0.00231484*	*0.00193098*	*0.00068212*
Conc Mean	1.02250000[mg/l]	0.95021700[mg/l]	1.06867000[mg/l]	59.48440000[mg/l]	53.13490000[mg/l]	1.05828000[mg/l]	1.01081000[mg/l]
Conc RSD	*0.18002152*	*1.83892732*	*0.50036962*	*0.78440398*	*1.26574436*	*0.10299921*	*0.51153926*
Conc SD	*0.00184072[mg/l]*	*0.01747380[mg/l]*	*0.00534730[mg/l]*	*0.46659800[mg/l]*	*0.67255200[mg/l]*	*0.00109002[mg/l]*	*0.00517069[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	325837	44535.700000	19699.200000	13877.800000	12212.000000	134893	333613
Int RSD	*0.59806284*	*0.34237477*	*0.51282286*	*0.66884088*	*1.02689977*	*0.39162670*	*0.69330032*
Int SD	*1948.7100000*	*152.47900000*	*101.02200000*	*92.82040000*	*125.40500000*	*528.27700000*	*2312.9400000*
RelInt Mean	1.13155000	0.07823140	0.02825590	0.02025900	0.01864610	0.26351400	1.17400000
RelInt RSD	*0.34835491*	*0.21872803*	*0.80065048*	*0.69759119*	*1.36101919*	*0.30158512*	*0.24893271*
RelInt SD	*0.00394181*	*0.00017111*	*0.00022623*	*0.00014133*	*0.00025378*	*0.00079472*	*0.00292247*
Conc Mean	52.38000000[mg/l]	0.99950600[mg/l]	1.03856000[mg/l]	1.04007000[mg/l]	1.03913000[mg/l]	5.16327000[mg/l]	1.11027000[mg/l]
Conc RSD	*0.35366361*	*0.21985161*	*0.79646434*	*0.70276231*	*1.36115789*	*0.30176613*	*0.24915291*
Conc SD	*0.18524900[mg/l]*	*0.00219743[mg/l]*	*0.00827176[mg/l]*	*0.00730922[mg/l]*	*0.01414420[mg/l]*	*0.01558100[mg/l]*	*0.00276627[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	2558210	16849.600000	134789	507558	23067000	284183	109785
Int RSD	*1.18064975*	*0.99198201*	*0.96870665*	*0.19357945*	*0.63602116*	*0.92656844*	*0.34710115*
Int SD	*30203.500000*	*167.14500000*	*1305.7100000*	*982.52800000*	*146711*	*2633.1500000*	*381.06500000*
RelInt Mean	0.10929800	0.02778690	0.00551402	---	---	---	0.21198100
RelInt RSD	*1.76425003*	*1.07126740*	*1.49489846*	---	---	---	*0.21514711*
RelInt SD	*0.00192829*	*0.00029767*	*0.00008243*	---	---	---	*0.00045607*
Conc Mean	1.02311000[mg/l]	1.04491000[mg/l]	0.98965100[mg/l]	501043	23014600	283844	1.10451000[mg/l]
Conc RSD	*1.76398432*	*1.07218804*	*1.51613043*	---	---	---	*0.21575993*
Conc SD	*0.01804750[mg/l]*	*0.01120340[mg/l]*	*0.01500440[mg/l]*	*1006.6200000*	*146466*	*2639.0100000*	*0.00238309[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	73309.800000	31511.700000	190168	109112	119665	44978.200000	
Int RSD	*0.31549943*	*0.20035288*	*0.38278207*	*0.50636594*	*0.49283333*	*0.85648381*	
Int SD	*231.29200000*	*63.13460000*	*727.92900000*	*552.50600000*	*589.74900000*	*385.23100000*	
RelInt Mean	0.25784600	0.10028800	0.36998000	0.20912600	0.22846200	0.07964570	
RelInt RSD	*1.21011379*	*1.05726508*	*0.29645927*	*0.36158727*	*0.36396425*	*0.78571850*	
RelInt SD	*0.00312023*	*0.00106031*	*0.00109684*	*0.00075617*	*0.00083152*	*0.00062579*	
Conc Mean	1.04906000[mg/l]	1.07237000[mg/l]	5.66589000[mg/l]	5.53023000[mg/l]	0.98767900[mg/l]	5.51934000[mg/l]	
Conc RSD	*1.20889177*	*1.06522935*	*0.29911982*	*0.36237914*	*0.36555197*	*0.78429848*	
Conc SD	*0.01268200[mg/l]*	*0.01142320[mg/l]*	*0.01694780[mg/l]*	*0.02004040[mg/l]*	*0.00361048[mg/l]*	*0.04328810[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211051	File:	met06_master011	Time:	18-FEB-2023 13:39
Cal:	483071211001	Caldate:	18-FEB-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	[0.001910]	0.003333	---	mg/l	!CCB

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	24224200	0.80
Yttrium	A	521757	534032	2.35
Yttrium	R	302682	295972	-2.22

!=warning CCB=instrument blank

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: CCB,1			Sample Type: Control Sample
Measure Date: 2023-02-18 13:39:56	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	34484.600000	852.07100000	2805.7900000	4186.7800000	4883.4100000	379.14500000	4572.8500000
Int RSD	*0.46692147*	*9.15281708*	*0.80874192*	*0.23741396*	*0.37825003*	*19.74062694*	*0.30582678*
Int SD	*161.01600000*	*77.98850000*	*22.69160000*	*9.94000000*	*18.47150000*	*74.84560000*	*13.98500000*
RelInt Mean	0.00004780	0.00169757	-0.00016719	0.00065874	0.00020128	0.00117303	0.00006241
RelInt RSD	*21.72156782*	*17.31698840*	*13.06937740*	*2.43823426*	*19.56289746*	*19.63155248*	*57.25479514*
RelInt SD	*0.00001038*	*0.00029397*	*0.00002185*	*0.00001606*	*0.00003938*	*0.00023028*	*0.00003573*
Conc Mean	<-0.00019115[mg/l]	<0.01678600[mg/l]	<0.00073116[mg/l]	<0.00071443[mg/l]	<0.00032984[mg/l]	<0.01528960[mg/l]	<-0.00000380[mg/l]
Conc RSD	*200.44205196*	*217.72667699*	*115.25681039*	*24.58197444*	*46.49688481*	*105.58026371*	*6878.6378247*
Conc SD	*0.00038315[mg/l]*	*0.03654760[mg/l]*	*0.00084271[mg/l]*	*0.00017562[mg/l]*	*0.00015336[mg/l]*	*0.01614280[mg/l]*	*0.00026129[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3972.7500000	40606.000000	7535.1000000	-183.47000000	462.07900000	5779.6700000	3347.7600000
Int RSD	*1.11494305*	*1.42326750*	*2.24023570*	*21.94947403*	*10.85814330*	*0.73281866*	*3.68338830*
Int SD	*44.29390000*	*577.93200000*	*168.80400000*	*40.27070000*	*50.17320000*	*42.35450000*	*123.31100000*
RelInt Mean	0.00018556	0.00049119	0.00380243	-0.00040296	-0.00045491	0.00059500	0.00049405
RelInt RSD	*58.05669325*	*6.97948647*	*8.18610731*	*14.32632773*	*14.98285368*	*10.19373207*	*48.99969639*
RelInt SD	*0.00010773*	*0.00003428*	*0.00031127*	*0.00005773*	*0.00006816*	*0.00006065*	*0.00024208*
Conc Mean	<0.00034122[mg/l]	<0.00048227[mg/l]	<0.00869872[mg/l]	<-0.23231200[mg/l]	<-0.04404280[mg/l]	<0.00006400[mg/l]	0.00331953[mg/l]
Conc RSD	*207.53022199*	*206.10867469*	*12.02521750*	*24.02527635*	*44.96171906*	*53.51355912*	*55.28764614*
Conc SD	*0.00070814[mg/l]*	*0.00099399[mg/l]*	*0.00104604[mg/l]*	*0.05581360[mg/l]*	*0.01980240[mg/l]*	*0.00003425[mg/l]*	*0.00183529[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	7062.3200000	5095.0400000	5132.8300000	3519.7600000	2718.3400000	2942.4900000	270.80600000
Int RSD	*1.23521449*	*0.90114896*	*0.56827910*	*0.89941360*	*2.00758919*	*3.55114206*	*23.21204109*
Int SD	*87.23480000*	*45.91390000*	*29.16880000*	*31.65720000*	*54.57310000*	*104.49200000*	*62.85960000*
RelInt Mean	0.00991174	0.00049199	-0.00008967	0.00007495	0.00001637	0.00057606	-0.00011648
RelInt RSD	*3.58319528*	*28.41904576*	*48.46611604*	*132.16365609*	*852.76028656*	*37.16292457*	*306.40035028*
RelInt SD	*0.00035516*	*0.00013982*	*0.00004346*	*0.00009906*	*0.00013962*	*0.00021408*	*0.00035689*
Conc Mean	<-0.34806300[mg/l]	<0.00078869[mg/l]	<0.00191040[mg/l]	<0.00111999[mg/l]	<0.00091247[mg/l]	0.00918223[mg/l]	<-0.00104515[mg/l]
Conc RSD	*4.79689022*	*227.75275044*	*82.99099665*	*457.59337137*	*852.76228260*	*45.70077203*	*32.32081519*
Conc SD	*0.01669620[mg/l]*	*0.00179627[mg/l]*	*0.00158546[mg/l]*	*0.00512500[mg/l]*	*0.00778120[mg/l]*	*0.00419635[mg/l]*	*0.00033780[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	48062.200000	2601.5700000	8985.6700000	534032	24224200	295972	3468.6000000
Int RSD	*6.21009858*	*0.36202716*	*1.52310290*	*0.46874345*	*0.67876339*	*0.16834228*	*0.69411578*
Int SD	*2984.7100000*	*9.41839000*	*136.86100000*	*2503.2400000*	*164425*	*498.24600000*	*24.07610000*
RelInt Mean	0.00042132	-0.00015361	0.00008345	---	---	---	0.00047401
RelInt RSD	*29.49712688*	*26.68370137*	*5.96557241*	---	---	---	*3.35643401*
RelInt SD	*0.00012428*	*0.00004099*	*0.00000498*	---	---	---	*0.00001591*
Conc Mean	0.00392035[mg/l]	<0.00231404[mg/l]	<0.00151902[mg/l]	527733	24172900	295601	<-0.00001715[mg/l]
Conc RSD	*29.67490148*	*66.13368827*	*59.62271728*	---	---	---	*486.68699424*
Conc SD	*0.00116336[mg/l]*	*0.00153036[mg/l]*	*0.00090568[mg/l]*	*2484.7100000*	*164479*	*476.72000000*	*0.00008348[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-62.86710000	3088.0200000	4732.2700000	4209.4600000	4611.9400000	4508.2900000	
Int RSD	*168.18335823*	*3.71169876*	*1.15136710*	*2.15347812*	*0.57600272*	*0.17735904*	
Int SD	*105.73200000*	*114.61800000*	*54.48580000*	*90.64980000*	*26.56490000*	*7.99586000*	
RelInt Mean	-0.00058206	0.00060997	0.00123767	0.00064244	0.00019936	-0.00040297	
RelInt RSD	*52.91472887*	*9.20319032*	*10.00218152*	*33.82276944*	*43.81170215*	*5.25952433*	
RelInt SD	*0.00030800*	*0.00005614*	*0.00012379*	*0.00021729*	*0.00008735*	*0.00002119*	
Conc Mean	<-0.00154549[mg/l]	<-0.00154961[mg/l]	<-0.00840784[mg/l]	<0.00432557[mg/l]	<-0.00030432[mg/l]	<-0.01825350[mg/l]	
Conc RSD	*81.01702373*	*39.02994947*	*22.39362309*	*133.14730775*	*124.35446665*	*8.03226778*	
Conc SD	*0.00125211[mg/l]*	*0.00060481[mg/l]*	*0.00188282[mg/l]*	*0.00575938[mg/l]*	*0.00037844[mg/l]*	*0.00146617[mg/l]*	

ENTHALPY CONTINUING CALIBRATION FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211062.1	File:	met06_master011	Time:	18-FEB-2023 14:16
Cal:	483071211001	Caldate:	18-FEB-2023		

Standards: S17960, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0192	0.0285	1.000	1.048	mg/l	5	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	22752800	-5.32
Yttrium	A	521757	498980	-4.37
Yttrium	R	302682	282964	-6.51

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: CCV,S17960	Sample Type: Control Sample		
Measure Date: 2023-02-18 14:16:26	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	336245	3491.6800000	16585.700000	50095.800000	139692	217839	75667.100000
Int RSD	*0.84406311*	*1.08141640*	*0.92969848*	*0.50671513*	*0.55582711*	*0.49792737*	*0.51315697*
Int SD	*2838.1200000*	*37.75960000*	*154.19700000*	*253.84300000*	*776.44600000*	*1084.6800000*	*388.29100000*
RelInt Mean	0.01331160	0.00902268	0.02741550	0.09335290	0.27319400	0.77047200	0.14344200
RelInt RSD	*1.12464317*	*5.27460799*	*1.02625887*	*0.42281600*	*0.36974092*	*0.33247931*	*0.56446508*
RelInt SD	*0.00014971*	*0.00047591*	*0.00028135*	*0.00039471*	*0.00101011*	*0.00256166*	*0.00080968*
Conc Mean	0.48922900[mg/l]	0.92748100[mg/l]	1.06385000[mg/l]	1.01426000[mg/l]	1.04044000[mg/l]	53.94250000[mg/l]	1.04684000[mg/l]
Conc RSD	*1.12900503*	*6.37942988*	*1.02025662*	*0.42548952*	*0.36849218*	*0.33287482*	*0.56383115*
Conc SD	*0.00552342[mg/l]*	*0.05916800[mg/l]*	*0.01085400[mg/l]*	*0.00431557[mg/l]*	*0.00383394[mg/l]*	*0.17956100[mg/l]*	*0.00590241[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	80531.900000	790270	162294	17155.100000	52202.500000	930432	69449.500000
Int RSD	*0.50674950*	*1.38235034*	*0.44347665*	*1.30523285*	*0.62245103*	*0.46731196*	*0.94902051*
Int SD	*408.09500000*	*10924.300000*	*719.73600000*	*223.91400000*	*324.93500000*	*4348.0200000*	*659.09000000*
RelInt Mean	0.15480900	0.03343980	0.31763200	0.06084520	0.18240000	1.87680000	0.13428100
RelInt RSD	*0.28776815*	*1.58255432*	*0.28893373*	*2.30228514*	*0.37793750*	*0.28369778*	*0.83877094*
RelInt SD	*0.00044549*	*0.00052920*	*0.00091775*	*0.00140083*	*0.00068936*	*0.00532444*	*0.00112631*
Conc Mean	1.01673000[mg/l]	0.95580200[mg/l]	1.06335000[mg/l]	58.98310000[mg/l]	53.08200000[mg/l]	1.05958000[mg/l]	1.01758000[mg/l]
Conc RSD	*0.28778142*	*1.60530110*	*0.28975220*	*2.29611533*	*0.37735956*	*0.28384926*	*0.83900332*
Conc SD	*0.00292596[mg/l]*	*0.01534350[mg/l]*	*0.00308108[mg/l]*	*1.35432000[mg/l]*	*0.20031000[mg/l]*	*0.00300761[mg/l]*	*0.00853753[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	326145	43820.900000	19497.800000	13574.700000	12172.200000	133743	336227
Int RSD	*1.04004354*	*0.44439982*	*0.56510991*	*0.65223541*	*1.47018616*	*0.39410960*	*1.14177029*
Int SD	*3392.0500000*	*194.74000000*	*110.18400000*	*88.53900000*	*178.95400000*	*527.09400000*	*3838.9400000*
RelInt Mean	1.13791000	0.07833790	0.02852000	0.02012820	0.01897900	0.26578400	1.18837000
RelInt RSD	*0.40695398*	*0.51018855*	*1.00246143*	*0.79008058*	*1.75250540*	*0.55354348*	*0.40770131*
RelInt SD	*0.00463077*	*0.00039967*	*0.00028590*	*0.00015903*	*0.00033261*	*0.00147123*	*0.00484500*
Conc Mean	52.67910000[mg/l]	1.00087000[mg/l]	1.04823000[mg/l]	1.03333000[mg/l]	1.05768000[mg/l]	5.20777000[mg/l]	1.12388000[mg/l]
Conc RSD	*0.41311640*	*0.51326246*	*0.99869303*	*0.79525515*	*1.75282694*	*0.55378214*	*0.40821618*
Conc SD	*0.21762600[mg/l]*	*0.00513709[mg/l]*	*0.01046860[mg/l]*	*0.00821761[mg/l]*	*0.01853930[mg/l]*	*0.02883970[mg/l]*	*0.00458786[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	2523480	16598.200000	133266	498980	22752800	282964	107822
Int RSD	*1.90628022*	*0.53189623*	*1.33905872*	*0.24446270*	*0.56522274*	*0.75991999*	*0.31672850*
Int SD	*48104.600000*	*88.28520000*	*1784.5100000*	*1219.8200000*	*128604*	*2150.3000000*	*341.50300000*
RelInt Mean	0.10932800	0.02784730	0.00553520	---	---	---	0.21176000
RelInt RSD	*2.14022940*	*0.93451430*	*1.67990317*	---	---	---	*0.06027295*
RelInt SD	*0.00233987*	*0.00026024*	*0.00009299*	---	---	---	*0.00012763*
Conc Mean	1.02340000[mg/l]	1.04716000[mg/l]	0.99350500[mg/l]	492554	22701500	282631	1.10336000[mg/l]
Conc RSD	*2.14064882*	*0.92989228*	*1.70342374*	---	---	---	*0.06009362*
Conc SD	*0.02190740[mg/l]*	*0.00973746[mg/l]*	*0.01692360[mg/l]*	*1267.5900000*	*128488*	*2083.9500000*	*0.00066305[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	72971.800000	31324.000000	187697	108437	117998	44616.300000	
Int RSD	*0.22948317*	*0.79839739*	*0.42245907*	*0.50077925*	*0.34972372*	*0.89801485*	
Int SD	*167.45800000*	*250.09000000*	*792.94300000*	*543.03000000*	*412.66700000*	*400.66100000*	
RelInt Mean	0.25753900	0.10025800	0.37158400	0.21145400	0.22925100	0.08042760	
RelInt RSD	*0.66919185*	*0.67777733*	*0.41188803*	*0.47507259*	*0.35511514*	*1.00308476*	
RelInt SD	*0.00172343*	*0.00067953*	*0.00153051*	*0.00100456*	*0.00081410*	*0.00080676*	
Conc Mean	1.04781000[mg/l]	1.07205000[mg/l]	5.69050000[mg/l]	5.59191000[mg/l]	0.99111400[mg/l]	5.57342000[mg/l]	
Conc RSD	*0.66894666*	*0.68267991*	*0.41288287*	*0.47622548*	*0.35303608*	*1.00142282*	
Conc SD	*0.00700929[mg/l]*	*0.00731867[mg/l]*	*0.02349510[mg/l]*	*0.02663010[mg/l]*	*0.00349899[mg/l]*	*0.05581350[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 479661 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	483071211063.1	File:	met06_master011	Time:	18-FEB-2023 14:19
Cal:	483071211001	Caldate:	18-FEB-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24031400	24010700	-0.09
Yttrium	A	521757	521997	0.05
Yttrium	R	302682	296302	-2.11

Method Name: Met06_Master011923 Method Autor: Operator

Sample Name: CCB,1			Sample Type: Control Sample
Measure Date: 2023-02-18 14:19:44	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	33392.600000	839.91800000	2702.3800000	4019.6400000	4714.8100000	369.00700000	4393.4300000
Int RSD	*0.32399993*	*6.90959117*	*1.29322301*	*1.90692450*	*0.50805229*	*33.31400217*	*0.75827542*
Int SD	*108.19200000*	*58.03490000*	*34.94780000*	*76.65150000*	*23.95370000*	*122.93100000*	*33.31430000*
RelInt Mean	0.00005287	0.00167664	-0.00025488	0.00062080	0.00015739	0.00094345	-0.00001213
RelInt RSD	*20.77989382*	*19.19320784*	*36.15059872*	*27.76496285*	*4.00688095*	*46.01801897*	*494.54911241*
RelInt SD	*0.00001099*	*0.00032180*	*0.00009214*	*0.00017237*	*0.00000631*	*0.00043416*	*0.00005998*
Conc Mean	<-0.00000418[mg/l]	<0.01418370[mg/l]	<-0.00265163[mg/l]	<0.00029963[mg/l]	<0.00016028[mg/l]	<-0.00080398[mg/l]	<-0.00054949[mg/l]
Conc RSD	*9694.0385949*	*282.07167382*	*134.04999943*	*629.01874664*	*18.60585982*	*3785.4424239*	*79.74099573*
Conc SD	*0.00040540[mg/l]*	*0.04000820[mg/l]*	*0.00355451[mg/l]*	*0.00188471[mg/l]*	*0.00002982[mg/l]*	*0.03043420[mg/l]*	*0.00043817[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3831.0200000	39912.400000	6571.3000000	-161.51900000	521.22700000	5544.9800000	3294.7700000
Int RSD	*0.37348278*	*1.63186629*	*2.48258335*	*29.70944595*	*14.66409069*	*0.35870643*	*3.86221193*
Int SD	*14.30820000*	*651.31700000*	*163.13800000*	*47.98640000*	*76.43320000*	*19.89020000*	*127.25100000*
RelInt Mean	0.00020841	0.00050772	0.00238785	-0.00033840	0.00002264	0.00044552	0.00055678
RelInt RSD	*24.15143591*	*5.34024659*	*13.56965471*	*18.35825924*	*1224.8192462*	*8.35548333*	*54.26030795*
RelInt SD	*0.00005033*	*0.00002711*	*0.00032402*	*0.00006212*	*0.00027731*	*0.00003723*	*0.00030211*
Conc Mean	<0.00049139[mg/l]	0.00096159[mg/l]	<0.00394491[mg/l]	<-0.16989500[mg/l]	<0.09470240[mg/l]	<-0.00002041[mg/l]	0.00379510[mg/l]
Conc RSD	*67.32988598*	*81.75470707*	*27.60265760*	*35.35307101*	*85.07672456*	*103.02327861*	*60.35045190*
Conc SD	*0.00033085[mg/l]*	*0.00078614[mg/l]*	*0.00108890[mg/l]*	*0.06006310[mg/l]*	*0.08056970[mg/l]*	*0.00002102[mg/l]*	*0.00229036[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	7003.9200000	4901.7100000	4961.9900000	3472.9000000	2654.5500000	2847.3700000	267.16700000
Int RSD	*0.93051320*	*0.92399183*	*0.23054057*	*1.21487518*	*1.34843570*	*4.39254470*	*27.76357110*
Int SD	*65.17240000*	*45.29140000*	*11.43940000*	*42.19140000*	*35.79490000*	*125.07200000*	*74.17510000*
RelInt Mean	0.01044350	0.00040514	-0.00018189	0.00018126	0.00013115	0.00053043	-0.00030651
RelInt RSD	*1.63038253*	*20.64241673*	*9.76958601*	*33.31919190*	*39.26852516*	*42.67559033*	*127.36250722*
RelInt SD	*0.00017027*	*0.00008363*	*0.00001777*	*0.00006040*	*0.00005150*	*0.00022636*	*0.00039038*
Conc Mean	<-0.32306700[mg/l]	<-0.00032709[mg/l]	<-0.00146246[mg/l]	0.00662294[mg/l]	0.00730862[mg/l]	0.00828775[mg/l]	<-0.00122501[mg/l]
Conc RSD	*2.47732204*	*328.47534318*	*43.89036281*	*47.18674788*	*39.26883598*	*53.53865645*	*30.16261092*
Conc SD	*0.00800341[mg/l]*	*0.00107441[mg/l]*	*0.00064188[mg/l]*	*0.00312515[mg/l]*	*0.00287001[mg/l]*	*0.00443715[mg/l]*	*0.00036950[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	47702.200000	2539.0200000	8952.4300000	521997	24010700	296302	3315.3400000
Int RSD	*6.95739400*	*0.88919347*	*1.11046833*	*0.16799369*	*0.45649648*	*0.61202759*	*2.11972829*
Int SD	*3318.8300000*	*22.57680000*	*99.41390000*	*876.92200000*	*109608*	*1813.4500000*	*70.27620000*
RelInt Mean	0.00045766	-0.00014409	0.00009101	---	---	---	0.00037398
RelInt RSD	*30.90628216*	*19.97265541*	*5.49590078*	---	---	---	*31.32101000*
RelInt SD	*0.00014145*	*0.00002878*	*0.00000500*	---	---	---	*0.00011713*
Conc Mean	0.00426055[mg/l]	0.00266901[mg/l]	0.00289398[mg/l]	515934	23960900	296035	<-0.00053986[mg/l]
Conc RSD	*31.07744305*	*40.11112735*	*31.42948465*	---	---	---	*113.35465969*
Conc SD	*0.00132407[mg/l]*	*0.00107057[mg/l]*	*0.00090956[mg/l]*	*850.99700000*	*109392*	*1836.9000000*	*0.00061196[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-22.06710000	2923.7100000	4483.6200000	4139.1800000	4480.7500000	4428.2600000	
Int RSD	*445.16406778*	*8.75264647*	*0.80959805*	*0.80385487*	*0.68338559*	*0.27509451*	
Int SD	*98.23480000*	*255.90200000*	*36.29930000*	*33.27300000*	*30.62080000*	*12.18190000*	
RelInt Mean	-0.00033462	0.00056371	0.00105814	0.00062094	0.00019118	-0.00042530	
RelInt RSD	*174.11929950*	*89.35014112*	*2.93231519*	*7.17025800*	*32.35462425*	*5.85087197*	
RelInt SD	*0.00058264*	*0.00050367*	*0.00003103*	*0.00004452*	*0.00006185*	*0.00002488*	
Conc Mean	<-0.00053955[mg/l]	<-0.00204805[mg/l]	<-0.01119210[mg/l]	<0.00375569[mg/l]	<-0.00032759[mg/l]	<-0.01979840[mg/l]	
Conc RSD	*438.99776482*	*264.96130466*	*3.82866486*	*31.42165621*	*81.08659220*	*8.69454097*	
Conc SD	*0.00236863[mg/l]*	*0.00542654[mg/l]*	*0.00042851[mg/l]*	*0.00118010[mg/l]*	*0.00026563[mg/l]*	*0.00172138[mg/l]*	

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

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Lab Job Number:	481683
Report Level:	IV
Report Date:	03/24/2023

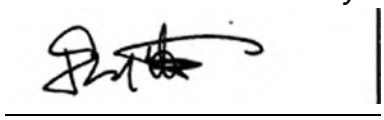
PCBs

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	481683
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	03/16/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-P-LA	481683-001	03/16/23 11:15	Wipe
ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-P-LA	481683-003	03/16/23 11:45	Wipe
ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-P-LA	481683-005	03/16/23 12:20	Wipe
ARCH-C3E-DG-2.5 TO 3-230316-P-FB	481683-007	03/16/23 12:00	Wipe

Case Narrative

PCBS (EPA 8082)

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Austin Moore	Lab Job Number: 481683 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 03/16/23

This data package contains sample and QC results for four wipe samples, requested for the above referenced project on 03/17/23. See attached cooler receipt form for any sample receipt problems or discrepancies.

PCBs (EPA 8082):

No analytical problems were encountered.

Chain of Custody

481683

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (PB)	custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level IV

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T.Sinnott + M.Kim

Test Instructions / Comments

Confirmation Wipe Samples - Level IV Report/Stage 3 Validation

Report PCB concentrations on a µg/100cm2 basis

Report lead concentrations on a µg/ft2 basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 3546/8082	Lead by EPA Method 3050M/6010B	HOLD
1	ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-P-LA	3/16/2023	1115	WP	1		X		
2	ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-L-LA	3/16/2023	1115	WP	1			X	
3	ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-P-LA	3/16/2023	1145	WP	1		X		
4	ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-L-LA	3/16/2023	1145	WP	1			X	
5	ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-P-LA	3/16/2023	1220	WP	1		X		
6	ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-L-LA	3/16/2023	1220	WP	1			X	
7	ARCH-C3E-DG-2.5 TO 3-230316-P-FB	3/16/2023	1200	WP	1		X		
8	ARCH-C3E-DG-2.5 TO 3-230316-L-FB	3/16/2023	1200	WP	1			X	
9									
10									
11									
12									
13									
14									
15									

2x Rivet Type 2 = 0.0200 ft2

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	T Sinnott	Tyler Sinnott	Rincon / Envi. Scientist	3/16/23 / 1435
1 Received By:	Audrey Hudson	Audrey Hudson	Enthalpy	3/16/23 / 14:35
2 Relinquished By:	Audrey Hudson	Audrey Hudson	"	3/16/23 / 16:20
2 Received By:		Kincaid Yi		3/16/23 / 16:20
3 Relinquished By:		JSP	Enthalpy	3.16.23 / 17:00
3 Received By:		Brown		3/17/23 / 1000

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 481683 Client: Rincon

Date Received: 3.16.23 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☑ Yes. If yes, where? ☑ on cooler, ☐ on samples, ☐ on package

☑ Date: 3/16/23 How many 1 ☑ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 3-16-23 By (print) JJP (sign) [signature]

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 3.16.23 **By (print)** JJP **(sign)** [signature]

Date Labeled 3.16.23 **By (print)** JJP **(sign)** [signature]

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 3/17/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 4.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.1 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

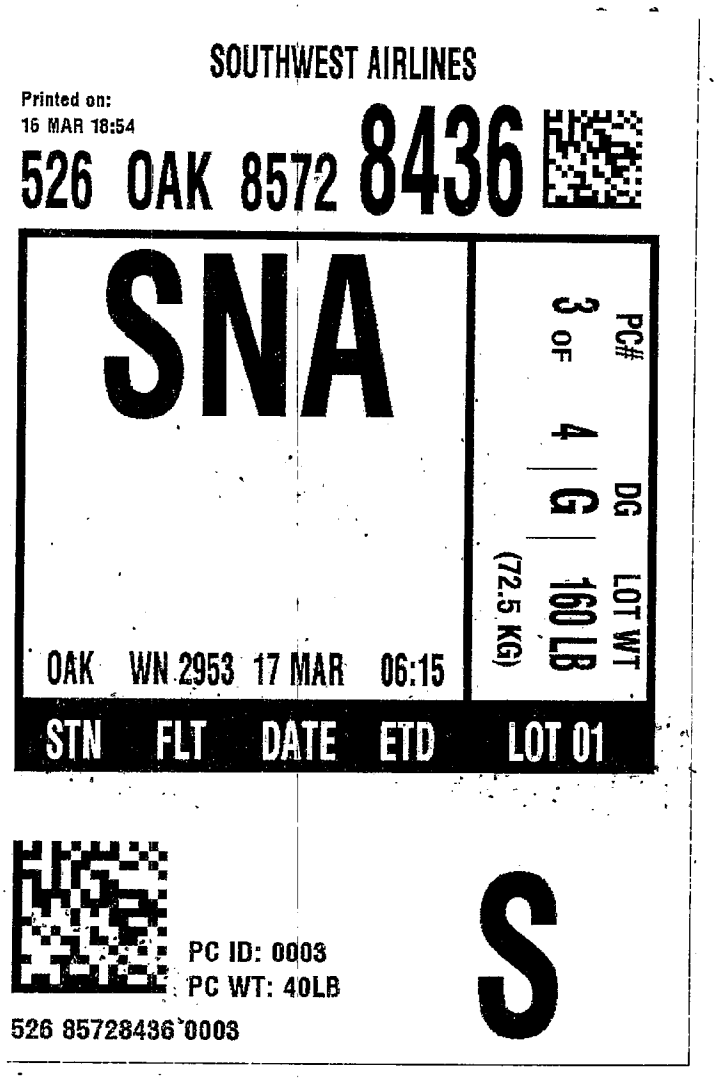
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 3/17/23

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www.enthalpy.com/socal


SOUTHWEST AIRLINES
Printed on:
16 MAR 18:54
526 OAK 8572 8436
SNA
PC# 3 OF 4
DG G
LOT WT 160 LB (72.5 KG)
OAK WN 2953 17 MAR 06:15
STN FLT DATE ETD LOT 01
PC ID: 0003
PC WT: 40LB
526 85728436 0003
S

2.1 /4.9

Results & QC Summary

Enthalpy Analytical - Orange Analytical Report

Lab #: 481683 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-P-LA **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481683-001 **Received:** 03/16/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 03/18/23

DiIn Fac: 1.000 **Analyzed:** 03/20/23

481683-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481683-001 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	79	19-121

Field ID: ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-P-LA **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481683-003 **Received:** 03/16/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 03/18/23

DiIn Fac: 1.000 **Analyzed:** 03/20/23

481683-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481683-003 Surrogate	%REC	Limits
TCMX (PCB)	75	19-121
Decachlorobiphenyl (PCB)	82	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 481683 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-P-LA **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481683-005 **Received:** 03/16/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481683-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481683-005 Surrogate	%REC	Limits
TCMX (PCB)	82	19-121
Decachlorobiphenyl (PCB)	85	19-121

Field ID: ARCH-C3E-DG-2.5 TO 3-230316-P-FB **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481683-007 **Received:** 03/16/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481683-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481683-007 Surrogate	%REC	Limits
TCMX (PCB)	77	19-121
Decachlorobiphenyl (PCB)	79	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 481683 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BLANK **Batch#:** 310026 **Analysis:** EPA 8082

Lab ID: QC1052911 **Prepared:** 03/18/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 03/20/23

Dil'n Fac: 1.000 **Prep:** EPA 3546

QC1052911 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1052911 Surrogate	%REC	Limits
TCMX (PCB)	83	19-121
Decachlorobiphenyl (PCB)	94	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 481683 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 310026 **Analysis:** EPA 8082

Lab ID: QC1052912 **Prepared:** 03/18/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 03/20/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1052912 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.558	91	60-140	ug/100 cm2
Aroclor-1260	5.000	4.194	84	60-140	ug/100 cm2

QC1052912 Surrogate	%REC	Limits
TCMX (PCB)	83	19-121
Decachlorobiphenyl (PCB)	87	19-121

Type: BSD **Batch#:** 310026 **Analysis:** EPA 8082

Lab ID: QC1052913 **Prepared:** 03/18/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 03/20/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1052913 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	4.397	88	60-140	ug/100 cm2	4	20
Aroclor-1260	5.000	4.097	82	60-140	ug/100 cm2	2	20

QC1052913 Surrogate	%REC	Limits
TCMX (PCB)	82	19-121
Decachlorobiphenyl (PCB)	86	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY INITIAL CALIBRATION FOR 481683 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_030623_1
Calibration #:	453094313002	Date:	06-MAR-2023 18:11
Units:	ug/L		

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_030623020	453094313020		06-MAR-2023 18:11	S17807
L2	gc06_030623021	453094313021		06-MAR-2023 18:30	S17797
L3	gc06_030623022	453094313022		06-MAR-2023 18:48	S17798
L4	gc06_030623023	453094313023		06-MAR-2023 19:06	S17799
L5	gc06_030623024	453094313024		06-MAR-2023 19:25	S17800
L6	gc06_030623025	453094313025		06-MAR-2023 19:43	S17801
L7	gc06_030623026	453094313026		06-MAR-2023 20:01	S17802
L8	gc06_030623027	453094313027		06-MAR-2023 20:20	S17803
L9	gc06_030623028	453094313028		06-MAR-2023 20:38	S17804
L10	gc06_030623029	453094313029		06-MAR-2023 20:56	S17805

Analyte	Ch	Type	X	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG	R		48.8696		0.0205		15	9	.99	20	
Aroclor-1016 Peak # 2	A	QUAD	A	0.80821	0.04241	-5.11E-6	0.0442	0.999		9	.99	20	
Aroclor-1016 Peak # 3	A	QUAD	A	0.79650	0.05312	-6.64E-6	0.0547	1.000		9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG	R		25.0206		0.0400		17	9	.99	20	
Aroclor-1016 Peak # 5	A	AVRG	R		43.9453		0.0228		14	9	.99	20	
Aroclor-1260 Peak # 1	A	QUAD	A	0.27944	0.07086	-1.25E-5	0.0662	0.999		9	.99	20	
Aroclor-1260 Peak # 2	A	AVRG	R		10.8604		0.0921		17	9	.99	20	
Aroclor-1260 Peak # 3	A	AVRG	R		9.94289		0.1006		18	9	.99	20	
Aroclor-1260 Peak # 4	A	AVRG	R		16.9019		0.0592		19	10	.99	20	
Aroclor-1260 Peak # 5	A	AVRG	R		15.9125		0.0628		11	9	.99	20	
Decachlorobiphenyl (PCB)	A	AVRG	R		0.84070		1.1895		15	9	.99	20	
TCMX (PCB)	A	AVRG	R		1.07797		0.9277		17	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG	R		52.5059		0.0190		11	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG	R		23.7208		0.0422		17	10	.99	20	
Aroclor-1016 Peak # 3	B	AVRG	R		19.4366		0.0514		15	10	.99	20	
Aroclor-1016 Peak # 4	B	AVRG	R		26.3155		0.0380		16	10	.99	20	
Aroclor-1016 Peak # 5	B	AVRG	R		32.3673		0.0309		18	10	.99	20	
Aroclor-1260 Peak # 1	B	AVRG	R		18.8321		0.0531		14	9	.99	20	
Aroclor-1260 Peak # 2	B	AVRG	R		15.4369		0.0648		16	9	.99	20	
Aroclor-1260 Peak # 3	B	AVRG	R		11.6445		0.0859		19	10	.99	20	
Aroclor-1260 Peak # 4	B	AVRG	R		19.8790		0.0503		16	9	.99	20	
Aroclor-1260 Peak # 5	B	AVRG	R		12.9867		0.0770		15	10	.99	20	
Decachlorobiphenyl (PCB)	B	AVRG	R		1.03922		0.9623		13	9	.99	20	
TCMX (PCB)	B	AVRG	R		1.04111		0.9605		19	10	.99	20	

Where the X-Axis holds the (A)mount: Instrument response = a0 + (amount × a1) + (amount² × a2) (invert equation before quantitating)
Where the X-Axis holds the (R)esponse: Instrument amount = a0 + (response × a1) + (response² × a2)
AVRG: Average response factor
QUAD: Quadratic regression

ENTHALPY INITIAL CALIBRATION FOR 481683 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_030623_1
Calibration #:	453094313002	Date:	06-MAR-2023 18:11
Units:	ug/L		

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF	L10 RF
Aroclor-1016 Peak # 1	A		0.0256	0.0227	0.0229	0.0222	0.0206	0.0190	0.0182	0.0170	0.0160
Aroclor-1016 Peak # 2	A		0.0629	0.0499	0.0501	0.0475	0.0431	0.0392	0.0375	0.0353	0.0327
Aroclor-1016 Peak # 3	A		0.0790	0.0630	0.0607	0.0576	0.0522	0.0480	0.0475	0.0437	0.0403
Aroclor-1016 Peak # 4	A		0.0522	0.0443	0.0445	0.0429	0.0398	0.0367	0.0353	0.0333	0.0307
Aroclor-1016 Peak # 5	A		0.0258	0.0246	0.0264	0.0260	0.0235	0.0213	0.0207	0.0192	0.0174
Aroclor-1260 Peak # 1	A		0.0978	0.0710	0.0742	0.0714	0.0634	0.0602	0.0597	0.0527	0.0457
Aroclor-1260 Peak # 2	A		0.1159	0.0996	0.1061	0.1022	0.0920	0.0845	0.0841	0.0776	0.0667
Aroclor-1260 Peak # 3	A		0.1363	0.1095	0.1113	0.1090	0.0977	0.0915	0.0930	0.0848	0.0722
Aroclor-1260 Peak # 4	A	0.0816	0.0713	0.0547	0.0630	0.0628	0.0573	0.0534	0.0551	0.0498	0.0425
Aroclor-1260 Peak # 5	A		0.0740	0.0633	0.0681	0.0687	0.0631	0.0597	0.0621	0.0578	0.0489
Decachlorobiphenyl (PCB)	A		1.5624	1.1536	1.2711	1.1231	1.2297	1.1105	1.2521	1.1022	0.9007
TCMX (PCB)	A		1.2871	1.0300	0.9948	0.8857	0.8813	0.8190	0.8223	0.8236	0.8051
Aroclor-1016 Peak # 1	B		0.0228	0.0199	0.0209	0.0203	0.0193	0.0182	0.0174	0.0167	0.0159
Aroclor-1016 Peak # 2	B	0.0582	0.0478	0.0423	0.0442	0.0430	0.0410	0.0385	0.0371	0.0357	0.0336
Aroclor-1016 Peak # 3	B	0.0695	0.0583	0.0502	0.0535	0.0525	0.0492	0.0468	0.0461	0.0456	0.0427
Aroclor-1016 Peak # 4	B	0.0513	0.0449	0.0379	0.0392	0.0387	0.0367	0.0347	0.0340	0.0325	0.0303
Aroclor-1016 Peak # 5	B	0.0436	0.0367	0.0303	0.0311	0.0309	0.0296	0.0279	0.0276	0.0267	0.0245
Aroclor-1260 Peak # 1	B		0.0679	0.0539	0.0575	0.0572	0.0528	0.0492	0.0497	0.0474	0.0423
Aroclor-1260 Peak # 2	B		0.0858	0.0690	0.0706	0.0693	0.0634	0.0586	0.0596	0.0571	0.0496
Aroclor-1260 Peak # 3	B	0.1203	0.1074	0.0807	0.0851	0.0868	0.0811	0.0783	0.0813	0.0736	0.0641
Aroclor-1260 Peak # 4	B		0.0690	0.0503	0.0517	0.0525	0.0495	0.0462	0.0482	0.0456	0.0399
Aroclor-1260 Peak # 5	B	0.0981	0.0905	0.0705	0.0752	0.0793	0.0755	0.0747	0.0808	0.0679	0.0575
Decachlorobiphenyl (PCB)	B		1.2037	0.9076	1.0125	0.9044	1.0117	0.9102	1.0415	0.9146	0.7542
TCMX (PCB)	B	1.4319	1.0764	0.9437	0.9509	0.8748	0.8990	0.8507	0.8592	0.8647	0.8537

ENTHALPY INITIAL CALIBRATION FOR 481683 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_030623_1
Calibration #:	453094313002	Date:	06-MAR-2023 18:11
Units:	ug/L		

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A			20.000	**25**	50.000	11	100.00	12	250.00	9	500.00	1	749.91	-7	1000.0	-11
Aroclor-1016 Peak # 2	A			20.000	**-47**	50.000	-20	100.00	0	250.00	8	500.00	4	749.91	-1	1000.0	-2
Aroclor-1016 Peak # 3	A			20.000	**-26**	50.000	-11	100.00	0	250.00	6	500.00	2	749.91	-3	1000.0	1
Aroclor-1016 Peak # 4	A			20.000	**31**	50.000	11	100.00	11	250.00	7	500.00	-1	749.91	-8	1000.0	-12
Aroclor-1016 Peak # 5	A			20.000	13	50.000	8	100.00	16	250.00	14	500.00	3	749.91	-6	1000.0	-9
Aroclor-1260 Peak # 1	A			20.000	19	50.000	-7	100.00	3	250.00	4	500.00	-3	749.91	-3	1000.0	2
Aroclor-1260 Peak # 2	A			20.000	**26**	50.000	8	100.00	15	250.00	11	500.00	0	749.91	-8	1000.0	-9
Aroclor-1260 Peak # 3	A			20.000	**36**	50.000	9	100.00	11	250.00	8	500.00	-3	749.91	-9	1000.0	-8
Aroclor-1260 Peak # 4	A	10.000	**38**	20.000	**21**	50.000	-7	100.00	6	250.00	6	500.00	-3	749.91	-10	1000.0	-7
Aroclor-1260 Peak # 5	A			20.000	18	50.000	1	100.00	8	250.00	9	500.00	0	749.91	-5	1000.0	-1
Decachlorobiphenyl (PCB)	A			1.6000	**31**	4.0000	-3	8.0000	7	20.000	-6	40.000	3	59.993	-7	80.000	5
TCMX (PCB)	A			1.6000	**39**	4.0000	11	8.0000	7	20.000	-5	40.000	-5	59.993	-12	80.000	-11
Aroclor-1016 Peak # 1	B			20.000	20	50.000	4	100.00	9	250.00	7	500.00	1	749.91	-5	1000.0	-8
Aroclor-1016 Peak # 2	B	10.000	**38**	20.000	14	50.000	0	100.00	5	250.00	2	500.00	-3	749.91	-9	1000.0	-12
Aroclor-1016 Peak # 3	B	10.000	**35**	20.000	13	50.000	-2	100.00	4	250.00	2	500.00	-4	749.91	-9	1000.0	-10
Aroclor-1016 Peak # 4	B	10.000	**35**	20.000	18	50.000	0	100.00	3	250.00	2	500.00	-4	749.91	-9	1000.0	-11
Aroclor-1016 Peak # 5	B	10.000	**41**	20.000	19	50.000	-2	100.00	1	250.00	0	500.00	-4	749.91	-10	1000.0	-11
Aroclor-1260 Peak # 1	B			20.000	**28**	50.000	1	100.00	8	250.00	8	500.00	-1	749.91	-7	1000.0	-6
Aroclor-1260 Peak # 2	B			20.000	**32**	50.000	7	100.00	9	250.00	7	500.00	-2	749.91	-9	1000.0	-8
Aroclor-1260 Peak # 3	B	10.000	**40**	20.000	**25**	50.000	-6	100.00	-1	250.00	1	500.00	-6	749.91	-9	1000.0	-5
Aroclor-1260 Peak # 4	B			20.000	**37**	50.000	0	100.00	3	250.00	4	500.00	-2	749.91	-8	1000.0	-4
Aroclor-1260 Peak # 5	B	10.000	**27**	20.000	18	50.000	-8	100.00	-2	250.00	3	500.00	-2	749.91	-3	1000.0	5
Decachlorobiphenyl (PCB)	B			1.6000	**25**	4.0000	-6	8.0000	5	20.000	-6	40.000	5	59.993	-5	80.000	8
TCMX (PCB)	B	0.8000	**49**	1.6000	12	4.0000	-2	8.0000	-1	20.000	-9	40.000	-6	59.993	-11	80.000	-11

ENTHALPY INITIAL CALIBRATION FOR 481683 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_030623_1
Calibration #:	453094313002	Date:	06-MAR-2023 18:11
Units:	ug/L		

Spiked Amounts / Drifts	Ch	L9	%D	L10	%D
Aroclor-1016 Peak # 1	A	1500.0	-17	2000.0	**-22**
Aroclor-1016 Peak # 2	A	1500.0	0	2000.0	0
Aroclor-1016 Peak # 3	A	1500.0	0	2000.0	0
Aroclor-1016 Peak # 4	A	1500.0	-17	2000.0	**-23**
Aroclor-1016 Peak # 5	A	1500.0	-16	2000.0	**-23**
Aroclor-1260 Peak # 1	A	1500.0	1	2000.0	-1
Aroclor-1260 Peak # 2	A	1500.0	-16	2000.0	**-28**
Aroclor-1260 Peak # 3	A	1500.0	-16	2000.0	**-28**
Aroclor-1260 Peak # 4	A	1500.0	-16	2000.0	**-28**
Aroclor-1260 Peak # 5	A	1500.0	-8	2000.0	**-22**
Decachlorobiphenyl (PCB)	A	120.00	-7	160.00	**-24**
TCMX (PCB)	A	120.00	-11	160.00	-13
Aroclor-1016 Peak # 1	B	1500.0	-12	2000.0	-16
Aroclor-1016 Peak # 2	B	1500.0	-15	2000.0	-20
Aroclor-1016 Peak # 3	B	1500.0	-11	2000.0	-17
Aroclor-1016 Peak # 4	B	1500.0	-15	2000.0	-20
Aroclor-1016 Peak # 5	B	1500.0	-14	2000.0	**-21**
Aroclor-1260 Peak # 1	B	1500.0	-11	2000.0	-20
Aroclor-1260 Peak # 2	B	1500.0	-12	2000.0	**-23**
Aroclor-1260 Peak # 3	B	1500.0	-14	2000.0	**-25**
Aroclor-1260 Peak # 4	B	1500.0	-9	2000.0	**-21**
Aroclor-1260 Peak # 5	B	1500.0	-12	2000.0	**-25**
Decachlorobiphenyl (PCB)	B	120.00	-5	160.00	**-22**
TCMX (PCB)	B	120.00	-10	160.00	-11

TJW 03/07/23 : Manually integrated due to baseline corrections for all channels in multiple levels

Analyst: TJW 03/07/23

Reviewer: LW 03/08/23

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 481683 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Name:	PCB_030623_1
Calnum:	453094313002	Cal Date:	06-MAR-2023

- ICV 453094313031 (gc06_030623031 06-MAR-2023) stds: S17806

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	509.4	ug/L	2	15	
Aroclor-1260	A	500.0	505.4	ug/L	1	15	
Aroclor-1016	B	500.0	494.8	ug/L	-1	15	
Aroclor-1260	B	500.0	495.9	ug/L	-1	15	

-

Analyst: TJW 03/07/23 **Reviewer:** LW 03/08/23

ENTHALPY CONTINUING CALIBRATION FOR 481683 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06			IDF:	1.0
Seqnum:	453114337004	File:	gc06_032023004	Time:	20-MAR-2023 10:14
Cal:	453094313002	Caldate:	06-MAR-2023		

Standards: S17896

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	529.7	ug/L	6	15	0.0000	
Aroclor-1260	A			500.0	529.9	ug/L	6	15	0.0000	
Decachlorobiphenyl (PCB)	A	1.1895	0.7264	40.00	24.43	ug/L	**-39**	15	0.0000	c-
TCMX (PCB)	A	0.9277	0.5046	40.00	21.76	ug/L	**-46**	15	0.0000	c-
Aroclor-1016	B			500.0	522.9	ug/L	5	15	0.0000	
Aroclor-1260	B			500.0	505.7	ug/L	1	15	0.0000	
Decachlorobiphenyl (PCB)	B	0.9623	0.5789	40.00	24.06	ug/L	**-40**	15	0.0000	c-
TCMX (PCB)	B	0.9605	0.5143	40.00	21.42	ug/L	**-46**	15	0.0000	c-

ISTD (ICAL gc06_030623022)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	5472970	6794542	24.15
1-bromo-2-nitrobenzene (PCB)	A	1354516	1772847	30.88

-=low bias c=CCV

Analyst: TRN 03/20/23 **Reviewer:** LW 03/22/23

Enthalpy Internal Standard Summary for Sequence 453114337

Date:	03/20/23	Reference:	gc06_030623022
Sequence:	SVOA-GC06 gc06_032023	Analyzed:	03/06/23 18:48

#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		ICAL STD	5472970	1354516
		LOWER LIMIT	2736485	677258
		UPPER LIMIT	10945940	2709032
004	CCV		6794542	1772847

Enthalpy Internal Standard Summary for Sequence 453114337

Date:	03/20/23	Reference:	gc06_032023004
Sequence:	SVOA-GC06 gc06_032023	Analyzed:	03/20/23 10:14

#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	6794542	1772847
		LOWER LIMIT	3397271	886424
		UPPER LIMIT	13589085	3545694
012	BLANK	QC1052911	6743519	1730165
013	BS	QC1052912	6868600	1769615
014	BSD	QC1052913	6915405	1765581
015	SAMPLE	481683-001	6634781	1707142
016	SAMPLE	481683-003	6383463	1635674
017	SAMPLE	481683-005	6734401	1728948
018	SAMPLE	481683-007	7370790	1904287
019	SAMPLE	481689-001	6766227	1746971
020	SAMPLE	481689-003	6394848	1664028
021	SAMPLE	481689-005	6625024	1716041
022	SAMPLE	481689-007	6911563	1788274
023	SAMPLE	481689-010	6305843	1635026
024	SAMPLE	481689-012	6313082	1633460
025	SAMPLE	481689-014	6651083	1714118
026	SAMPLE	481689-015	6553698	1688275
027	SAMPLE	481689-017	6631701	1711314
028	SAMPLE	481689-019	6624034	1712946
029	SAMPLE	481689-021	6790616	1752492
030	SAMPLE	481689-023	6097300	1597605
031	SAMPLE	481689-025	6407340	1664680
032	SAMPLE	481689-027	7053349	1828353
033	SAMPLE	481689-030	6516543	1676146
034	SAMPLE	481689-032	6782414	1744133

Enthalpy Internal Standard Summary for Sequence 453114337

Date:	03/20/23	Reference:	gc06_032023004
Sequence:	SVOA-GC06 gc06_032023	Analyzed:	03/20/23 10:14

#	Type	Sample ID	1BR2NITROBZPCB B RT	1BR2NITROBZPCB A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.47	4.24
		LOWER LIMIT	4.27	4.04
		UPPER LIMIT	4.67	4.44
012	BLANK	QC1052911	4.47	4.24
013	BS	QC1052912	4.47	4.24
014	BSD	QC1052913	4.47	4.24
015	SAMPLE	481683-001	4.47	4.24
016	SAMPLE	481683-003	4.47	4.24
017	SAMPLE	481683-005	4.47	4.24
018	SAMPLE	481683-007	4.47	4.24
019	SAMPLE	481689-001	4.47	4.24
020	SAMPLE	481689-003	4.47	4.24
021	SAMPLE	481689-005	4.47	4.24
022	SAMPLE	481689-007	4.47	4.24
023	SAMPLE	481689-010	4.47	4.24
024	SAMPLE	481689-012	4.47	4.24
025	SAMPLE	481689-014	4.47	4.24
026	SAMPLE	481689-015	4.47	4.24
027	SAMPLE	481689-017	4.47	4.24
028	SAMPLE	481689-019	4.47	4.24
029	SAMPLE	481689-021	4.47	4.24
030	SAMPLE	481689-023	4.47	4.24
031	SAMPLE	481689-025	4.47	4.24
032	SAMPLE	481689-027	4.47	4.24
033	SAMPLE	481689-030	4.47	4.24
034	SAMPLE	481689-032	4.47	4.24

Enthalpy Sequence Summary for Sequence 453094313

Instrument: SVOA-GC06 Begun: 03/06/23 11:17
Method: EPA 8081A, EPA 8082

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	gc06_030623002	PEM				03/06/23 11:17	1.0	1
004	gc06_030623004	CCV				03/06/23 11:53	1.0	2
007	gc06_030623007	CCV				03/06/23 13:10	1.0	2
009	gc06_030623009	ICAL				03/06/23 13:58	1.0	3
010	gc06_030623010	ICAL				03/06/23 14:16	1.0	4
011	gc06_030623011	ICAL				03/06/23 14:34	1.0	5
012	gc06_030623012	ICAL				03/06/23 14:52	1.0	6
013	gc06_030623013	ICAL				03/06/23 15:11	1.0	7
014	gc06_030623014	ICAL				03/06/23 15:29	1.0	8
015	gc06_030623015	ICAL				03/06/23 15:48	1.0	9
016	gc06_030623016	ICAL				03/06/23 16:06	1.0	10
018	gc06_030623018	ICV				03/06/23 16:43	1.0	11
020	gc06_030623020	ICAL				03/06/23 18:11	1.0	12
021	gc06_030623021	ICAL				03/06/23 18:30	1.0	13
022	gc06_030623022	ICAL				03/06/23 18:48	1.0	14
023	gc06_030623023	ICAL				03/06/23 19:06	1.0	15
024	gc06_030623024	ICAL				03/06/23 19:25	1.0	16
025	gc06_030623025	ICAL				03/06/23 19:43	1.0	17
026	gc06_030623026	ICAL				03/06/23 20:01	1.0	18
027	gc06_030623027	ICAL				03/06/23 20:20	1.0	19
028	gc06_030623028	ICAL				03/06/23 20:38	1.0	20
029	gc06_030623029	ICAL				03/06/23 20:56	1.0	21
031	gc06_030623031	ICV				03/06/23 21:33	1.0	22

TRN 03/06/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 2 through 18.

TJW 03/07/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 20 through 31.

Standards Used:
1=S17384 2=S17896 3=S18033 4=S18034 5=S18035 6=S18036 7=S18037 8=S18038 9=S18039 10=S18040 11=S18065 12=S17807 13=S17797 14=S17798 15=S17799 16=S17800 17=S17801 18=S17802 19=S17803 20=S17804 21=S17805 22=S17806

Enthalpy Sequence Summary for Sequence 453114337

Instrument: SVOA-GC06 Begun: 03/20/23 09:37

Method: EPA 8081A, EPA 8082

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	gc06_032023002	PEM				03/20/23 09:37	1.0	1
003	gc06_032023003	CCV				03/20/23 09:55	1.0	2
004	gc06_032023004	CCV				03/20/23 10:14	1.0	3
012	gc06_032023012	BLANK	QC1052911	Wipe	310026	03/20/23 12:38	1.0	4
013	gc06_032023013	BS	QC1052912	Wipe	310026	03/20/23 12:56	1.0	4
014	gc06_032023014	BSD	QC1052913	Wipe	310026	03/20/23 13:15	1.0	4
015	gc06_032023015	SAMPLE	481683-001	Wipe	310026	03/20/23 13:33	1.0	4
016	gc06_032023016	SAMPLE	481683-003	Wipe	310026	03/20/23 13:51	1.0	4
017	gc06_032023017	SAMPLE	481683-005	Wipe	310026	03/20/23 14:10	1.0	4
018	gc06_032023018	SAMPLE	481683-007	Wipe	310026	03/20/23 14:28	1.0	4
019	gc06_032023019	SAMPLE	481689-001	Wipe	310026	03/20/23 14:46	1.0	4
020	gc06_032023020	SAMPLE	481689-003	Wipe	310026	03/20/23 15:05	1.0	4
021	gc06_032023021	SAMPLE	481689-005	Wipe	310026	03/20/23 15:23	1.0	4
022	gc06_032023022	SAMPLE	481689-007	Wipe	310026	03/20/23 15:41	1.0	4
023	gc06_032023023	SAMPLE	481689-010	Wipe	310026	03/20/23 16:00	1.0	4
024	gc06_032023024	SAMPLE	481689-012	Wipe	310026	03/20/23 16:18	1.0	4
025	gc06_032023025	SAMPLE	481689-014	Wipe	310026	03/20/23 16:36	1.0	4
026	gc06_032023026	SAMPLE	481689-015	Wipe	310026	03/20/23 16:54	1.0	4
027	gc06_032023027	SAMPLE	481689-017	Wipe	310026	03/20/23 17:13	1.0	4
028	gc06_032023028	SAMPLE	481689-019	Wipe	310026	03/20/23 17:31	1.0	4
029	gc06_032023029	SAMPLE	481689-021	Wipe	310026	03/20/23 17:49	1.0	4
030	gc06_032023030	SAMPLE	481689-023	Wipe	310026	03/20/23 18:08	1.0	4
031	gc06_032023031	SAMPLE	481689-025	Wipe	310026	03/20/23 18:26	1.0	4
032	gc06_032023032	SAMPLE	481689-027	Wipe	310026	03/20/23 18:44	1.0	4
033	gc06_032023033	SAMPLE	481689-030	Wipe	310026	03/20/23 19:03	1.0	4
034	gc06_032023034	SAMPLE	481689-032	Wipe	310026	03/20/23 19:21	1.0	4

MES 03/21/23 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 2 through 34.

Standards Used:
1=S17384 2=S17980 3=S17896 4=S17544

SAMPLE PREPARATION SUMMARY

Batch #:	310026	Method:	3546	Analysis:	8080
Started By:	EPL	Prep Date:	18-MAR-2023 09:19	Finished By:	EPL

Sample	Matrix	Initial	Final	Prep DF	pH	Spike S18129	Spike S18117	Analysis
481683-001	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481683-003	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481683-005	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481683-007	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-001	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-003	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-005	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-007	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-010	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-012	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-014	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-015	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-017	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-019	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-021	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-023	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-025	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-027	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-030	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
481689-032	Wipe	1 dm2	10 mL	10.0		.5 mL		PCB-MICROWAVE
QC1052911 BLANK	Wipe	1 dm2	10 mL	10.0		.5 mL		8080
QC1052912 BS	Wipe	1 dm2	10 mL	10.0		.5 mL	.5 mL	8080
QC1052913 BSD	Wipe	1 dm2	10 mL	10.0		.5 mL	.5 mL	8080

Analyst: MES 03/21/23

Reviewer: LW 03/23/23

8081/8082/608.3 Prep Log

Prep Method: 3546 MICROWAVE Matrix: WIPE Date/Time: 3/18/23 9:19 Initials: EPL

Hotblock ID: N/A Therm Loc: N/A Therm ID/CF: ____/____

Hotblock Temp (Obs/Corr), °C: N/A / N/A

Balance ID: N/A Microdipenser ID: SYRINGE

Extraction Start Time*: 9:29 Extraction end time*: 10:21

* For hot block, microwave, shaker table

608.3 QC Batch#: ____

8081 QC Batch #: ____

8082 QC Batch #: 310026

Sample ID	Cont. ID	Sample Initial Amount Circle one: mL g	pH is 5-9?	Extraction Equipment ID (Sox, Sonic., Shaker)	Turbo Vap ID	Extract, Final Volume (mL)	Date/Time (if diff from above)	Comment
Blank		1dm²	N/A	MW02-1	TV09	10.0		
LCS				-2				
LCSD				-3				
481683-001	A			-4				
-003	A			-5				
-005	A			-6	↓			
-007	A			-7	TV08			
481689-001	A			-8				
-003	A			-9				
-005	A			-10				
-007	A			-11				
-010	A			-12	↓			
-012	A			-13	TV07			
-014	A			-14				
-015	A			-15				
-017	A			-16				
-019	A			-17				
-021	A			-18	↓			
-023	A			-19	TV08			
-025	A			-20				
-027	A			-21				
-030	A			-22				
-032	A	↓	↓	-23	↓	↓		

Methylene Chloride Lot: N/A

Exchange Solvent (Hexane) ID: S18031

Acetone-Hexane Mix ID: ____

Sodium Sulfate Lot: 213742

Baked Sand Lot: N/A

Surrogate ID: S18129 Volume: 500 µL

Pest LCS Spike ID: N/A Volume: N/A µL

PCB LCS Spike ID: S18117 Volume: 500 µL

Pest MS/MSD Spike ID: N/A Volume: N/A µL

PCB MS/MSD Spike ID: N/A Volume: N/A µL

REPORTING SUMMARY FOR 481683 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
481683-001	Aroclor-1016	SVOA-GC06	B	03/20/23 13:33
481683-001	Aroclor-1221	SVOA-GC06	B	03/20/23 13:33
481683-001	Aroclor-1232	SVOA-GC06	B	03/20/23 13:33
481683-001	Aroclor-1242	SVOA-GC06	B	03/20/23 13:33
481683-001	Aroclor-1248	SVOA-GC06	B	03/20/23 13:33
481683-001	Aroclor-1254	SVOA-GC06	B	03/20/23 13:33
481683-001	Aroclor-1260	SVOA-GC06	B	03/20/23 13:33
481683-001	Aroclor-1262	SVOA-GC06	B	03/20/23 13:33
481683-001	Aroclor-1268	SVOA-GC06	B	03/20/23 13:33
481683-001	TCMX (PCB)	SVOA-GC06	B	03/20/23 13:33
481683-001	Decachlorobiphenyl (PCB)	SVOA-GC06	B	03/20/23 13:33
481683-003	Aroclor-1016	SVOA-GC06	B	03/20/23 13:51
481683-003	Aroclor-1221	SVOA-GC06	B	03/20/23 13:51
481683-003	Aroclor-1232	SVOA-GC06	B	03/20/23 13:51
481683-003	Aroclor-1242	SVOA-GC06	B	03/20/23 13:51
481683-003	Aroclor-1248	SVOA-GC06	B	03/20/23 13:51
481683-003	Aroclor-1254	SVOA-GC06	B	03/20/23 13:51
481683-003	Aroclor-1260	SVOA-GC06	B	03/20/23 13:51
481683-003	Aroclor-1262	SVOA-GC06	B	03/20/23 13:51
481683-003	Aroclor-1268	SVOA-GC06	B	03/20/23 13:51
481683-003	TCMX (PCB)	SVOA-GC06	B	03/20/23 13:51
481683-003	Decachlorobiphenyl (PCB)	SVOA-GC06	B	03/20/23 13:51
481683-005	Aroclor-1016	SVOA-GC06	B	03/20/23 14:10
481683-005	Aroclor-1221	SVOA-GC06	B	03/20/23 14:10
481683-005	Aroclor-1232	SVOA-GC06	B	03/20/23 14:10
481683-005	Aroclor-1242	SVOA-GC06	B	03/20/23 14:10
481683-005	Aroclor-1248	SVOA-GC06	B	03/20/23 14:10
481683-005	Aroclor-1254	SVOA-GC06	B	03/20/23 14:10
481683-005	Aroclor-1260	SVOA-GC06	B	03/20/23 14:10
481683-005	Aroclor-1262	SVOA-GC06	B	03/20/23 14:10
481683-005	Aroclor-1268	SVOA-GC06	B	03/20/23 14:10
481683-005	TCMX (PCB)	SVOA-GC06	B	03/20/23 14:10
481683-005	Decachlorobiphenyl (PCB)	SVOA-GC06	B	03/20/23 14:10
481683-007	Aroclor-1016	SVOA-GC06	B	03/20/23 14:28
481683-007	Aroclor-1221	SVOA-GC06	B	03/20/23 14:28
481683-007	Aroclor-1232	SVOA-GC06	B	03/20/23 14:28
481683-007	Aroclor-1242	SVOA-GC06	B	03/20/23 14:28
481683-007	Aroclor-1248	SVOA-GC06	B	03/20/23 14:28
481683-007	Aroclor-1254	SVOA-GC06	B	03/20/23 14:28
481683-007	Aroclor-1260	SVOA-GC06	B	03/20/23 14:28
481683-007	Aroclor-1262	SVOA-GC06	B	03/20/23 14:28
481683-007	Aroclor-1268	SVOA-GC06	B	03/20/23 14:28
481683-007	TCMX (PCB)	SVOA-GC06	B	03/20/23 14:28
481683-007	Decachlorobiphenyl (PCB)	SVOA-GC06	B	03/20/23 14:28
QC1052911	Aroclor-1016	SVOA-GC06	B	03/20/23 12:38
QC1052911	Aroclor-1221	SVOA-GC06	B	03/20/23 12:38
QC1052911	Aroclor-1232	SVOA-GC06	B	03/20/23 12:38
QC1052911	Aroclor-1242	SVOA-GC06	B	03/20/23 12:38
QC1052911	Aroclor-1248	SVOA-GC06	B	03/20/23 12:38
QC1052911	Aroclor-1254	SVOA-GC06	B	03/20/23 12:38

REPORTING SUMMARY FOR 481683 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
QC1052911	Aroclor-1260	SVOA-GC06	B	03/20/23 12:38
QC1052911	Aroclor-1262	SVOA-GC06	B	03/20/23 12:38
QC1052911	Aroclor-1268	SVOA-GC06	B	03/20/23 12:38
QC1052911	TCMX (PCB)	SVOA-GC06	B	03/20/23 12:38
QC1052911	Decachlorobiphenyl (PCB)	SVOA-GC06	B	03/20/23 12:38
QC1052912	Aroclor-1016	SVOA-GC06	B	03/20/23 12:56
QC1052912	Aroclor-1260	SVOA-GC06	B	03/20/23 12:56
QC1052912	TCMX (PCB)	SVOA-GC06	B	03/20/23 12:56
QC1052912	Decachlorobiphenyl (PCB)	SVOA-GC06	B	03/20/23 12:56
QC1052913	Aroclor-1016	SVOA-GC06	B	03/20/23 13:15
QC1052913	Aroclor-1260	SVOA-GC06	B	03/20/23 13:15
QC1052913	TCMX (PCB)	SVOA-GC06	B	03/20/23 13:15
QC1052913	Decachlorobiphenyl (PCB)	SVOA-GC06	B	03/20/23 13:15

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	481683-001	Client ID:	ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-P-LA
Seqnum:	453114337015	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_032023015	Batch:	310026	Time:	20-MAR-2023 13:33
Cal:	453094313002	Caldate:	06-MAR-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	35.75	ND	0.70	65%	0.50		u
Aroclor-1016 Peak # 1	B	51.77	0.52	0.26	66%			
Aroclor-1016 Peak # 2	B	121.9	1.22	ND	223%			
Aroclor-1016 Peak # 3	B	0.5128	0.01	0.71	197%			
Aroclor-1016 Peak # 4	B	4.342	0.04	1.93	191%			
Aroclor-1016 Peak # 5	B	0.2596	0.00	0.68	198%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	25.94	ND	0.68	90%	0.50		u
Aroclor-1260 Peak # 1	B	68.17	0.68	1.61	81%			
Aroclor-1260 Peak # 2	B	26.40	0.26	0.04	146%			
Aroclor-1260 Peak # 3	B	13.12	0.13	0.03	127%			
Aroclor-1260 Peak # 4	B	9.270	0.09	1.48	176%			
Aroclor-1260 Peak # 5	B	12.74	0.13	0.24	62%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	36.02	0.5000	0.3602	72	19-121	c- u
Decachlorobiphenyl (PCB)	B	39.51	0.5000	0.3951	79	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_032023004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6794542	6634781	-2.35
1-bromo-2-nitrobenzene (PCB)	A	1772847	1707142	-3.71

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

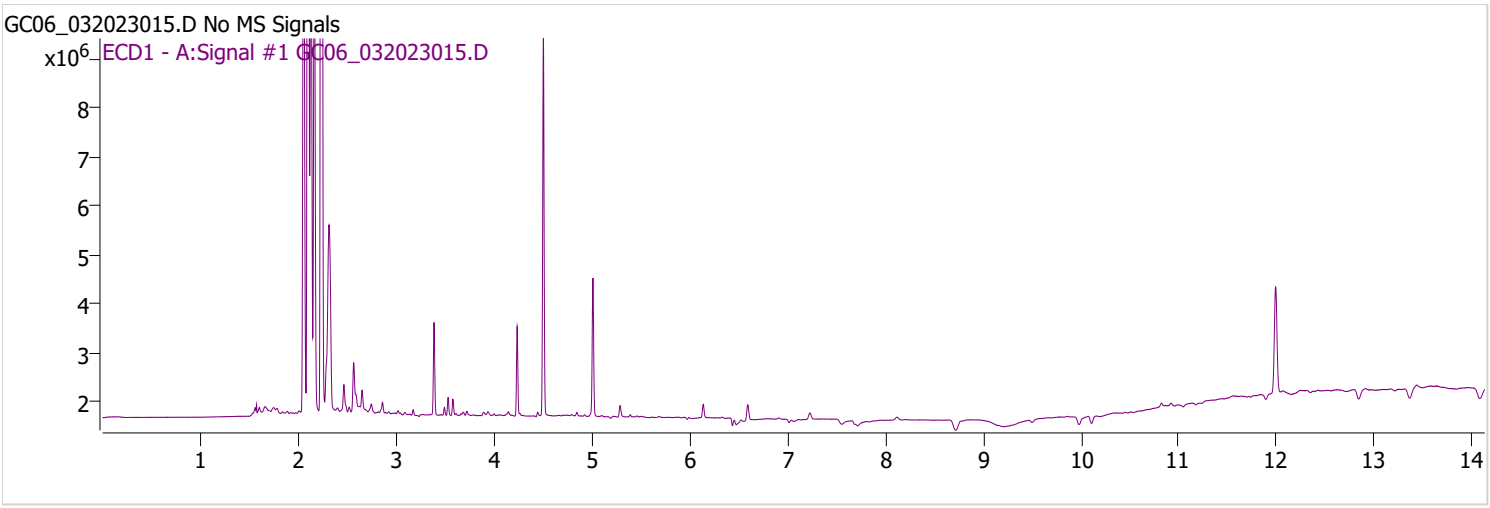
ISTD (CCV gc06_032023004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.47	4.47	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.24	4.24	0.00

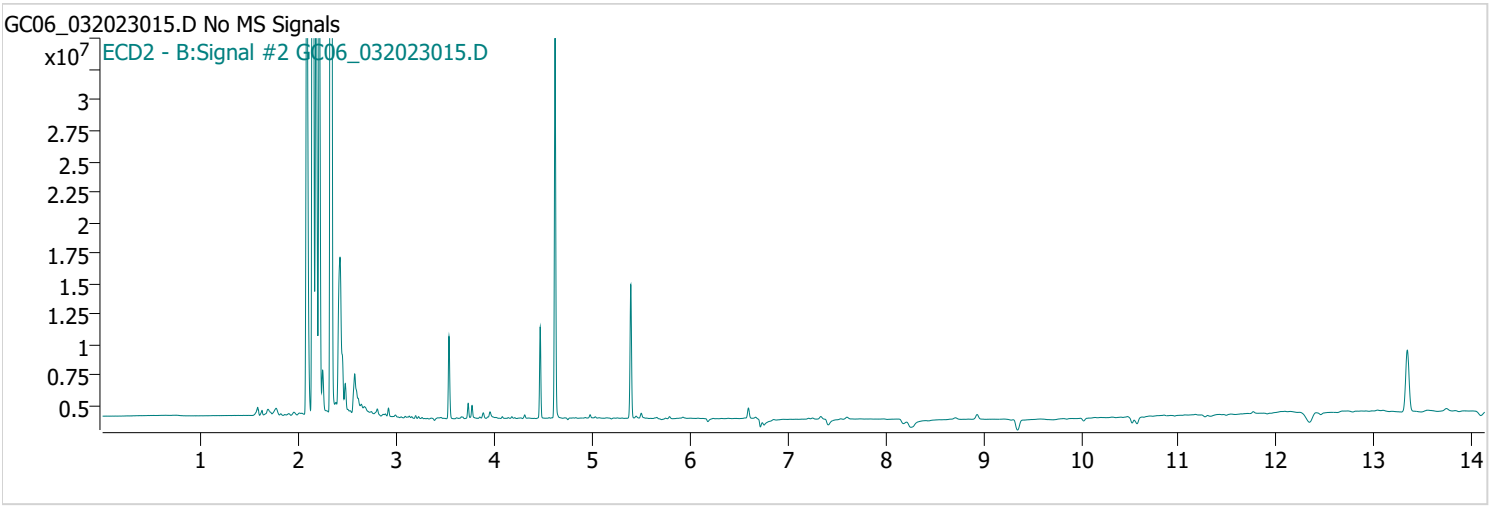
-=low bias c=CCV u=use

Analyst: TRN 03/20/23 **Reviewer:** LW 03/23/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_032023015.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/20/2023 1:33:30 PM
Sample Name	481683-001, 310026, 1	Instrument	SVOA-GC06
Vial	4	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_6.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	032023PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



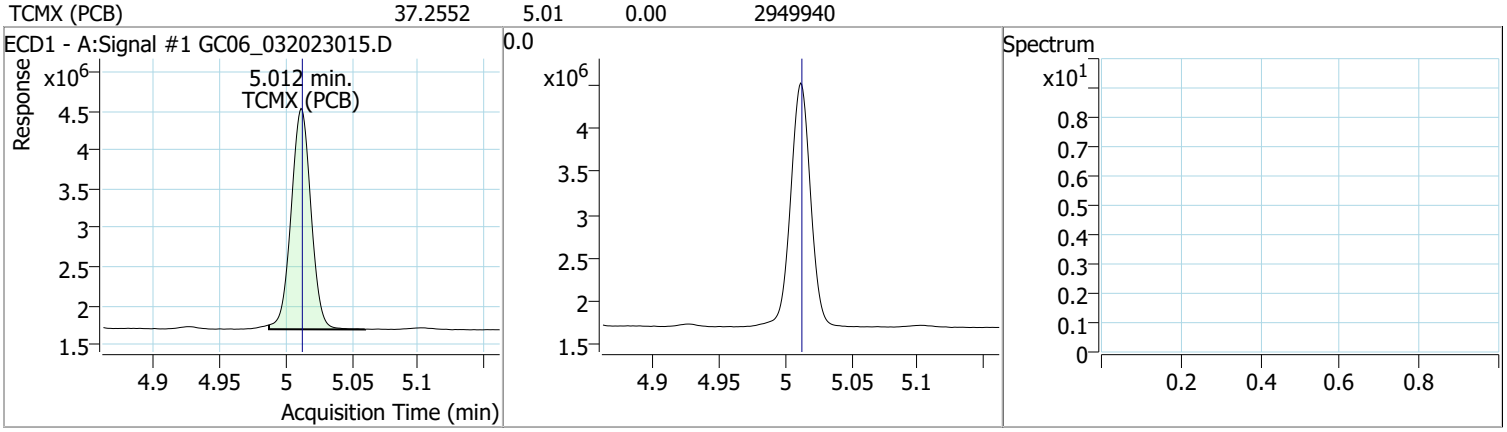


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.238	0.0	1707142.043	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.473	0.0	6634781.333	20.0000	ng/ml		0.002
System Monitoring Compounds							
S TCMX (PCB)	5.012	0.0	2949939.743	37.2552	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 186.28%		*	
S TCMX (PCB) #2	5.399	0.0	11476591.795	36.0179	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 180.09%		*	
S Decachlorobiphenyl (PCB)	11.989	0.0	4559831.495	44.9111	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 224.56%		*	
S Decachlorobiphenyl (PCB) #2	13.335	0.0	12611200.201	39.5068	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 197.53%		*	
Target Compounds							QValue

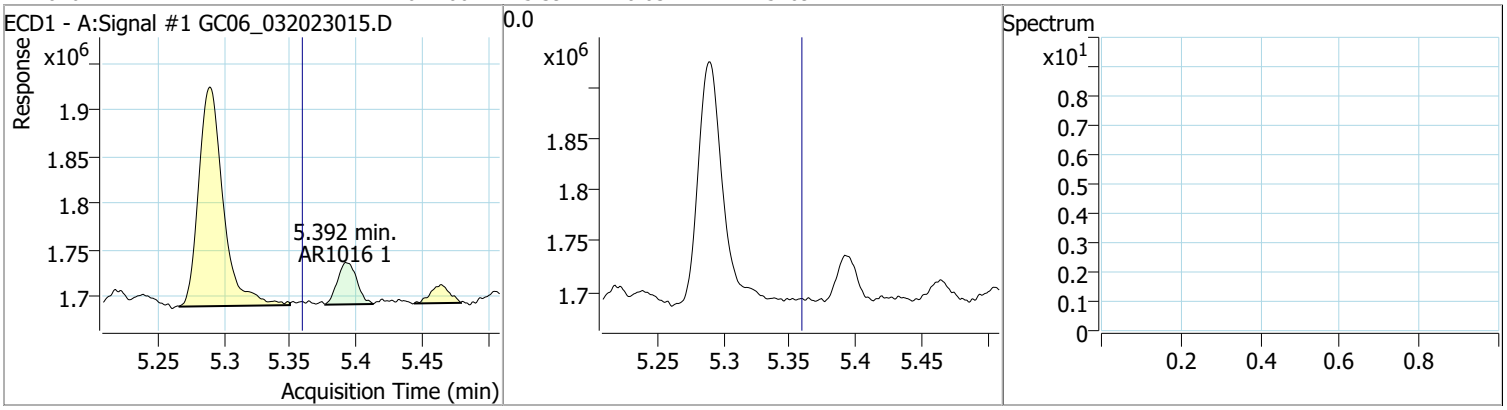
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.392	0.0	45708.823	26.1700	ng/ml	100
T AR1016 2	5.688	0.0	44947.928	0.0000	ng/ml	100
T AR1016 1 #2	5.933	0.0	327082.004	51.7695	ng/ml	100
T AR1016 3	6.139	0.0	385047.154	70.5452	ng/ml	100
T AR1016 4	6.335	0.0	657098.795	192.6166	ng/ml	100
T AR1016 2 #2	6.393	0.0	1704194.529	121.8589	ng/ml	100
T AR1016 5	6.524	0.0	132123.484	68.0234	ng/ml	100
T AR1016 3 #2	6.861	0.0	8753.170	0.5129	ng/ml	100
T AR1016 4 #2	7.033	0.0	54741.469	4.3425	ng/ml	100
T AR1016 5 #2	7.779	0.0	2660.412	0.2596	ng/ml	100
T AR1260 1	8.534	0.0	969963.258	161.0186	ng/ml	100
T AR1260 2	9.019	0.0	32592.163	4.1469	ng/ml	100
T AR1260 3	9.473	0.0	25330.874	2.9507	ng/ml	100
T AR1260 1 #2	9.995	0.0	1200824.778	68.1689	ng/ml	100
T AR1260 4	10.075	0.0	749661.325	148.4453	ng/ml	100
T AR1260 2 #2	10.208	0.0	567283.791	26.3979	ng/ml	100
T AR1260 3 #2	10.543	0.0	373684.737	13.1170	ng/ml	100
T AR1260 5	10.822	0.0	129961.999	24.2281	ng/ml	100
T AR1260 4 #2	11.167	0.0	154695.770	9.2700	ng/ml	100
T AR1260 5 #2	11.761	0.0	325313.357	12.7353	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

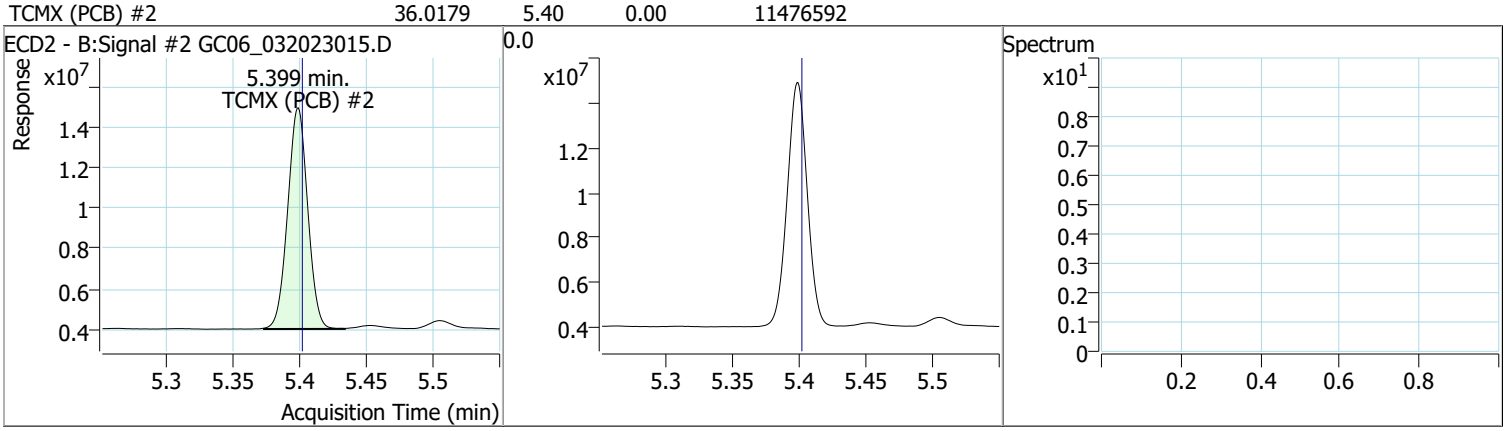
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	37.2552	5.01	0.00	2949940				



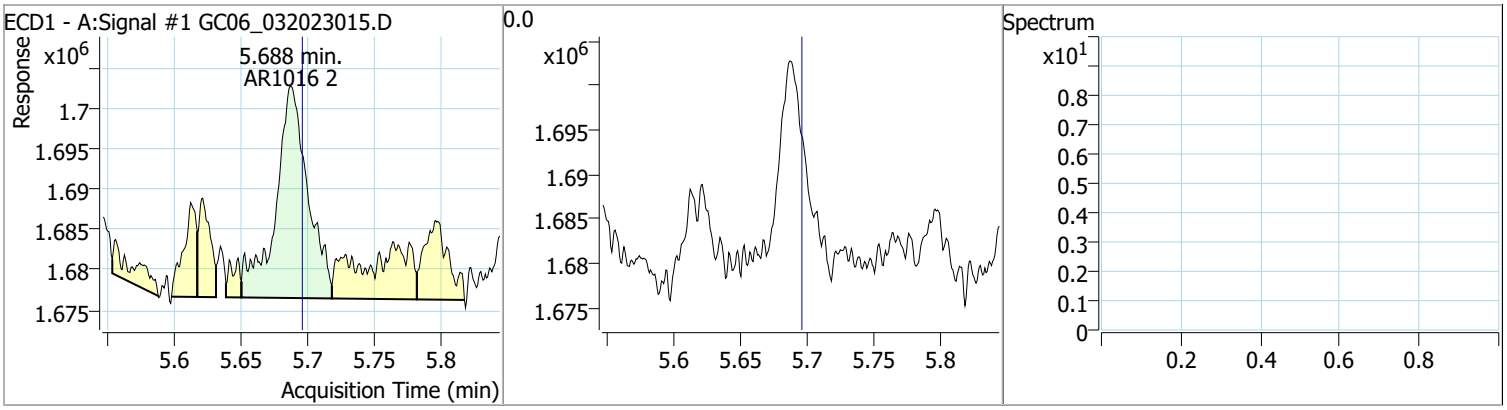
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	26.1700	5.39	0.03	45709				



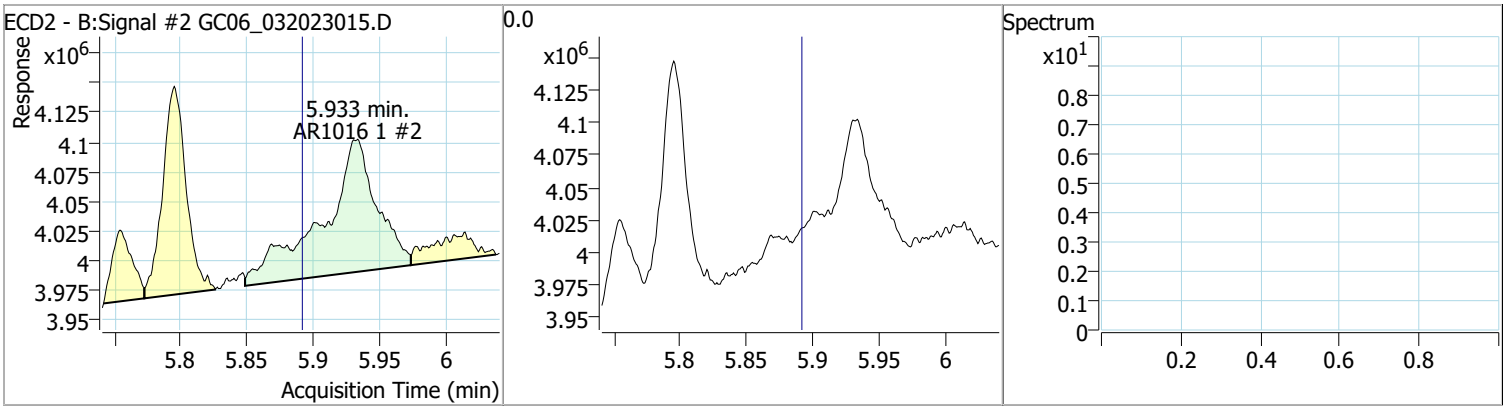
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	36.0179	5.40	0.00	11476592				



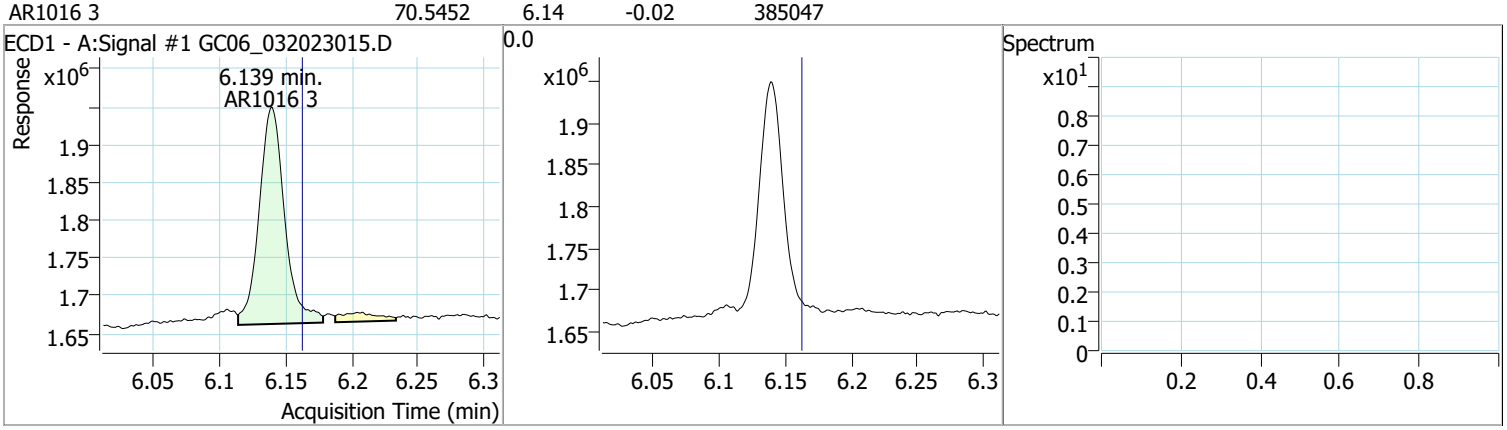
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.69	-0.01	44948				



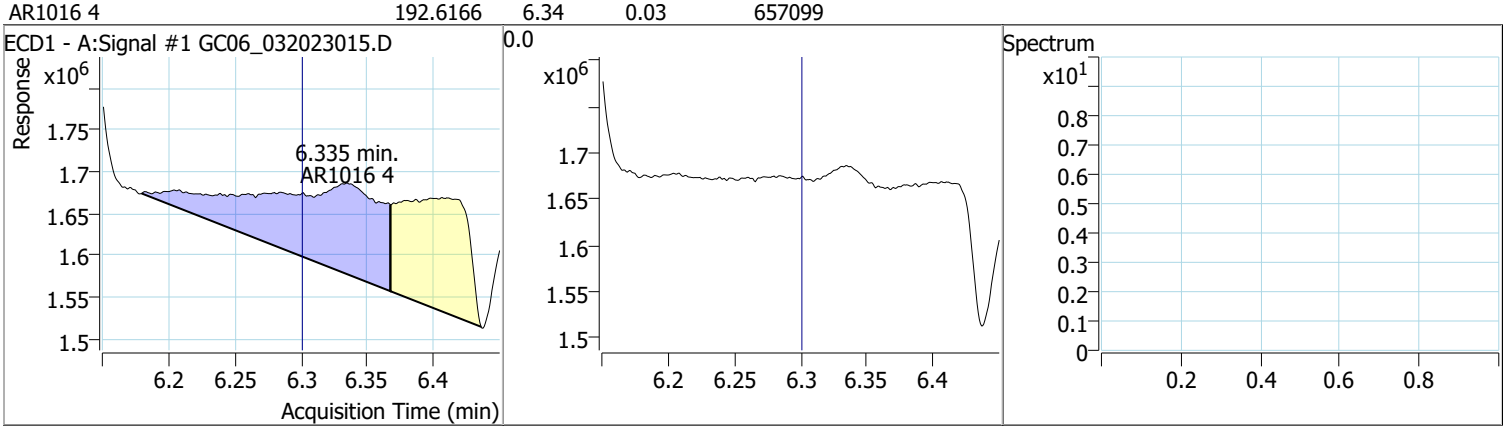
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	51.7695	5.93	0.04	327082				



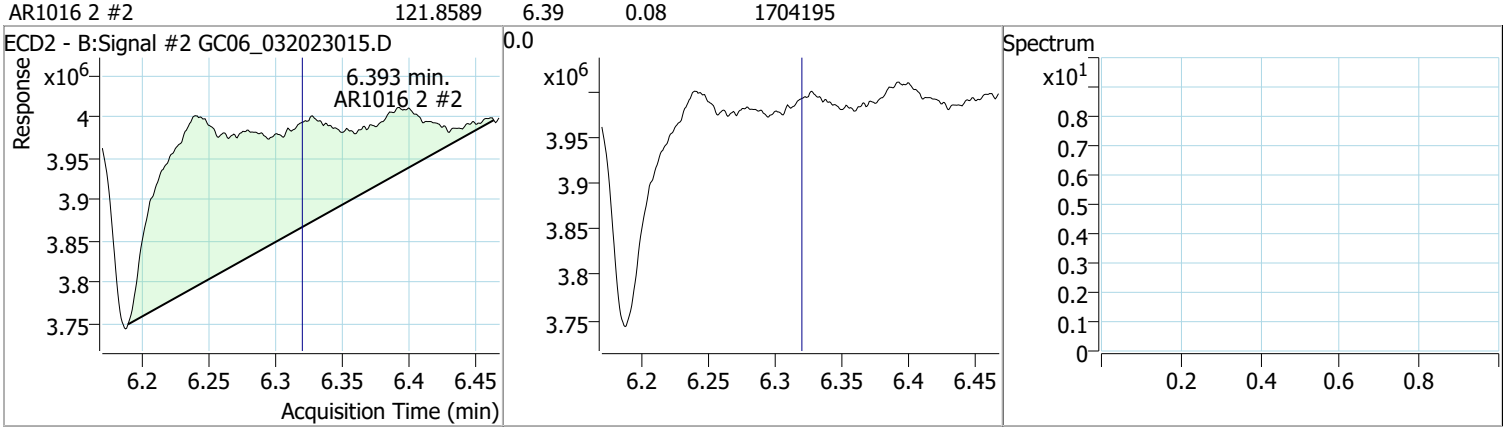
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	70.5452	6.14	-0.02	385047				



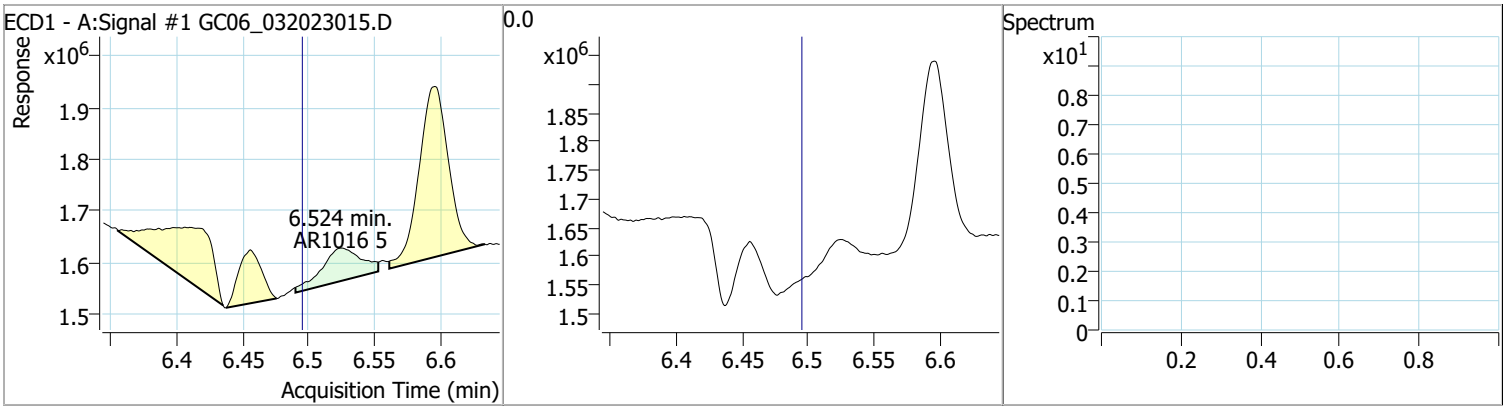
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	192.6166	6.34	0.03	657099				



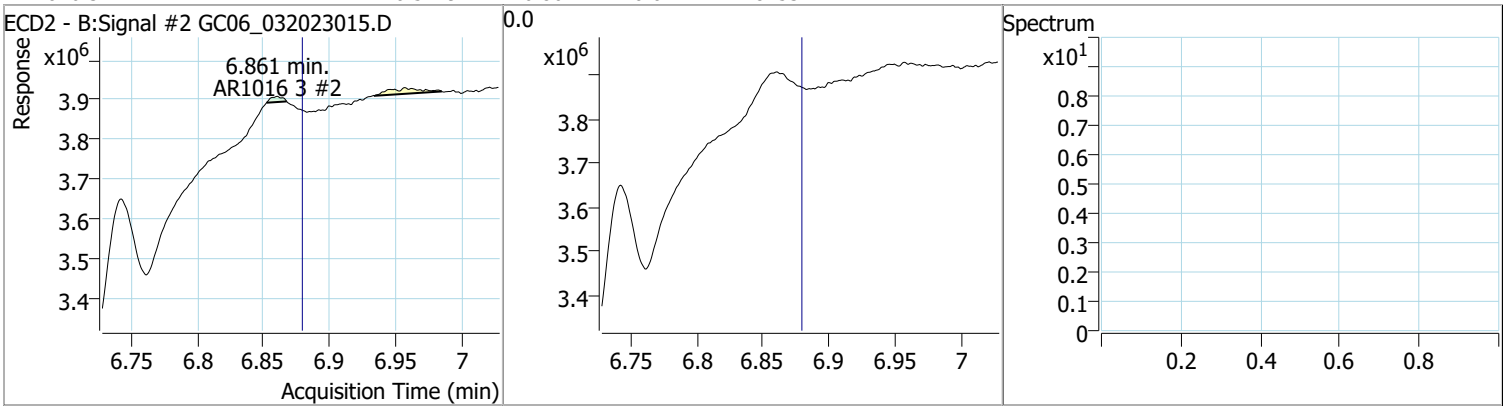
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	121.8589	6.39	0.08	1704195				



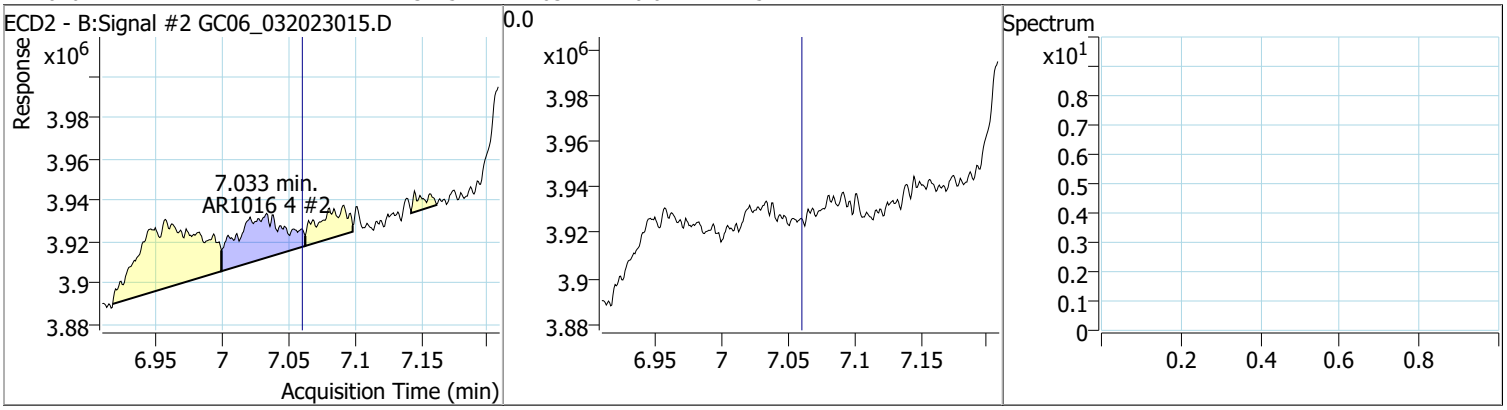
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	68.0234	6.52	0.03	132123				



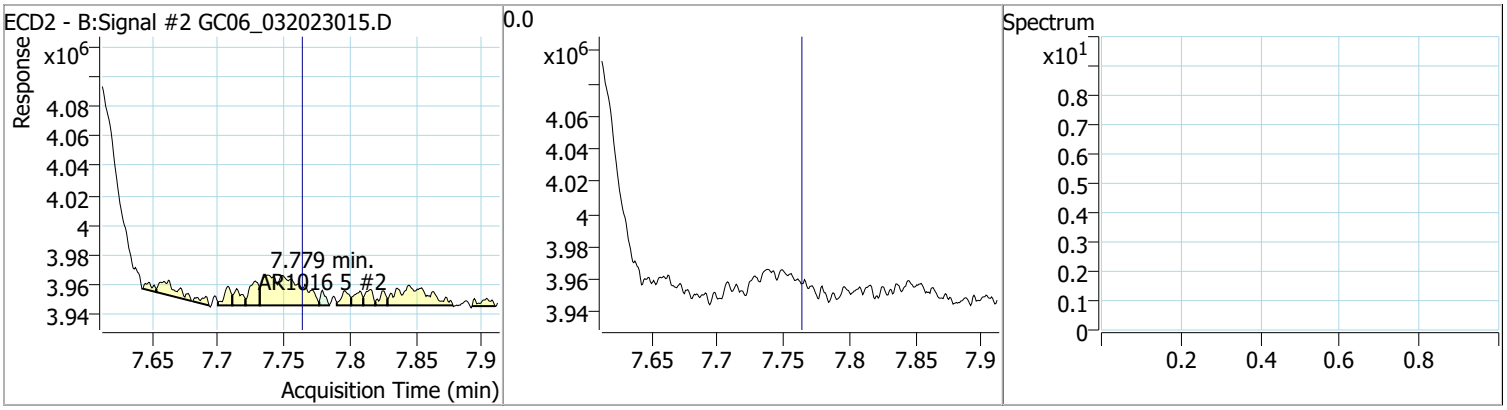
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	0.5129	6.86	-0.02	8753				



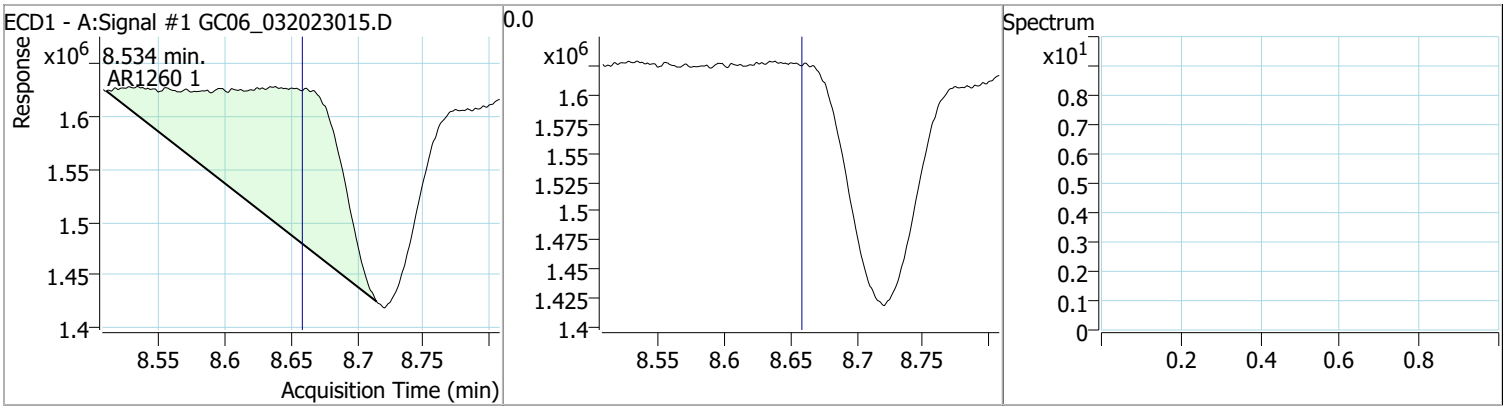
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	4.3425	7.03	-0.02	54741				



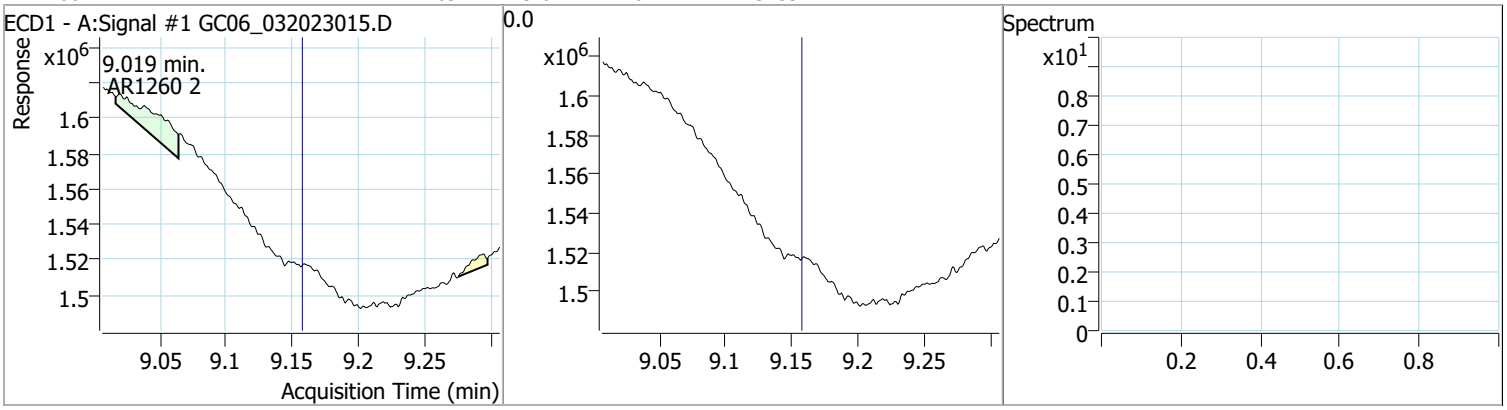
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	0.2596	7.78	0.02	2660				



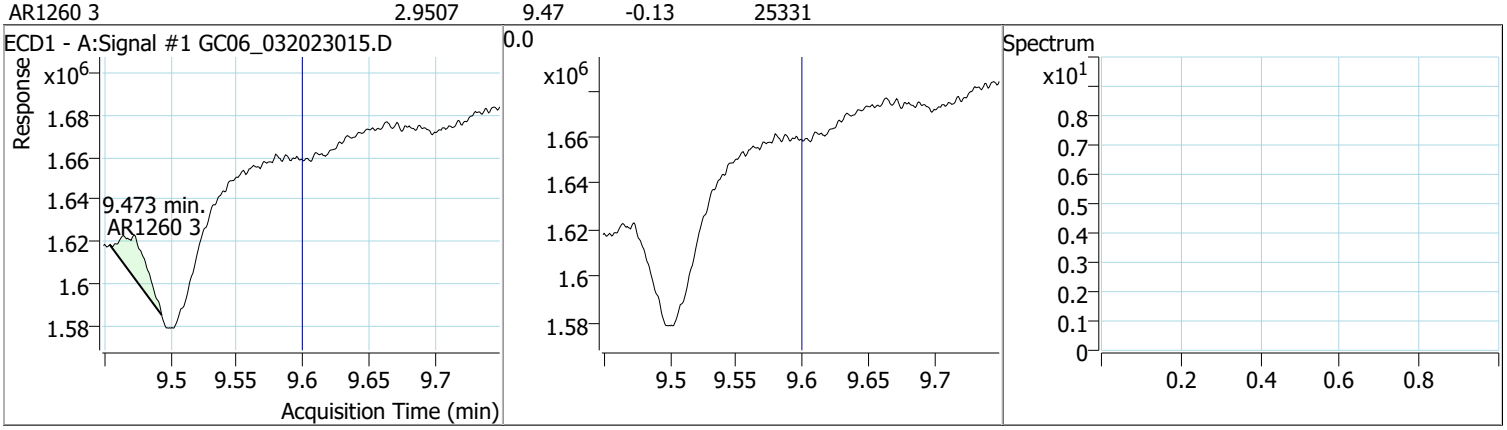
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	161.0186	8.53	-0.12	969963				



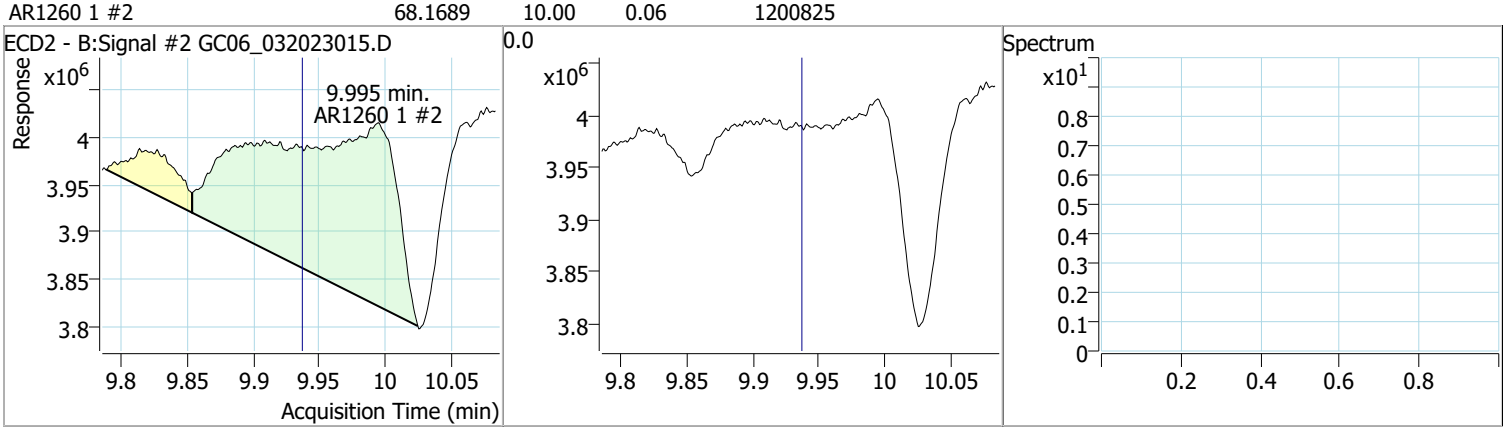
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	4.1469	9.02	-0.14	32592				



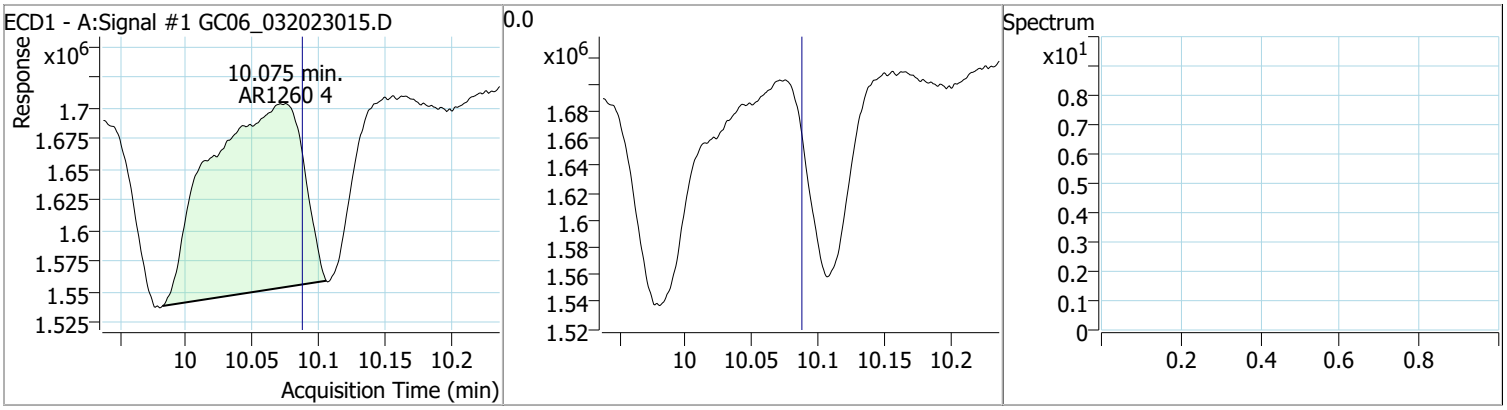
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	2.9507	9.47	-0.13	25331				



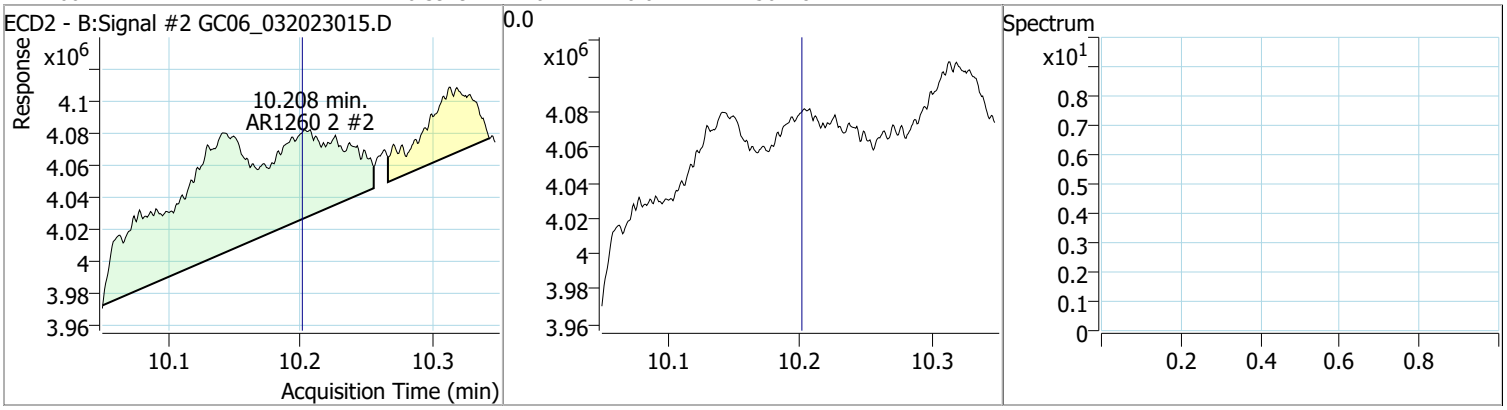
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	68.1689	10.00	0.06	1200825				



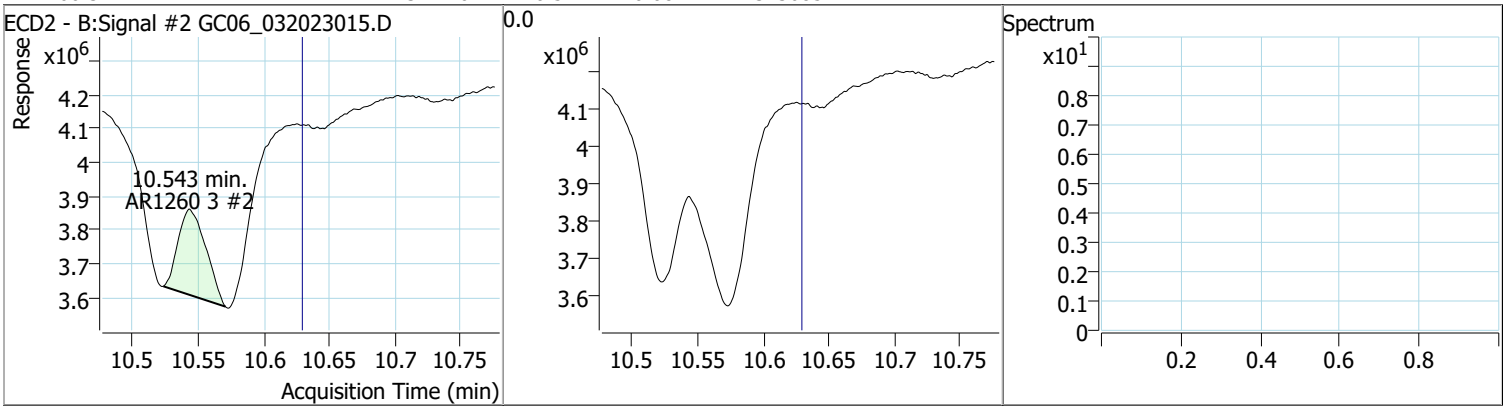
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	148.4453	10.08	-0.01	749661				



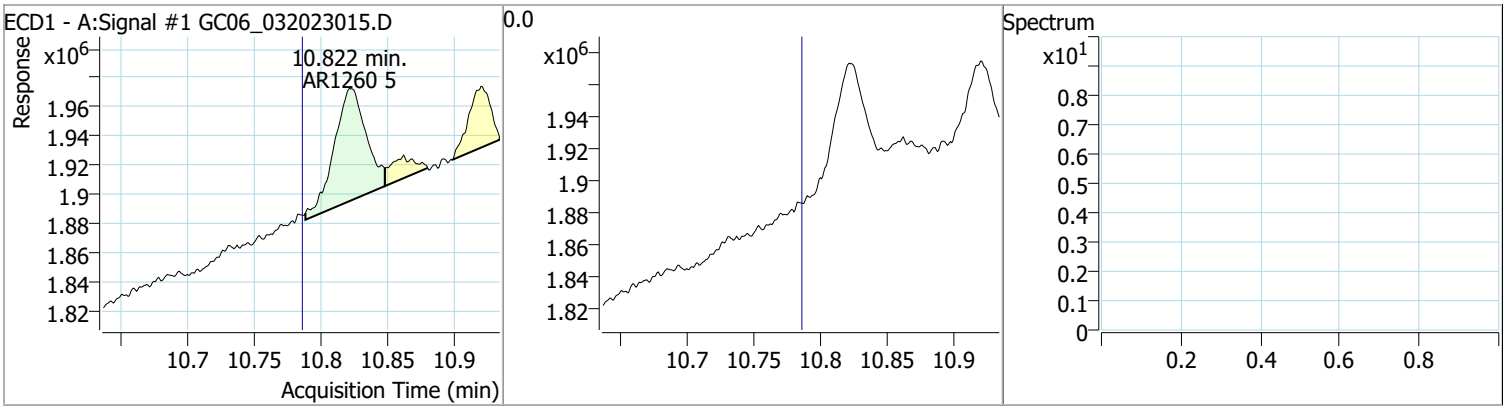
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	26.3979	10.21	0.01	567284				



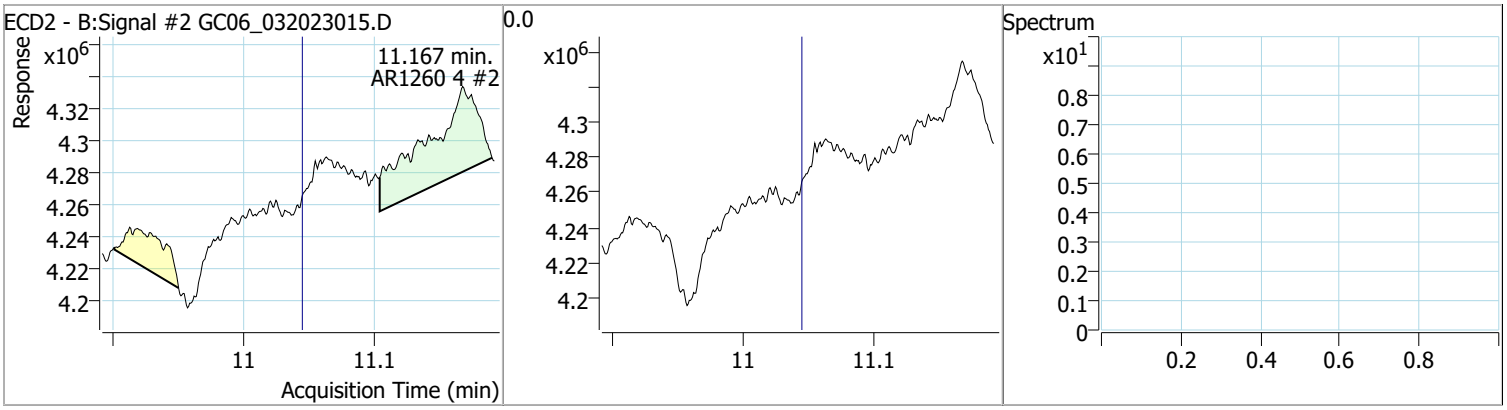
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	13.1170	10.54	-0.08	373685				



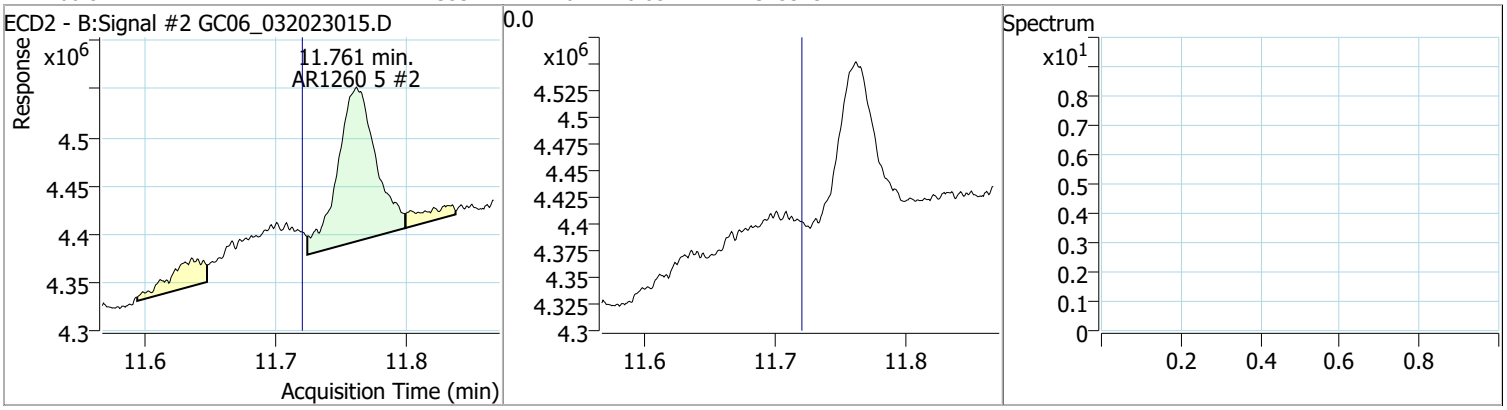
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	24.2281	10.82	0.04	129962				



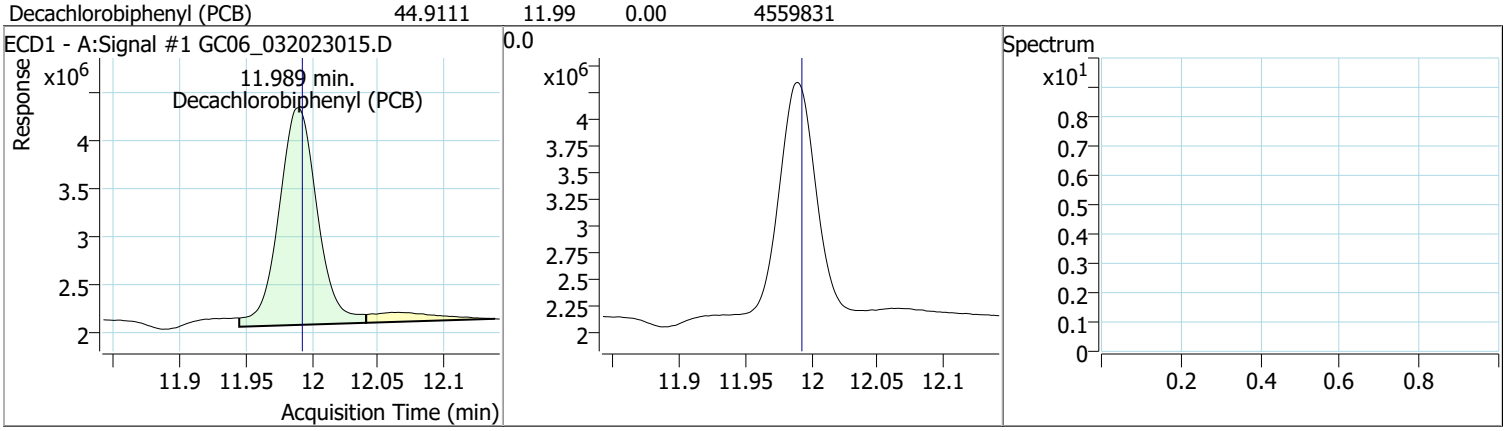
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	9.2700	11.17	0.13	154696				



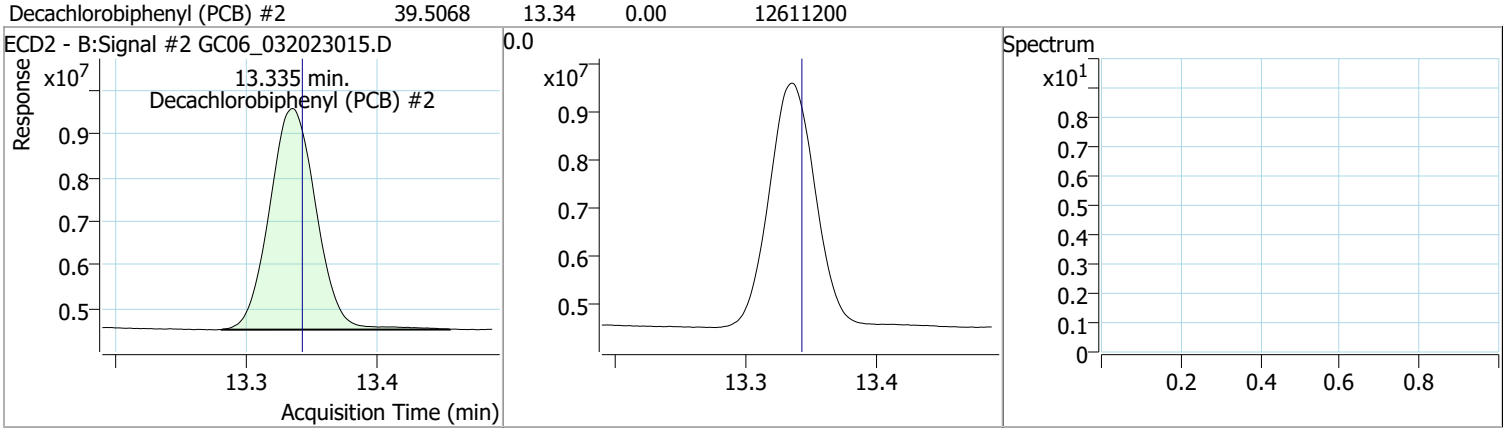
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	12.7353	11.76	0.05	325313				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	44.9111	11.99	0.00	4559831				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	39.5068	13.34	0.00	12611200				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	481683-003	Client ID:	ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-P-LA
Seqnum:	453114337016	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_032023016	Batch:	310026	Time:	20-MAR-2023 13:51
Cal:	453094313002	Caldate:	06-MAR-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	53.79	~~0.54~~ ~~FP~~	0.99	59%	0.50		x u
Aroclor-1016 Peak # 1	B	30.84	0.31	0.35	13%			
Aroclor-1016 Peak # 2	B	133.5	1.33	ND	221%			
Aroclor-1016 Peak # 3	B	99.03	0.99	0.69	35%			
Aroclor-1016 Peak # 4	B	2.701	0.03	3.38	197%			
Aroclor-1016 Peak # 5	B	2.906	0.03	0.59	181%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	28.55	ND	0.86	100%	0.50		u
Aroclor-1260 Peak # 1	B	71.54	0.72	1.60	77%			
Aroclor-1260 Peak # 2	B	24.24	0.24	0.72	99%			
Aroclor-1260 Peak # 3	B	13.97	0.14	0.04	107%			
Aroclor-1260 Peak # 4	B	4.933	0.05	1.56	188%			
Aroclor-1260 Peak # 5	B	28.08	0.28	0.37	28%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	37.57	0.5000	0.3757	75	19-121	c- u
Decachlorobiphenyl (PCB)	B	41.14	0.5000	0.4114	82	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_032023004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6794542	6383463	-6.05
1-bromo-2-nitrobenzene (PCB)	A	1772847	1635674	-7.74

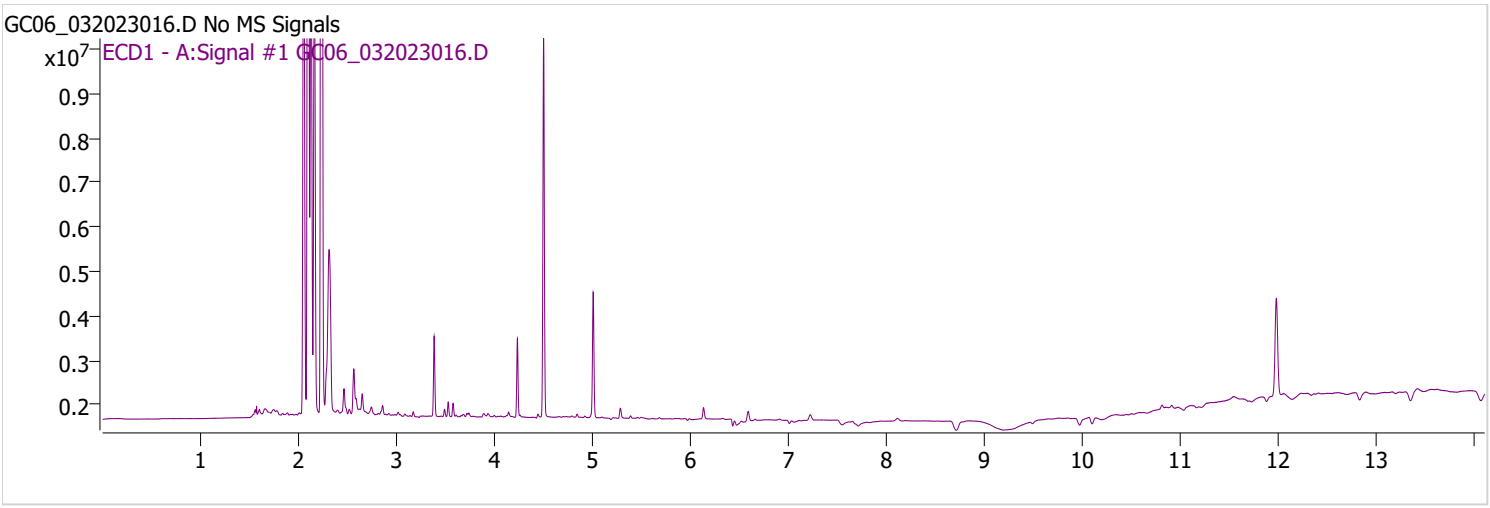
NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

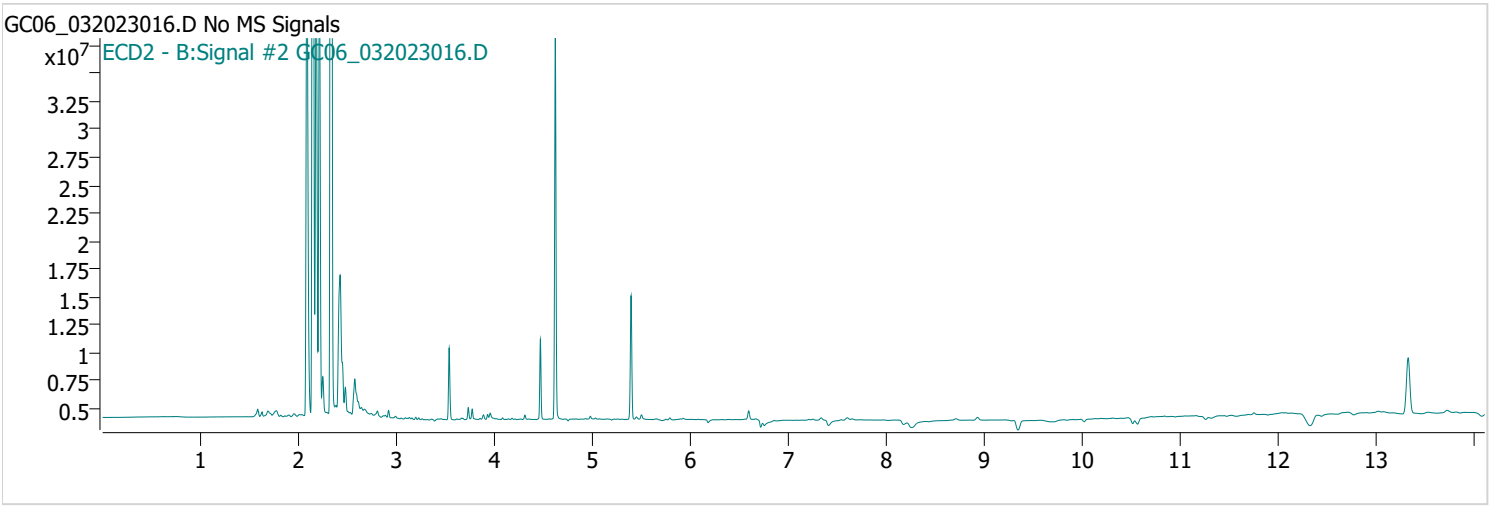
ISTD (CCV gc06_032023004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.47	4.47	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.24	4.24	0.00

Analyst: TRN 03/20/23 **Reviewer:** LW 03/23/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_032023016.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/20/2023 1:51:48 PM
Sample Name	481683-003, 310026, 1	Instrument	SVOA-GC06
Vial	5	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_6.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	032023PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



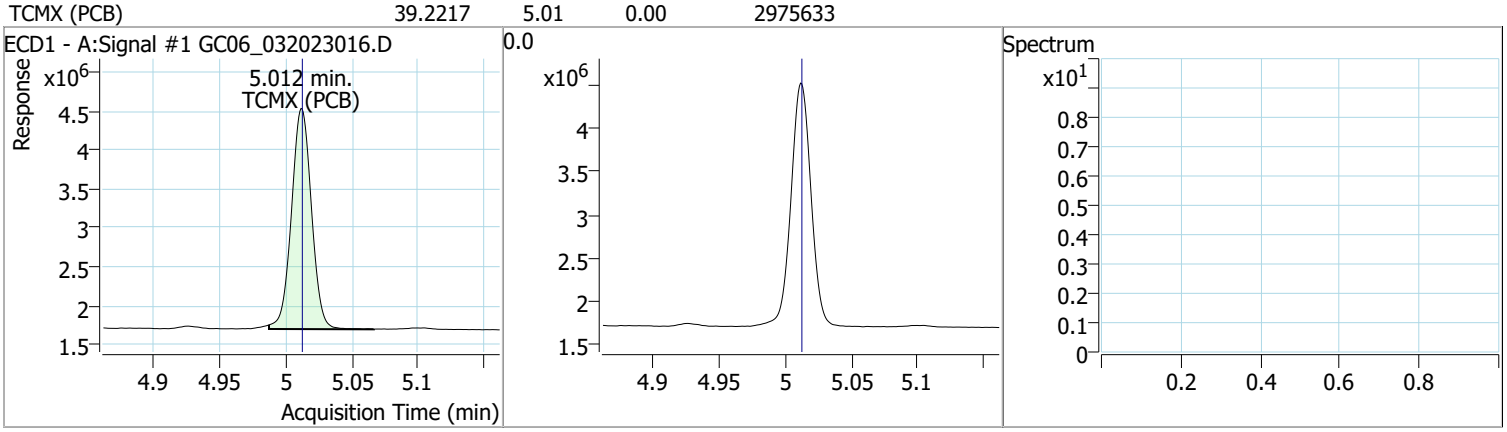


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.238	0.0	1635673.548	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.473	0.0	6383462.893	20.0000	ng/ml		0.001
System Monitoring Compounds							
S TCMX (PCB)	5.012	0.0	2975632.748	39.2217	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 196.11%		*	
S TCMX (PCB) #2	5.399	0.0	11516750.909	37.5670	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 187.83%		*	
S Decachlorobiphenyl (PCB)	11.990	0.0	4688369.201	48.1948	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 240.97%		*	
S Decachlorobiphenyl (PCB) #2	13.337	0.0	12634123.997	41.1368	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 205.68%		*	
Target Compounds							QValue

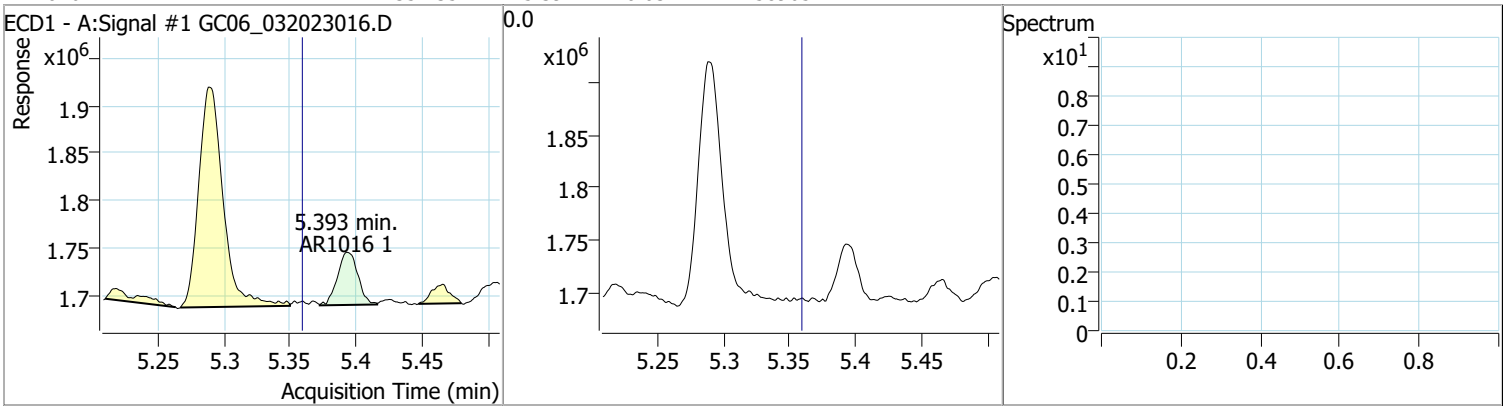
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.393	0.0	58965.468	35.2351	ng/ml	100
T AR1016 2	5.687	0.0	43284.460	0.0000	ng/ml	100
T AR1016 1 #2	5.902	0.0	187468.813	30.8402	ng/ml	100
T AR1016 3	6.139	0.0	363809.586	69.3462	ng/ml	100
T AR1016 4	6.335	0.0	1104604.695	337.9426	ng/ml	100
T AR1016 2 #2	6.393	0.0	1795985.473	133.4784	ng/ml	100
T AR1016 5	6.524	0.0	110138.406	59.1820	ng/ml	100
T AR1016 3 #2	6.958	0.0	1626223.915	99.0326	ng/ml	100
T AR1016 4 #2	7.083	0.0	32753.726	2.7005	ng/ml	100
T AR1016 5 #2	7.751	0.0	28656.729	2.9061	ng/ml	100
T AR1260 1	8.656	0.0	926353.516	160.4692	ng/ml	100
T AR1260 2	9.018	0.0	538905.906	71.5643	ng/ml	100
T AR1260 3	9.475	0.0	34987.749	4.2537	ng/ml	100
T AR1260 1 #2	9.992	0.0	1212424.668	71.5372	ng/ml	100
T AR1260 4	10.077	0.0	755859.672	156.2124	ng/ml	100
T AR1260 2 #2	10.204	0.0	501191.337	24.2406	ng/ml	100
T AR1260 3 #2	10.543	0.0	382953.385	13.9716	ng/ml	100
T AR1260 5	10.823	0.0	191553.990	37.2707	ng/ml	100
T AR1260 4 #2	10.918	0.0	79201.447	4.9329	ng/ml	100
T AR1260 5 #2	11.759	0.0	690040.615	28.0770	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

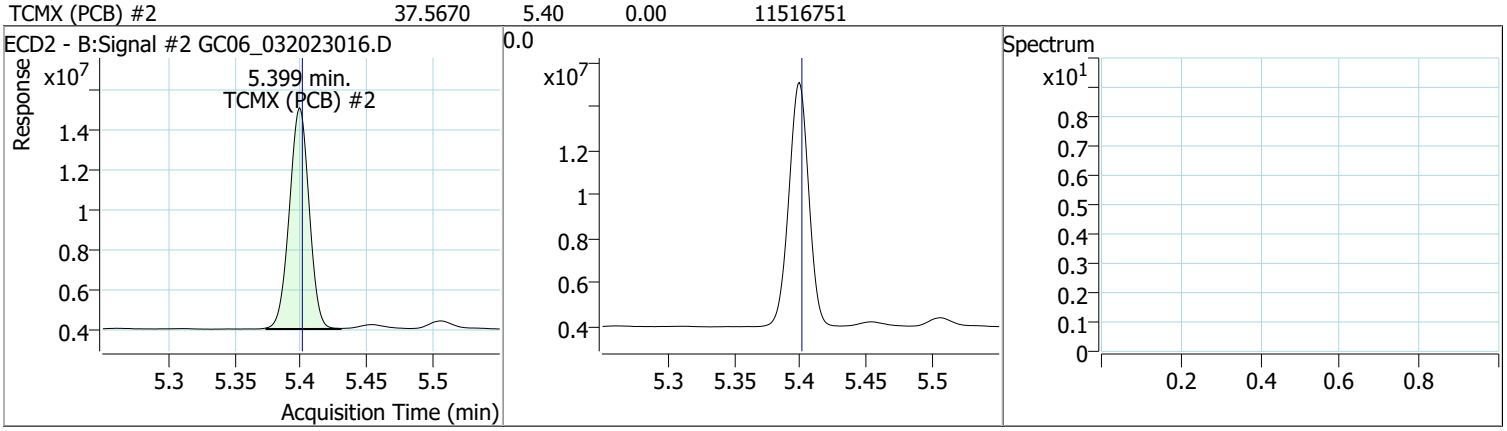
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	39.2217	5.01	0.00	2975633				



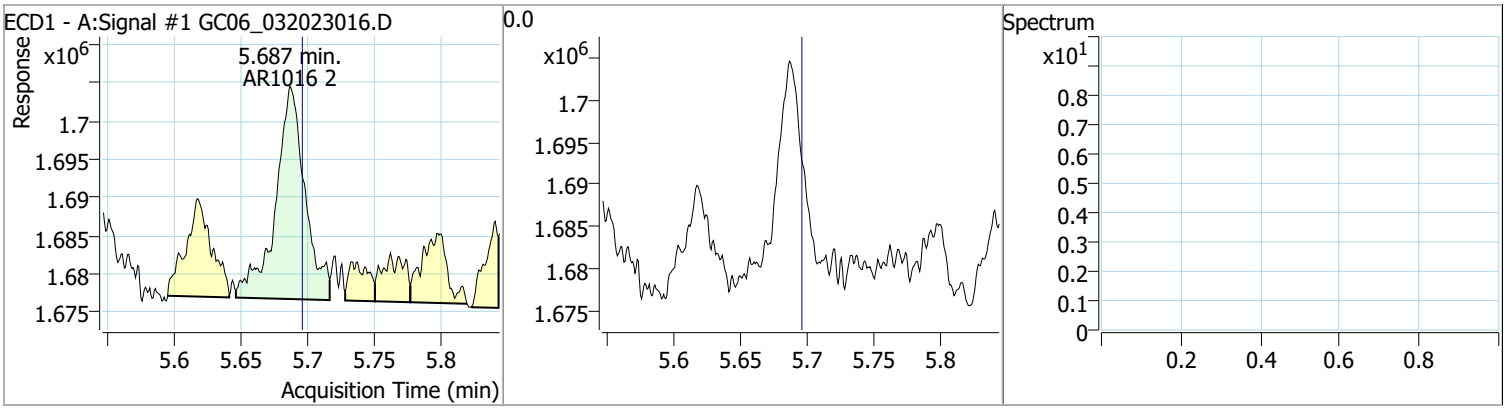
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	35.2351	5.39	0.03	58965				



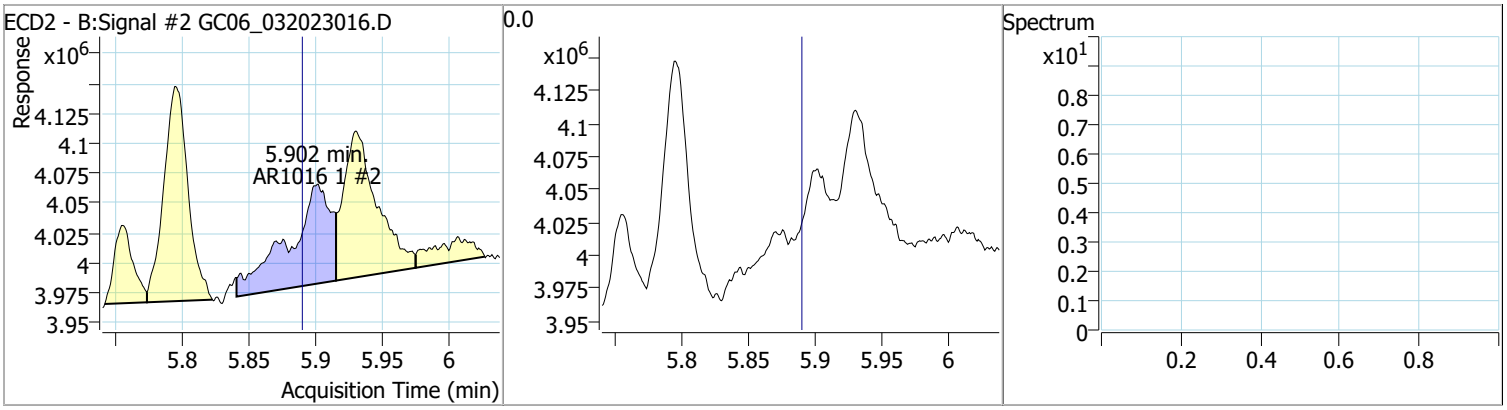
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	37.5670	5.40	0.00	11516751				



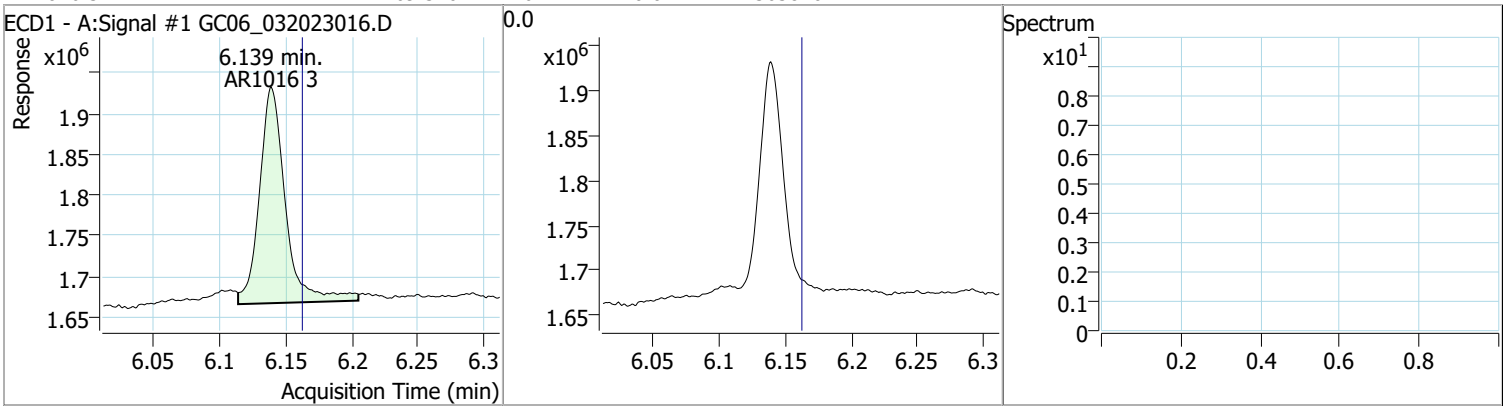
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.69	-0.01	43284				



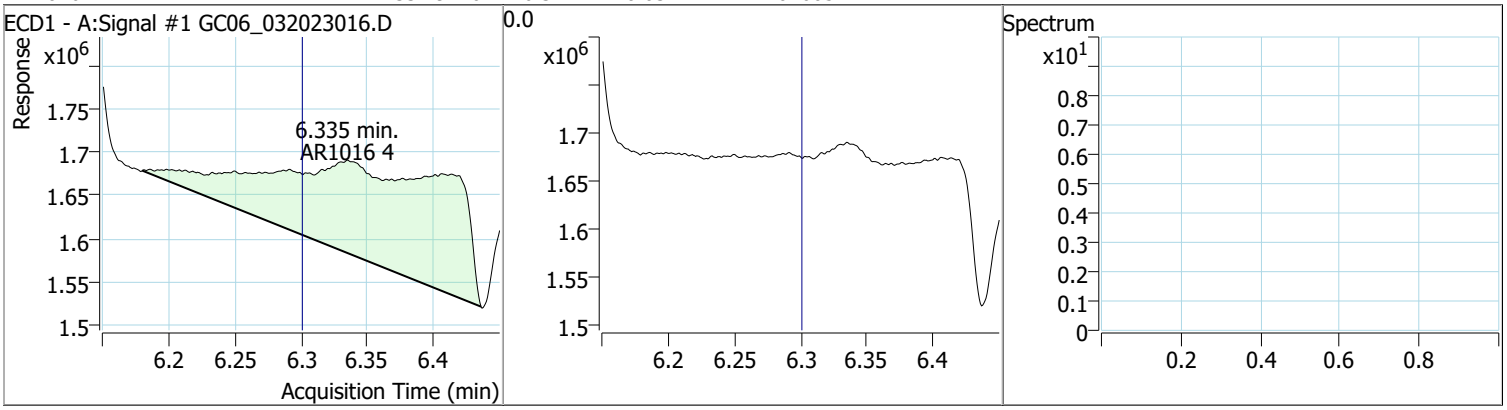
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	30.8402	5.90	0.01	187469				



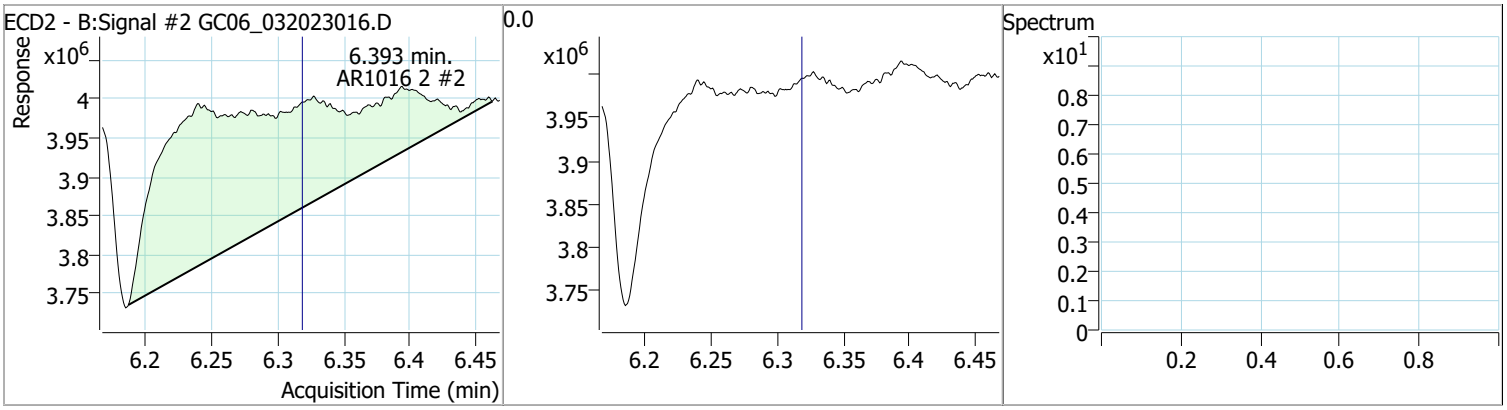
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	69.3462	6.14	-0.02	363810				



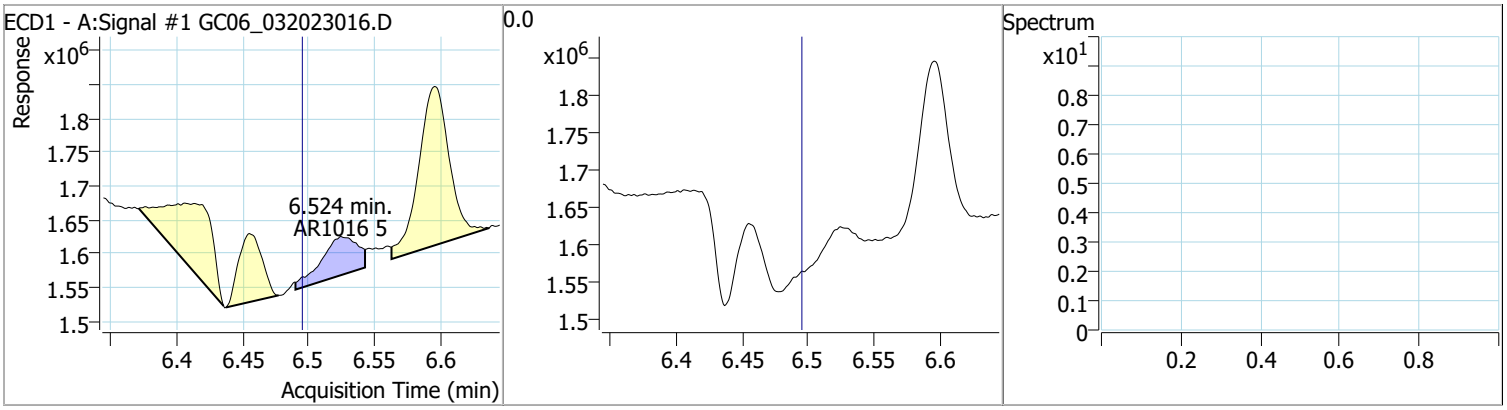
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	337.9426	6.34	0.03	1104605				



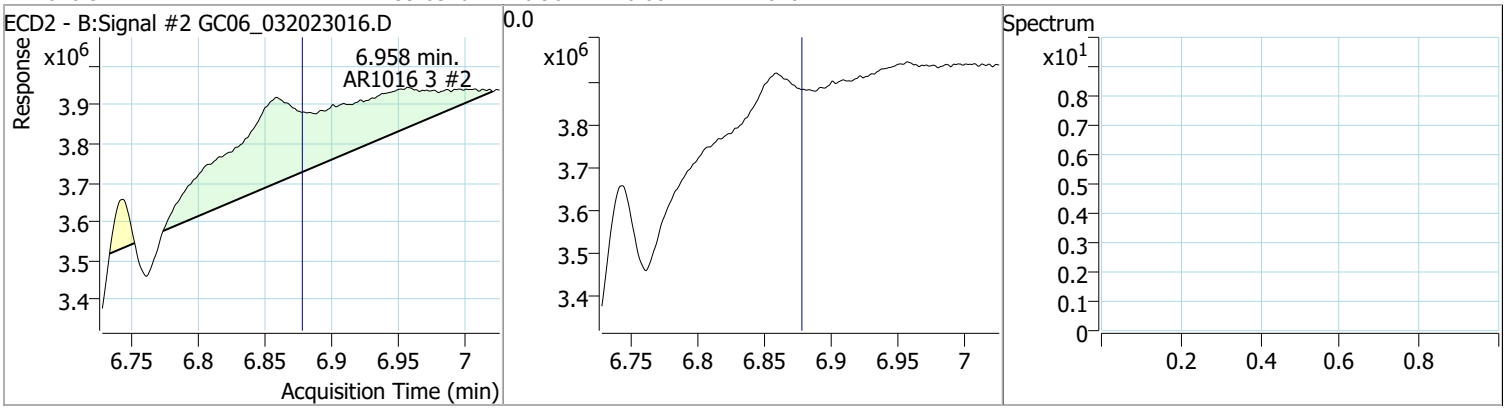
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	133.4784	6.39	0.08	1795985				



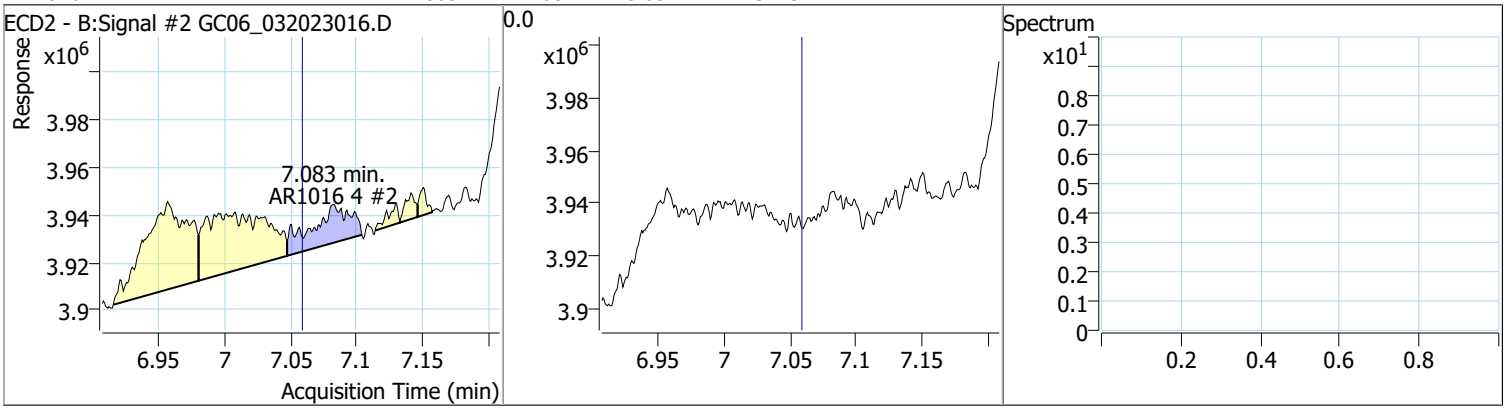
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	59.1820	6.52	0.03	110138				



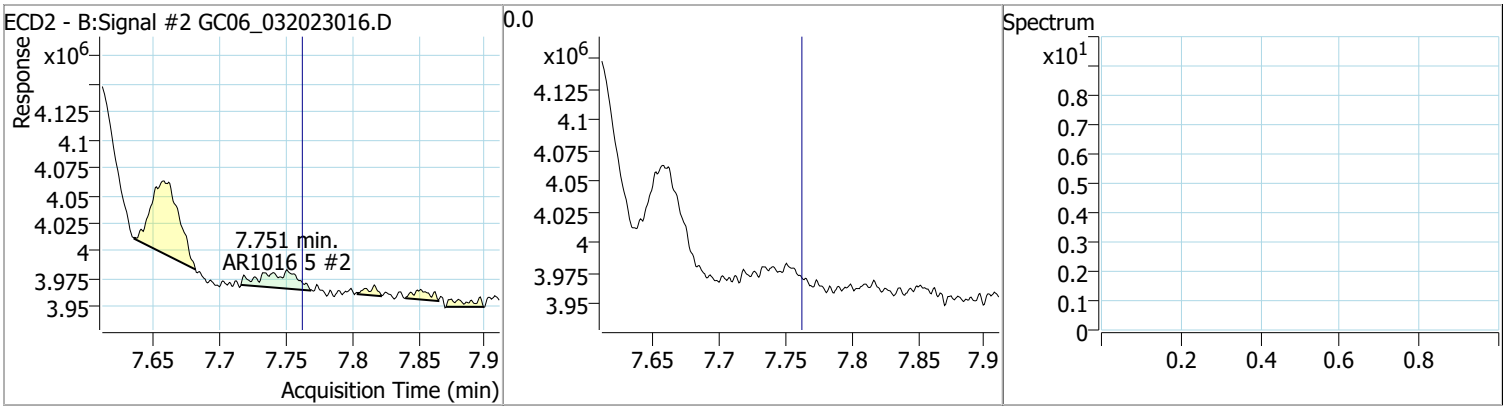
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	99.0326	6.96	0.08	1626224				



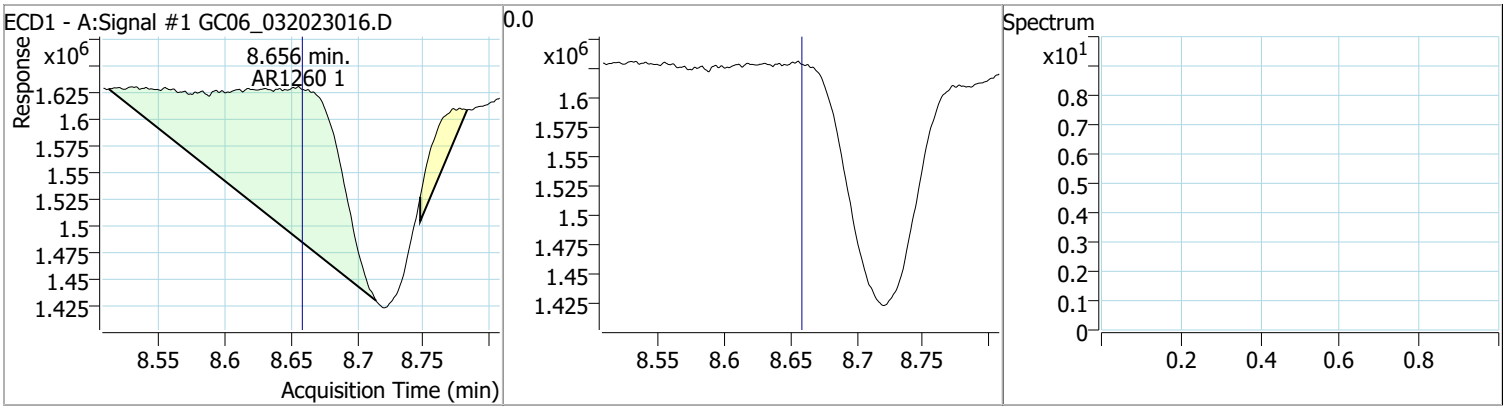
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AR1016 4 #2	2.7005	7.08	0.03	32754				



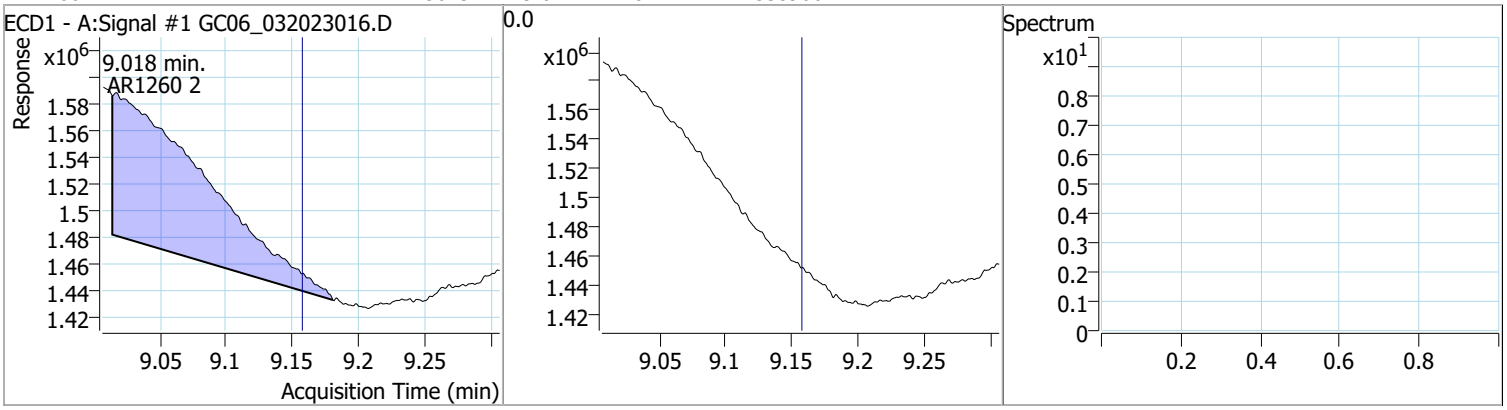
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AR1016 5 #2	2.9061	7.75	-0.01	28657				



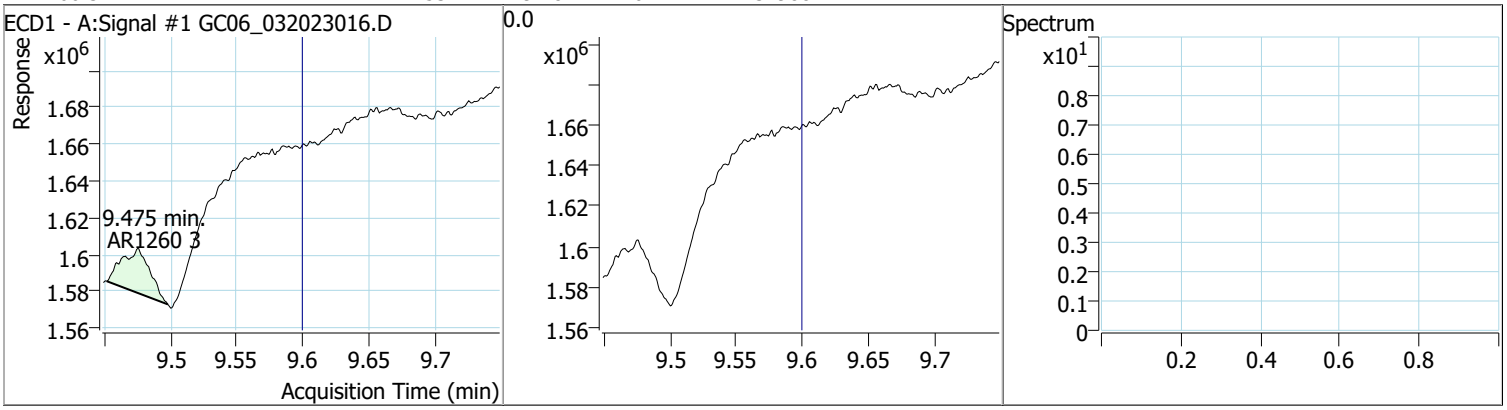
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	160.4692	8.66	0.00	926354				



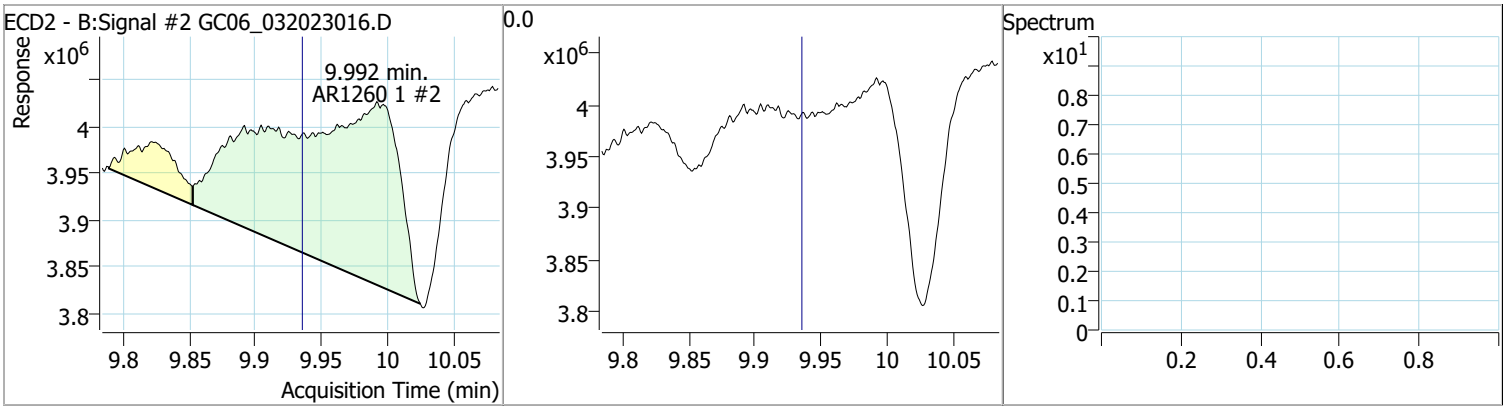
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	71.5643	9.02	-0.14	538906				



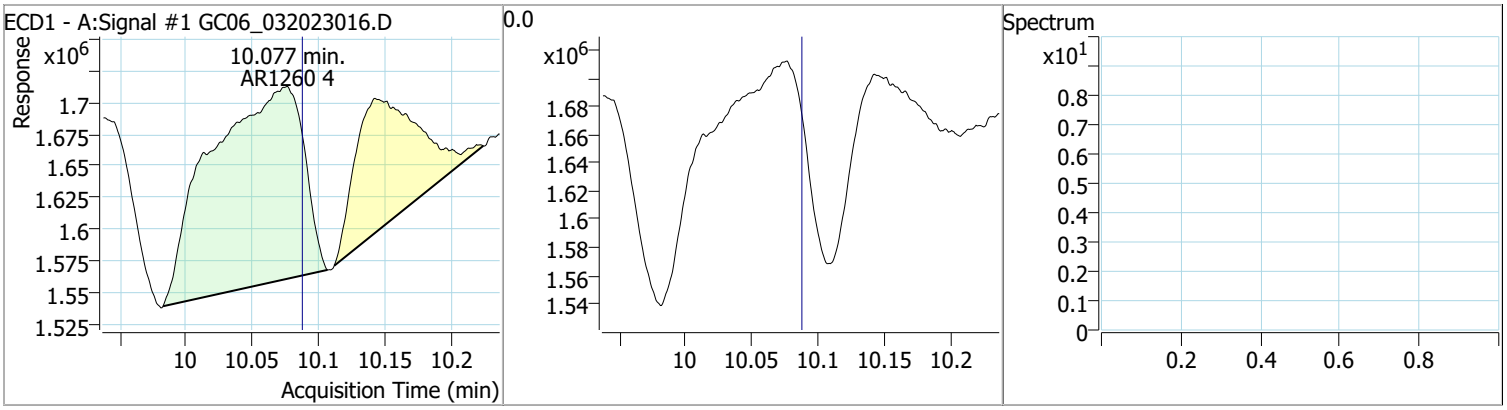
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	4.2537	9.48	-0.12	34988				



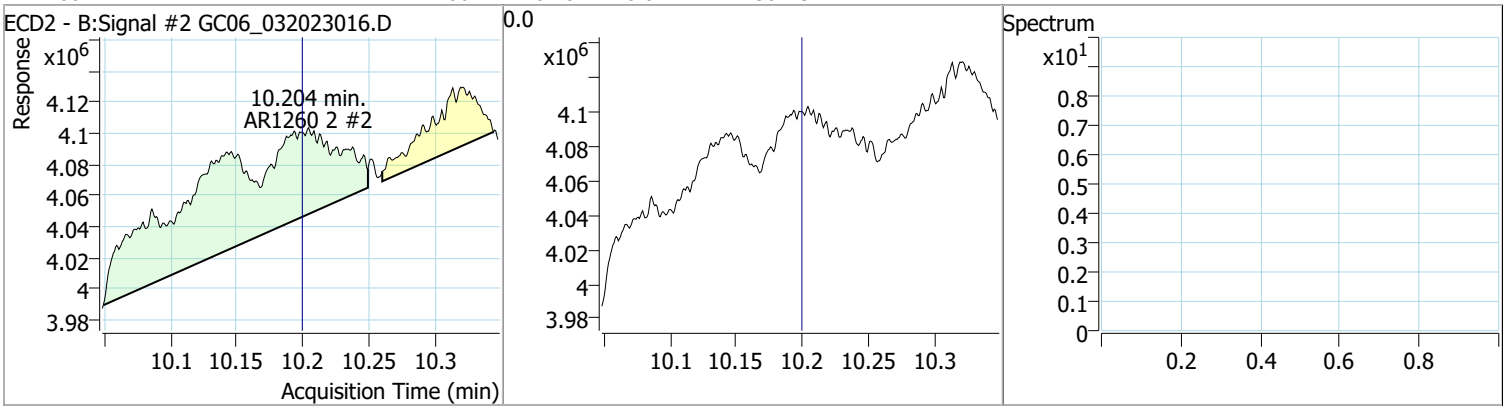
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	71.5372	9.99	0.06	1212425				



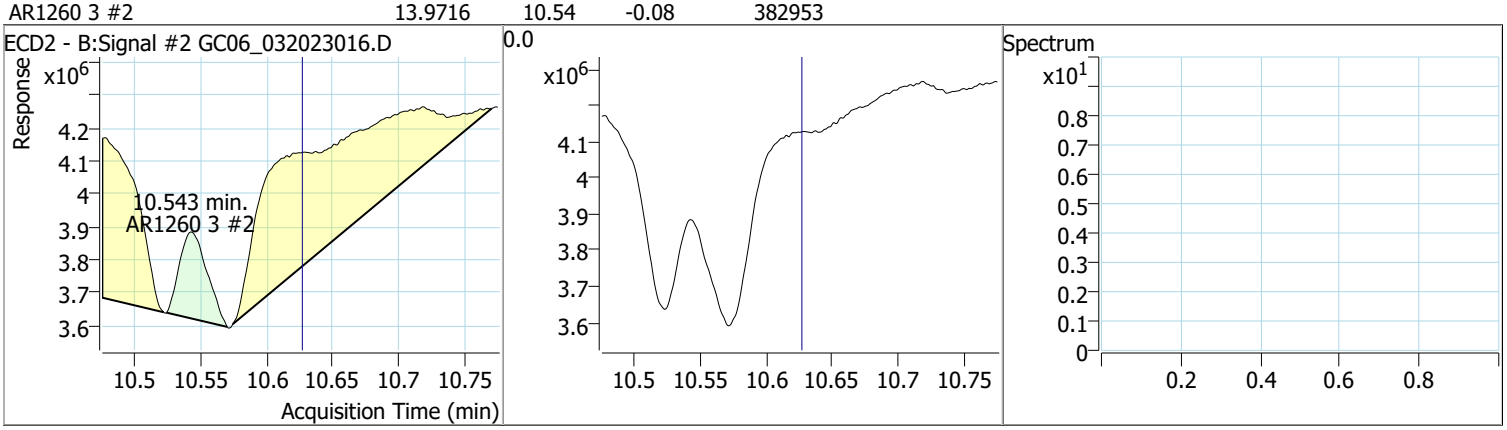
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	156.2124	10.08	-0.01	755860				



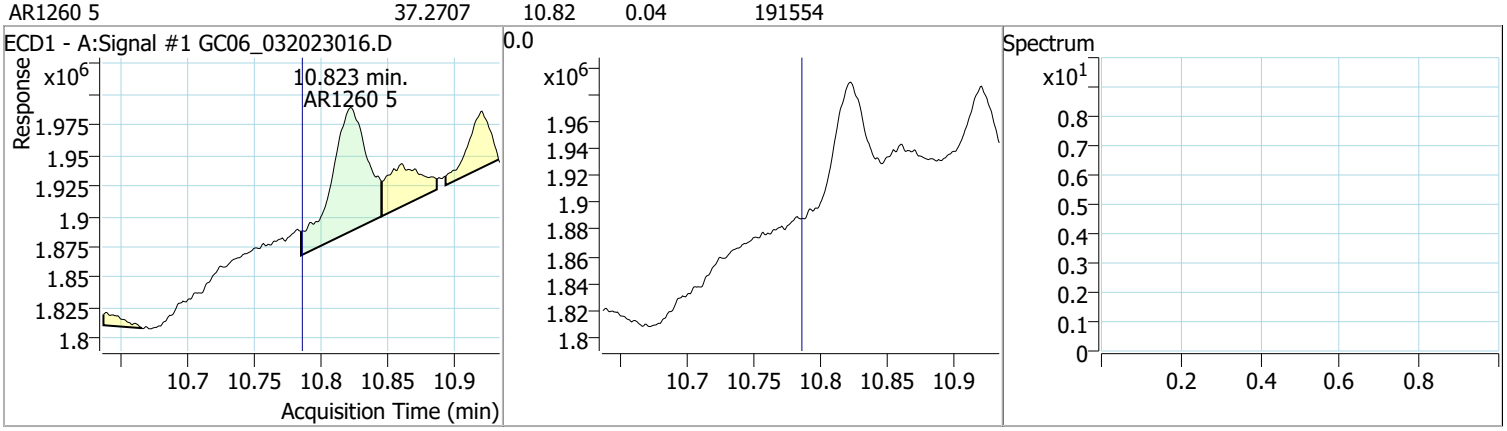
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	24.2406	10.20	0.01	501191				



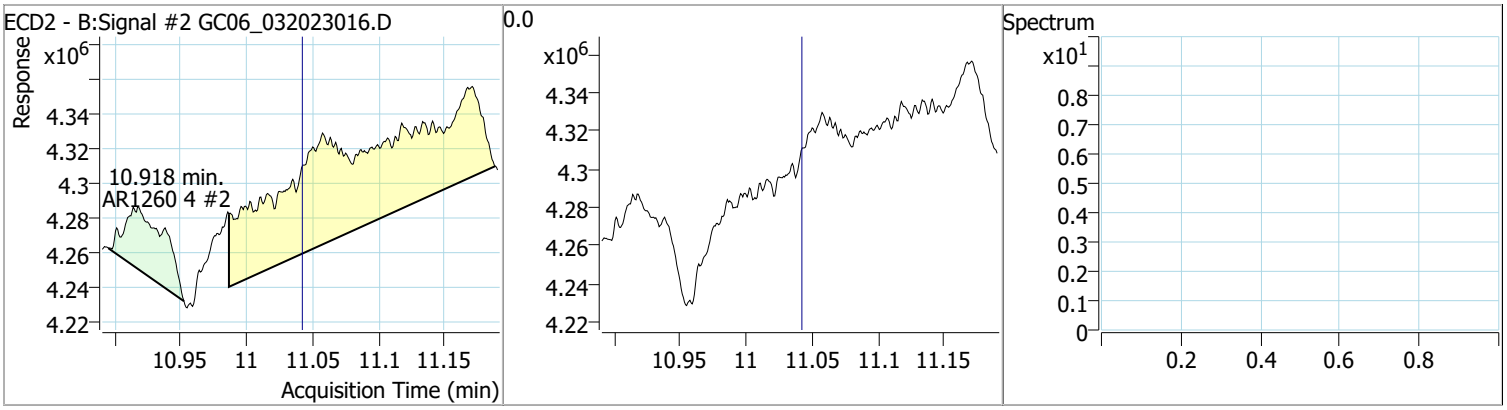
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	13.9716	10.54	-0.08	382953				



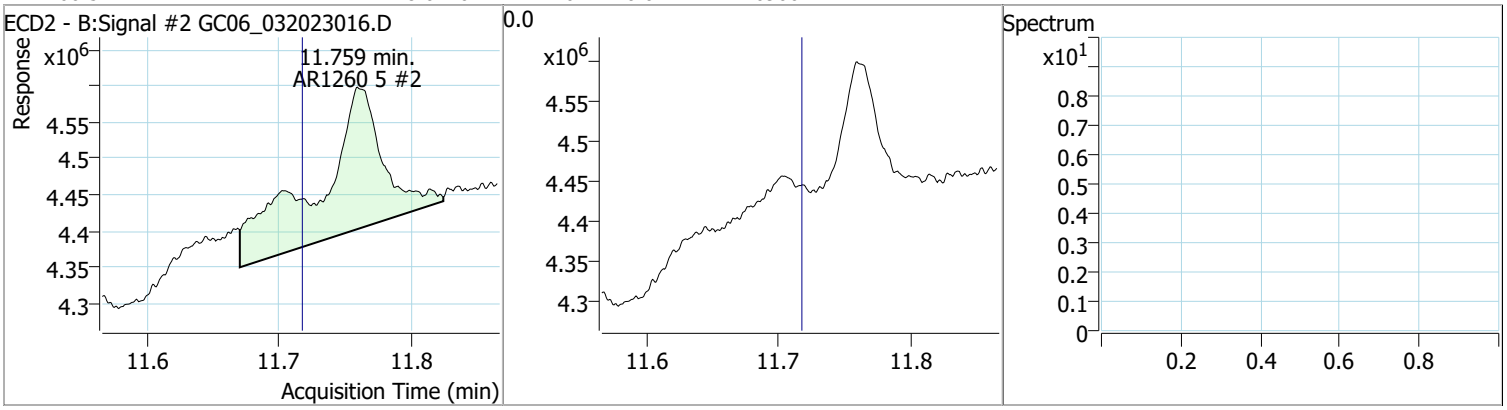
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	37.2707	10.82	0.04	191554				



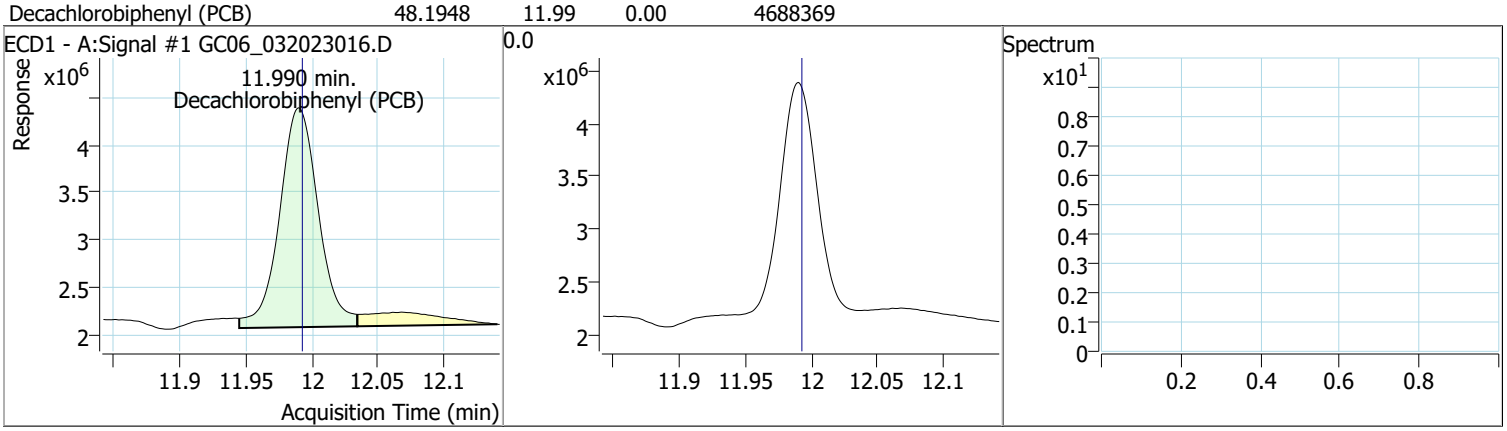
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	4.9329	10.92	-0.12	79201				



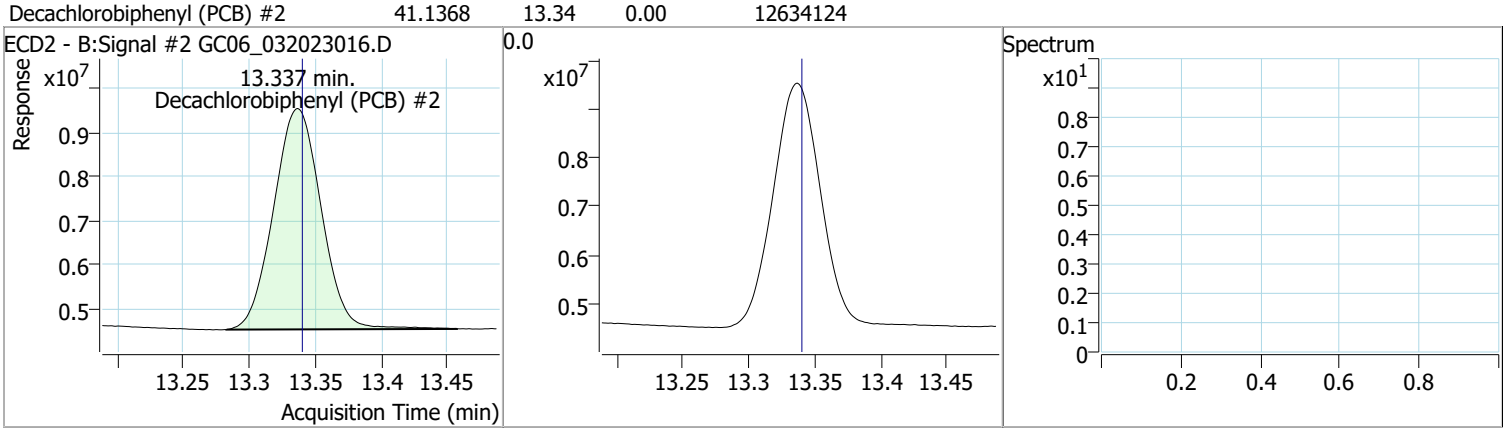
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	28.0770	11.76	0.04	690041				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	48.1948	11.99	0.00	4688369				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	41.1368	13.34	0.00	12634124				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	481683-005	Client ID:	ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-P-LA
Seqnum:	453114337017	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_032023017	Batch:	310026	Time:	20-MAR-2023 14:10
Cal:	453094313002	Caldate:	06-MAR-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	22.01	ND	1.1	134%	0.50		u
Aroclor-1016 Peak # 1	B	69.10	0.69	0.37	62%			
Aroclor-1016 Peak # 2	B	19.76	0.20	ND	426%			
Aroclor-1016 Peak # 3	B	17.85	0.18	0.95	137%			
Aroclor-1016 Peak # 4	B	0.7071	0.01	3.22	199%			
Aroclor-1016 Peak # 5	B	2.638	0.03	1.06	190%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	24.62	ND	0.74	100%	0.50		u
Aroclor-1260 Peak # 1	B	65.89	0.66	1.49	77%			
Aroclor-1260 Peak # 2	B	7.433	0.07	0.37	133%			
Aroclor-1260 Peak # 3	B	11.38	0.11	0.02	135%			
Aroclor-1260 Peak # 4	B	9.562	0.10	1.40	174%			
Aroclor-1260 Peak # 5	B	28.85	0.29	0.43	40%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	40.77	0.5000	0.4077	82	19-121	c- u
Decachlorobiphenyl (PCB)	B	42.56	0.5000	0.4256	85	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_032023004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6794542	6734401	-0.89
1-bromo-2-nitrobenzene (PCB)	A	1772847	1728948	-2.48

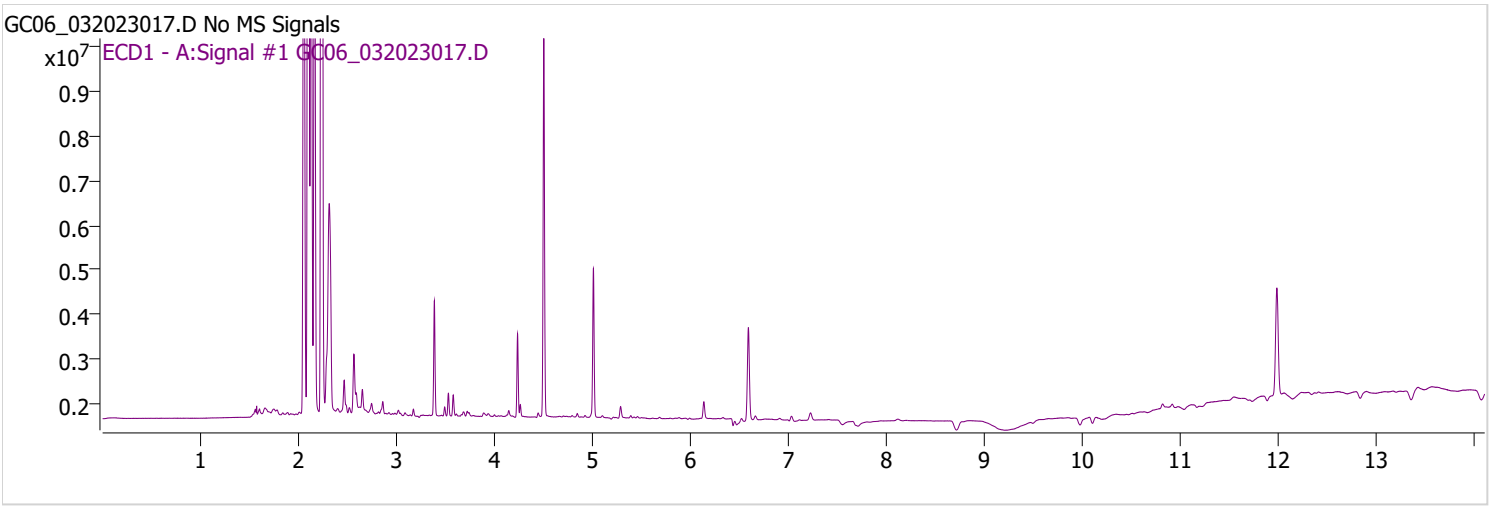
NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

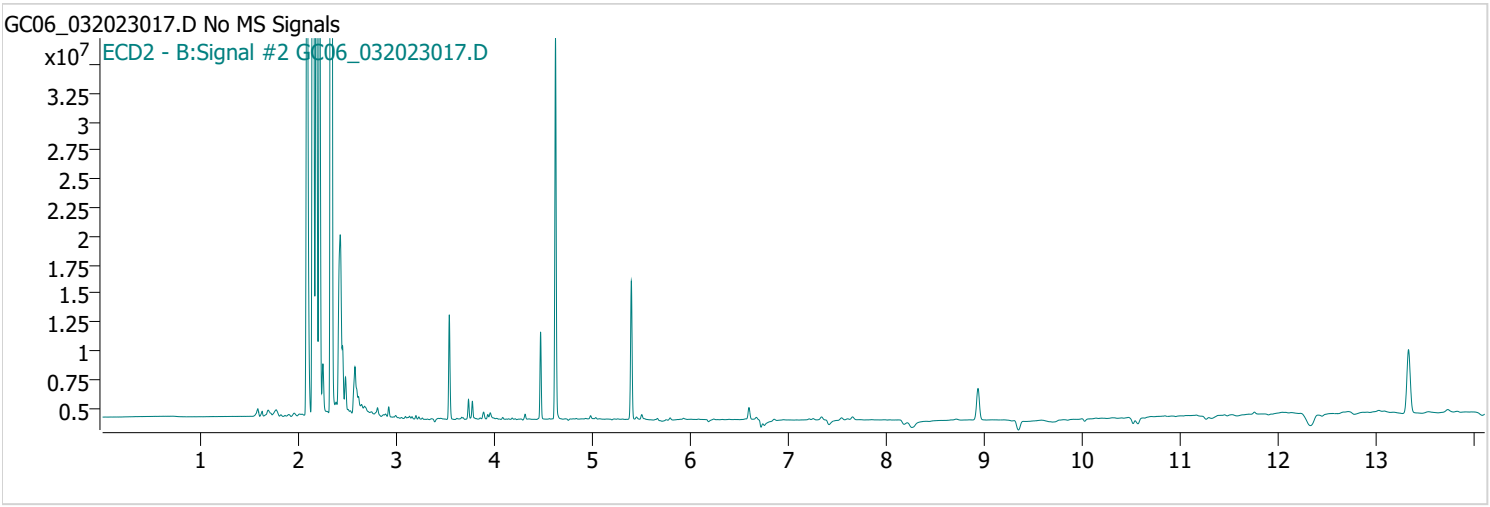
ISTD (CCV gc06_032023004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.47	4.47	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.24	4.24	0.00

Analyst: TRN 03/20/23 **Reviewer:** LW 03/23/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_032023017.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/20/2023 2:10:07 PM
Sample Name	481683-005, 310026, 1	Instrument	SVOA-GC06
Vial	6	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_6.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	032023PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



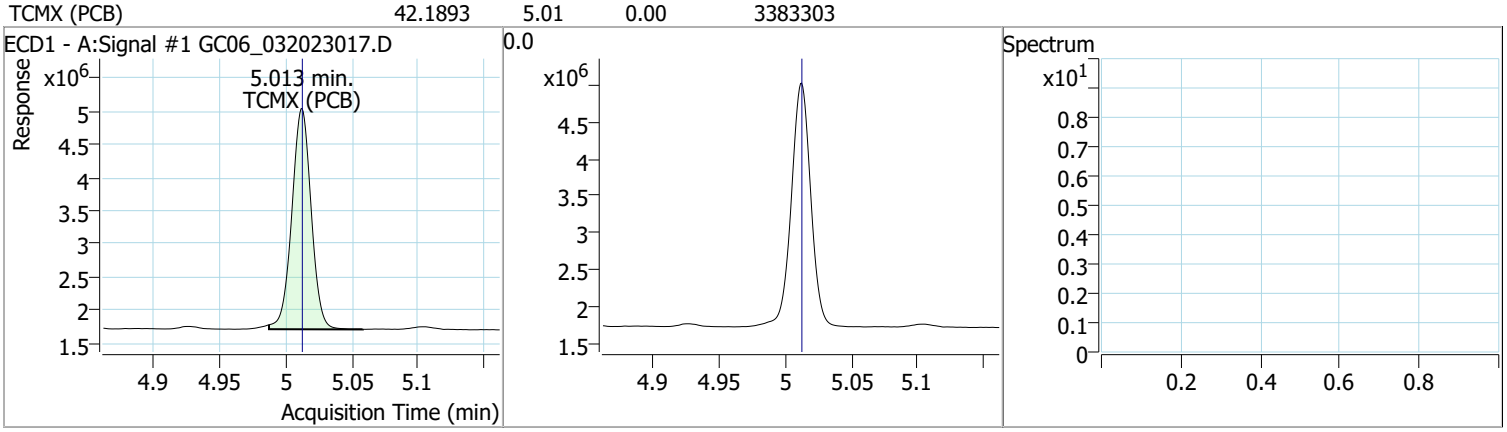


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.238	0.0	1728947.625	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.473	0.0	6734401.226	20.0000	ng/ml		0.001
System Monitoring Compounds							
S TCMX (PCB)	5.013	0.0	3383303.209	42.1893	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 210.95%		*	
S TCMX (PCB) #2	5.399	0.0	13184397.345	40.7656	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 203.83%		*	
S Decachlorobiphenyl (PCB)	11.991	0.0	5085015.817	49.4522	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 247.26%		*	
S Decachlorobiphenyl (PCB) #2	13.335	0.0	13789020.989	42.5575	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 212.79%		*	
Target Compounds							QValue

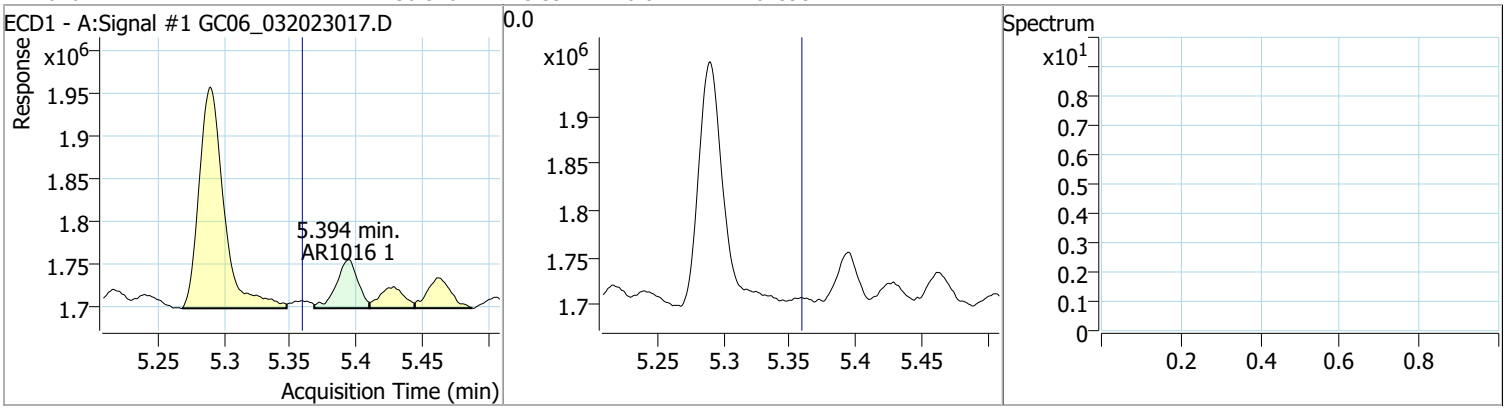
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.394	0.0	64594.991	36.5167	ng/ml	100
T AR1016 2	5.688	0.0	43699.561	0.0000	ng/ml	100
T AR1016 1 #2	5.931	0.0	443131.187	69.0999	ng/ml	100
T AR1016 3	6.140	0.0	500962.549	95.2282	ng/ml	100
T AR1016 4	6.336	0.0	1111492.779	321.7047	ng/ml	100
T AR1016 2 #2	6.328	0.0	280535.617	19.7630	ng/ml	100
T AR1016 5	6.525	0.0	208657.152	106.0716	ng/ml	100
T AR1016 3 #2	6.858	0.0	309311.537	17.8547	ng/ml	100
T AR1016 4 #2	7.083	0.0	9048.029	0.7071	ng/ml	100
T AR1016 5 #2	7.854	0.0	27441.592	2.6379	ng/ml	100
T AR1260 1	8.628	0.0	911193.151	148.7279	ng/ml	100
T AR1260 2	9.304	0.0	291763.240	36.6546	ng/ml	100
T AR1260 3	9.476	0.0	19296.541	2.2195	ng/ml	100
T AR1260 1 #2	9.998	0.0	1178184.375	65.8943	ng/ml	100
T AR1260 4	10.077	0.0	716593.964	140.1078	ng/ml	100
T AR1260 2 #2	10.199	0.0	162125.209	7.4327	ng/ml	100
T AR1260 3 #2	10.543	0.0	329212.486	11.3850	ng/ml	100
T AR1260 5	10.823	0.0	235842.741	43.4124	ng/ml	100
T AR1260 4 #2	11.060	0.0	161968.378	9.5623	ng/ml	100
T AR1260 5 #2	11.763	0.0	747964.022	28.8479	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

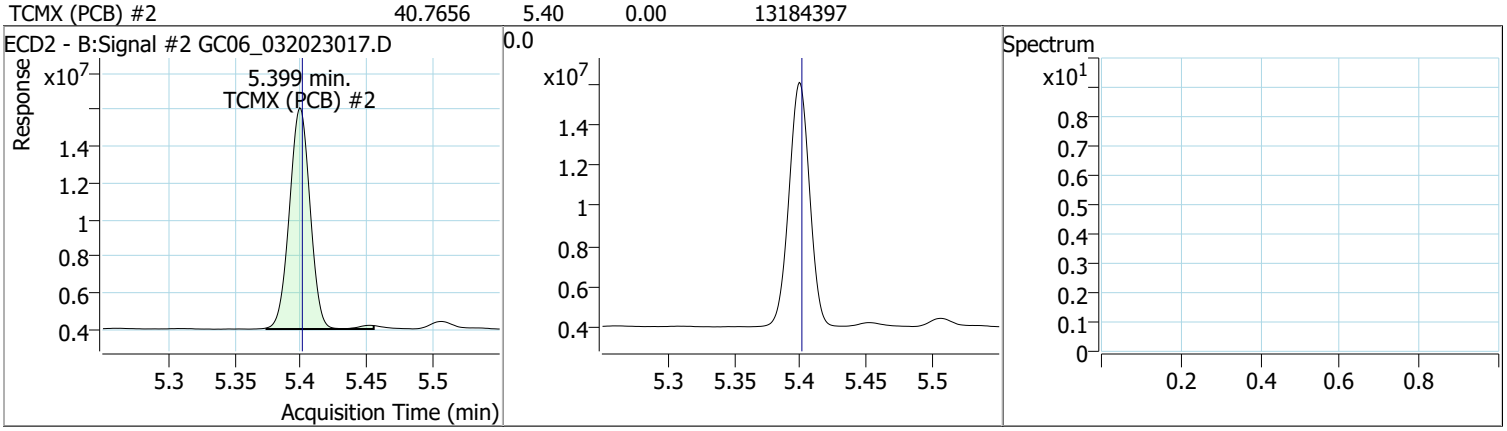
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	42.1893	5.01	0.00	3383303				



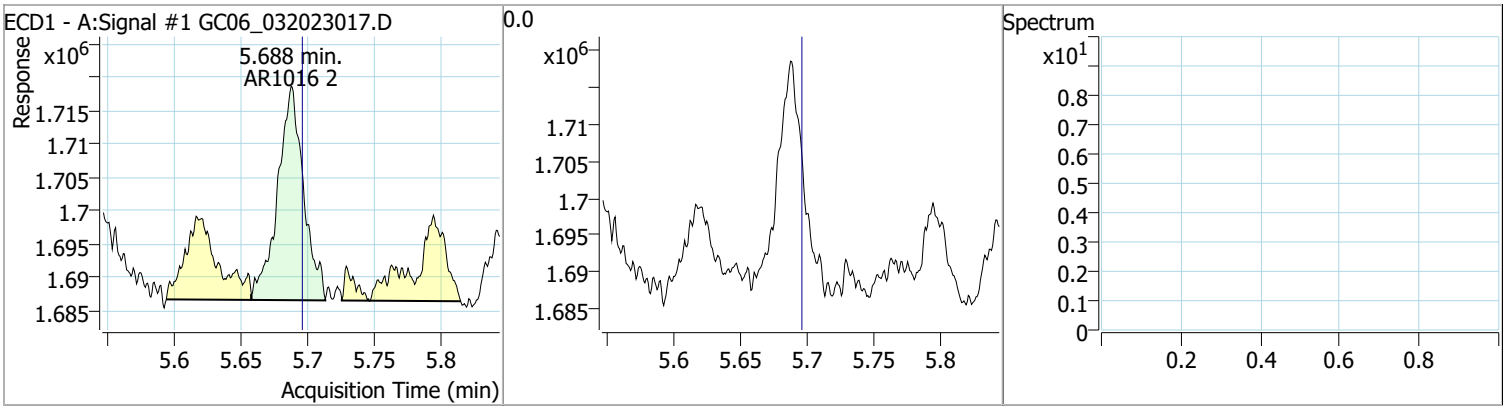
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	36.5167	5.39	0.04	64595				



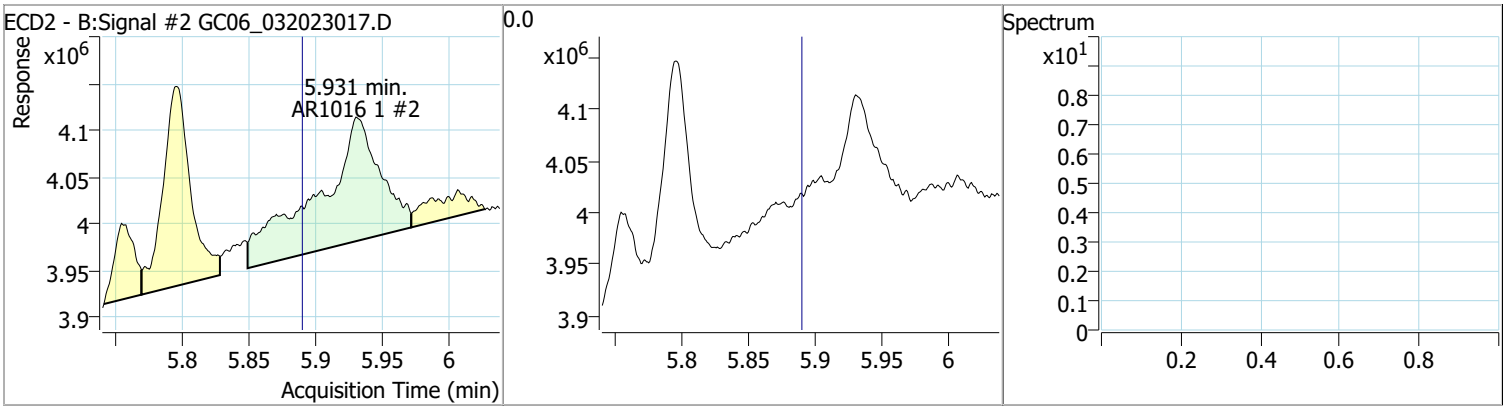
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	40.7656	5.40	0.00	13184397				



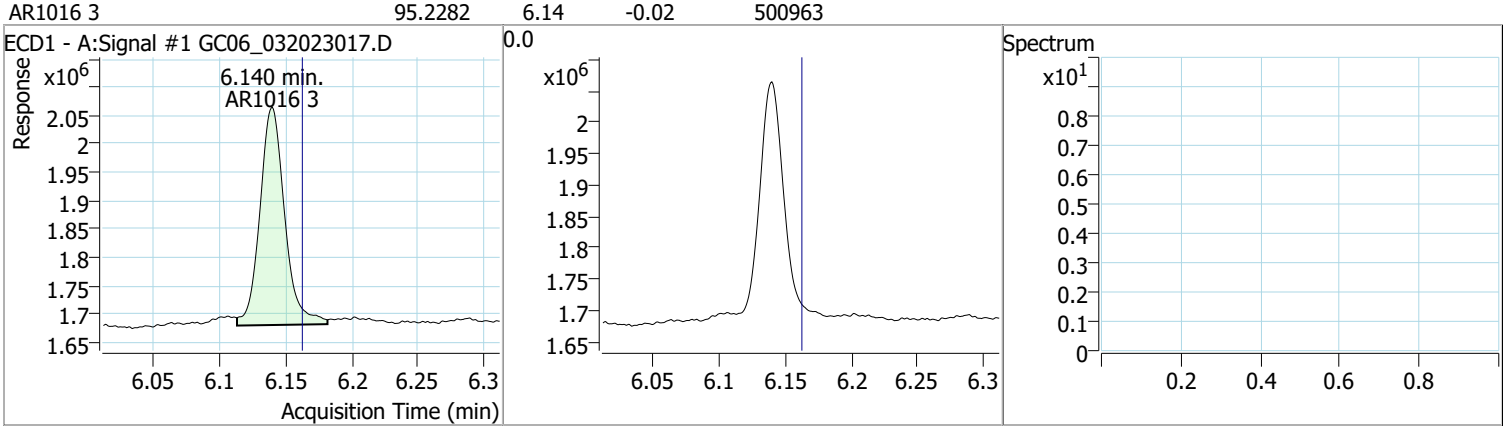
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.69	-0.01	43700				



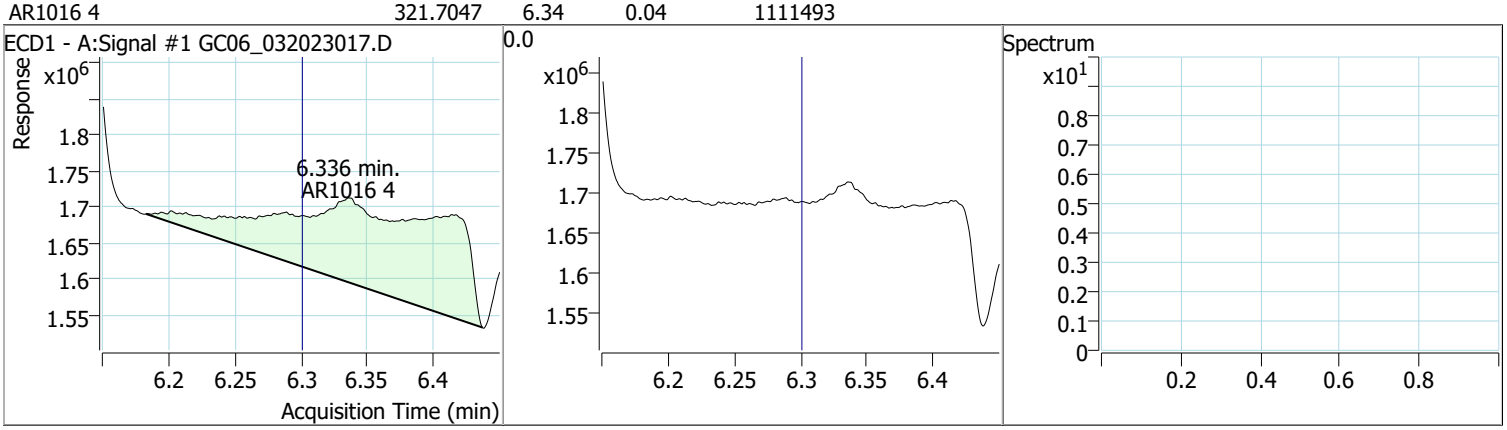
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	69.0999	5.93	0.04	443131				



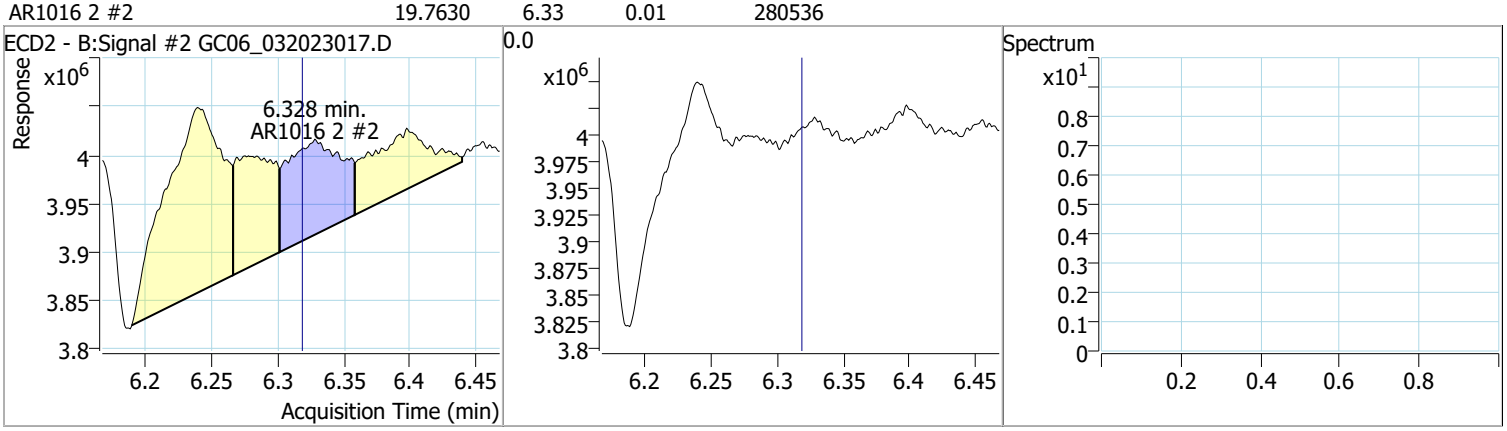
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	95.2282	6.14	-0.02	500963				



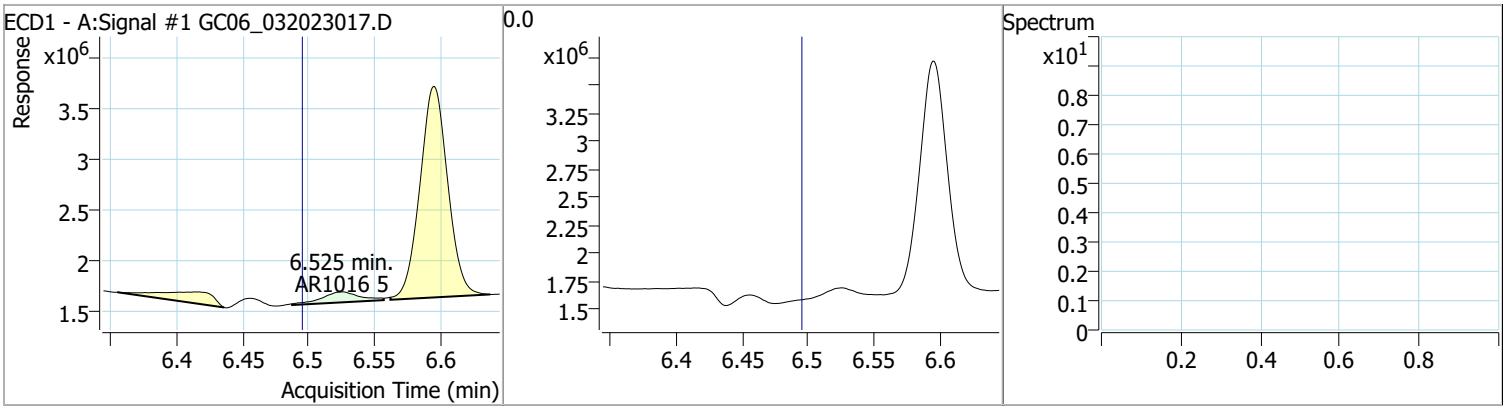
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	321.7047	6.34	0.04	1111493				



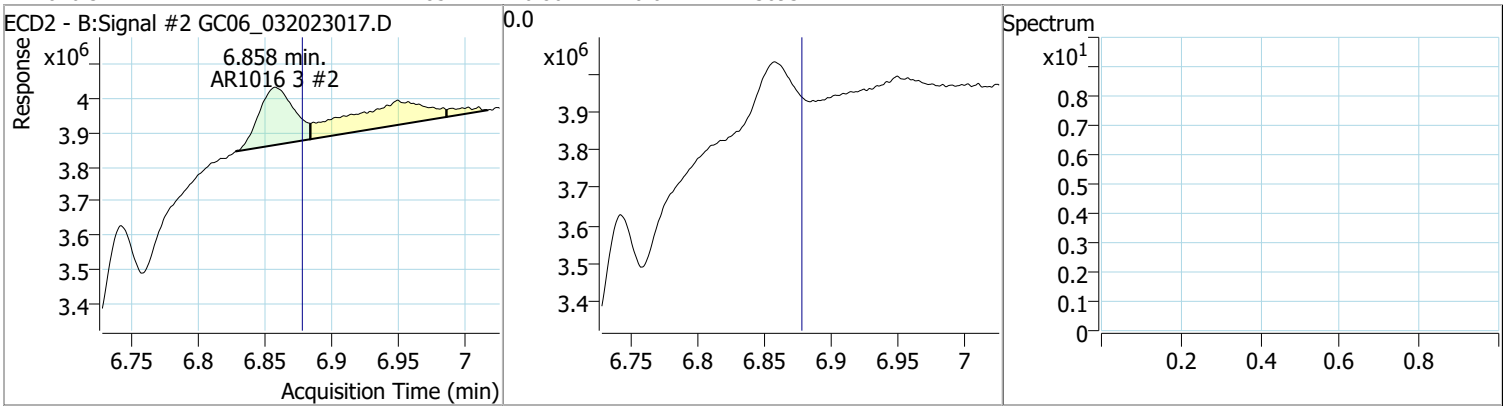
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	19.7630	6.33	0.01	280536				



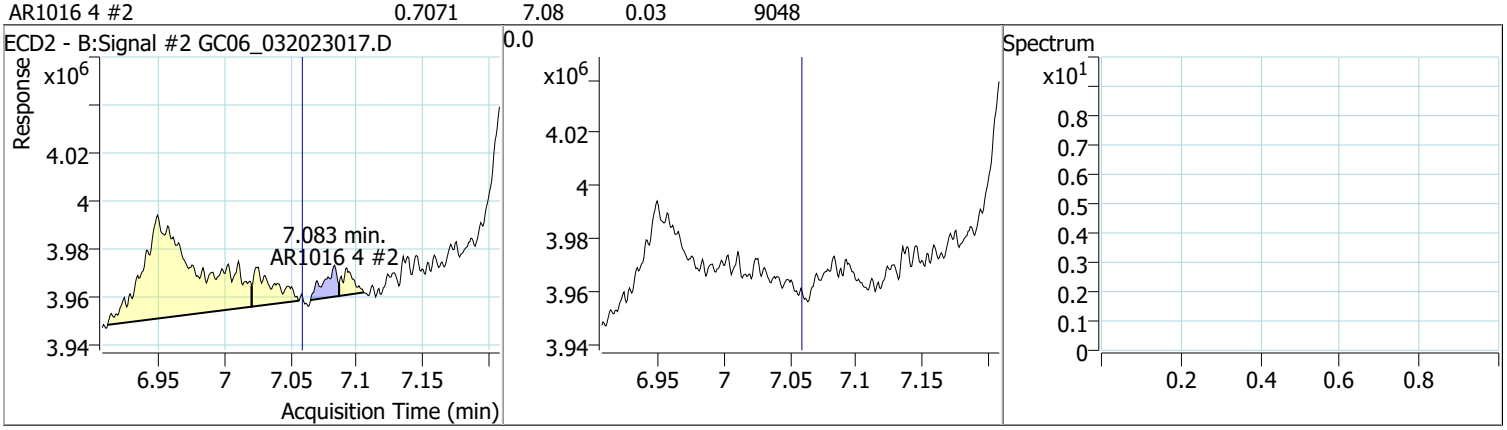
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	106.0716	6.53	0.03	208657				



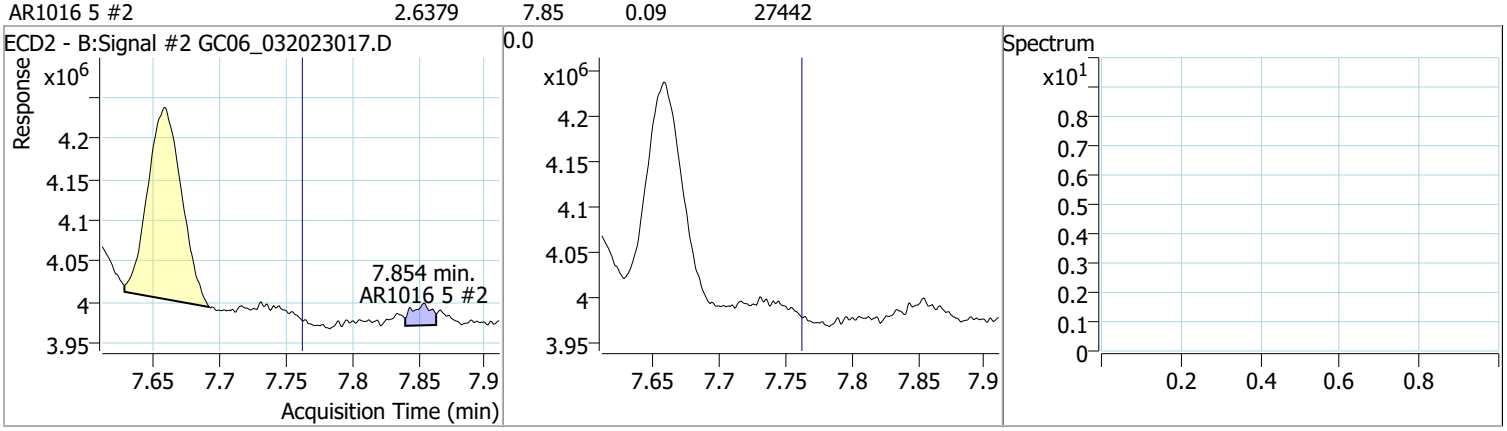
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	17.8547	6.86	-0.02	309312				



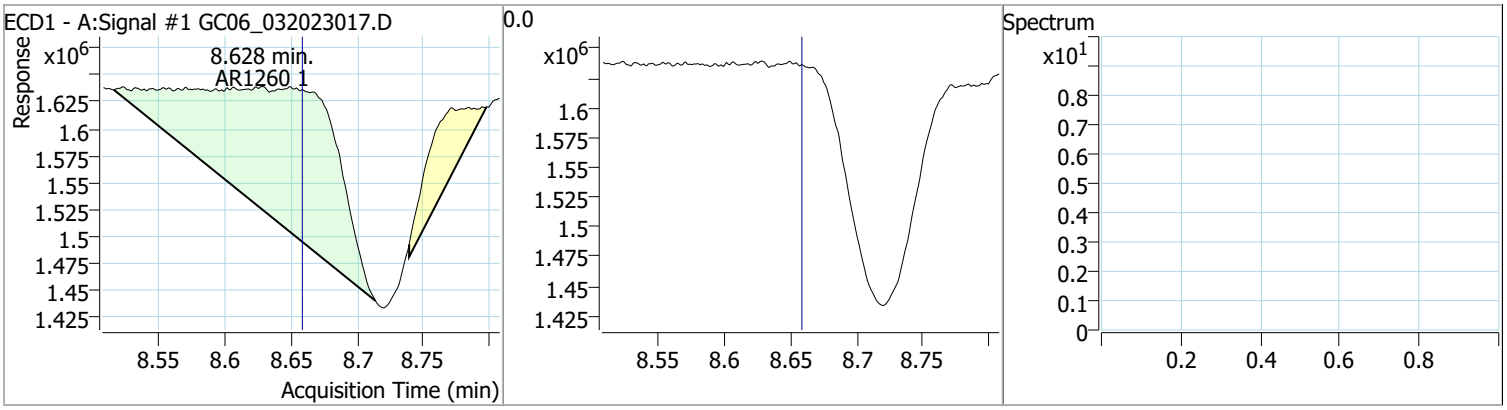
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	0.7071	7.08	0.03	9048				



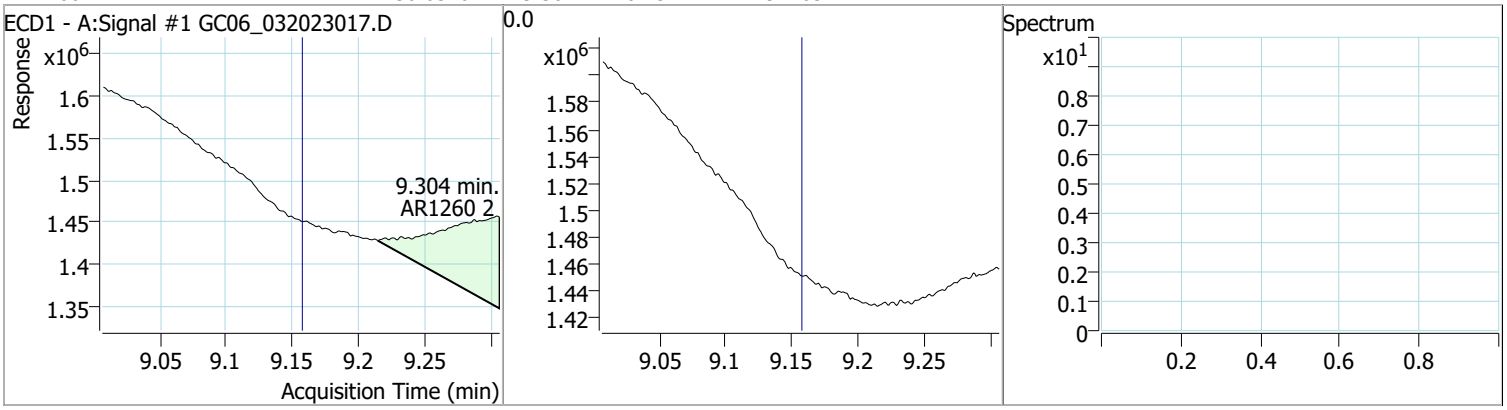
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	2.6379	7.85	0.09	27442				



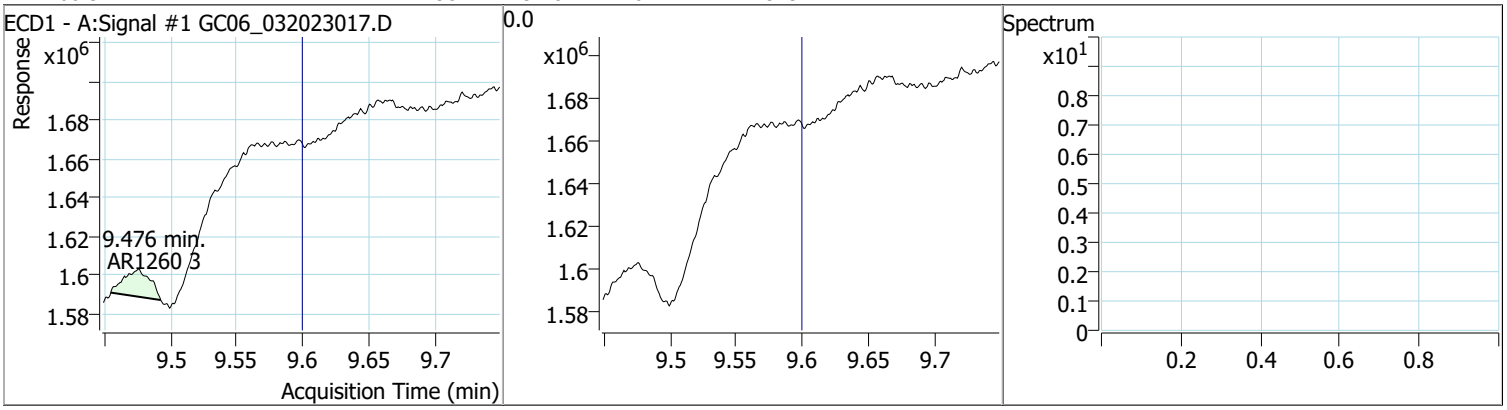
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	148.7279	8.63	-0.03	911193				



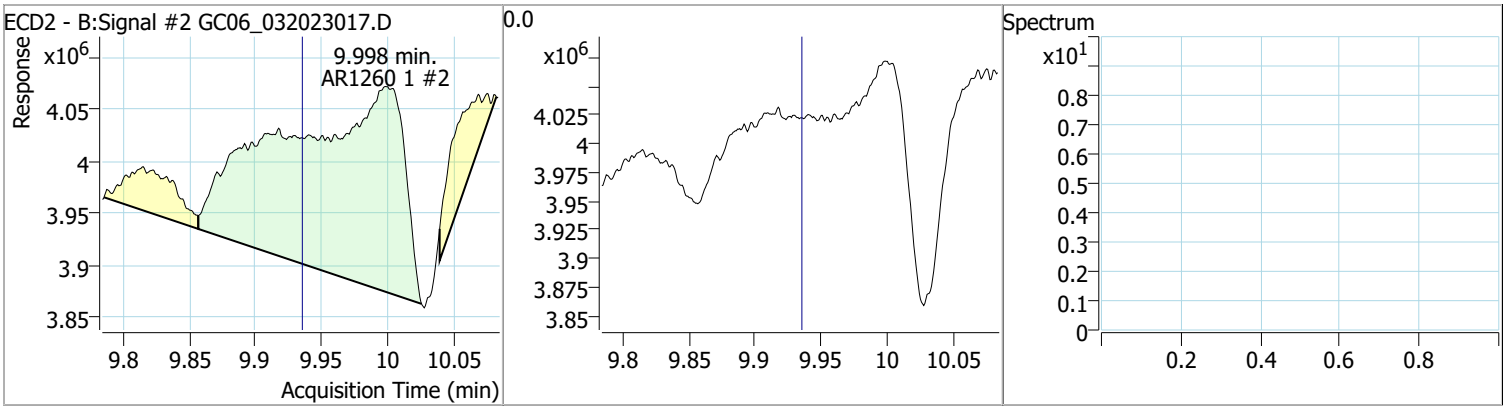
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	36.6546	9.30	0.15	291763				



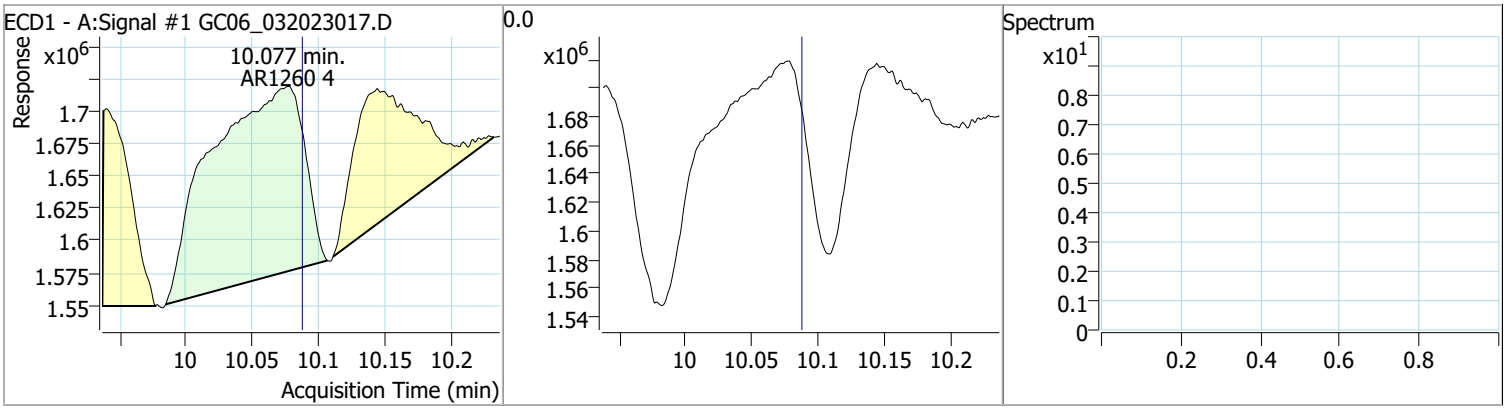
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	2.2195	9.48	-0.12	19297				



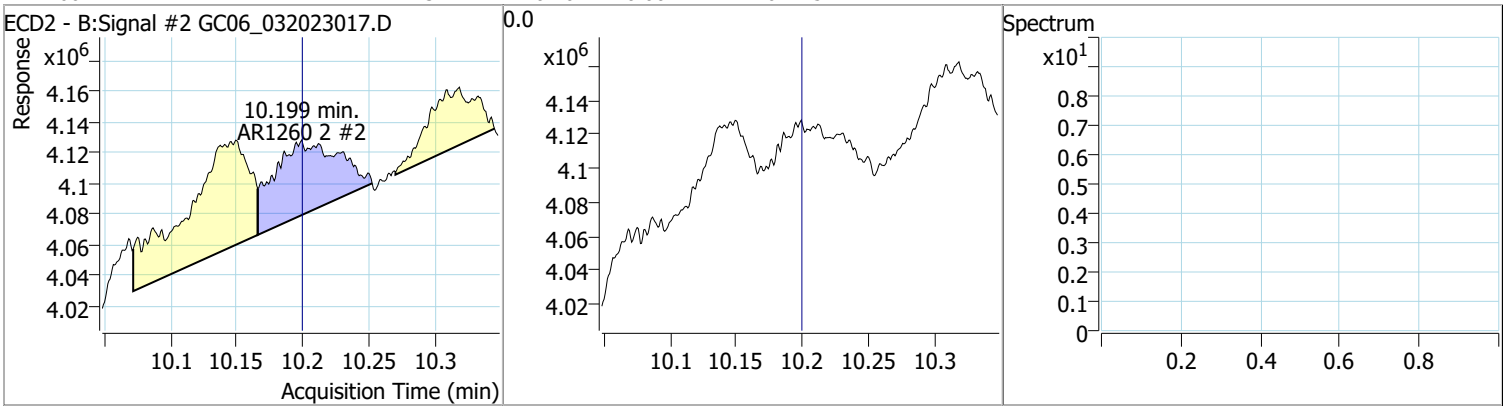
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	65.8943	10.00	0.07	1178184				



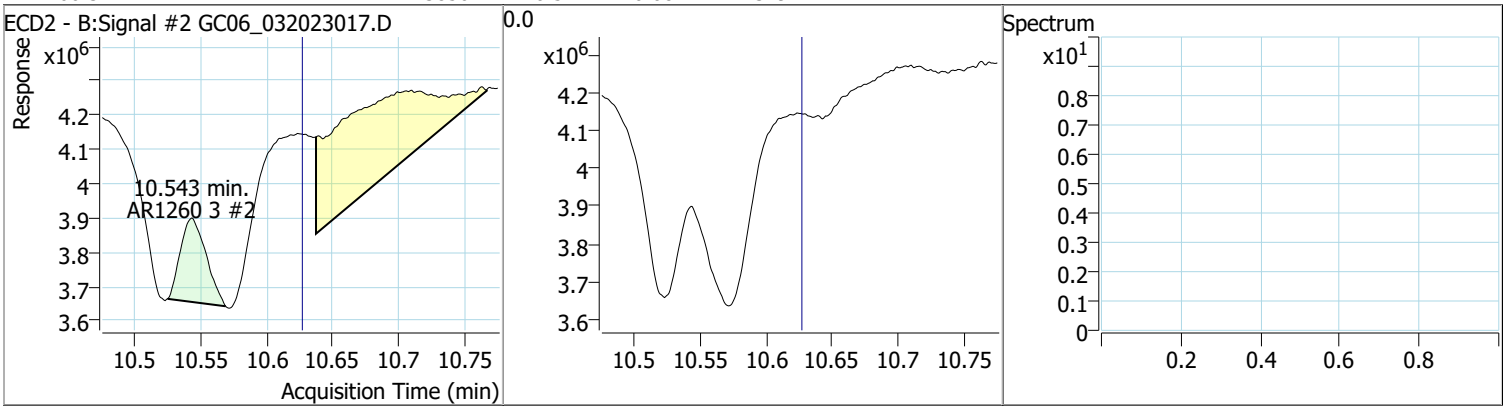
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	140.1078	10.08	-0.01	716594				



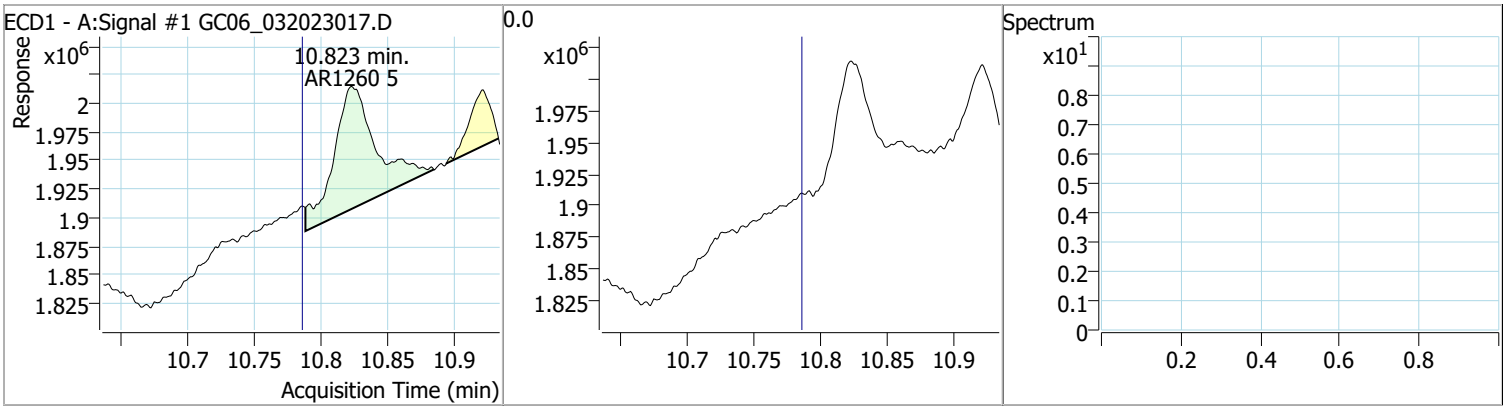
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	7.4327	10.20	0.00	162125				



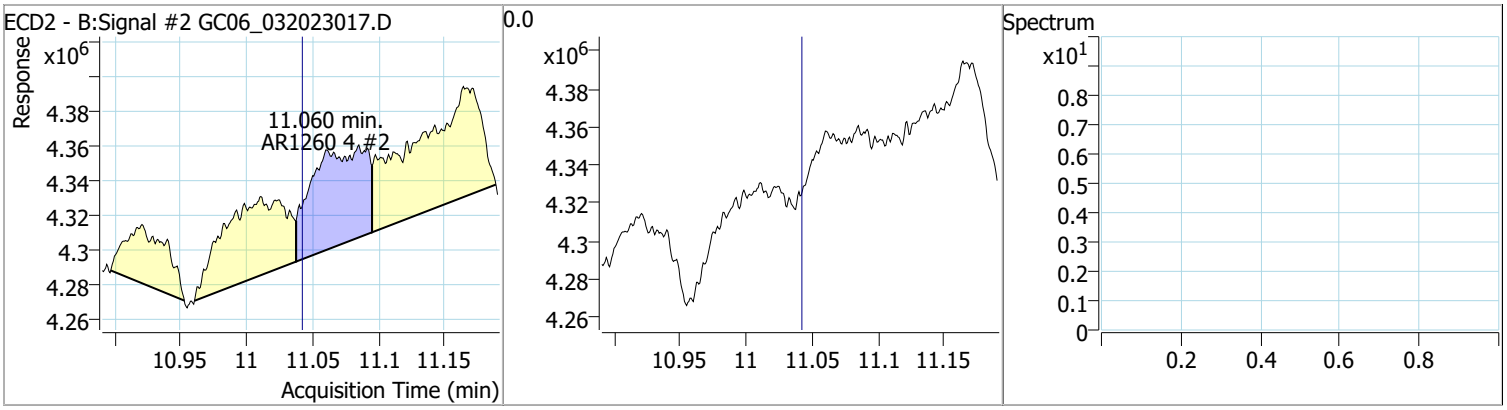
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	11.3850	10.54	-0.08	329212				



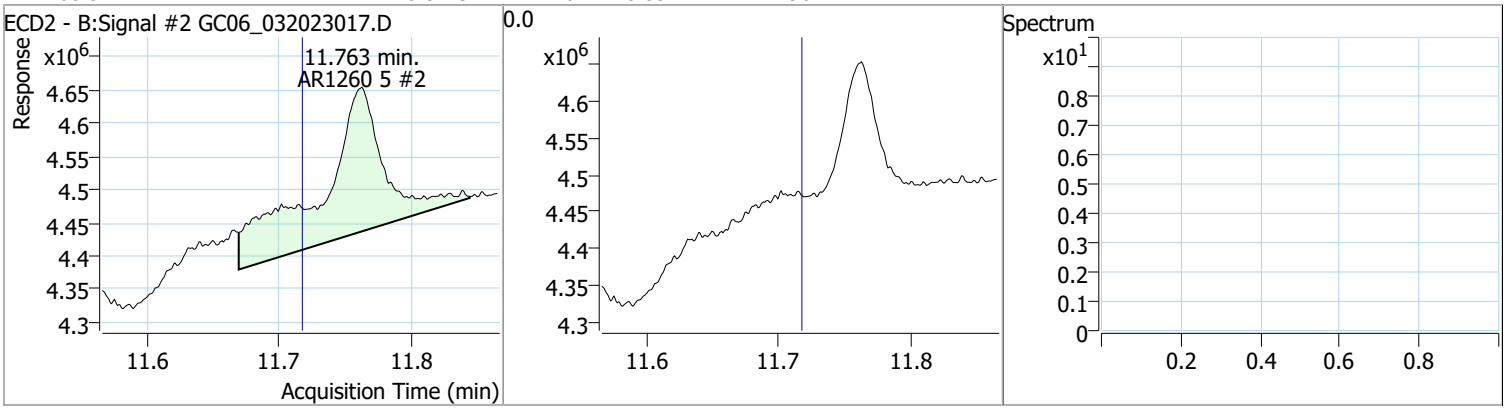
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	43.4124	10.82	0.04	235843				



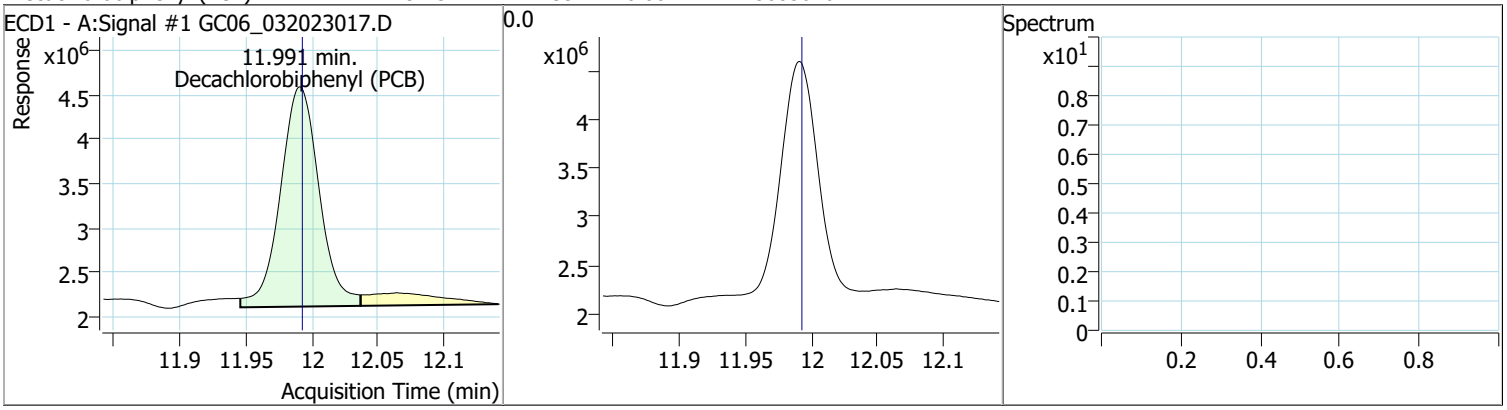
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	9.5623	11.06	0.02	161968				



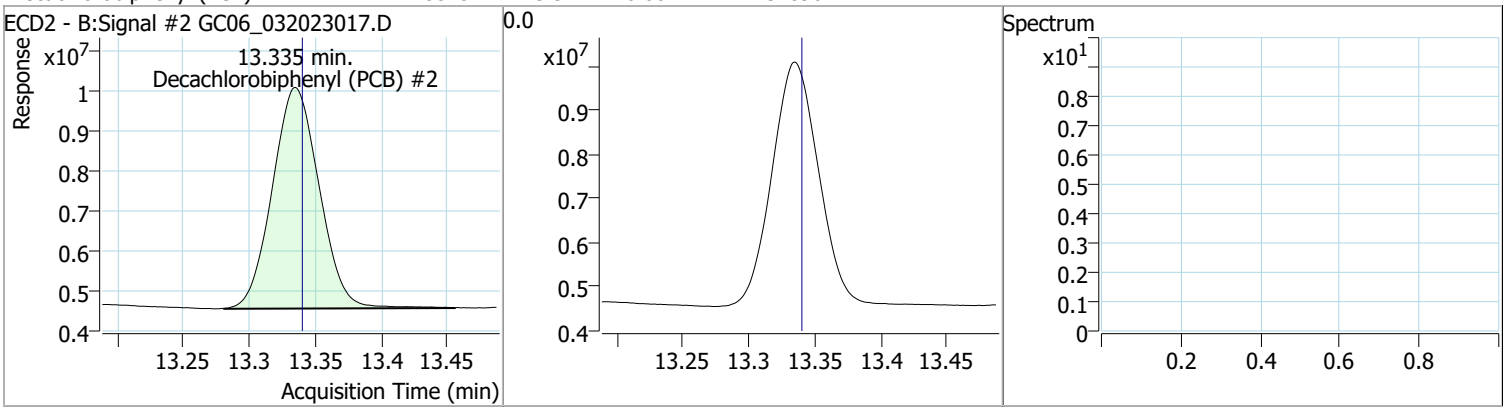
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	28.8479	11.76	0.05	747964				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	49.4522	11.99	0.00	5085016				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	42.5575	13.34	0.00	13789021				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	481683-007	Client ID:	ARCH-C3E-DG-2.5 TO 3-230316-P-FB
Seqnum:	453114337018	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_032023018	Batch:	310026	Time:	20-MAR-2023 14:28
Cal:	453094313002	Caldate:	06-MAR-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	45.48	ND	0.98	74%	0.50		u
Aroclor-1016 Peak # 1	B	79.00	0.79	0.34	79%			
Aroclor-1016 Peak # 2	B	128.4	1.28	ND	215%			
Aroclor-1016 Peak # 3	B	15.69	0.16	1.31	157%			
Aroclor-1016 Peak # 4	B	0.9358	0.01	2.76	199%			
Aroclor-1016 Peak # 5	B	3.384	0.03	0.56	177%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	27.99	ND	0.70	86%	0.50		u
Aroclor-1260 Peak # 1	B	70.12	0.70	1.39	66%			
Aroclor-1260 Peak # 2	B	23.40	0.23	0.13	57%			
Aroclor-1260 Peak # 3	B	12.06	0.12	0.03	119%			
Aroclor-1260 Peak # 4	B	3.651	0.04	1.53	191%			
Aroclor-1260 Peak # 5	B	30.71	0.31	0.42	32%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	38.38	0.5000	0.3838	77	19-121	c- u
Decachlorobiphenyl (PCB)	B	39.29	0.5000	0.3929	79	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_032023004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6794542	7370790	8.48
1-bromo-2-nitrobenzene (PCB)	A	1772847	1904287	7.41

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

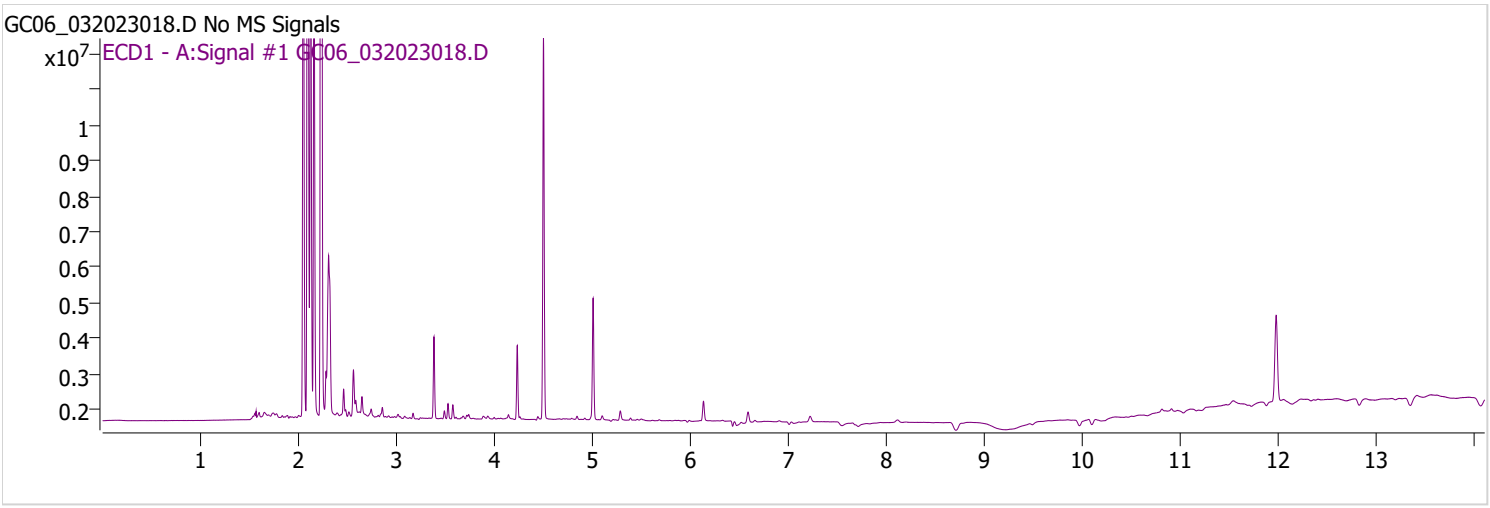
ISTD (CCV gc06_032023004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.47	4.47	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.24	4.24	0.00

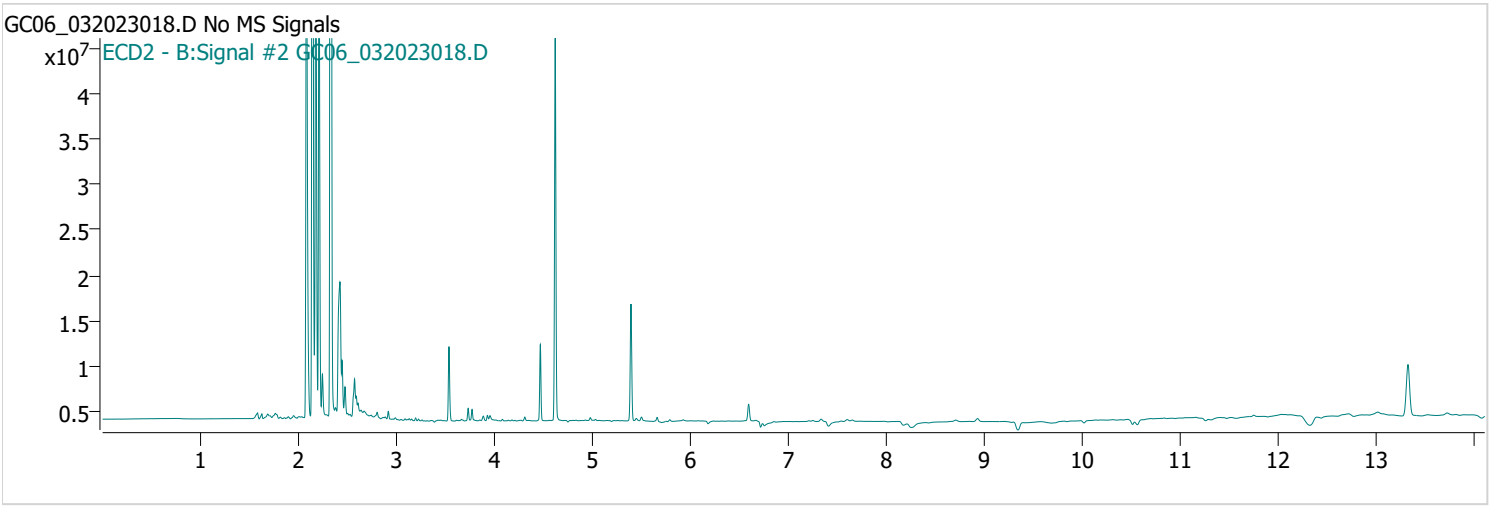
-=low bias c=CCV u=use

Analyst: TRN 03/20/23 **Reviewer:** LW 03/23/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_032023018.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/20/2023 2:28:25 PM
Sample Name	481683-007, 310026, 1	Instrument	SVOA-GC06
Vial	7	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_6.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	032023PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



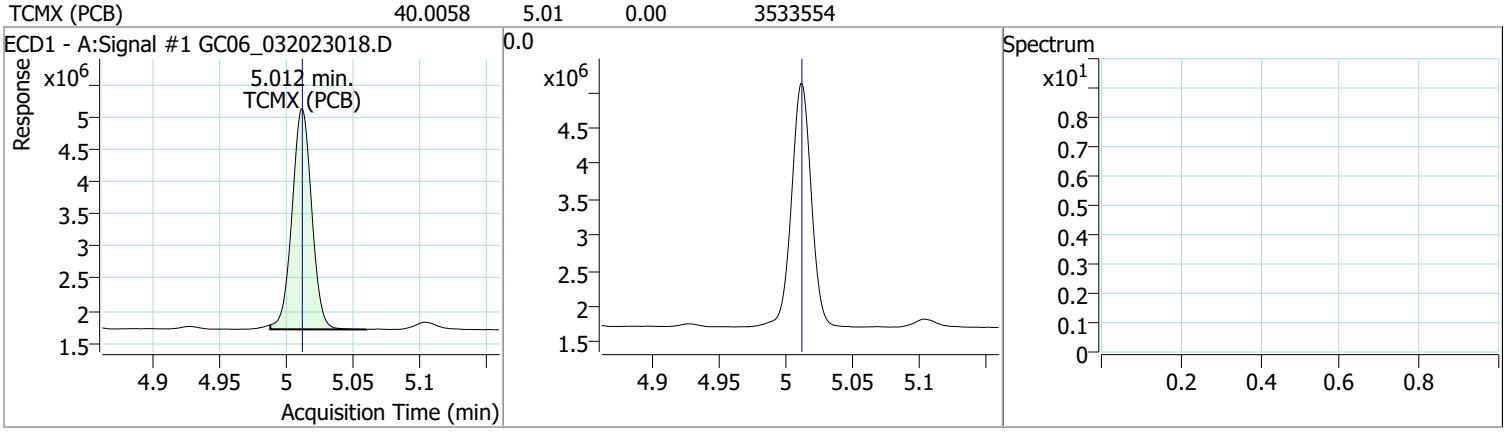


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.237	0.0	1904287.373	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.473	0.0	7370790.302	20.0000	ng/ml		0.001
System Monitoring Compounds							
S TCMX (PCB)	5.012	0.0	3533554.015	40.0058	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 200.03%		*	
S TCMX (PCB) #2	5.398	0.0	13586401.809	38.3816	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 191.91%		*	
S Decachlorobiphenyl (PCB)	11.990	0.0	5106207.885	45.0859	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 225.43%		*	
S Decachlorobiphenyl (PCB) #2	13.338	0.0	13931825.377	39.2858	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 196.43%		*	
Target Compounds							QValue

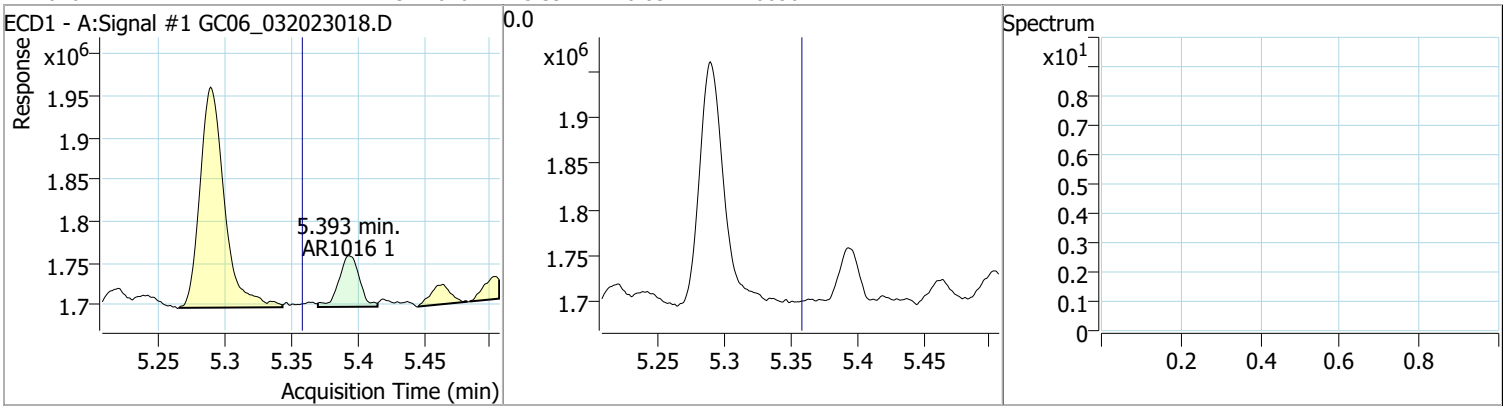
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.393	0.0	66562.043	34.1640	ng/ml	100
T AR1016 2	5.687	0.0	57883.770	0.0000	ng/ml	100
T AR1016 1 #2	5.933	0.0	554492.382	78.9997	ng/ml	100
T AR1016 3	6.139	0.0	729905.555	131.4763	ng/ml	100
T AR1016 4	6.331	0.0	1050252.723	275.9904	ng/ml	100
T AR1016 2 #2	6.394	0.0	1994723.467	128.3906	ng/ml	100
T AR1016 5	6.528	0.0	120308.390	55.5279	ng/ml	100
T AR1016 3 #2	6.743	0.0	297434.881	15.6867	ng/ml	100
T AR1016 4 #2	7.090	0.0	13105.047	0.9358	ng/ml	100
T AR1016 5 #2	7.738	0.0	38531.702	3.3841	ng/ml	100
T AR1260 1	8.524	0.0	940299.157	138.8421	ng/ml	100
T AR1260 2	9.024	0.0	114302.822	13.0378	ng/ml	100
T AR1260 3	9.473	0.0	29223.406	3.0517	ng/ml	100
T AR1260 1 #2	9.994	0.0	1372272.916	70.1229	ng/ml	100
T AR1260 4	10.074	0.0	861482.693	152.9273	ng/ml	100
T AR1260 2 #2	10.197	0.0	558551.553	23.3962	ng/ml	100
T AR1260 3 #2	10.543	0.0	381770.621	12.0627	ng/ml	100
T AR1260 5	10.823	0.0	253660.918	42.3930	ng/ml	100
T AR1260 4 #2	10.921	0.0	67681.515	3.6508	ng/ml	100
T AR1260 5 #2	11.763	0.0	871364.324	30.7057	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

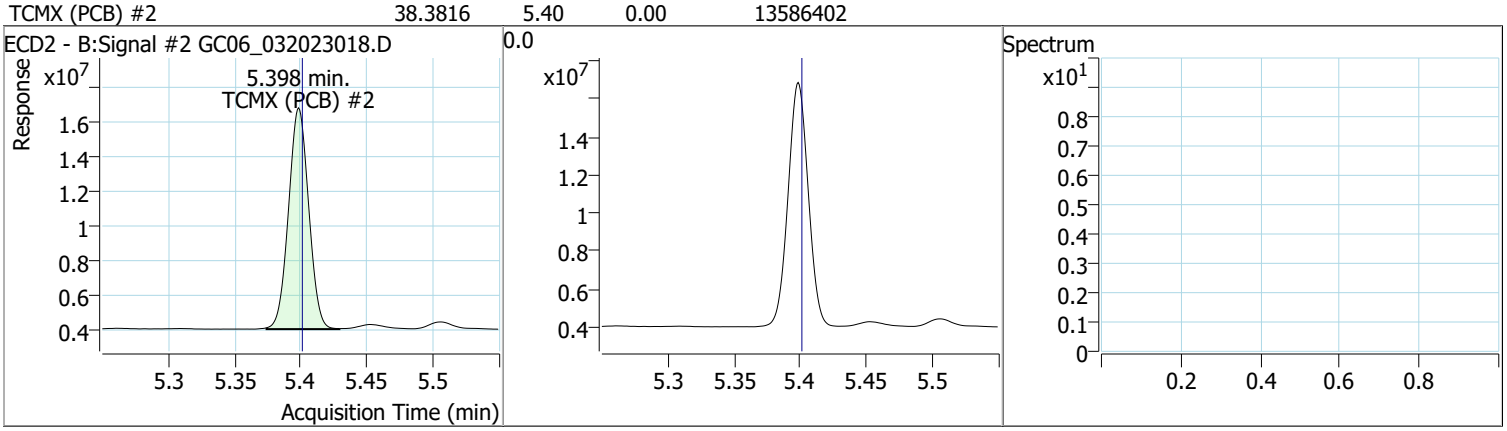
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	40.0058	5.01	0.00	3533554				



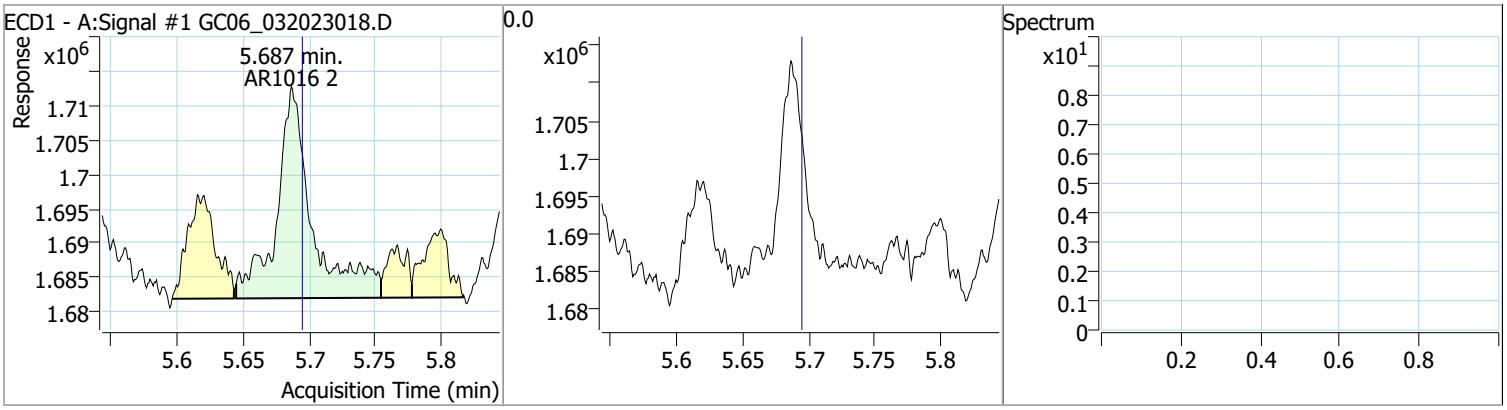
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	34.1640	5.39	0.03	66562				



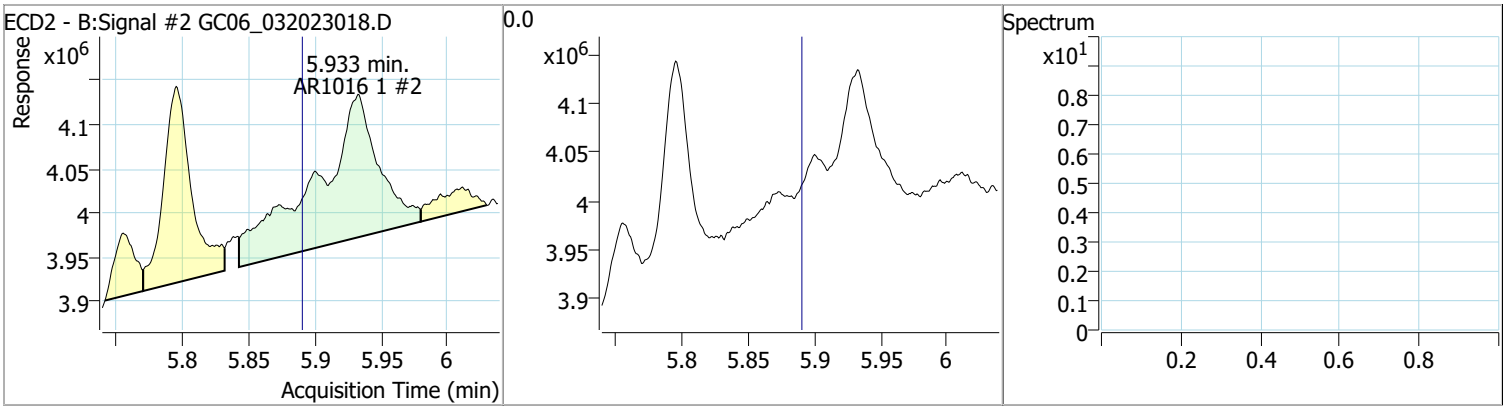
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	38.3816	5.40	0.00	13586402				



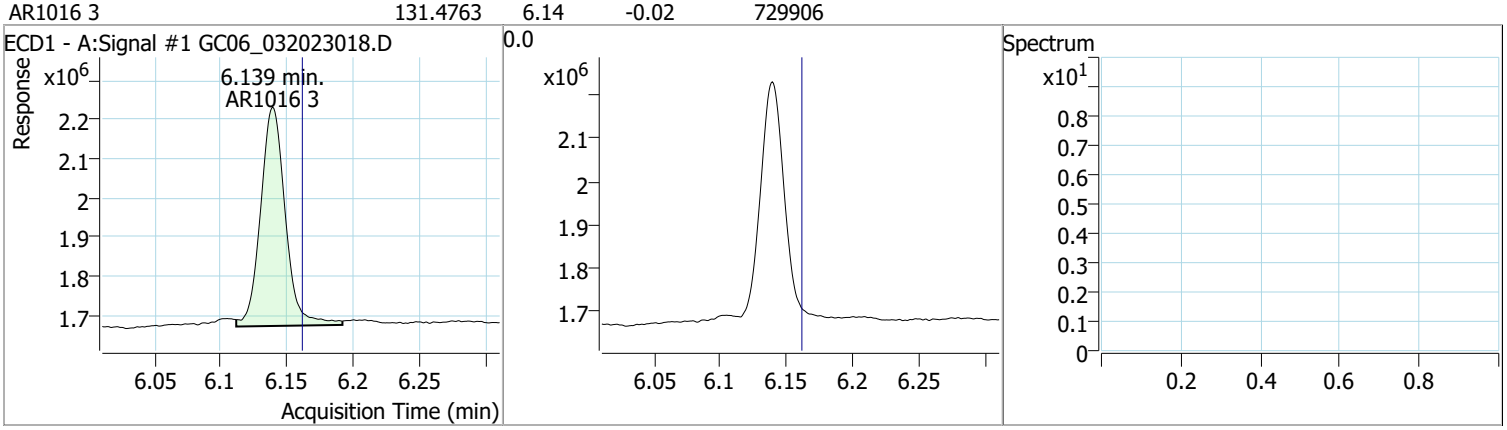
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AR1016 2	0.0000	5.69	-0.01	57884				



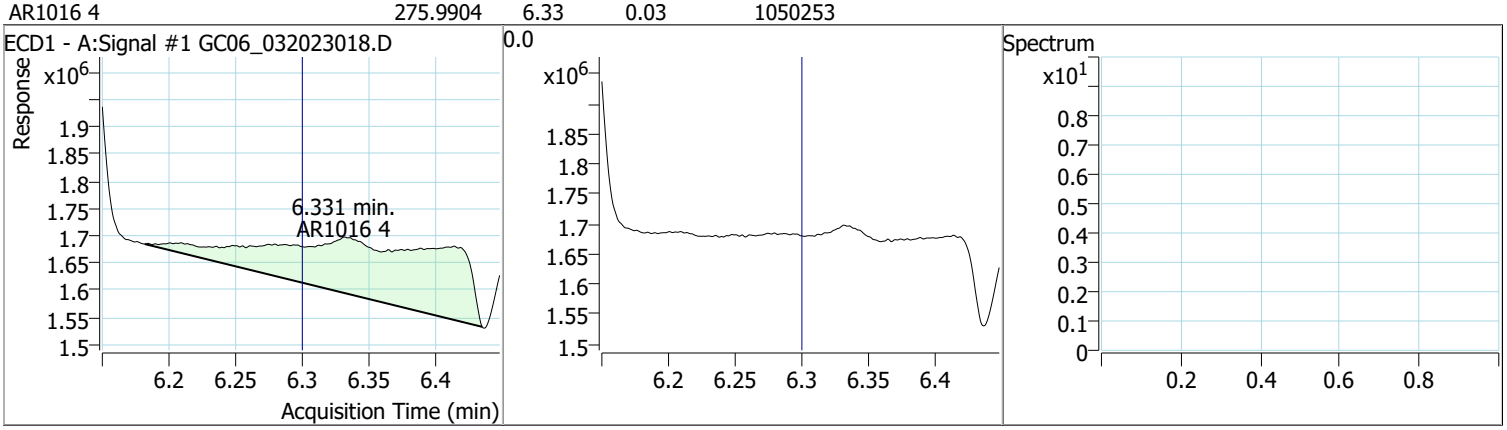
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	78.9997	5.93	0.04	554492				



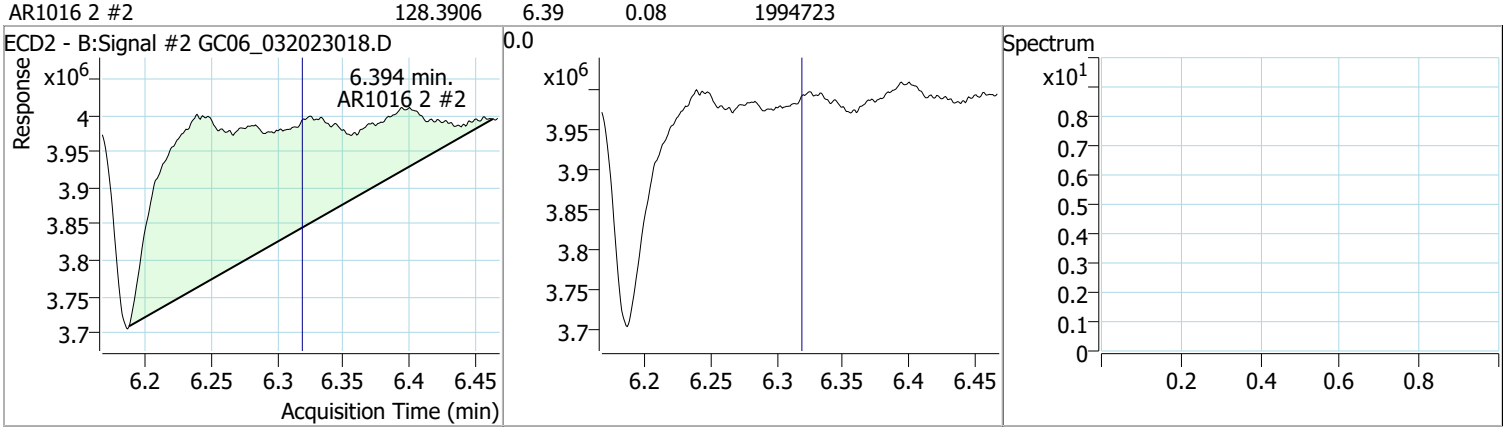
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	131.4763	6.14	-0.02	729906				



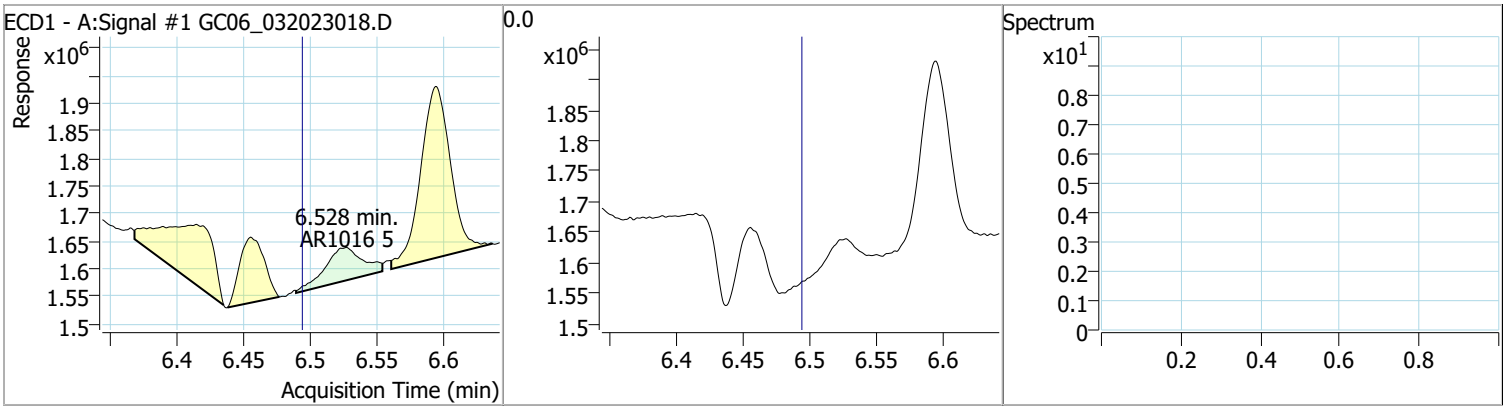
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	275.9904	6.33	0.03	1050253				



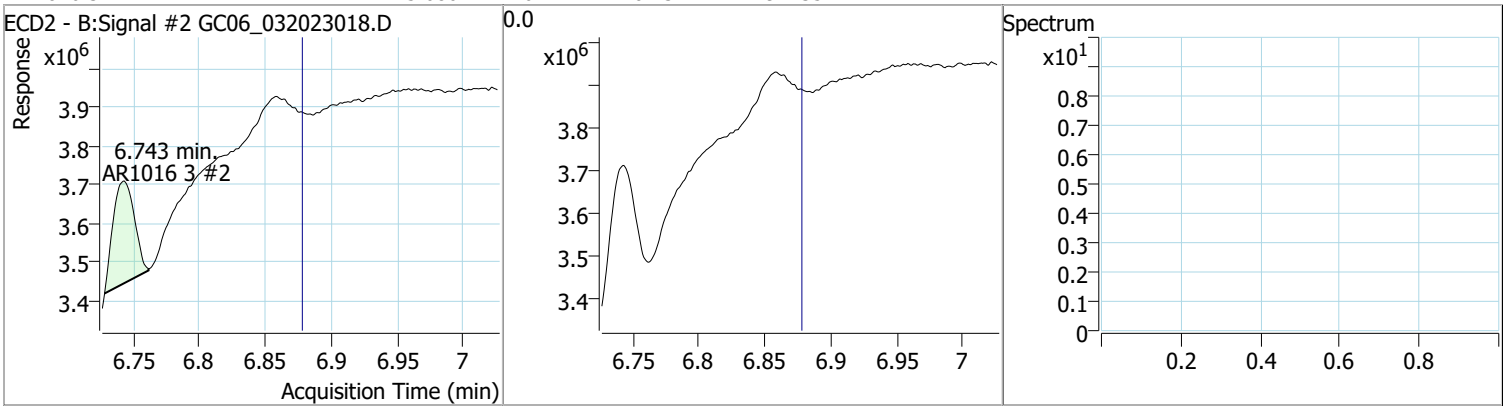
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	128.3906	6.39	0.08	1994723				



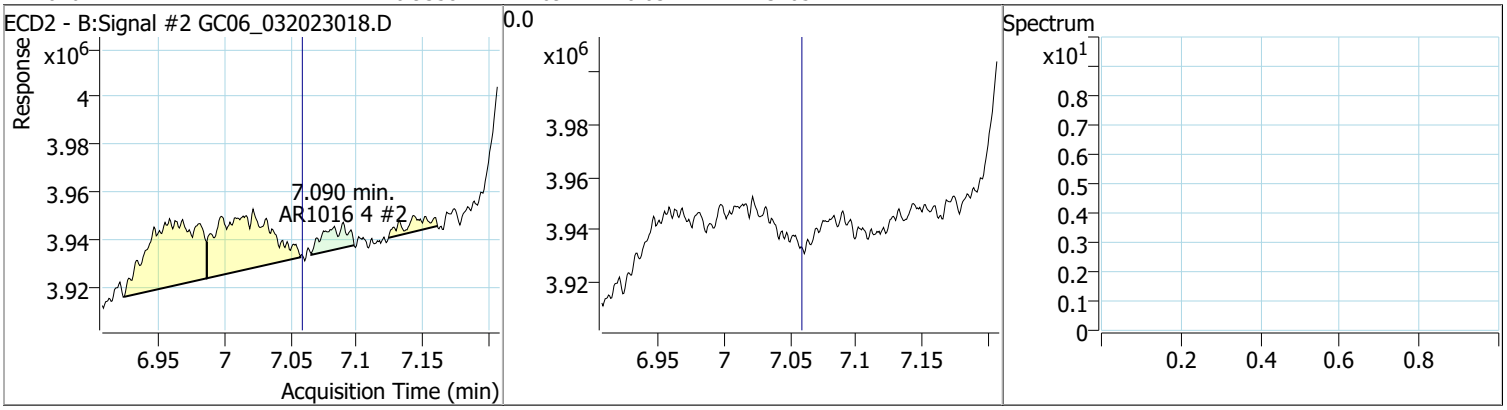
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	55.5279	6.53	0.03	120308				



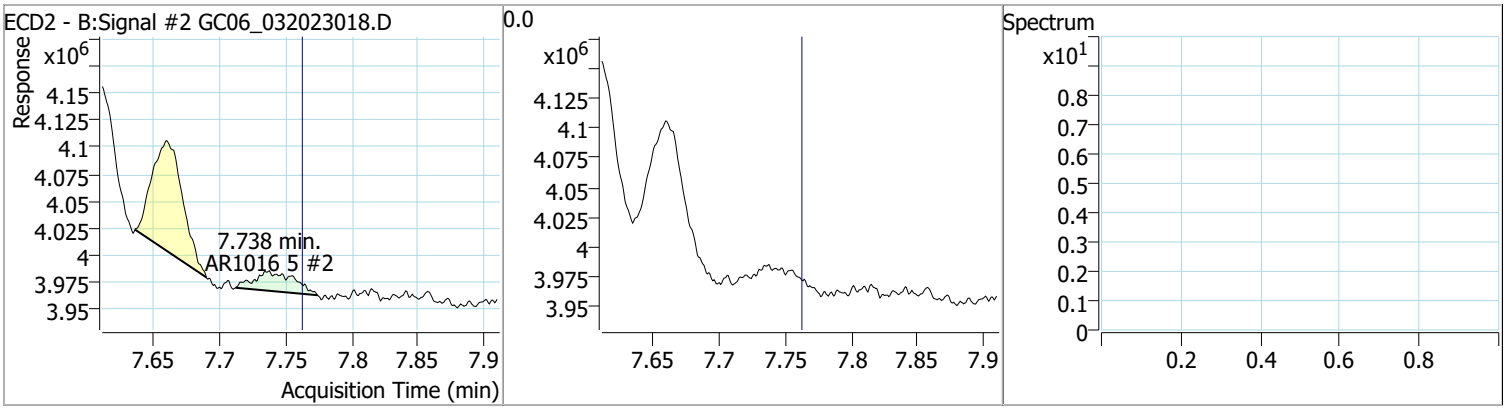
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	15.6867	6.74	-0.13	297435				



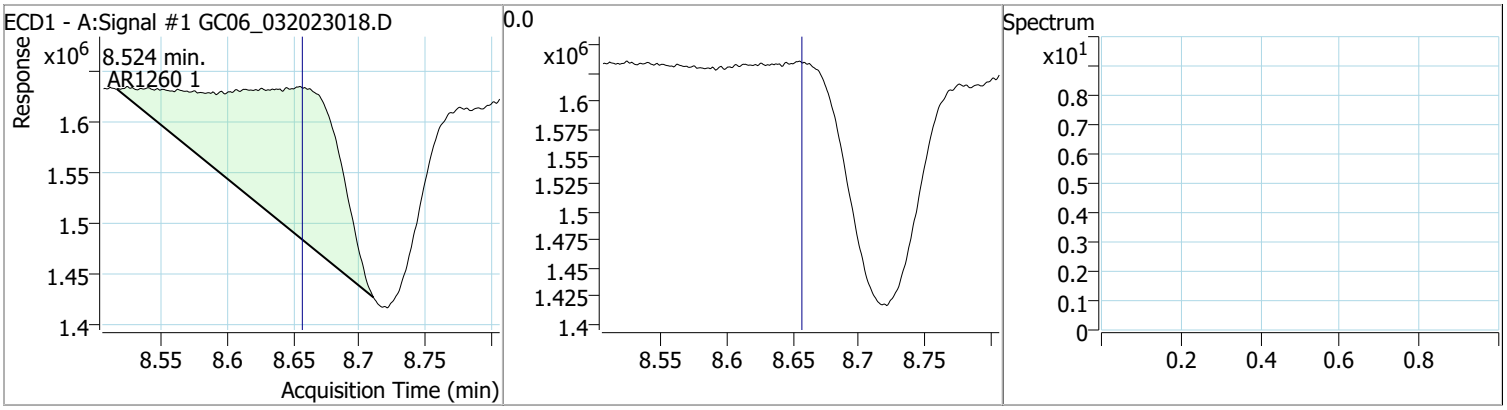
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	0.9358	7.09	0.03	13105				



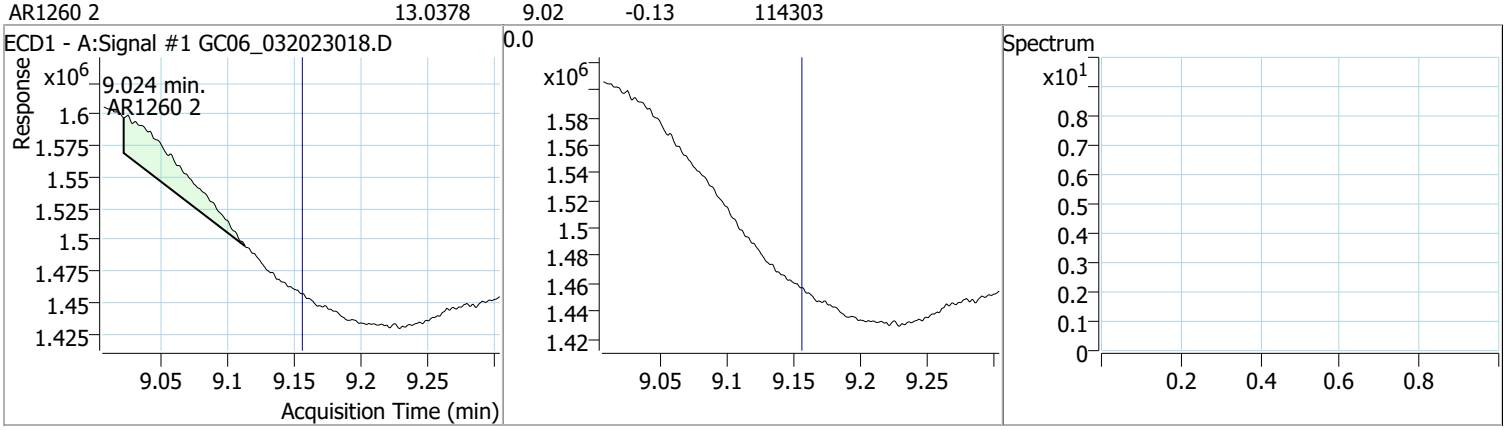
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	3.3841	7.74	-0.02	38532				



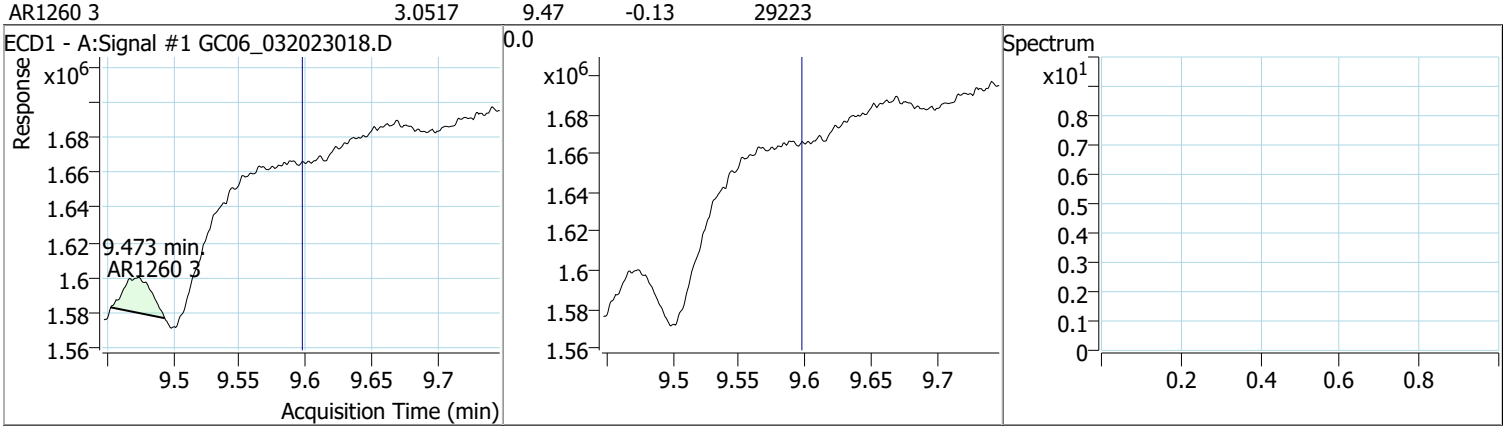
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	138.8421	8.52	-0.13	940299				



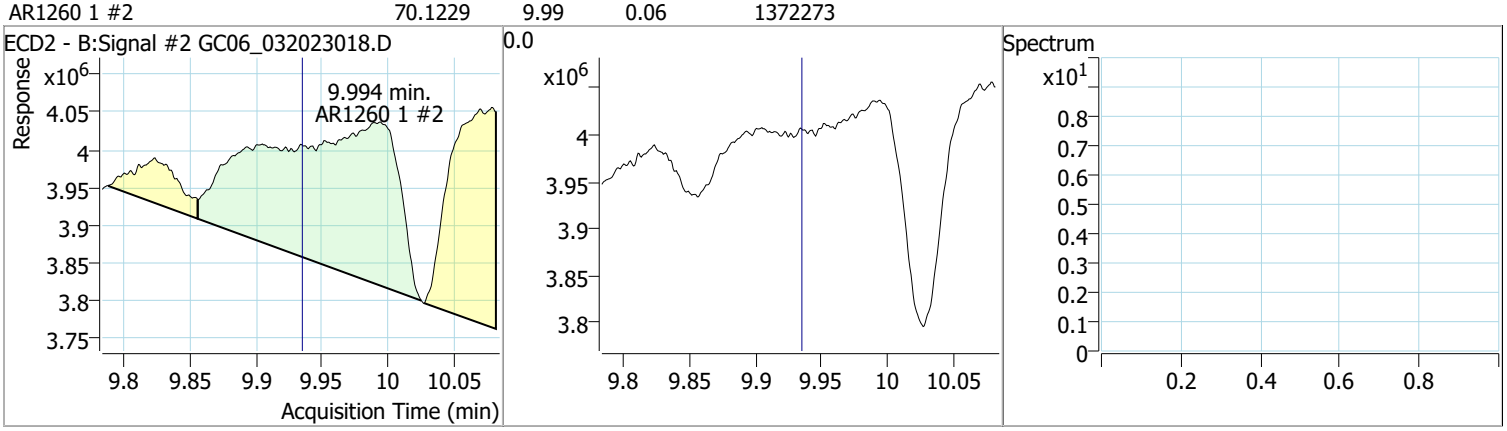
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	13.0378	9.02	-0.13	114303				



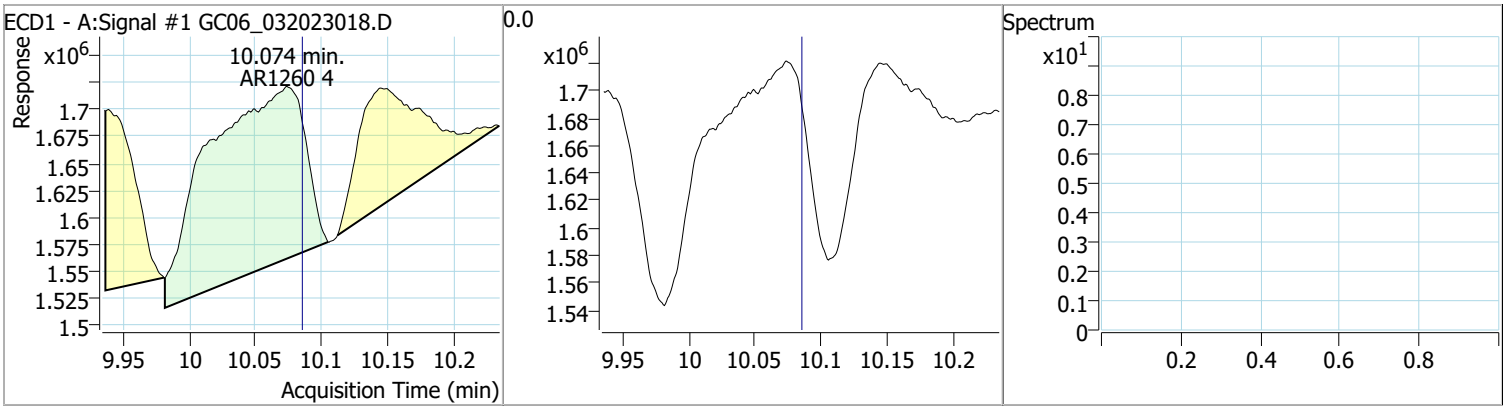
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	3.0517	9.47	-0.13	29223				



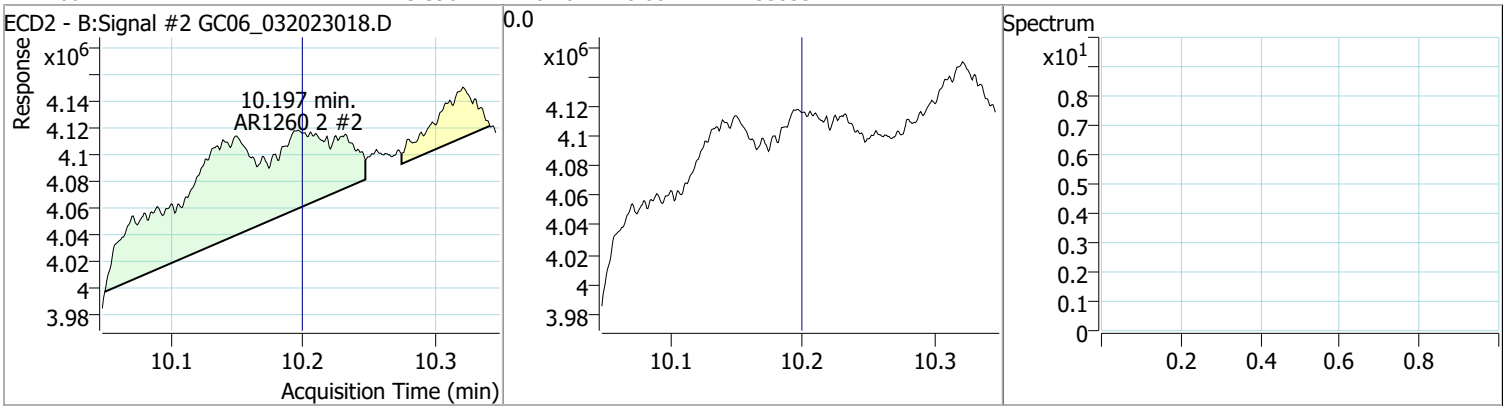
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	70.1229	9.99	0.06	1372273				



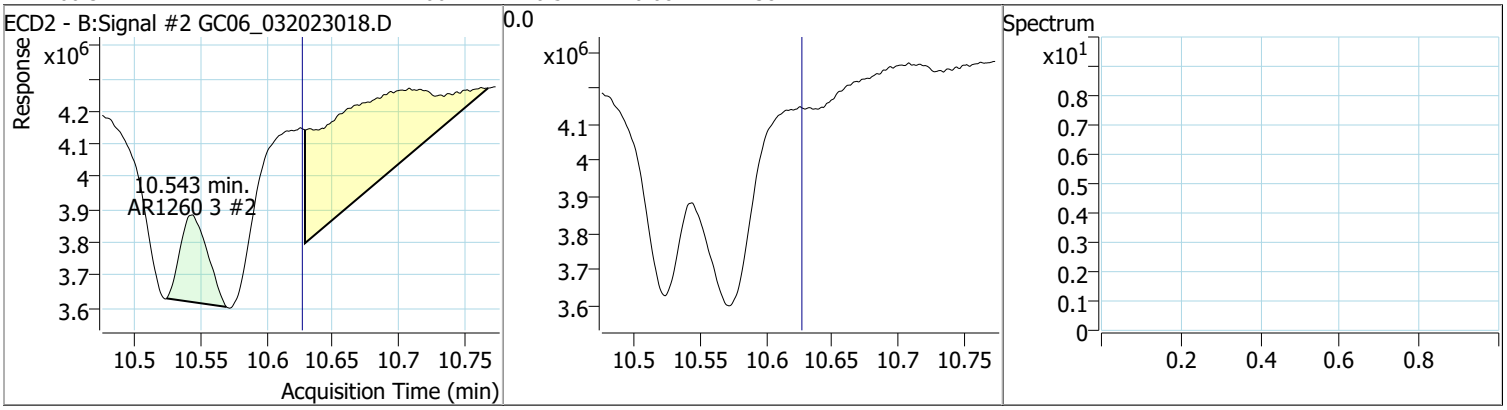
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	152.9273	10.07	-0.01	861483				



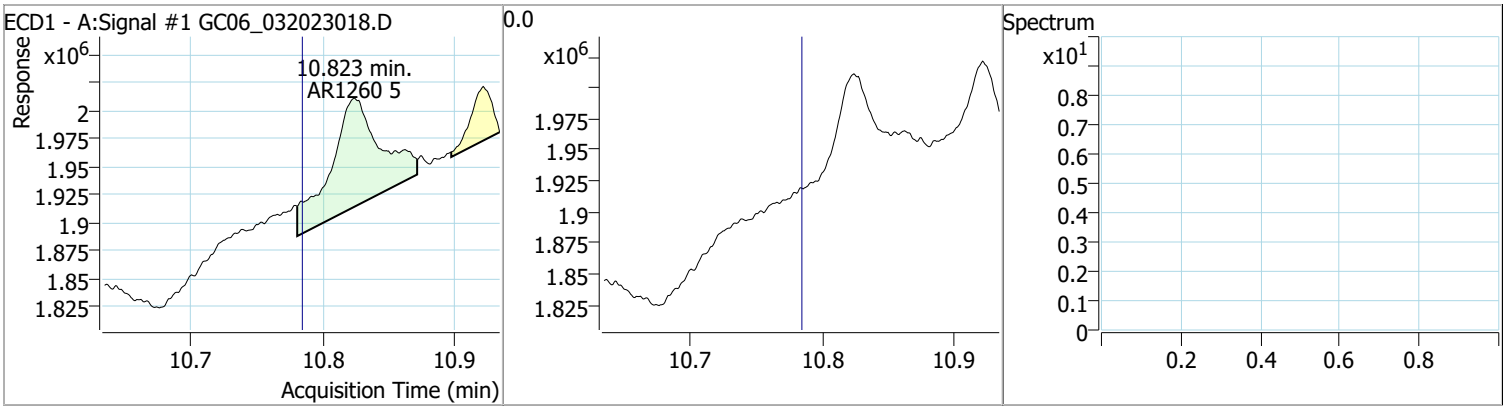
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	23.3962	10.20	0.00	558552				



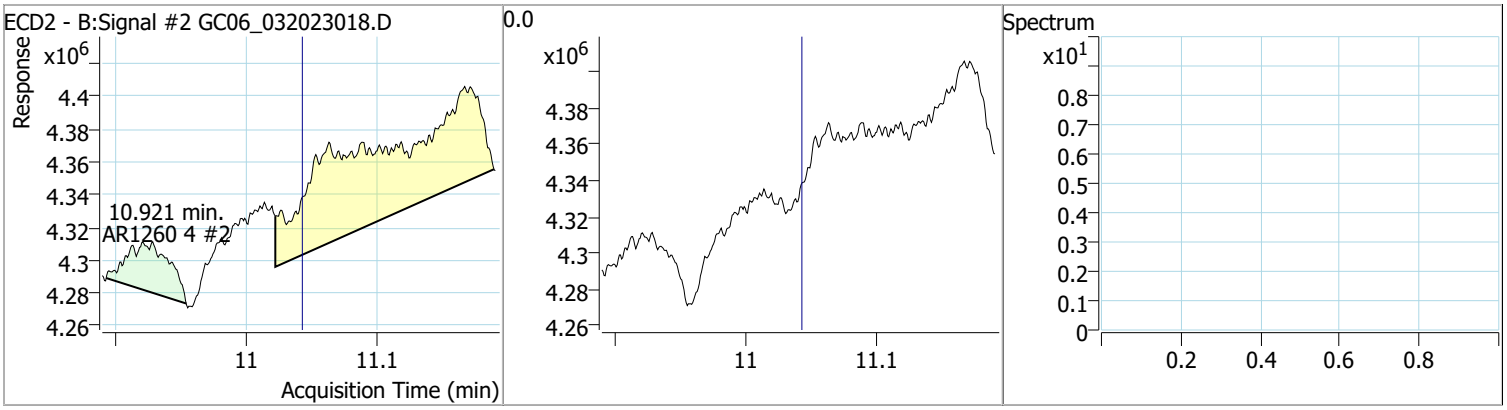
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	12.0627	10.54	-0.08	381771				



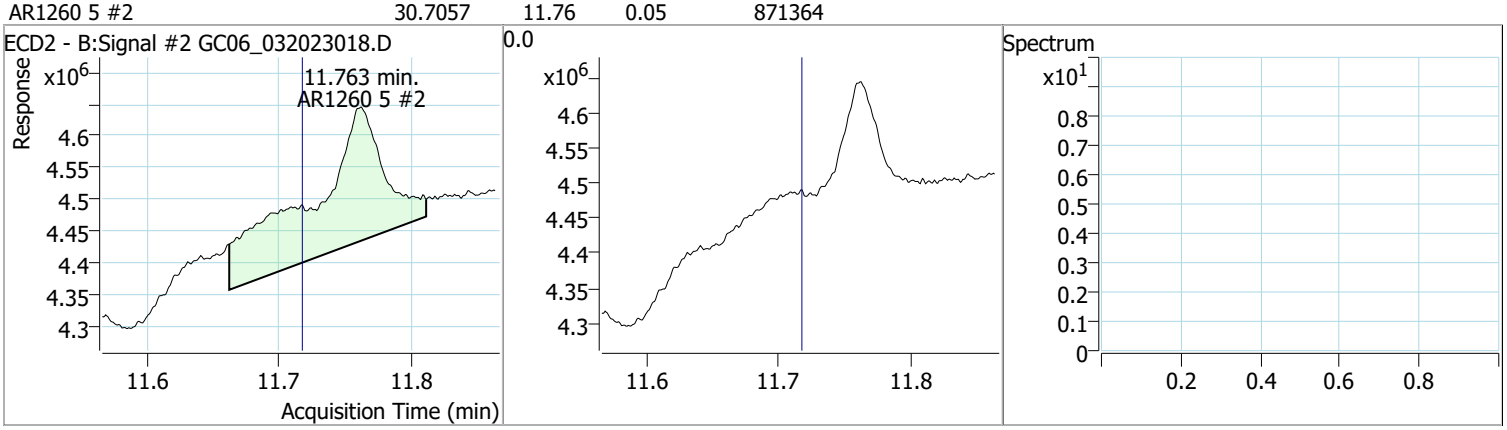
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	42.3930	10.82	0.04	253661				



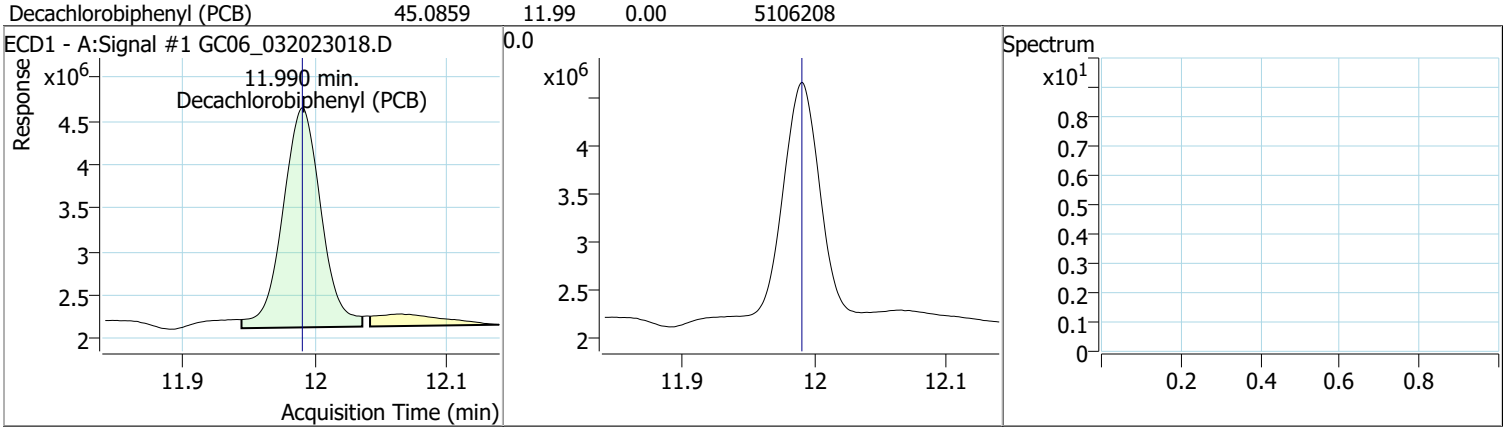
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	3.6508	10.92	-0.12	67682				



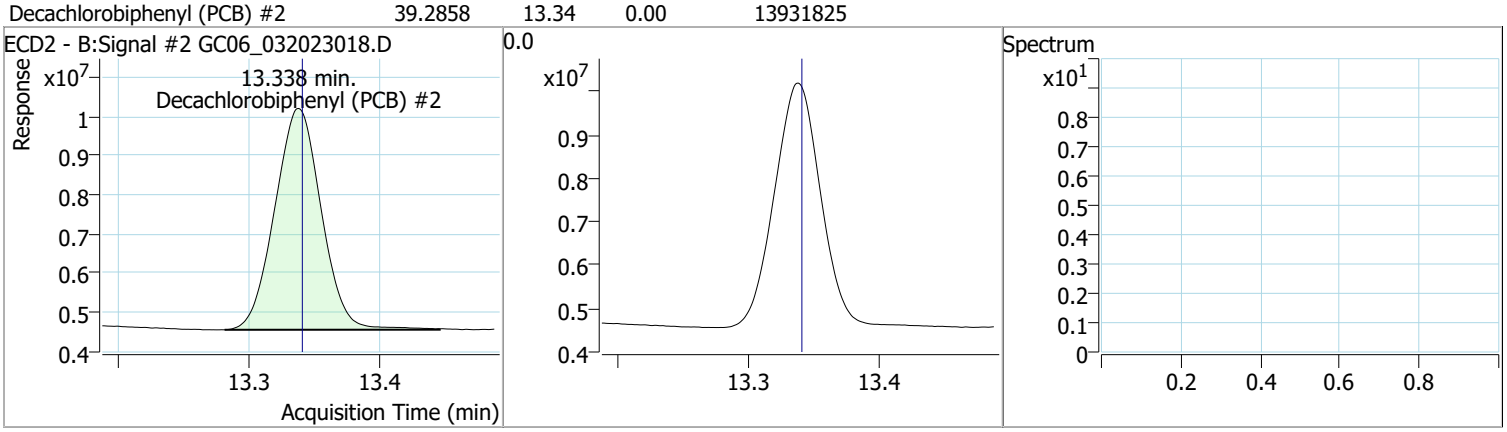
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	30.7057	11.76	0.05	871364				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	45.0859	11.99	0.00	5106208				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	39.2858	13.34	0.00	13931825				



QC Raw Data

ENTHALPY BLANK USER REPORT FOR 481683 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Lab ID:	QC1052911		
Seqnum:	453114337012.1	Matrix:	Wipe		
File:	gc06_032023012	Batch:	310026	Time:	20-MAR-2023 12:38
Cal:	453094313002	Caldate:	06-MAR-2023		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Flags
Aroclor-1016	B	72.33	~~0.72~~ FP	0.30	82%	0.50	x u
Aroclor-1016 Peak # 1	B	130.4	1.30	0.17	154%		
Aroclor-1016 Peak # 2	B	4.349	0.04	ND	-16581%		
Aroclor-1016 Peak # 3	B	225.8	2.26	ND	213%		
Aroclor-1016 Peak # 4	B	0.3650	0.00	0.02	125%		
Aroclor-1016 Peak # 5	B	0.7107	0.01	1.45	198%		
Aroclor-1221	B		ND			0.50	u
Aroclor-1232	B		ND			0.50	u
Aroclor-1242	B		ND			0.50	u
Aroclor-1248	B		ND			0.50	u
Aroclor-1254	B		ND			0.50	u
Aroclor-1260	B	5.386	ND	0.42	154%	0.50	u
Aroclor-1260 Peak # 1	B	17.51	0.18	0.69	119%		
Aroclor-1260 Peak # 2	B	1.022	0.01	0.02	76%		
Aroclor-1260 Peak # 3	B	0.8383	0.01	0.27	188%		
Aroclor-1260 Peak # 4	B	6.435	0.06	0.78	170%		
Aroclor-1260 Peak # 5	B	1.129	0.01	0.31	186%		
Aroclor-1262	B		ND			0.50	u
Aroclor-1268	B		ND			0.50	u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	41.43	0.5000	0.4143	83	19-121	c- u
Decachlorobiphenyl (PCB)	B	46.97	0.5000	0.4697	94	19-121	c- u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_032023004)	Ch	CCV Abund	BLANK Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6794542	6743519	-0.75
1-bromo-2-nitrobenzene (PCB)	A	1772847	1730165	-2.41

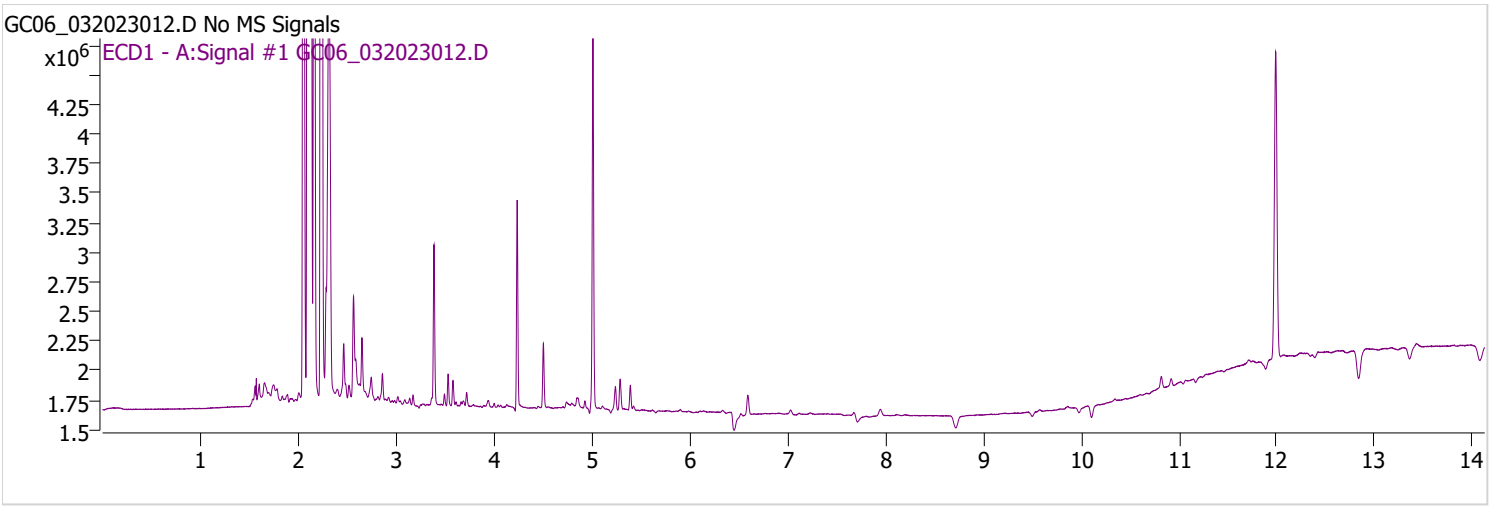
NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

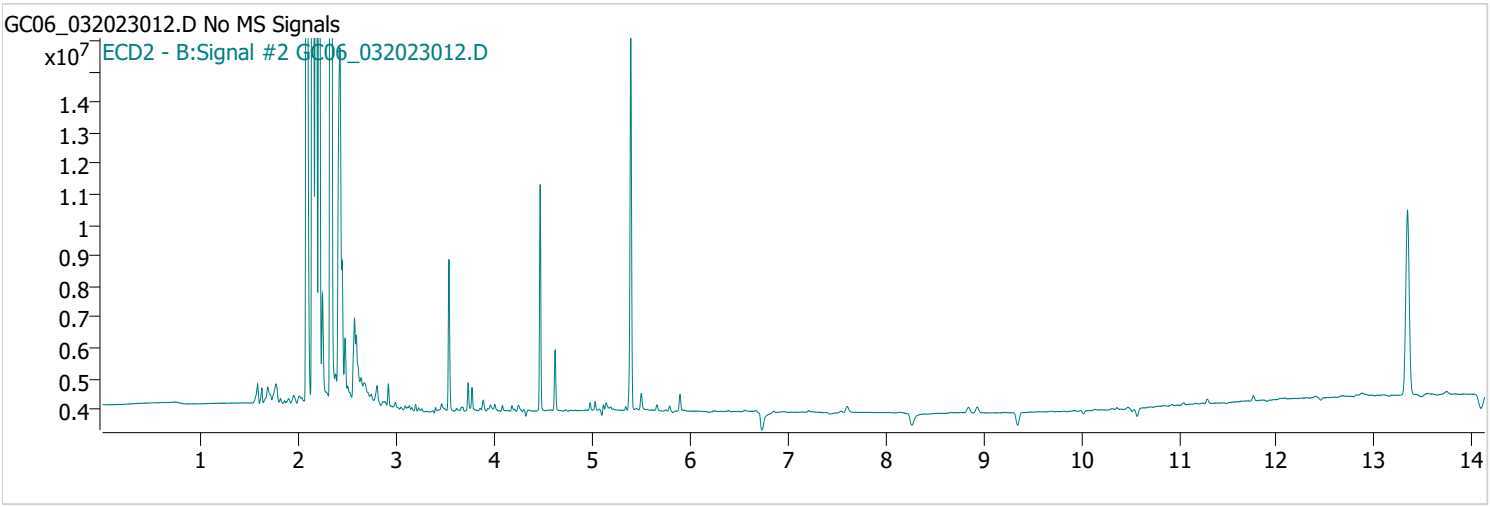
ISTD (CCV gc06_032023004)	Ch	CCV RT	BLANK RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.47	4.47	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.24	4.24	0.00

Analyst: MES 03/21/23 **Reviewer:** LW 03/23/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_032023012.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/20/2023 12:38:34 PM
Sample Name	QC1052911, 310026, 1	Instrument	SVOA-GC06
Vial	1	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_6.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	032023PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



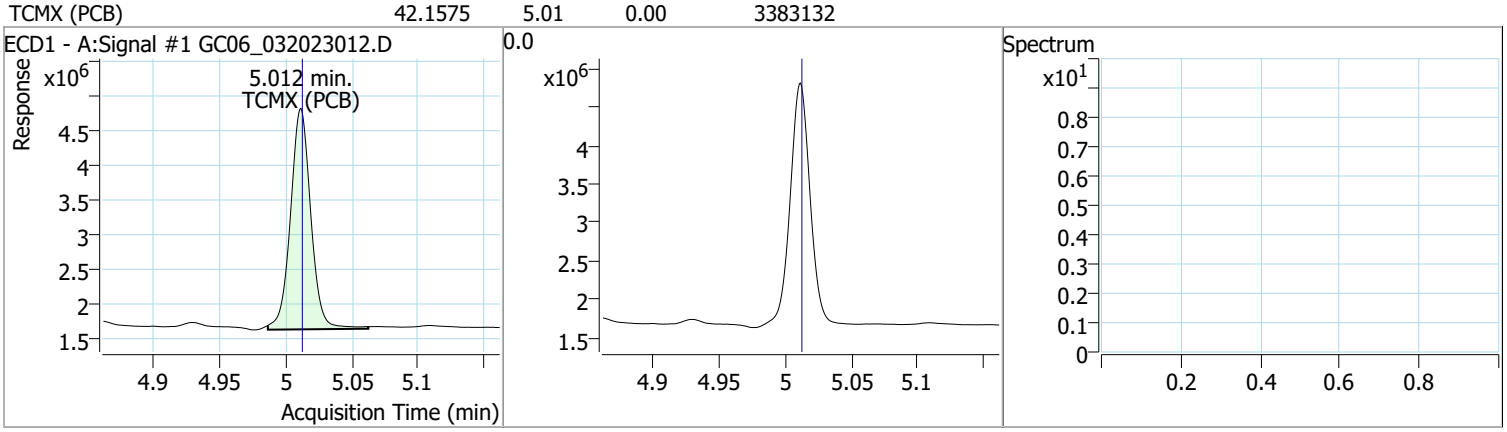


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.238	0.0	1730164.726	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.473	0.0	6743519.311	20.0000	ng/ml		0.001
System Monitoring Compounds							
S TCMX (PCB)	5.012	0.0	3383131.781	42.1575	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 210.79%		*	
S TCMX (PCB) #2	5.398	0.0	13416100.533	41.4259	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 207.13%		*	
S Decachlorobiphenyl (PCB)	11.988	0.0	5136950.356	49.9221	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 249.61%		*	
S Decachlorobiphenyl (PCB) #2	13.336	0.0	15241122.033	46.9755	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 234.88%		*	
Target Compounds							QValue

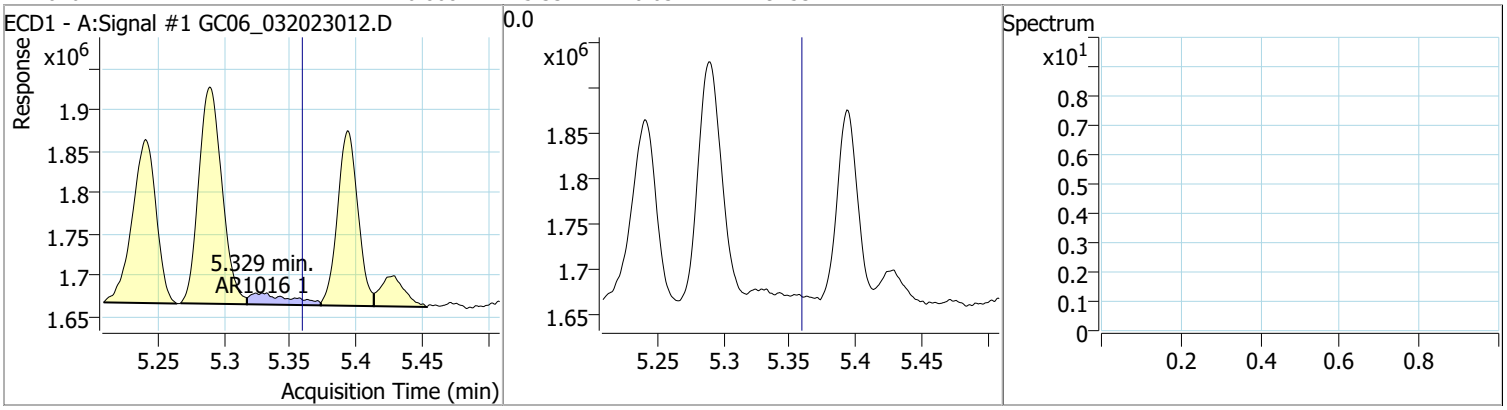
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.329	0.0	29753.150	16.8081	ng/ml	100
T AR1016 2	5.689	0.0	53565.060	0.0000	ng/ml	100
T AR1016 1 #2	5.902	0.0	837355.399	130.3969	ng/ml	100
T AR1016 3	6.142	0.0	36893.453	0.0000	ng/ml	100
T AR1016 4	6.289	0.0	5478.202	1.5845	ng/ml	100
T AR1016 2 #2	6.318	0.0	61812.845	4.3487	ng/ml	100
T AR1016 5	6.423	0.0	285058.372	144.8085	ng/ml	100
T AR1016 3 #2	6.856	0.0	3917265.206	225.8139	ng/ml	100
T AR1016 4 #2	7.078	0.0	4676.863	0.3650	ng/ml	100
T AR1016 5 #2	7.762	0.0	7403.734	0.7107	ng/ml	100
T AR1260 1	8.571	0.0	442794.274	69.1393	ng/ml	100
T AR1260 2	9.224	0.0	18062.454	2.2676	ng/ml	100
T AR1260 3	9.579	0.0	239048.299	27.4756	ng/ml	100
T AR1260 1 #2	9.938	0.0	313458.112	17.5076	ng/ml	100
T AR1260 4	10.066	0.0	399006.164	77.9584	ng/ml	100
T AR1260 2 #2	10.199	0.0	22326.395	1.0222	ng/ml	100
T AR1260 3 #2	10.768	0.0	24272.273	0.8383	ng/ml	100
T AR1260 5	10.819	0.0	170864.663	31.4295	ng/ml	100
T AR1260 4 #2	11.047	0.0	109145.669	6.4350	ng/ml	100
T AR1260 5 #2	11.706	0.0	29318.966	1.1293	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

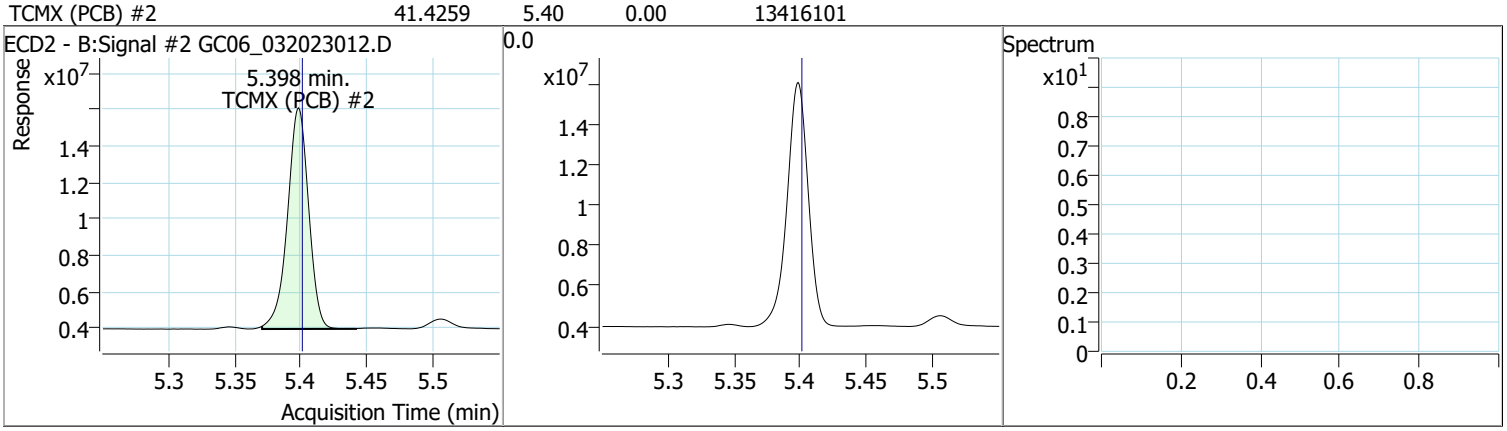
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	42.1575	5.01	0.00	3383132				



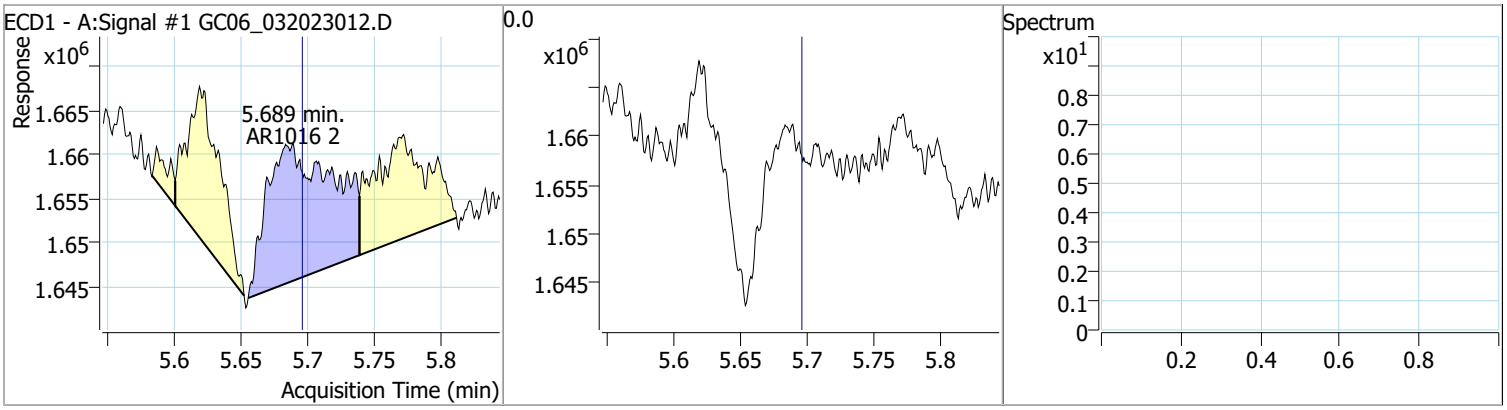
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	16.8081	5.33	-0.03	29753				



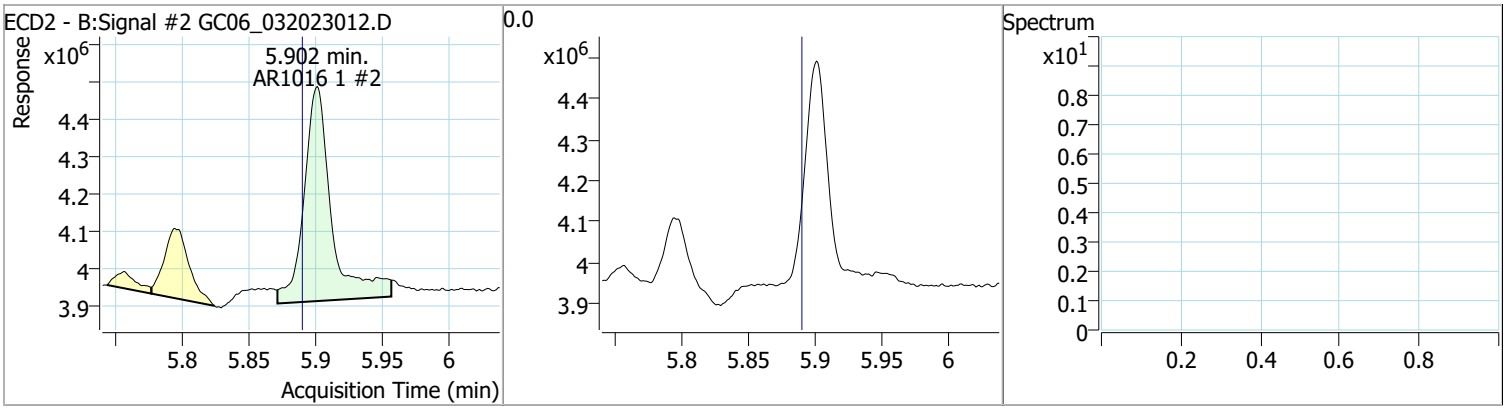
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	41.4259	5.40	0.00	13416101				



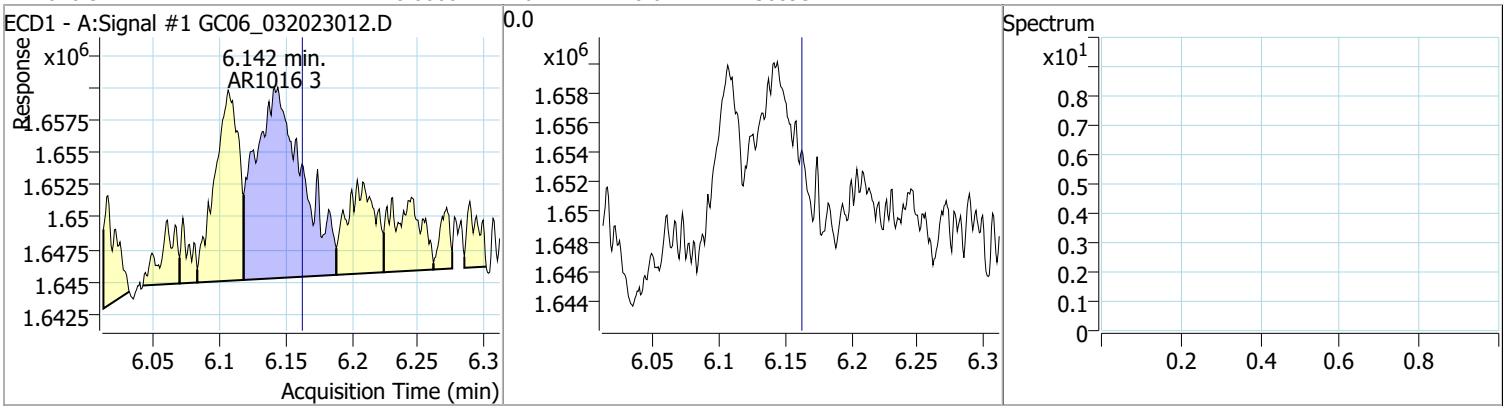
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.69	-0.01	53565				



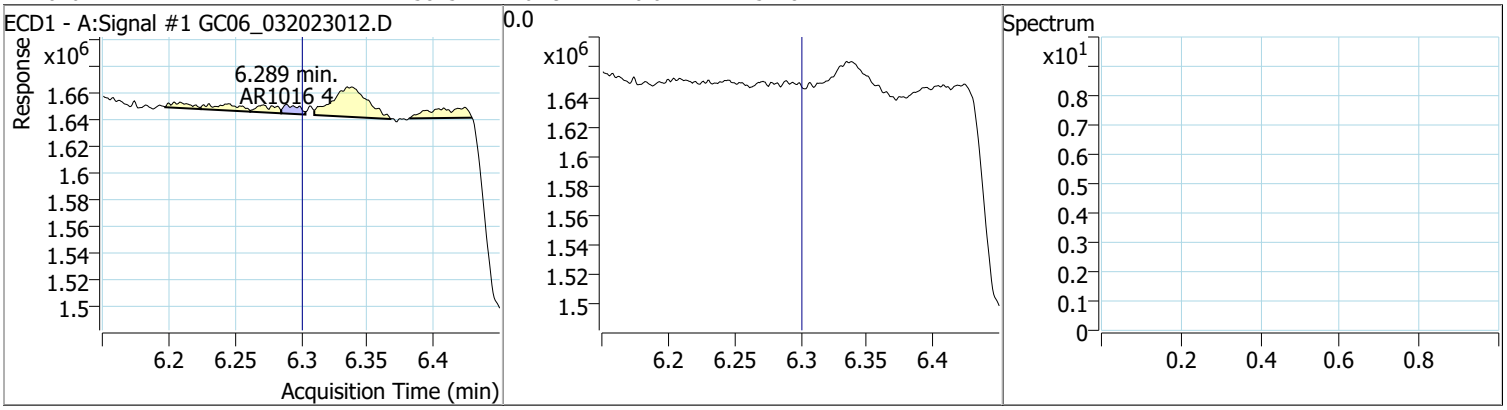
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	130.3969	5.90	0.01	837355				



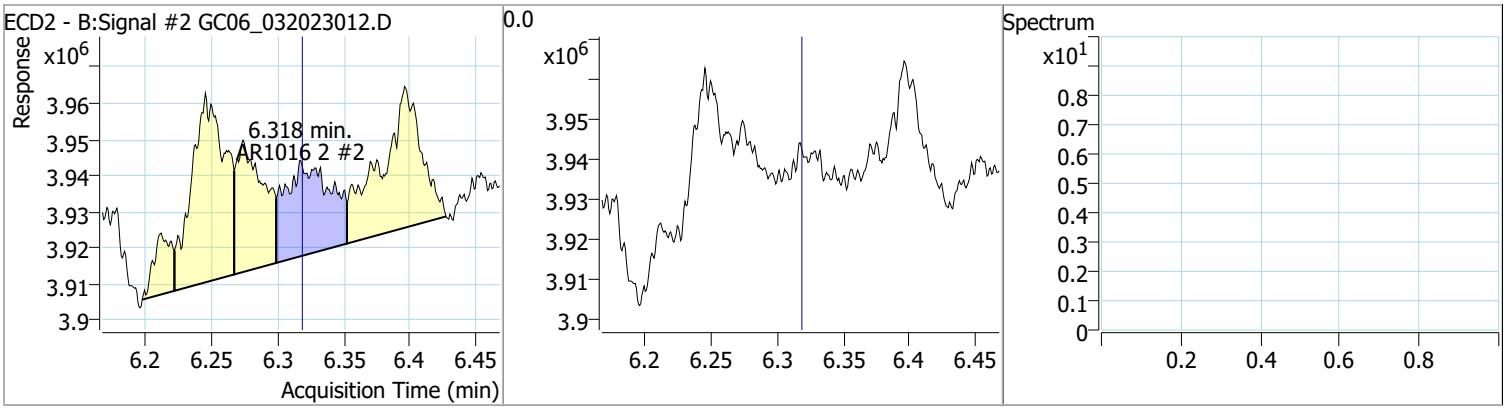
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	0.0000	6.14	-0.02	36893				



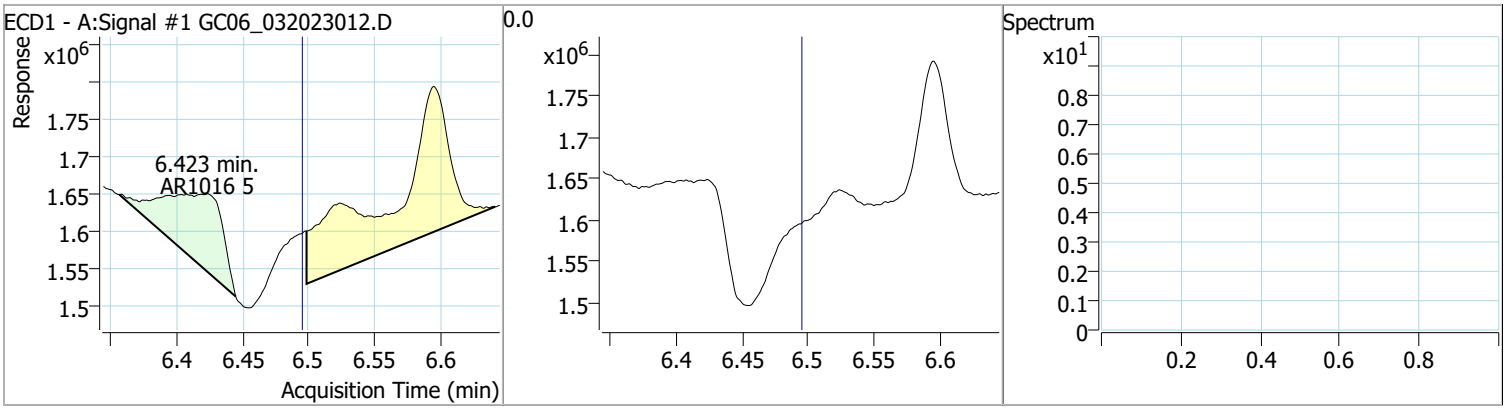
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1.5845	6.29	-0.01	5478				



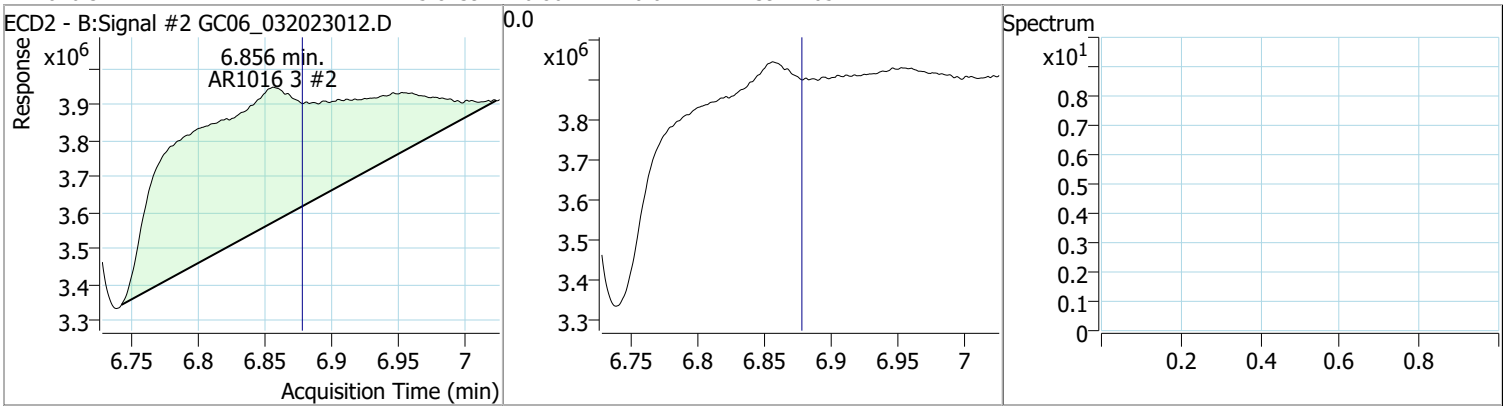
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	4.3487	6.32	0.00	61813				



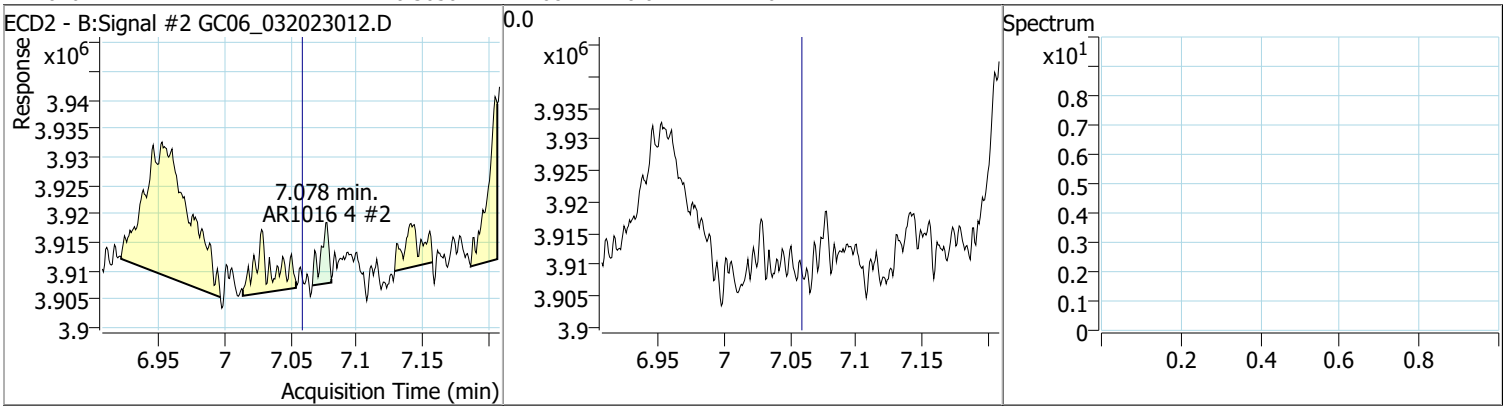
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	144.8085	6.42	-0.07	285058				



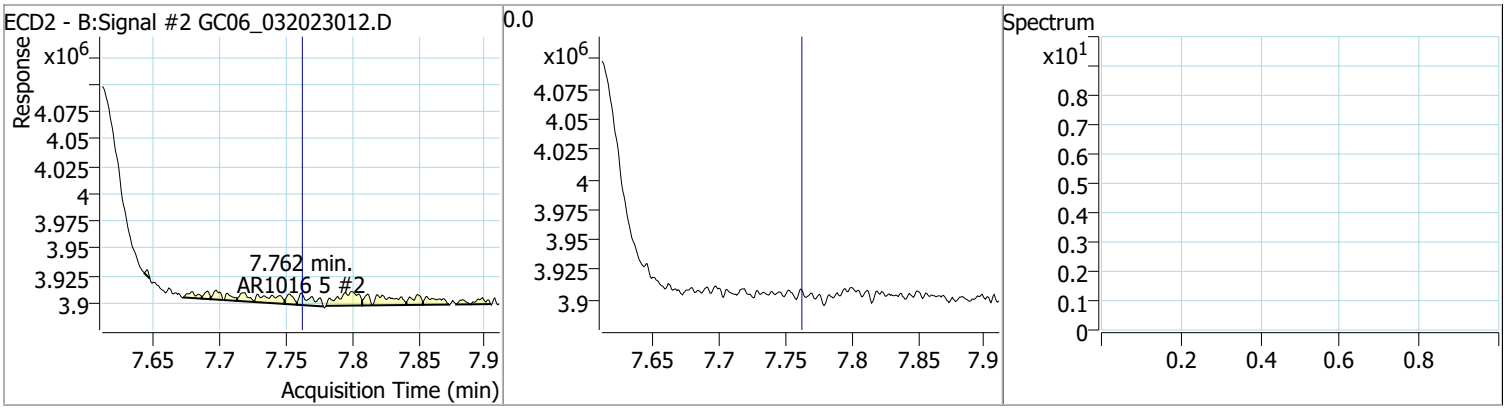
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	225.8139	6.86	-0.02	3917265				



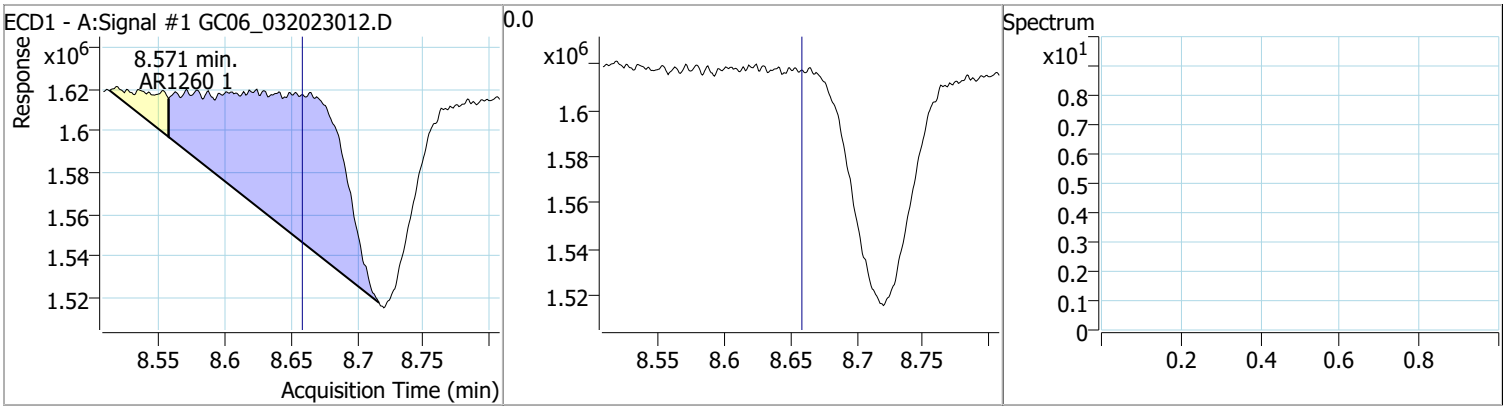
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	0.3650	7.08	0.02	4677				



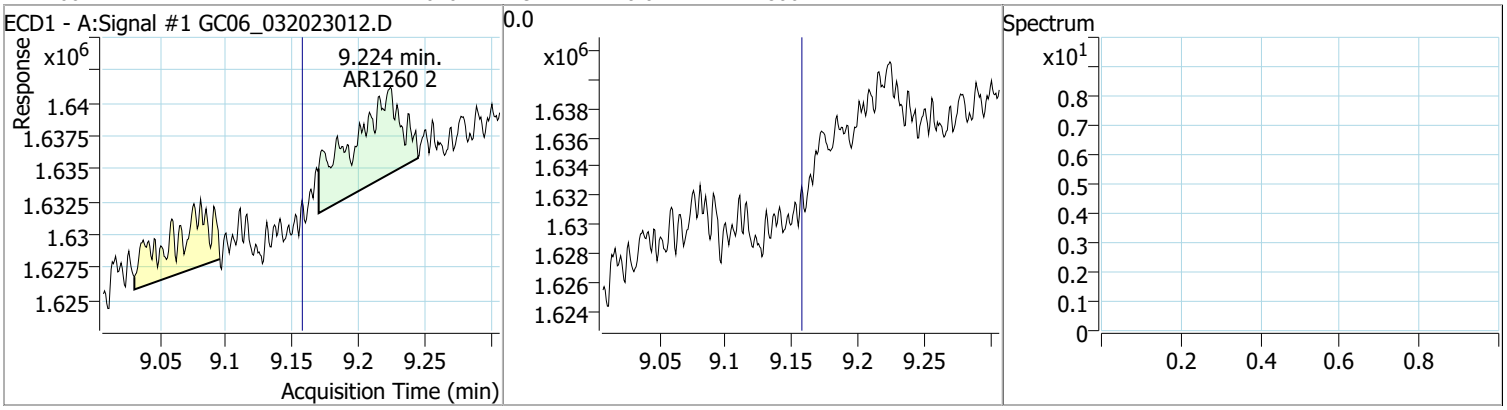
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	0.7107	7.76	0.00	7404				



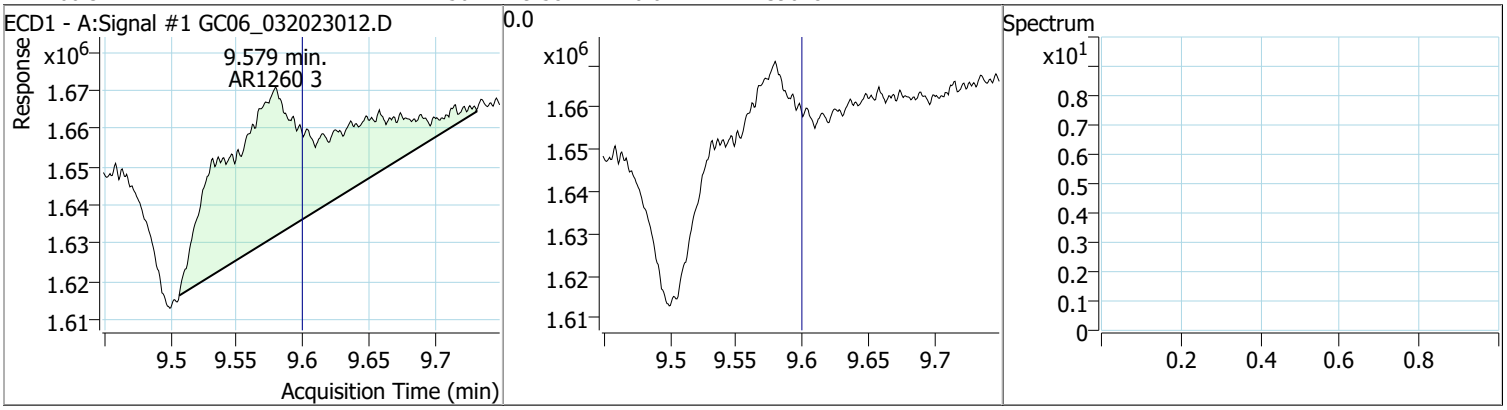
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	69.1393	8.57	-0.09	442794				



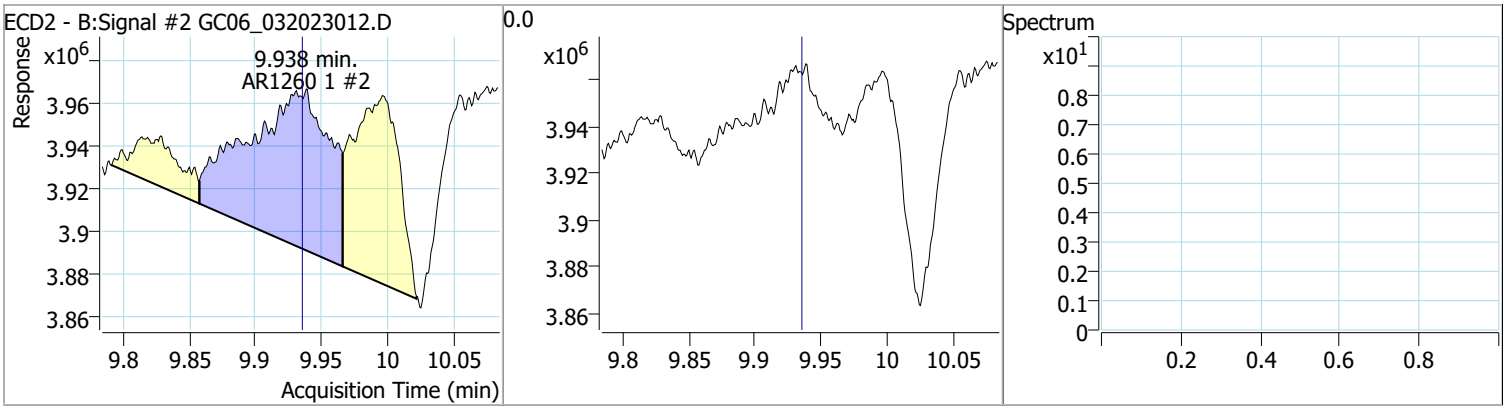
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	2.2676	9.22	0.07	18062				



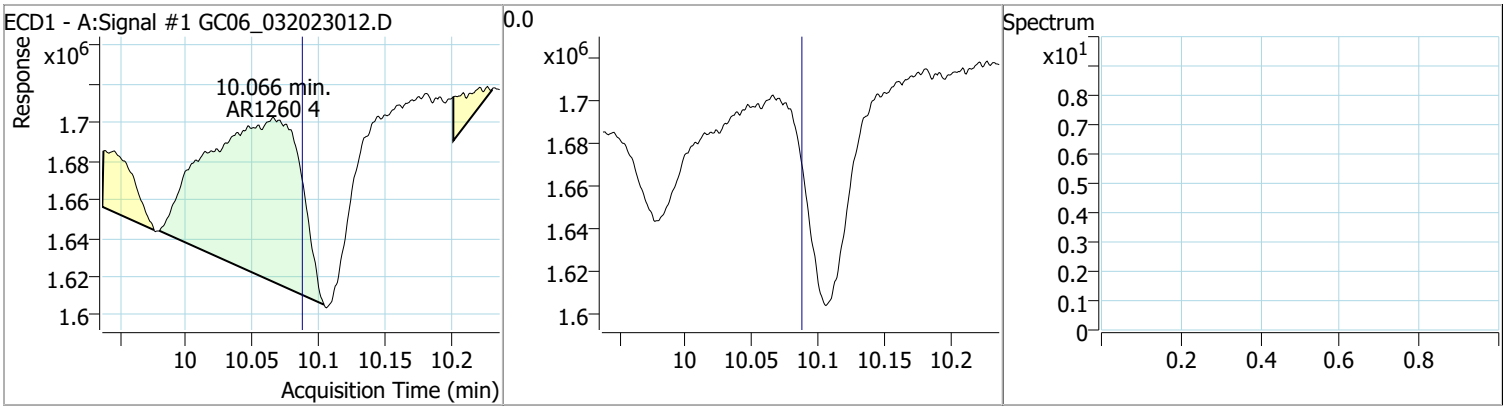
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	27.4756	9.58	-0.02	239048				



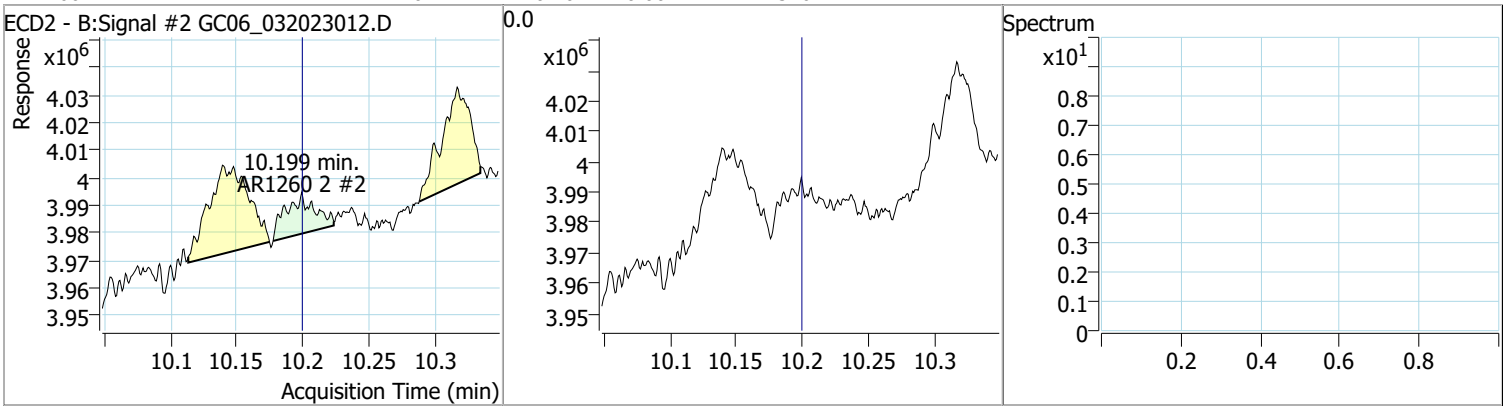
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	17.5076	9.94	0.01	313458				



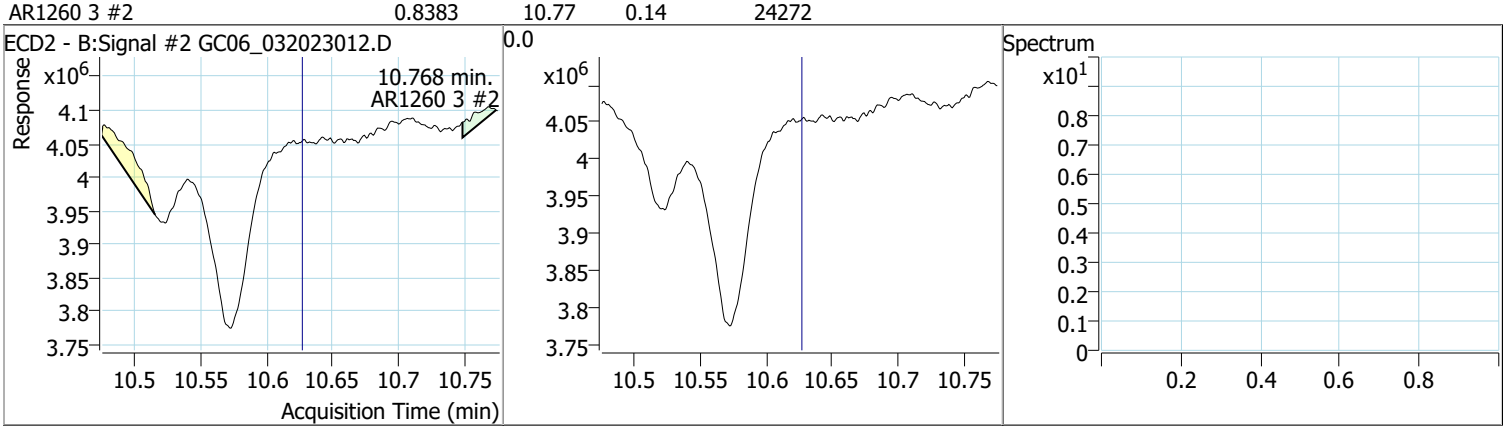
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	77.9584	10.07	-0.02	399006				



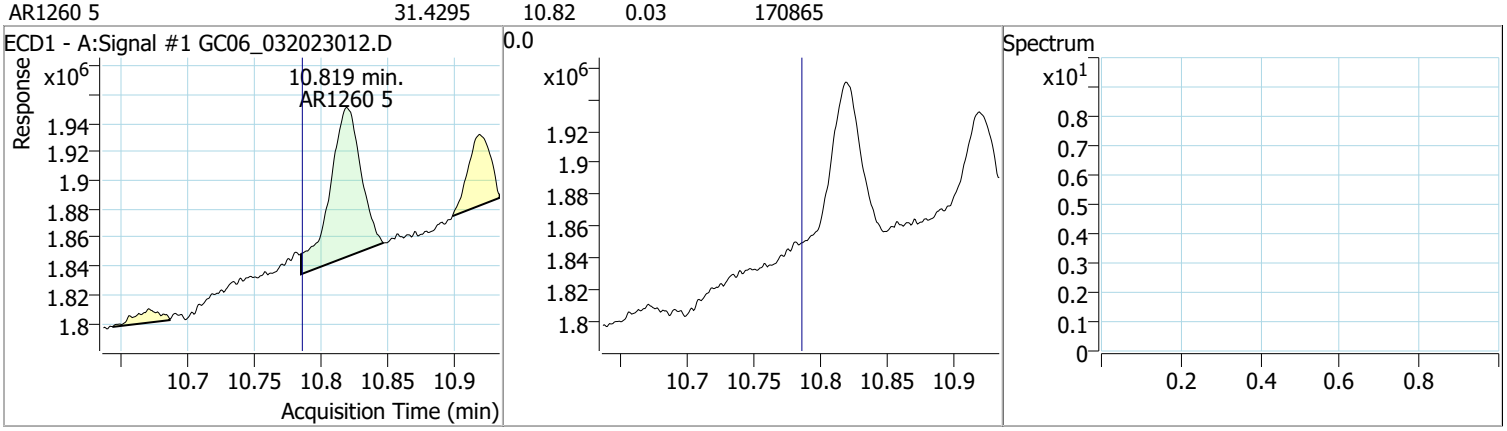
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	1.0222	10.20	0.00	22326				



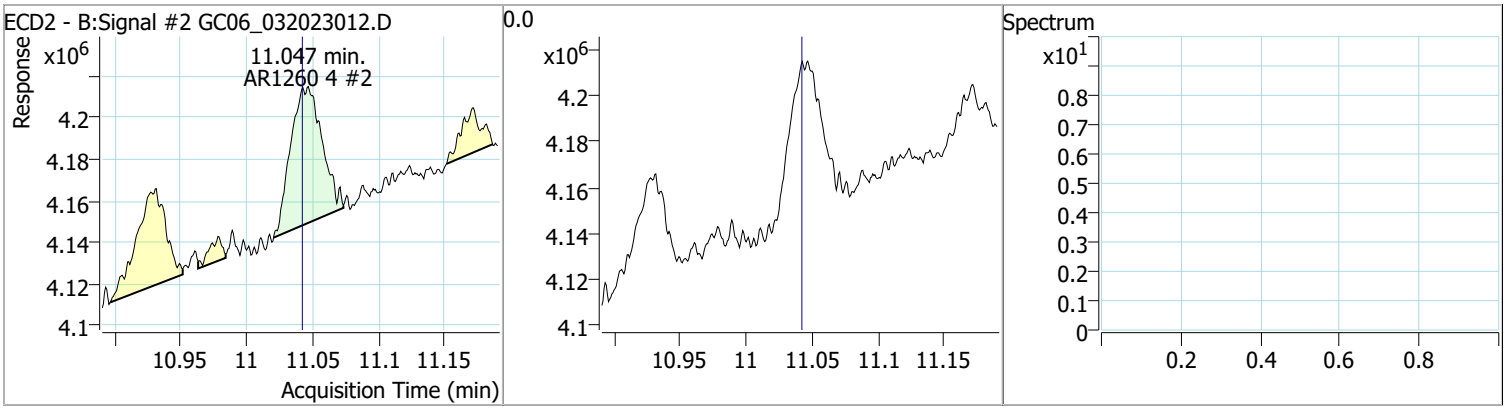
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	0.8383	10.77	0.14	24272				



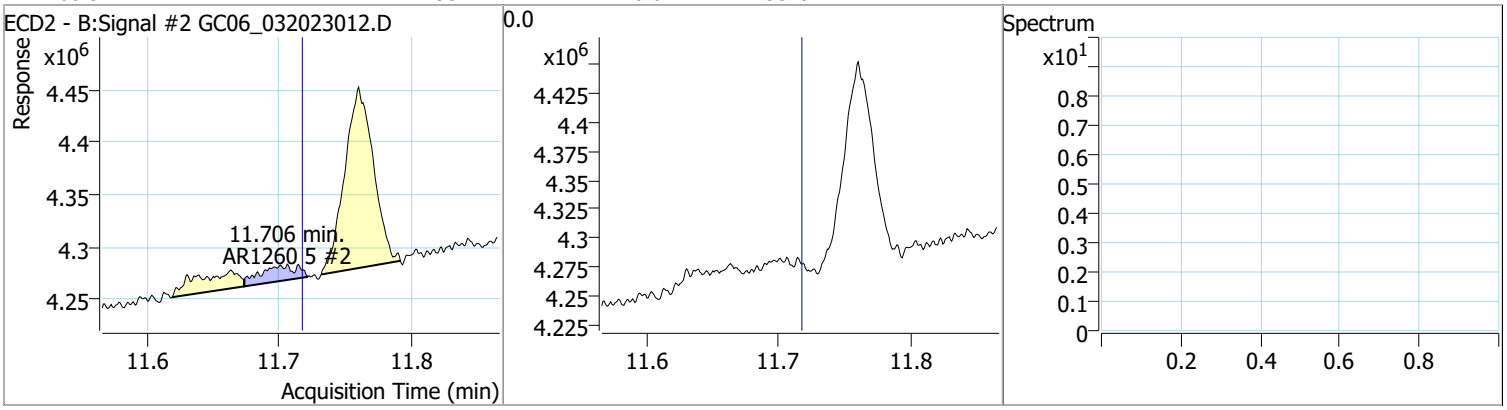
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	31.4295	10.82	0.03	170865				



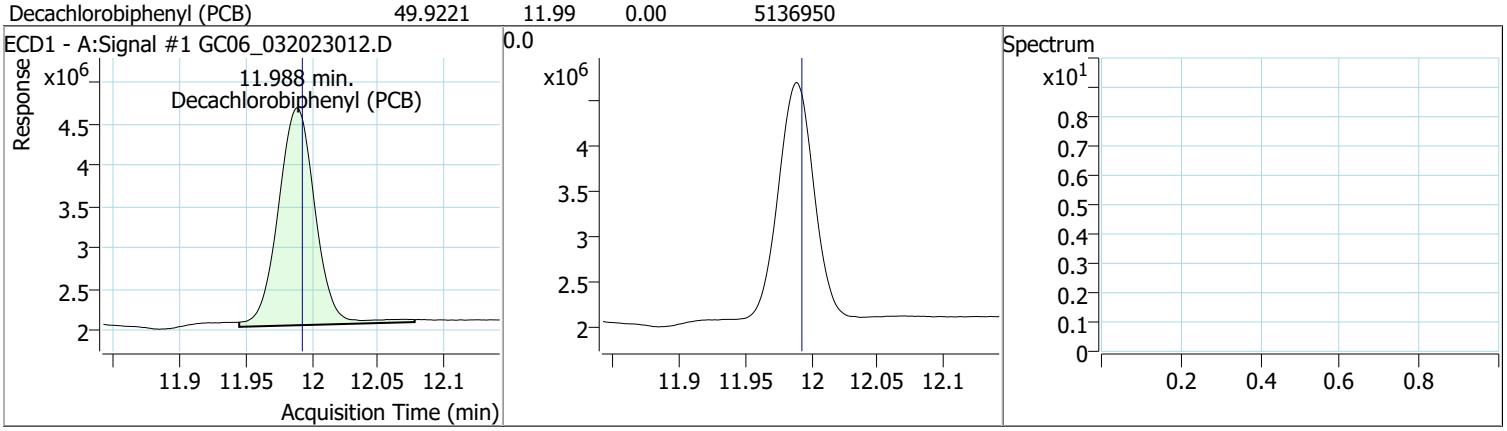
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	6.4350	11.05	0.01	109146				



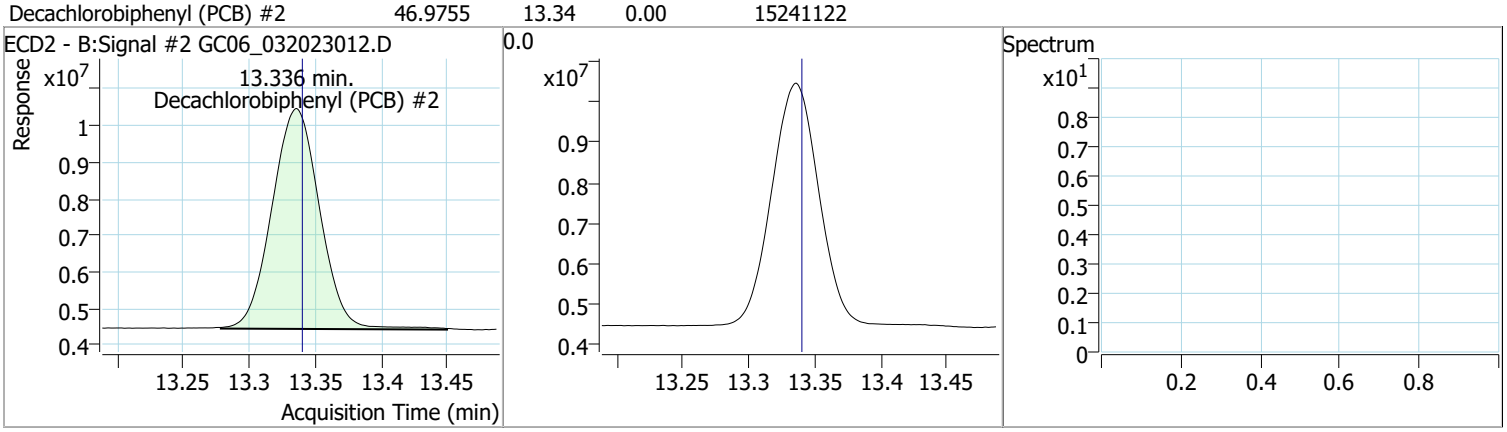
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	1.1293	11.71	-0.01	29319				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	49.9221	11.99	0.00	5136950				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	46.9755	13.34	0.00	15241122				



ENTHALPY SPIKE USER REPORT FOR 481683 PCBS Wipe

EPA 8082

Type:	BS	Type:	BSD
Inst:	SVOA-GC06	Inst:	SVOA-GC06
Seqnum:	453114337013.1	Seqnum:	453114337014.1
File:	gc06_032023013	File:	gc06_032023014
IDF:	1.0	IDF:	1.0
Lab ID:	QC1052912	Lab ID:	QC1052913
Matrix:	Wipe	Matrix:	Wipe
Batch:	310026	Batch:	310026
Time:	20-MAR-2023 12:56	Time:	20-MAR-2023 13:15
Cal:	453094313002	Cal:	453094313002
Units:	ug/dm2		

- BS: 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF
- BSD: 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Aroclor-1016	5.000	455.8	4.558	B	91	439.7	4.397	B	88	60-140	4	20	u
Aroclor-1016 Peak # 1		534.9	5.349	B		447.2	4.472	B					
Aroclor-1016 Peak # 2		432.7	4.327	B		432.5	4.325	B					
Aroclor-1016 Peak # 3		457.5	4.575	B		462.1	4.621	B					
Aroclor-1016 Peak # 4		420.9	4.209	B		421.2	4.212	B					
Aroclor-1016 Peak # 5		433.2	4.332	B		435.6	4.356	B					
Aroclor-1260	5.000	419.4	4.194	B	84	409.7	4.097	B	82	60-140	2	20	u
Aroclor-1260 Peak # 1		445.1	4.451	B		438.2	4.382	B					
Aroclor-1260 Peak # 2		429.1	4.291	B		423.2	4.232	B					
Aroclor-1260 Peak # 3		412.1	4.121	B		397.7	3.977	B					
Aroclor-1260 Peak # 4		416.4	4.164	B		404.7	4.047	B					
Aroclor-1260 Peak # 5		394.4	3.944	B		384.9	3.849	B					
Surrogates													
TCMX (PCB)	0.5000	41.33	0.4133	B	83	41.04	0.4104	B	82	19-121			c- u
Decachlorobiphenyl (PCB)	0.5000	43.62	0.4362	B	87	43.15	0.4315	B	86	19-121			c- u

ISTD (CCV gc06_032023004)	Ch	CCV Abund	BS Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6794542	6868600	1.09
1-bromo-2-nitrobenzene (PCB)	A	1772847	1769615	-0.18

ISTD (CCV gc06_032023004)	Ch	CCV RT	BS RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.47	4.47	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.24	4.24	0.00

ISTD (CCV gc06_032023004)	Ch	CCV Abund	BSD Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6794542	6915405	1.78
1-bromo-2-nitrobenzene (PCB)	A	1772847	1765581	-0.41

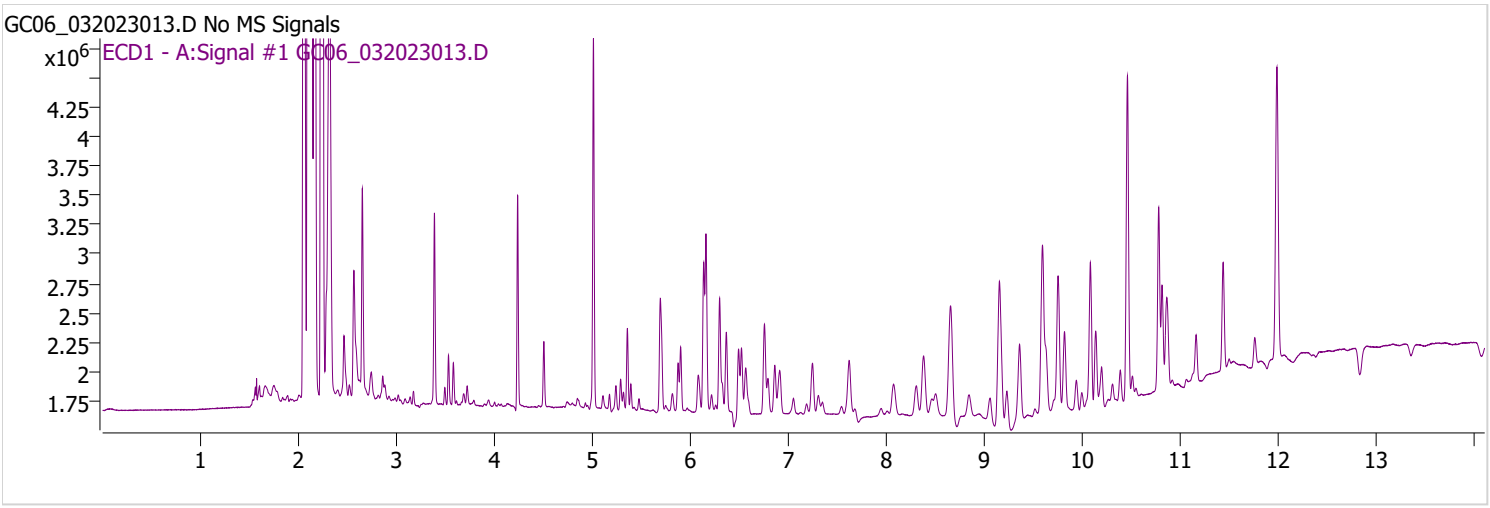
ISTD (CCV gc06_032023004)	Ch	CCV RT	BSD RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.47	4.47	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.24	4.24	0.00

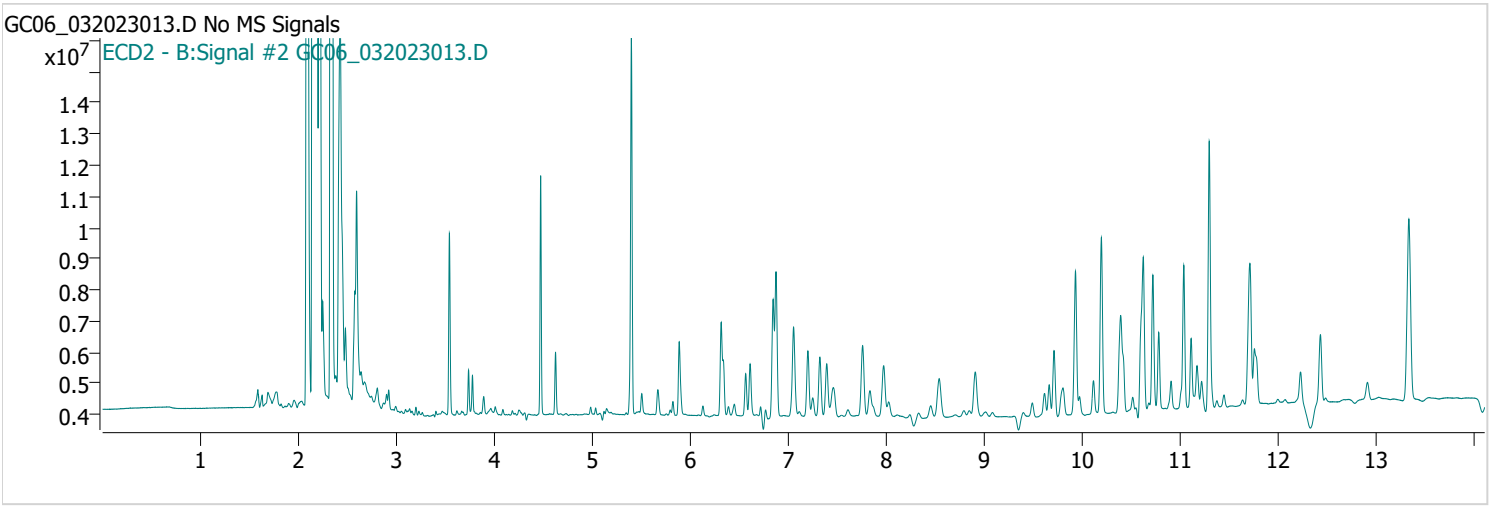
-=low bias c=CCV u=use

Analyst: MES 03/21/23 **Reviewer:** LW 03/23/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_032023013.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/20/2023 12:56:55 PM
Sample Name	QC1052912, 310026, 1	Instrument	SVOA-GC06
Vial	2	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_6.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	032023PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



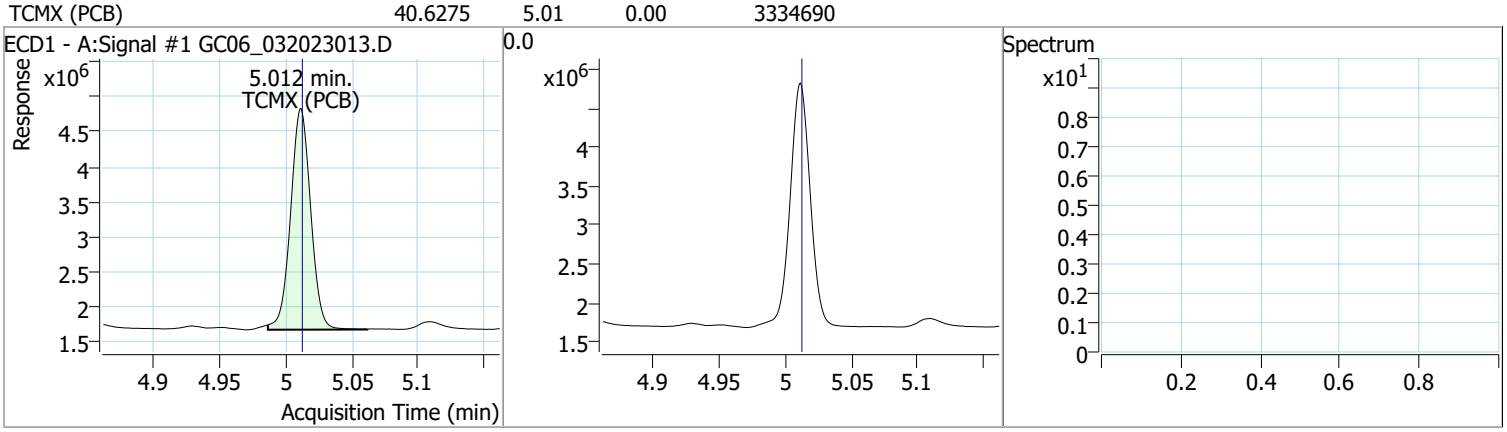


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.238	0.0	1769615.034	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.473	0.0	6868600.395	20.0000	ng/ml		0.001
System Monitoring Compounds							
S TCMX (PCB)	5.012	0.0	3334690.470	40.6275	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 203.14%		*	
S TCMX (PCB) #2	5.398	0.0	13633341.919	41.3301	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 206.65%		*	
S Decachlorobiphenyl (PCB)	11.989	0.0	5130577.618	48.7486	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 243.74%		*	
S Decachlorobiphenyl (PCB) #2	13.336	0.0	14413743.085	43.6164	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 218.08%		*	
Target Compounds							QValue

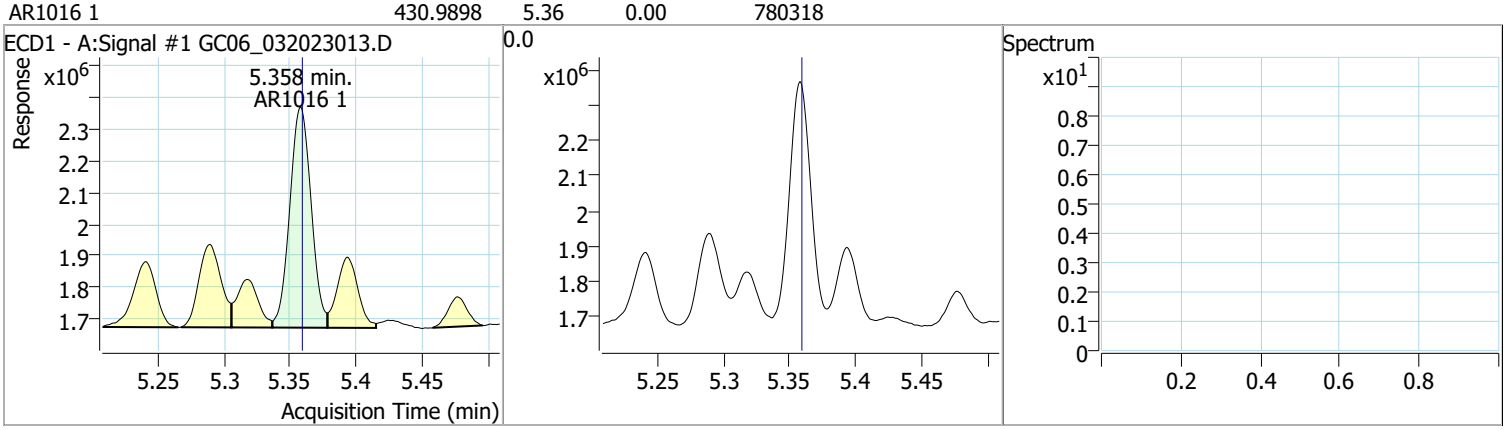
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.358	0.0	780318.038	430.9898	ng/ml	100
T AR1016 2	5.694	0.0	1685131.949	454.9942	ng/ml	100
T AR1016 1 #2	5.888	0.0	3498541.530	534.8881	ng/ml	100
T AR1016 3	6.160	0.0	1990740.078	431.8763	ng/ml	100
T AR1016 4	6.300	0.0	1828513.045	517.0730	ng/ml	100
T AR1016 2 #2	6.316	0.0	6264287.474	432.6813	ng/ml	100
T AR1016 5	6.493	0.0	994703.772	494.0406	ng/ml	100
T AR1016 3 #2	6.875	0.0	8083945.269	457.5192	ng/ml	100
T AR1016 4 #2	7.055	0.0	5493276.285	420.9297	ng/ml	100
T AR1016 5 #2	7.759	0.0	4596866.110	433.2458	ng/ml	100
T AR1260 1	8.657	0.0	2799565.722	484.0227	ng/ml	100
T AR1260 2	9.156	0.0	3173240.708	389.4970	ng/ml	100
T AR1260 3	9.596	0.0	3950933.809	443.9860	ng/ml	100
T AR1260 1 #2	9.933	0.0	8117312.114	445.1203	ng/ml	100
T AR1260 4	10.084	0.0	2243207.275	428.5105	ng/ml	100
T AR1260 2 #2	10.197	0.0	9547413.001	429.1547	ng/ml	100
T AR1260 3 #2	10.625	0.0	12153489.068	412.0862	ng/ml	100
T AR1260 5	10.783	0.0	2460503.918	442.5052	ng/ml	100
T AR1260 4 #2	11.038	0.0	7194400.939	416.4429	ng/ml	100
T AR1260 5 #2	11.713	0.0	10429002.551	394.3730	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

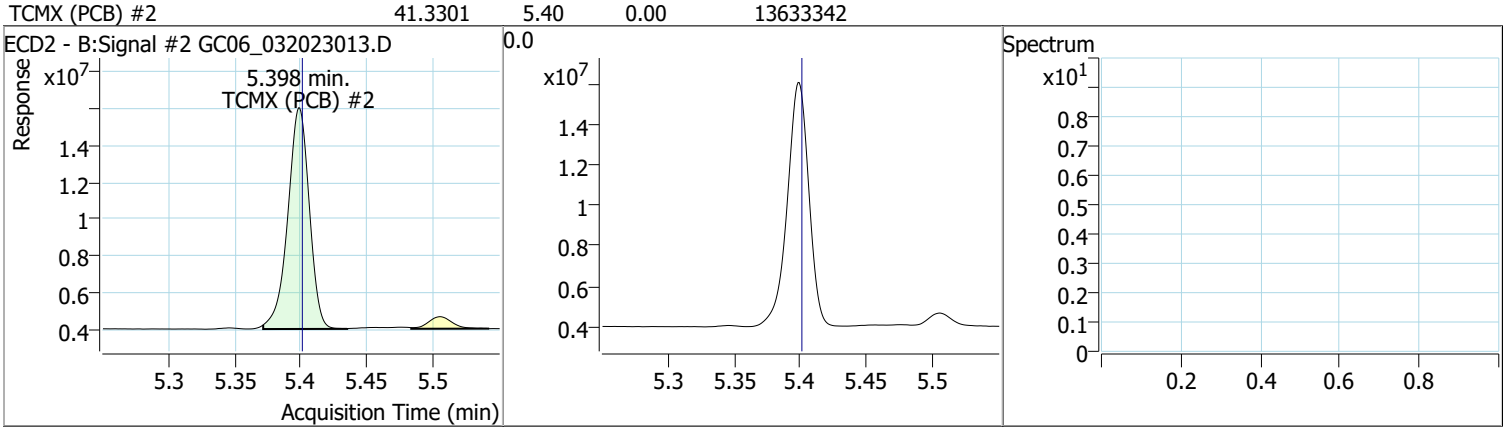
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	40.6275	5.01	0.00	3334690				



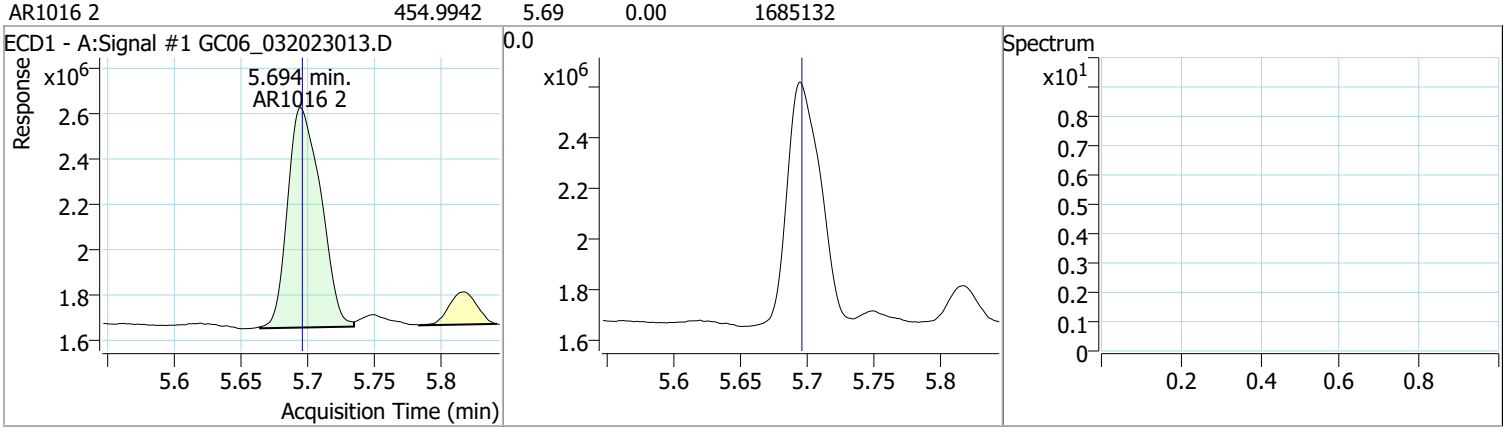
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	430.9898	5.36	0.00	780318				



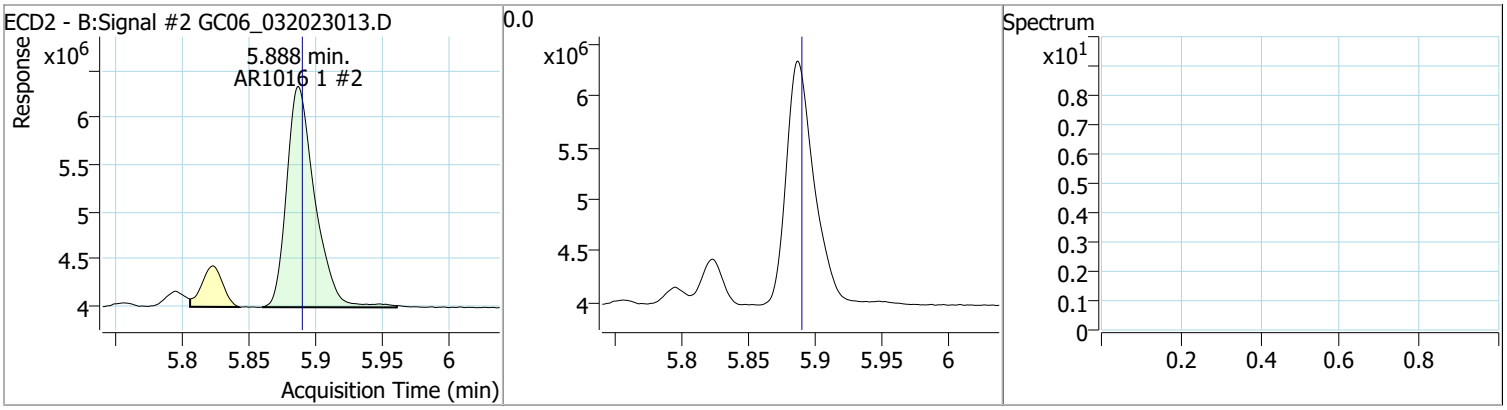
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	41.3301	5.40	0.00	13633342				



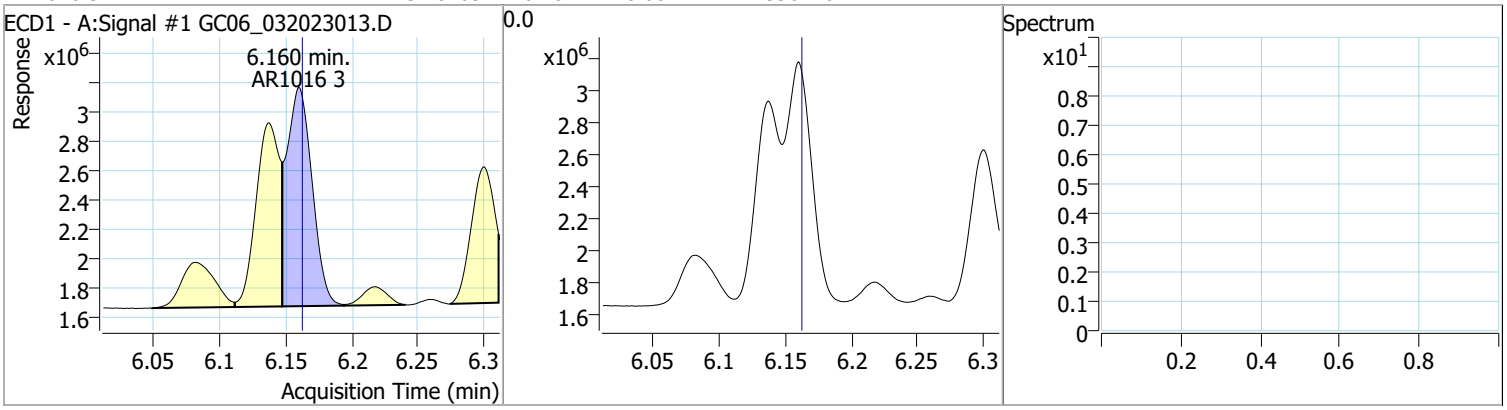
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	454.9942	5.69	0.00	1685132				



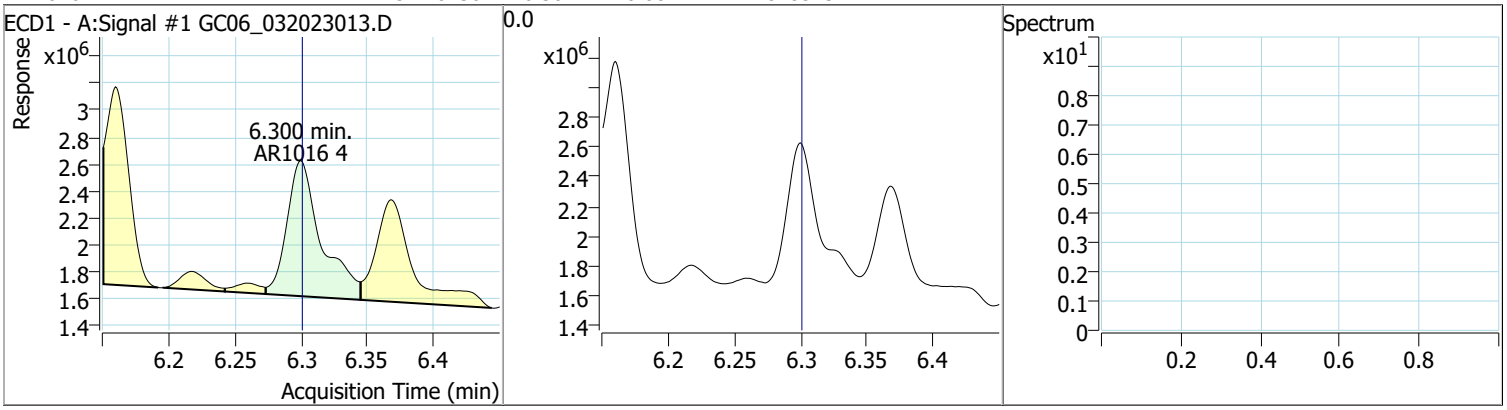
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AR1016 1 #2	534.8881	5.89	0.00	3498542				



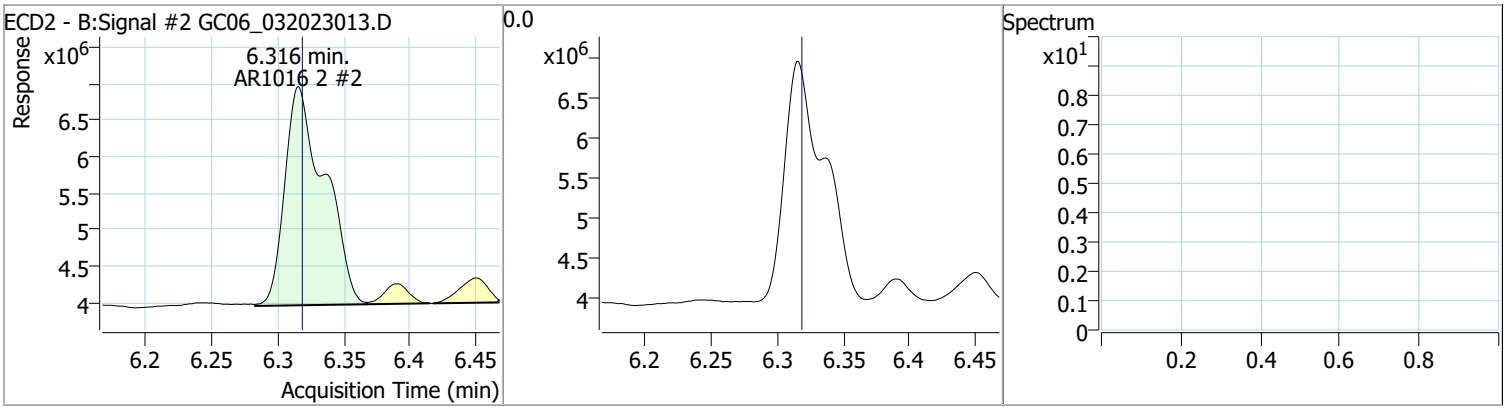
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	431.8763	6.16	0.00	1990740				



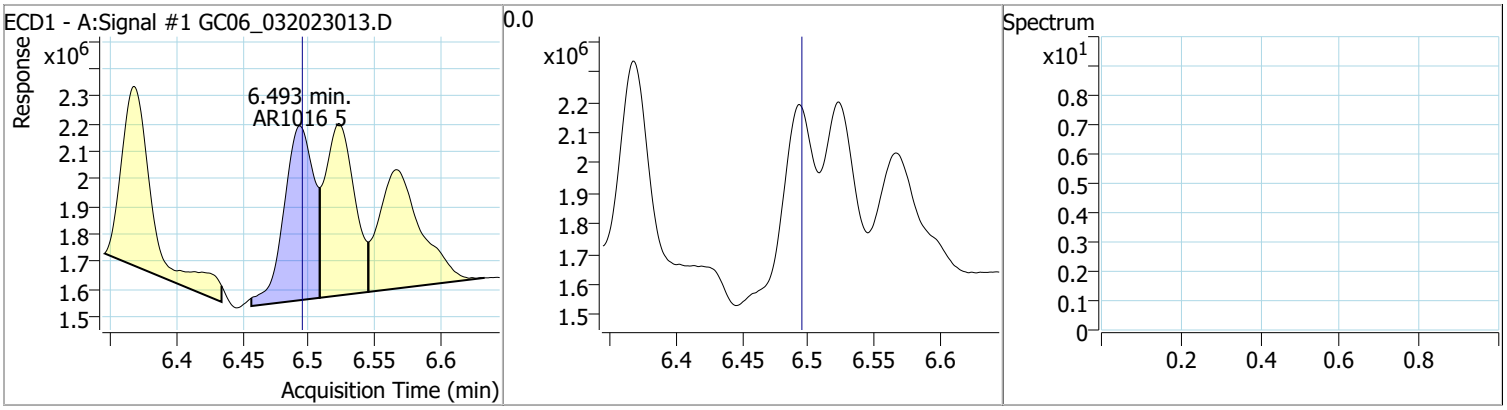
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	517.0730	6.30	0.00	1828513				



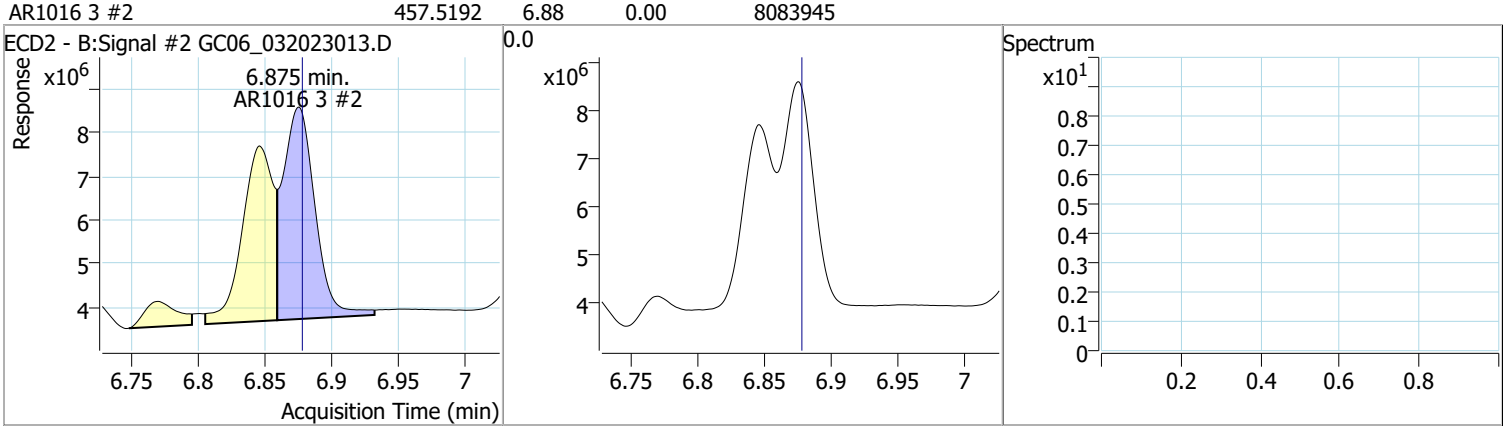
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	432.6813	6.32	0.00	6264287				



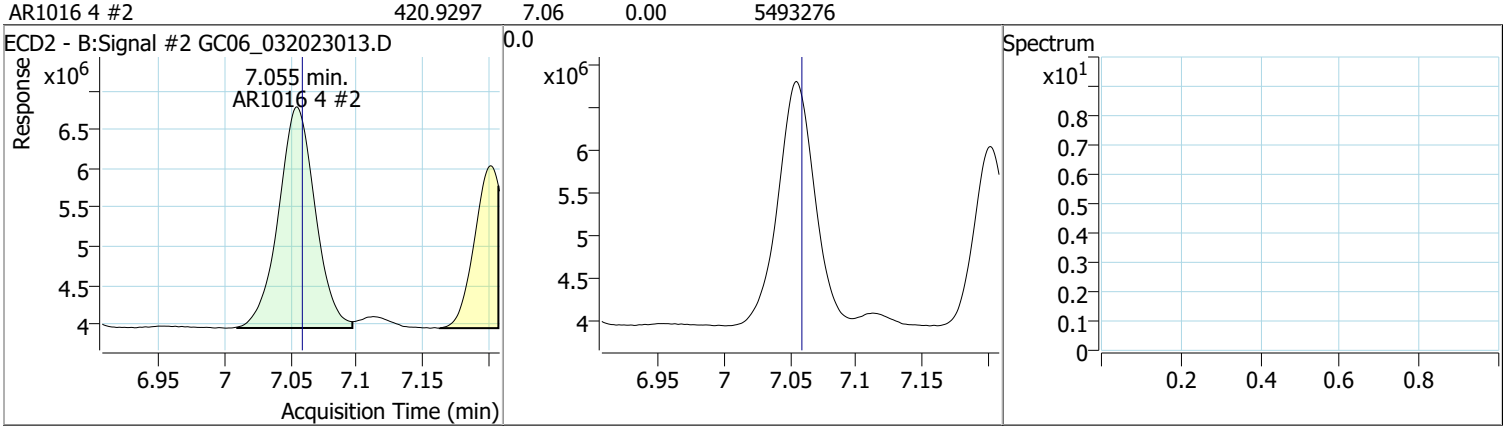
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	494.0406	6.49	0.00	994704				



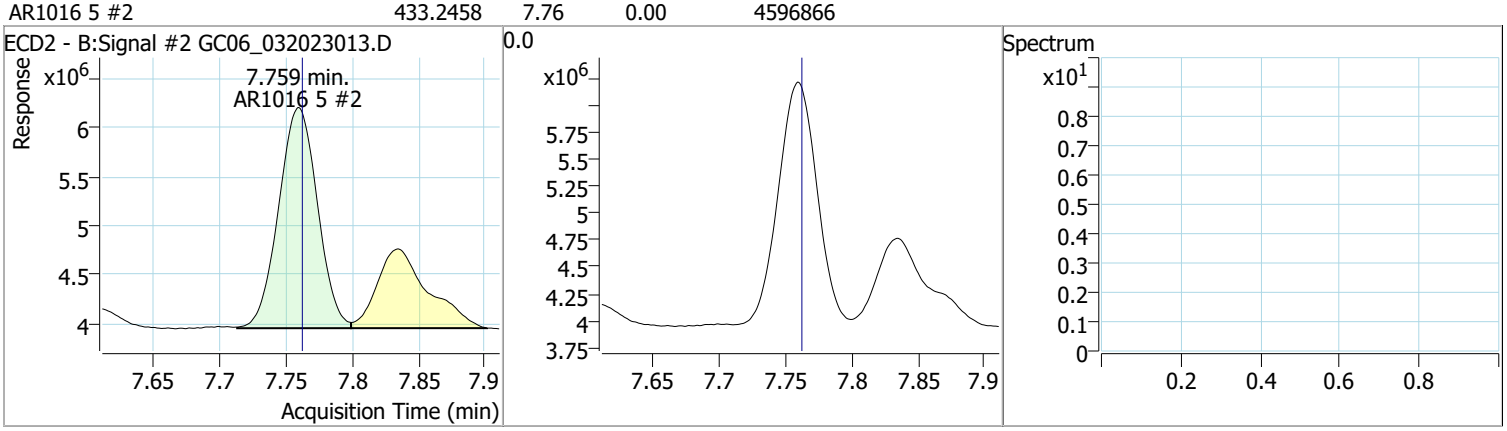
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	457.5192	6.88	0.00	8083945				



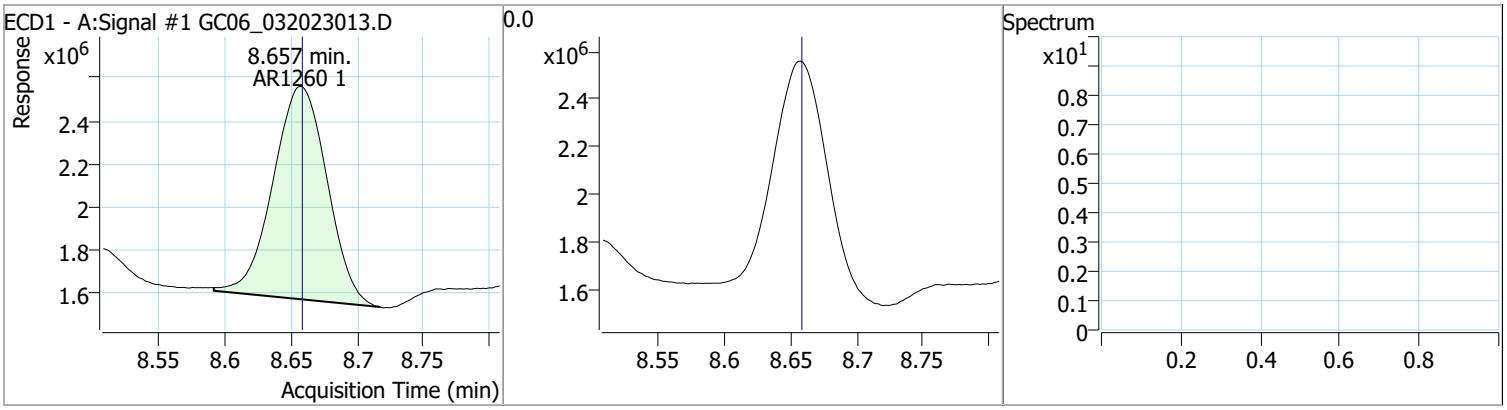
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	420.9297	7.06	0.00	5493276				



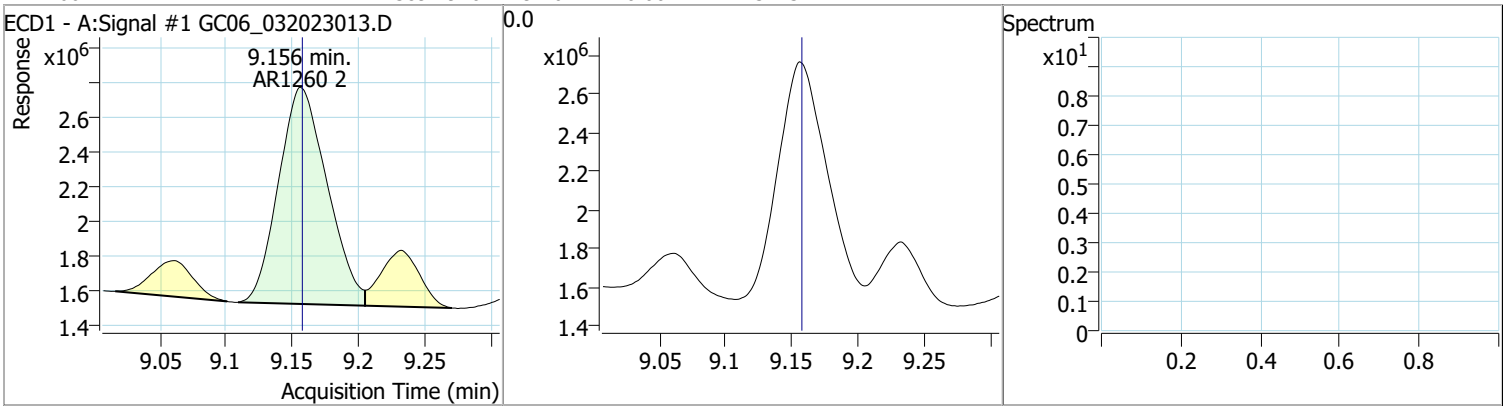
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	433.2458	7.76	0.00	4596866				



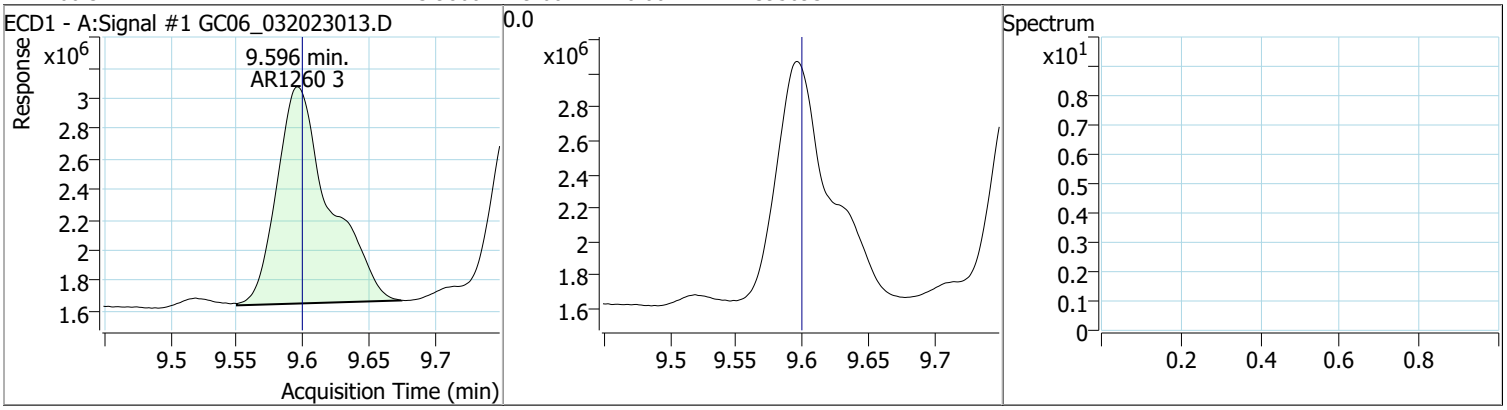
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	484.0227	8.66	0.00	2799566				



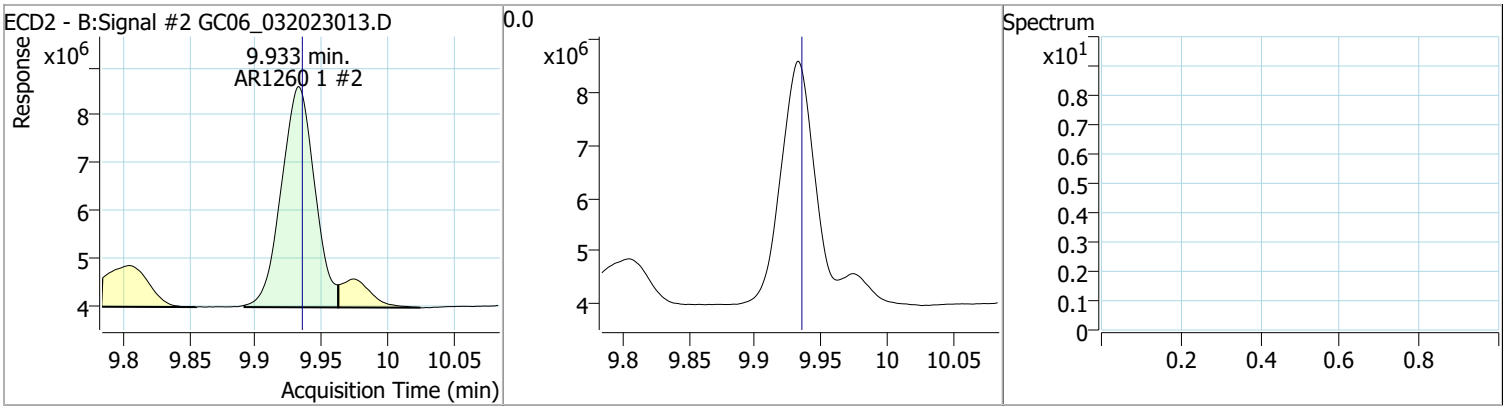
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	389.4970	9.16	0.00	3173241				



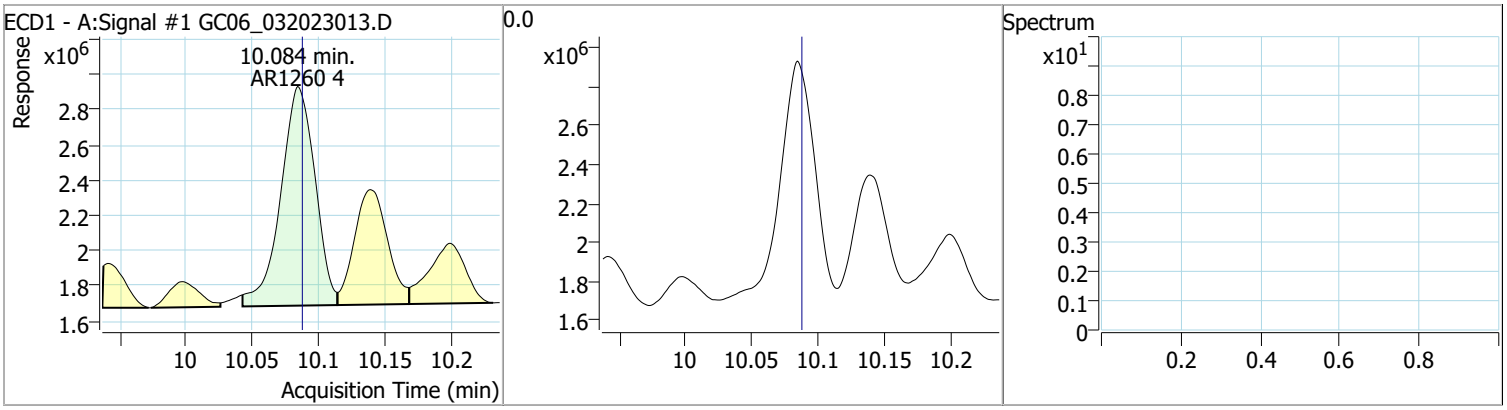
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	443.9860	9.60	0.00	3950934				



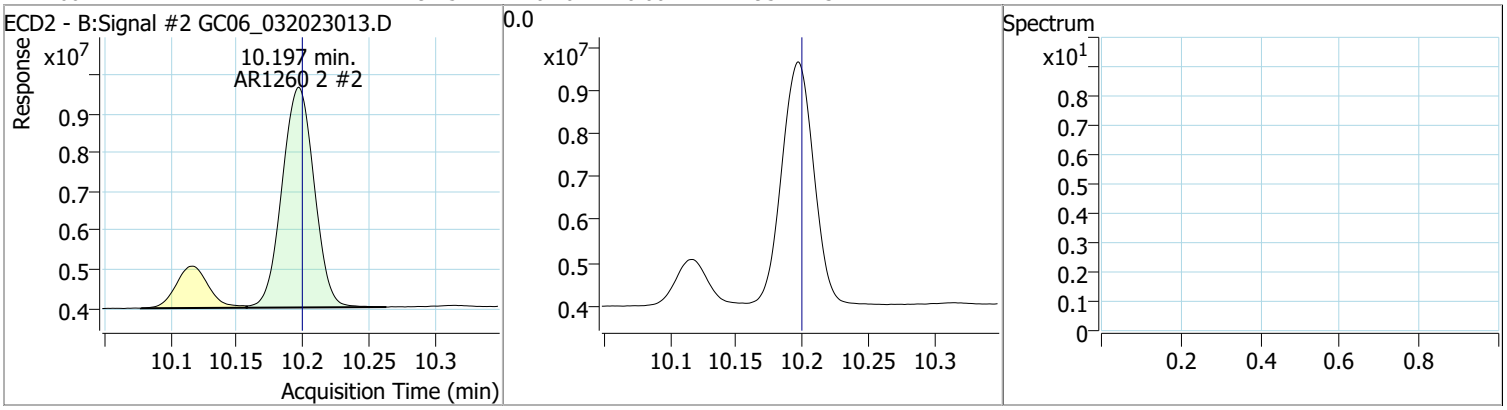
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	445.1203	9.93	0.00	8117312				



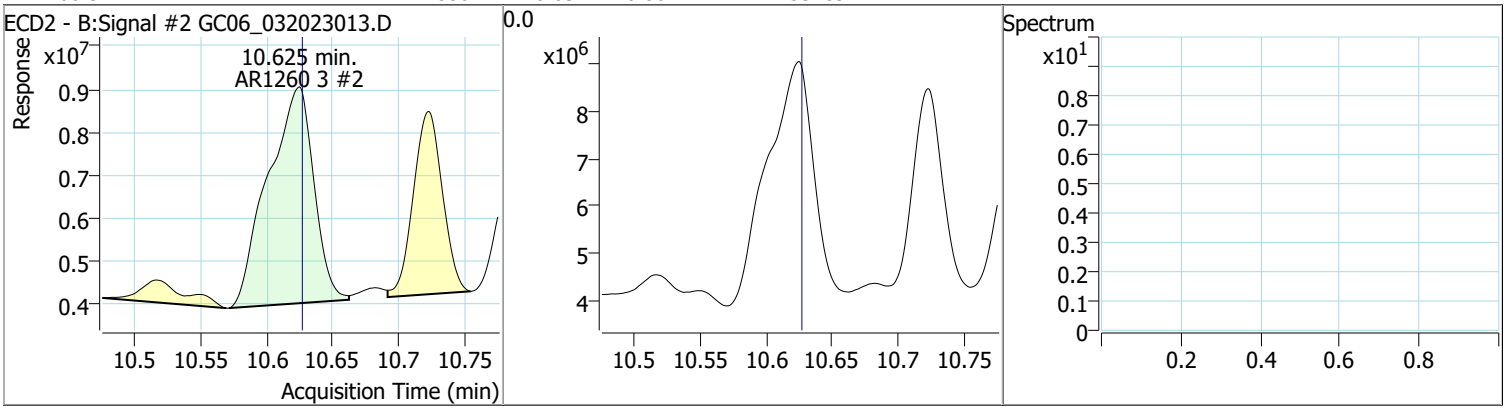
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	428.5105	10.08	0.00	2243207				



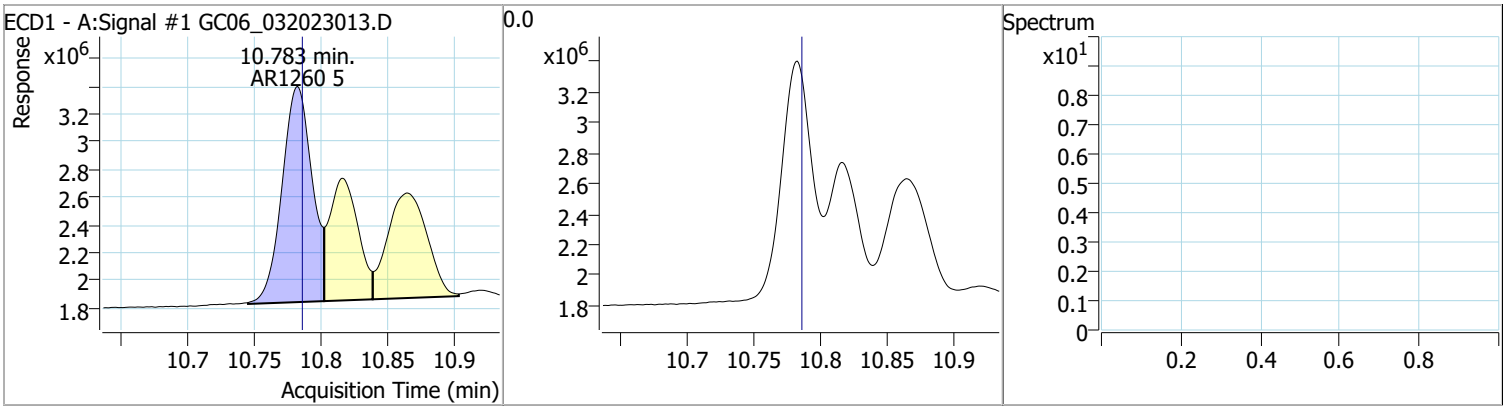
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	429.1547	10.20	0.00	9547413				



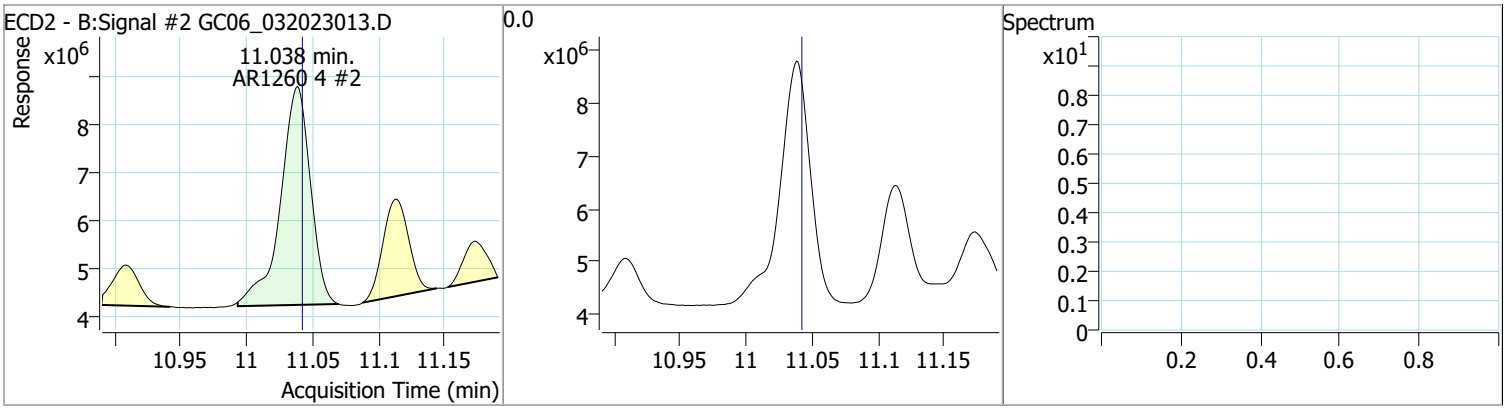
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	412.0862	10.63	0.00	12153489				



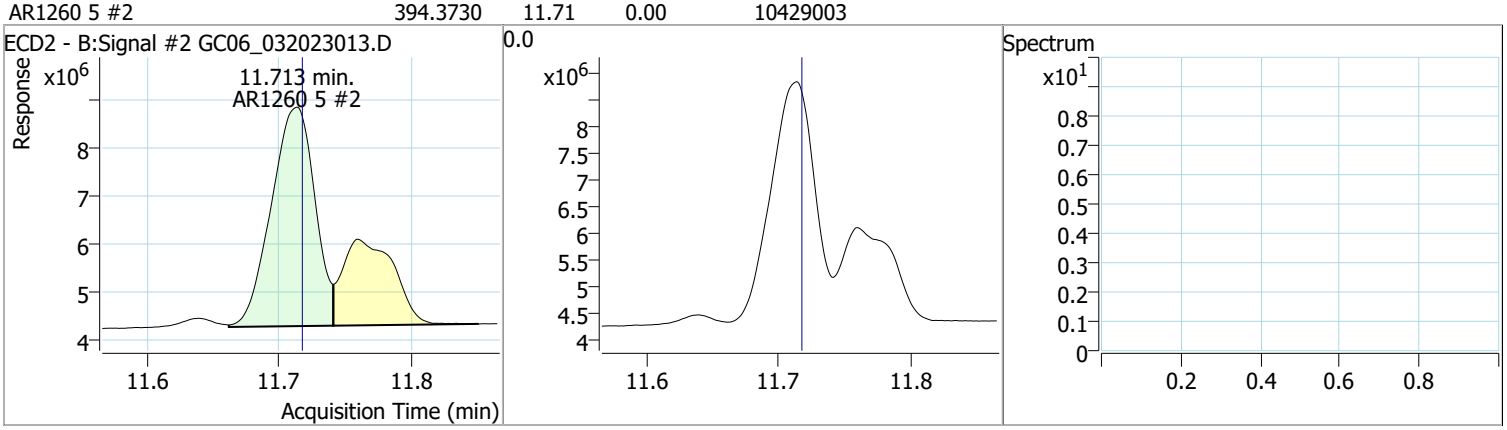
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	442.5052	10.78	0.00	2460504				



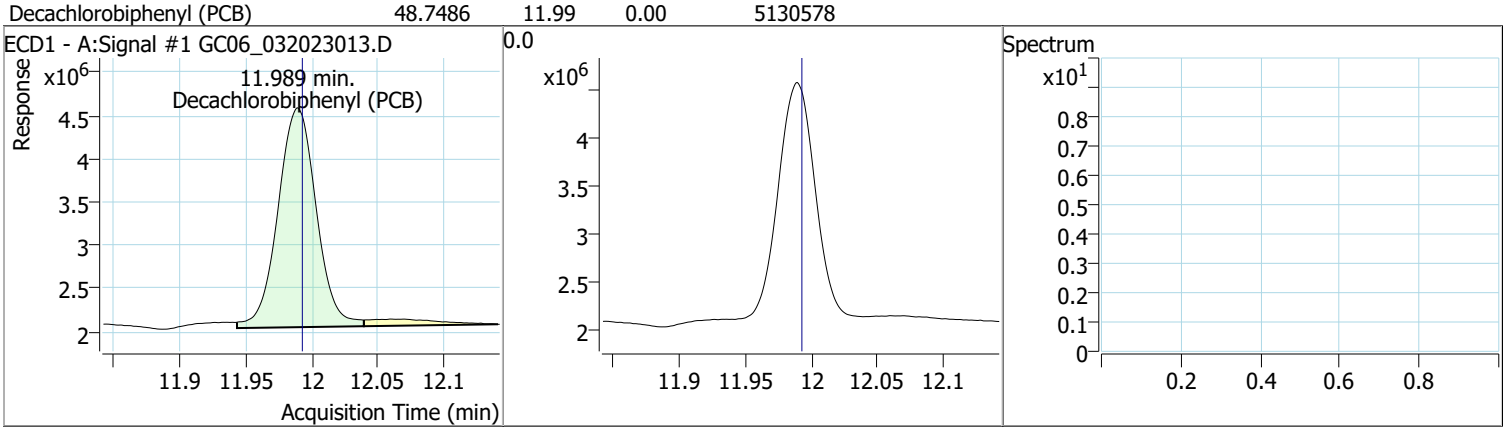
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	416.4429	11.04	0.00	7194401				



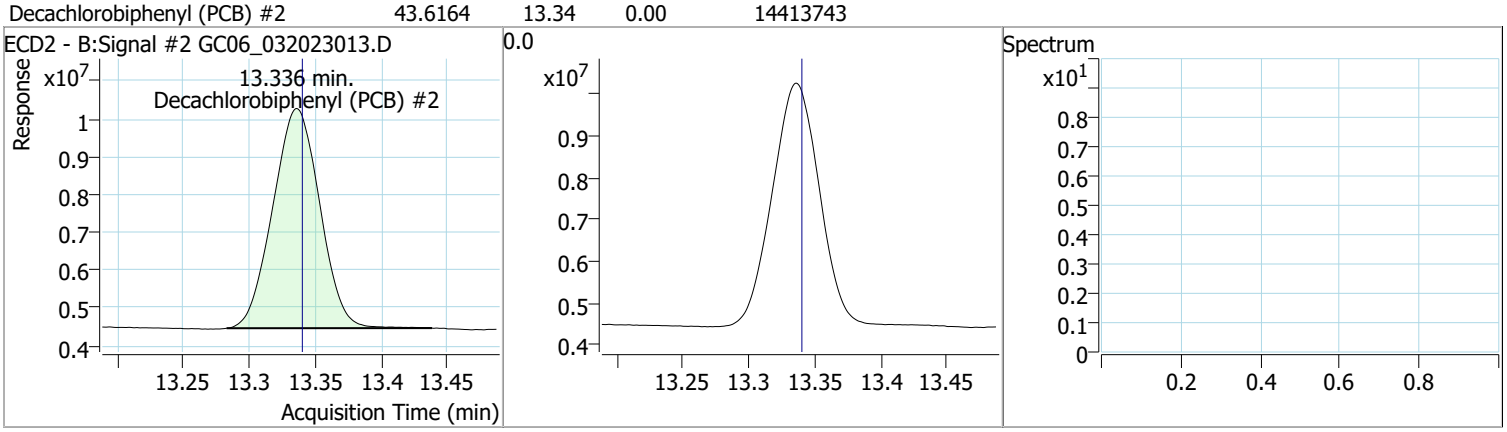
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	394.3730	11.71	0.00	10429003				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	48.7486	11.99	0.00	5130578				

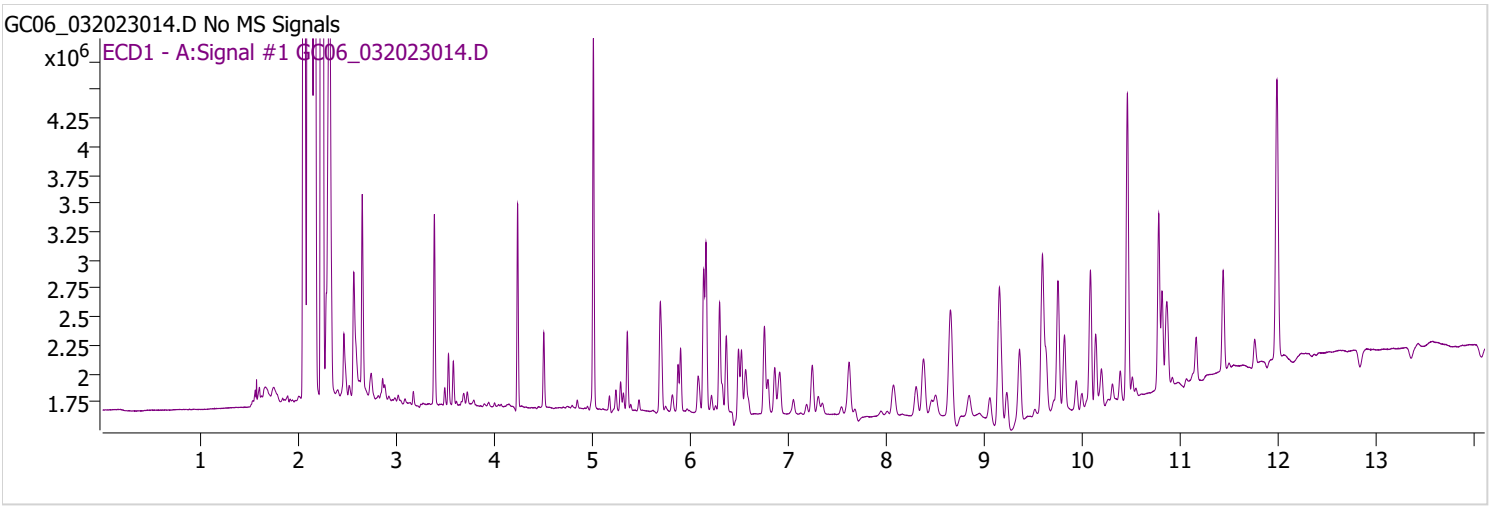


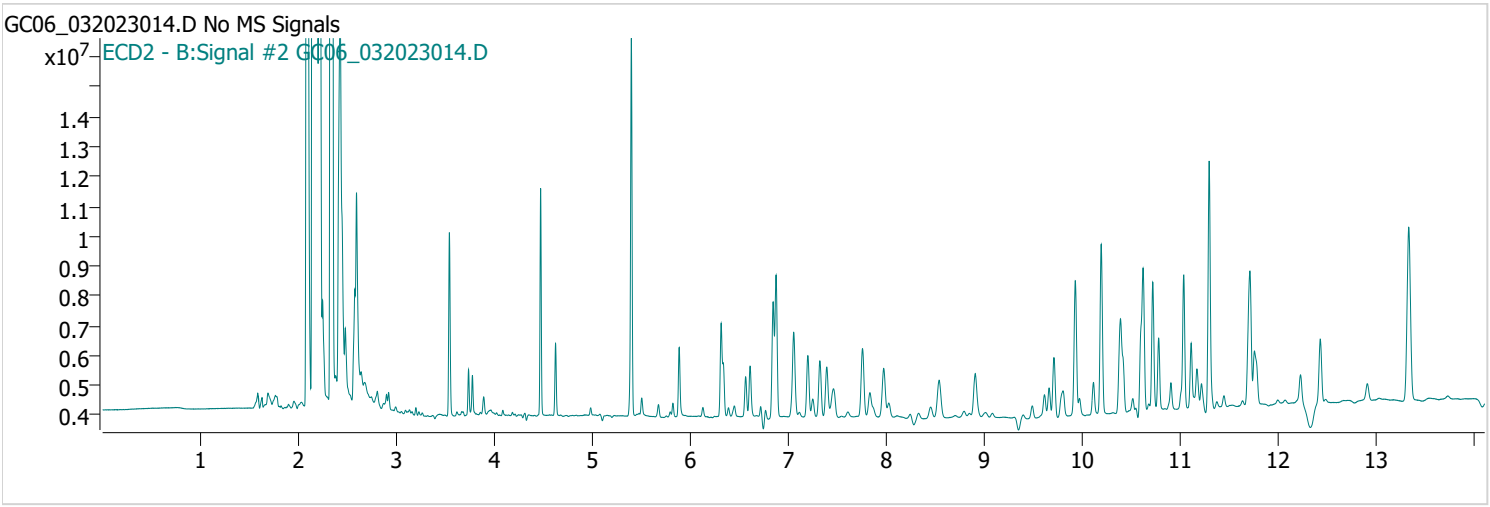
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	43.6164	13.34	0.00	14413743				



Quantitation Results Report (Not Reviewed)

Data File	GC06_032023014.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/20/2023 1:15:13 PM
Sample Name	QC1052913, 310026, 1	Instrument	SVOA-GC06
Vial	3	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_6.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	032023PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



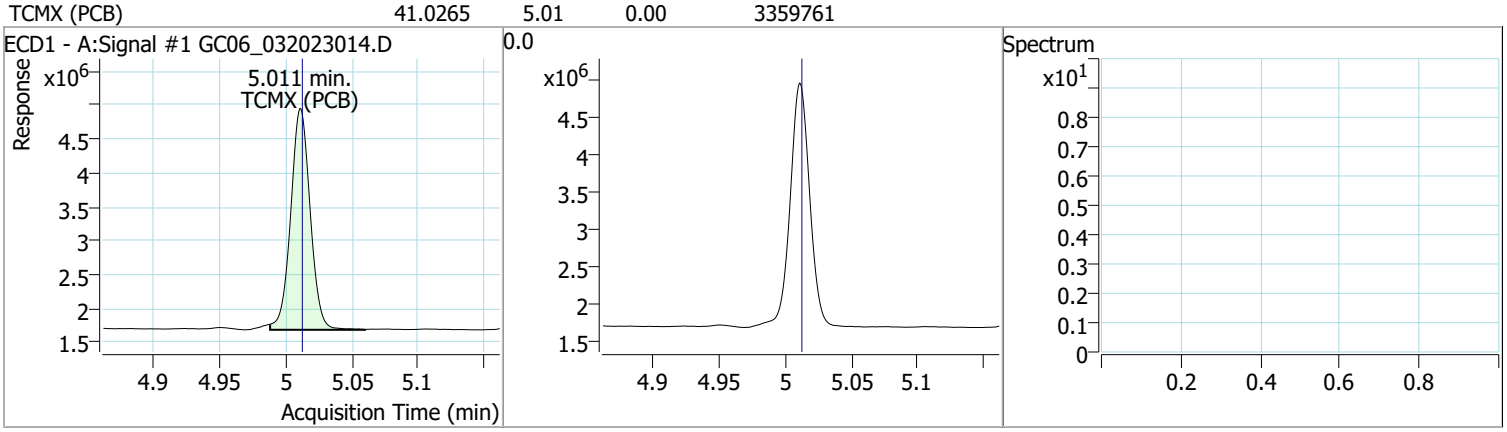


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.238	0.0	1765581.451	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.473	0.0	6915405.073	20.0000	ng/ml		0.001
System Monitoring Compounds							
S TCMX (PCB)	5.011	0.0	3359760.691	41.0265	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 205.13%		*	
S TCMX (PCB) #2	5.399	0.0	13630692.489	41.0424	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 205.21%		*	
S Decachlorobiphenyl (PCB)	11.990	0.0	5035467.608	47.9542	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 239.77%		*	
S Decachlorobiphenyl (PCB) #2	13.335	0.0	14355966.012	43.1476	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 215.74%		*	
Target Compounds							QValue

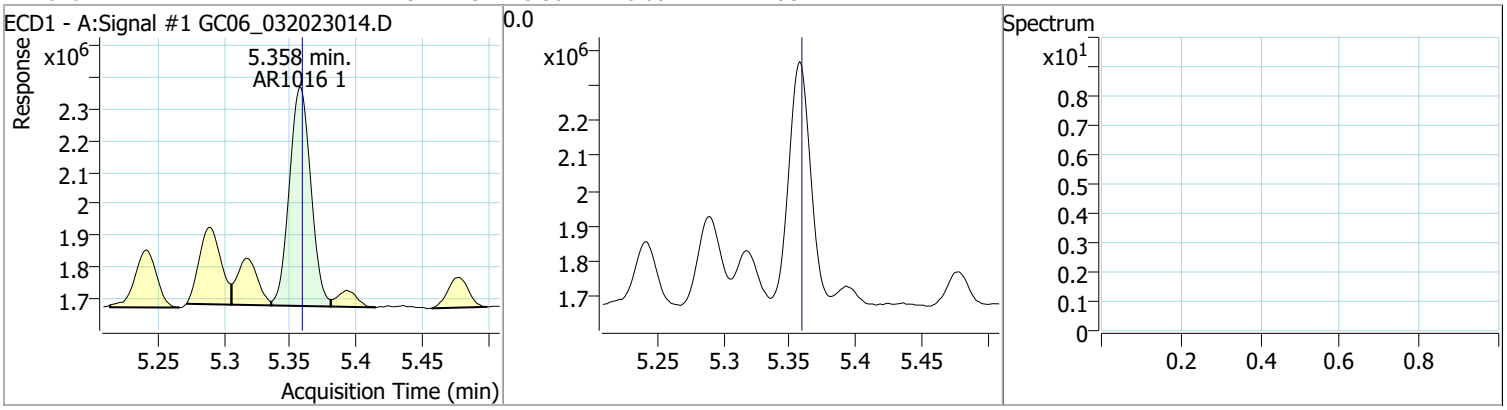
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.358	0.0	779320.802	431.4223	ng/ml	100
T AR1016 2	5.695	0.0	1705851.251	462.3699	ng/ml	100
T AR1016 1 #2	5.888	0.0	2944662.640	447.1591	ng/ml	100
T AR1016 3	6.161	0.0	2019919.604	439.9461	ng/ml	100
T AR1016 4	6.300	0.0	1818692.027	515.4708	ng/ml	100
T AR1016 2 #2	6.316	0.0	6304104.161	432.4844	ng/ml	100
T AR1016 5	6.493	0.0	974929.863	485.3257	ng/ml	100
T AR1016 3 #2	6.877	0.0	8220209.708	462.0825	ng/ml	100
T AR1016 4 #2	7.057	0.0	5534570.971	421.2237	ng/ml	100
T AR1016 5 #2	7.759	0.0	4652885.520	435.5575	ng/ml	100
T AR1260 1	8.657	0.0	2788958.312	483.2078	ng/ml	100
T AR1260 2	9.157	0.0	3180873.486	391.3259	ng/ml	100
T AR1260 3	9.596	0.0	3939949.875	443.7632	ng/ml	100
T AR1260 1 #2	9.931	0.0	8045626.766	438.2034	ng/ml	100
T AR1260 4	10.086	0.0	2209228.086	422.9837	ng/ml	100
T AR1260 2 #2	10.196	0.0	9479615.643	423.2232	ng/ml	100
T AR1260 3 #2	10.623	0.0	11807916.056	397.6591	ng/ml	100
T AR1260 5	10.783	0.0	2446746.556	441.0363	ng/ml	100
T AR1260 4 #2	11.038	0.0	7039518.036	404.7197	ng/ml	100
T AR1260 5 #2	11.714	0.0	10247187.274	384.8750	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

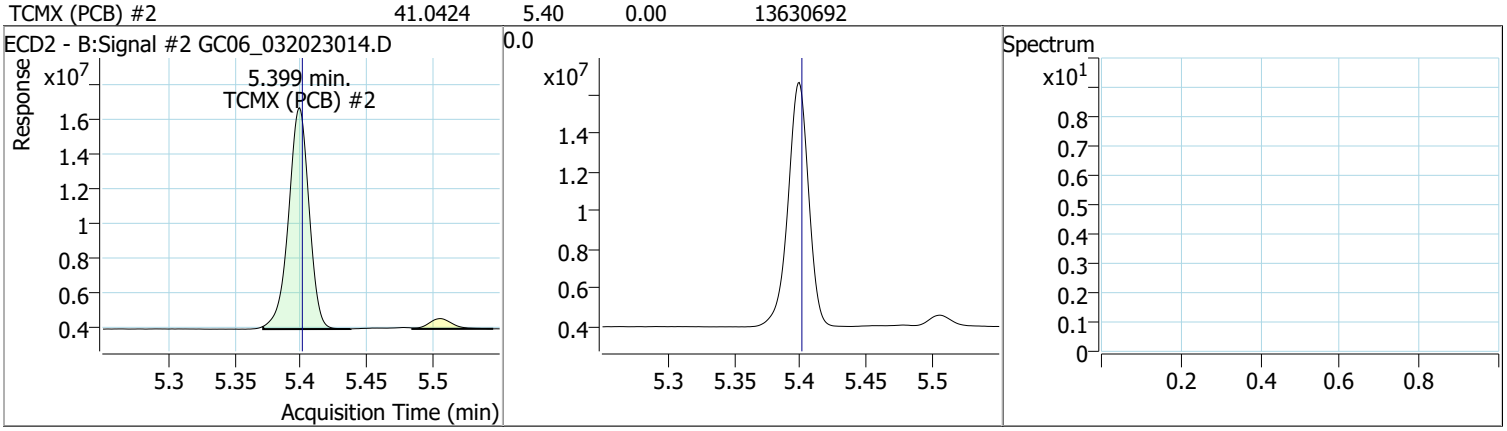
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	41.0265	5.01	0.00	3359761				



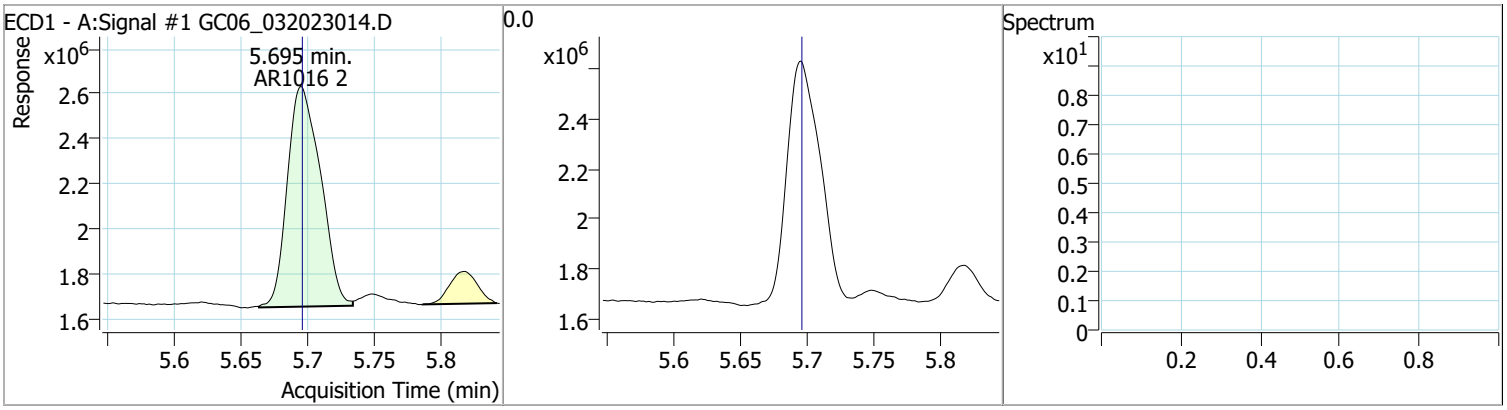
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	431.4223	5.36	0.00	779321				



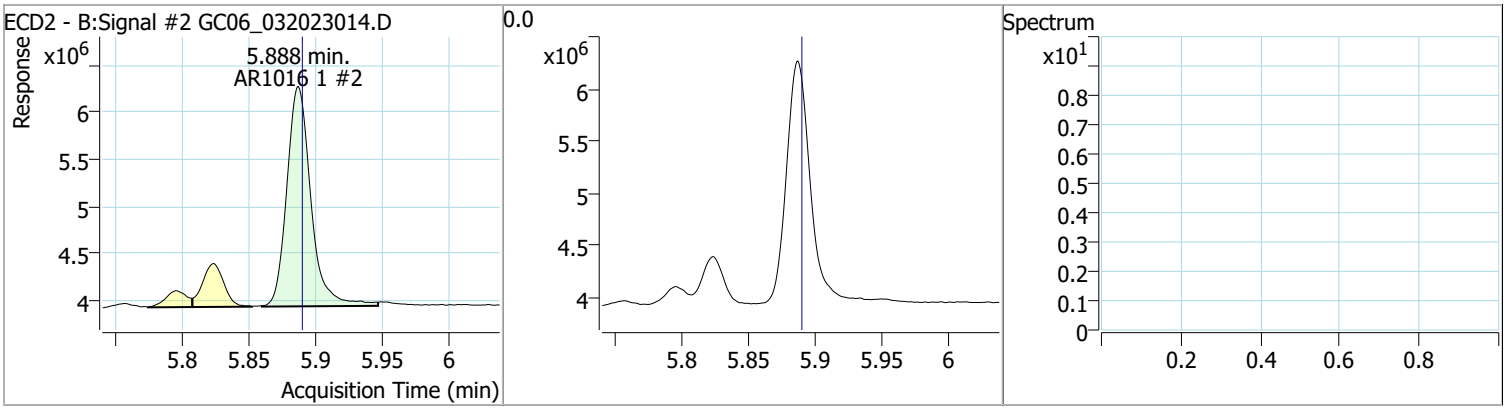
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	41.0424	5.40	0.00	13630692				



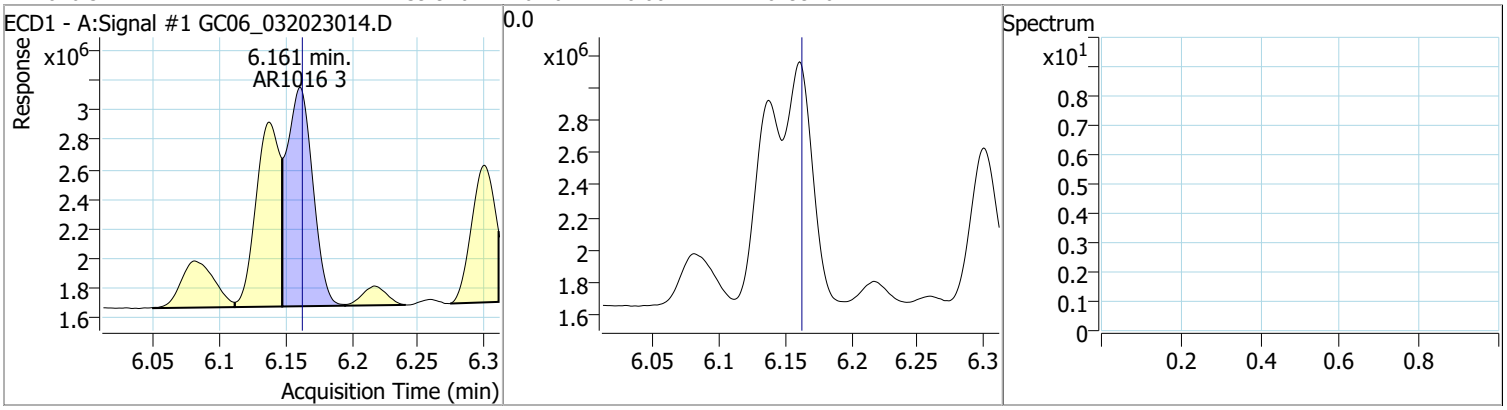
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	462.3699	5.70	0.00	1705851				



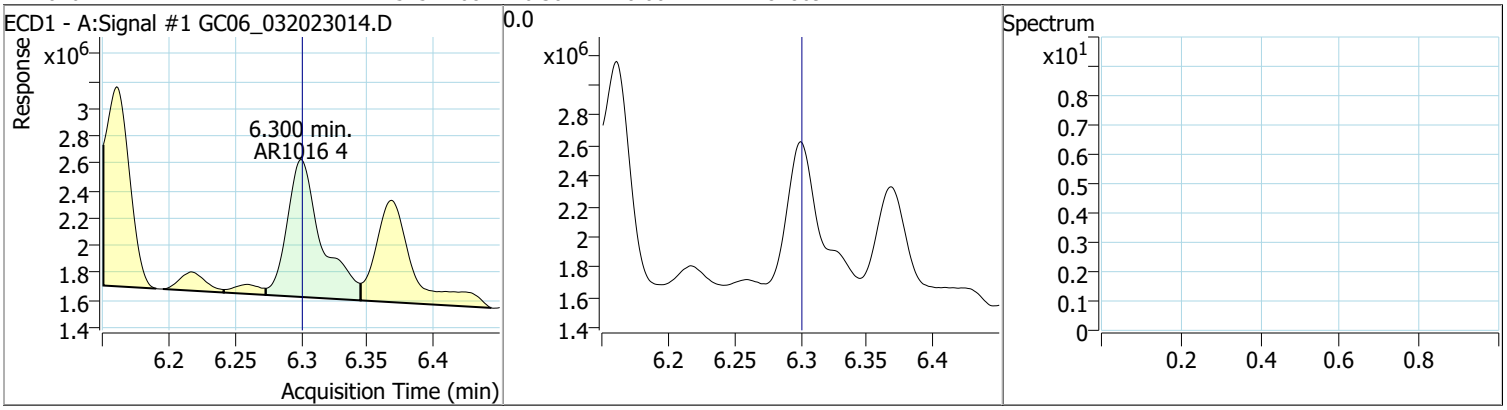
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	447.1591	5.89	0.00	2944663				



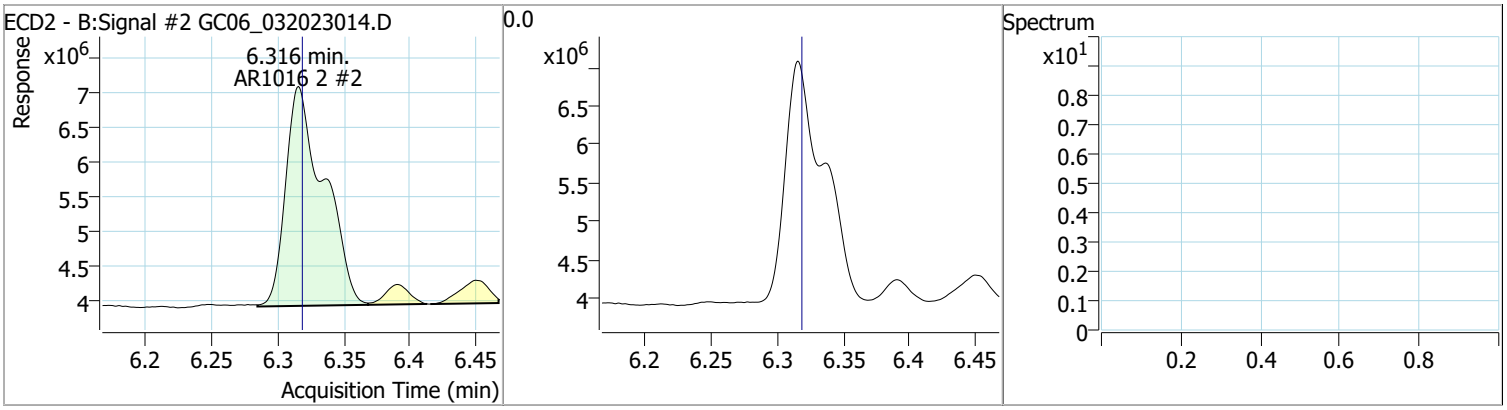
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	439.9461	6.16	0.00	2019920				



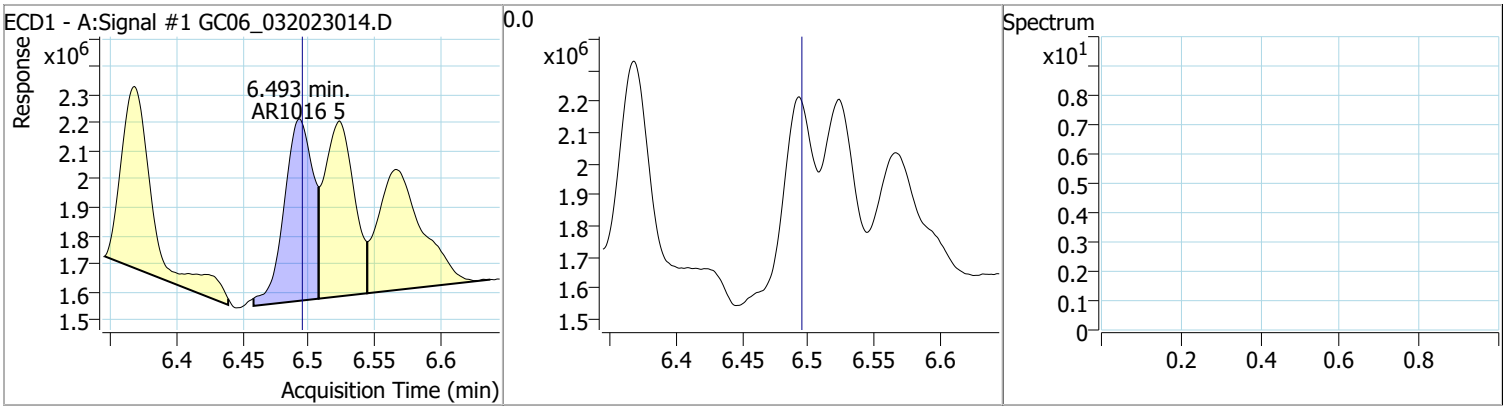
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	515.4708	6.30	0.00	1818692				



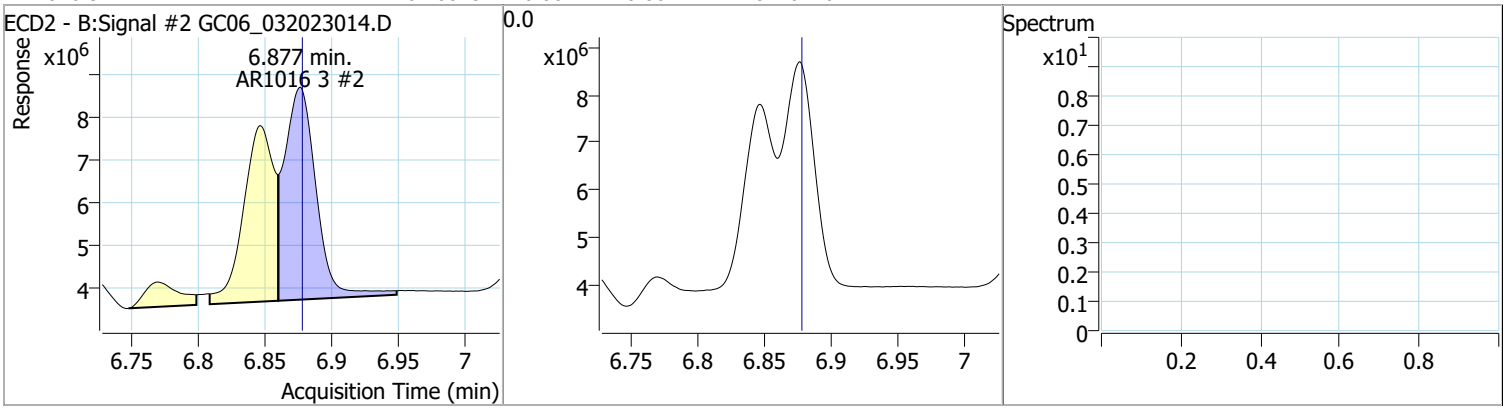
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	432.4844	6.32	0.00	6304104				



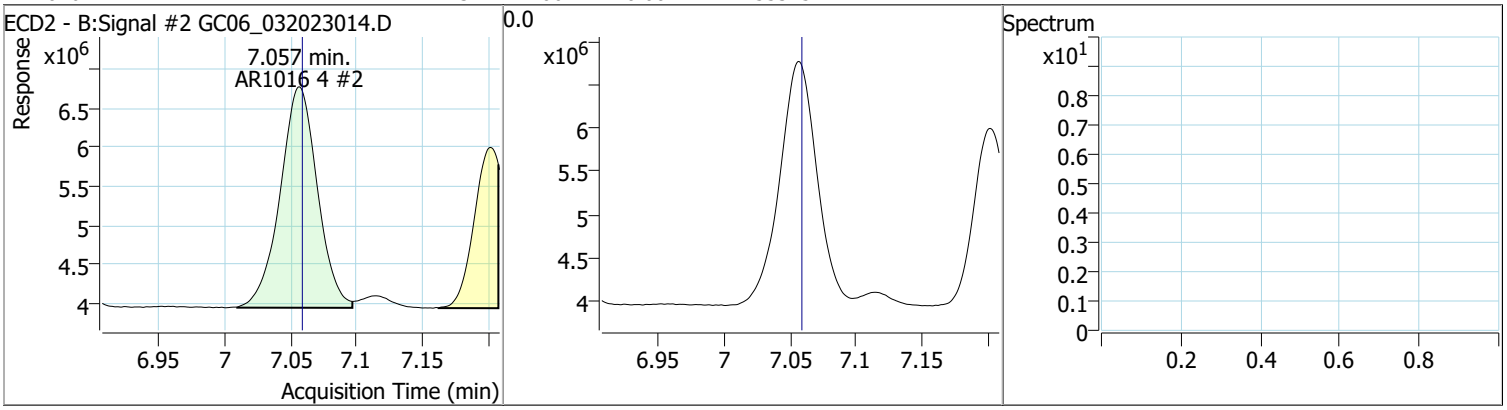
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	485.3257	6.49	0.00	974930				



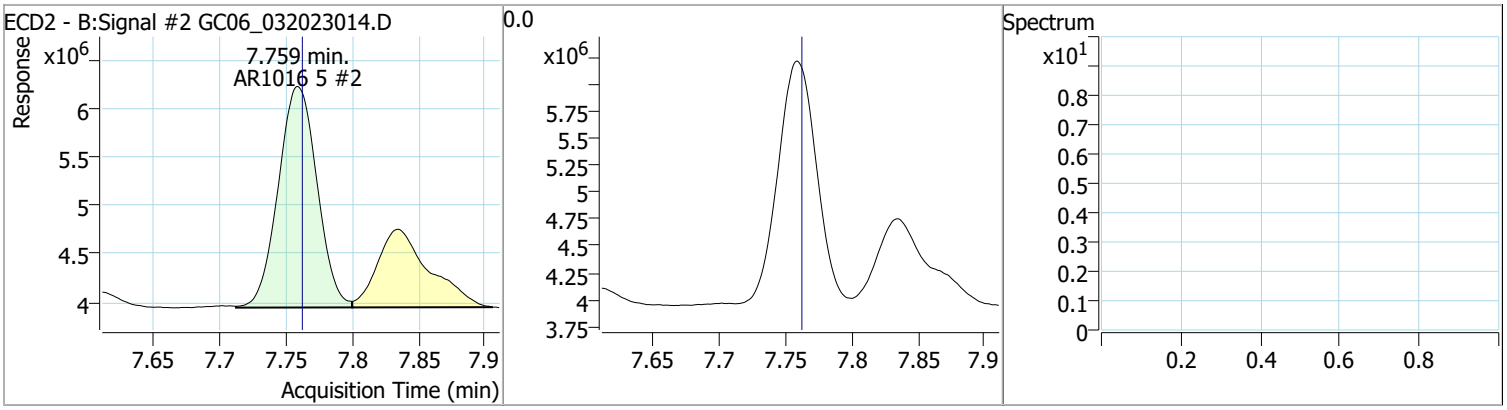
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	462.0825	6.88	0.00	8220210				



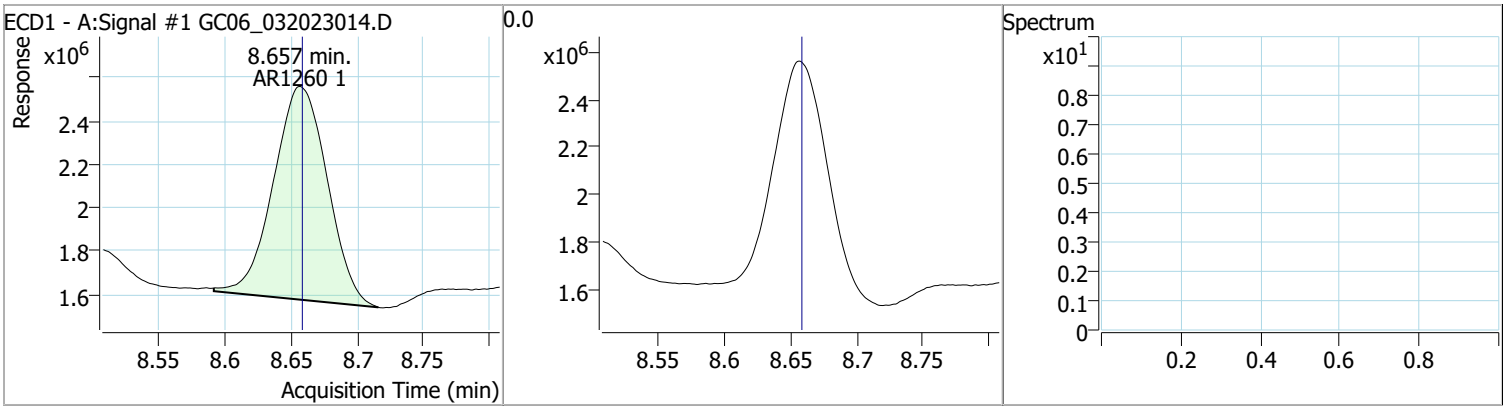
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AR1016 4 #2	421.2237	7.06	0.00	5534571				



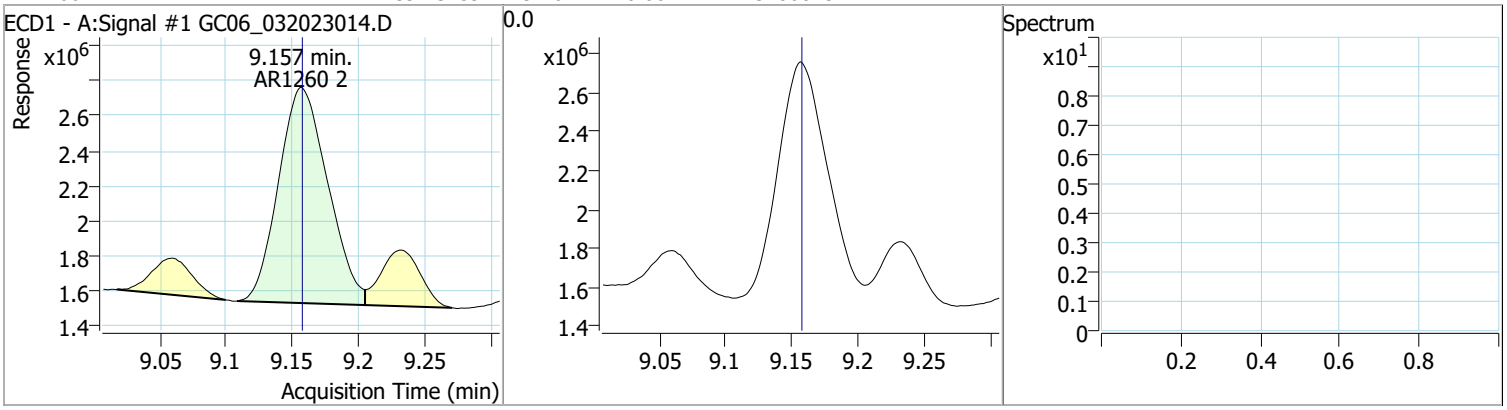
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	435.5575	7.76	0.00	4652886				



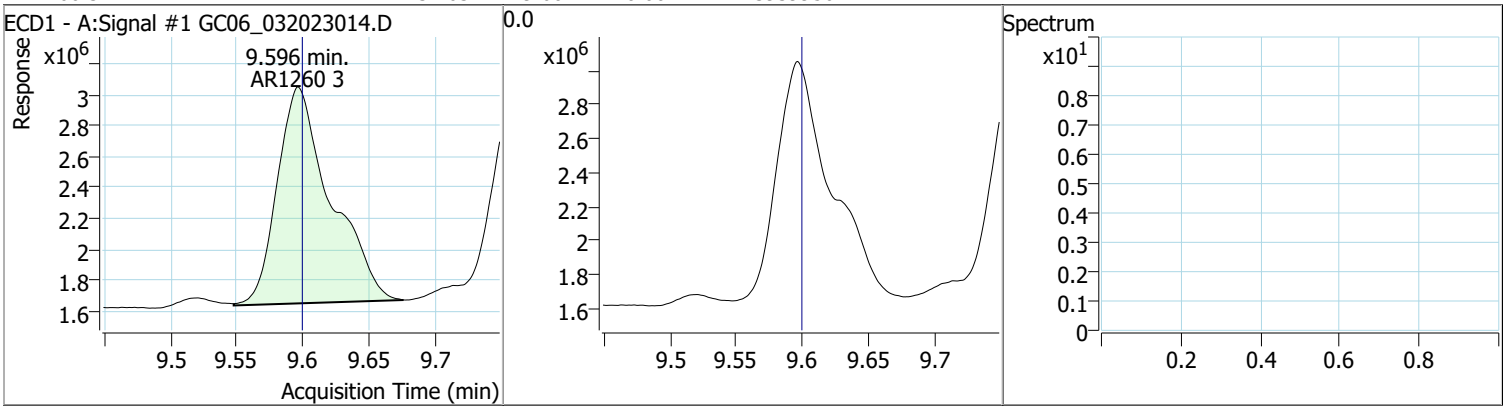
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	483.2078	8.66	0.00	2788958				



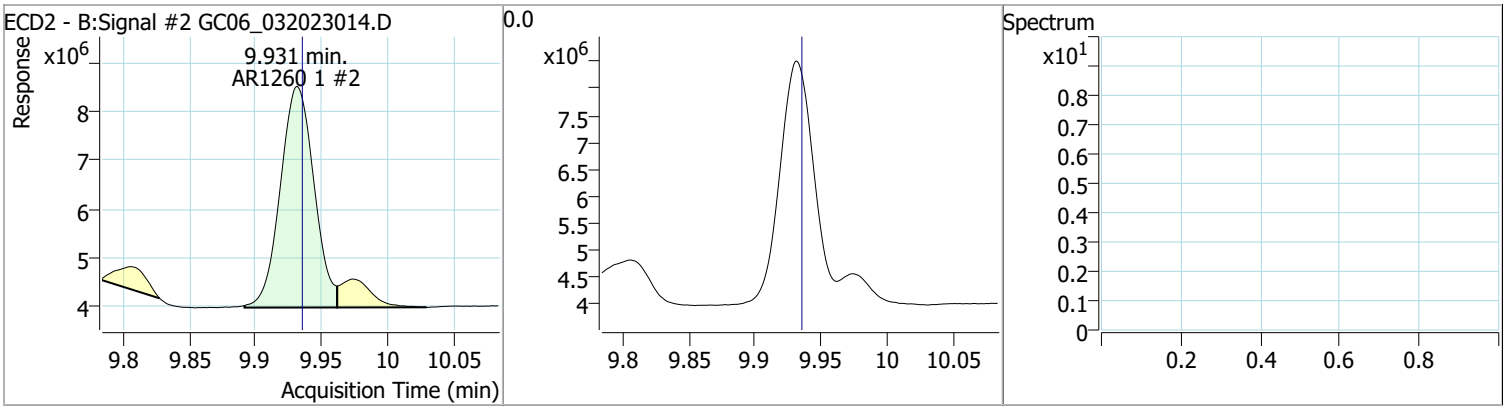
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	391.3259	9.16	0.00	3180873				



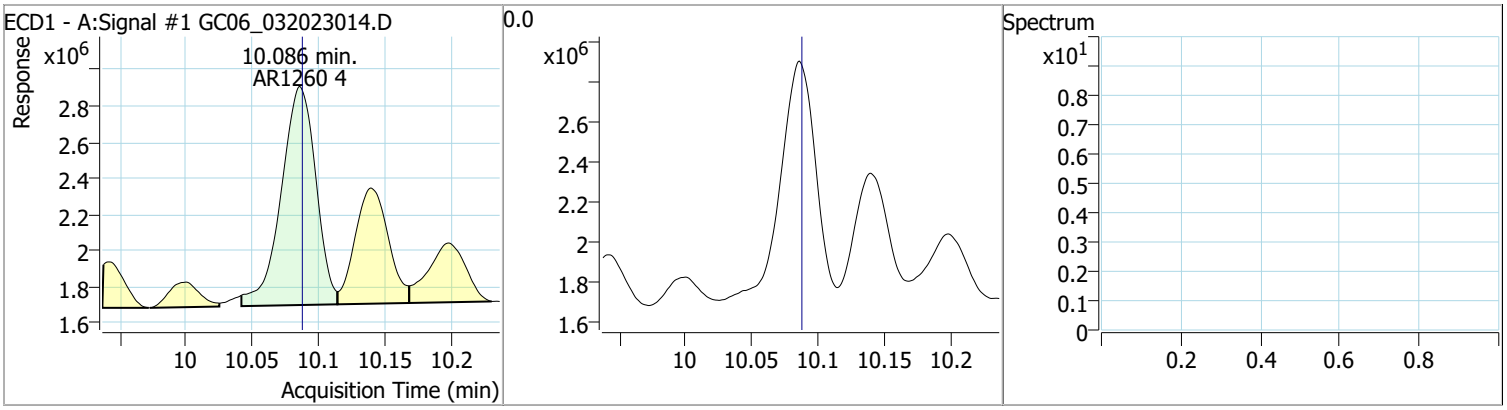
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	443.7632	9.60	0.00	3939950				



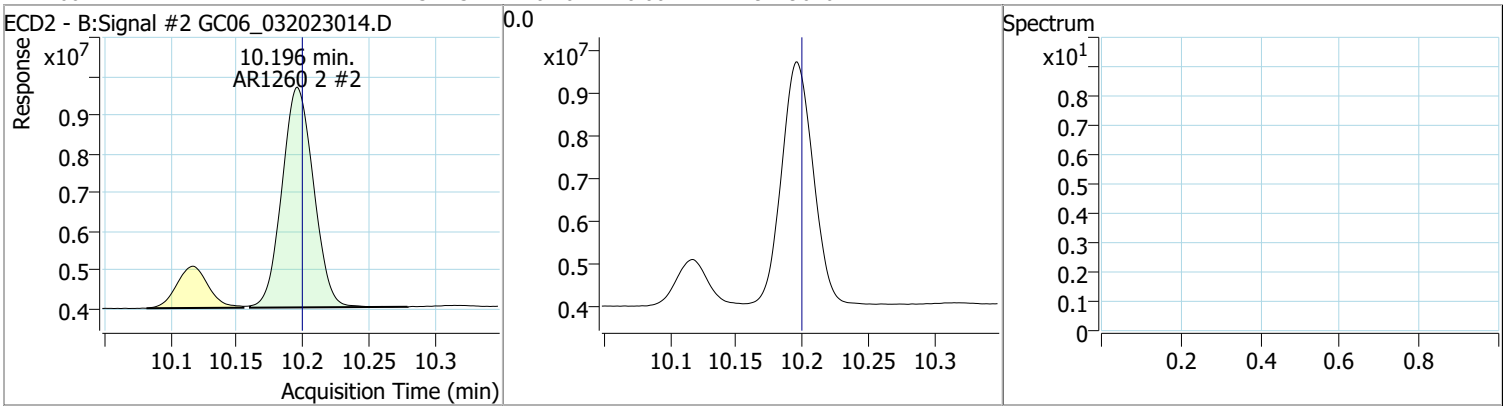
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	438.2034	9.93	0.00	8045627				



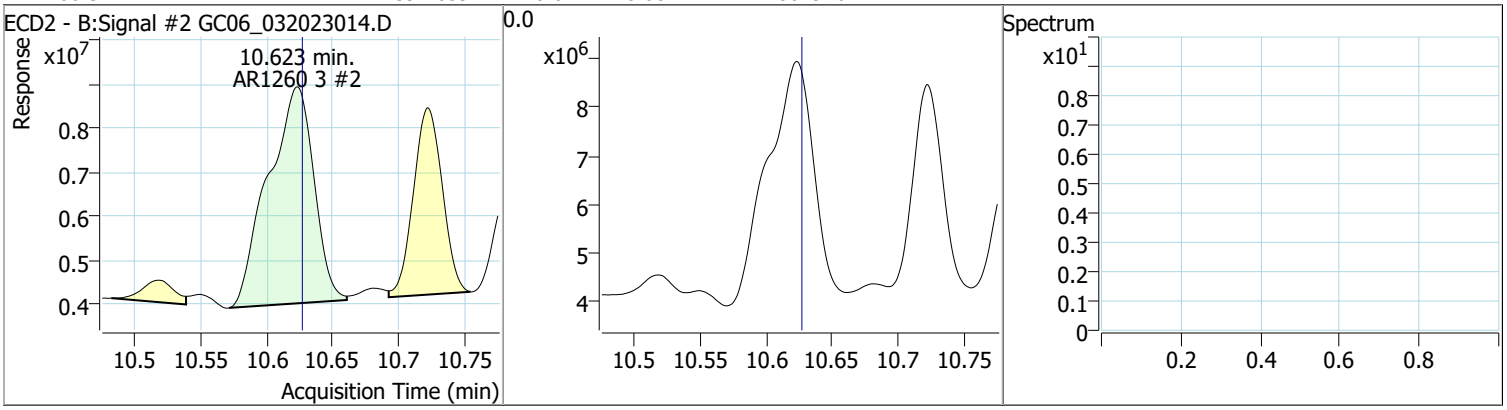
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	422.9837	10.09	0.00	2209228				



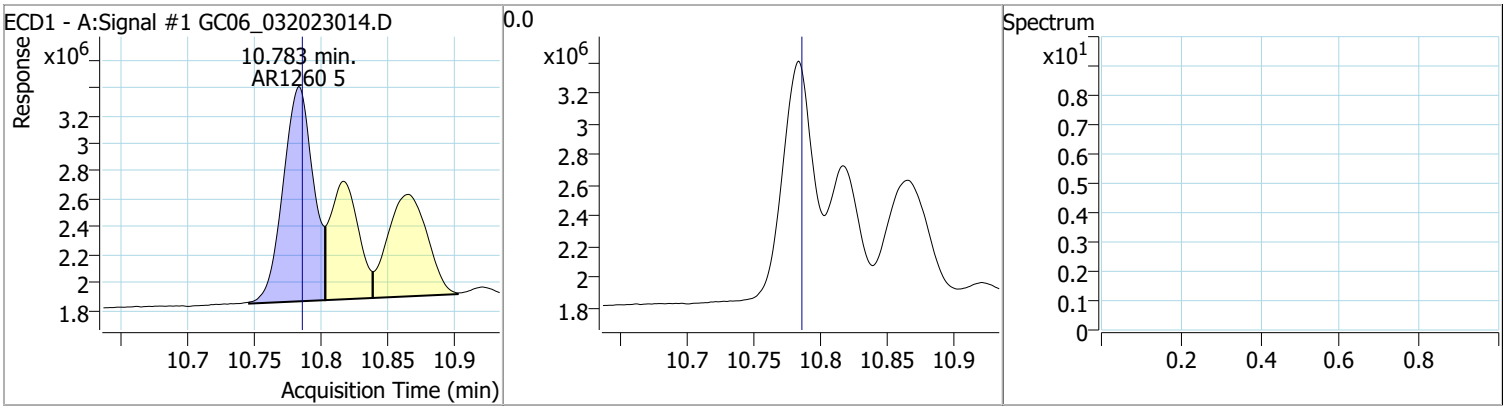
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	423.2232	10.20	0.00	9479616				



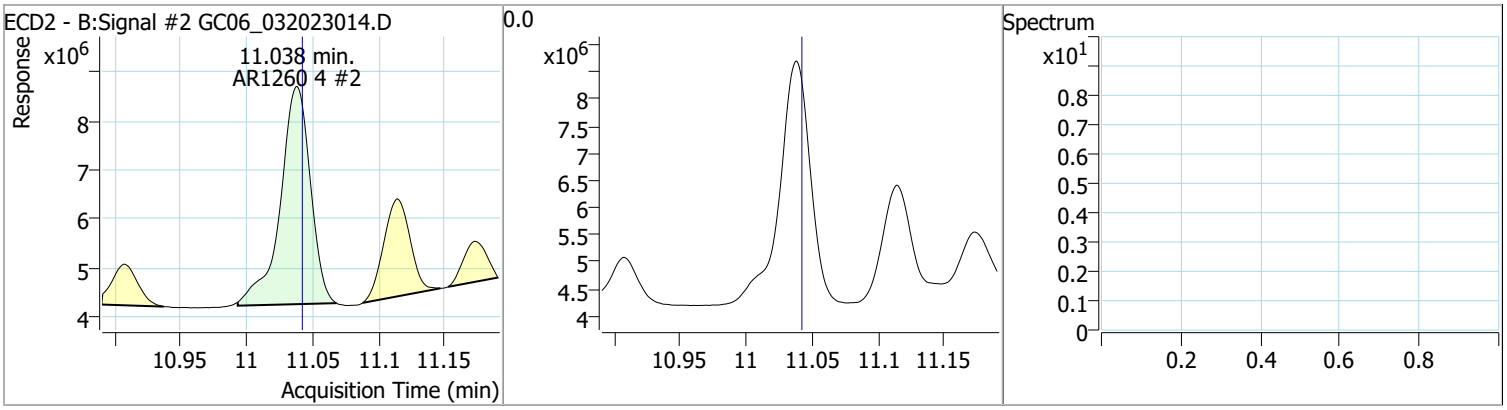
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	397.6591	10.62	0.00	11807916				



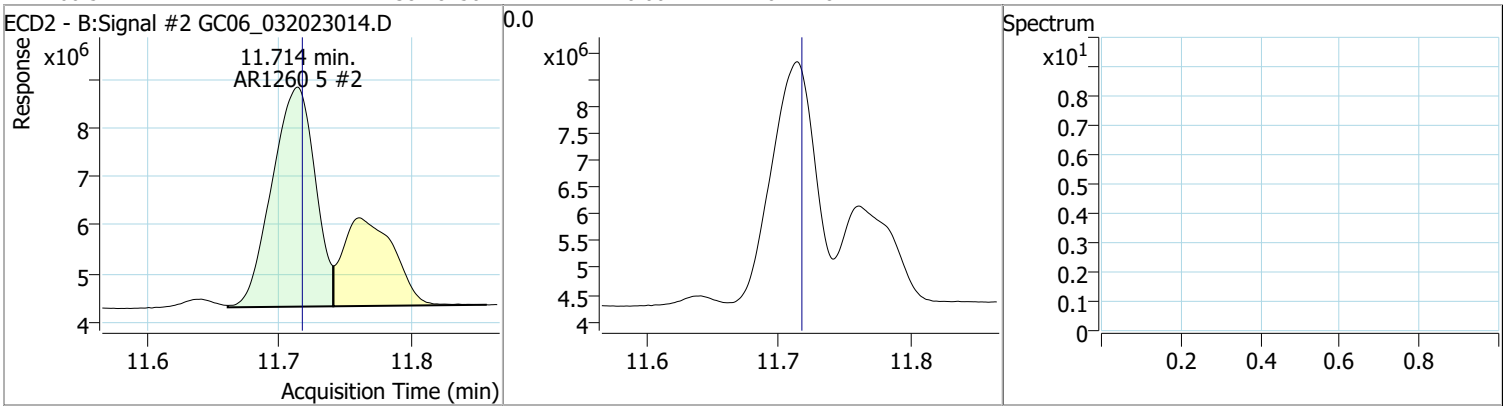
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	441.0363	10.78	0.00	2446747				



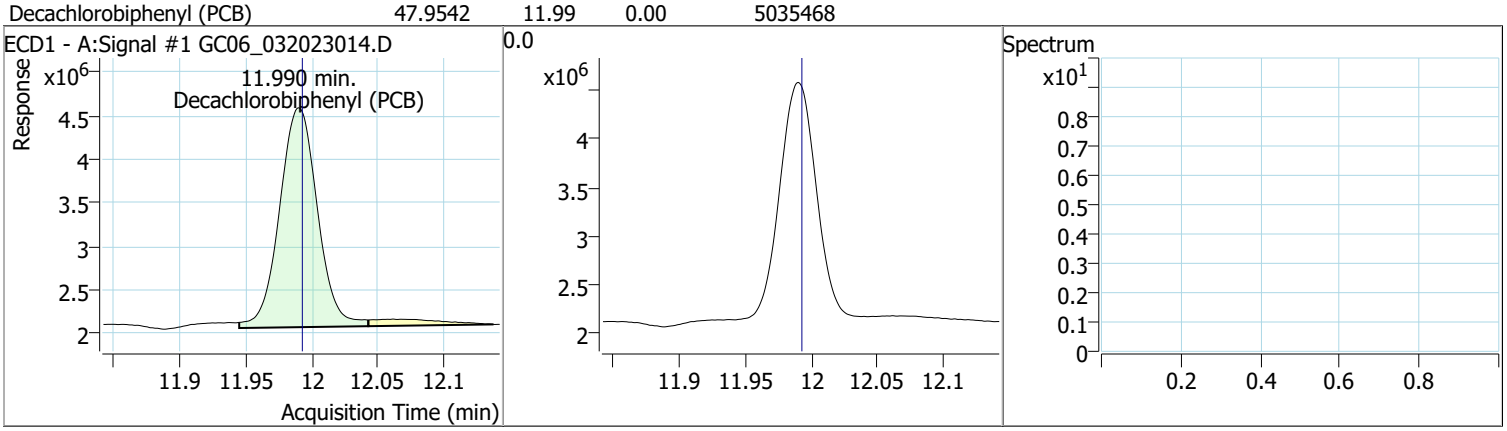
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	404.7197	11.04	0.00	7039518				



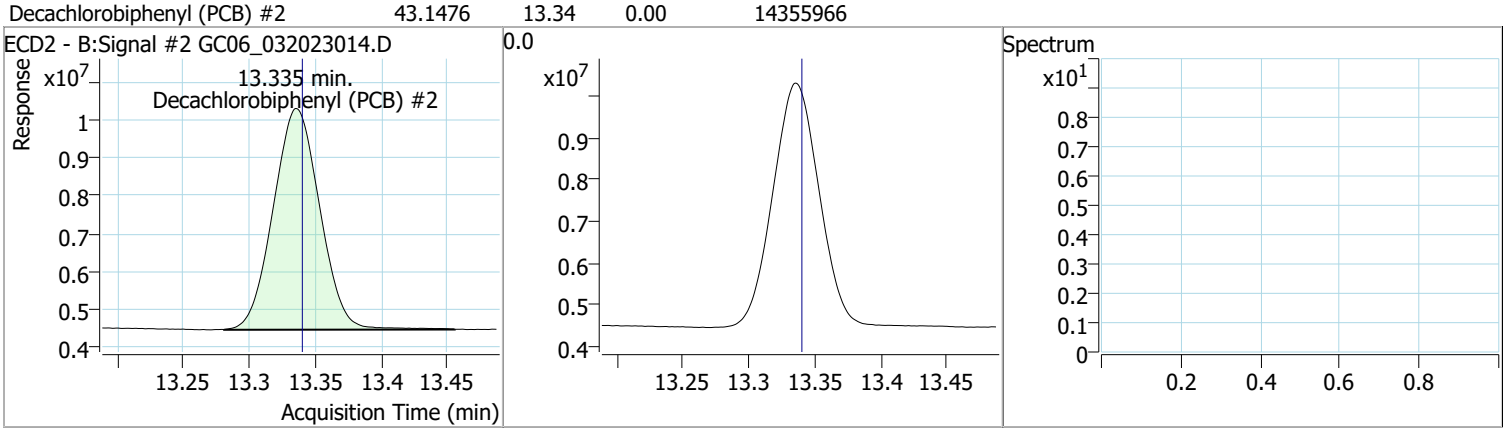
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	384.8750	11.71	0.00	10247187				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	47.9542	11.99	0.00	5035468				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	43.1476	13.34	0.00	14355966				



Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 481683 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_030623_1
Calibration #:	453094313002	Date:	06-MAR-2023 18:11
Units:	ug/L		

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_030623020	453094313020		06-MAR-2023 18:11	S17807
L2	gc06_030623021	453094313021		06-MAR-2023 18:30	S17797
L3	gc06_030623022	453094313022		06-MAR-2023 18:48	S17798
L4	gc06_030623023	453094313023		06-MAR-2023 19:06	S17799
L5	gc06_030623024	453094313024		06-MAR-2023 19:25	S17800
L6	gc06_030623025	453094313025		06-MAR-2023 19:43	S17801
L7	gc06_030623026	453094313026		06-MAR-2023 20:01	S17802
L8	gc06_030623027	453094313027		06-MAR-2023 20:20	S17803
L9	gc06_030623028	453094313028		06-MAR-2023 20:38	S17804
L10	gc06_030623029	453094313029		06-MAR-2023 20:56	S17805

Analyte	Ch	Type	X	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG	R		48.8696		0.0205		15	9	.99	20	
Aroclor-1016 Peak # 2	A	QUAD	A	0.80821	0.04241	-5.11E-6	0.0442	0.999		9	.99	20	
Aroclor-1016 Peak # 3	A	QUAD	A	0.79650	0.05312	-6.64E-6	0.0547	1.000		9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG	R		25.0206		0.0400		17	9	.99	20	
Aroclor-1016 Peak # 5	A	AVRG	R		43.9453		0.0228		14	9	.99	20	
Aroclor-1260 Peak # 1	A	QUAD	A	0.27944	0.07086	-1.25E-5	0.0662	0.999		9	.99	20	
Aroclor-1260 Peak # 2	A	AVRG	R		10.8604		0.0921		17	9	.99	20	
Aroclor-1260 Peak # 3	A	AVRG	R		9.94289		0.1006		18	9	.99	20	
Aroclor-1260 Peak # 4	A	AVRG	R		16.9019		0.0592		19	10	.99	20	
Aroclor-1260 Peak # 5	A	AVRG	R		15.9125		0.0628		11	9	.99	20	
Decachlorobiphenyl (PCB)	A	AVRG	R		0.84070		1.1895		15	9	.99	20	
TCMX (PCB)	A	AVRG	R		1.07797		0.9277		17	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG	R		52.5059		0.0190		11	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG	R		23.7208		0.0422		17	10	.99	20	
Aroclor-1016 Peak # 3	B	AVRG	R		19.4366		0.0514		15	10	.99	20	
Aroclor-1016 Peak # 4	B	AVRG	R		26.3155		0.0380		16	10	.99	20	
Aroclor-1016 Peak # 5	B	AVRG	R		32.3673		0.0309		18	10	.99	20	
Aroclor-1260 Peak # 1	B	AVRG	R		18.8321		0.0531		14	9	.99	20	
Aroclor-1260 Peak # 2	B	AVRG	R		15.4369		0.0648		16	9	.99	20	
Aroclor-1260 Peak # 3	B	AVRG	R		11.6445		0.0859		19	10	.99	20	
Aroclor-1260 Peak # 4	B	AVRG	R		19.8790		0.0503		16	9	.99	20	
Aroclor-1260 Peak # 5	B	AVRG	R		12.9867		0.0770		15	10	.99	20	
Decachlorobiphenyl (PCB)	B	AVRG	R		1.03922		0.9623		13	9	.99	20	
TCMX (PCB)	B	AVRG	R		1.04111		0.9605		19	10	.99	20	

Where the X-Axis holds the (A)mount: Instrument response = a0 + (amount × a1) + (amount² × a2) (invert equation before quantitating)
Where the X-Axis holds the (R)esponse: Instrument amount = a0 + (response × a1) + (response² × a2)
AVRG: Average response factor
QUAD: Quadratic regression

ENTHALPY INITIAL CALIBRATION FOR 481683 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_030623_1
Calibration #:	453094313002	Date:	06-MAR-2023 18:11
Units:	ug/L		

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF	L10 RF
Aroclor-1016 Peak # 1	A		0.0256	0.0227	0.0229	0.0222	0.0206	0.0190	0.0182	0.0170	0.0160
Aroclor-1016 Peak # 2	A		0.0629	0.0499	0.0501	0.0475	0.0431	0.0392	0.0375	0.0353	0.0327
Aroclor-1016 Peak # 3	A		0.0790	0.0630	0.0607	0.0576	0.0522	0.0480	0.0475	0.0437	0.0403
Aroclor-1016 Peak # 4	A		0.0522	0.0443	0.0445	0.0429	0.0398	0.0367	0.0353	0.0333	0.0307
Aroclor-1016 Peak # 5	A		0.0258	0.0246	0.0264	0.0260	0.0235	0.0213	0.0207	0.0192	0.0174
Aroclor-1260 Peak # 1	A		0.0978	0.0710	0.0742	0.0714	0.0634	0.0602	0.0597	0.0527	0.0457
Aroclor-1260 Peak # 2	A		0.1159	0.0996	0.1061	0.1022	0.0920	0.0845	0.0841	0.0776	0.0667
Aroclor-1260 Peak # 3	A		0.1363	0.1095	0.1113	0.1090	0.0977	0.0915	0.0930	0.0848	0.0722
Aroclor-1260 Peak # 4	A	0.0816	0.0713	0.0547	0.0630	0.0628	0.0573	0.0534	0.0551	0.0498	0.0425
Aroclor-1260 Peak # 5	A		0.0740	0.0633	0.0681	0.0687	0.0631	0.0597	0.0621	0.0578	0.0489
Decachlorobiphenyl (PCB)	A		1.5624	1.1536	1.2711	1.1231	1.2297	1.1105	1.2521	1.1022	0.9007
TCMX (PCB)	A		1.2871	1.0300	0.9948	0.8857	0.8813	0.8190	0.8223	0.8236	0.8051
Aroclor-1016 Peak # 1	B		0.0228	0.0199	0.0209	0.0203	0.0193	0.0182	0.0174	0.0167	0.0159
Aroclor-1016 Peak # 2	B	0.0582	0.0478	0.0423	0.0442	0.0430	0.0410	0.0385	0.0371	0.0357	0.0336
Aroclor-1016 Peak # 3	B	0.0695	0.0583	0.0502	0.0535	0.0525	0.0492	0.0468	0.0461	0.0456	0.0427
Aroclor-1016 Peak # 4	B	0.0513	0.0449	0.0379	0.0392	0.0387	0.0367	0.0347	0.0340	0.0325	0.0303
Aroclor-1016 Peak # 5	B	0.0436	0.0367	0.0303	0.0311	0.0309	0.0296	0.0279	0.0276	0.0267	0.0245
Aroclor-1260 Peak # 1	B		0.0679	0.0539	0.0575	0.0572	0.0528	0.0492	0.0497	0.0474	0.0423
Aroclor-1260 Peak # 2	B		0.0858	0.0690	0.0706	0.0693	0.0634	0.0586	0.0596	0.0571	0.0496
Aroclor-1260 Peak # 3	B	0.1203	0.1074	0.0807	0.0851	0.0868	0.0811	0.0783	0.0813	0.0736	0.0641
Aroclor-1260 Peak # 4	B		0.0690	0.0503	0.0517	0.0525	0.0495	0.0462	0.0482	0.0456	0.0399
Aroclor-1260 Peak # 5	B	0.0981	0.0905	0.0705	0.0752	0.0793	0.0755	0.0747	0.0808	0.0679	0.0575
Decachlorobiphenyl (PCB)	B		1.2037	0.9076	1.0125	0.9044	1.0117	0.9102	1.0415	0.9146	0.7542
TCMX (PCB)	B	1.4319	1.0764	0.9437	0.9509	0.8748	0.8990	0.8507	0.8592	0.8647	0.8537

ENTHALPY INITIAL CALIBRATION FOR 481683 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_030623_1
Calibration #:	453094313002	Date:	06-MAR-2023 18:11
Units:	ug/L		

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A			20.000	**25**	50.000	11	100.00	12	250.00	9	500.00	1	749.91	-7	1000.0	-11
Aroclor-1016 Peak # 2	A			20.000	**-47**	50.000	-20	100.00	0	250.00	8	500.00	4	749.91	-1	1000.0	-2
Aroclor-1016 Peak # 3	A			20.000	**-26**	50.000	-11	100.00	0	250.00	6	500.00	2	749.91	-3	1000.0	1
Aroclor-1016 Peak # 4	A			20.000	**31**	50.000	11	100.00	11	250.00	7	500.00	-1	749.91	-8	1000.0	-12
Aroclor-1016 Peak # 5	A			20.000	13	50.000	8	100.00	16	250.00	14	500.00	3	749.91	-6	1000.0	-9
Aroclor-1260 Peak # 1	A			20.000	19	50.000	-7	100.00	3	250.00	4	500.00	-3	749.91	-3	1000.0	2
Aroclor-1260 Peak # 2	A			20.000	**26**	50.000	8	100.00	15	250.00	11	500.00	0	749.91	-8	1000.0	-9
Aroclor-1260 Peak # 3	A			20.000	**36**	50.000	9	100.00	11	250.00	8	500.00	-3	749.91	-9	1000.0	-8
Aroclor-1260 Peak # 4	A	10.000	**38**	20.000	**21**	50.000	-7	100.00	6	250.00	6	500.00	-3	749.91	-10	1000.0	-7
Aroclor-1260 Peak # 5	A			20.000	18	50.000	1	100.00	8	250.00	9	500.00	0	749.91	-5	1000.0	-1
Decachlorobiphenyl (PCB)	A			1.6000	**31**	4.0000	-3	8.0000	7	20.000	-6	40.000	3	59.993	-7	80.000	5
TCMX (PCB)	A			1.6000	**39**	4.0000	11	8.0000	7	20.000	-5	40.000	-5	59.993	-12	80.000	-11
Aroclor-1016 Peak # 1	B			20.000	20	50.000	4	100.00	9	250.00	7	500.00	1	749.91	-5	1000.0	-8
Aroclor-1016 Peak # 2	B	10.000	**38**	20.000	14	50.000	0	100.00	5	250.00	2	500.00	-3	749.91	-9	1000.0	-12
Aroclor-1016 Peak # 3	B	10.000	**35**	20.000	13	50.000	-2	100.00	4	250.00	2	500.00	-4	749.91	-9	1000.0	-10
Aroclor-1016 Peak # 4	B	10.000	**35**	20.000	18	50.000	0	100.00	3	250.00	2	500.00	-4	749.91	-9	1000.0	-11
Aroclor-1016 Peak # 5	B	10.000	**41**	20.000	19	50.000	-2	100.00	1	250.00	0	500.00	-4	749.91	-10	1000.0	-11
Aroclor-1260 Peak # 1	B			20.000	**28**	50.000	1	100.00	8	250.00	8	500.00	-1	749.91	-7	1000.0	-6
Aroclor-1260 Peak # 2	B			20.000	**32**	50.000	7	100.00	9	250.00	7	500.00	-2	749.91	-9	1000.0	-8
Aroclor-1260 Peak # 3	B	10.000	**40**	20.000	**25**	50.000	-6	100.00	-1	250.00	1	500.00	-6	749.91	-9	1000.0	-5
Aroclor-1260 Peak # 4	B			20.000	**37**	50.000	0	100.00	3	250.00	4	500.00	-2	749.91	-8	1000.0	-4
Aroclor-1260 Peak # 5	B	10.000	**27**	20.000	18	50.000	-8	100.00	-2	250.00	3	500.00	-2	749.91	-3	1000.0	5
Decachlorobiphenyl (PCB)	B			1.6000	**25**	4.0000	-6	8.0000	5	20.000	-6	40.000	5	59.993	-5	80.000	8
TCMX (PCB)	B	0.8000	**49**	1.6000	12	4.0000	-2	8.0000	-1	20.000	-9	40.000	-6	59.993	-11	80.000	-11

ENTHALPY INITIAL CALIBRATION FOR 481683 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_030623_1
Calibration #:	453094313002	Date:	06-MAR-2023 18:11
Units:	ug/L		

Spiked Amounts / Drifts	Ch	L9	%D	L10	%D
Aroclor-1016 Peak # 1	A	1500.0	-17	2000.0	**-22**
Aroclor-1016 Peak # 2	A	1500.0	0	2000.0	0
Aroclor-1016 Peak # 3	A	1500.0	0	2000.0	0
Aroclor-1016 Peak # 4	A	1500.0	-17	2000.0	**-23**
Aroclor-1016 Peak # 5	A	1500.0	-16	2000.0	**-23**
Aroclor-1260 Peak # 1	A	1500.0	1	2000.0	-1
Aroclor-1260 Peak # 2	A	1500.0	-16	2000.0	**-28**
Aroclor-1260 Peak # 3	A	1500.0	-16	2000.0	**-28**
Aroclor-1260 Peak # 4	A	1500.0	-16	2000.0	**-28**
Aroclor-1260 Peak # 5	A	1500.0	-8	2000.0	**-22**
Decachlorobiphenyl (PCB)	A	120.00	-7	160.00	**-24**
TCMX (PCB)	A	120.00	-11	160.00	-13
Aroclor-1016 Peak # 1	B	1500.0	-12	2000.0	-16
Aroclor-1016 Peak # 2	B	1500.0	-15	2000.0	-20
Aroclor-1016 Peak # 3	B	1500.0	-11	2000.0	-17
Aroclor-1016 Peak # 4	B	1500.0	-15	2000.0	-20
Aroclor-1016 Peak # 5	B	1500.0	-14	2000.0	**-21**
Aroclor-1260 Peak # 1	B	1500.0	-11	2000.0	-20
Aroclor-1260 Peak # 2	B	1500.0	-12	2000.0	**-23**
Aroclor-1260 Peak # 3	B	1500.0	-14	2000.0	**-25**
Aroclor-1260 Peak # 4	B	1500.0	-9	2000.0	**-21**
Aroclor-1260 Peak # 5	B	1500.0	-12	2000.0	**-25**
Decachlorobiphenyl (PCB)	B	120.00	-5	160.00	**-22**
TCMX (PCB)	B	120.00	-10	160.00	-11

TJW 03/07/23 : Manually integrated due to baseline corrections for all channels in multiple levels

Analyst: TJW 03/07/23

Reviewer: LW 03/08/23

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 481683 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Name:	PCB_030623_1
Calnum:	453094313002	Cal Date:	06-MAR-2023

- ICV 453094313031 (gc06_030623031 06-MAR-2023) stds: S17806

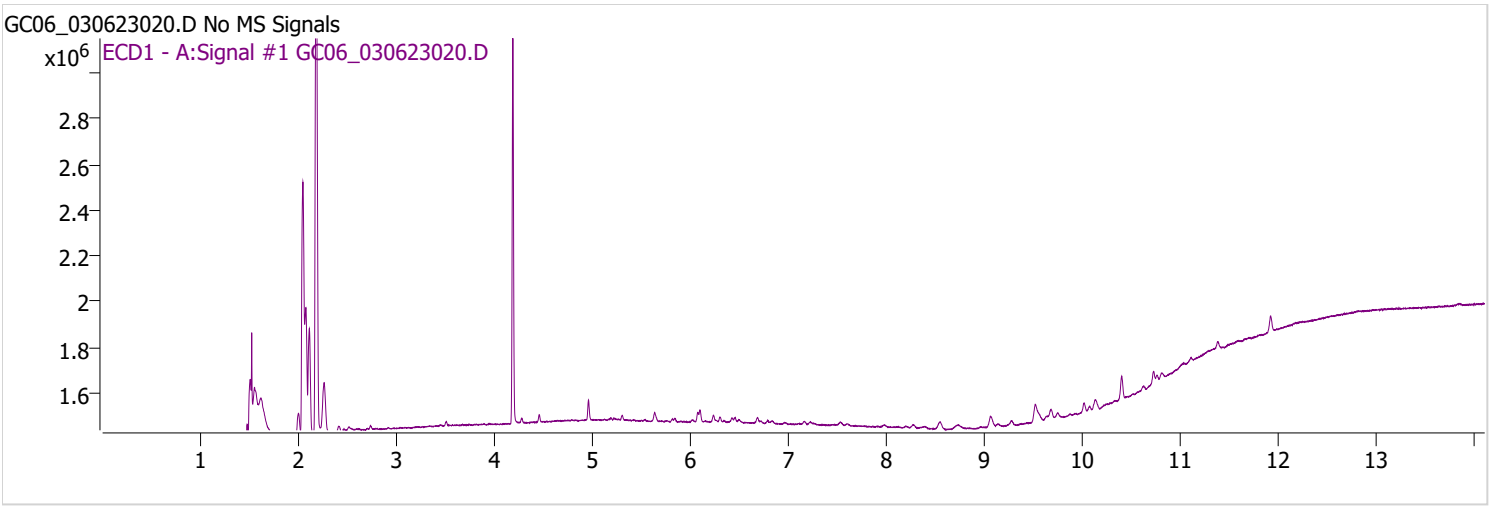
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	509.4	ug/L	2	15	
Aroclor-1260	A	500.0	505.4	ug/L	1	15	
Aroclor-1016	B	500.0	494.8	ug/L	-1	15	
Aroclor-1260	B	500.0	495.9	ug/L	-1	15	

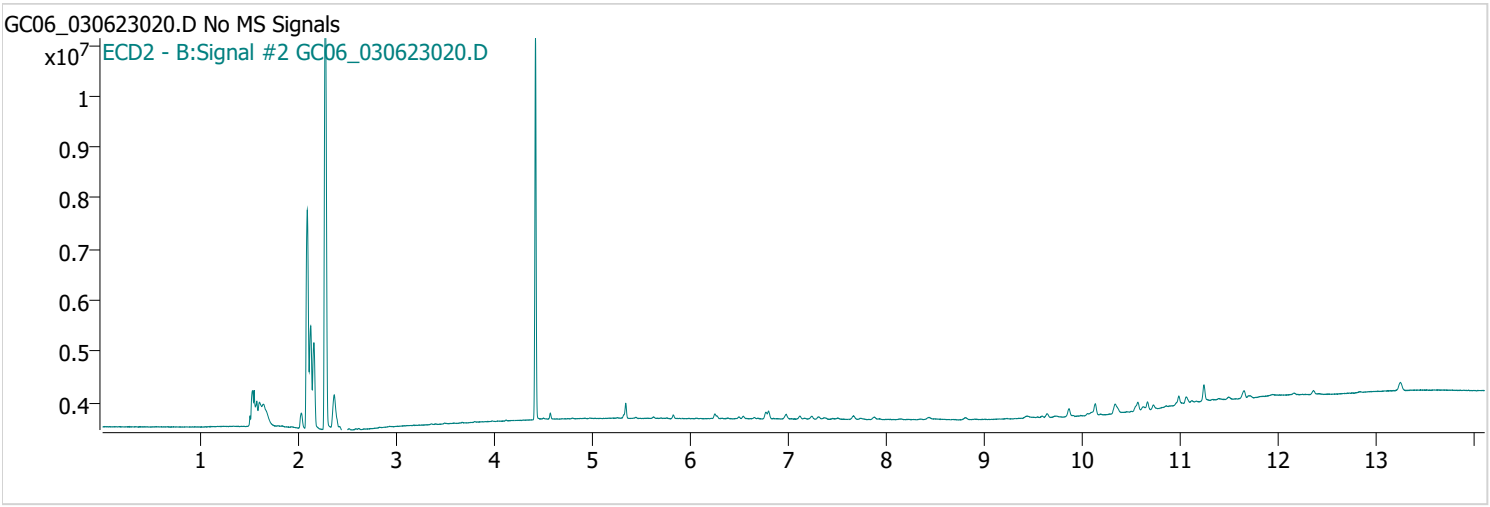
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Analyst: TJW 03/07/23 **Reviewer:** LW 03/08/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_030623020.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/6/2023 6:11:50 PM
Sample Name	ICAL, S17807	Instrument	SVOA-GC06
Vial	11	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	030623PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



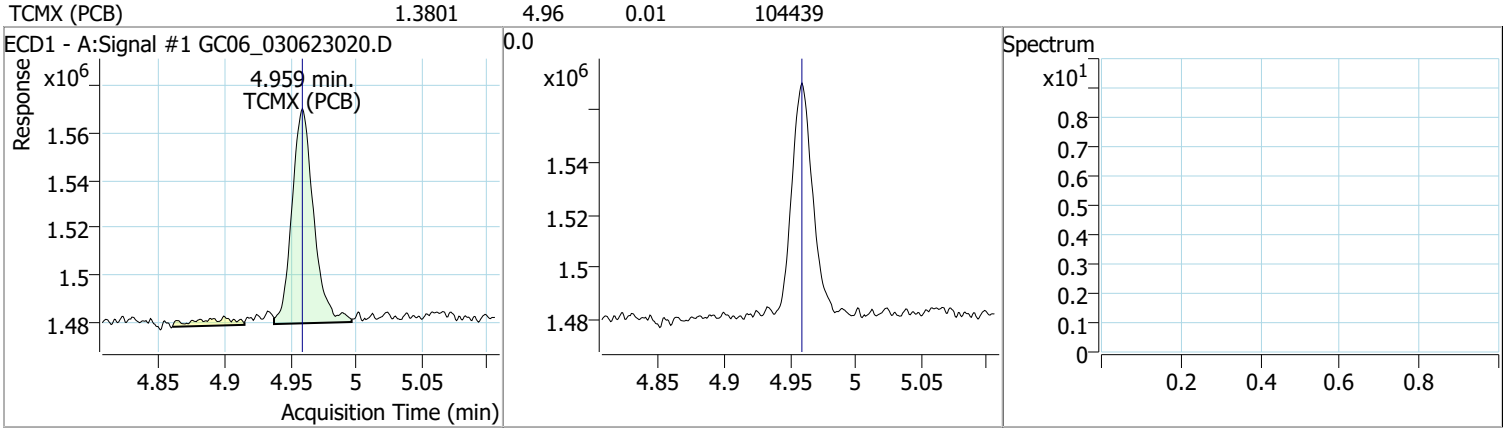


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.187	0.0	1631567.202	20.0000	ng/ml		0.008
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	6648507.757	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.959	0.0	104439.206	1.3801	ng/ml		0.010
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 6.90%		*	
S TCMX (PCB) #2	5.339	0.0	380806.725	1.1926	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 5.96%		*	
S Decachlorobiphenyl (PCB)	11.919	0.0	128738.701	1.3267	ng/ml		0.016
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 6.63%		*	
S Decachlorobiphenyl (PCB) #2	13.246	0.0	406519.848	1.2709	ng/ml		0.006
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 6.35%		*	
Target Compounds							QValue
T AR1016 1	5.303	0.0	29204.682	17.4953	ng/ml		100
T AR1016 2	5.634	0.0	66128.177	0.0528	ng/ml		100
T AR1016 1 #2	5.823	0.0	101467.698	16.0268	ng/ml		100

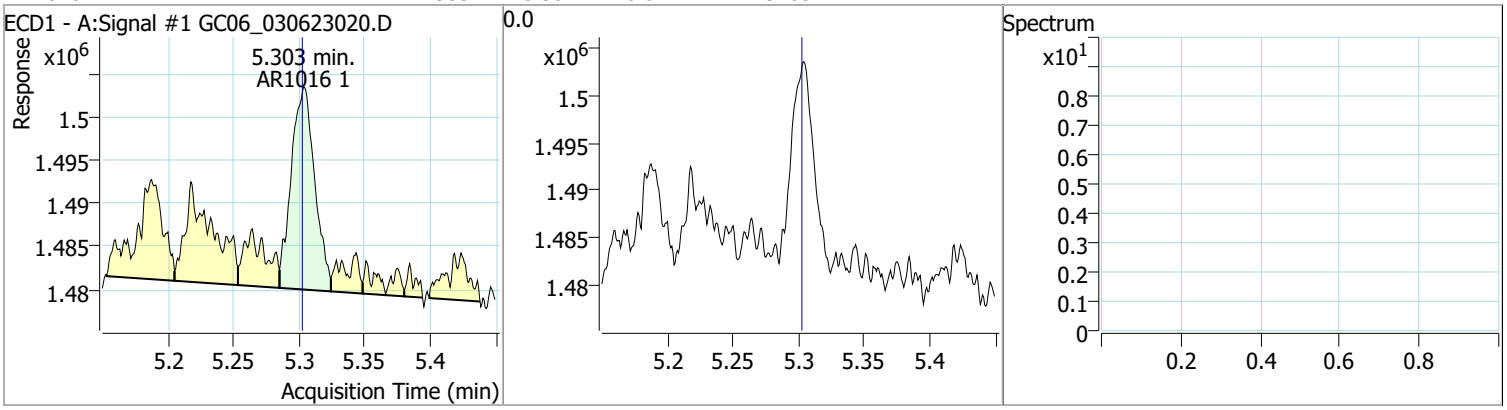
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 3	6.096	0.0	70669.246	1.3098	ng/ml		100
T AR1016 4	6.234	0.0	54150.861	16.6086	ng/ml		100
T AR1016 2 #2	6.249	0.0	193610.202	13.8156	ng/ml	m	100
T AR1016 5	6.424	0.0	30576.496	16.4714	ng/ml	m	100
T AR1016 3 #2	6.797	0.0	231123.160	13.5137	ng/ml		100
T AR1016 4 #2	6.978	0.0	170570.568	13.5029	ng/ml		100
T AR1016 5 #2	7.663	0.0	144927.749	14.1113	ng/ml		100
T AR1260 1	8.546	0.0	94967.728	12.5103	ng/ml		100
T AR1260 2	9.060	0.0	122204.071	16.2690	ng/ml		100
T AR1260 3	9.518	0.0	228256.246	27.8206	ng/ml		100
T AR1260 1 #2	9.864	0.0	287591.485	16.2924	ng/ml		100
T AR1260 4	10.019	0.0	66557.633	13.7900	ng/ml		100
T AR1260 2 #2	10.132	0.0	381245.866	17.7042	ng/ml	m	100
T AR1260 3 #2	10.567	0.0	400031.841	14.0128	ng/ml		100
T AR1260 5	10.728	0.0	98198.855	19.1547	ng/ml		100
T AR1260 4 #2	10.984	0.0	280596.576	16.7798	ng/ml		100
T AR1260 5 #2	11.652	0.0	325982.881	12.7351	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

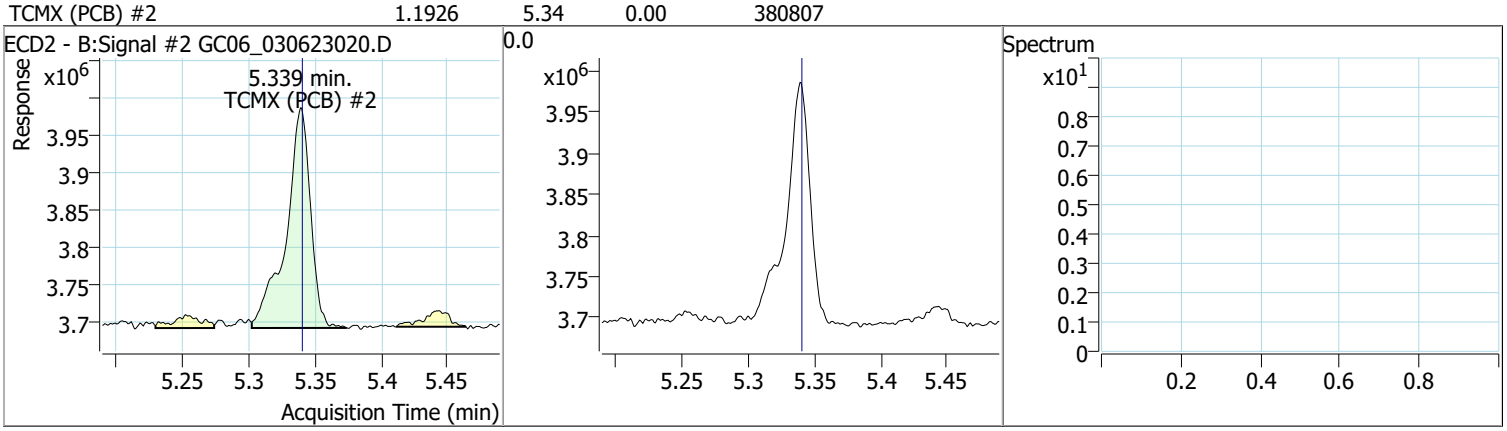
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	1.3801	4.96	0.01	104439				



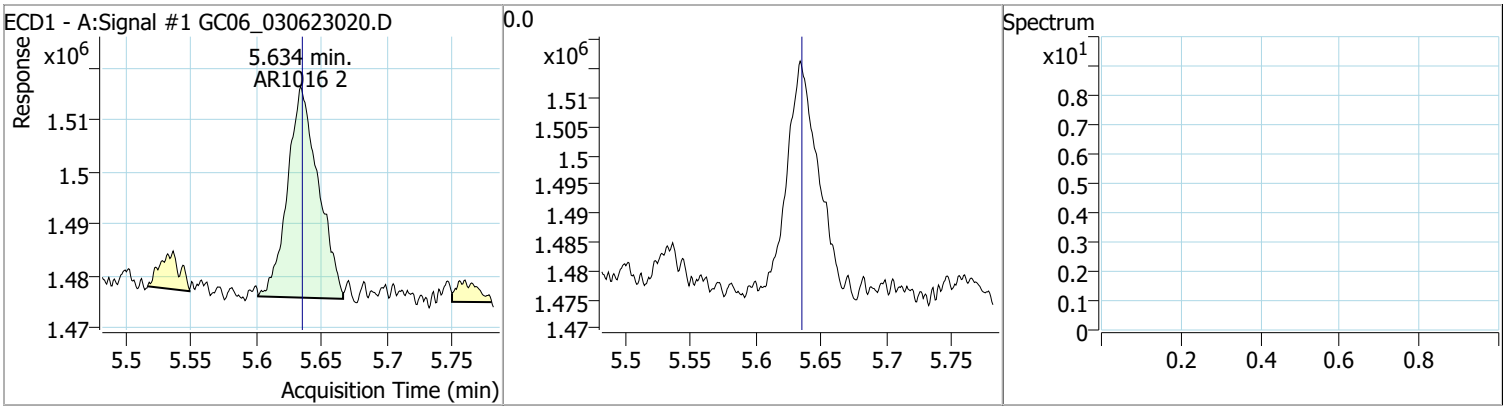
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	17.4953	5.30	0.01	29205				



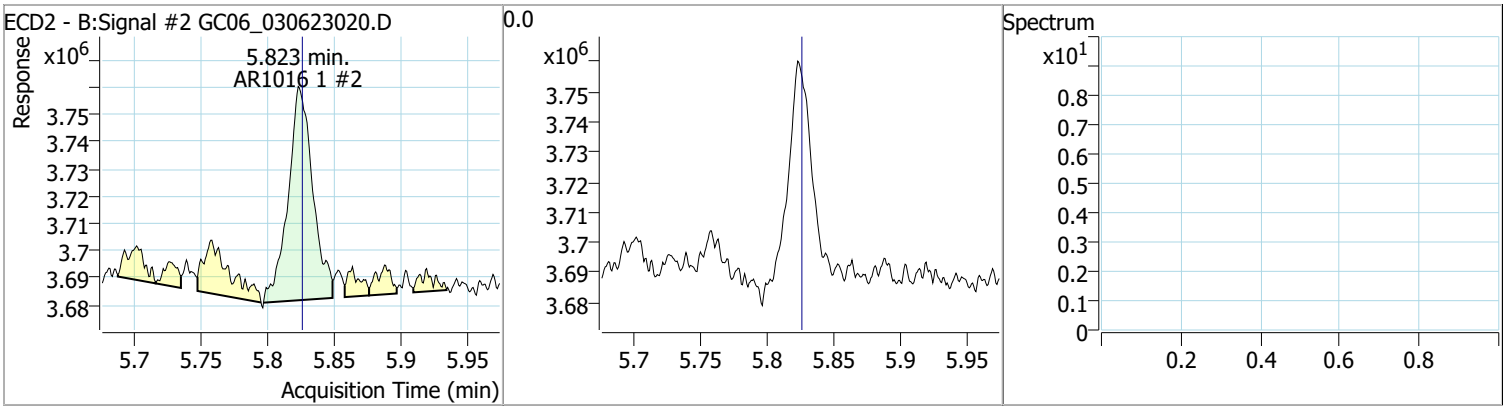
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	1.1926	5.34	0.00	380807				



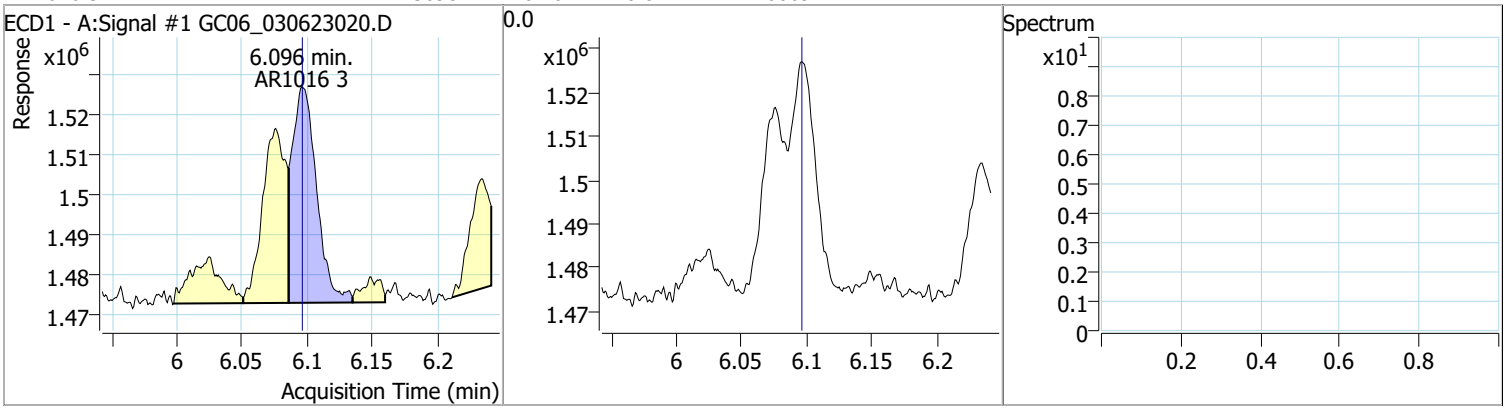
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0528	5.63	0.01	66128				



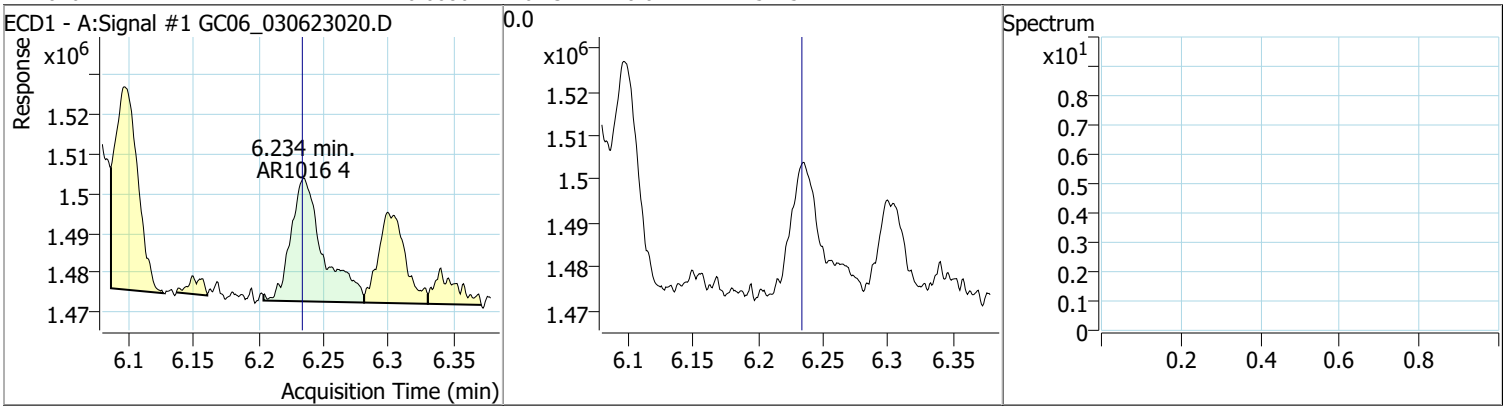
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	16.0268	5.82	0.00	101468				



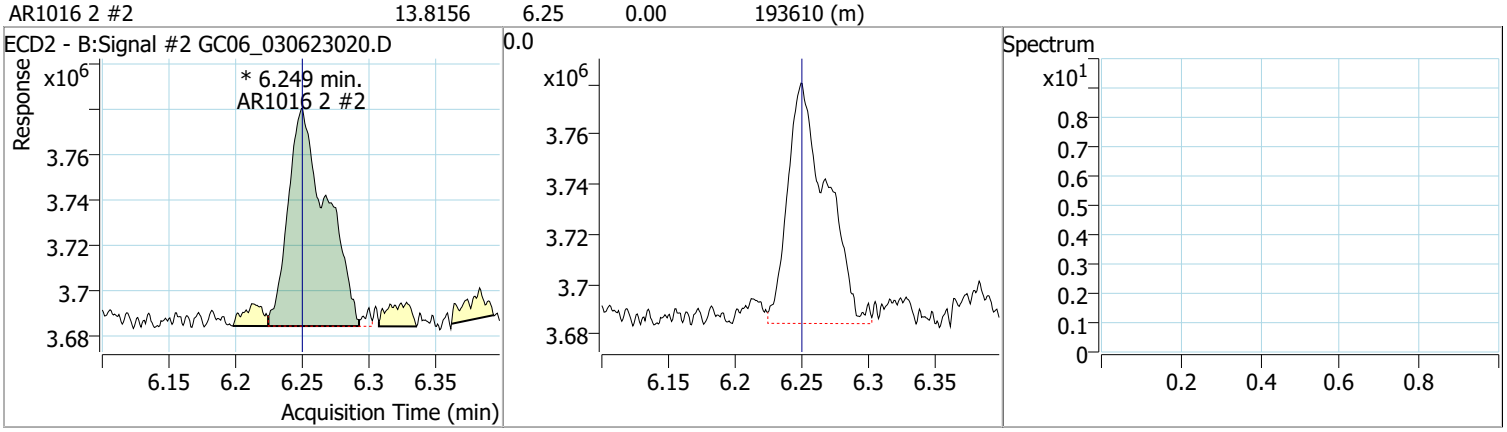
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	1.3098	6.10	0.01	70669				



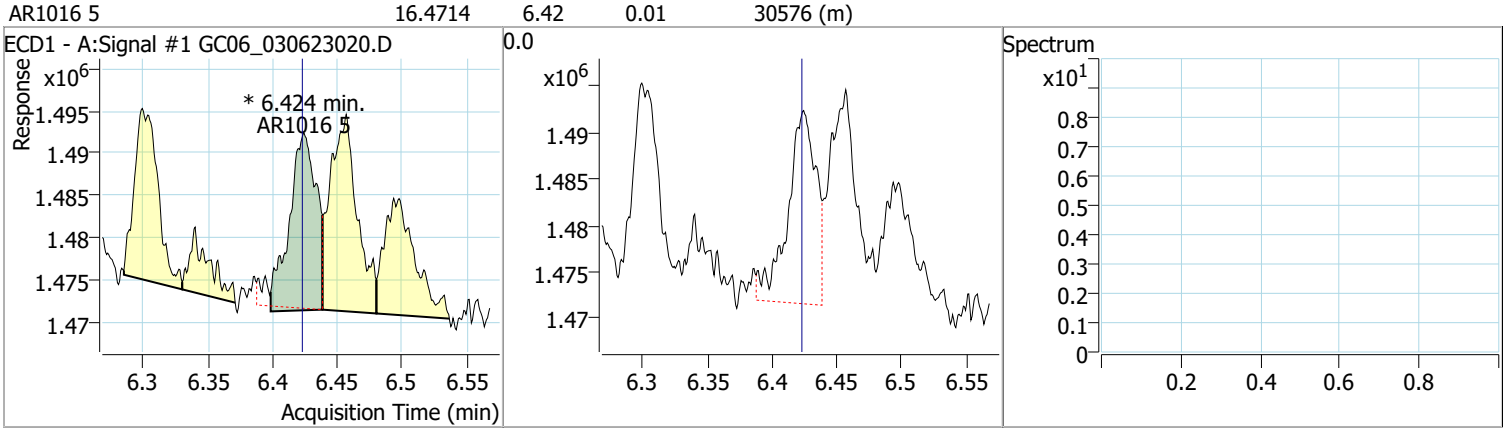
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	16.6086	6.23	0.01	54151				



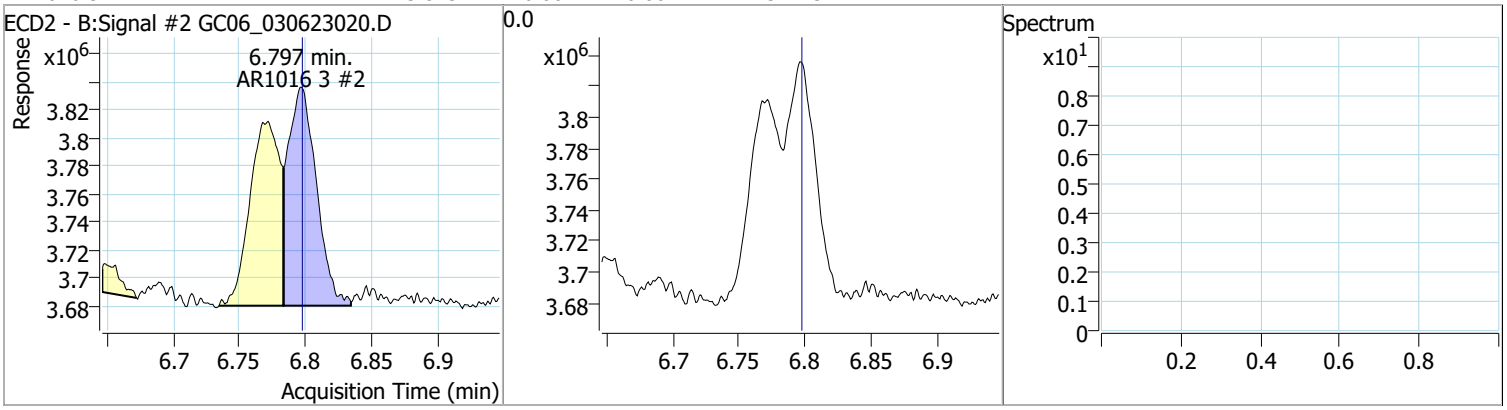
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	13.8156	6.25	0.00	193610 (m)				



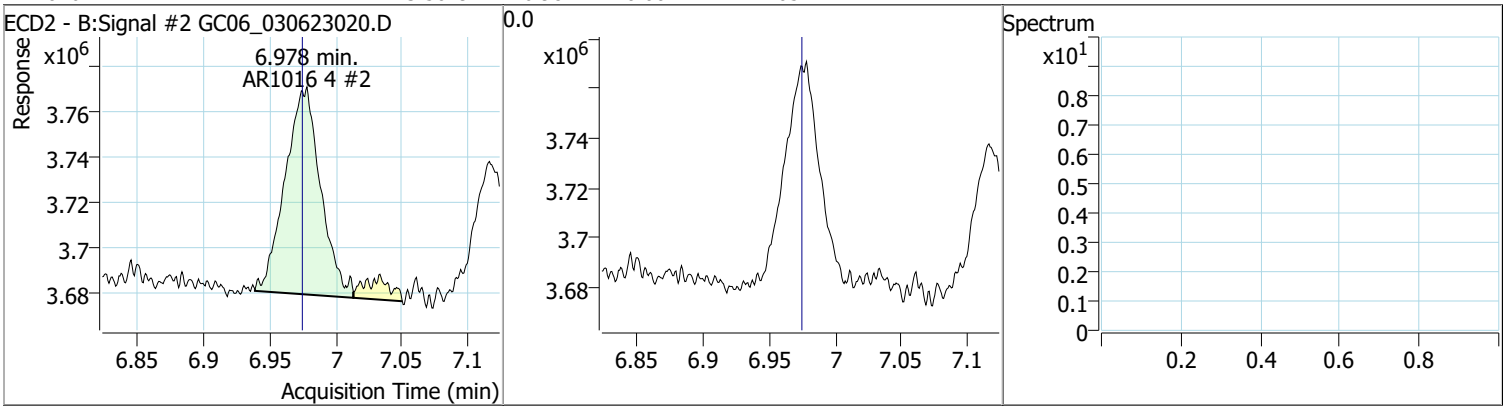
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	16.4714	6.42	0.01	30576 (m)				



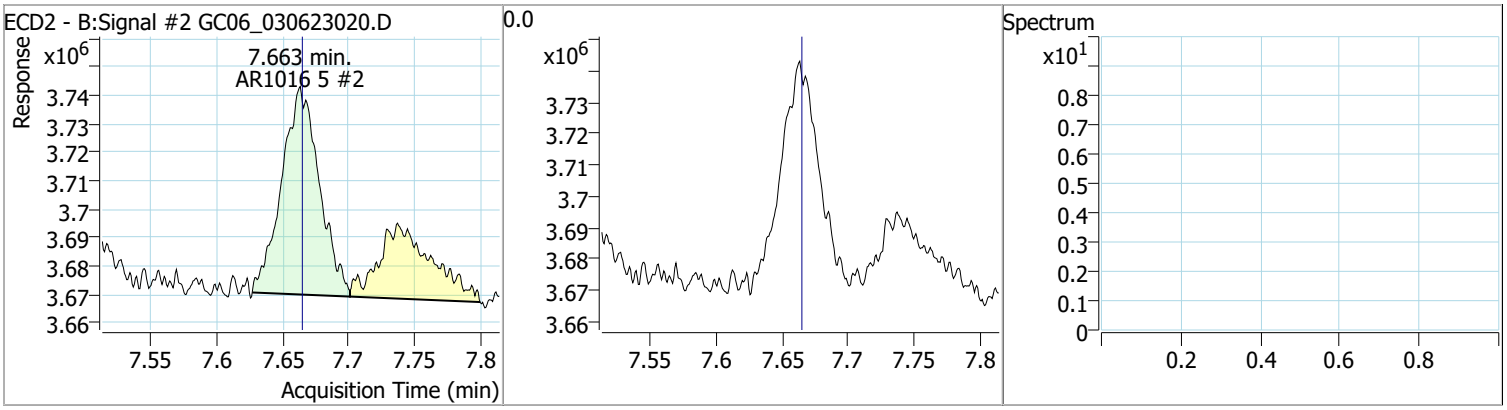
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	13.5137	6.80	0.00	231123				



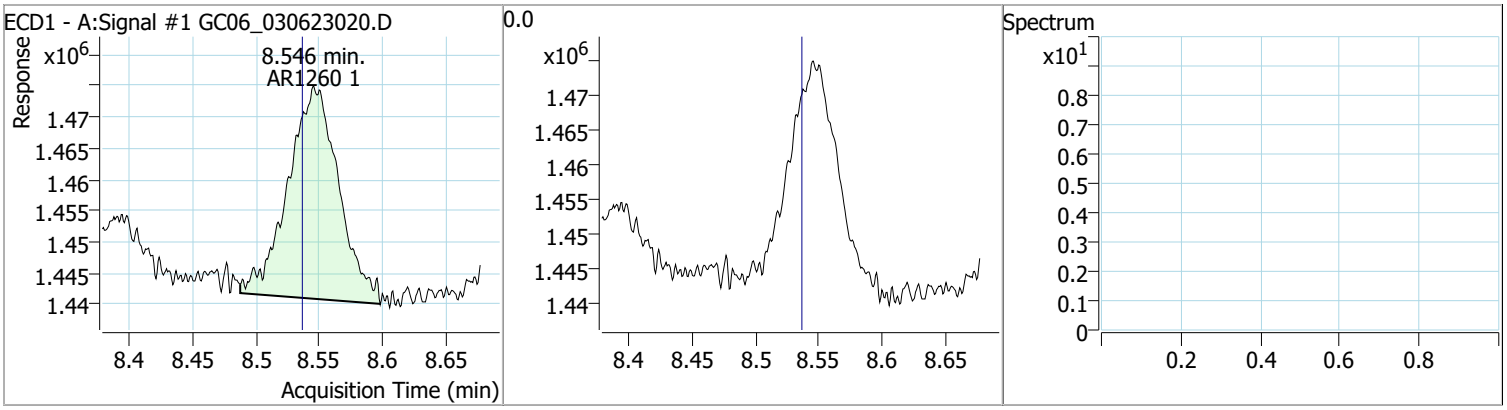
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	13.5029	6.98	0.00	170571				



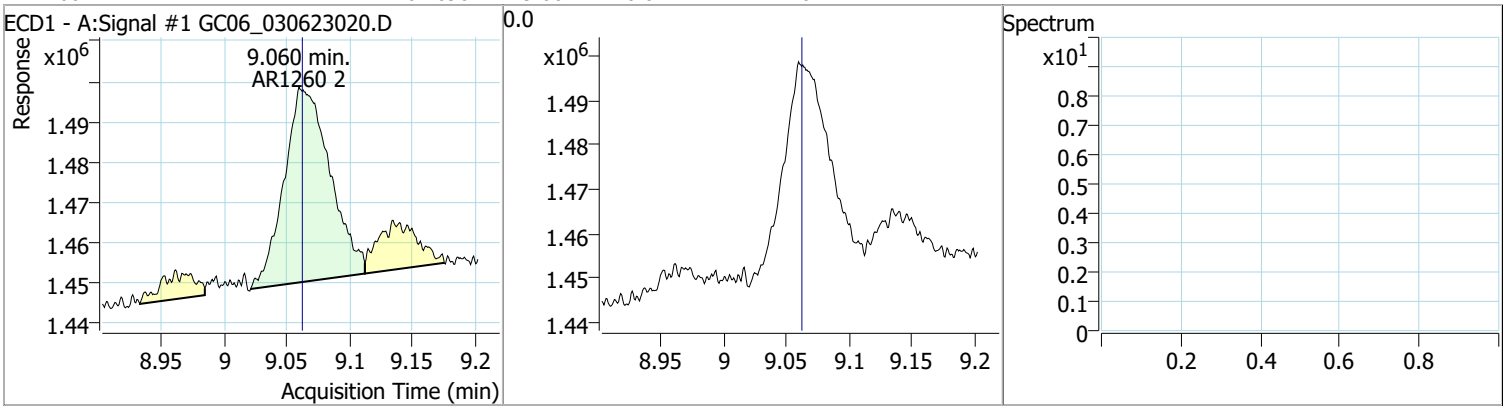
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	14.1113	7.66	0.00	144928				



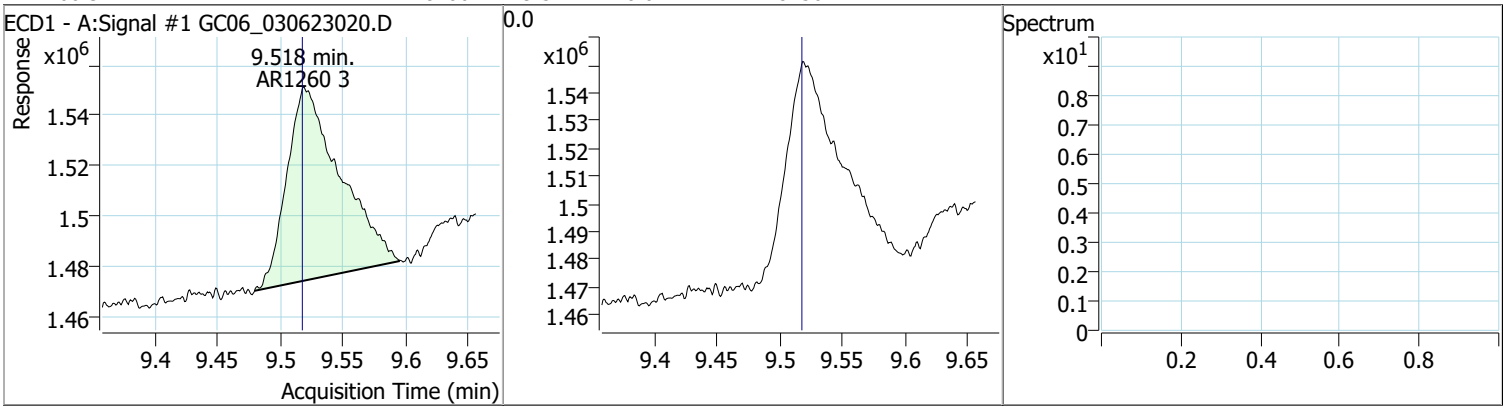
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	12.5103	8.55	0.03	94968				



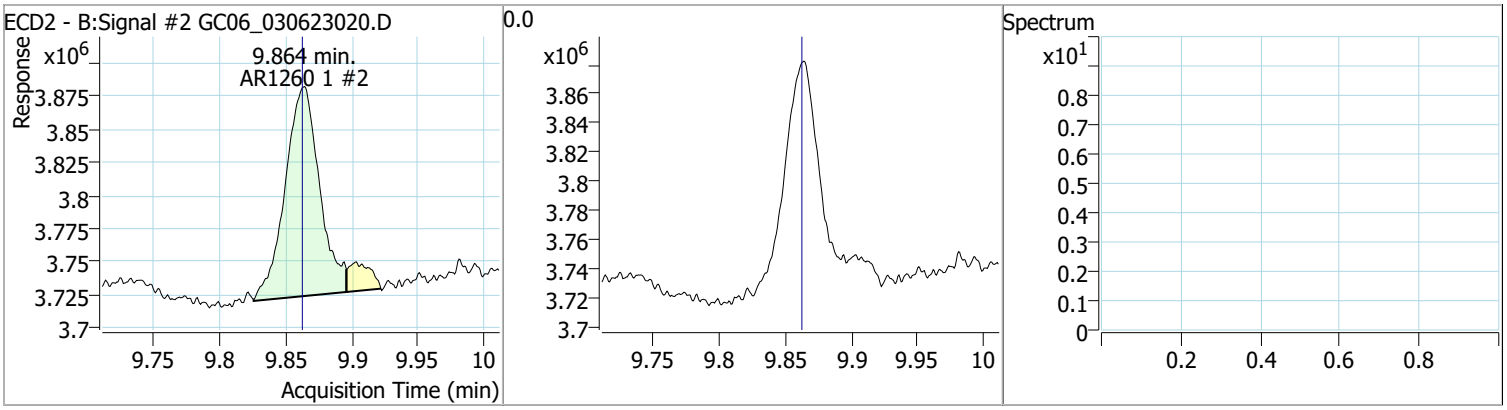
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	16.2690	9.06	0.01	122204				



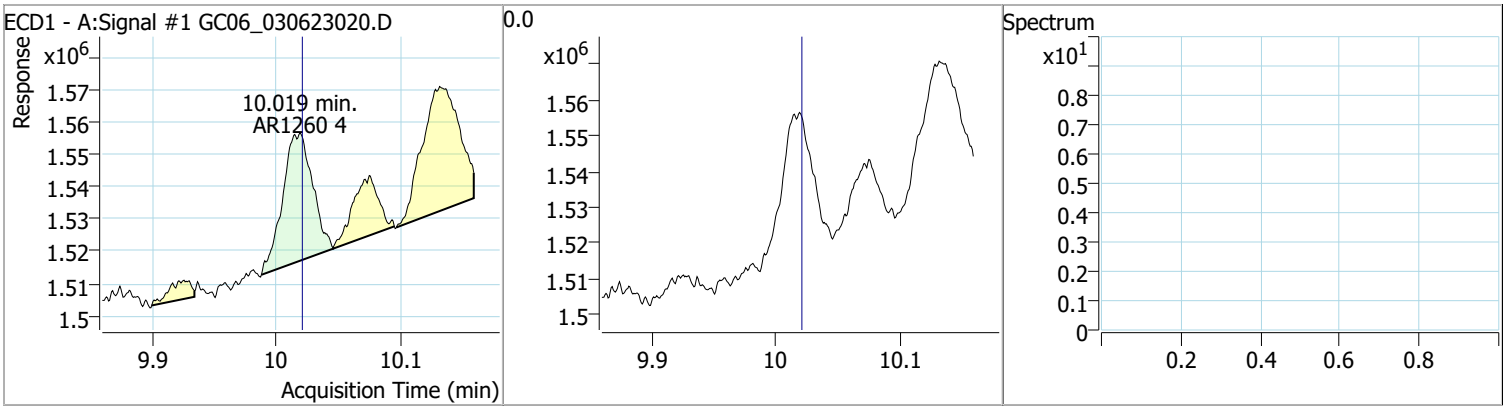
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	27.8206	9.52	0.02	228256				



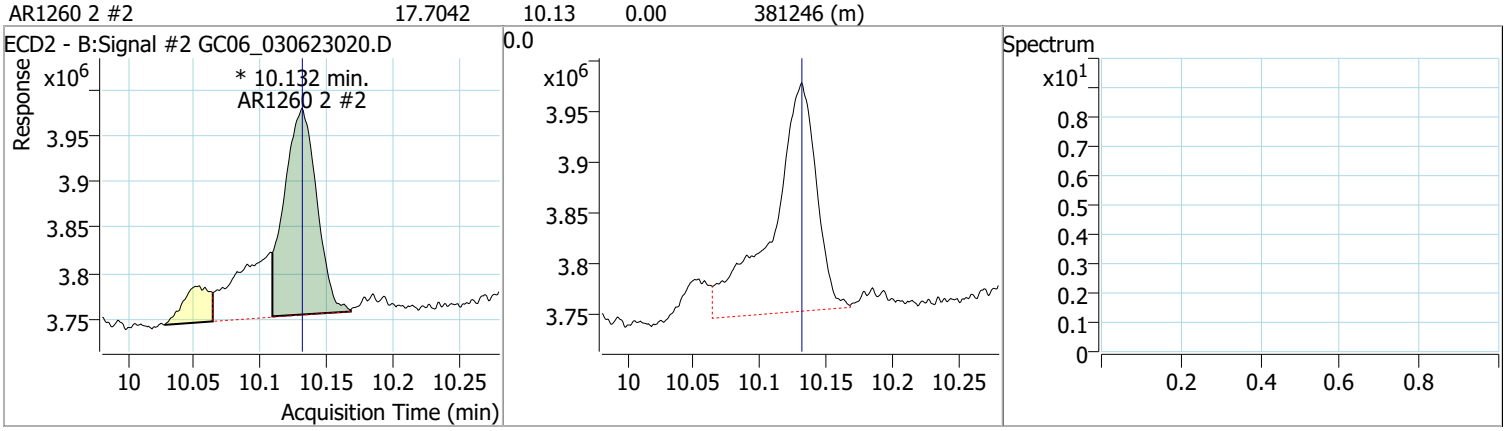
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	16.2924	9.86	0.00	287591				



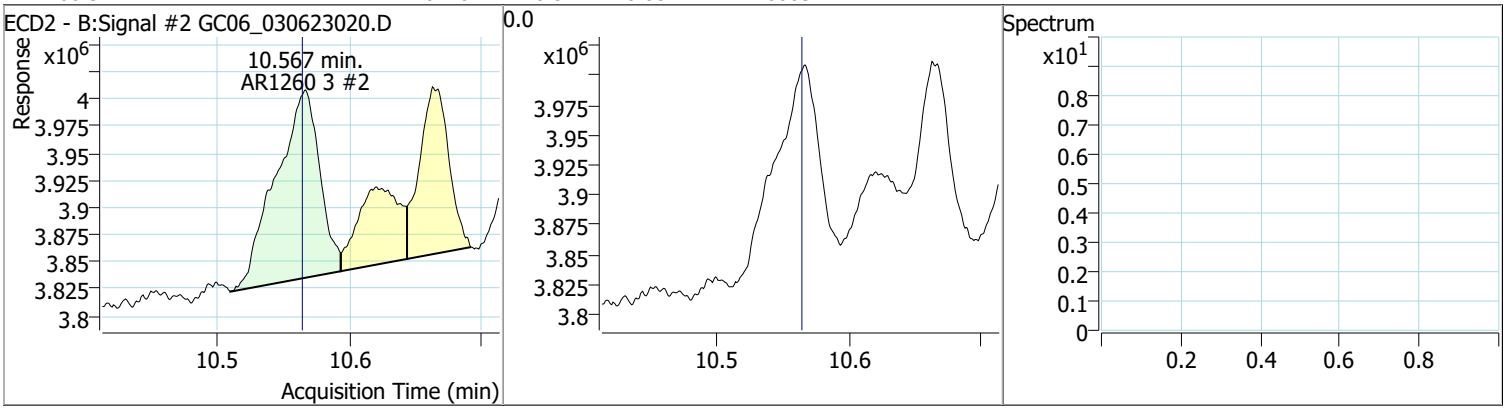
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	13.7900	10.02	0.02	66558				



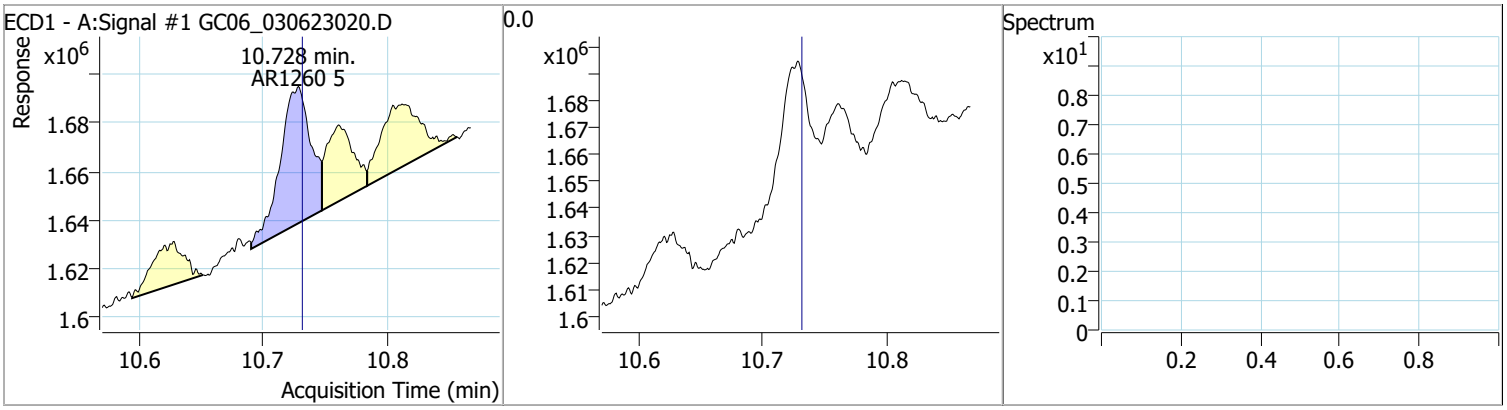
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	17.7042	10.13	0.00	381246 (m)				



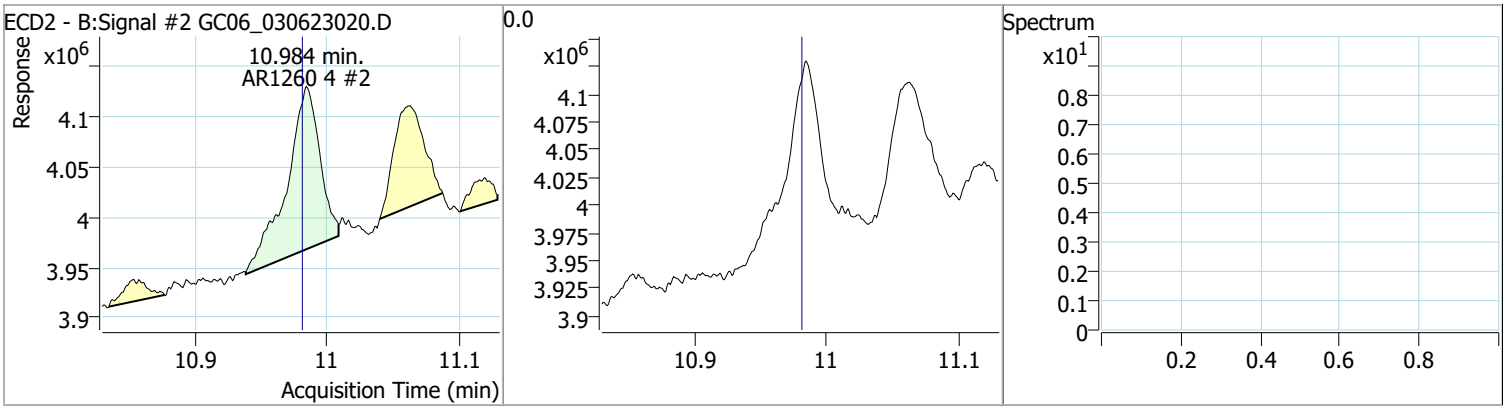
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	14.0128	10.57	0.00	400032				



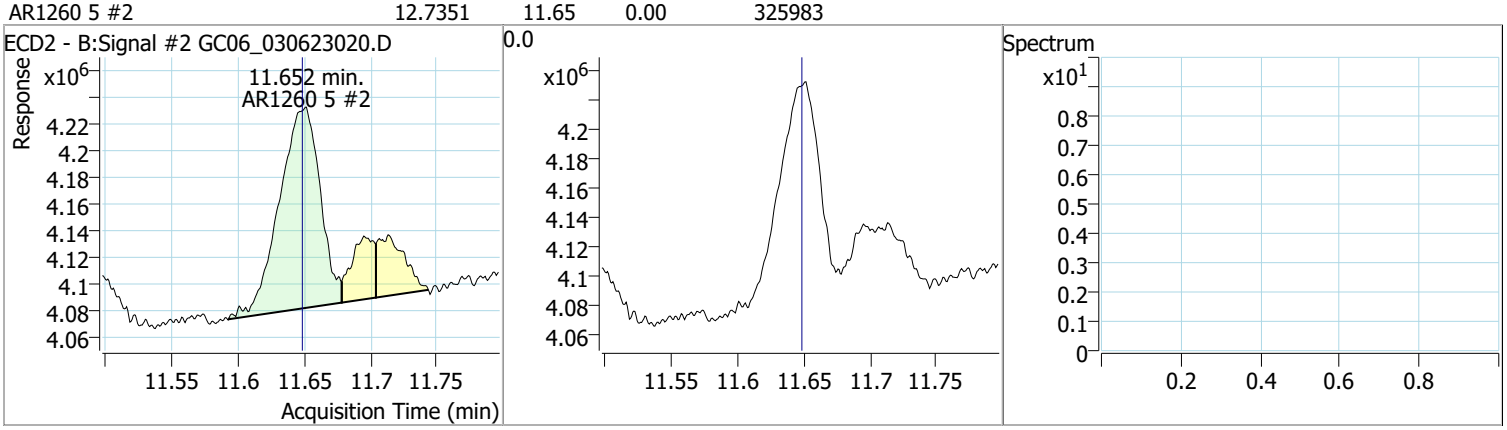
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	19.1547	10.73	0.02	98199				



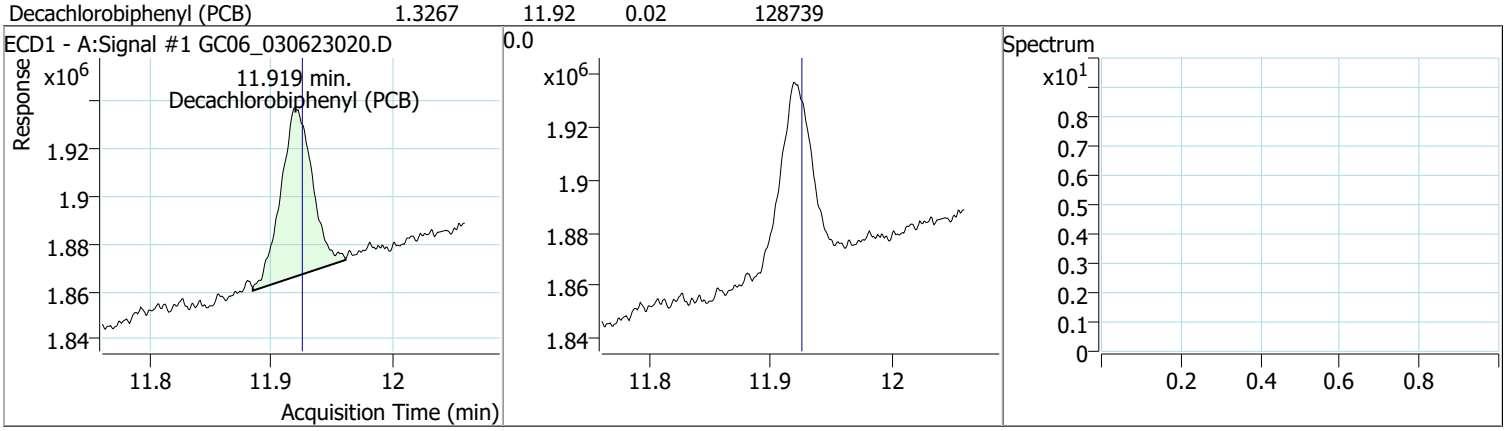
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	16.7798	10.98	0.00	280597				



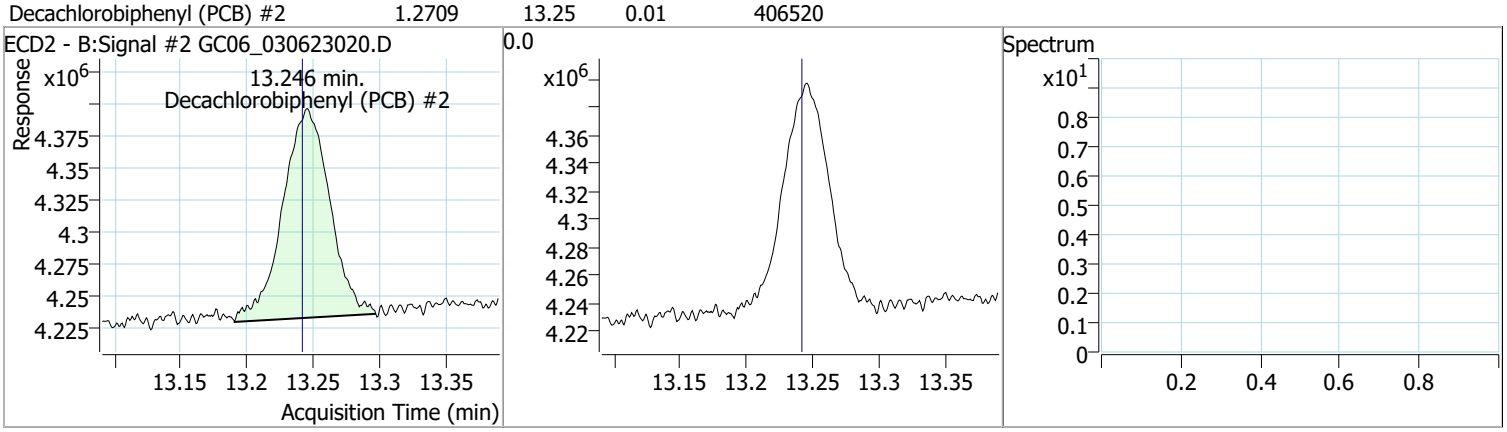
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	12.7351	11.65	0.00	325983				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	1.3267	11.92	0.02	128739				

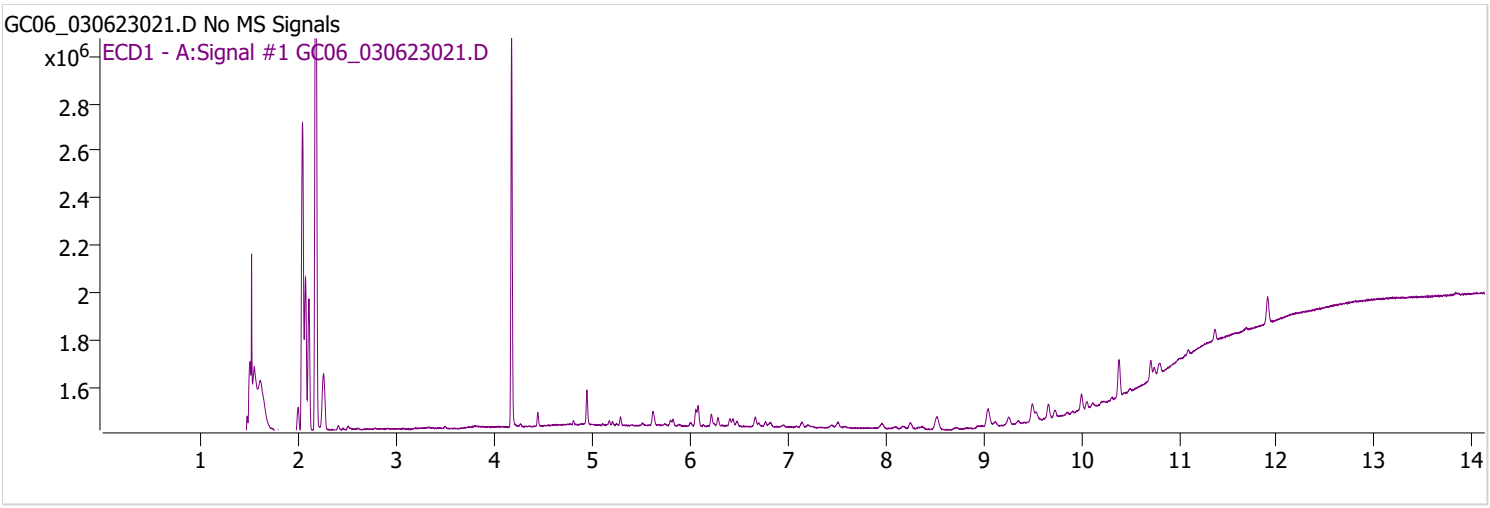


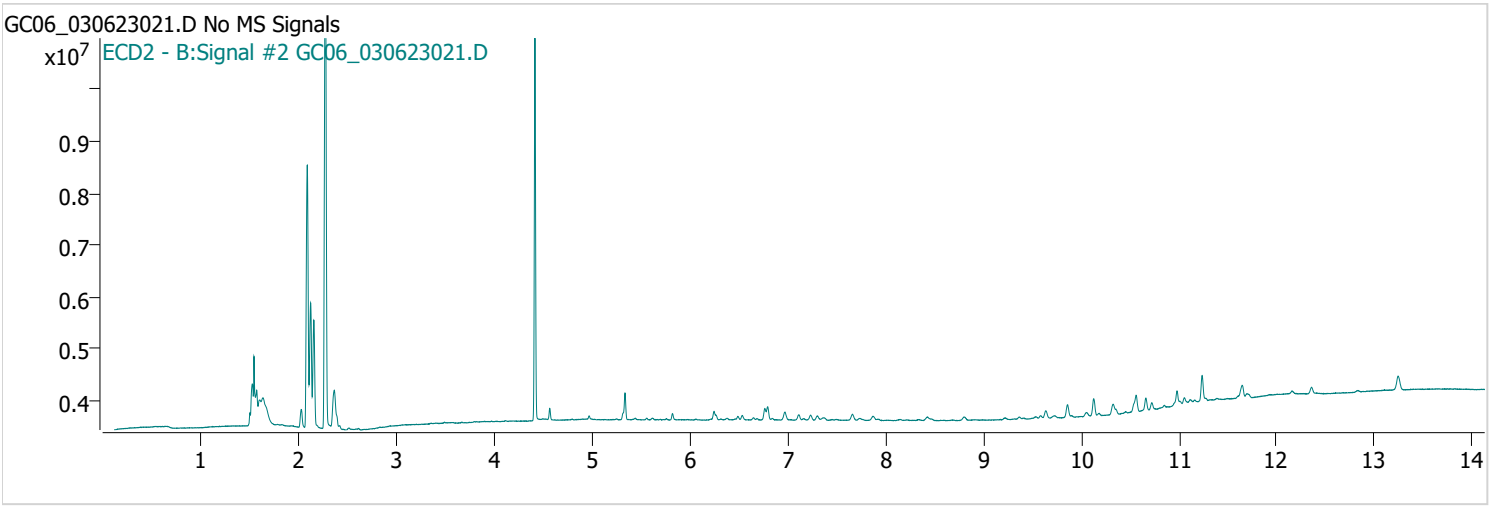
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	1.2709	13.25	0.01	406520				



Quantitation Results Report (Not Reviewed)

Data File	GC06_030623021.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/6/2023 6:30:06 PM
Sample Name	ICAL, S17797	Instrument	SVOA-GC06
Vial	12	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	030623PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



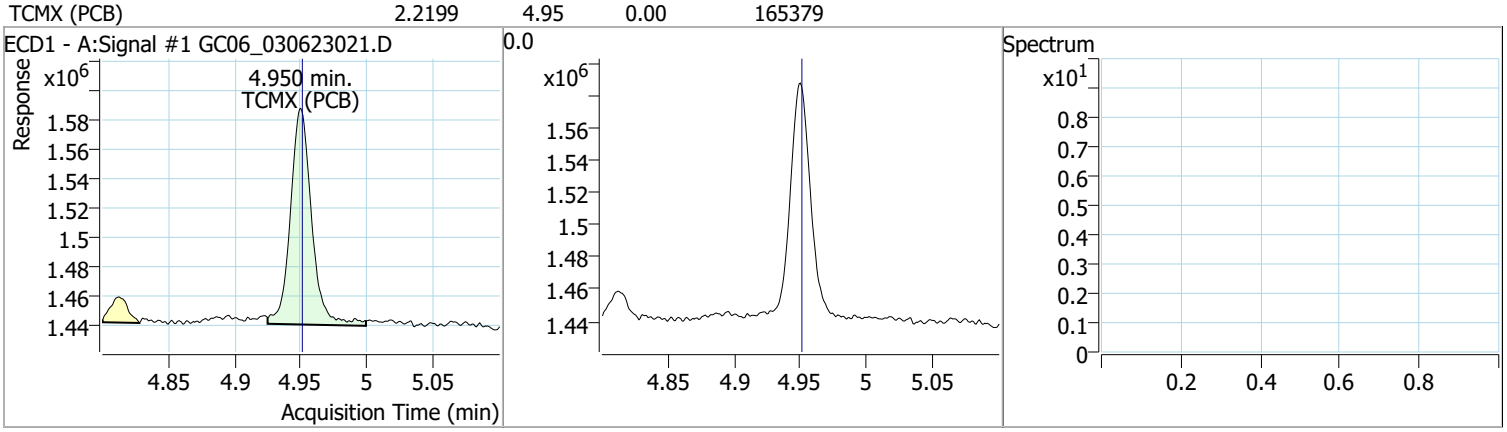


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.180	0.0	1606173.277	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.419	0.0	6570352.673	20.0000	ng/ml		0.001
System Monitoring Compounds							
S TCMX (PCB)	4.950	0.0	165379.290	2.2199	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 11.10%		*	
S TCMX (PCB) #2	5.339	0.0	565765.082	1.7930	ng/ml	m	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 8.96%		*	
S Decachlorobiphenyl (PCB)	11.907	0.0	200762.751	2.1017	ng/ml		0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 10.51%		*	
S Decachlorobiphenyl (PCB) #2	13.239	0.0	632703.312	2.0015	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 10.01%		*	
Target Compounds							**QValue**
T AR1016 1	5.293	0.0	41054.671	24.9830	ng/ml		100
T AR1016 2	5.624	0.0	101051.340	10.6236	ng/ml		100
T AR1016 1 #2	5.824	0.0	149948.505	23.9661	ng/ml		100

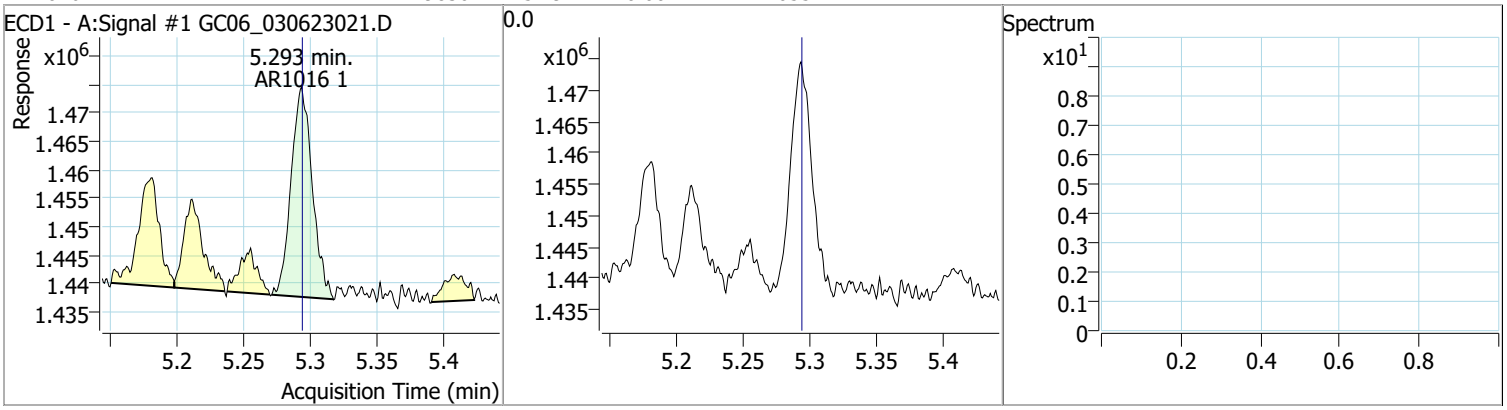
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 3	6.086	0.0	126946.692	14.7869	ng/ml		100
T AR1016 4	6.221	0.0	83909.521	26.1428	ng/ml		100
T AR1016 2 #2	6.249	0.0	314387.599	22.7008	ng/ml	m	100
T AR1016 5	6.413	0.0	41369.370	22.6378	ng/ml		100
T AR1016 3 #2	6.797	0.0	383268.496	22.6761	ng/ml		100
T AR1016 4 #2	6.974	0.0	294925.319	23.6249	ng/ml		100
T AR1016 5 #2	7.665	0.0	241247.106	23.7692	ng/ml		100
T AR1260 1	8.528	0.0	157141.963	23.7691	ng/ml		100
T AR1260 2	9.052	0.0	186202.094	25.1809	ng/ml	m	100
T AR1260 3	9.503	0.0	218982.461	27.1122	ng/ml	m	100
T AR1260 1 #2	9.860	0.0	445927.211	25.5628	ng/ml	m	100
T AR1260 4	10.005	0.0	114564.695	24.1118	ng/ml		100
T AR1260 2 #2	10.128	0.0	563633.964	26.4853	ng/ml		100
T AR1260 3 #2	10.562	0.0	705912.489	25.0217	ng/ml		100
T AR1260 5	10.713	0.0	118878.129	23.5550	ng/ml		100
T AR1260 4 #2	10.980	0.0	453156.674	27.4213	ng/ml		100
T AR1260 5 #2	11.645	0.0	594693.426	23.5092	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

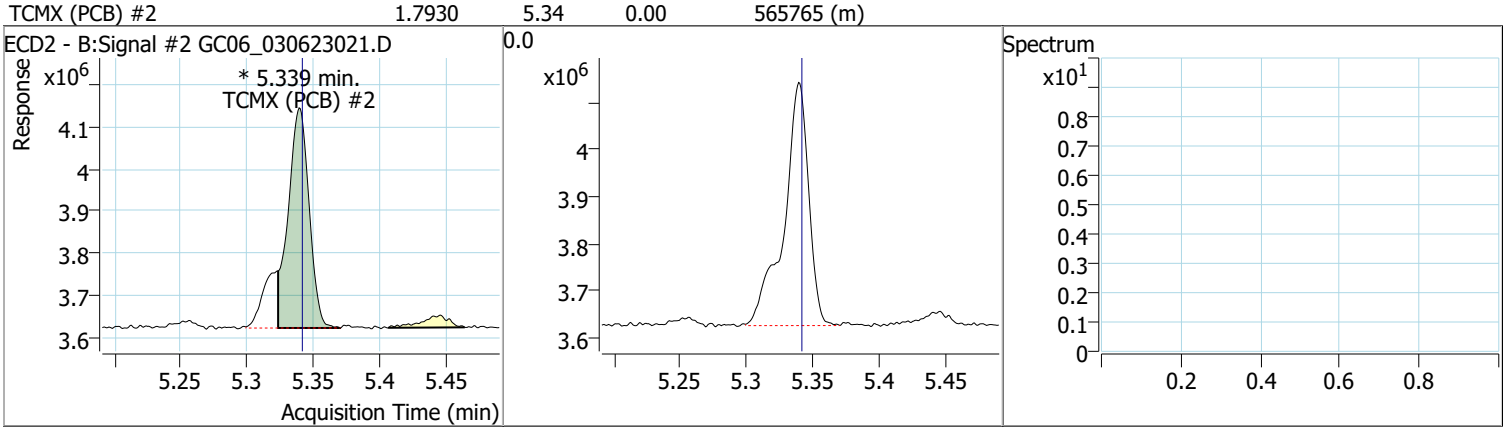
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	2.2199	4.95	0.00	165379				



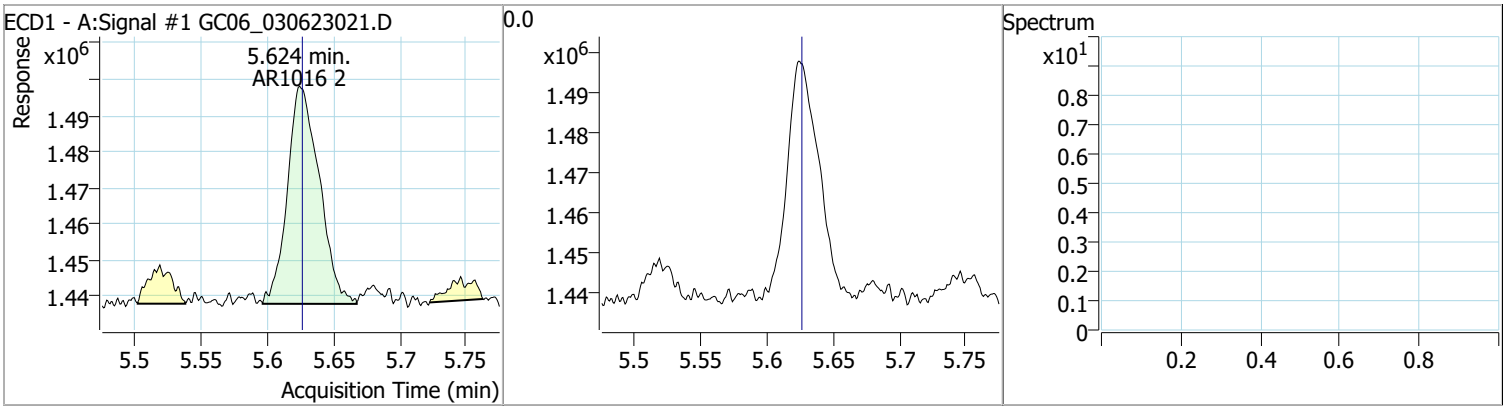
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	24.9830	5.29	0.00	41055				



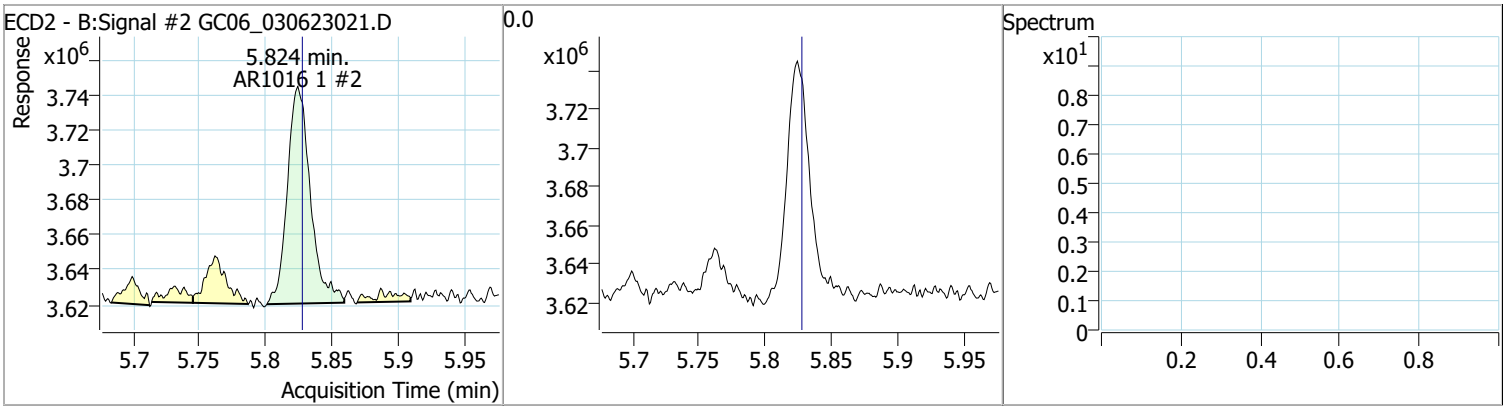
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TCMX (PCB) #2	1.7930	5.34	0.00	565765 (m)				



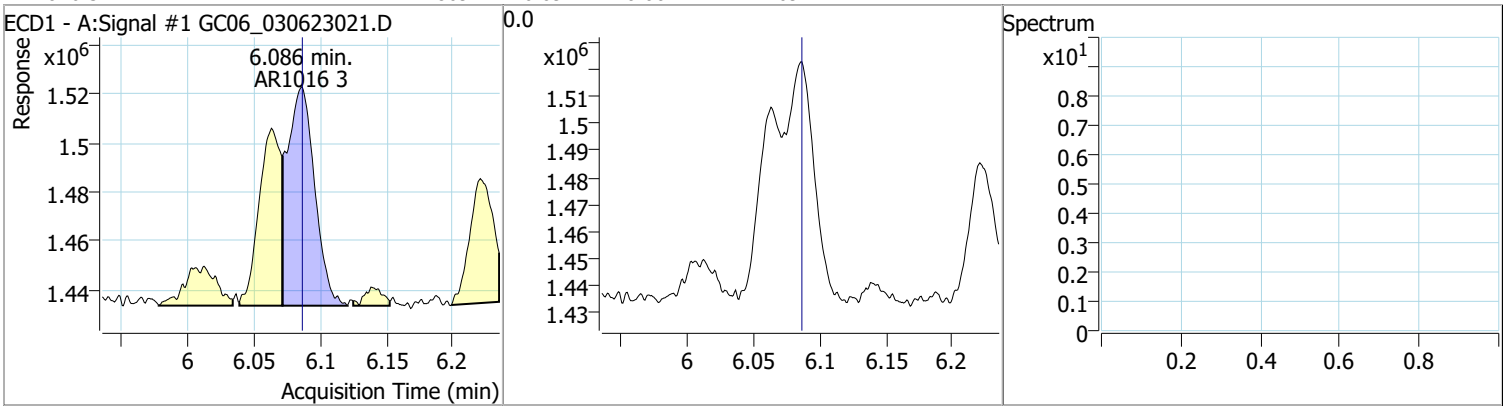
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	10.6236	5.62	0.00	101051				



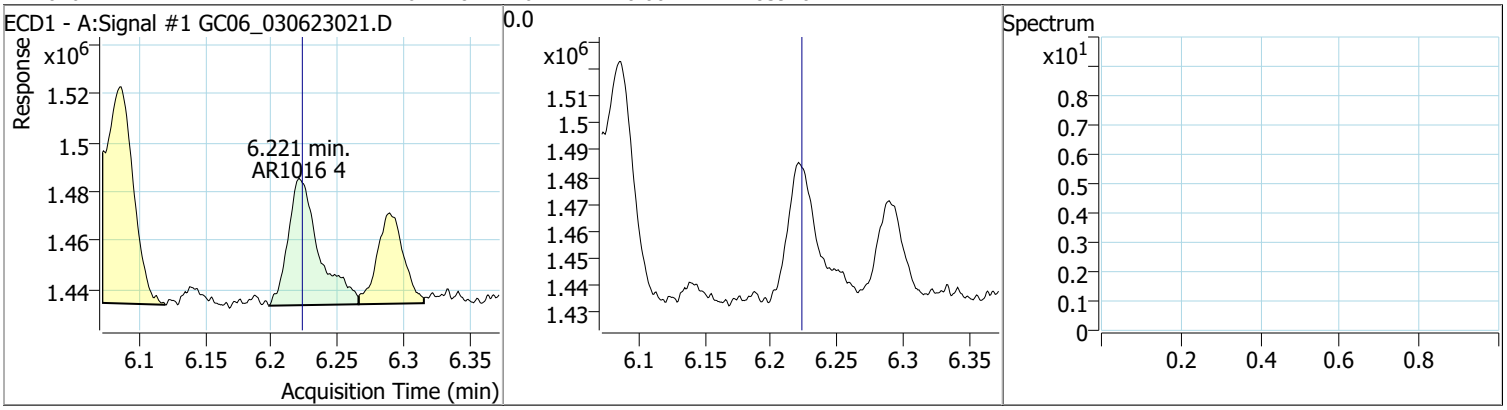
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AR1016 1 #2	23.9661	5.82	0.00	149949				



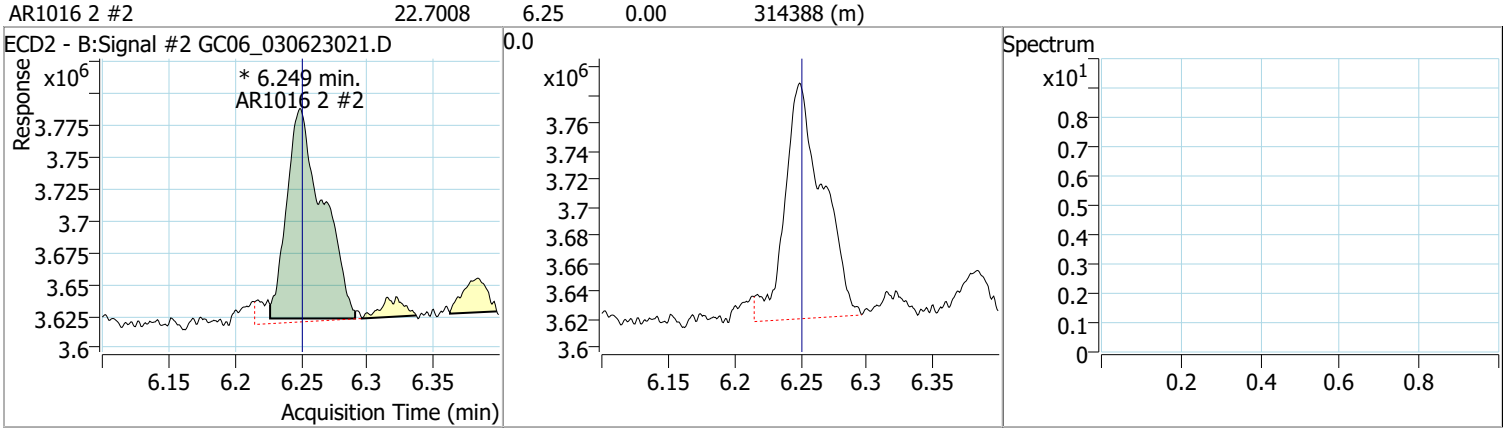
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	14.7869	6.09	0.00	126947				



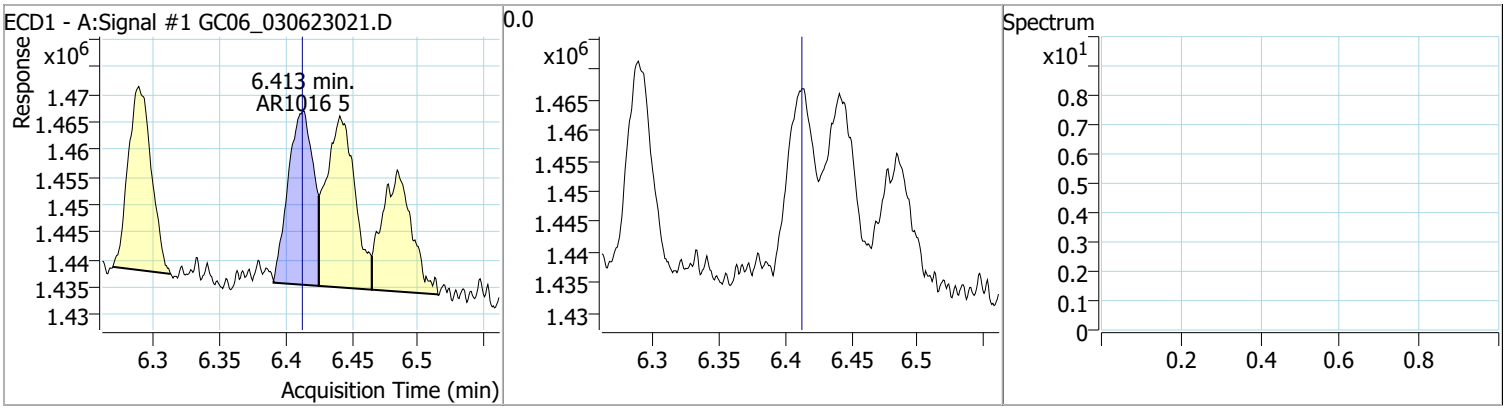
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	26.1428	6.22	0.00	83910				



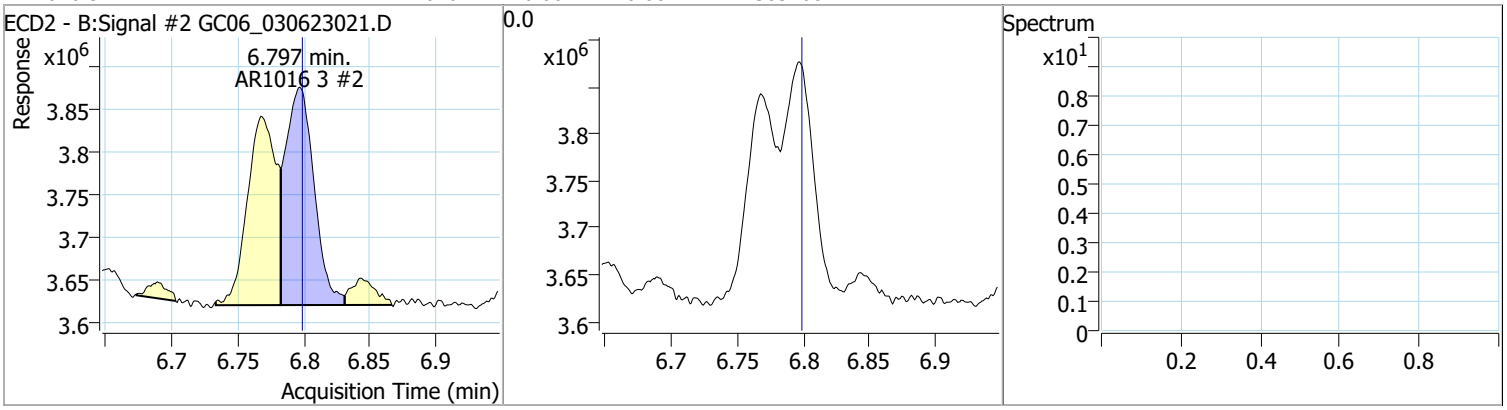
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	22.7008	6.25	0.00	314388 (m)				



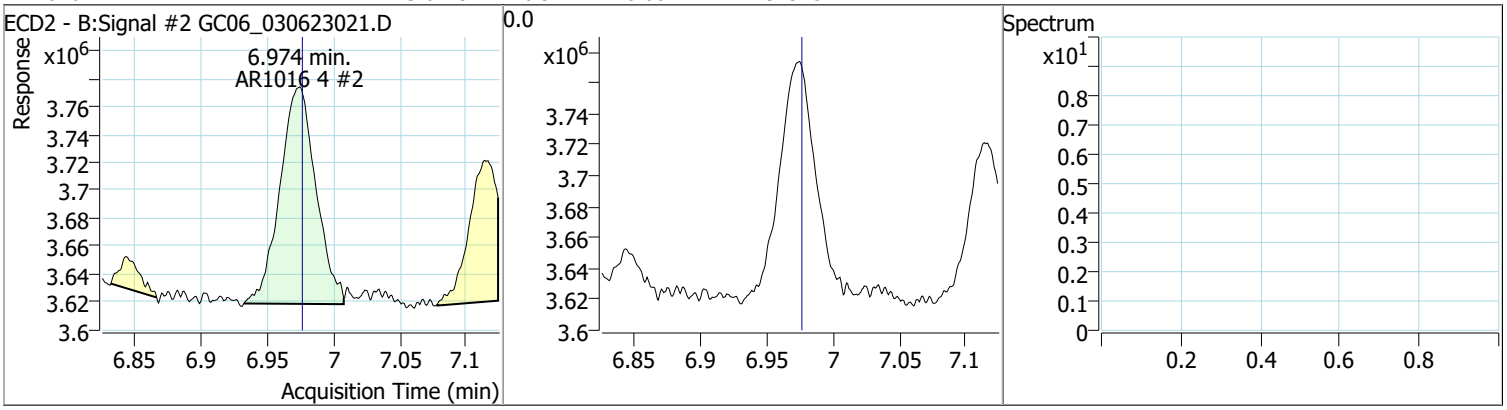
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	22.6378	6.41	0.00	41369				



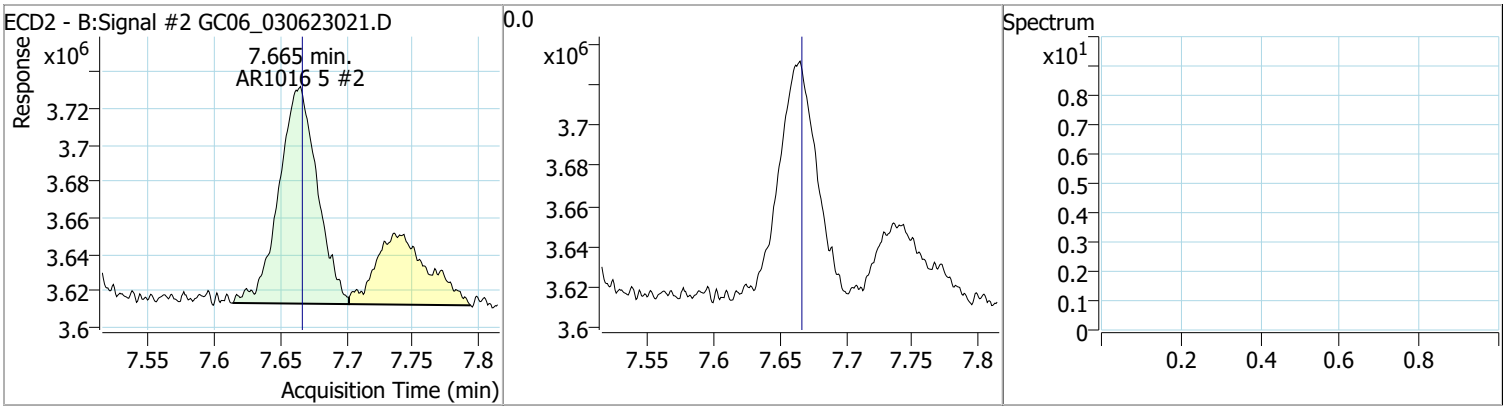
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AR1016 3 #2	22.6761	6.80	0.00	383268				



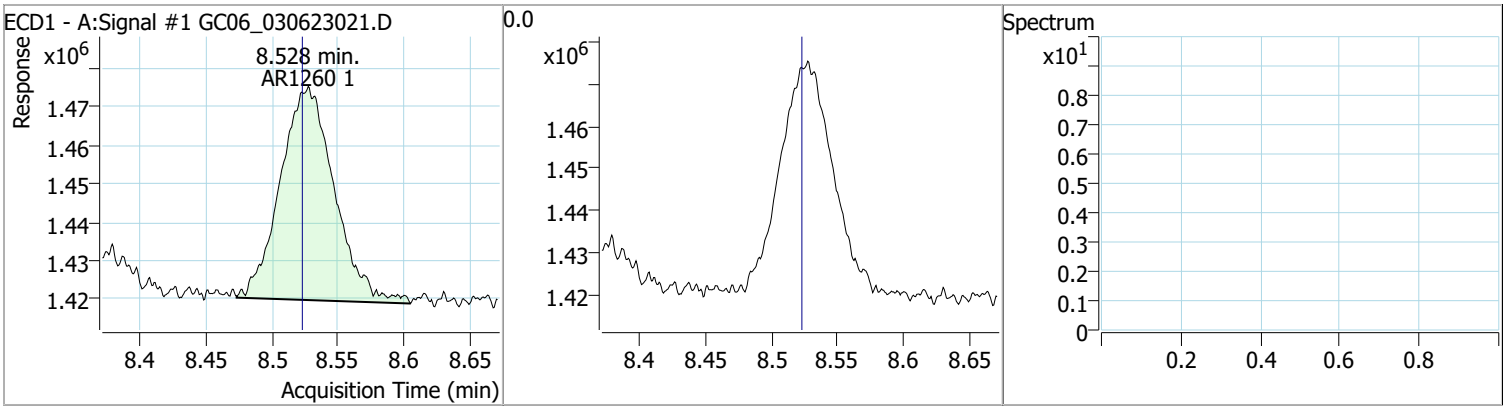
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AR1016 4 #2	23.6249	6.97	0.00	294925				



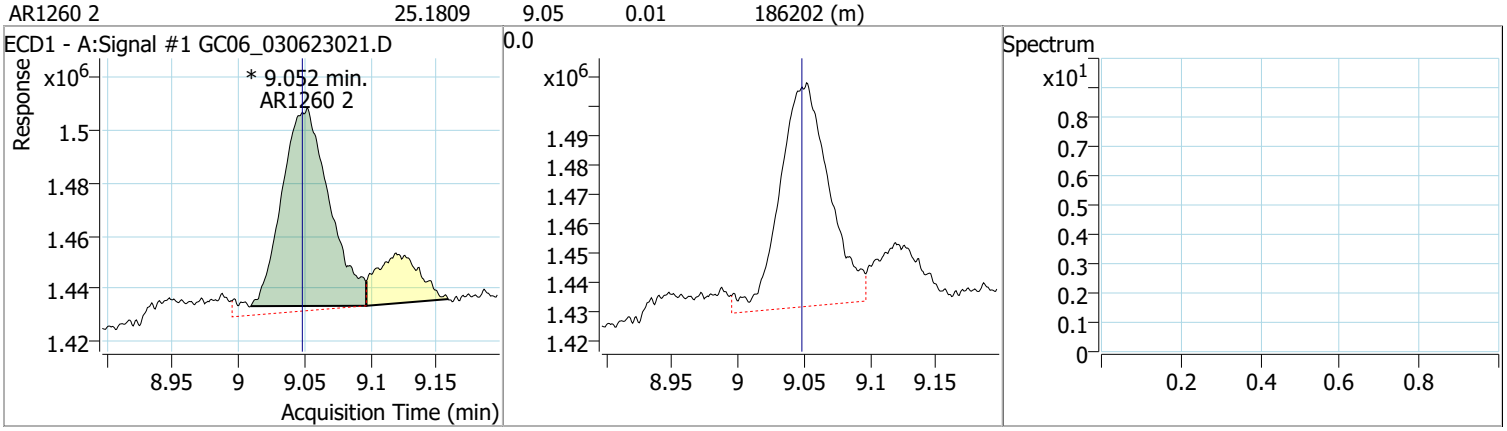
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	23.7692	7.67	0.00	241247				



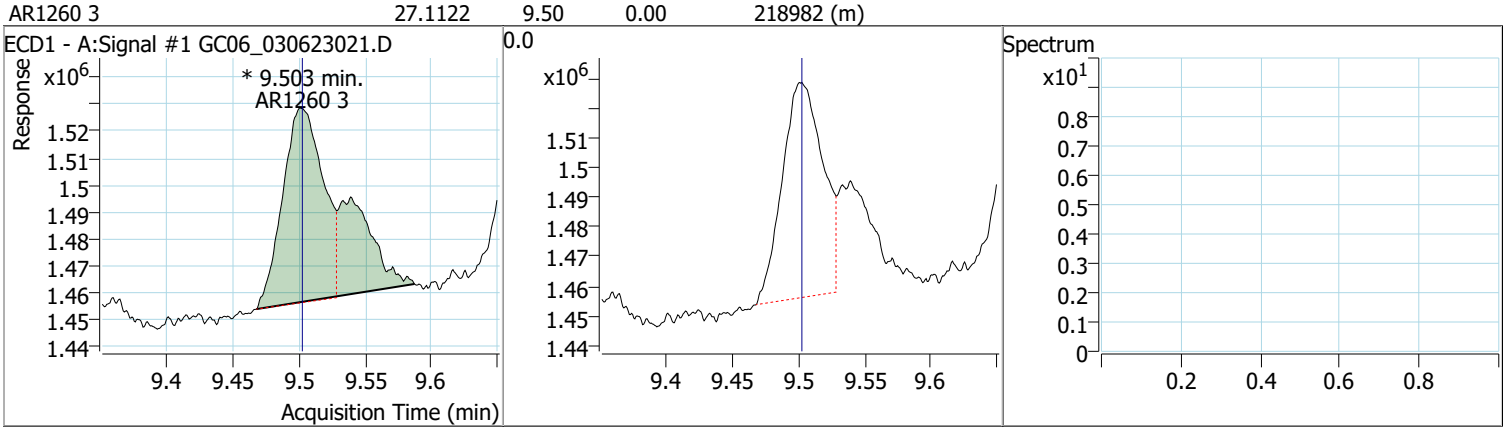
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	23.7691	8.53	0.01	157142				



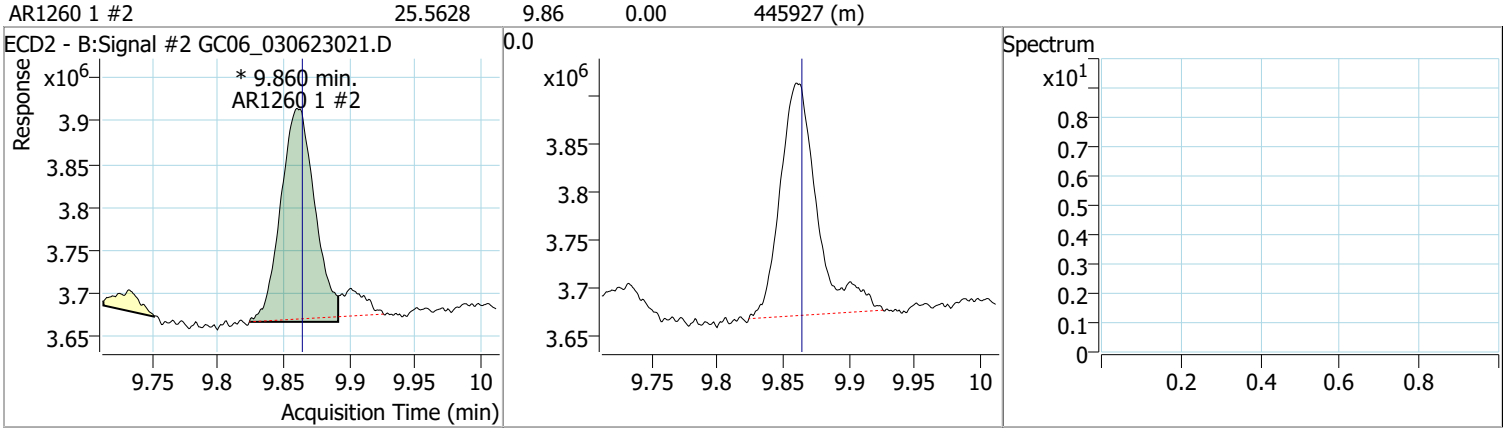
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	25.1809	9.05	0.01	186202 (m)				



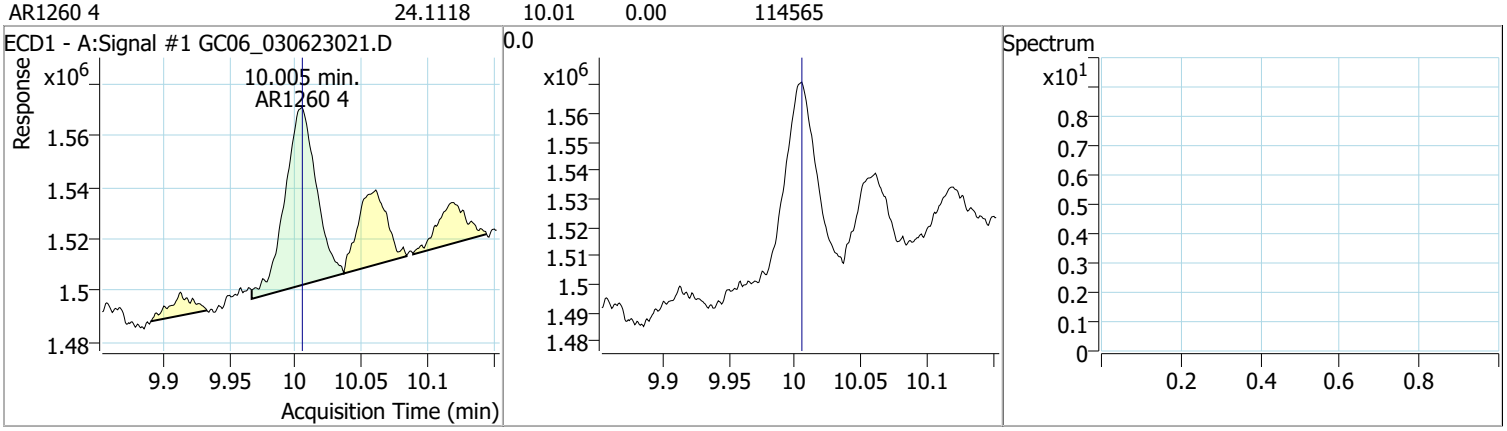
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	27.1122	9.50	0.00	218982 (m)				



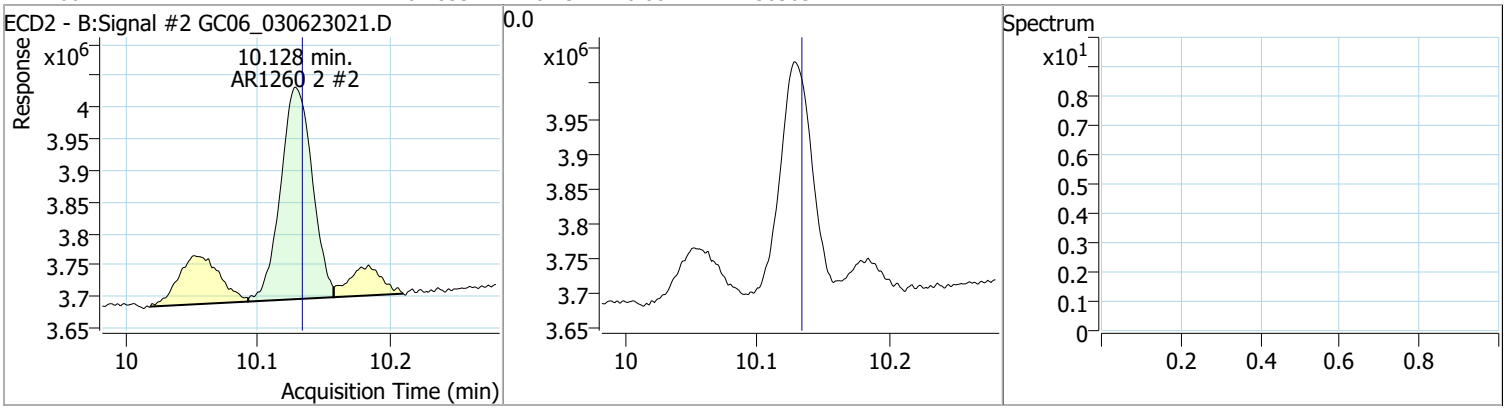
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	25.5628	9.86	0.00	445927 (m)				



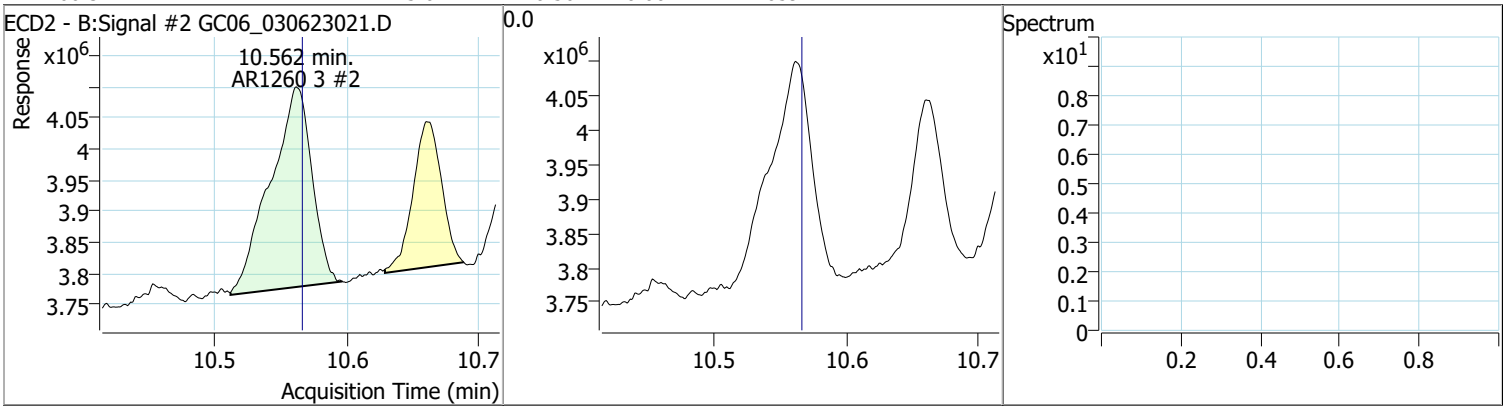
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	24.1118	10.01	0.00	114565				



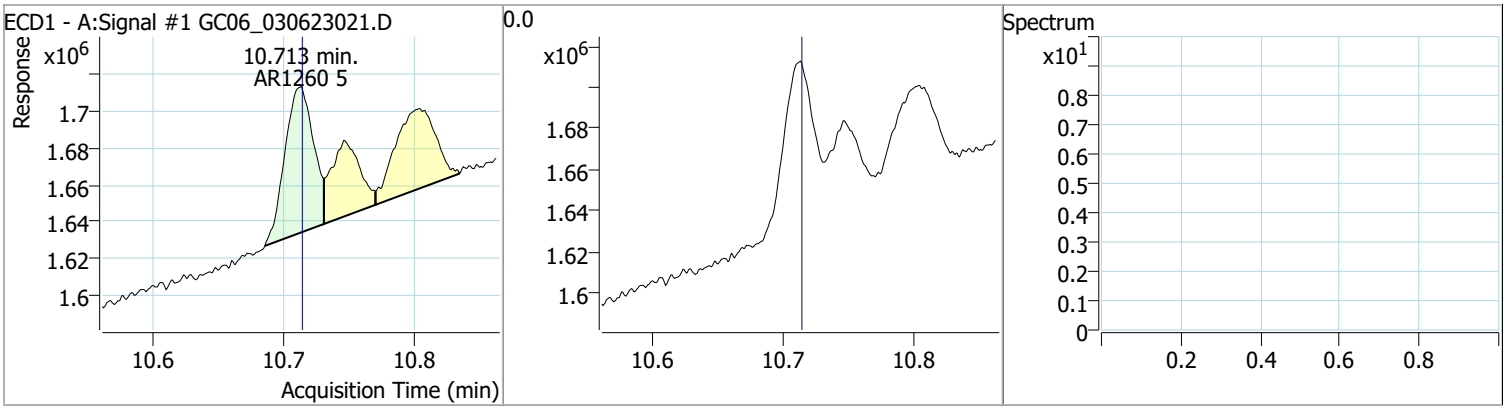
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	26.4853	10.13	0.00	563634				



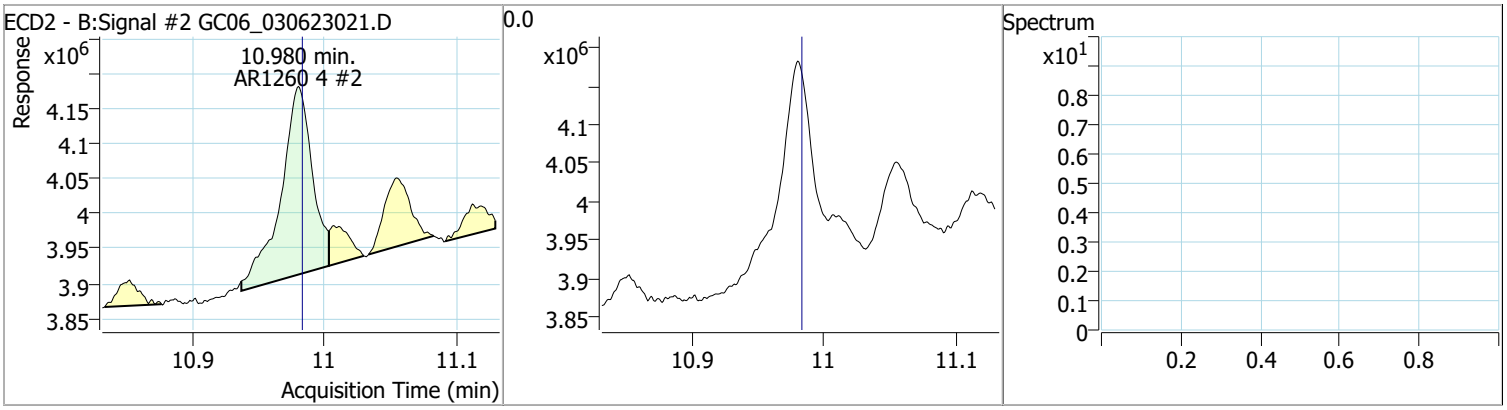
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	25.0217	10.56	0.00	705912				



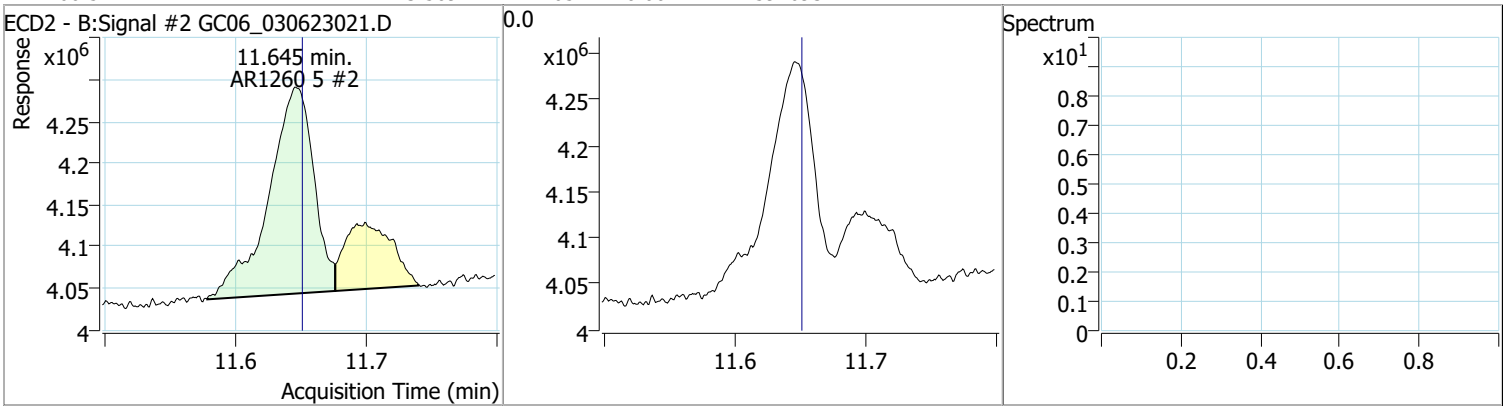
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	23.5550	10.71	0.00	118878				



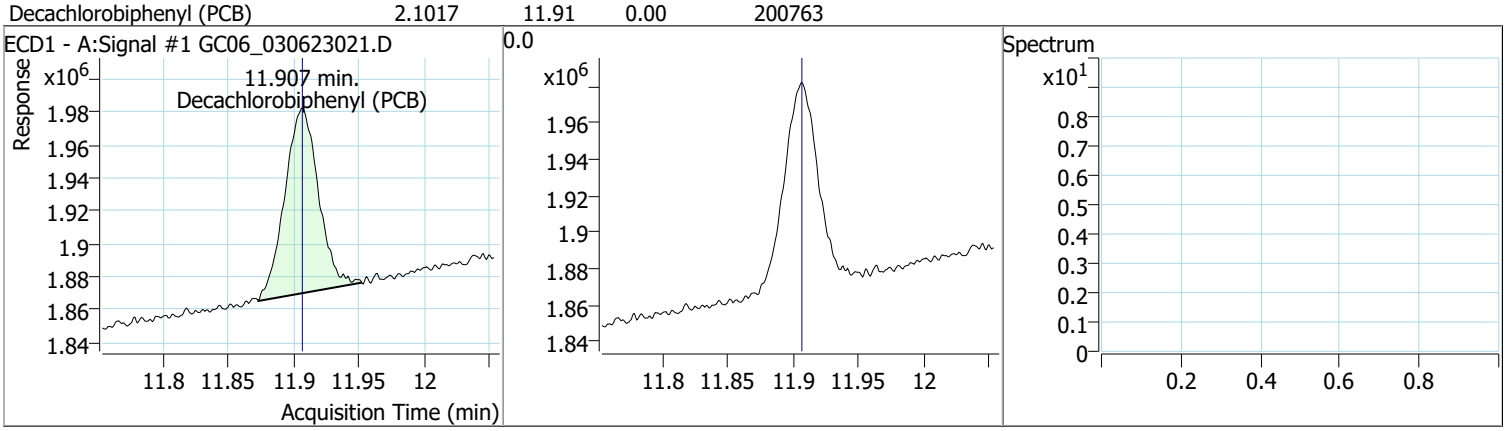
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	27.4213	10.98	0.00	453157				



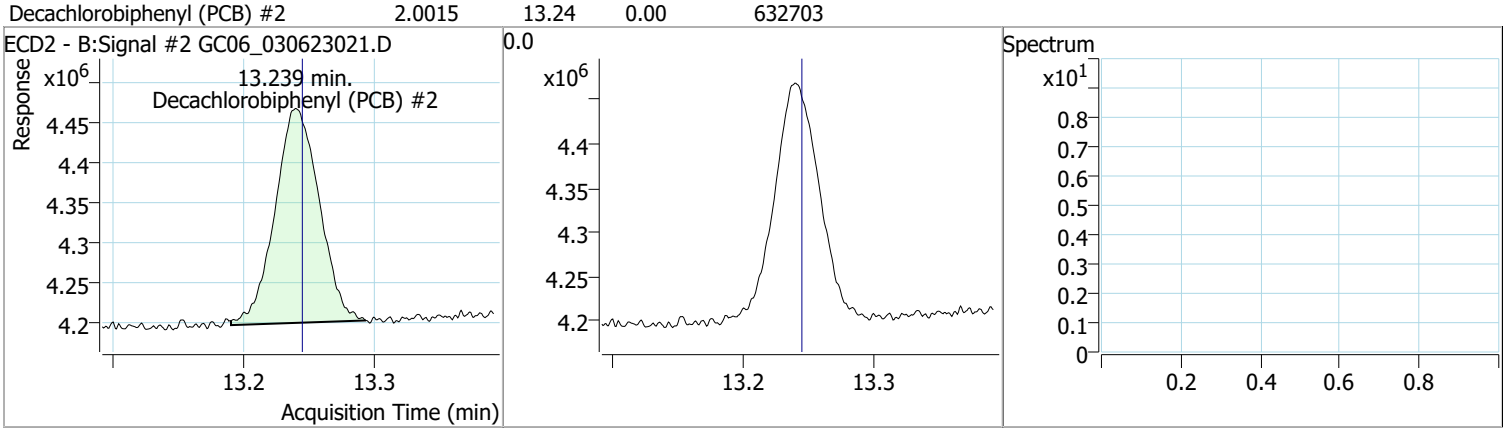
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	23.5092	11.65	0.00	594693				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	2.1017	11.91	0.00	200763				

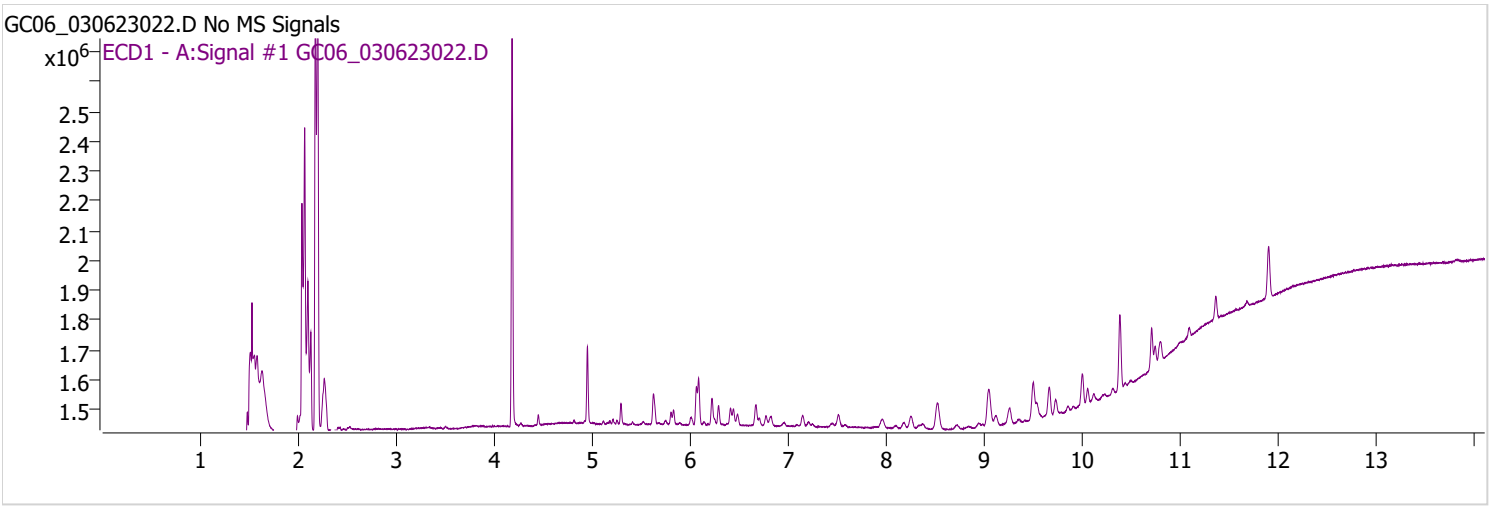


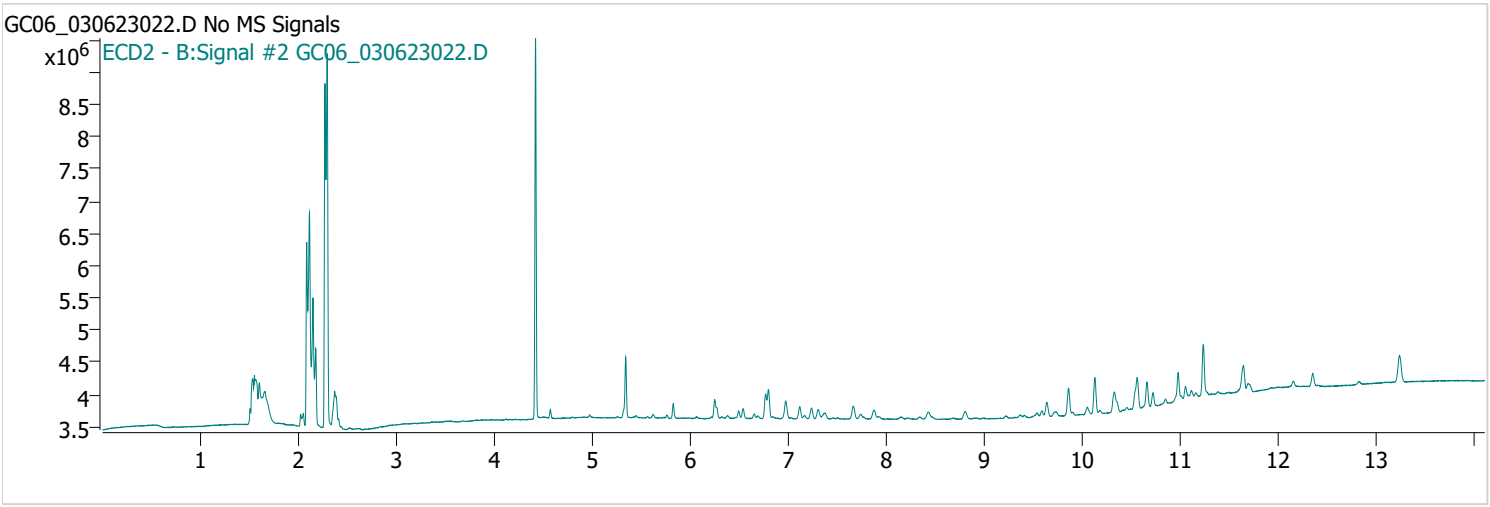
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	2.0015	13.24	0.00	632703				



Quantitation Results Report (Not Reviewed)

Data File	GC06_030623022.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/6/2023 6:48:24 PM
Sample Name	ICAL, S17798	Instrument	SVOA-GC06
Vial	13	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	030623PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



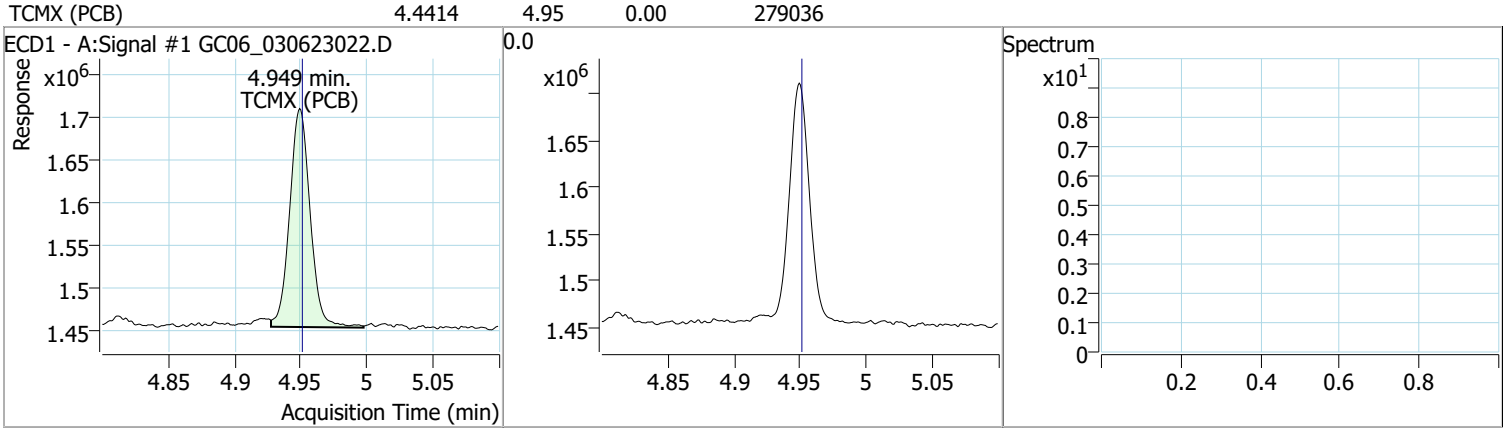


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.180	0.0	1354516.010	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.419	0.0	5472969.997	20.0000	ng/ml		0.001
System Monitoring Compounds							
S TCMX (PCB)	4.949	0.0	279036.093	4.4414	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 22.21%		*	
S TCMX (PCB) #2	5.340	0.0	1032975.238	3.9301	ng/ml	m	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 19.65%		*	
S Decachlorobiphenyl (PCB)	11.904	0.0	312522.468	3.8795	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 19.40%		*	
S Decachlorobiphenyl (PCB) #2	13.241	0.0	993441.976	3.7728	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 18.86%		*	
Target Compounds							**QValue**
T AR1016 1	5.292	0.0	76878.394	55.4746	ng/ml		100
T AR1016 2	5.623	0.0	168827.547	39.9144	ng/ml		100

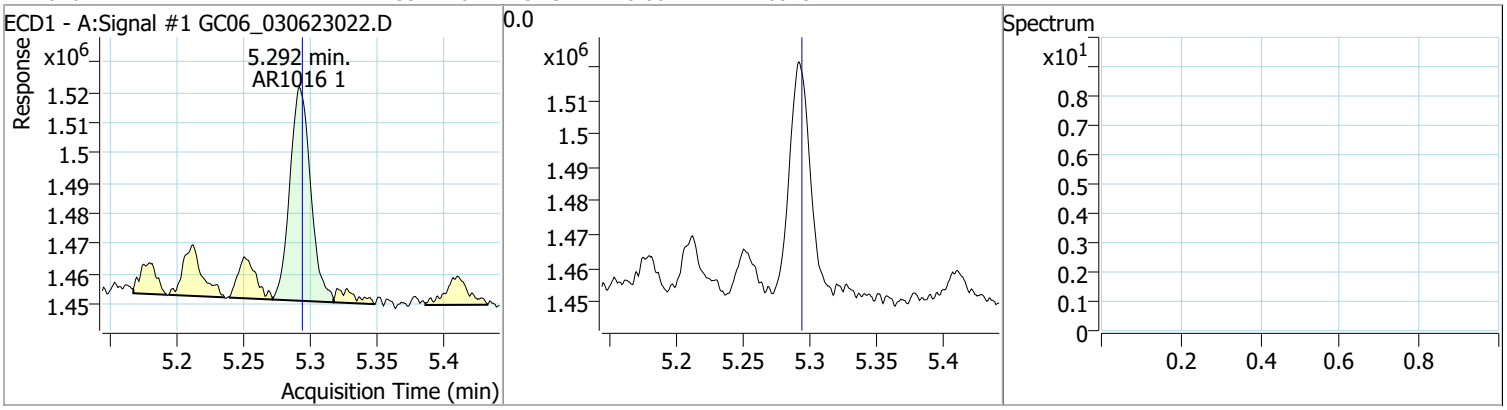
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1 #2	5.825	0.0	271672.575	52.1275	ng/ml		100
T AR1016 3	6.084	0.0	213449.183	44.5813	ng/ml		100
T AR1016 4	6.221	0.0	149866.083	55.3671	ng/ml		100
T AR1016 2 #2	6.248	0.0	578204.473	50.1214	ng/ml		100
T AR1016 5	6.409	0.0	83294.895	54.0483	ng/ml	m	100
T AR1016 3 #2	6.797	0.0	687269.419	48.8156	ng/ml		100
T AR1016 4 #2	6.973	0.0	518150.443	49.8287	ng/ml	m	100
T AR1016 5 #2	7.664	0.0	414504.217	49.0283	ng/ml		100
T AR1260 1	8.522	0.0	240321.403	46.5171	ng/ml		100
T AR1260 2	9.048	0.0	337111.569	54.0592	ng/ml		100
T AR1260 3	9.503	0.0	370695.531	54.4229	ng/ml	m	100
T AR1260 1 #2	9.860	0.0	736858.433	50.7101	ng/ml		100
T AR1260 4	10.001	0.0	185395.371	46.2685	ng/ml		100
T AR1260 2 #2	10.130	0.0	944330.213	53.2718	ng/ml		100
T AR1260 3 #2	10.561	0.0	1103849.958	46.9724	ng/ml		100
T AR1260 5	10.709	0.0	214360.464	50.3656	ng/ml		100
T AR1260 4 #2	10.980	0.0	688840.402	50.0408	ng/ml		100
T AR1260 5 #2	11.646	0.0	964486.531	45.7726	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

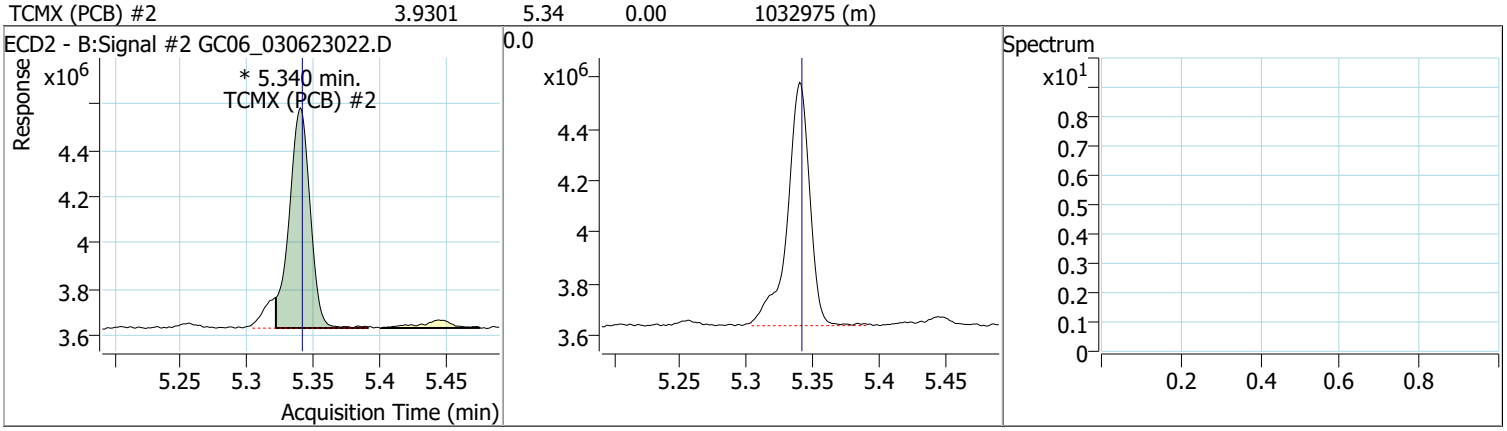
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	4.4414	4.95	0.00	279036				



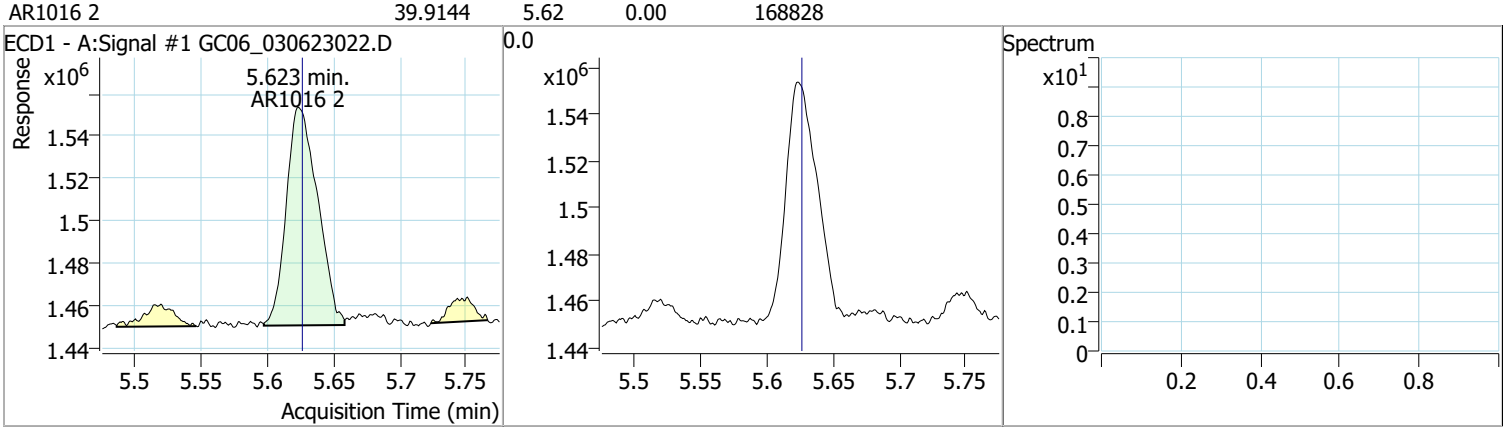
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	55.4746	5.29	0.00	76878				



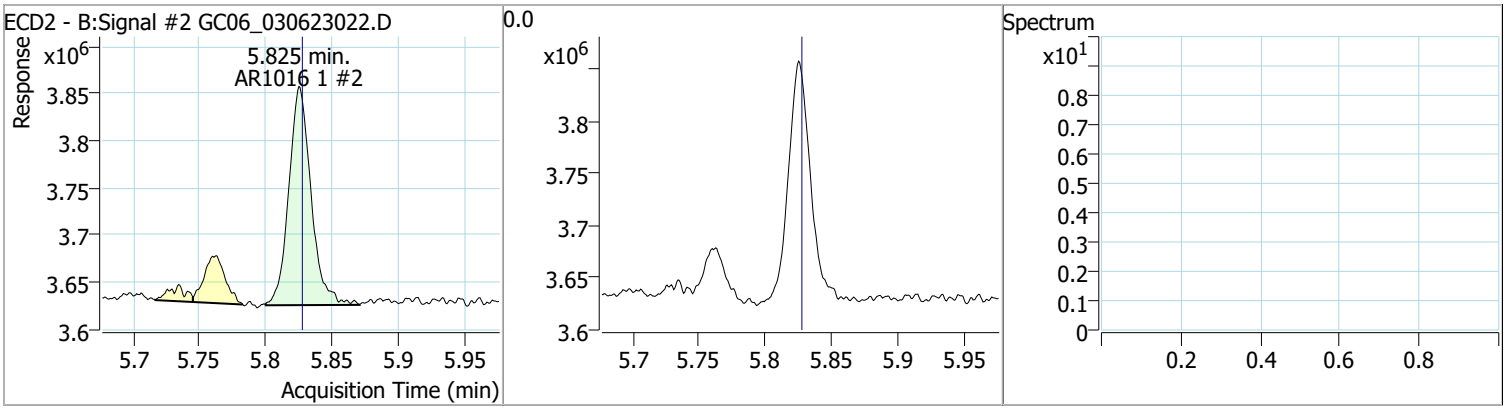
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	3.9301	5.34	0.00	1032975 (m)				



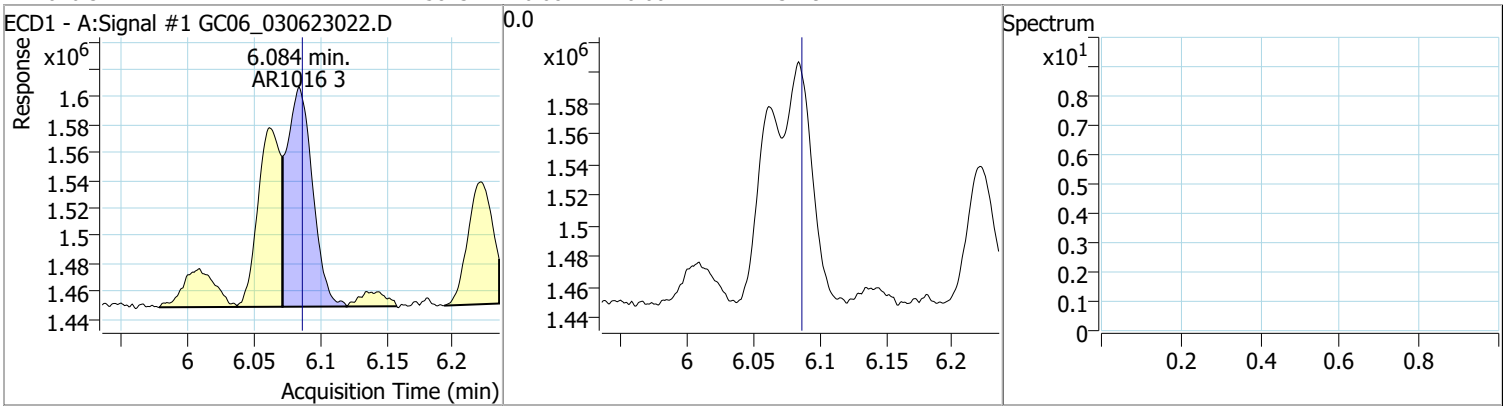
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	39.9144	5.62	0.00	168828				



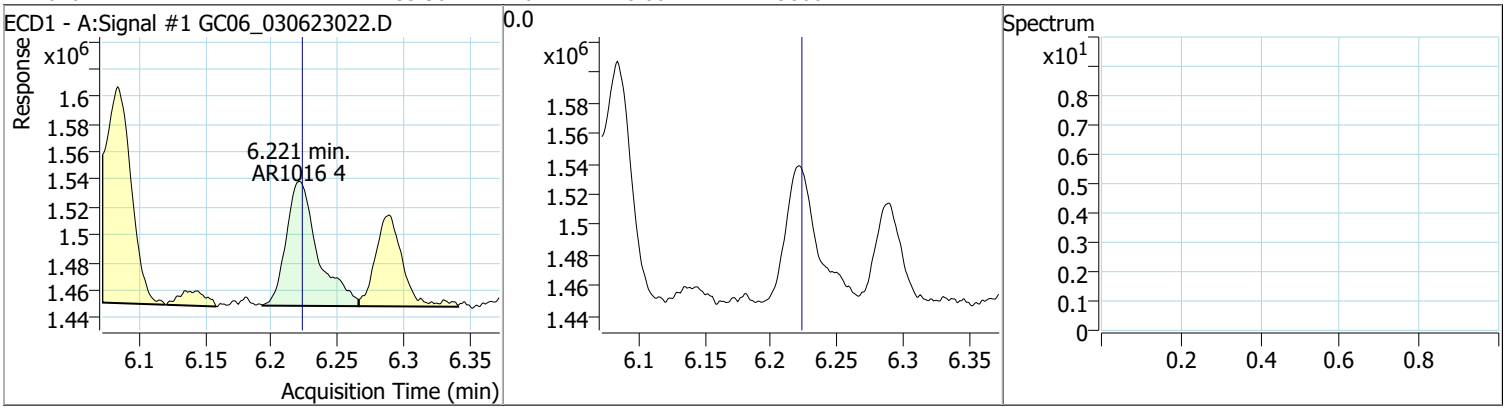
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	52.1275	5.83	0.00	271673				



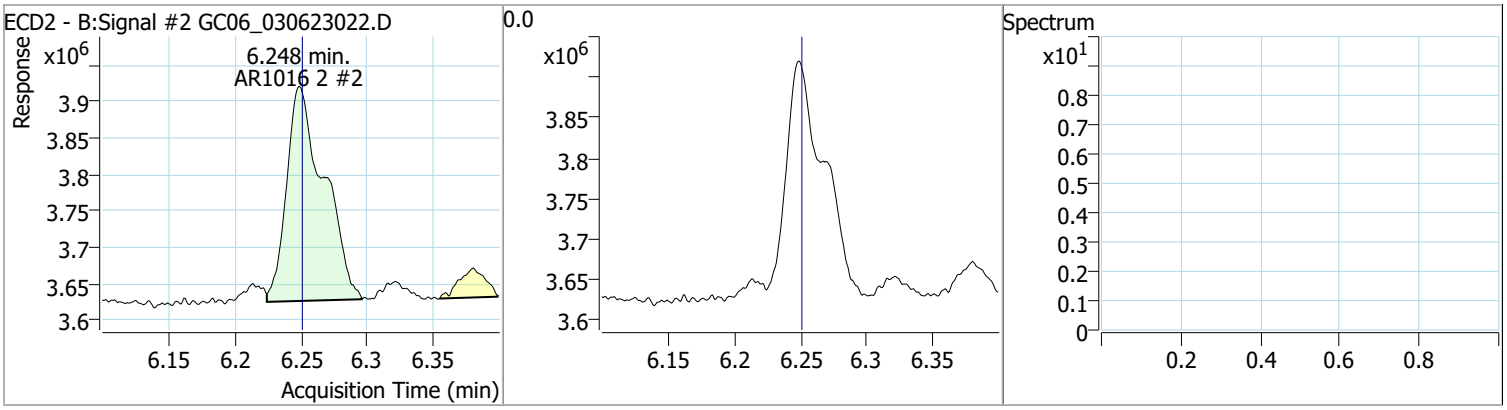
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	44.5813	6.08	0.00	213449				



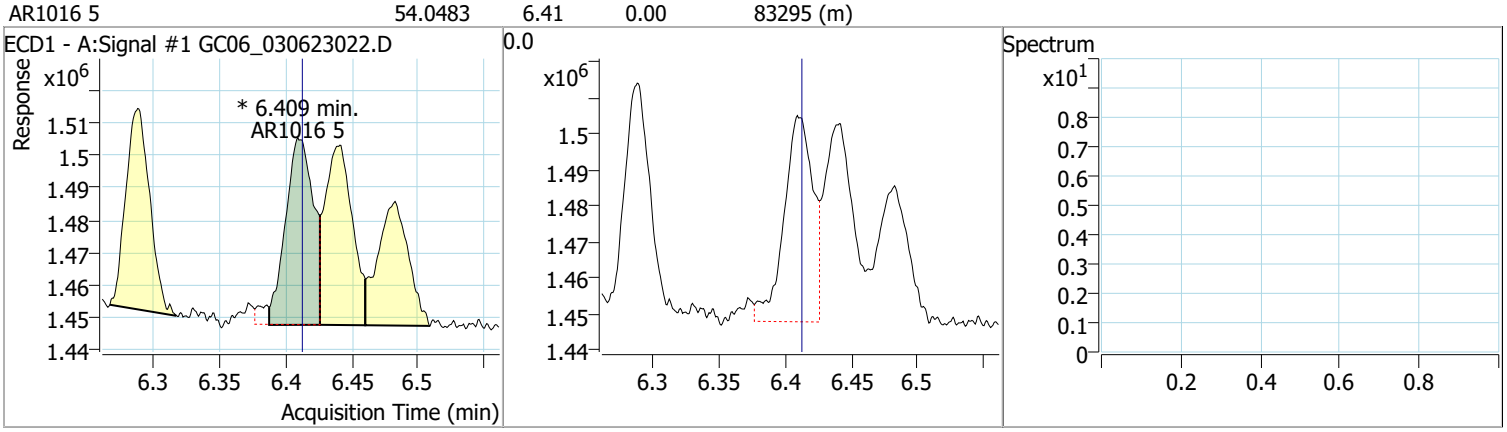
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	55.3671	6.22	0.00	149866				



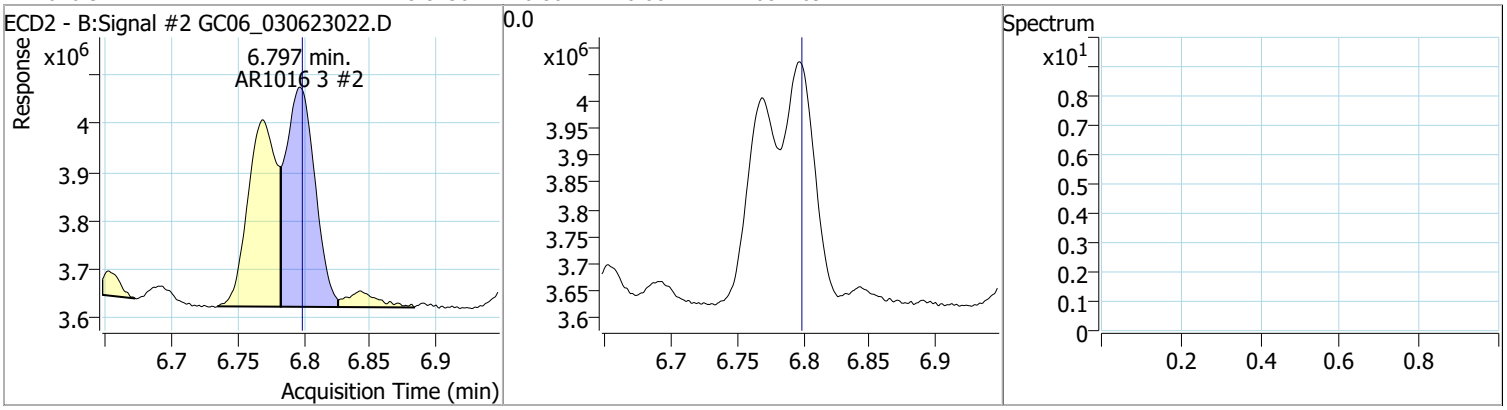
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	50.1214	6.25	0.00	578204				



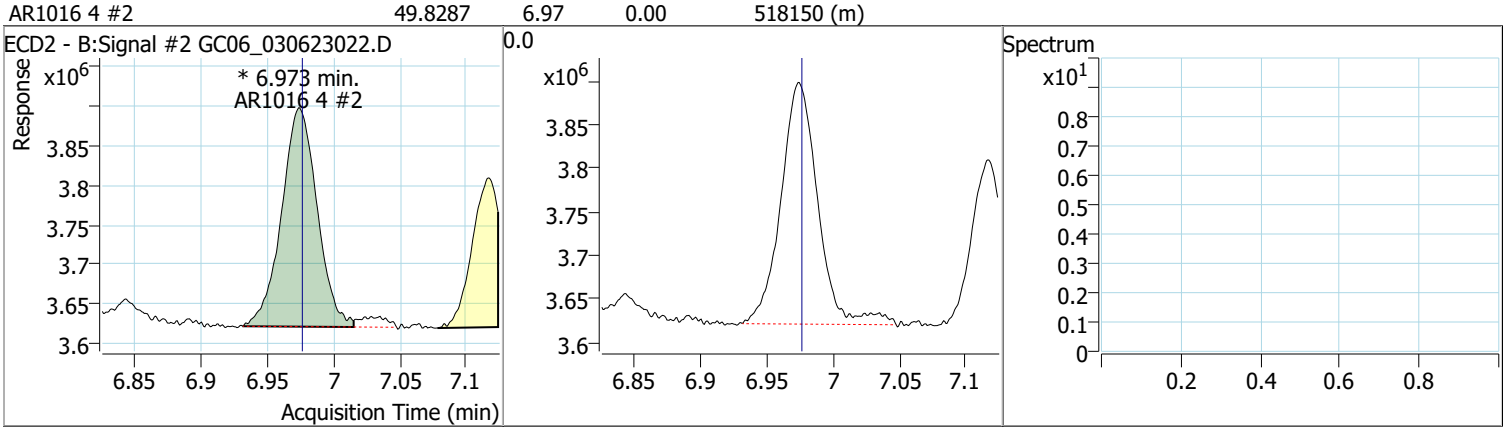
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	54.0483	6.41	0.00	83295 (m)				



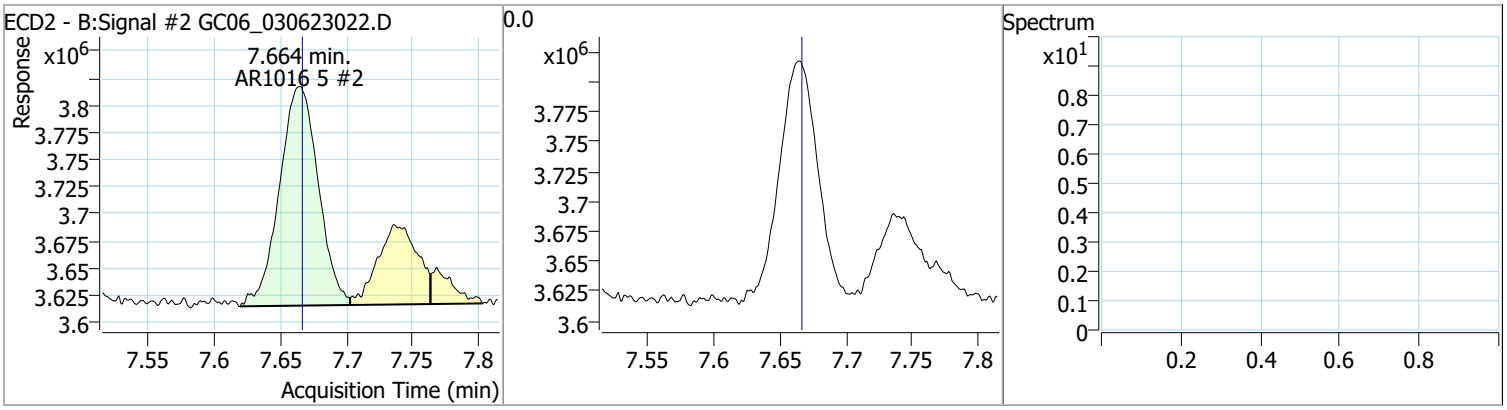
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	48.8156	6.80	0.00	687269				



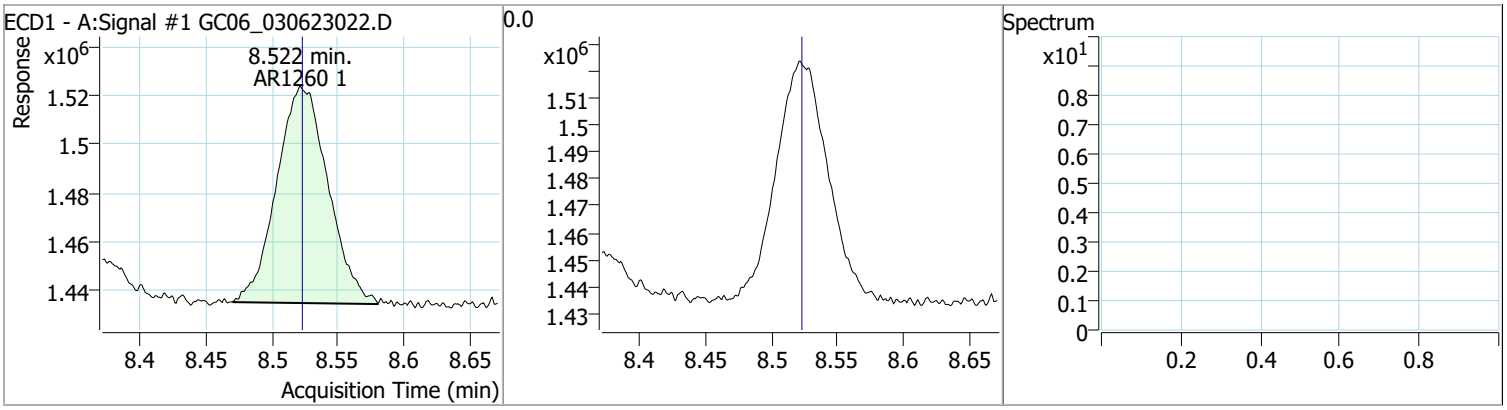
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	49.8287	6.97	0.00	518150 (m)				



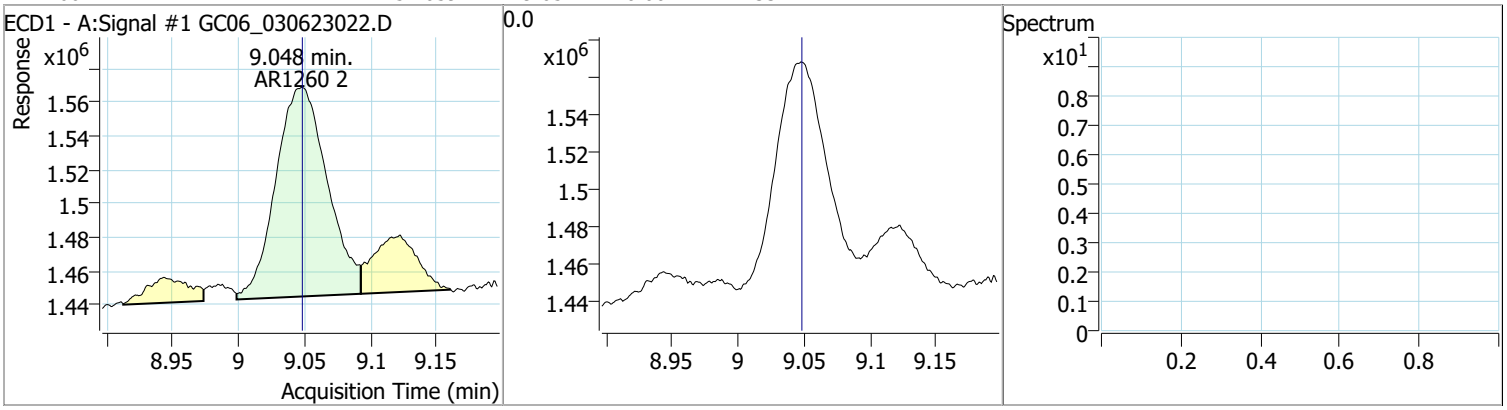
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	49.0283	7.66	0.00	414504				



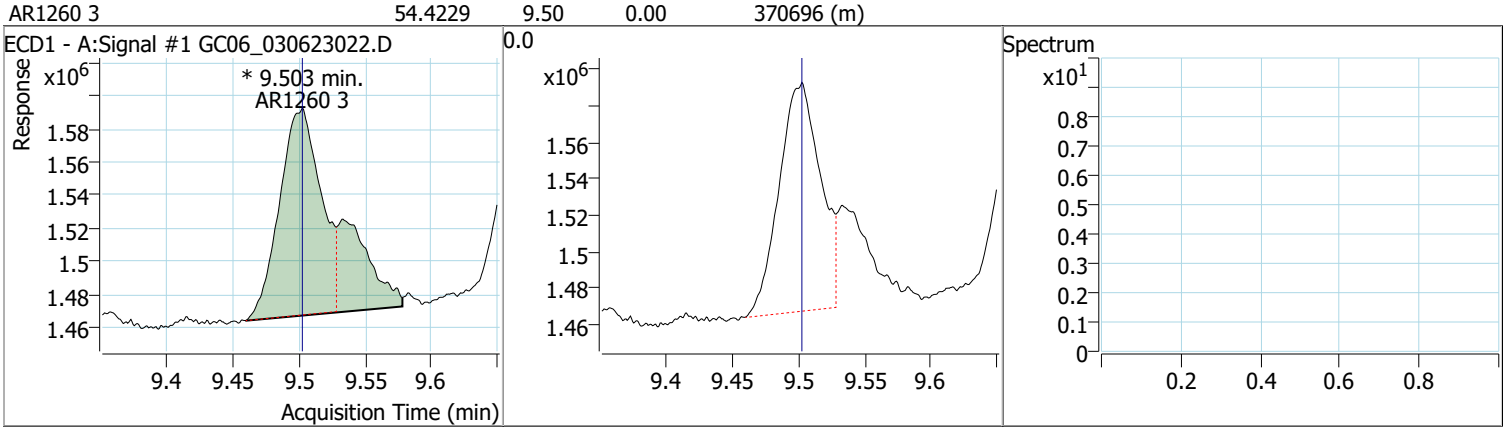
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	46.5171	8.52	0.00	240321				



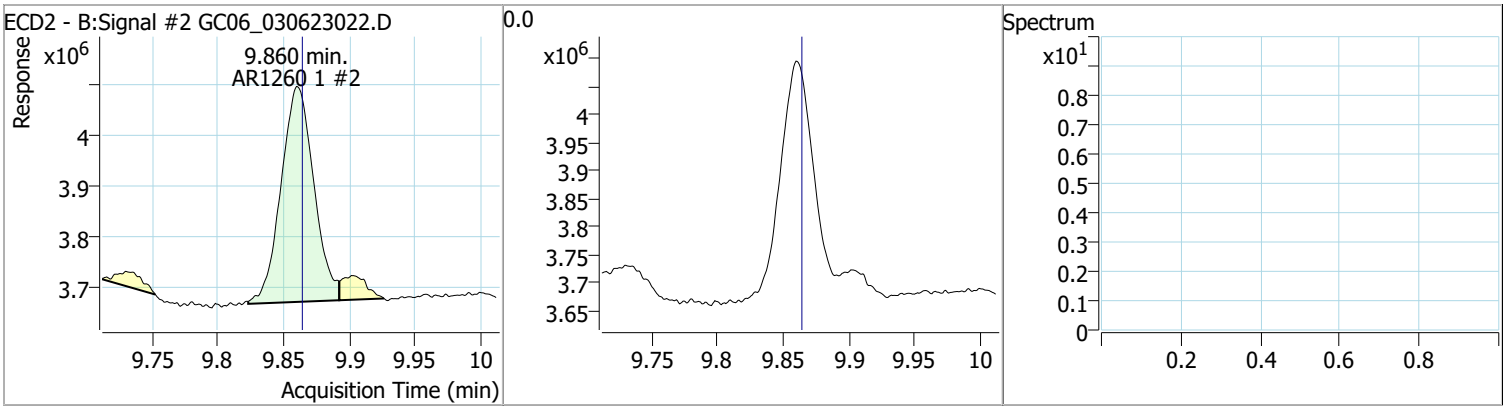
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	54.0592	9.05	0.00	337112				



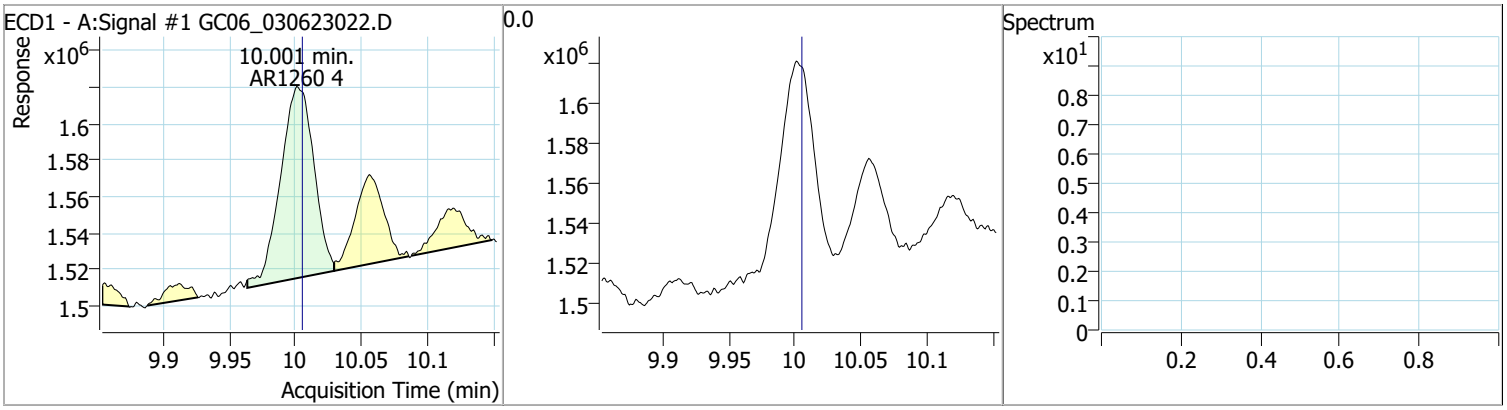
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	54.4229	9.50	0.00	370696 (m)				



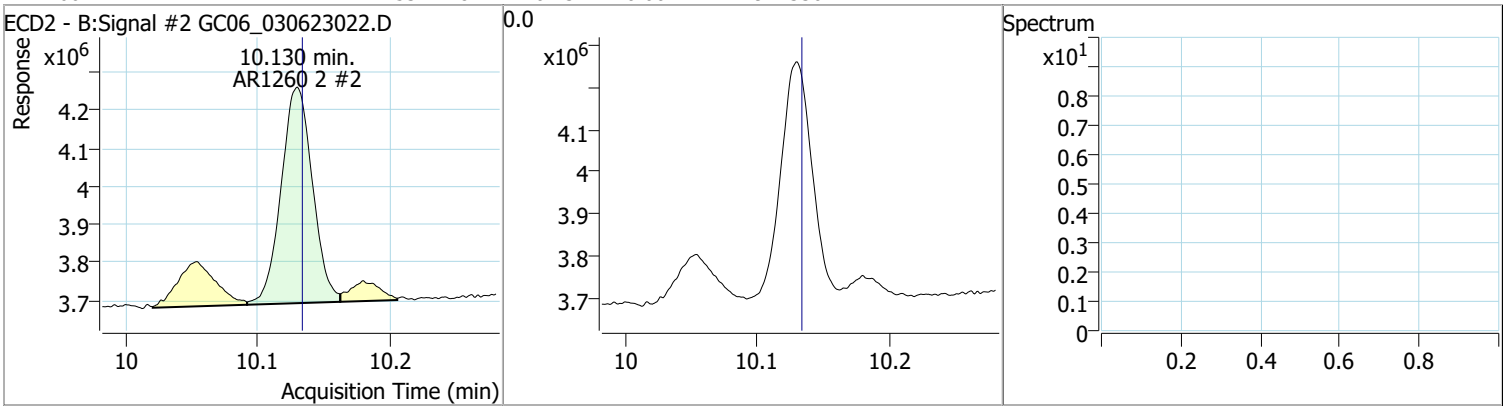
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	50.7101	9.86	0.00	736858				



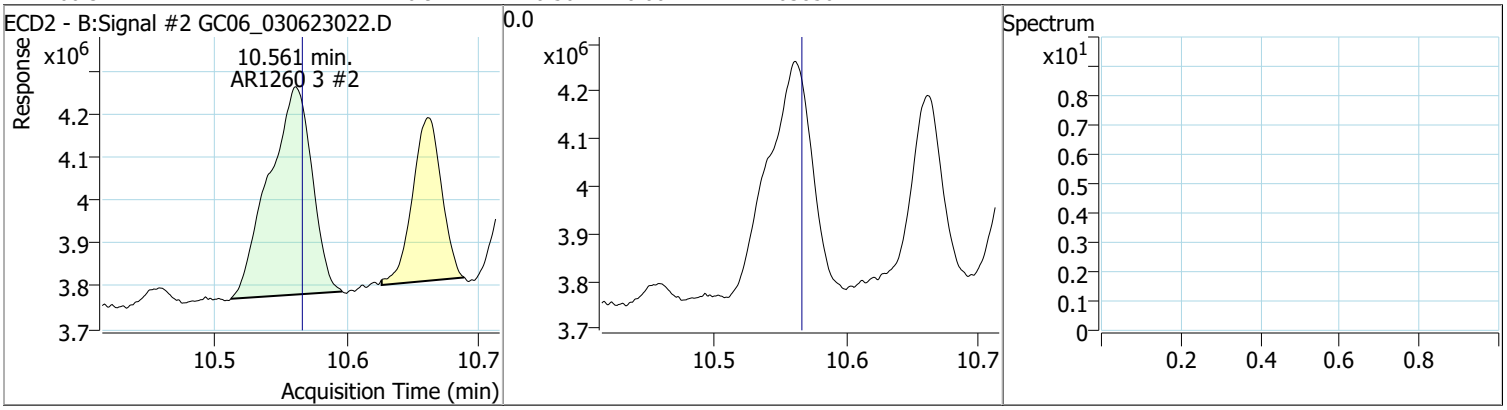
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	46.2685	10.00	0.00	185395				



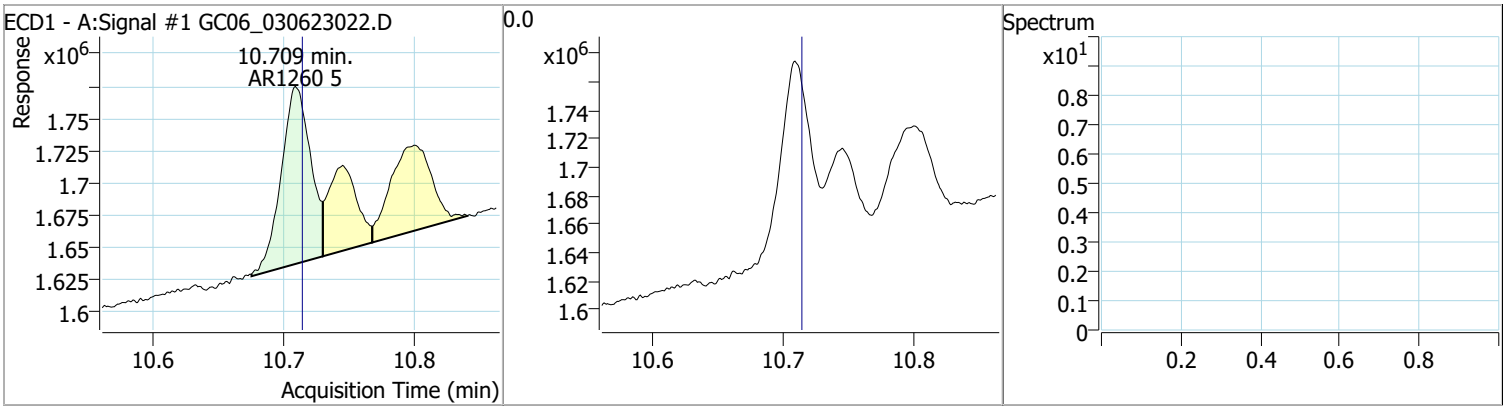
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AR1260 2 #2	53.2718	10.13	0.00	944330				



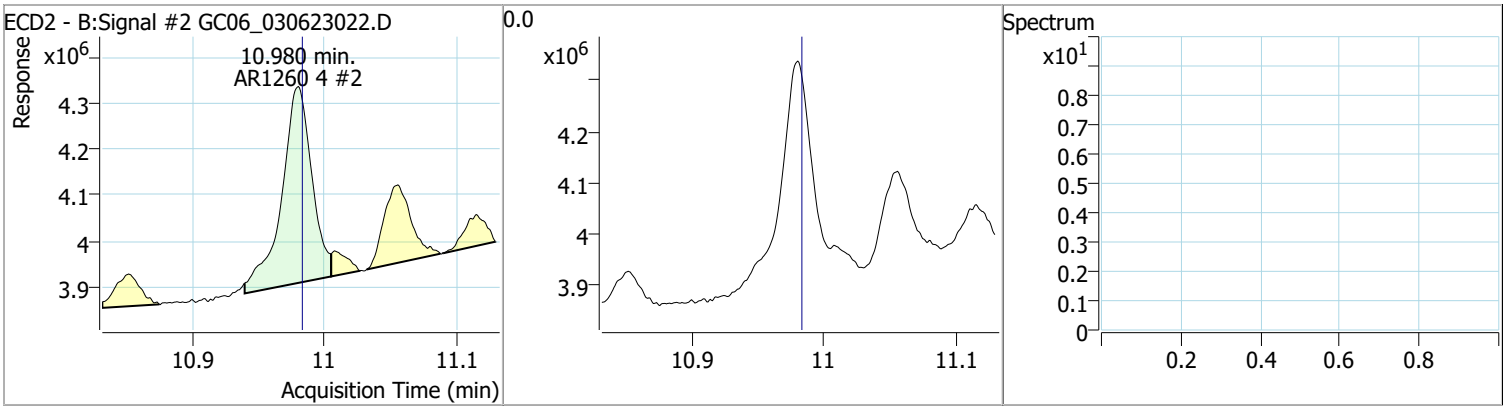
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	46.9724	10.56	0.00	1103850				



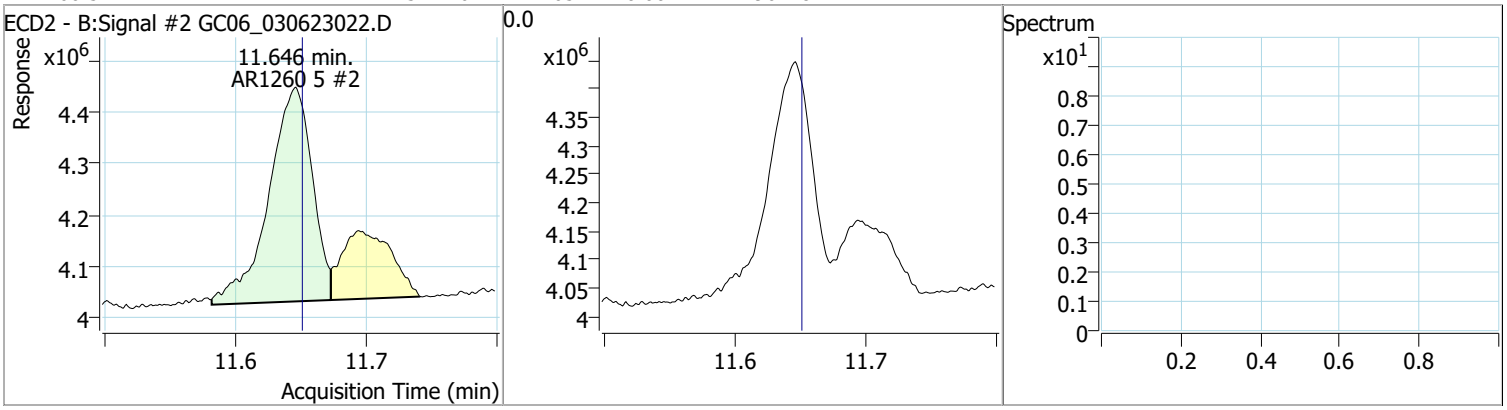
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	50.3656	10.71	0.00	214360				



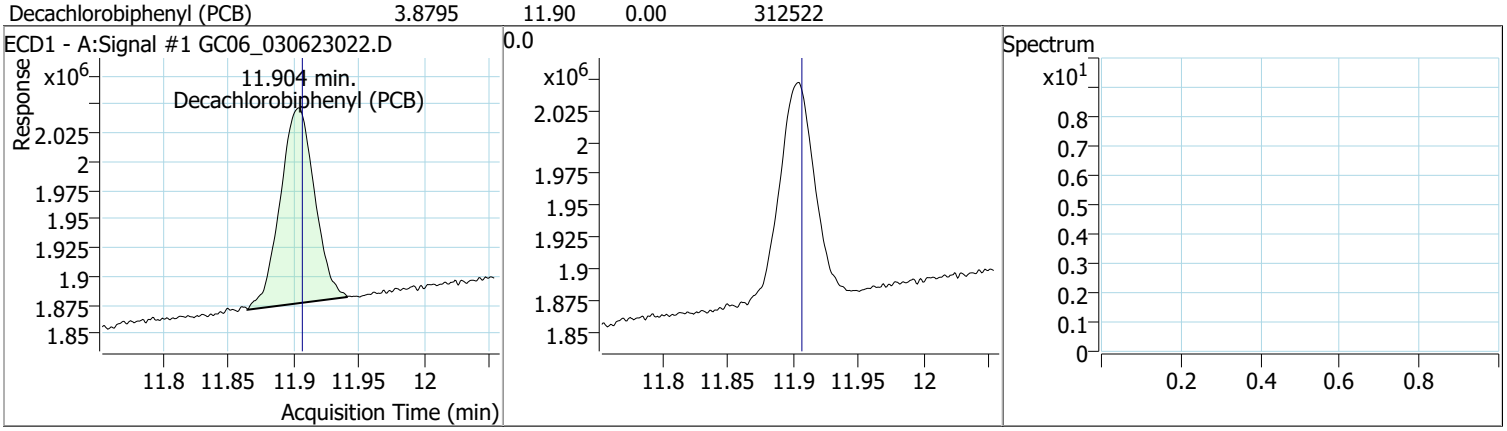
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	50.0408	10.98	0.00	688840				



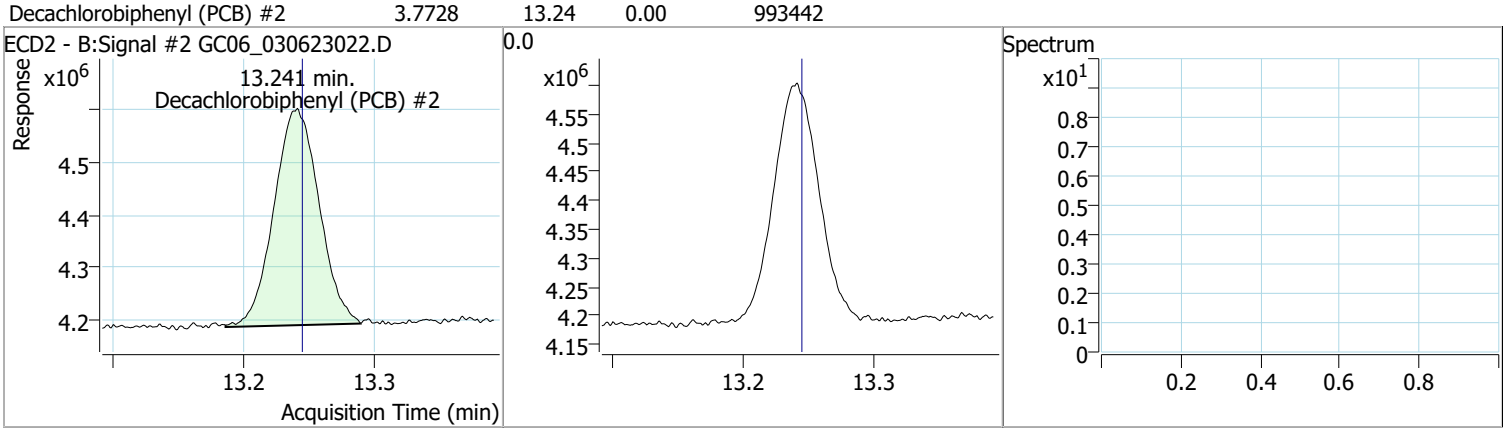
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	45.7726	11.65	0.00	964487				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	3.8795	11.90	0.00	312522				

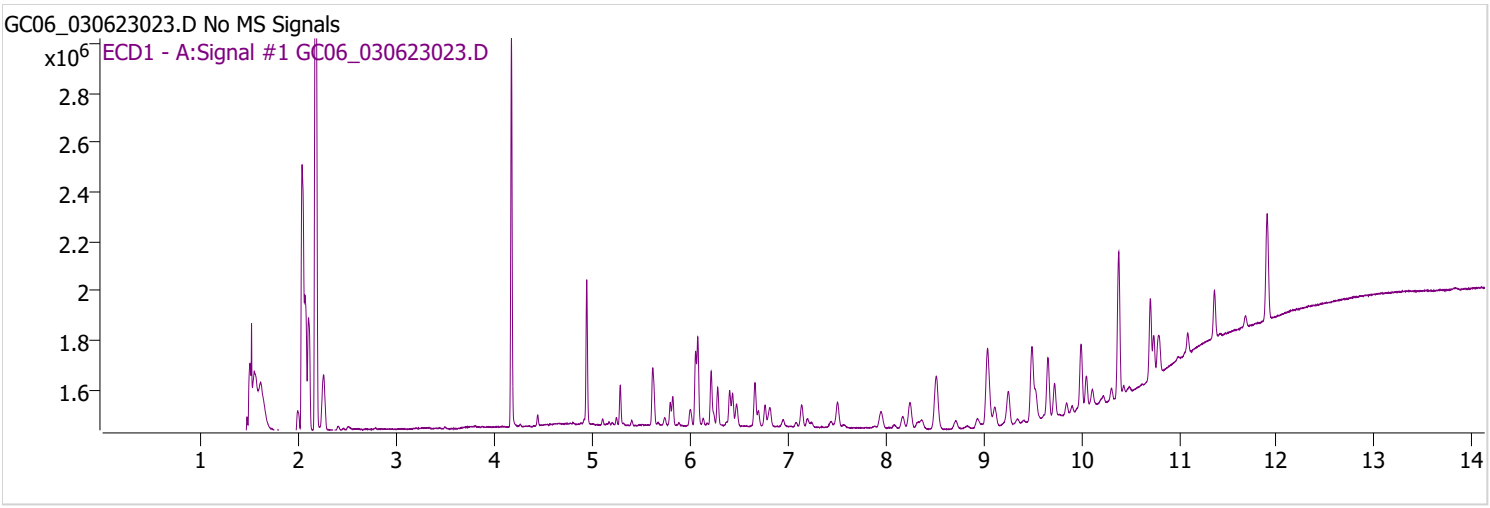


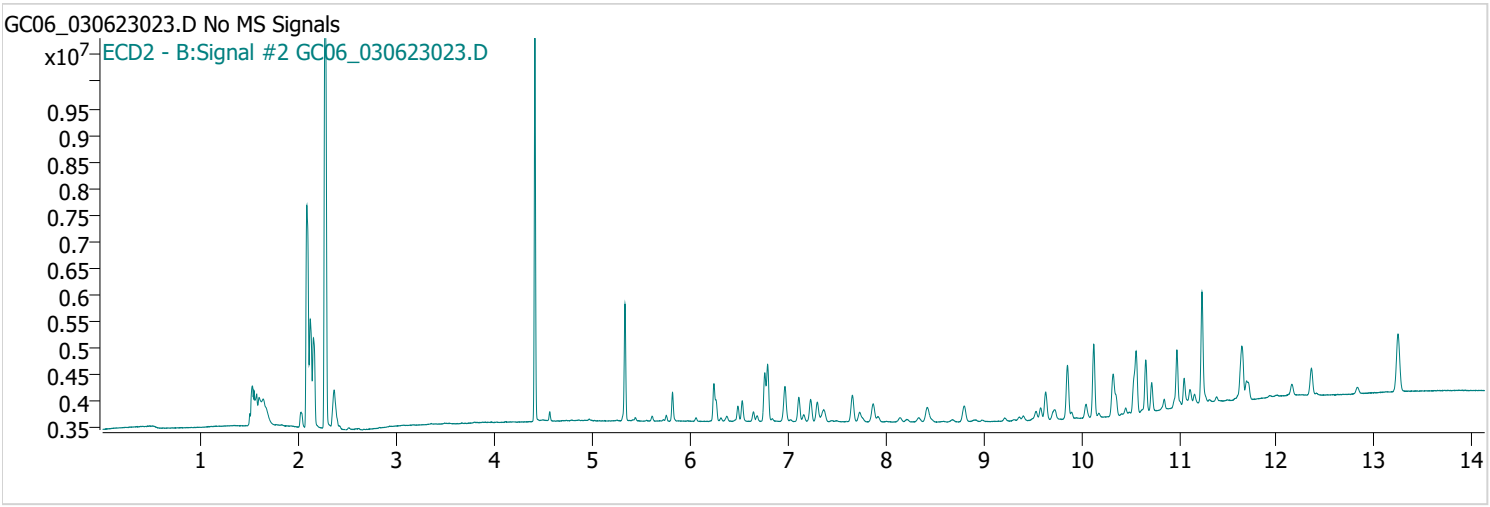
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	3.7728	13.24	0.00	993442				



Quantitation Results Report (Not Reviewed)

Data File	GC06_030623023.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/6/2023 7:06:45 PM
Sample Name	ICAL, S17799	Instrument	SVOA-GC06
Vial	14	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	030623PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



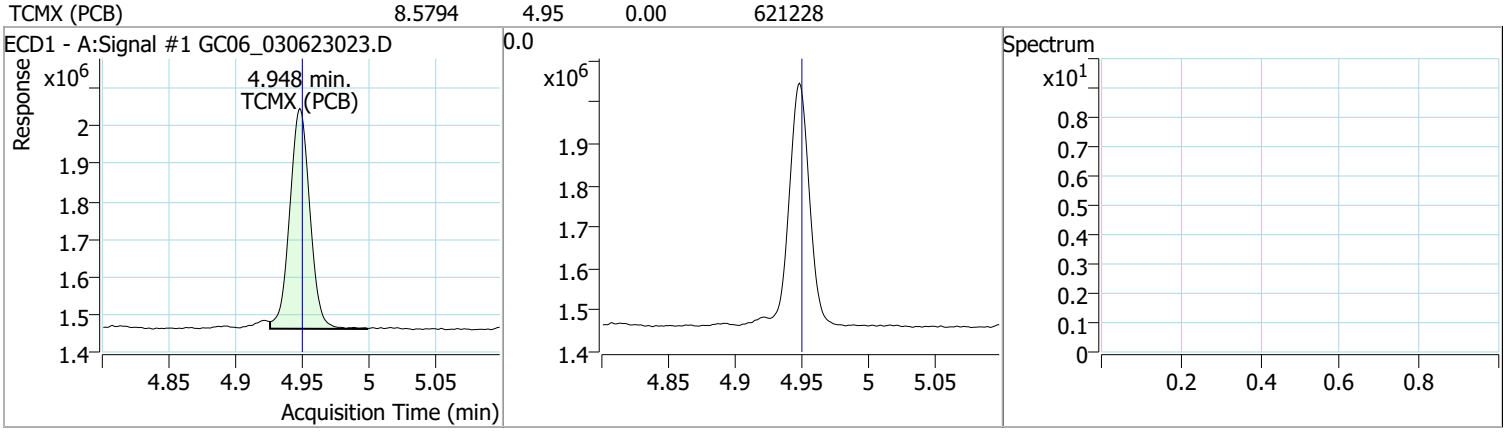


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.179	0.0	1561121.025	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	6388162.865	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.948	0.0	621228.015	8.5794	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 42.90%		*	
S TCMX (PCB) #2	5.339	0.0	2429876.093	7.9203	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 39.60%		*	
S Decachlorobiphenyl (PCB)	11.903	0.0	793705.966	8.5487	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 42.74%		*	
S Decachlorobiphenyl (PCB) #2	13.239	0.0	2587236.521	8.4179	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 42.09%		*	
Target Compounds							**QValue**
T AR1016 1	5.292	0.0	178528.262	111.7750	ng/ml	m	100

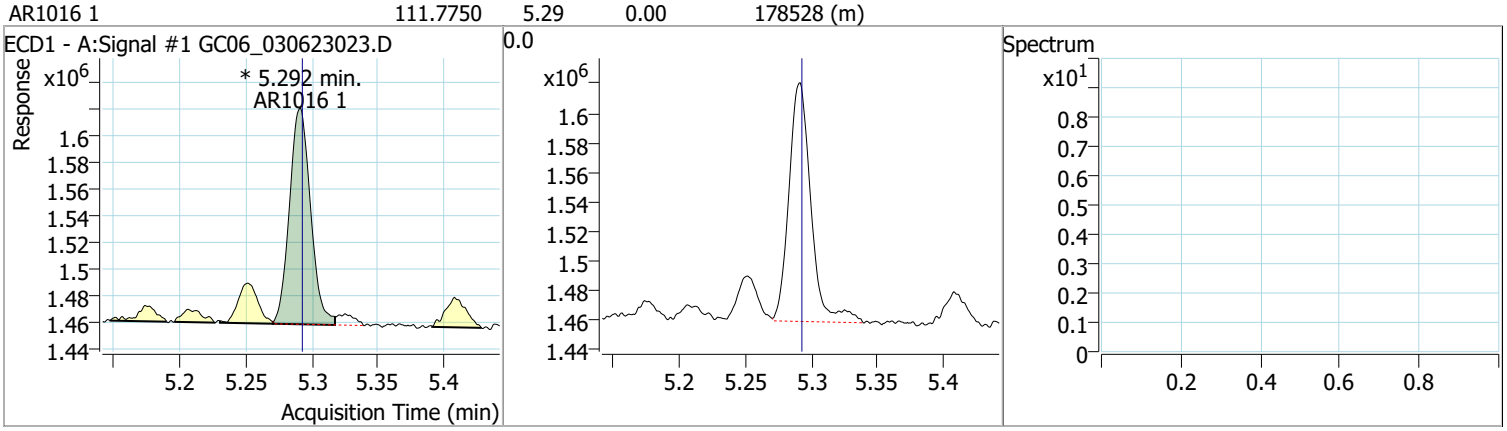
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 2	5.623	0.0	390905.564	100.2464	ng/ml		100
T AR1016 1 #2	5.825	0.0	666107.291	109.4996	ng/ml		100
T AR1016 3	6.083	0.0	473587.448	100.4825	ng/ml		100
T AR1016 4	6.220	0.0	347279.715	111.3206	ng/ml		100
T AR1016 2 #2	6.248	0.0	1413073.523	104.9430	ng/ml		100
T AR1016 5	6.409	0.0	206012.377	115.9857	ng/ml	m	100
T AR1016 3 #2	6.798	0.0	1710313.577	104.0768	ng/ml		100
T AR1016 4 #2	6.974	0.0	1250696.501	103.0439	ng/ml		100
T AR1016 5 #2	7.663	0.0	992853.744	100.6121	ng/ml		100
T AR1260 1	8.521	0.0	578902.795	102.5878	ng/ml		100
T AR1260 2	9.045	0.0	828343.946	115.2535	ng/ml		100
T AR1260 3	9.498	0.0	868859.400	110.6780	ng/ml	m	100
T AR1260 1 #2	9.861	0.0	1836066.511	108.2545	ng/ml		100
T AR1260 4	10.000	0.0	491681.312	106.4677	ng/ml		100
T AR1260 2 #2	10.130	0.0	2253868.671	108.9304	ng/ml		100
T AR1260 3 #2	10.563	0.0	2719542.507	99.1460	ng/ml		100
T AR1260 5	10.708	0.0	531275.973	108.3070	ng/ml		100
T AR1260 4 #2	10.979	0.0	1649808.774	102.6802	ng/ml	m	100
T AR1260 5 #2	11.643	0.0	2402423.191	97.6801	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

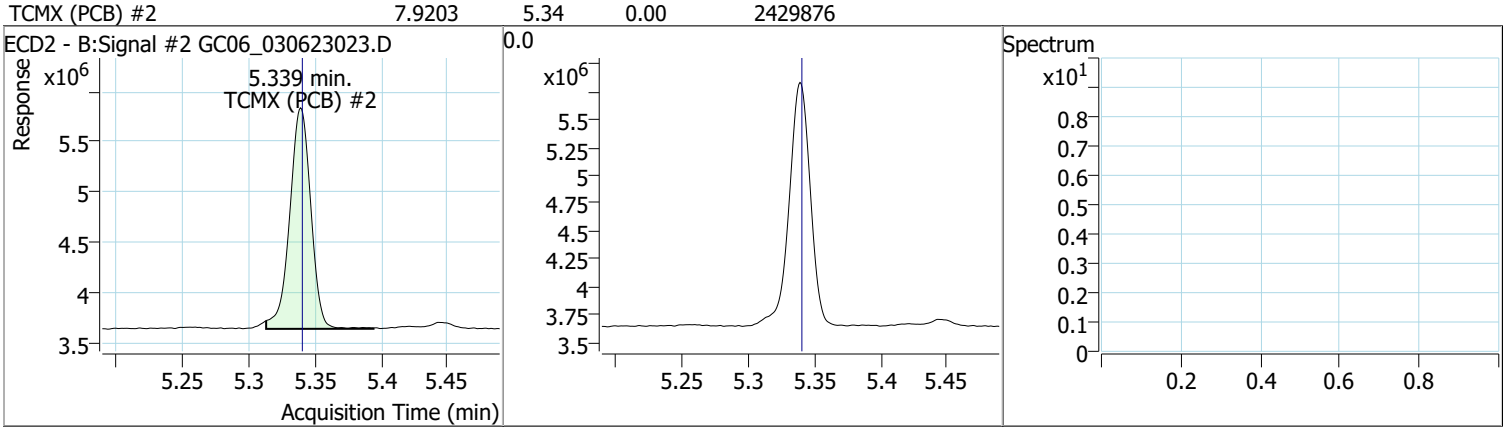
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	8.5794	4.95	0.00	621228				



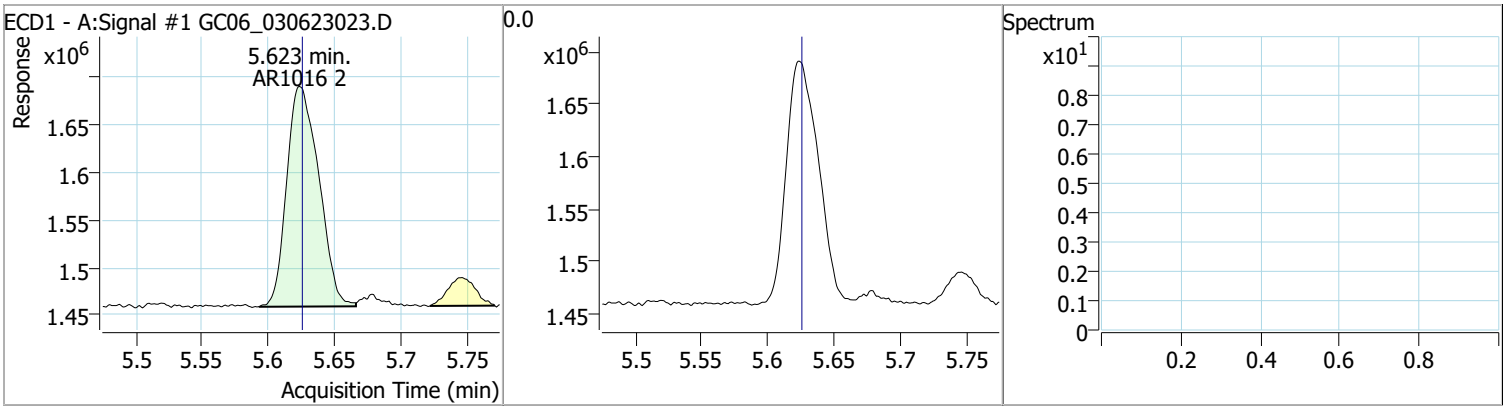
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	111.7750	5.29	0.00	178528 (m)				



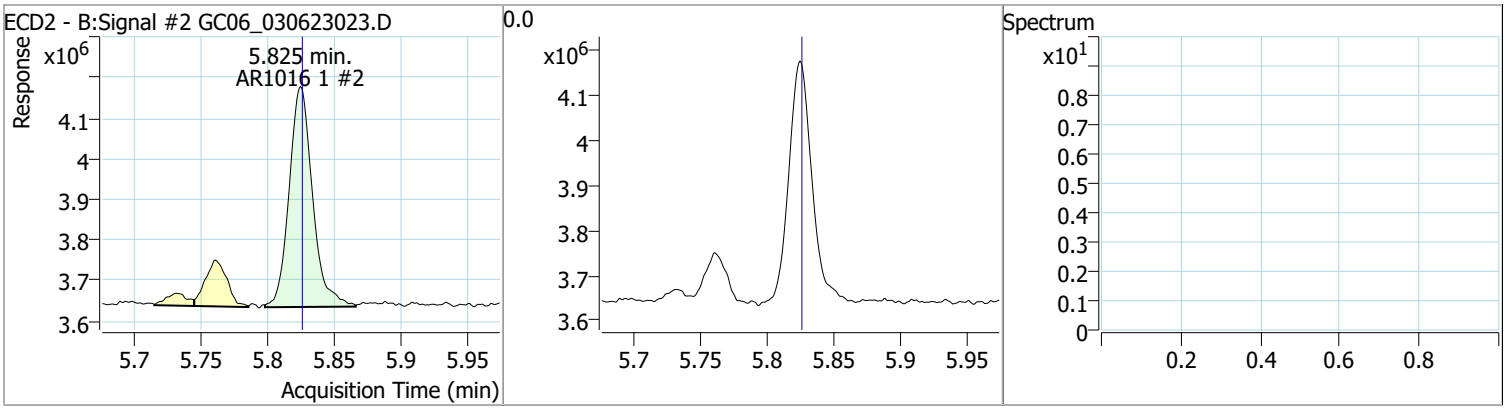
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	7.9203	5.34	0.00	2429876				



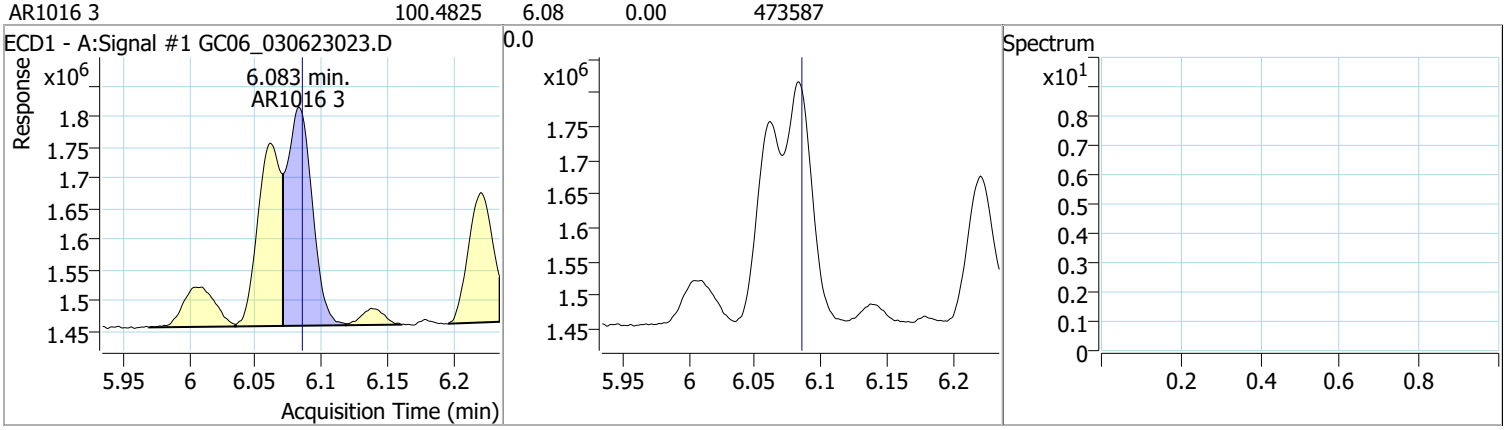
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	100.2464	5.62	0.00	390906				



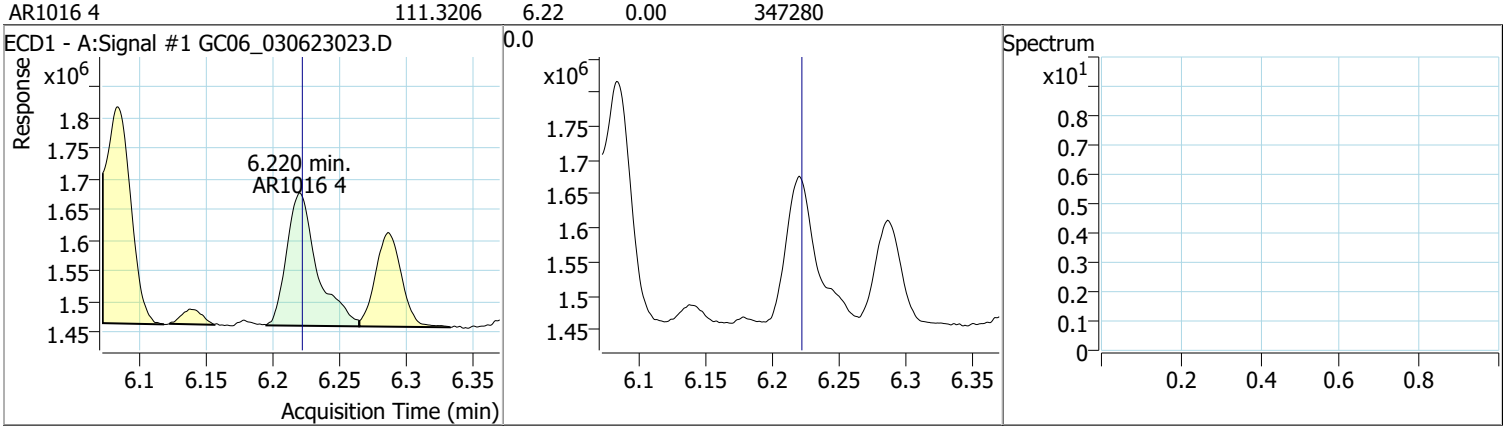
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	109.4996	5.83	0.00	666107				



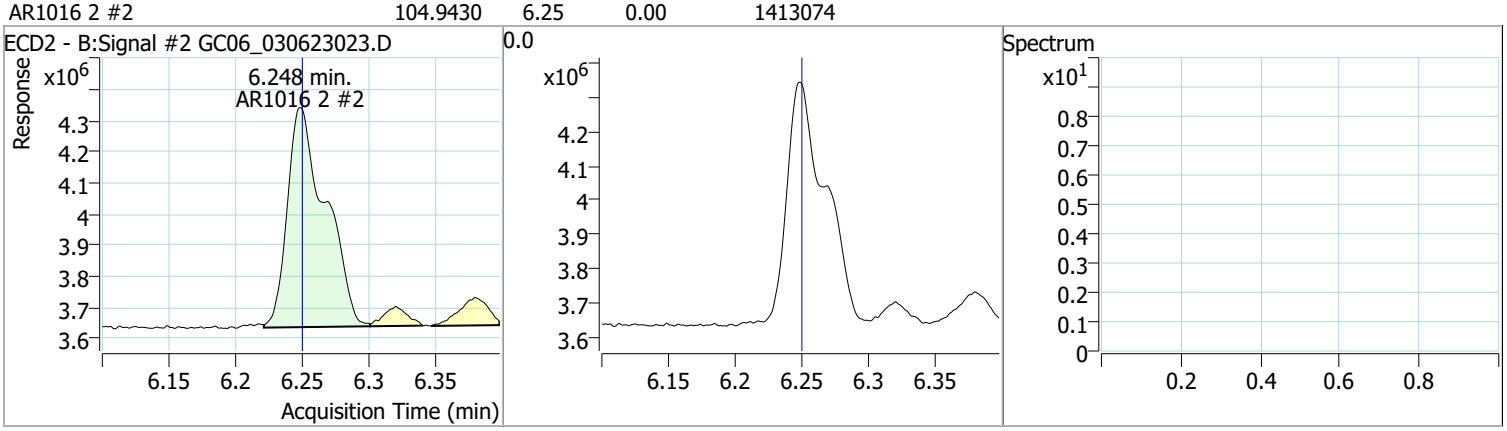
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	100.4825	6.08	0.00	473587				



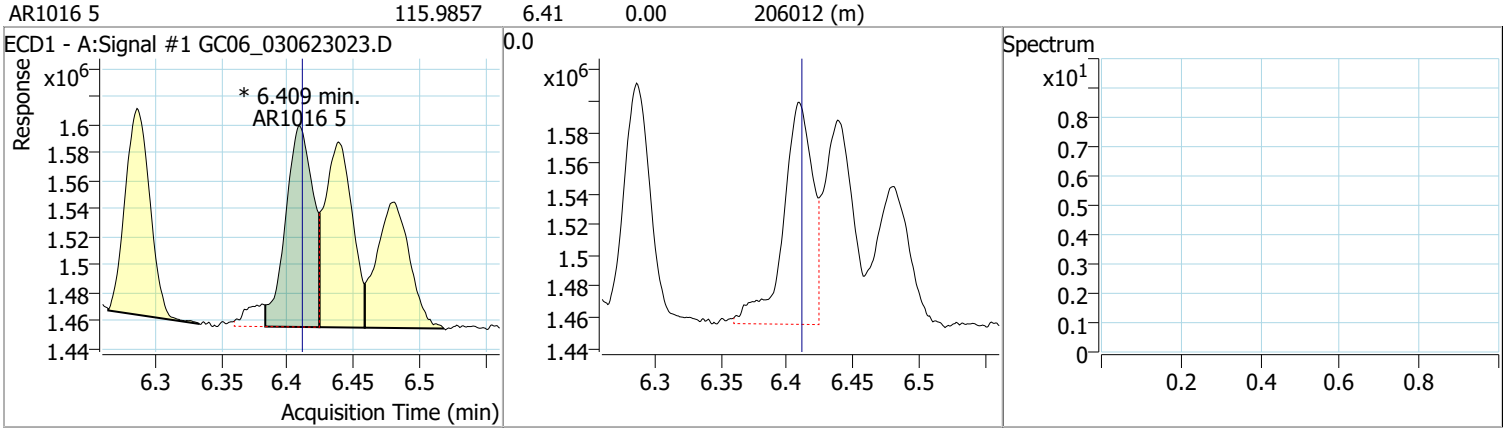
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	111.3206	6.22	0.00	347280				



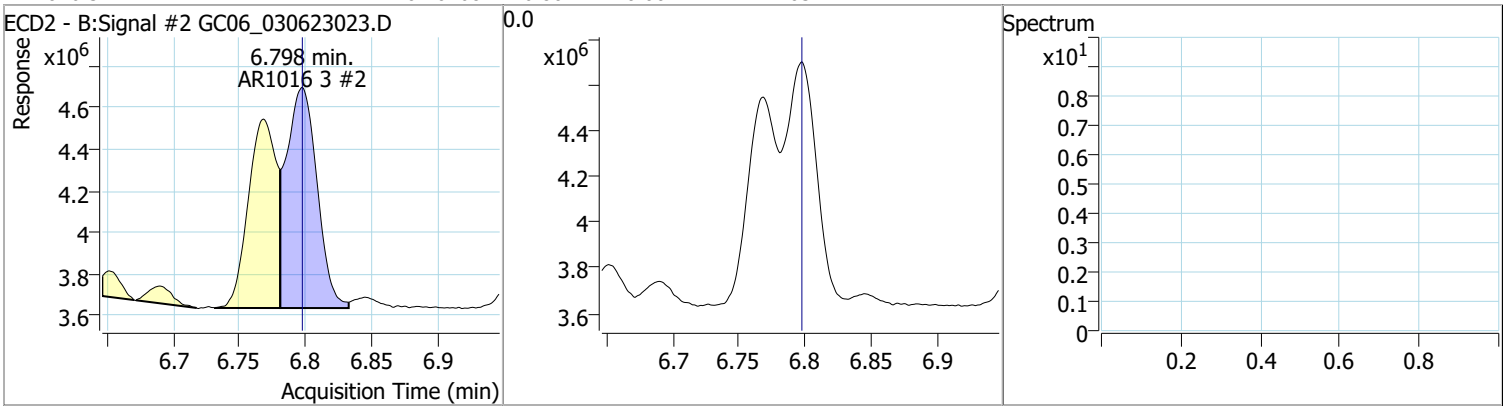
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	104.9430	6.25	0.00	1413074				



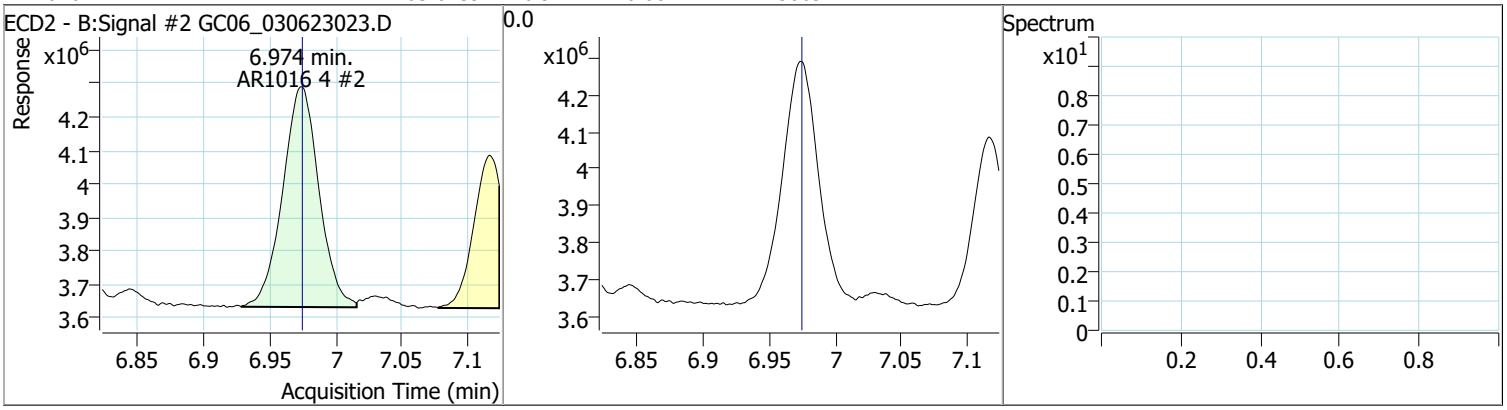
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	115.9857	6.41	0.00	206012 (m)				



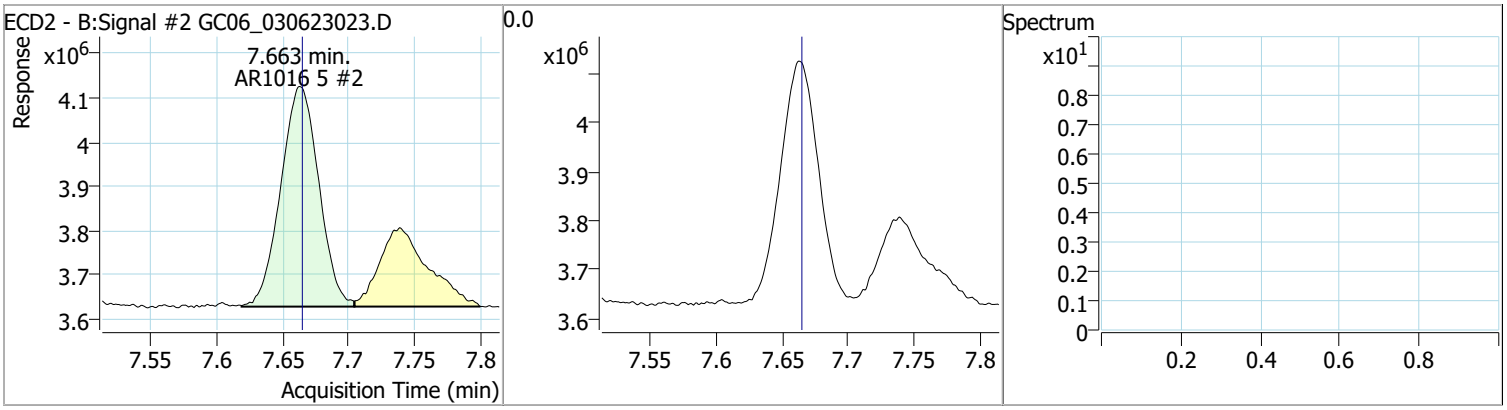
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AR1016 3 #2	104.0768	6.80	0.00	1710314				



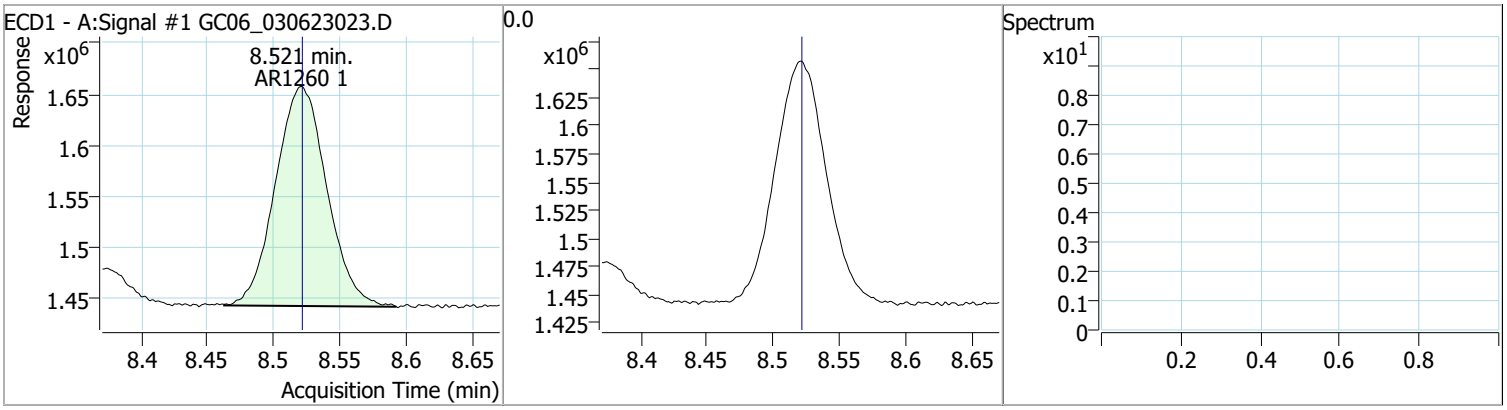
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AR1016 4 #2	103.0439	6.97	0.00	1250697				



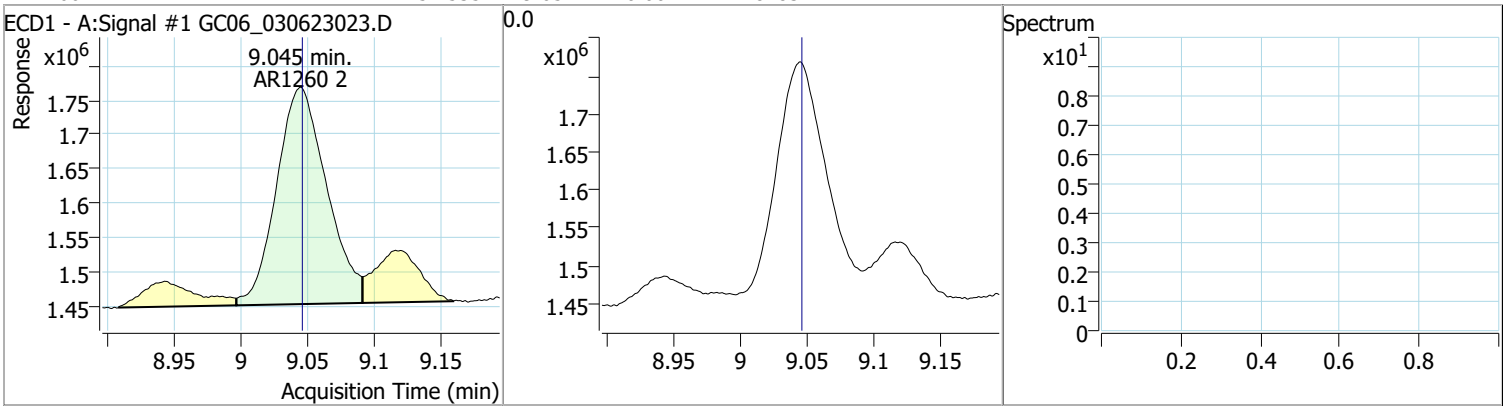
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	100.6121	7.66	0.00	992854				



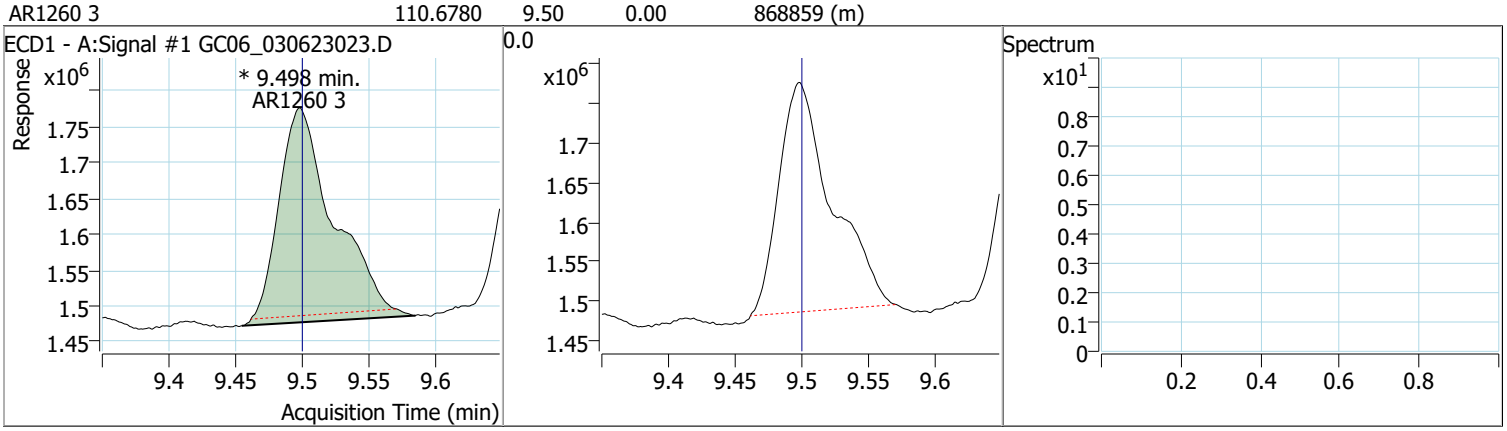
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	102.5878	8.52	0.00	578903				



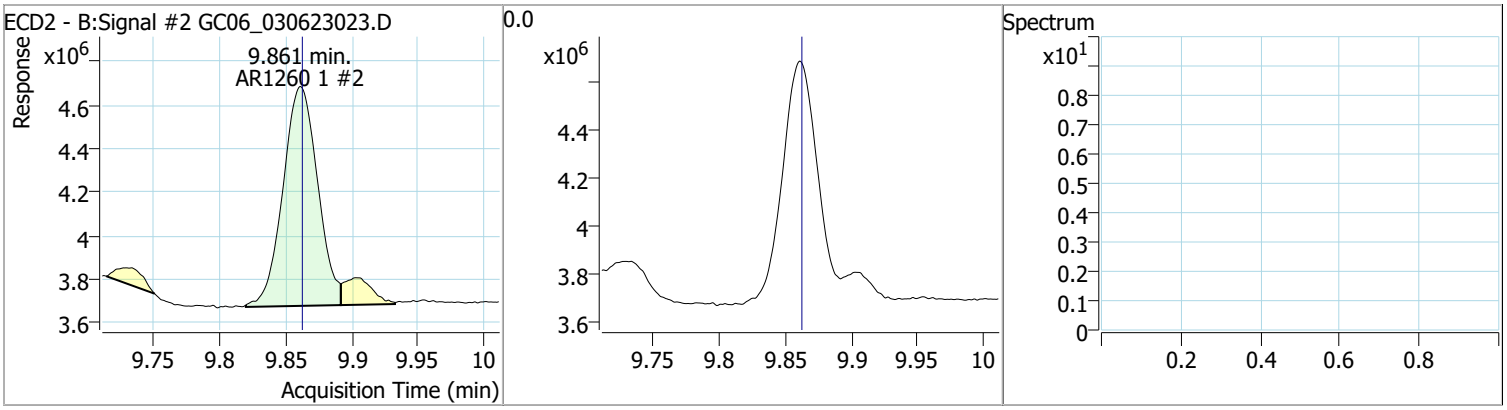
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	115.2535	9.05	0.00	828344				



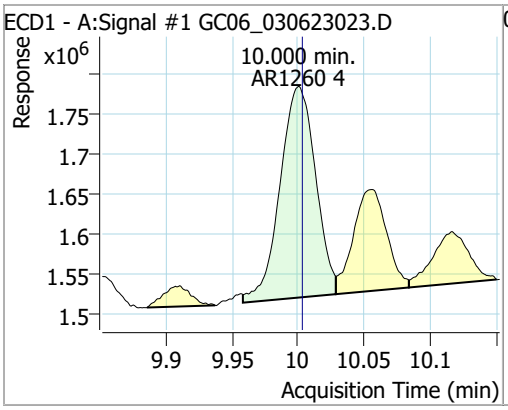
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	110.6780	9.50	0.00	868859 (m)				

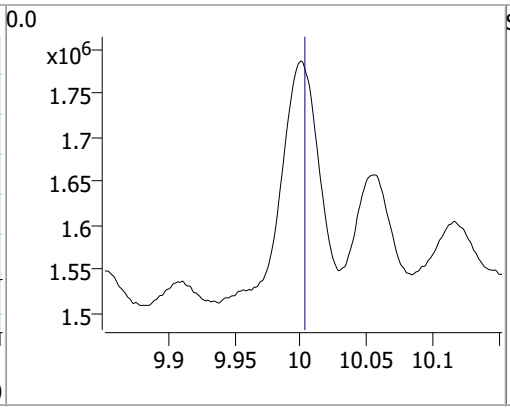


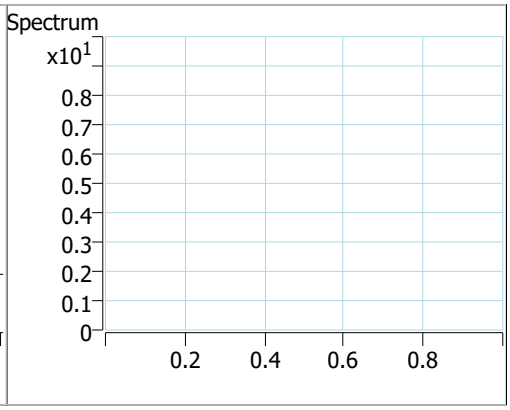
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	108.2545	9.86	0.00	1836067				



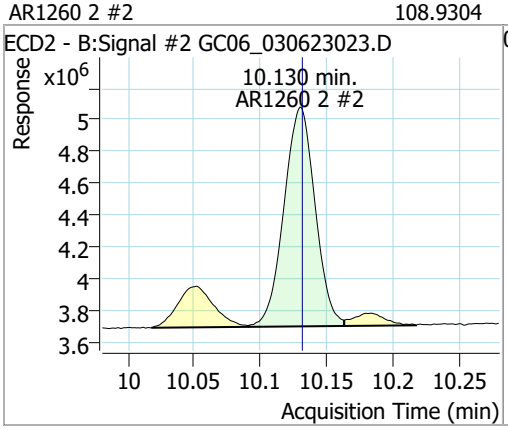
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	106.4677	10.00	0.00	491681				

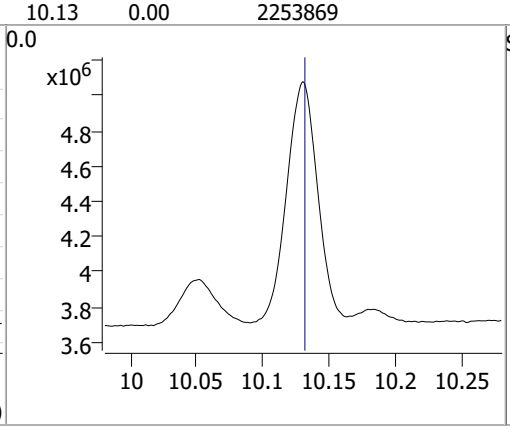


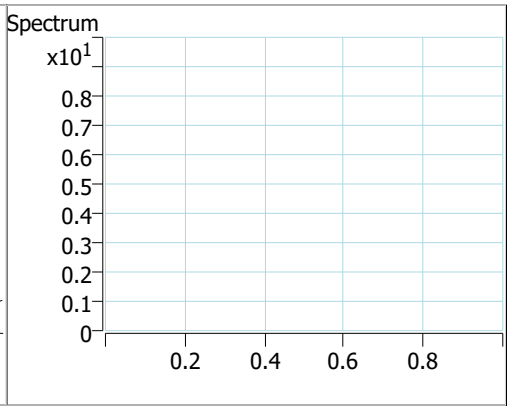




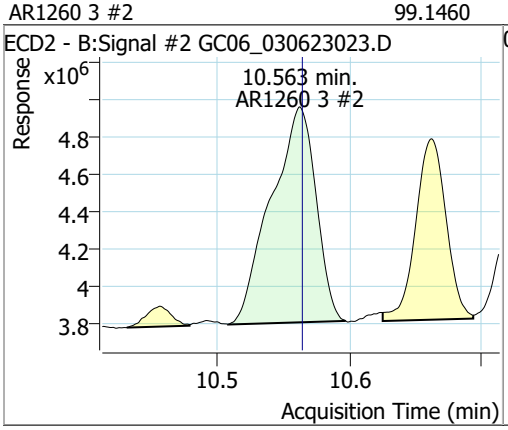
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	108.9304	10.13	0.00	2253869				

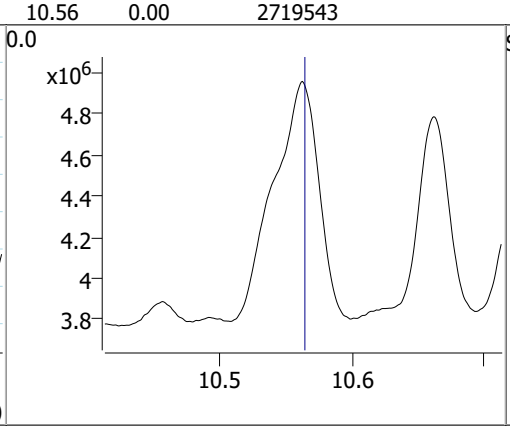


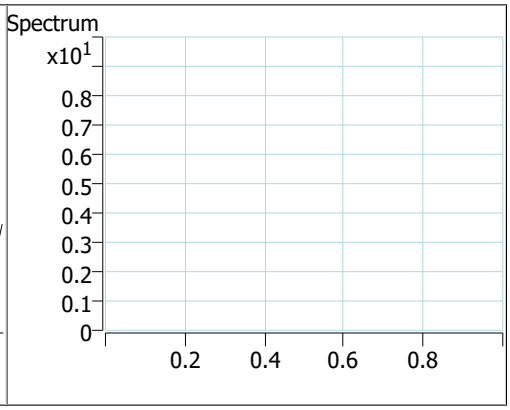




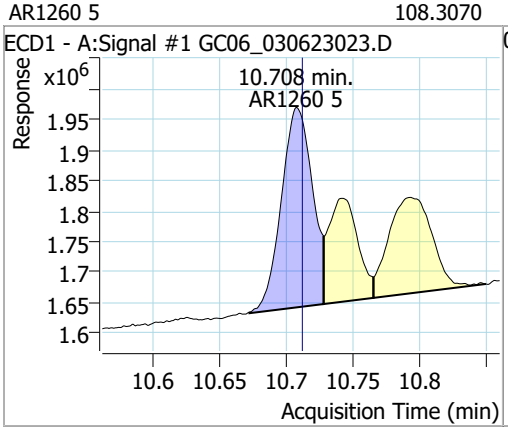
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	99.1460	10.56	0.00	2719543				

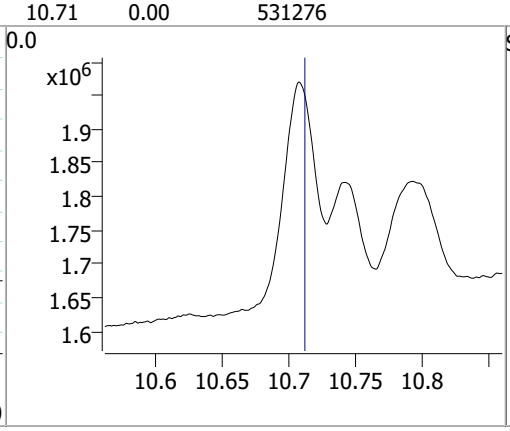


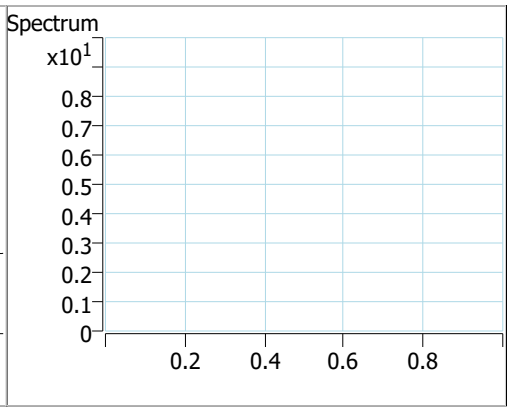




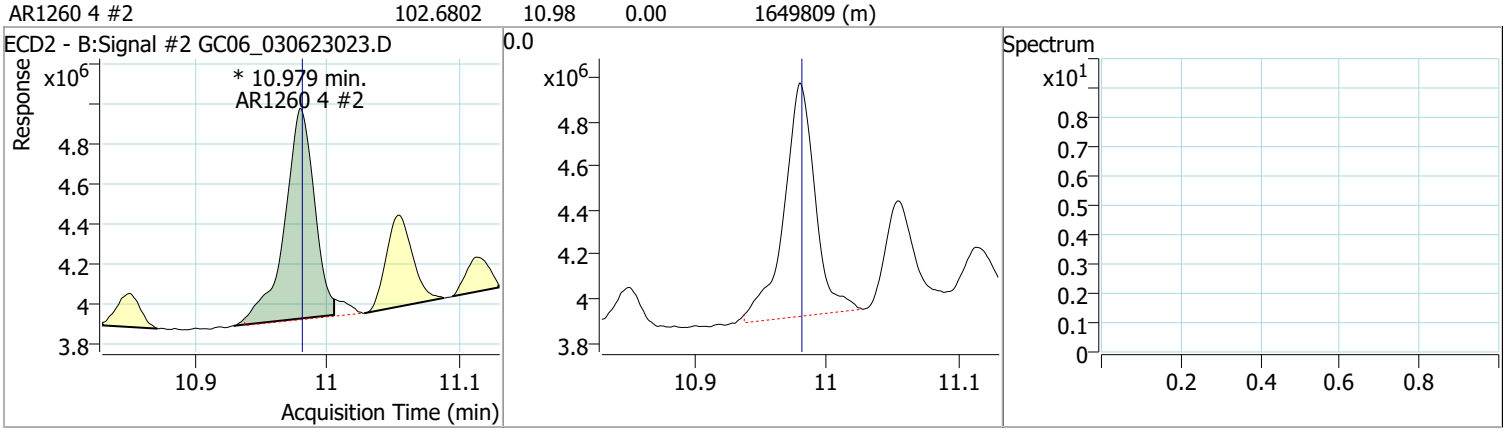
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	108.3070	10.71	0.00	531276				



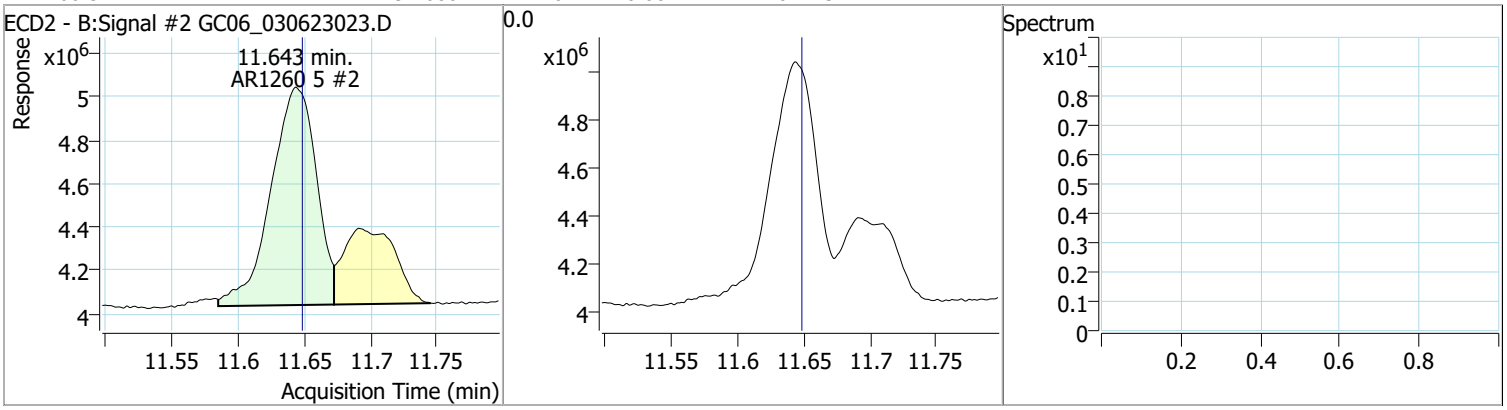




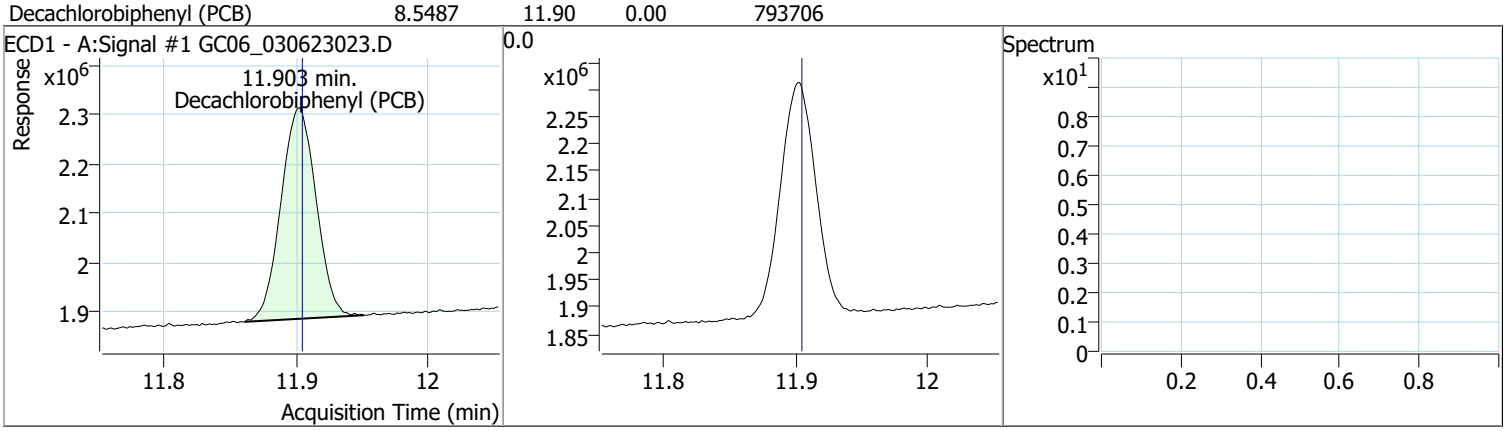
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	102.6802	10.98	0.00	1649809 (m)				



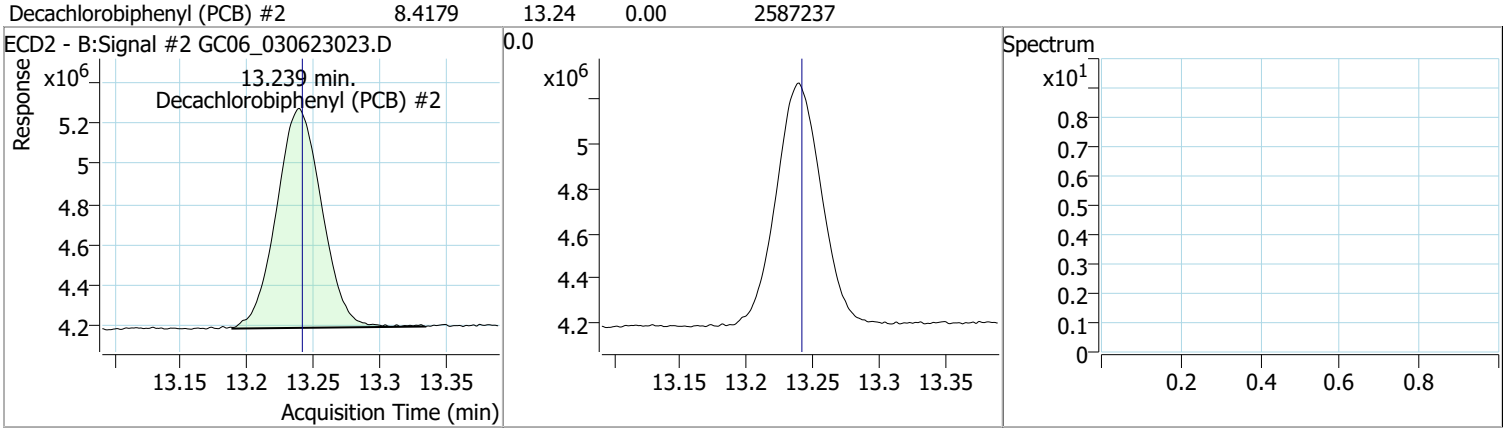
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	97.6801	11.64	0.00	2402423				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	8.5487	11.90	0.00	793706				

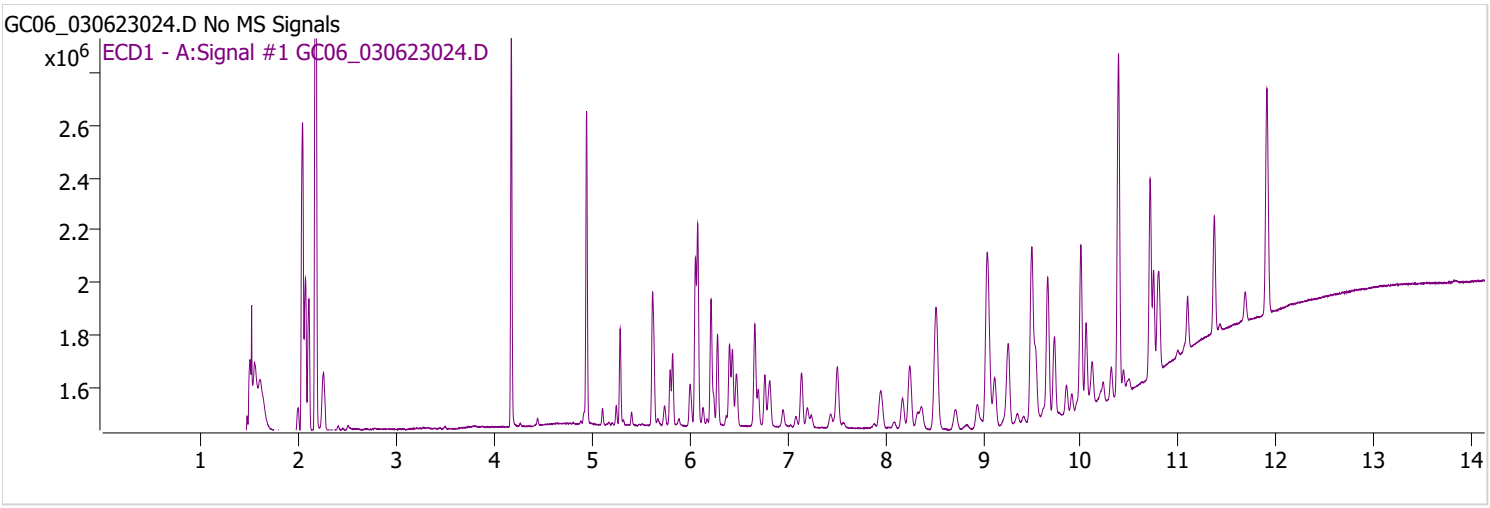


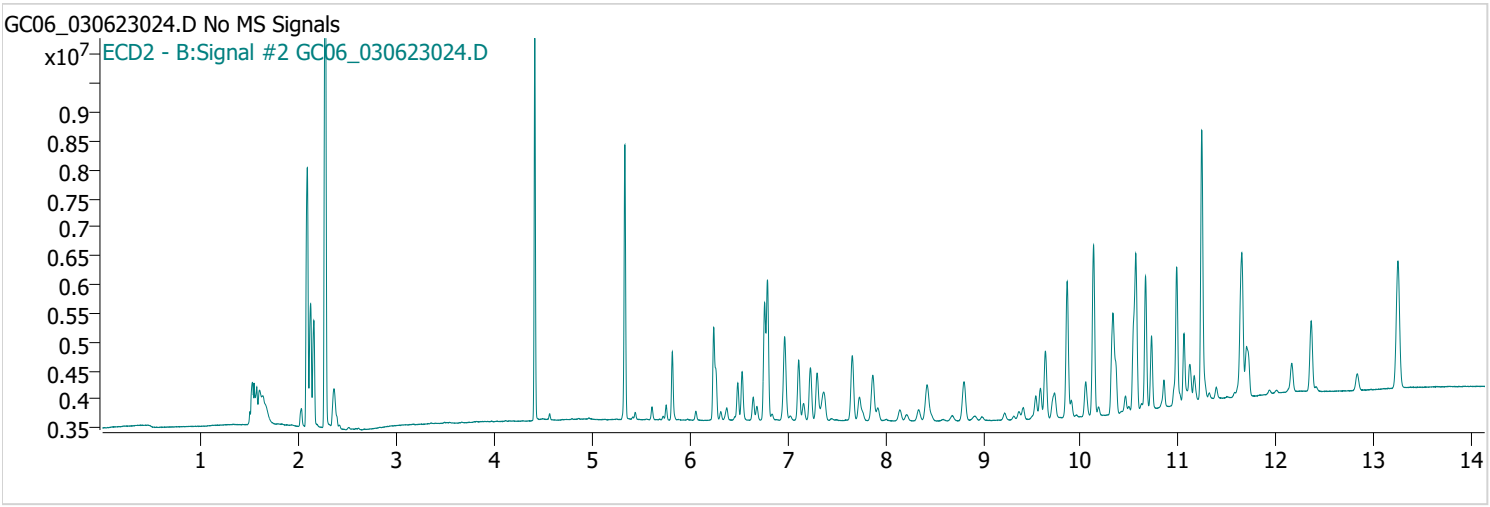
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	8.4179	13.24	0.00	2587237				



Quantitation Results Report (Not Reviewed)

Data File	GC06_030623024.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/6/2023 7:25:10 PM
Sample Name	ICAL, S17800	Instrument	SVOA-GC06
Vial	15	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	030623PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



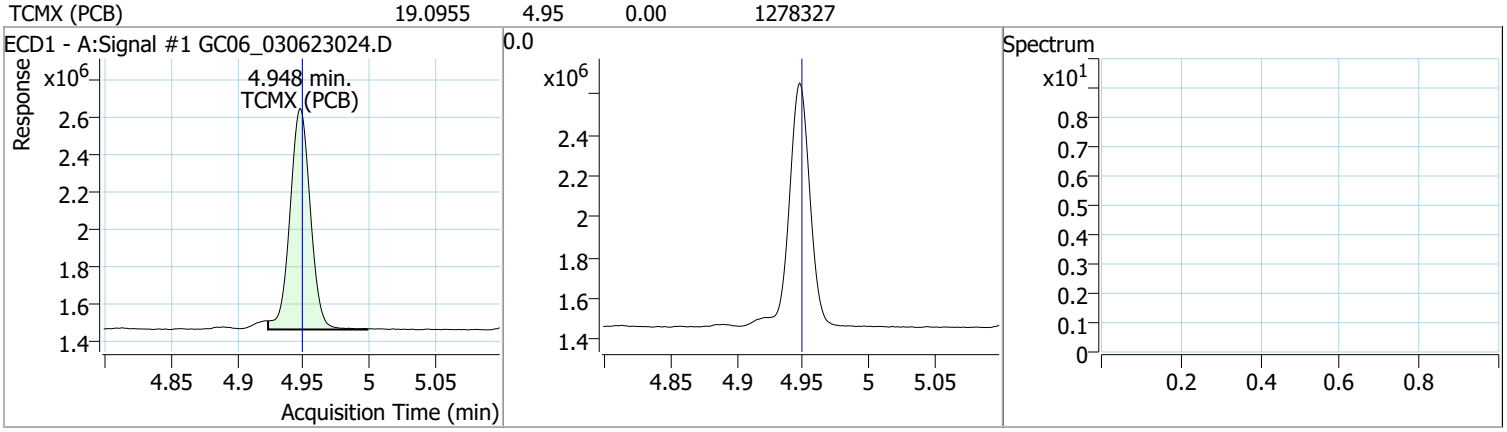


Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.178	0.0	1443290.389	20.0000	ng/ml	-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	5882459.759	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.948	0.0	1278327.418	19.0955	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 95.48%		
S TCMX (PCB) #2	5.339	0.0	5145963.941	18.2155	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 91.08%		
S Decachlorobiphenyl (PCB)	11.902	0.0	1620920.632	18.8835	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 94.42%		
S Decachlorobiphenyl (PCB) #2	13.241	0.0	5320052.143	18.7974	ng/ml	0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 93.99%		
Target Compounds						QValue

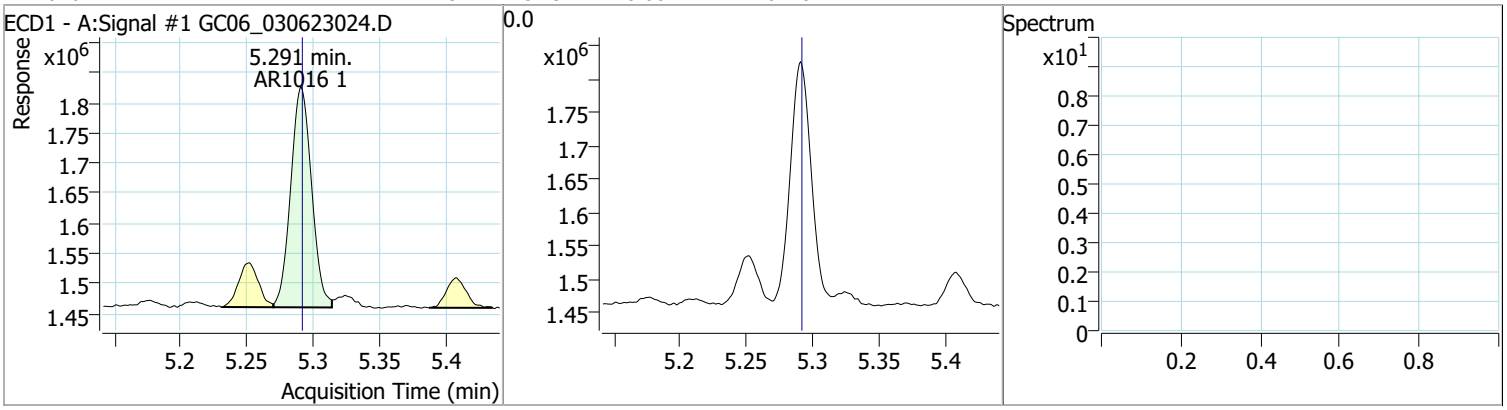
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.291	0.0	401283.973	271.7517	ng/ml		100
T AR1016 2	5.623	0.0	856116.692	269.4440	ng/ml		100
T AR1016 1 #2	5.824	0.0	1494944.668	266.8765	ng/ml		100
T AR1016 3	6.083	0.0	1039281.462	264.8887	ng/ml		100
T AR1016 4	6.220	0.0	774365.996	268.4882	ng/ml		100
T AR1016 2 #2	6.248	0.0	3162894.468	255.0882	ng/ml		100
T AR1016 5	6.408	0.0	469230.786	285.7462	ng/ml		100
T AR1016 3 #2	6.797	0.0	3859514.052	255.0515	ng/ml		100
T AR1016 4 #2	6.972	0.0	2842675.779	254.3401	ng/ml		100
T AR1016 5 #2	7.663	0.0	2273170.077	250.1576	ng/ml		100
T AR1260 1	8.519	0.0	1288743.565	260.0553	ng/ml		100
T AR1260 2	9.043	0.0	1843504.567	277.4408	ng/ml		100
T AR1260 3	9.499	0.0	1965751.400	270.8465	ng/ml	m	100
T AR1260 1 #2	9.860	0.0	4207408.315	269.3948	ng/ml		100
T AR1260 4	10.000	0.0	1133516.241	265.4880	ng/ml		100
T AR1260 2 #2	10.130	0.0	5097636.401	267.5508	ng/ml		100
T AR1260 3 #2	10.561	0.0	6380551.921	252.6124	ng/ml		100
T AR1260 5	10.708	0.0	1238952.873	273.1959	ng/ml		100
T AR1260 4 #2	10.979	0.0	3859719.601	260.8710	ng/ml	m	100
T AR1260 5 #2	11.645	0.0	5832726.411	257.5404	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

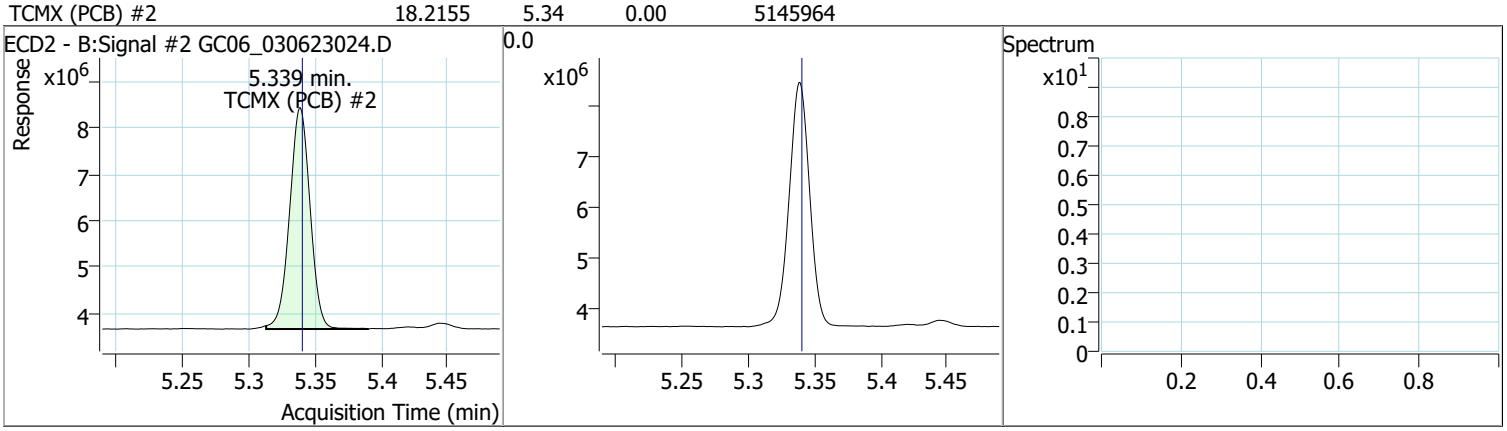
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	19.0955	4.95	0.00	1278327				



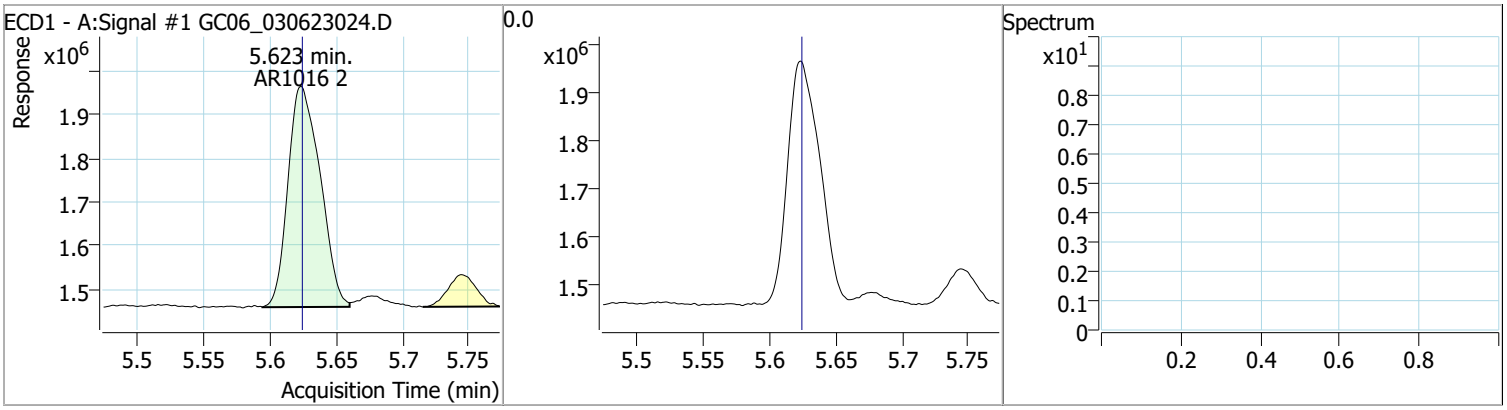
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	271.7517	5.29	0.00	401284				



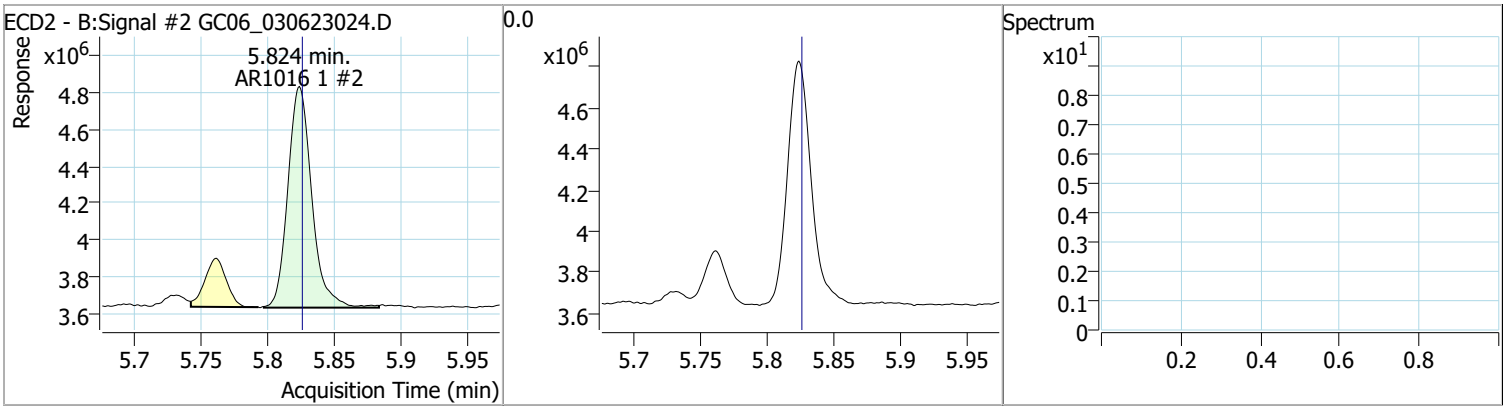
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	18.2155	5.34	0.00	5145964				



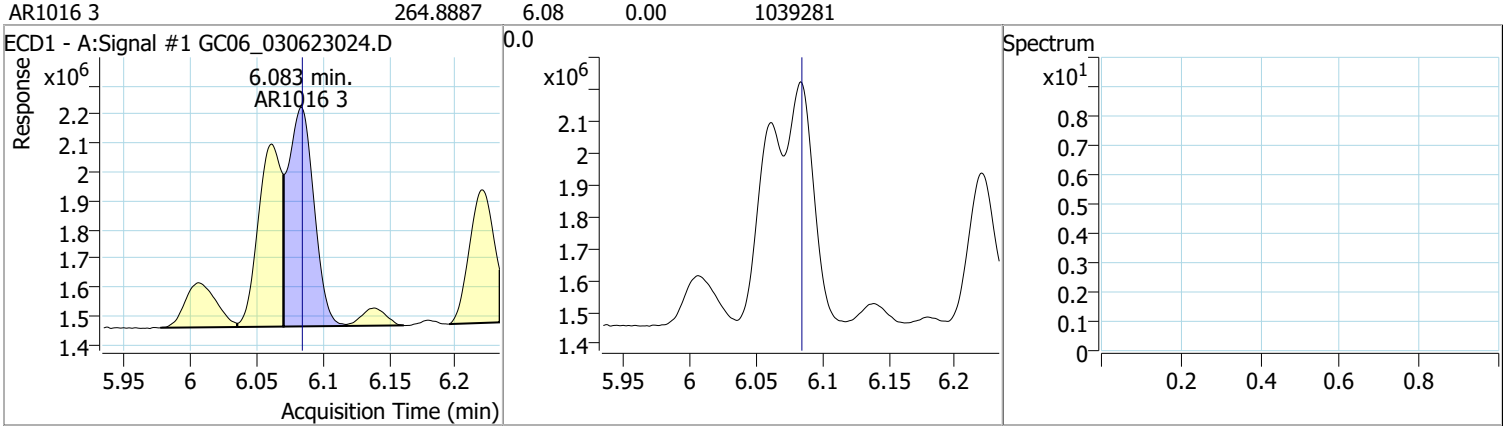
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	269.4440	5.62	0.00	856117				



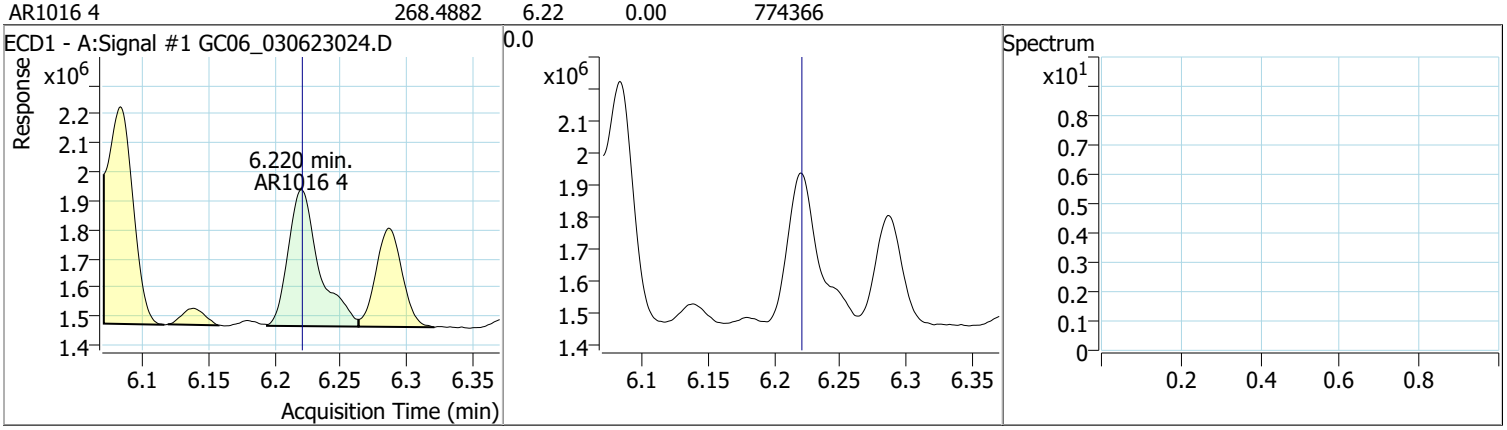
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	266.8765	5.82	0.00	1494945				



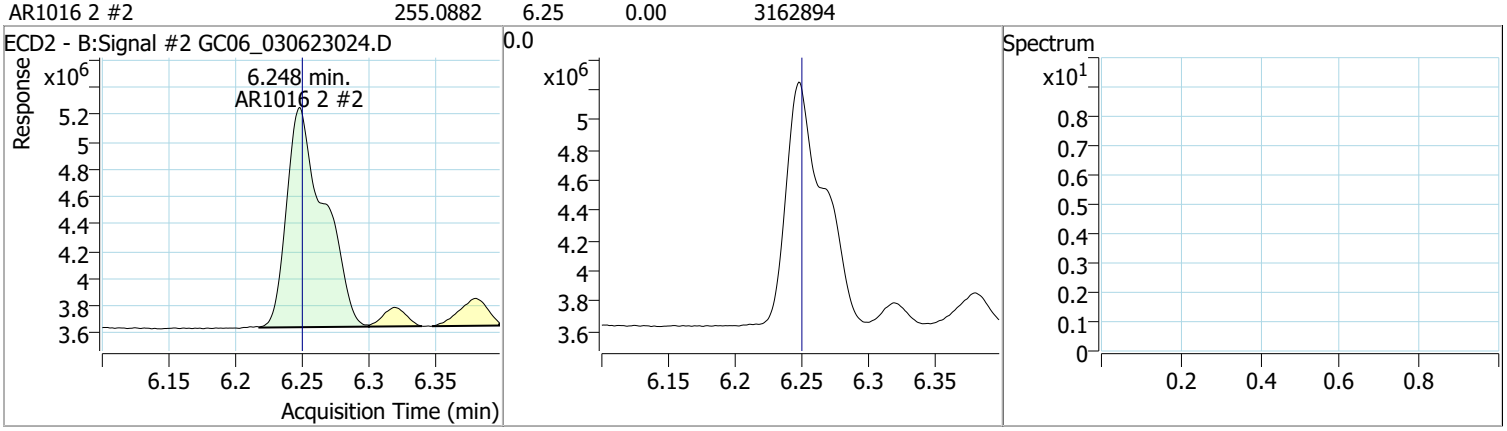
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	264.8887	6.08	0.00	1039281				



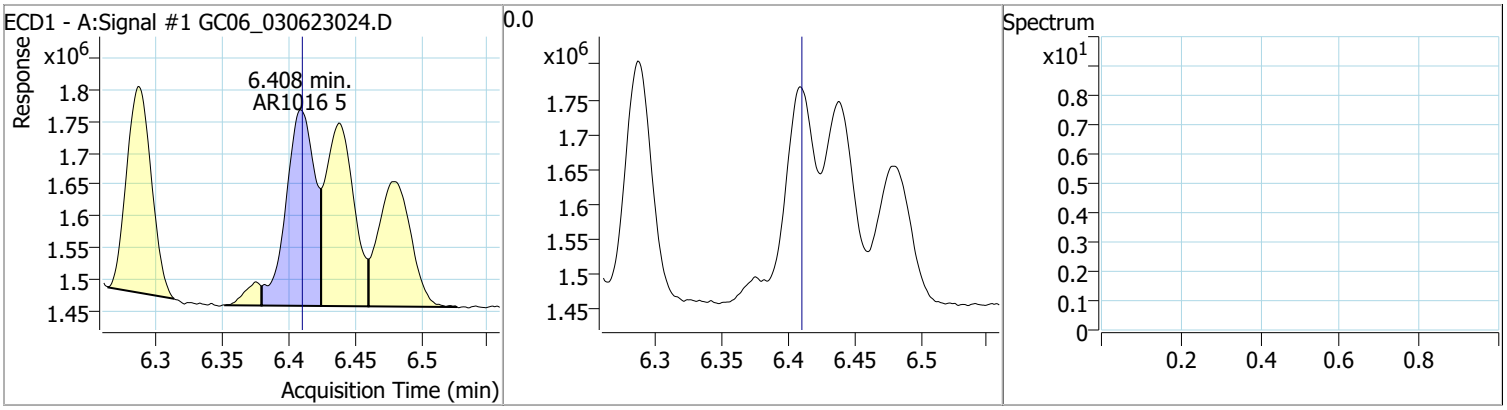
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	268.4882	6.22	0.00	774366				



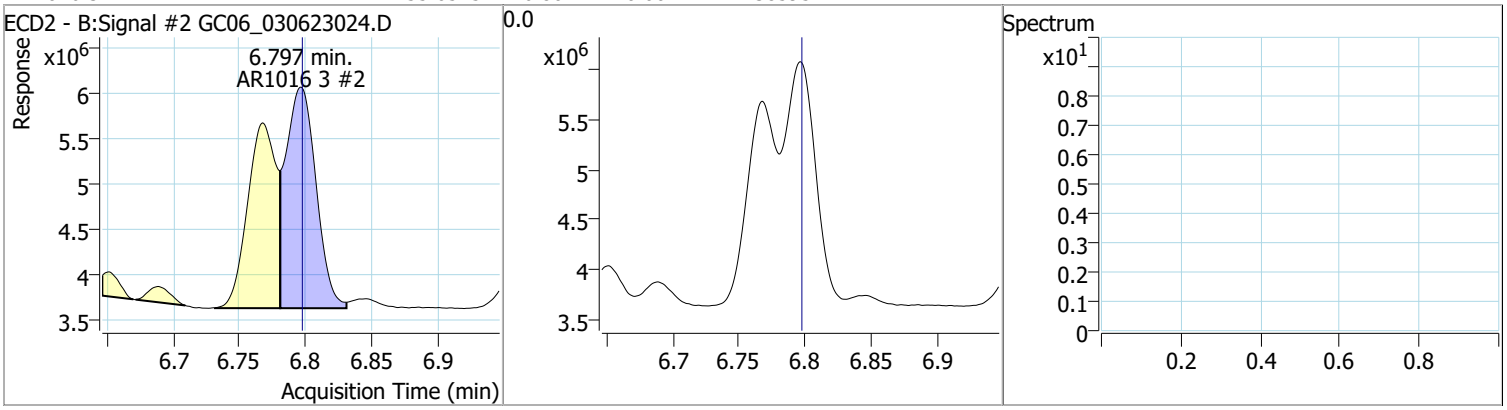
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	255.0882	6.25	0.00	3162894				



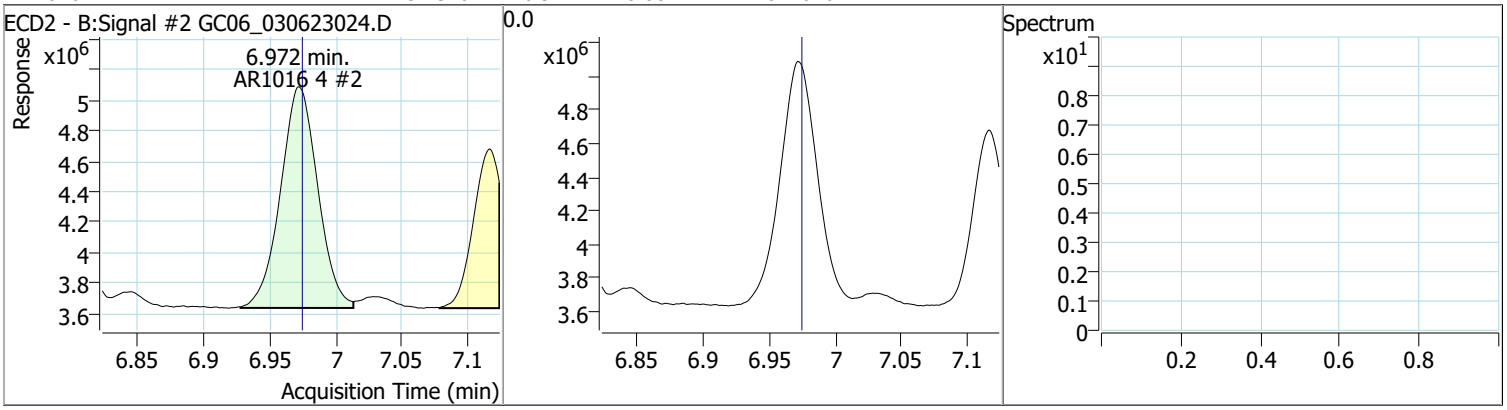
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	285.7462	6.41	0.00	469231				



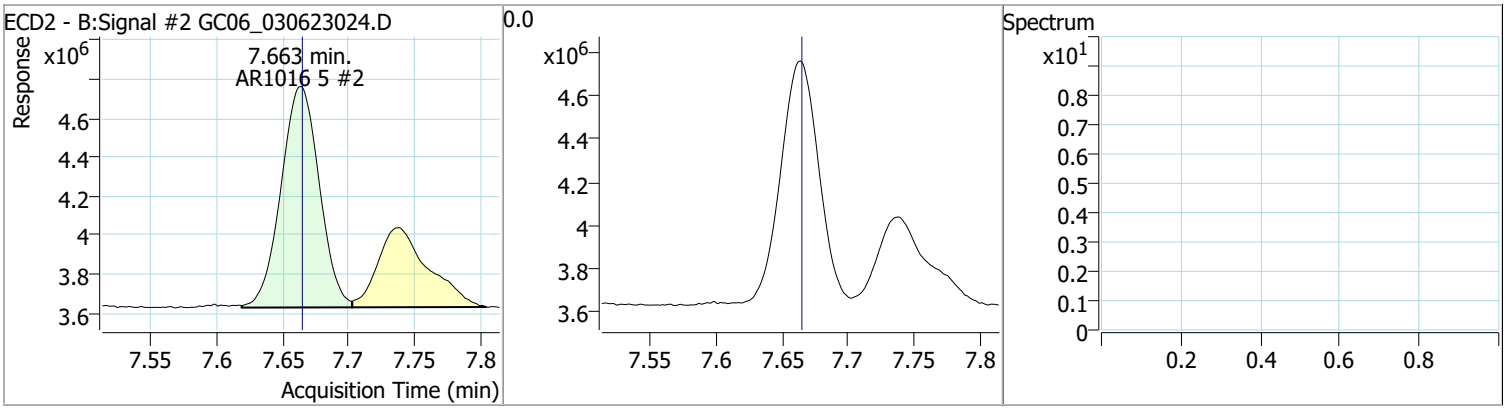
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	255.0515	6.80	0.00	3859514				



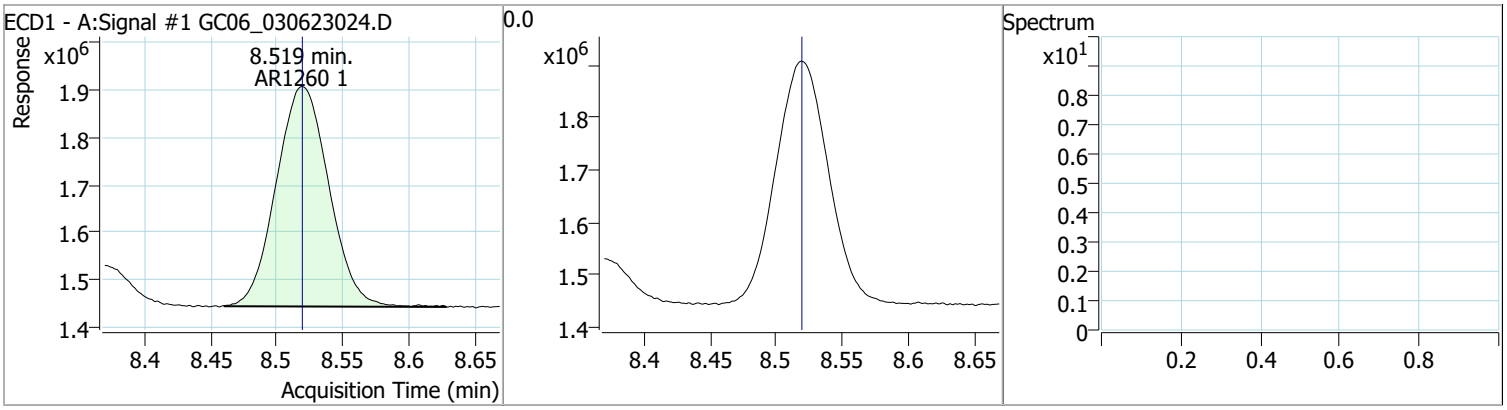
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AR1016 4 #2	254.3401	6.97	0.00	2842676				



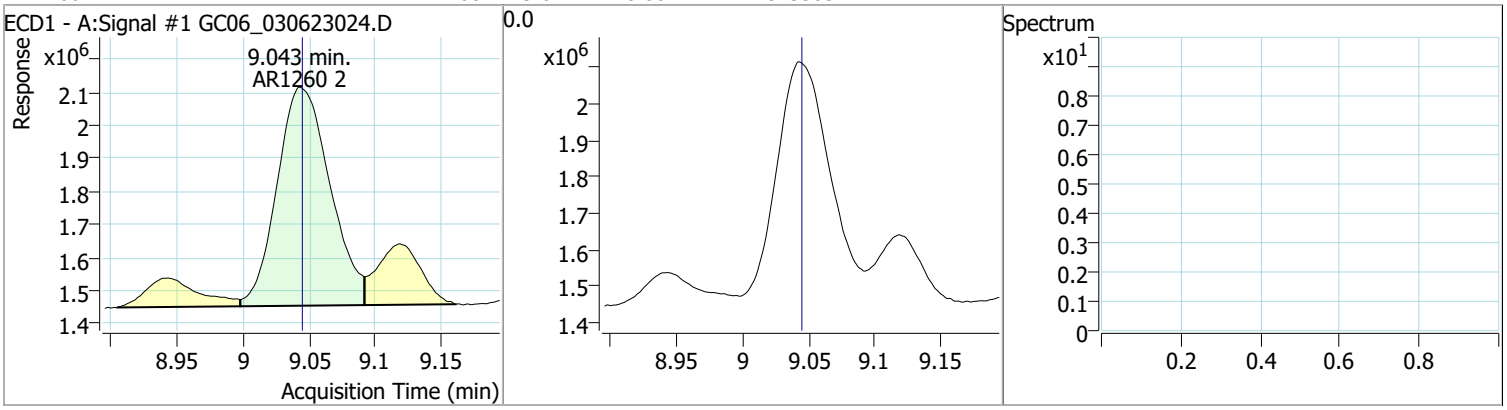
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	250.1576	7.66	0.00	2273170				



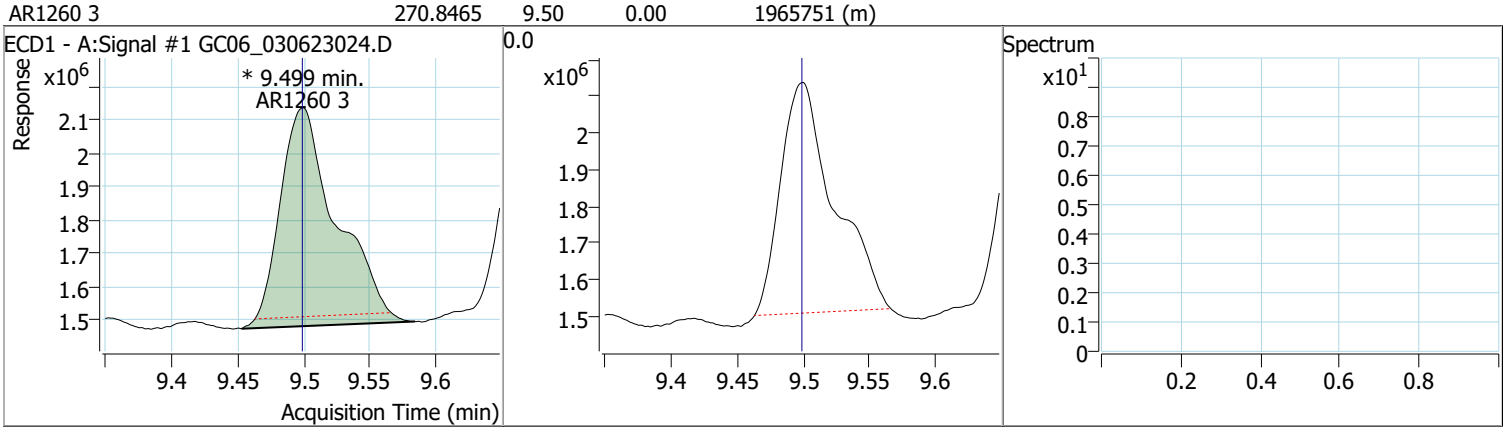
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	260.0553	8.52	0.00	1288744				



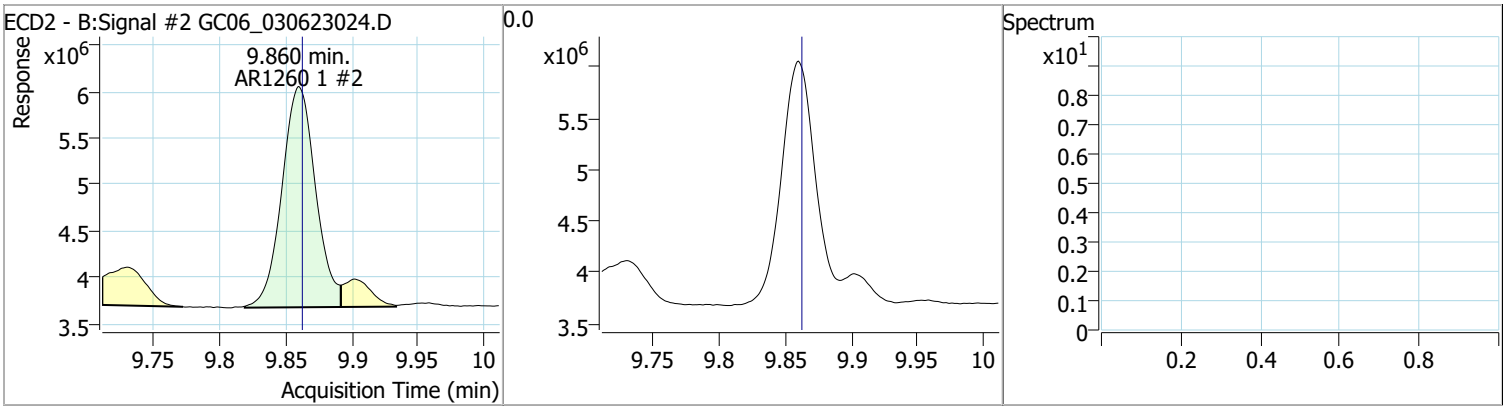
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	277.4408	9.04	0.00	1843505				



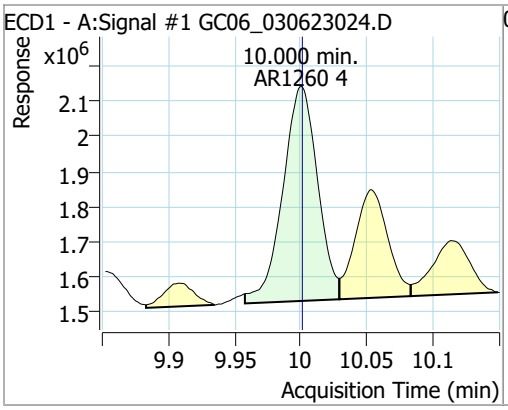
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	270.8465	9.50	0.00	1965751 (m)				

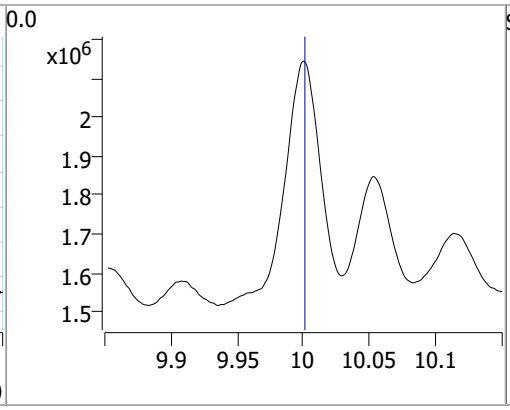


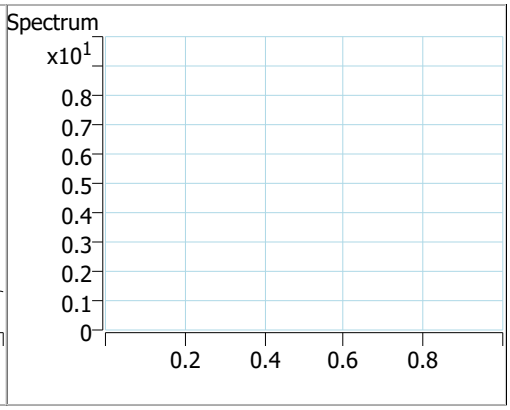
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	269.3948	9.86	0.00	4207408				



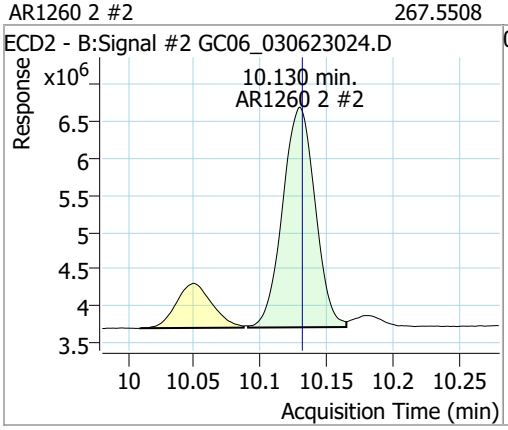
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	265.4880	10.00	0.00	1133516				

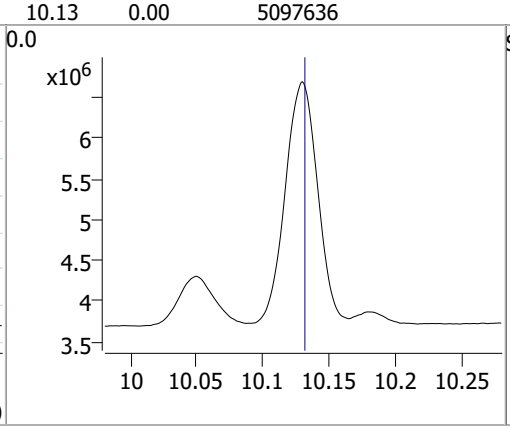


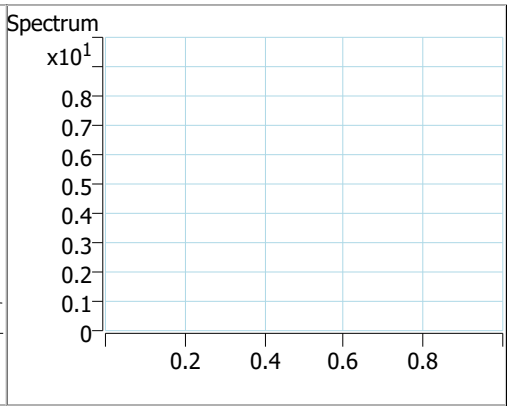




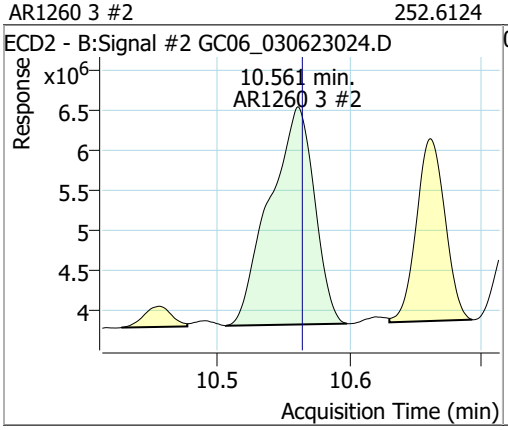
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	267.5508	10.13	0.00	5097636				

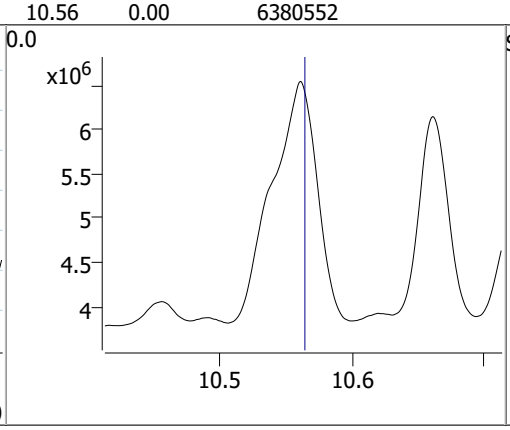


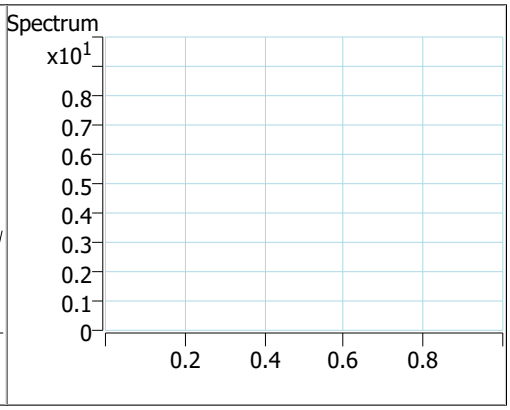




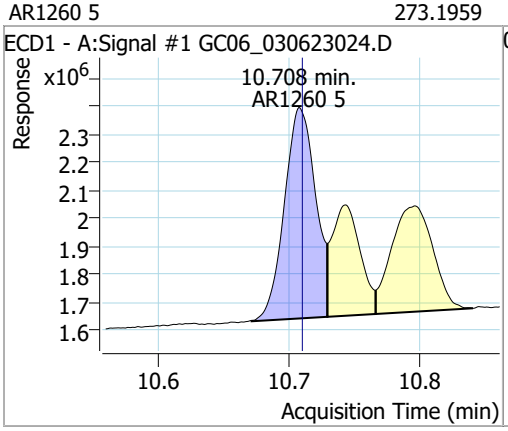
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	252.6124	10.56	0.00	6380552				

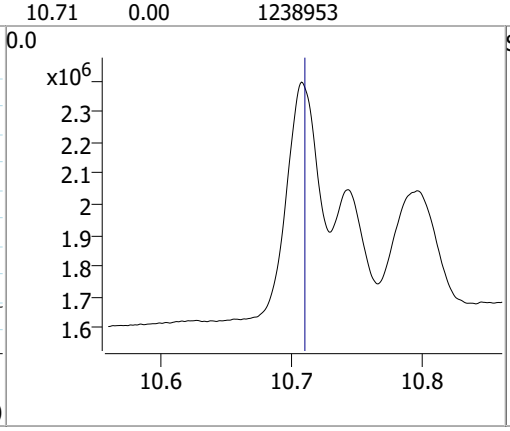


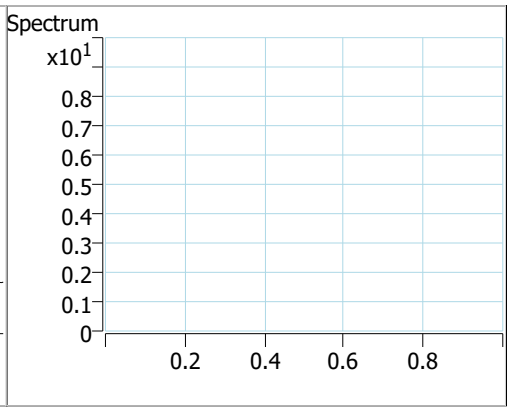




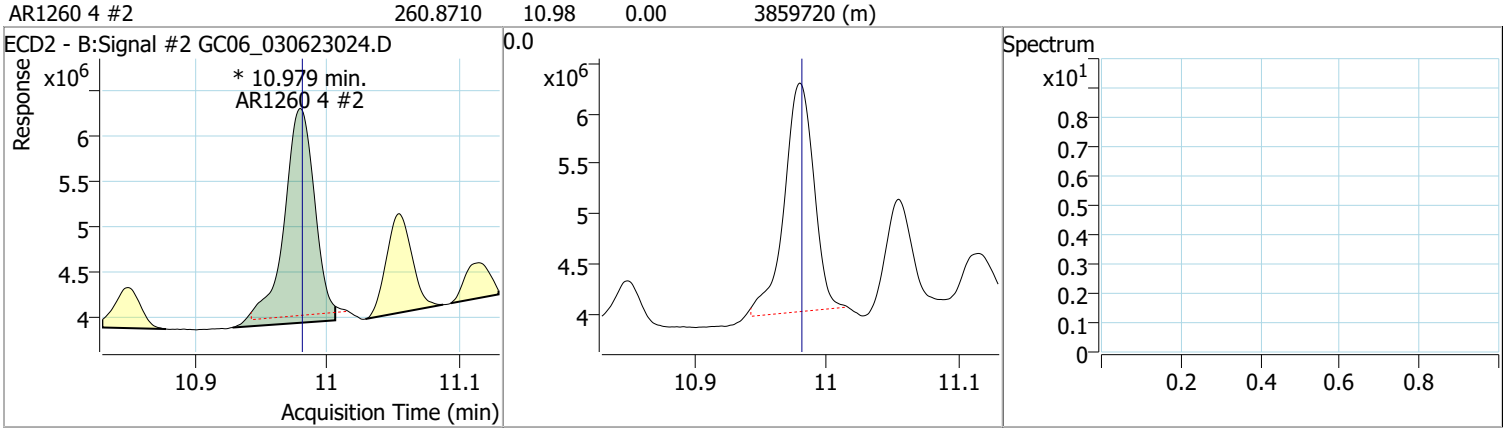
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	273.1959	10.71	0.00	1238953				



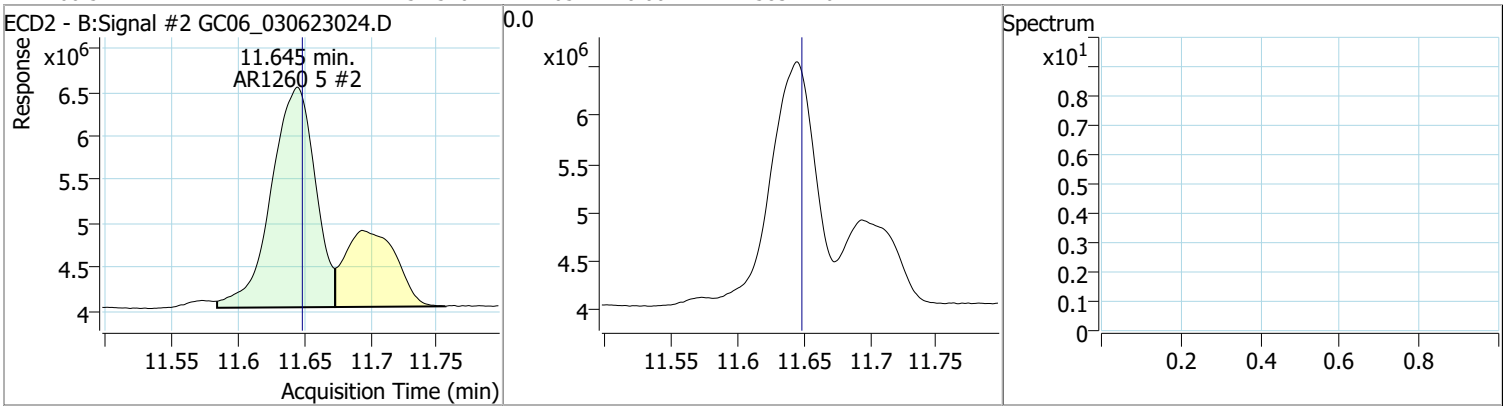




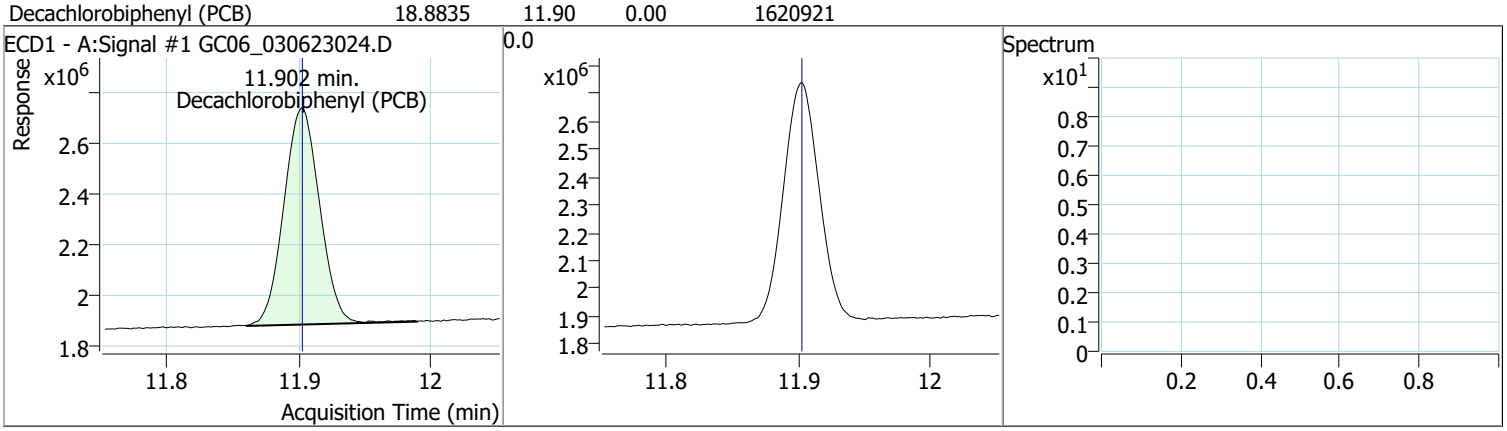
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	260.8710	10.98	0.00	3859720 (m)				



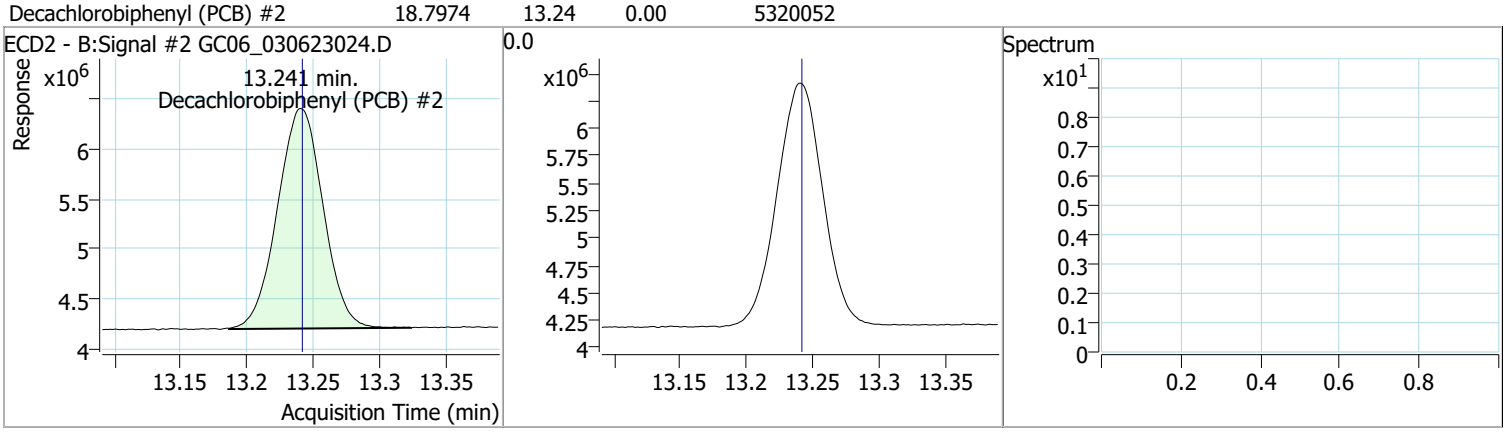
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	257.5404	11.65	0.00	5832726				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	18.8835	11.90	0.00	1620921				

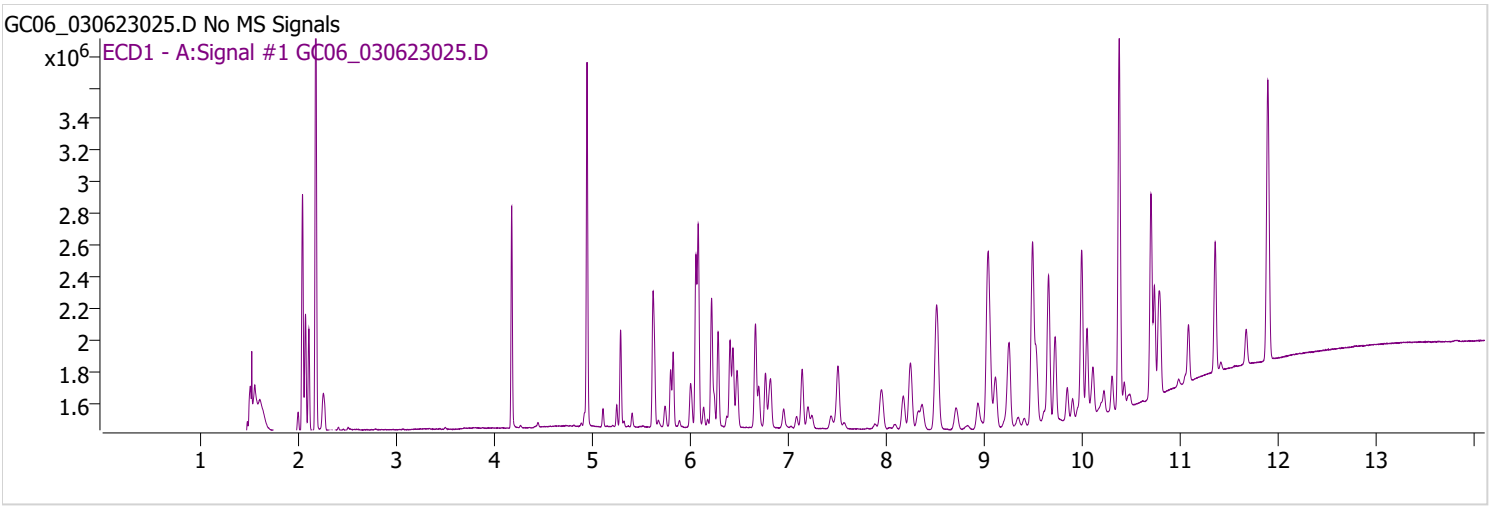


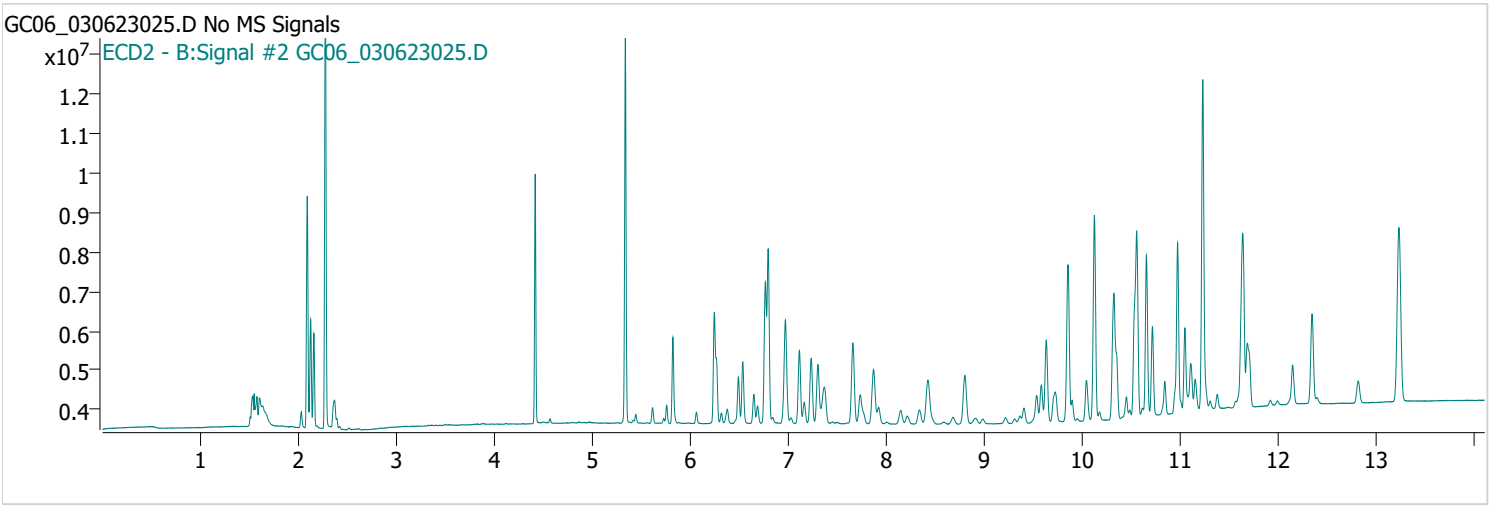
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	18.7974	13.24	0.00	5320052				



Quantitation Results Report (Not Reviewed)

Data File	GC06_030623025.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/6/2023 7:43:31 PM
Sample Name	ICAL, S17801	Instrument	SVOA-GC06
Vial	16	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	030623PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



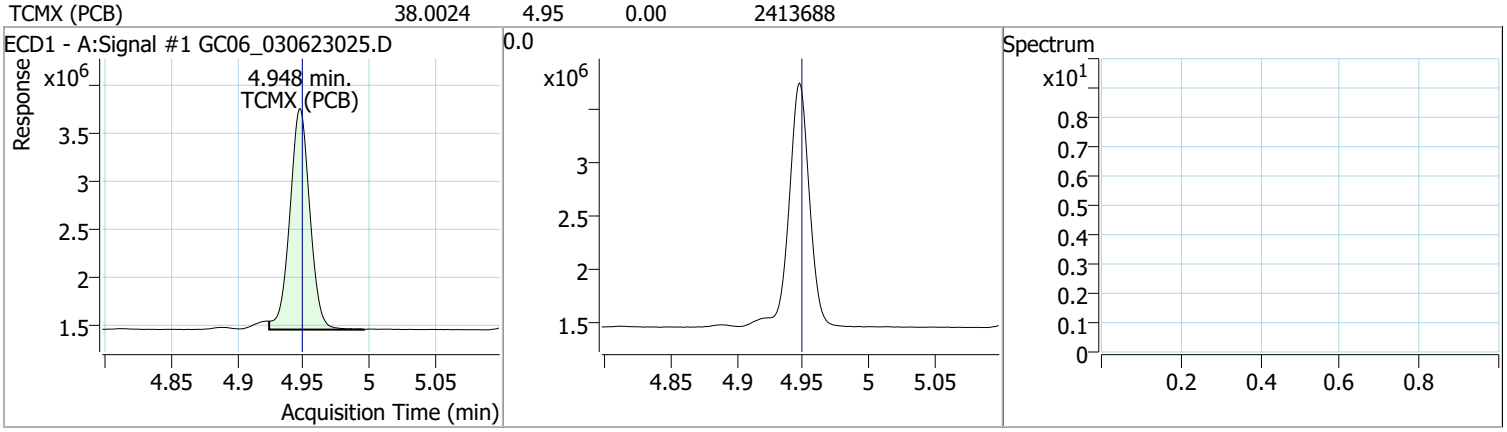


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.178	0.0	1369346.869	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	5587229.192	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.948	0.0	2413688.031	38.0024	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 190.01%		*	
S TCMX (PCB) #2	5.338	0.0	10045833.025	37.4388	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 187.19%		*	
S Decachlorobiphenyl (PCB)	11.900	0.0	3367879.520	41.3541	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 206.77%		*	
S Decachlorobiphenyl (PCB) #2	13.239	0.0	11305313.435	42.0560	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 210.28%		*	
Target Compounds							QValue

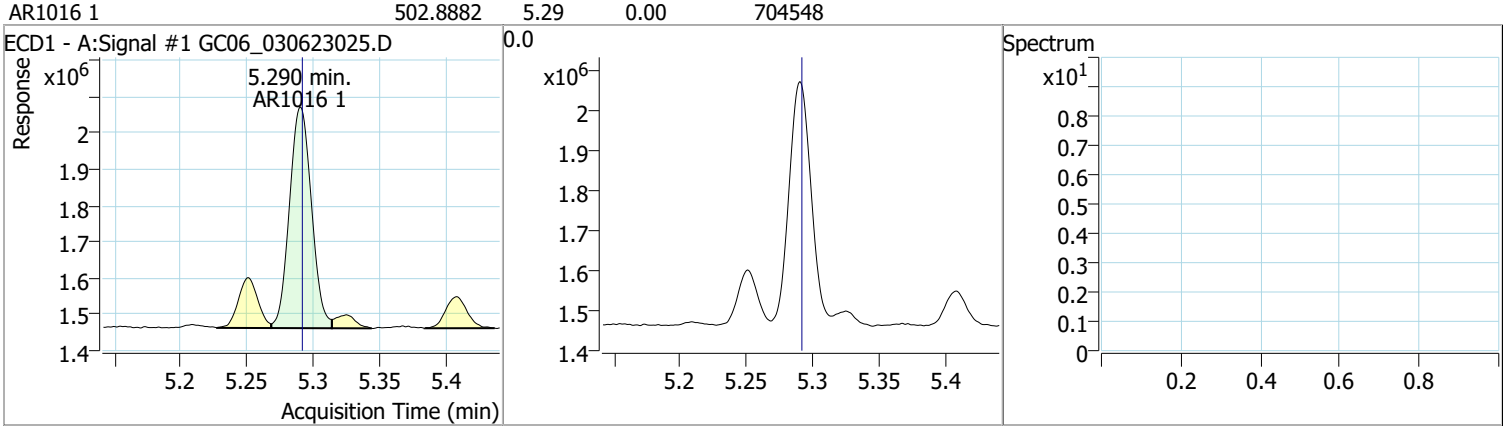
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.290	0.0	704548.326	502.8882	ng/ml		100
T AR1016 2	5.623	0.0	1476833.949	522.4766	ng/ml		100
T AR1016 1 #2	5.824	0.0	2693771.439	506.3005	ng/ml		100
T AR1016 3	6.083	0.0	1788495.236	509.1704	ng/ml		100
T AR1016 4	6.219	0.0	1361346.129	497.4939	ng/ml		100
T AR1016 2 #2	6.248	0.0	5729811.189	486.5287	ng/ml		100
T AR1016 5	6.408	0.0	803339.465	515.6242	ng/ml	m	100
T AR1016 3 #2	6.798	0.0	6867001.767	477.7766	ng/ml		100
T AR1016 4 #2	6.973	0.0	5121115.014	482.4080	ng/ml		100
T AR1016 5 #2	7.663	0.0	4138187.356	479.4623	ng/ml		100
T AR1260 1	8.518	0.0	2169766.211	484.8765	ng/ml		100
T AR1260 2	9.045	0.0	3148003.614	499.3461	ng/ml		100
T AR1260 3	9.498	0.0	3344442.555	485.6893	ng/ml		100
T AR1260 1 #2	9.859	0.0	7376622.919	497.2726	ng/ml		100
T AR1260 4	9.999	0.0	1960912.038	484.0782	ng/ml		100
T AR1260 2 #2	10.129	0.0	8856364.670	489.3904	ng/ml		100
T AR1260 3 #2	10.560	0.0	11328517.686	472.2065	ng/ml		100
T AR1260 5	10.707	0.0	2160569.721	502.1436	ng/ml		100
T AR1260 4 #2	10.978	0.0	6908340.873	491.5937	ng/ml	m	100
T AR1260 5 #2	11.643	0.0	10541269.047	490.0372	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

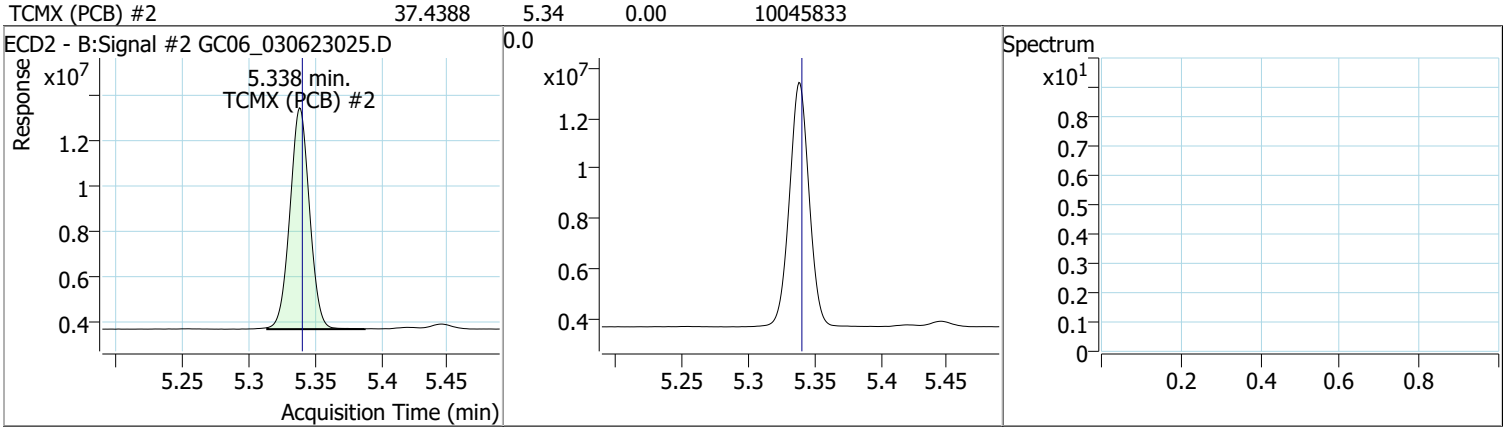
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	38.0024	4.95	0.00	2413688				



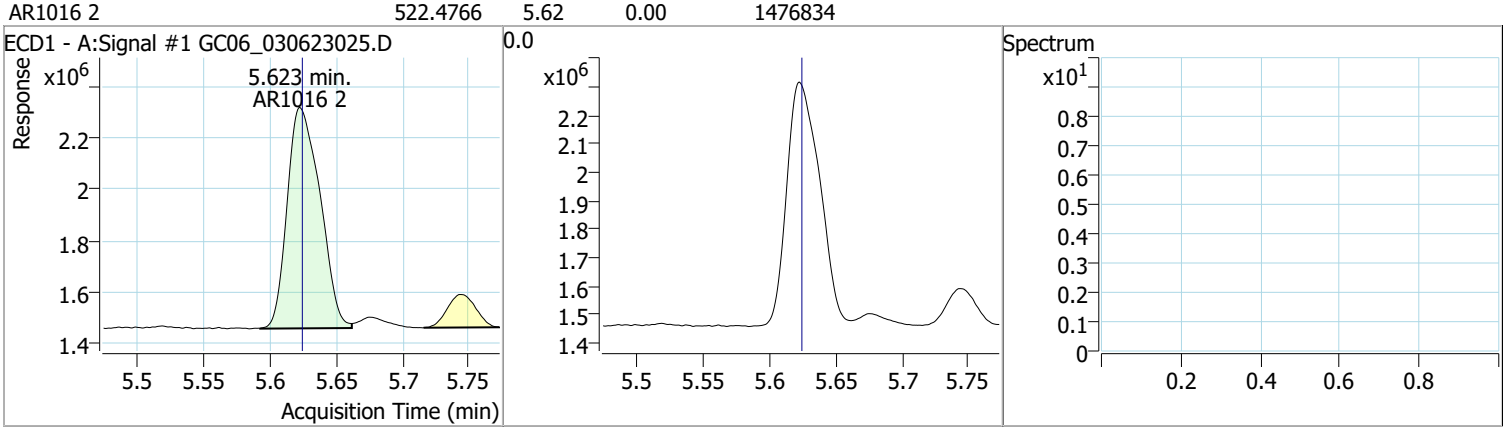
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	502.8882	5.29	0.00	704548				



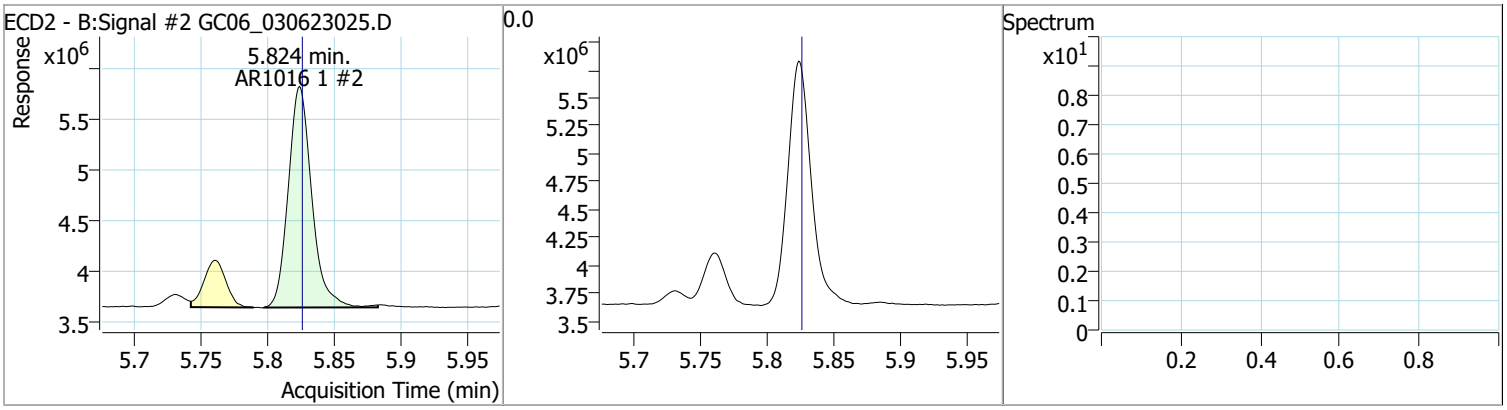
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	37.4388	5.34	0.00	10045833				



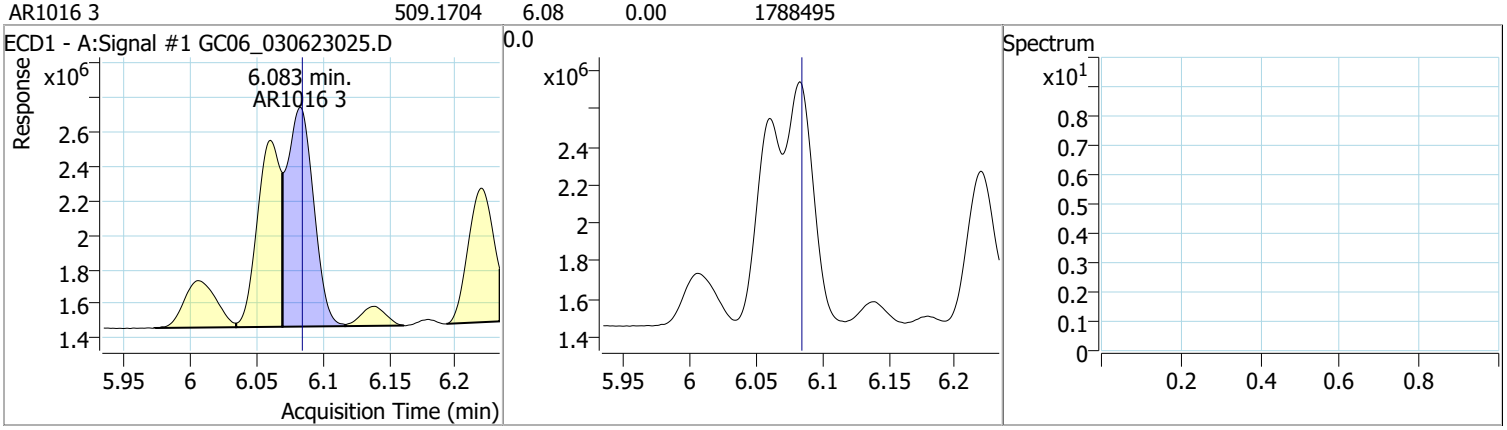
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	522.4766	5.62	0.00	1476834				



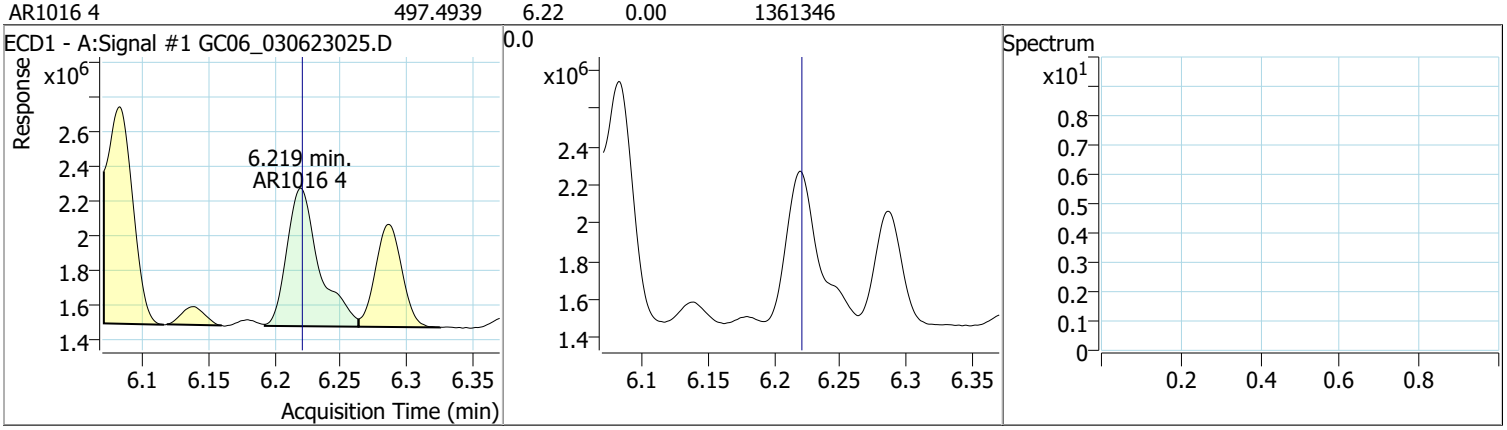
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	506.3005	5.82	0.00	2693771				



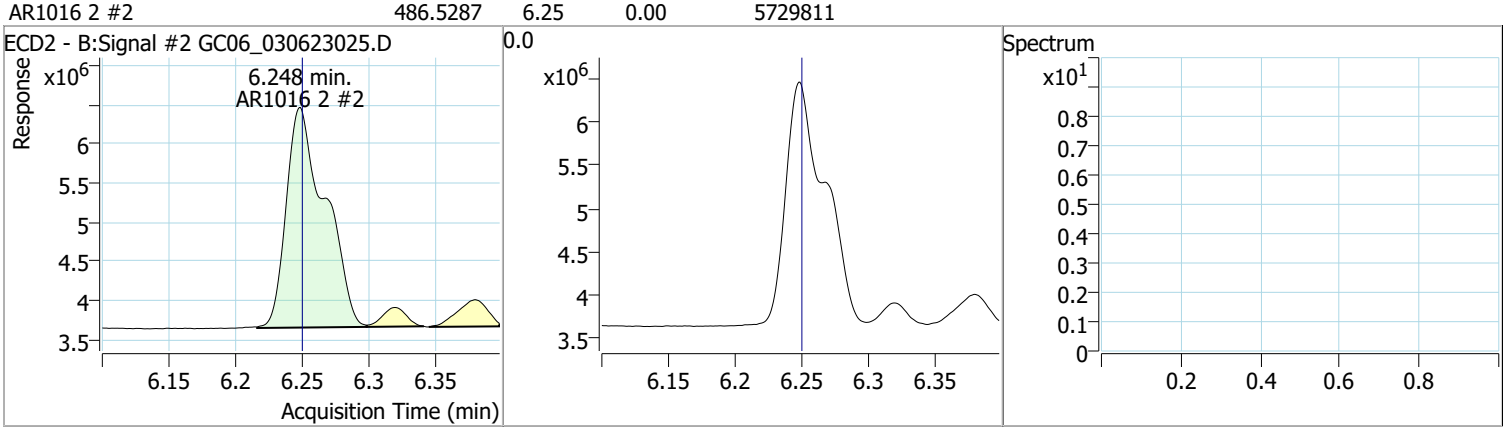
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	509.1704	6.08	0.00	1788495				



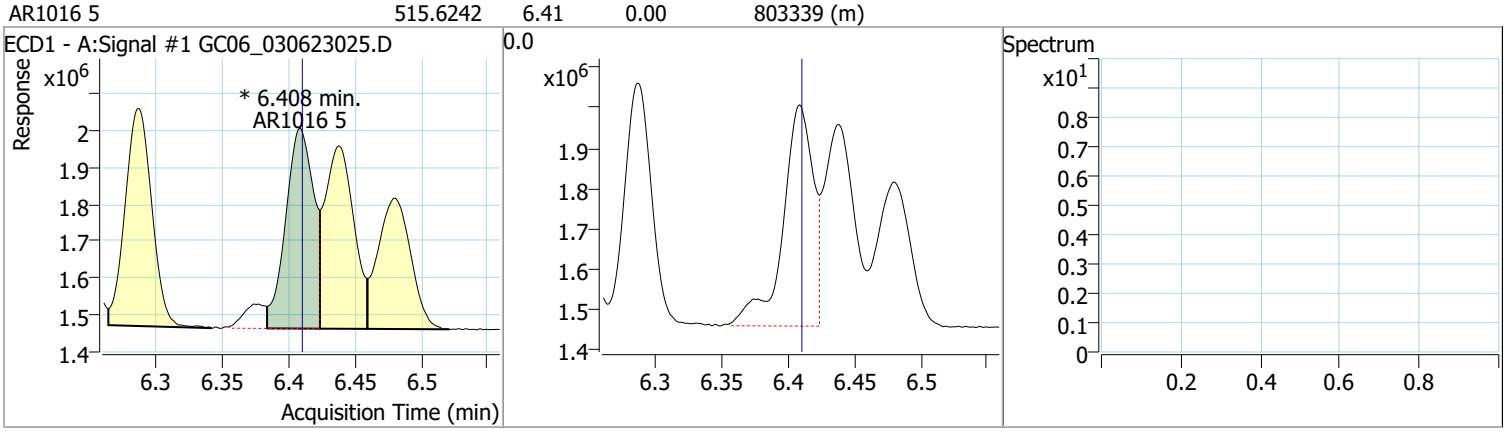
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	497.4939	6.22	0.00	1361346				



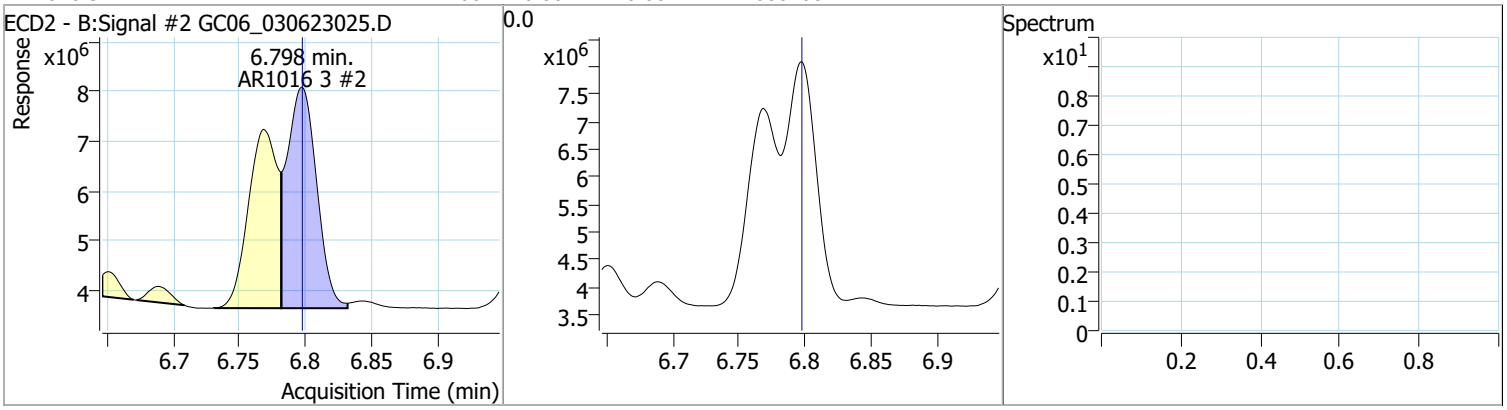
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	486.5287	6.25	0.00	5729811				



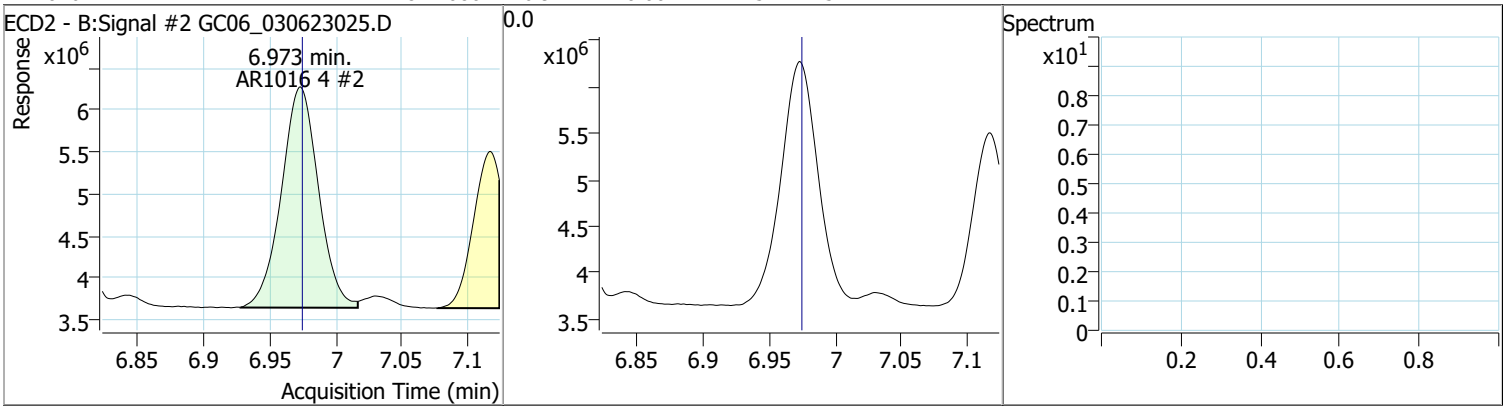
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	515.6242	6.41	0.00	803339 (m)				



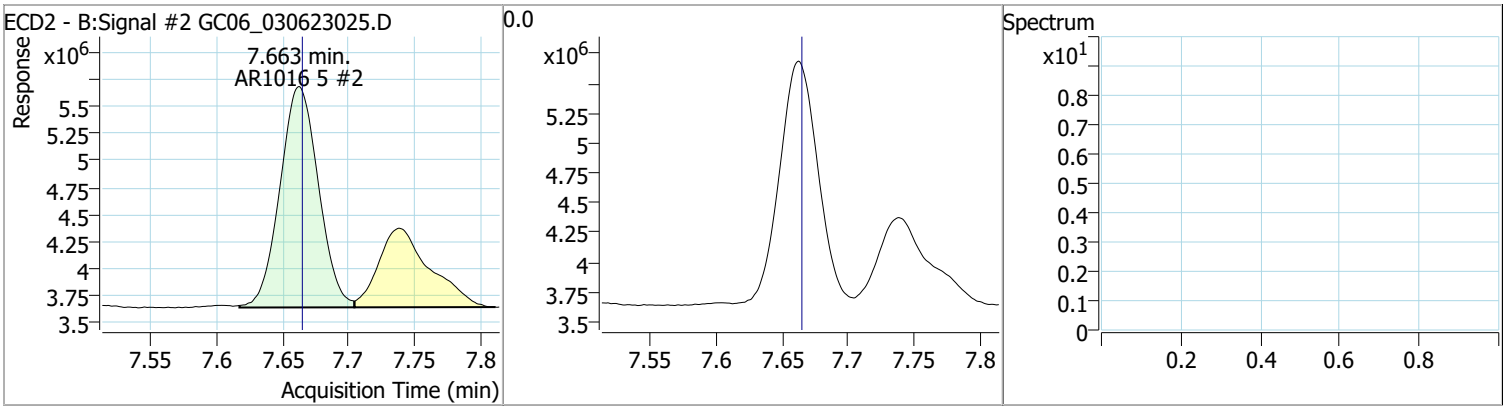
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	477.7766	6.80	0.00	6867002				



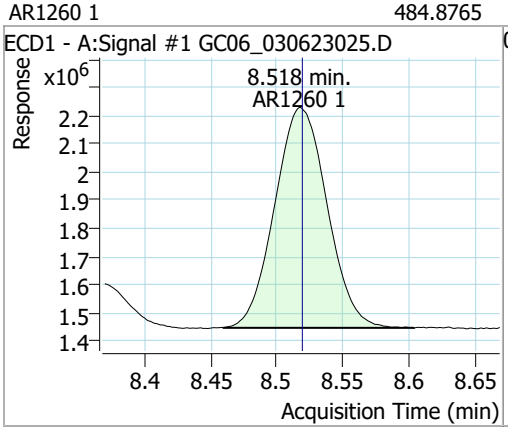
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	482.4080	6.97	0.00	5121115				

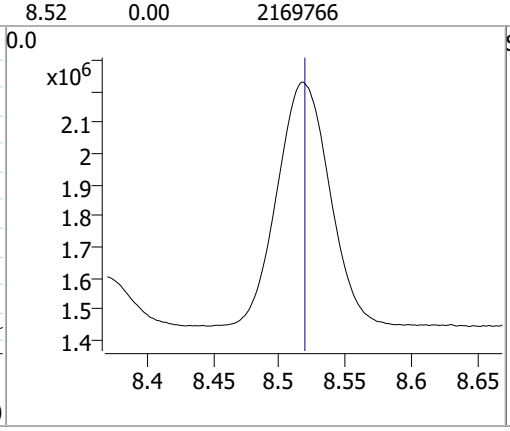


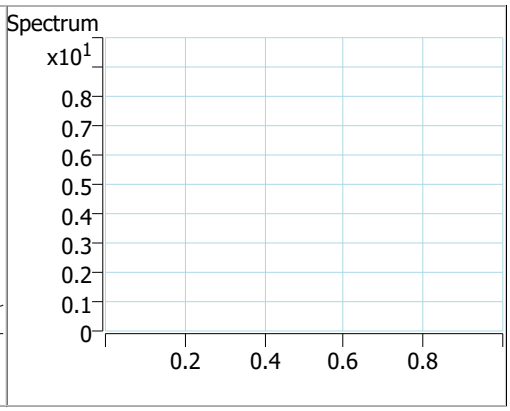
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	479.4623	7.66	0.00	4138187				



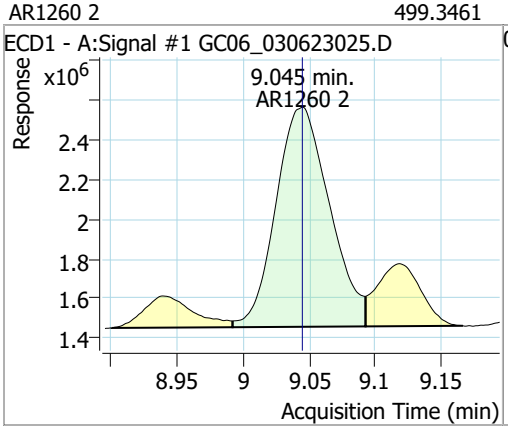
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	484.8765	8.52	0.00	2169766				

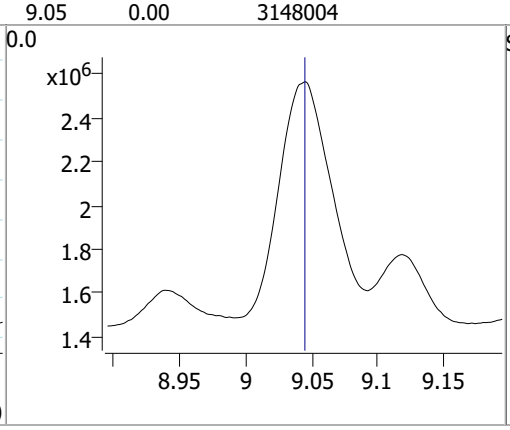


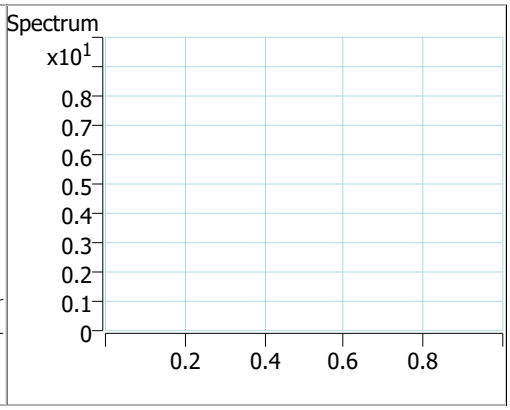




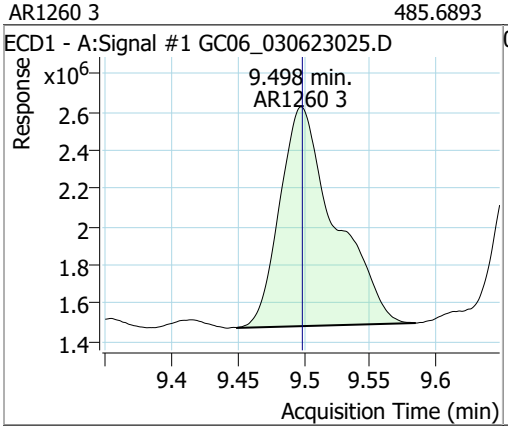
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	499.3461	9.05	0.00	3148004				

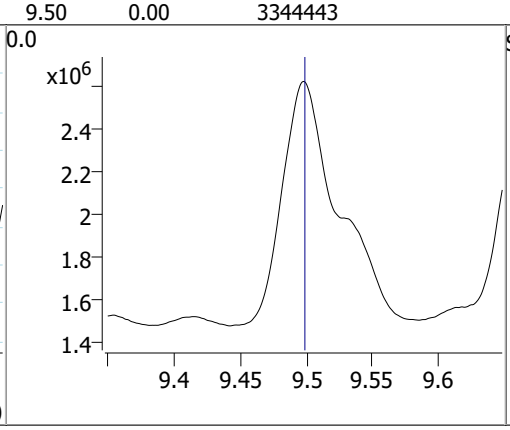


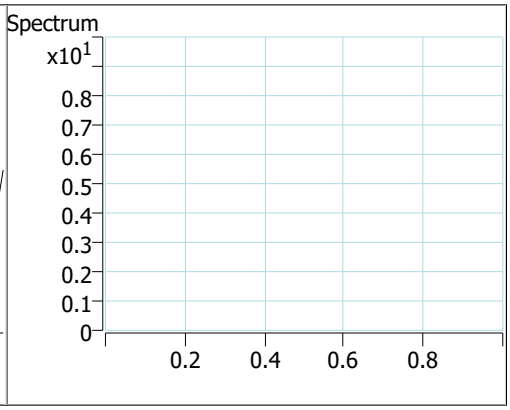




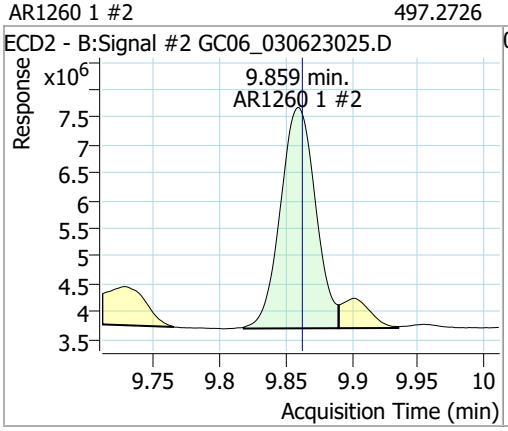
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	485.6893	9.50	0.00	3344443				

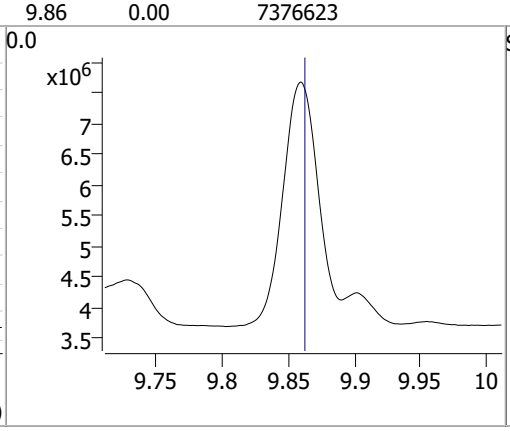


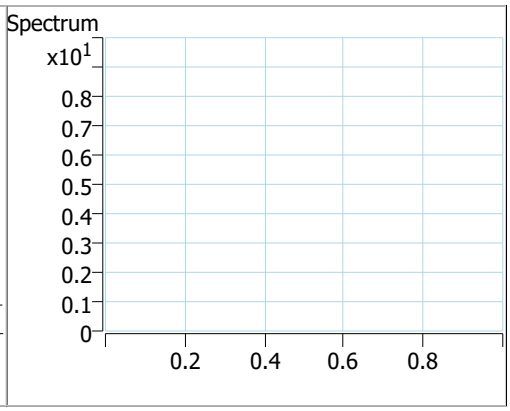




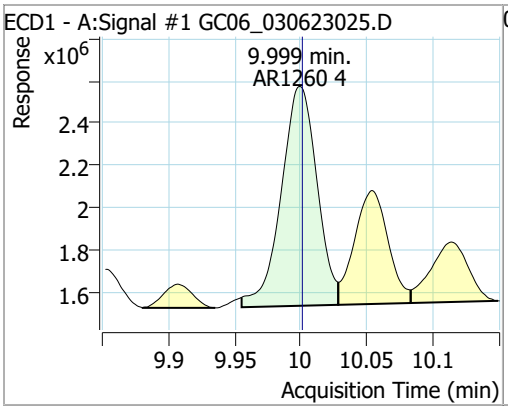
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	497.2726	9.86	0.00	7376623				

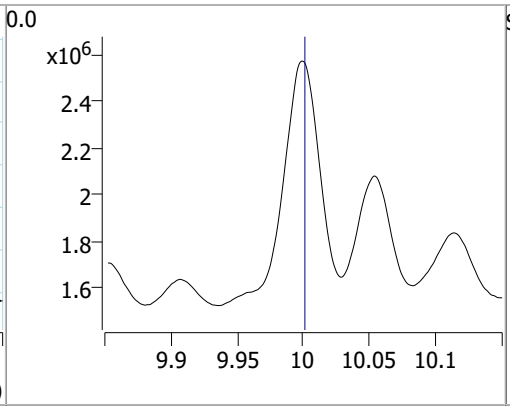


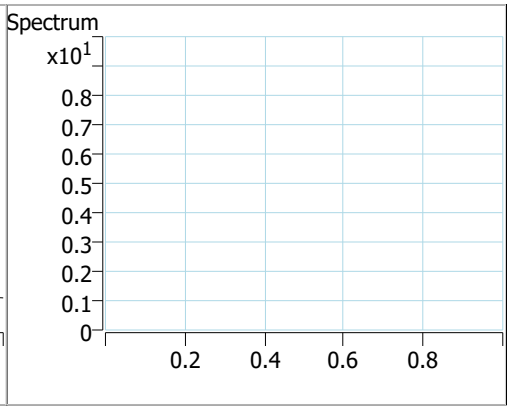




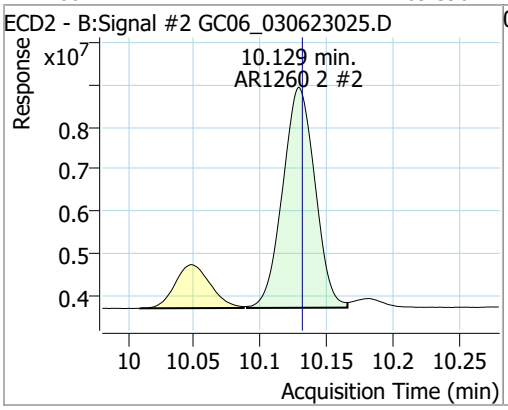
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	484.0782	10.00	0.00	1960912				

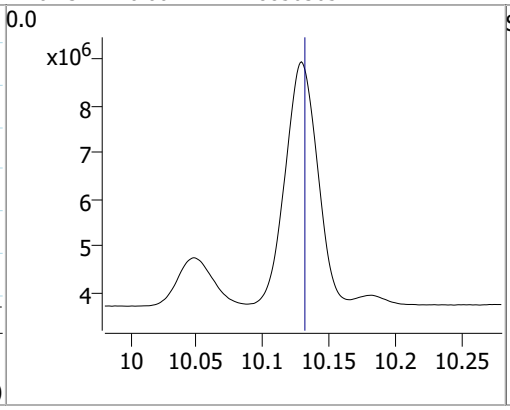


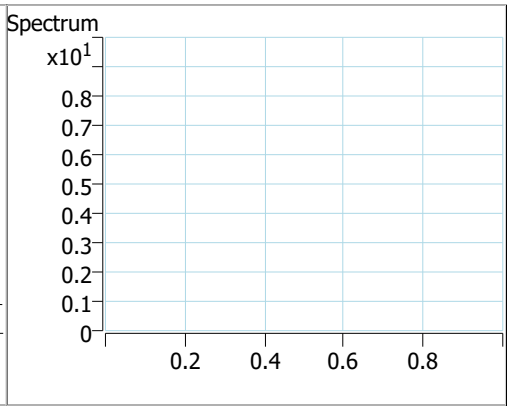




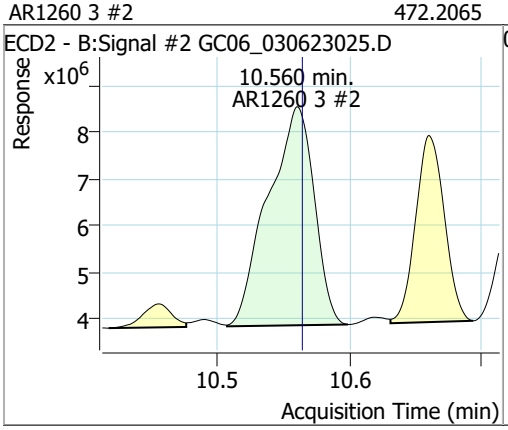
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	489.3904	10.13	0.00	8856365				

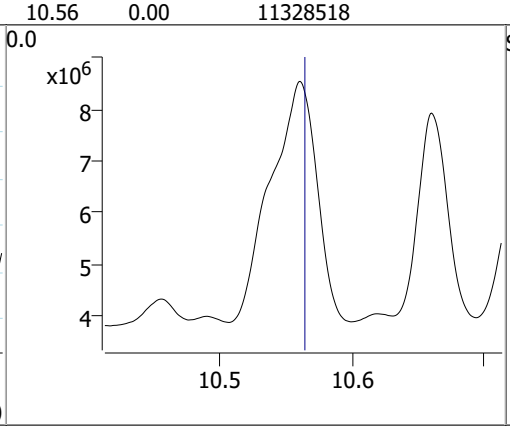


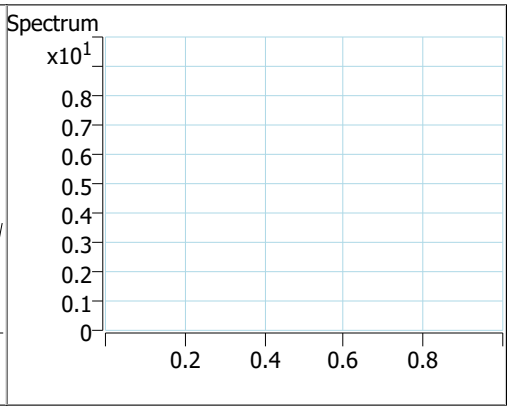




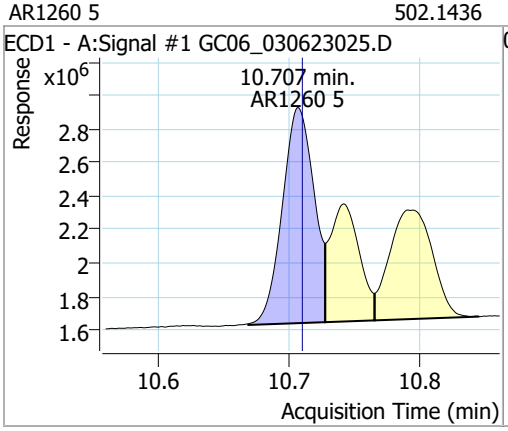
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	472.2065	10.56	0.00	11328518				

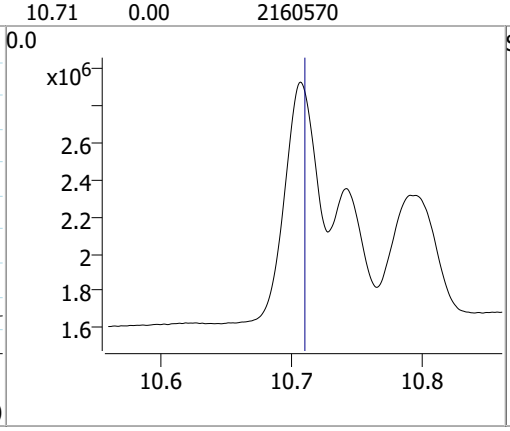


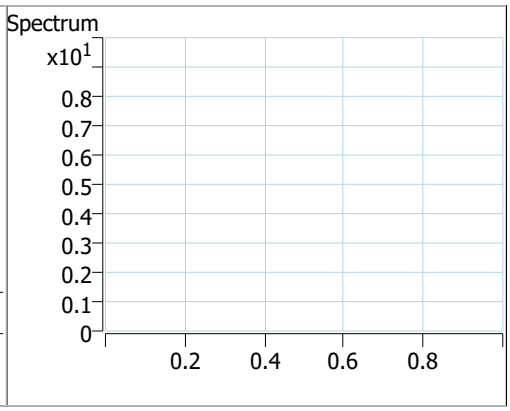




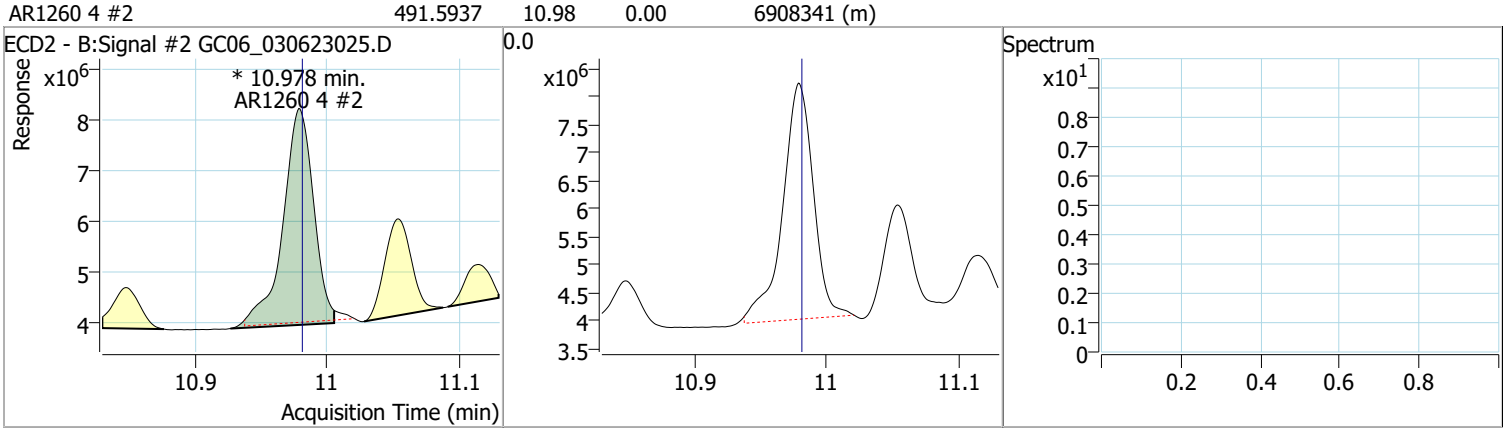
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	502.1436	10.71	0.00	2160570				



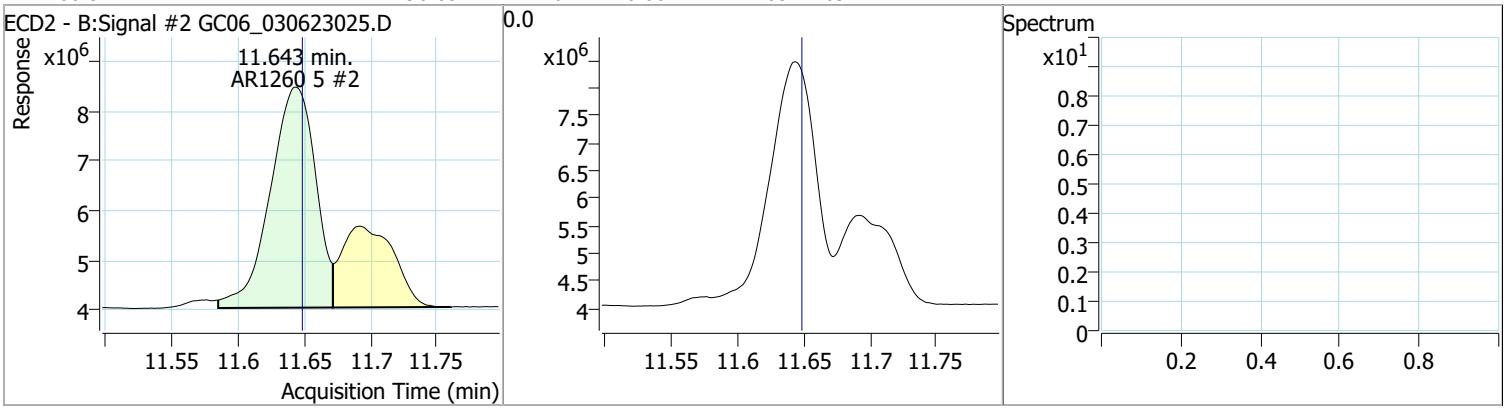




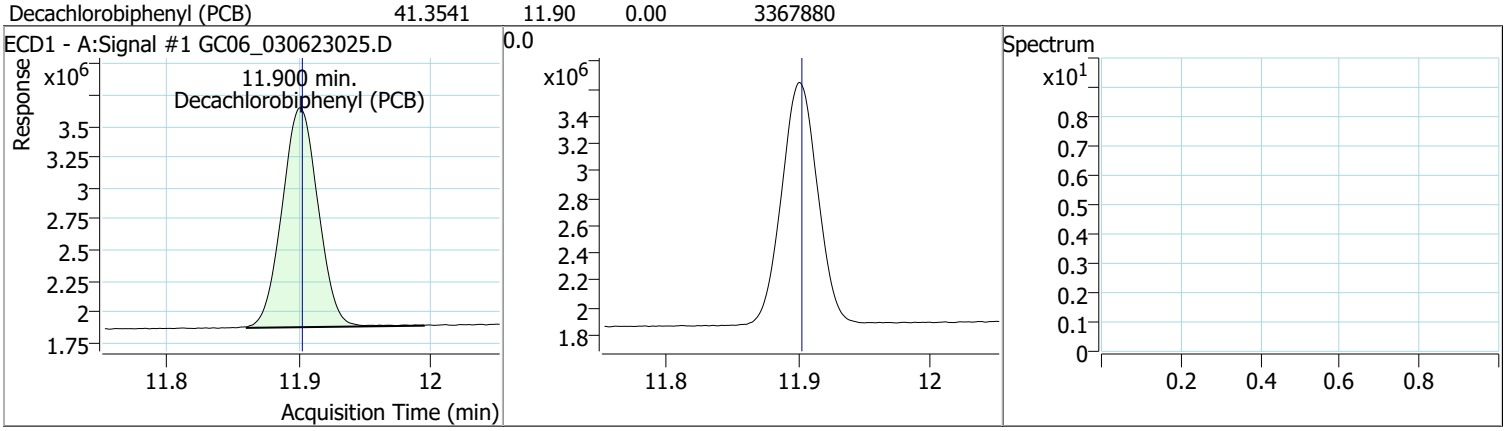
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	491.5937	10.98	0.00	6908341 (m)				



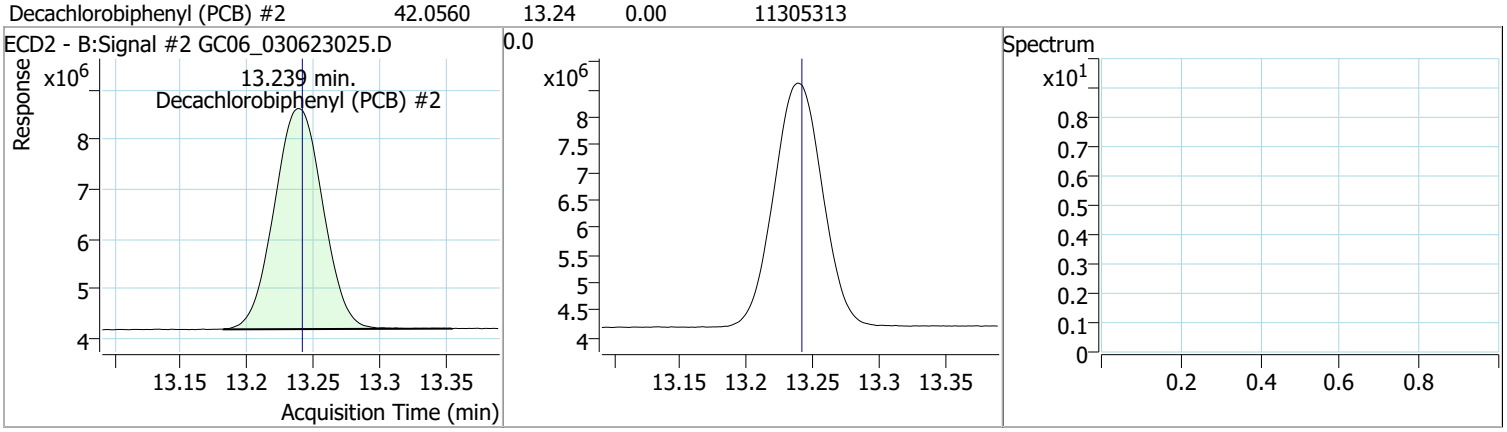
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	490.0372	11.64	0.00	10541269				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	41.3541	11.90	0.00	3367880				

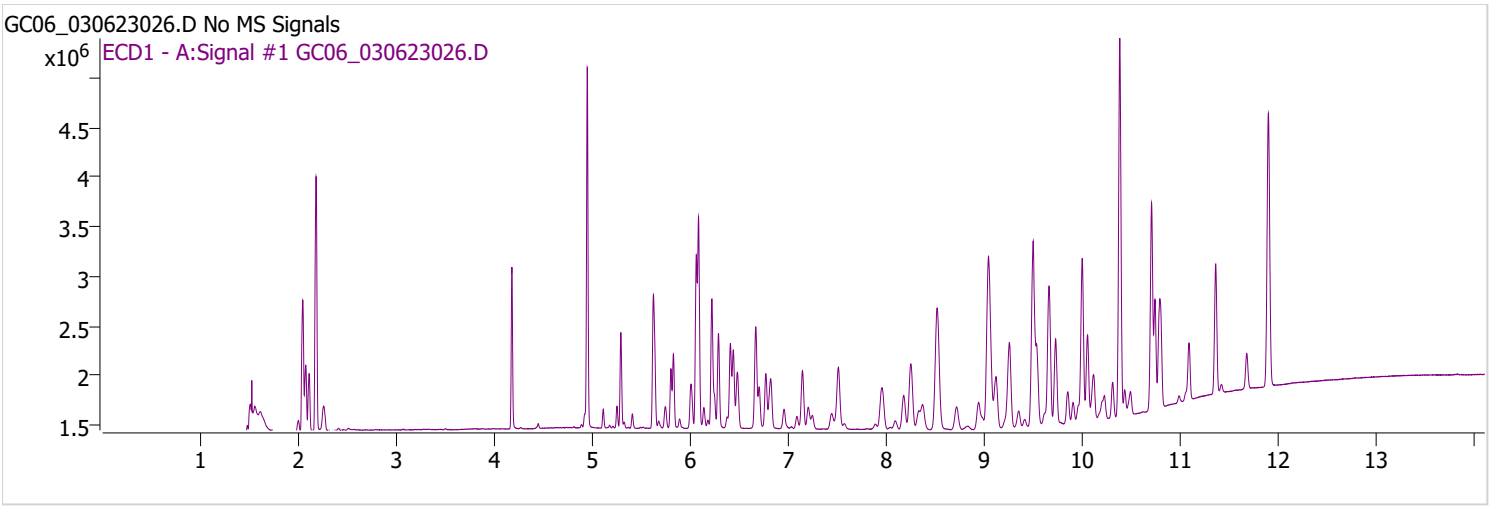


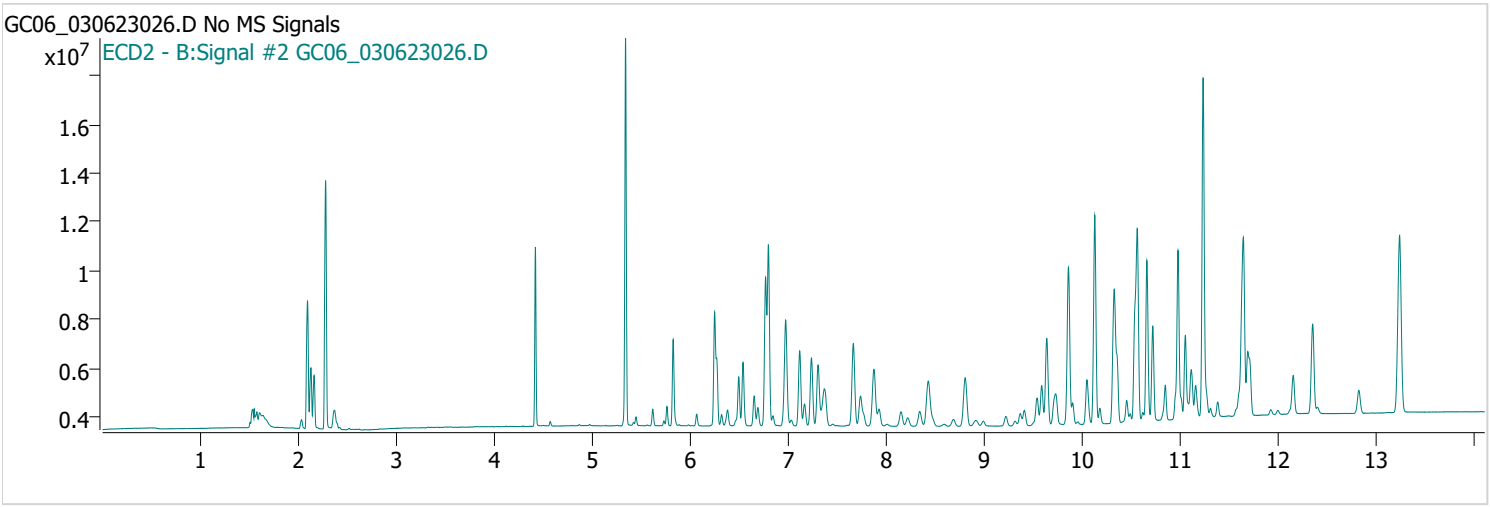
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	42.0560	13.24	0.00	11305313				



Quantitation Results Report (Not Reviewed)

Data File	GC06_030623026.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/6/2023 8:01:51 PM
Sample Name	ICAL, S17802	Instrument	SVOA-GC06
Vial	17	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	030623PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



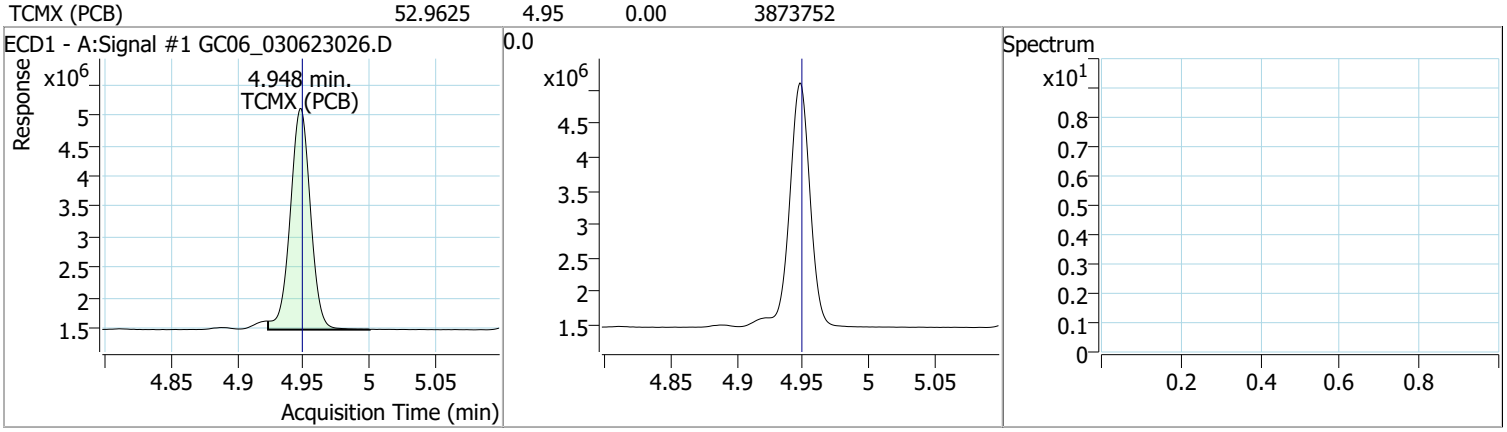


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.178	0.0	1576909.907	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	6521019.552	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.948	0.0	3873752.337	52.9625	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 264.81%		*	
S TCMX (PCB) #2	5.339	0.0	16640145.574	53.1342	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 265.67%		*	
S Decachlorobiphenyl (PCB)	11.901	0.0	5252825.873	56.0094	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 280.05%		*	
S Decachlorobiphenyl (PCB) #2	13.241	0.0	17803598.997	56.7458	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 283.73%		*	
Target Compounds							QValue

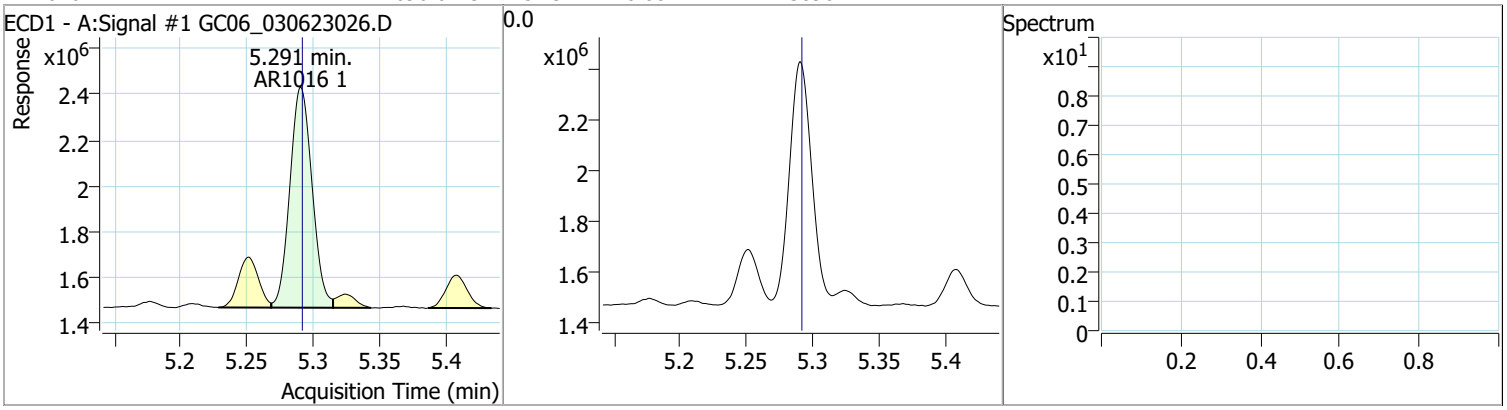
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.291	0.0	1123889.649	696.6119	ng/ml		100
T AR1016 2	5.623	0.0	2319044.383	740.6036	ng/ml		100
T AR1016 1 #2	5.825	0.0	4439182.928	714.8776	ng/ml		100
T AR1016 3	6.083	0.0	2840252.778	729.7290	ng/ml		100
T AR1016 4	6.220	0.0	2169084.852	688.3389	ng/ml		100
T AR1016 2 #2	6.248	0.0	9404062.999	684.1711	ng/ml		100
T AR1016 5	6.409	0.0	1260378.881	702.4929	ng/ml	m	100
T AR1016 3 #2	6.798	0.0	11450053.460	682.5685	ng/ml		100
T AR1016 4 #2	6.973	0.0	8474556.613	683.9871	ng/ml		100
T AR1016 5 #2	7.664	0.0	6823581.584	677.3882	ng/ml		100
T AR1260 1	8.519	0.0	3556511.399	725.7805	ng/ml		100
T AR1260 2	9.044	0.0	4997374.409	688.3589	ng/ml		100
T AR1260 3	9.500	0.0	5408461.236	682.0483	ng/ml		100
T AR1260 1 #2	9.860	0.0	12035088.755	695.1319	ng/ml		100
T AR1260 4	10.001	0.0	3157935.419	676.9666	ng/ml		100
T AR1260 2 #2	10.129	0.0	14335261.754	678.7136	ng/ml		100
T AR1260 3 #2	10.563	0.0	19149073.392	683.8921	ng/ml		100
T AR1260 5	10.708	0.0	3529404.862	712.3078	ng/ml		100
T AR1260 4 #2	10.979	0.0	11288763.373	688.2717	ng/ml	m	100
T AR1260 5 #2	11.646	0.0	18271031.817	727.7467	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

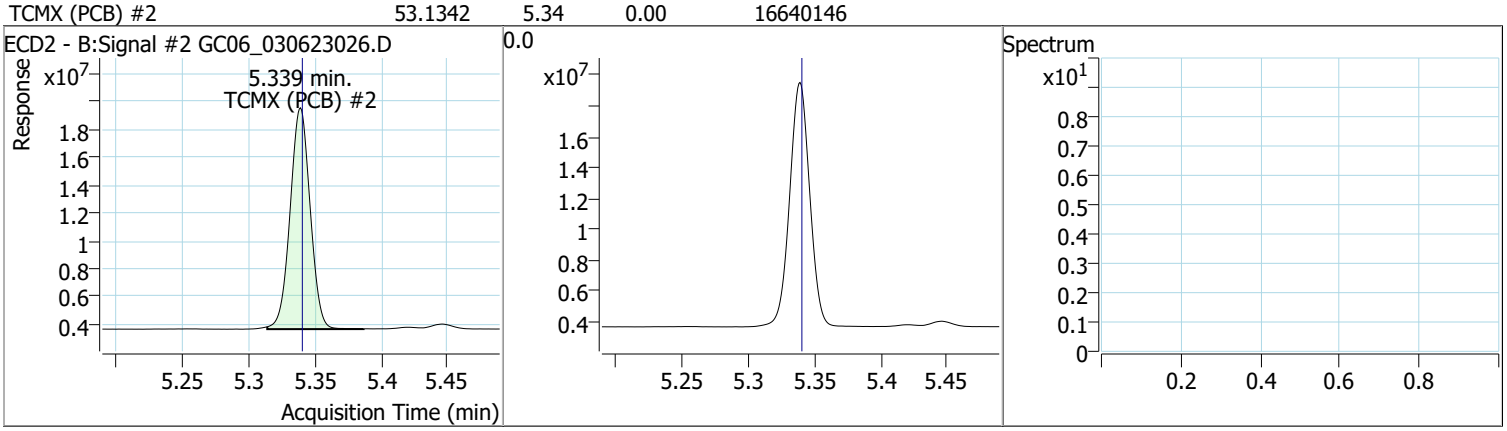
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	52.9625	4.95	0.00	3873752				



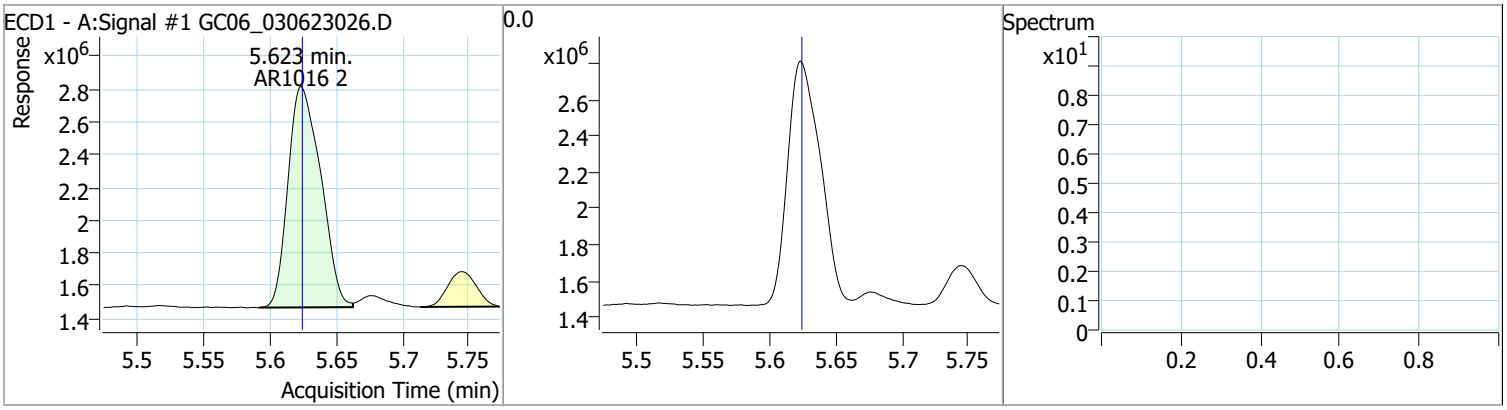
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	696.6119	5.29	0.00	1123890				



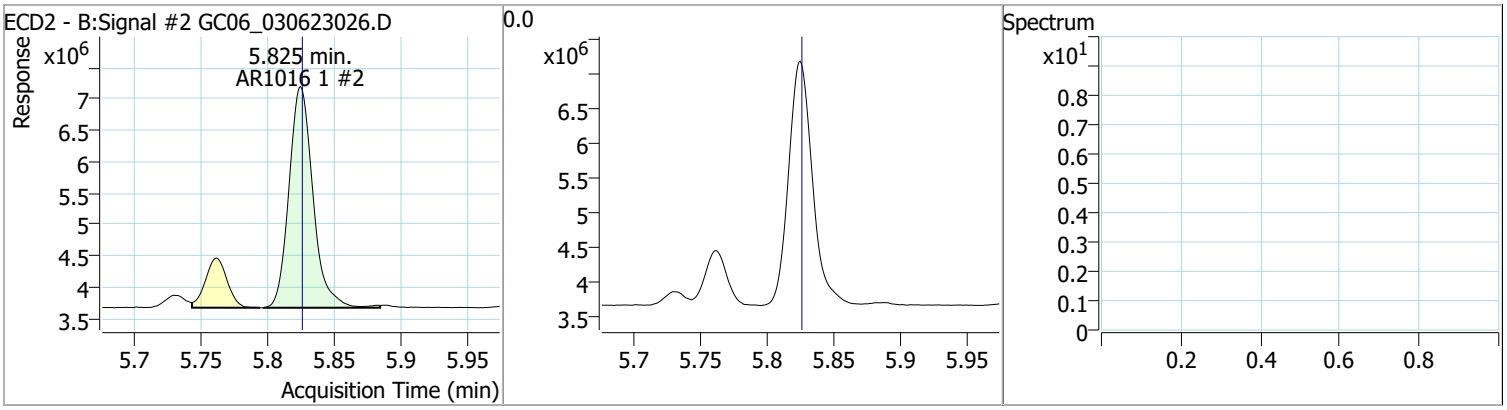
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	53.1342	5.34	0.00	16640146				



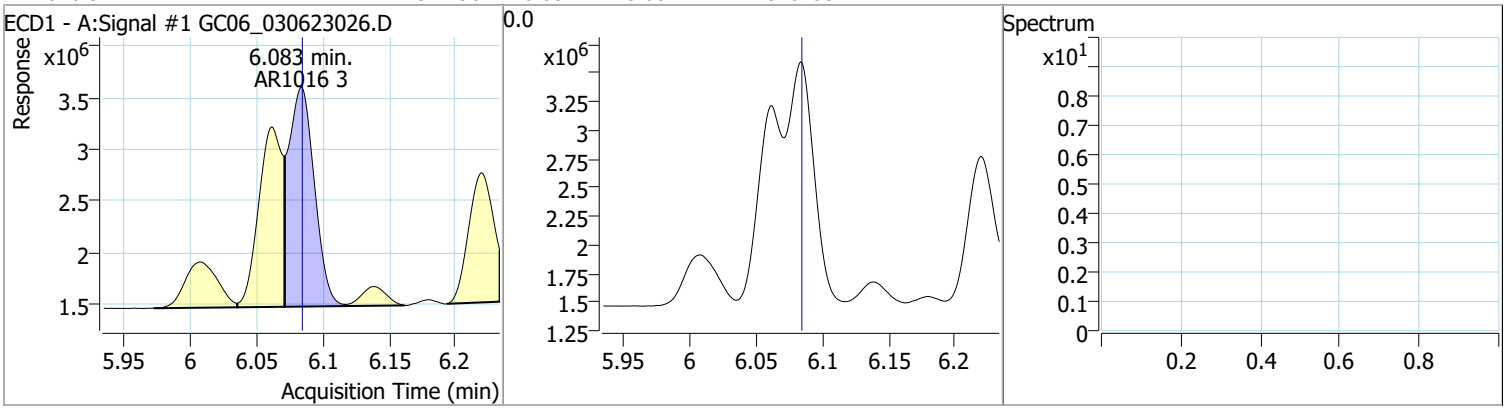
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	740.6036	5.62	0.00	2319044				



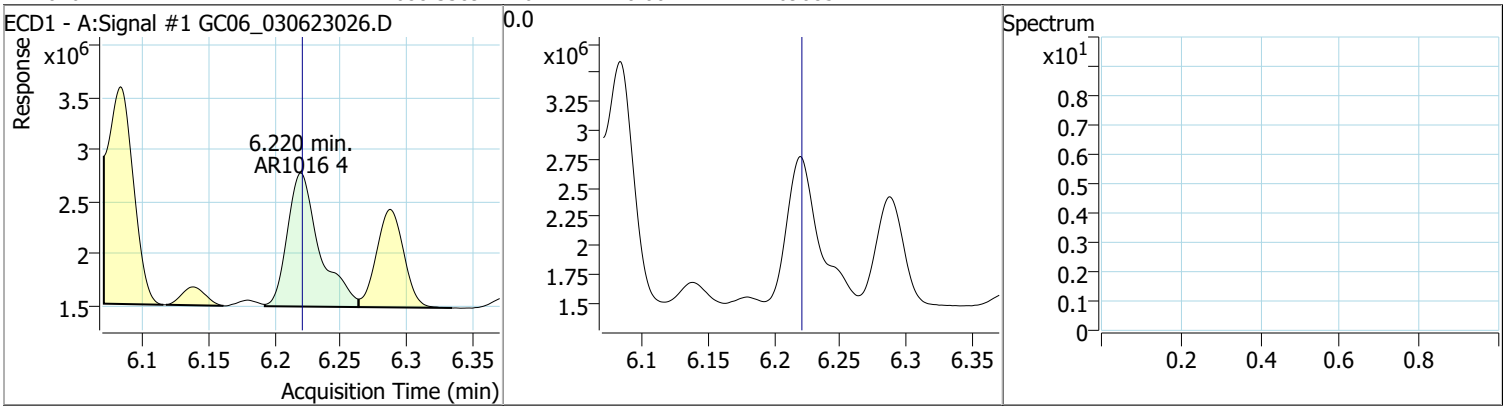
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	714.8776	5.83	0.00	4439183				



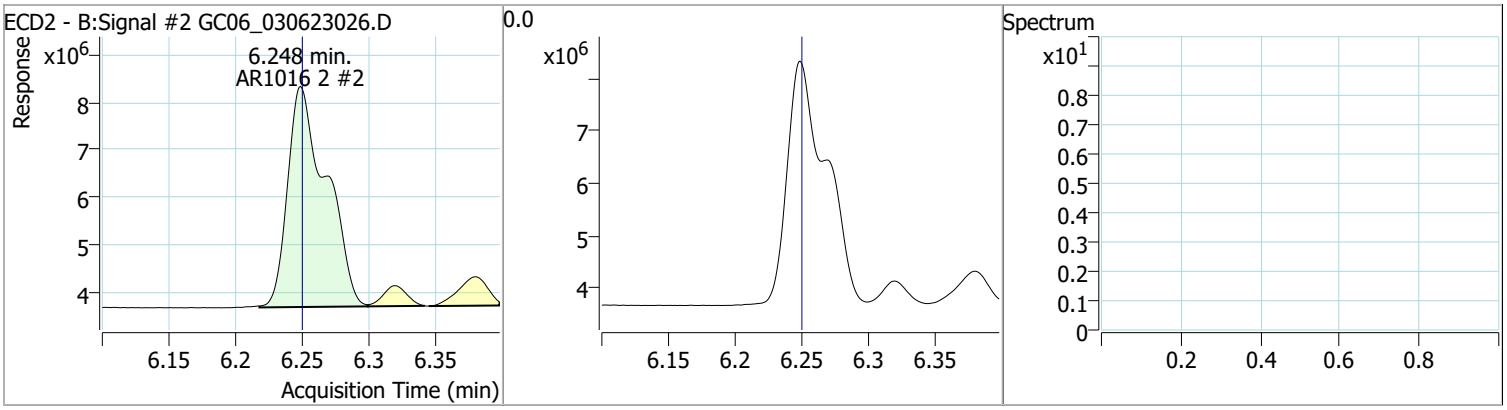
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	729.7290	6.08	0.00	2840253				



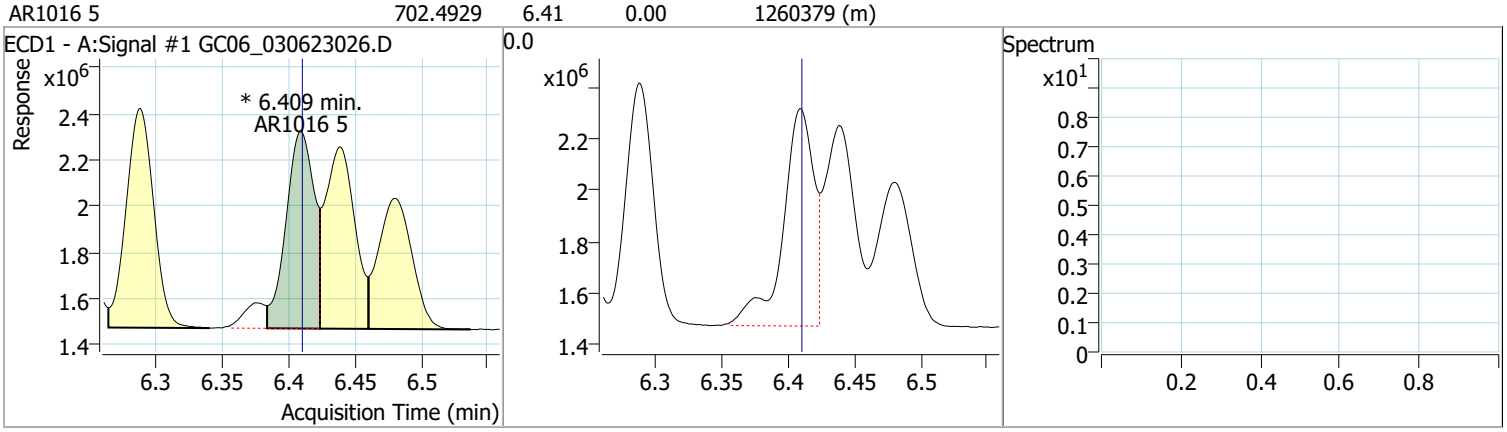
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	688.3389	6.22	0.00	2169085				



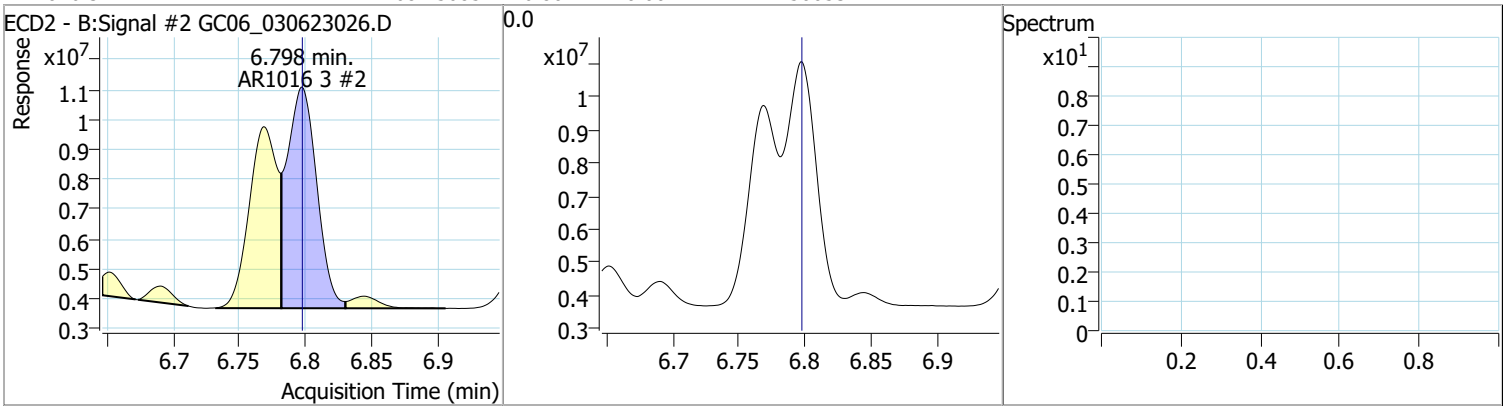
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	684.1711	6.25	0.00	9404063				



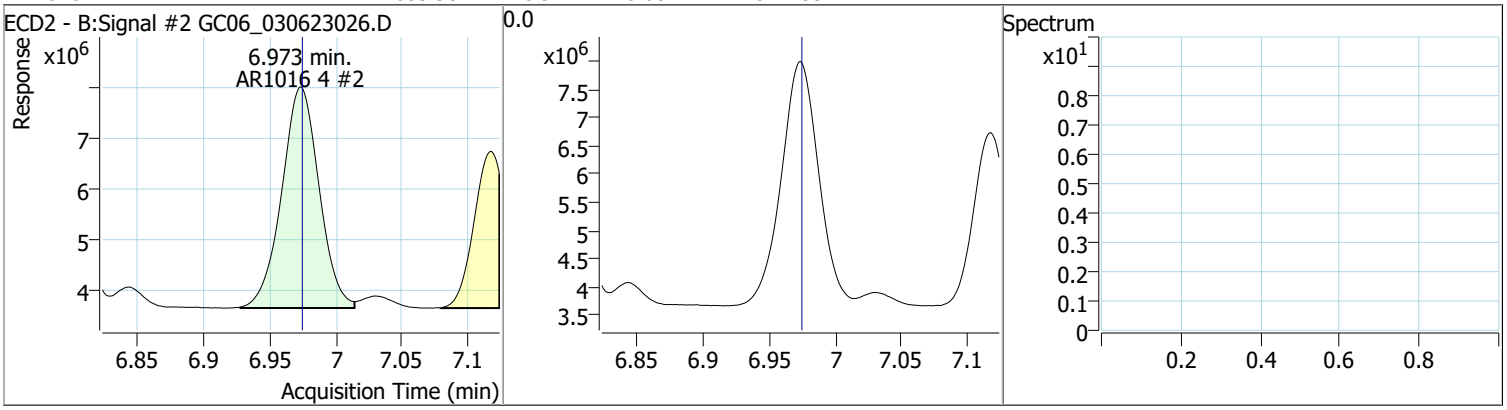
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	702.4929	6.41	0.00	1260379 (m)				



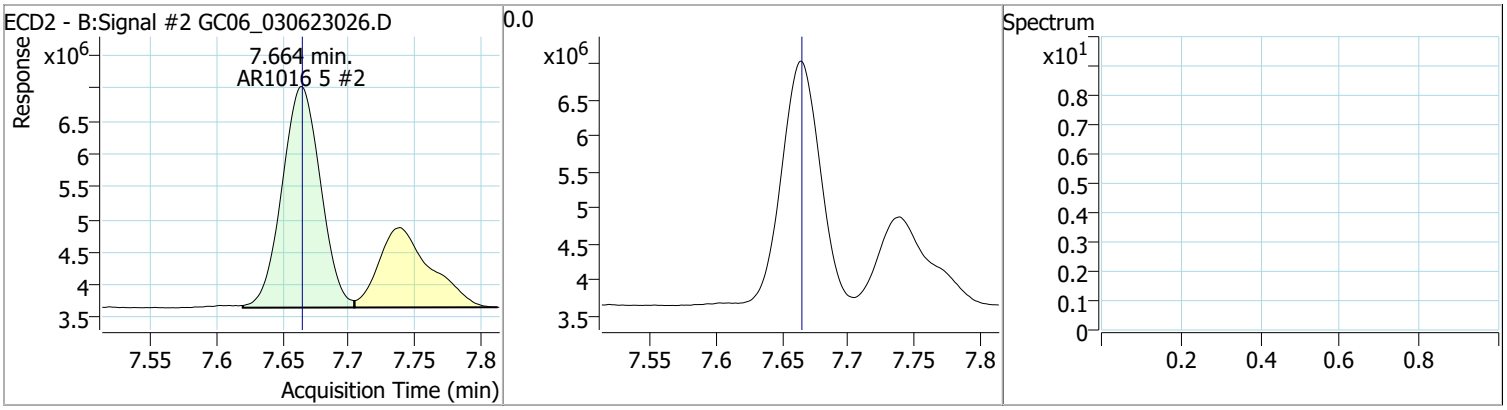
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	682.5685	6.80	0.00	11450053				



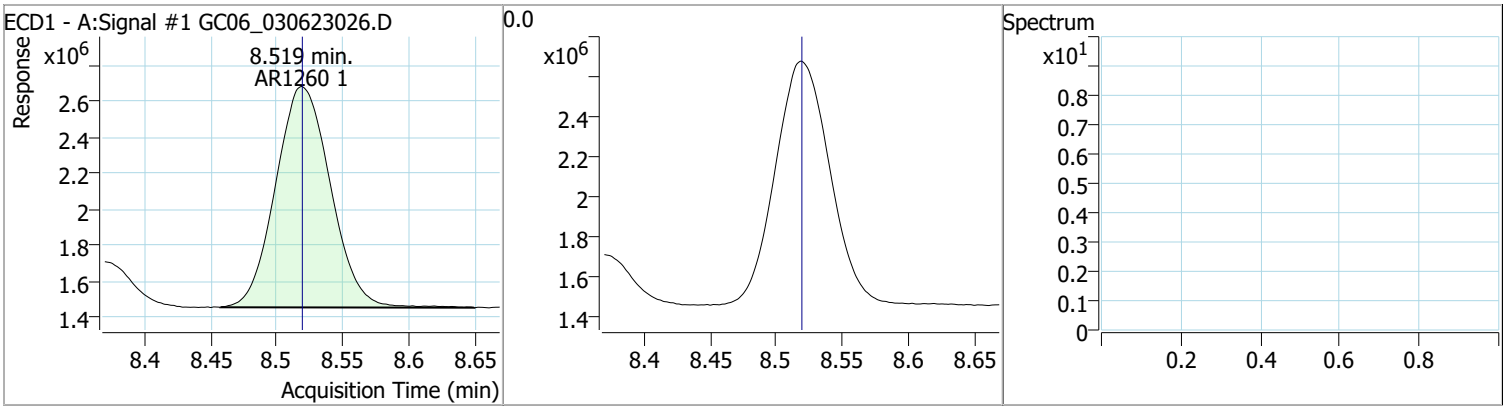
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AR1016 4 #2	683.9871	6.97	0.00	8474557				



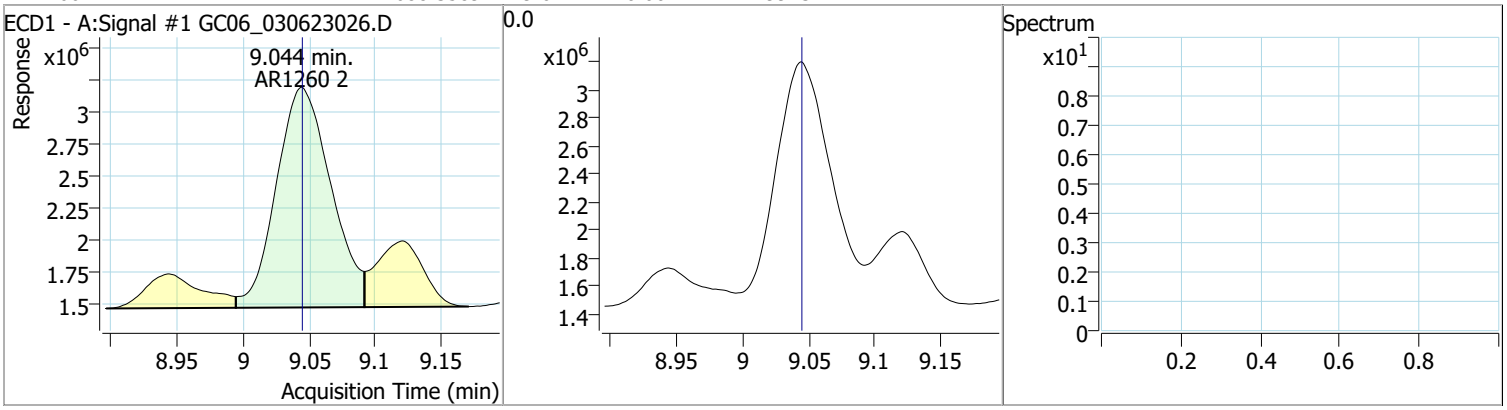
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	677.3882	7.66	0.00	6823582				



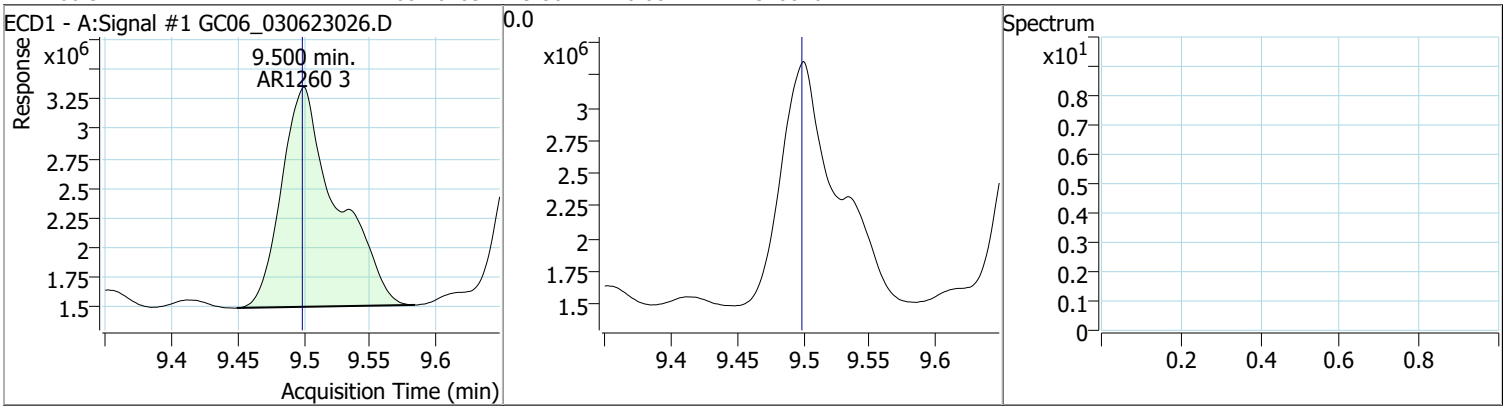
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	725.7805	8.52	0.00	3556511				



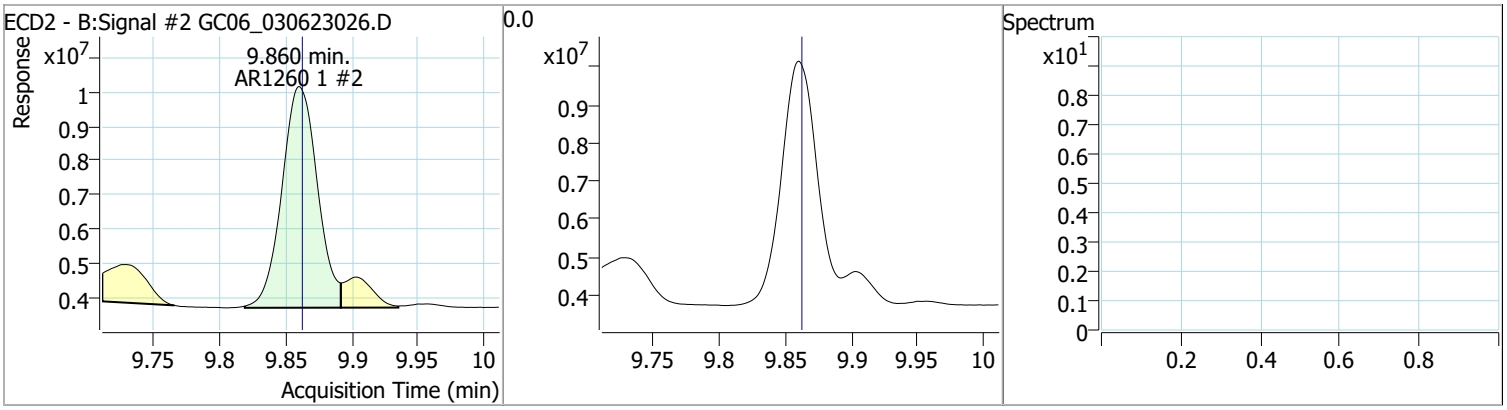
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	688.3589	9.04	0.00	4997374				



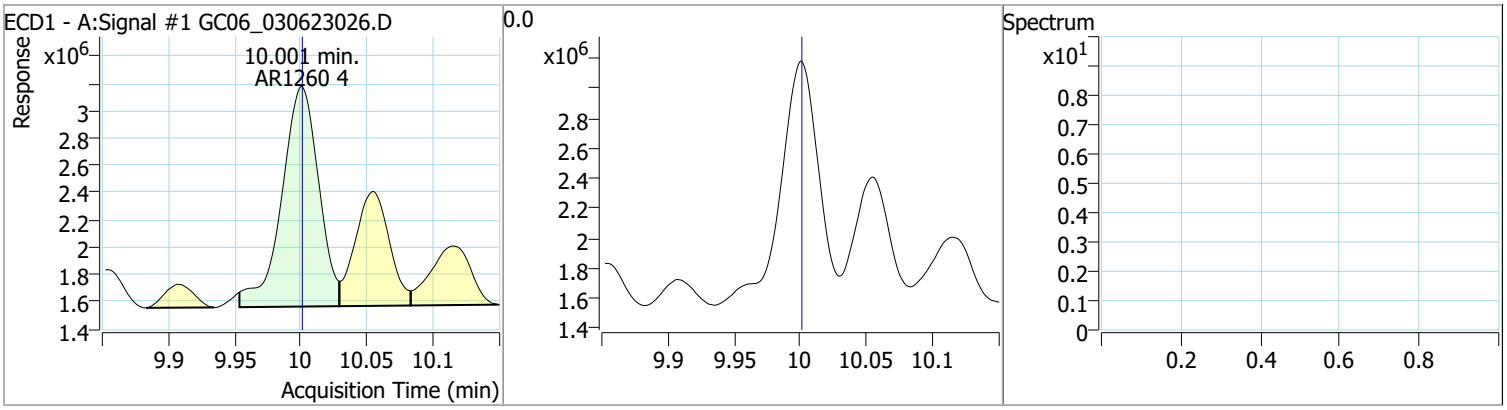
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	682.0483	9.50	0.00	5408461				



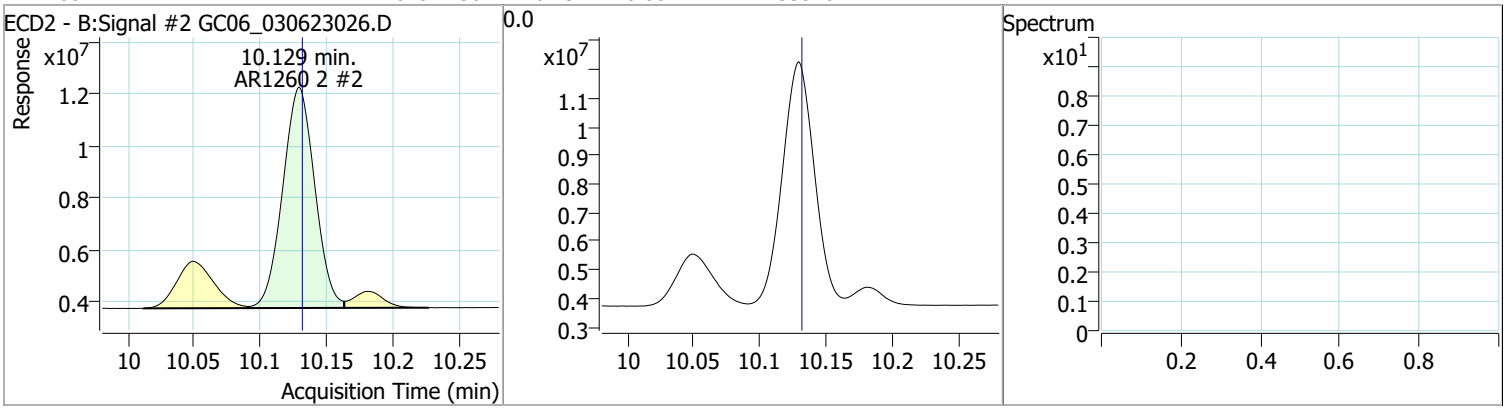
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	695.1319	9.86	0.00	12035089				



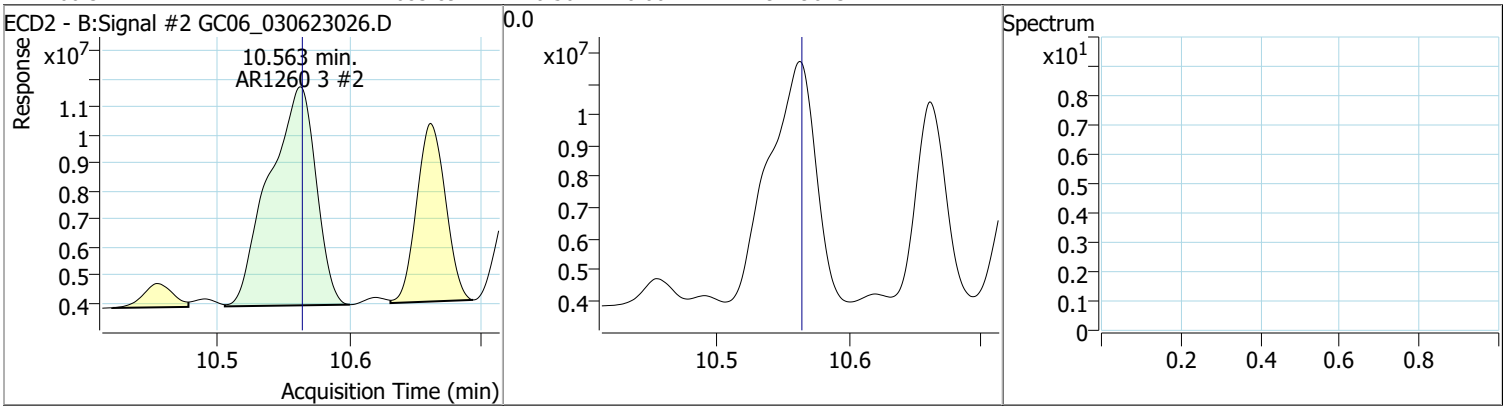
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	676.9666	10.00	0.00	3157935				



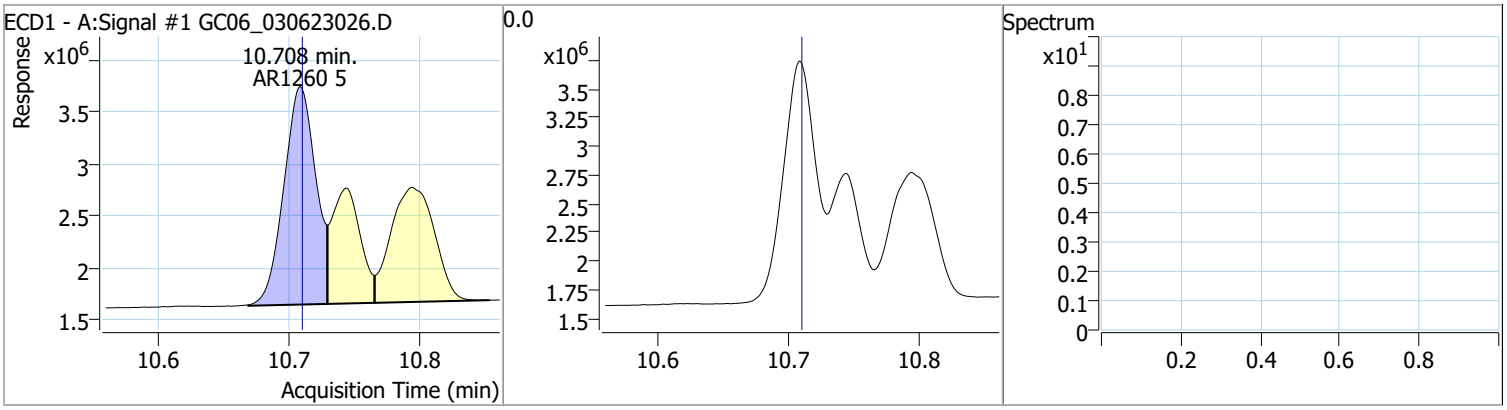
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	678.7136	10.13	0.00	14335262				



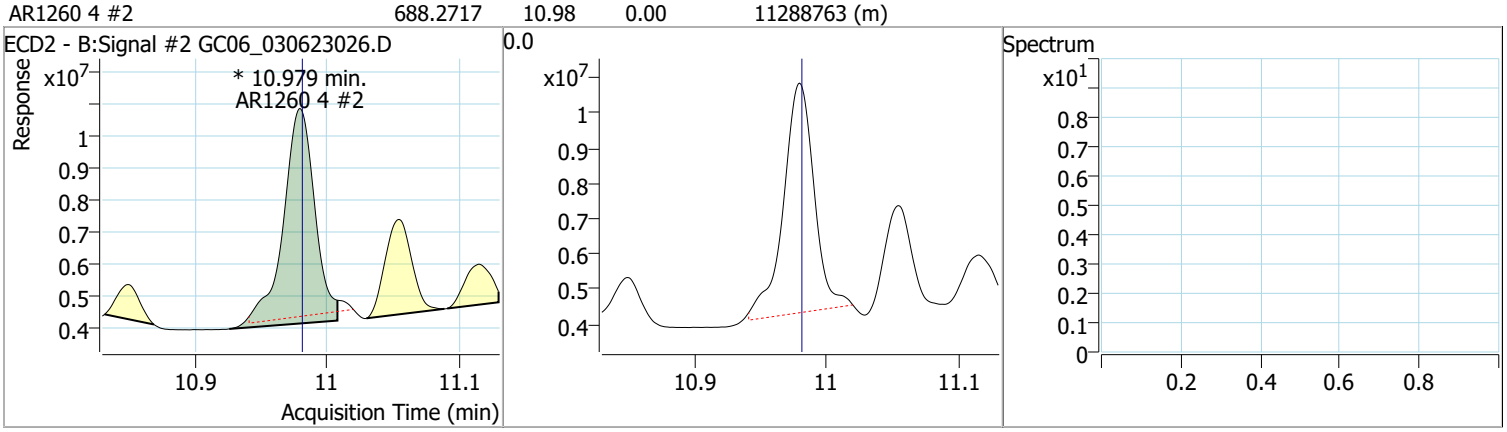
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	683.8921	10.56	0.00	19149073				



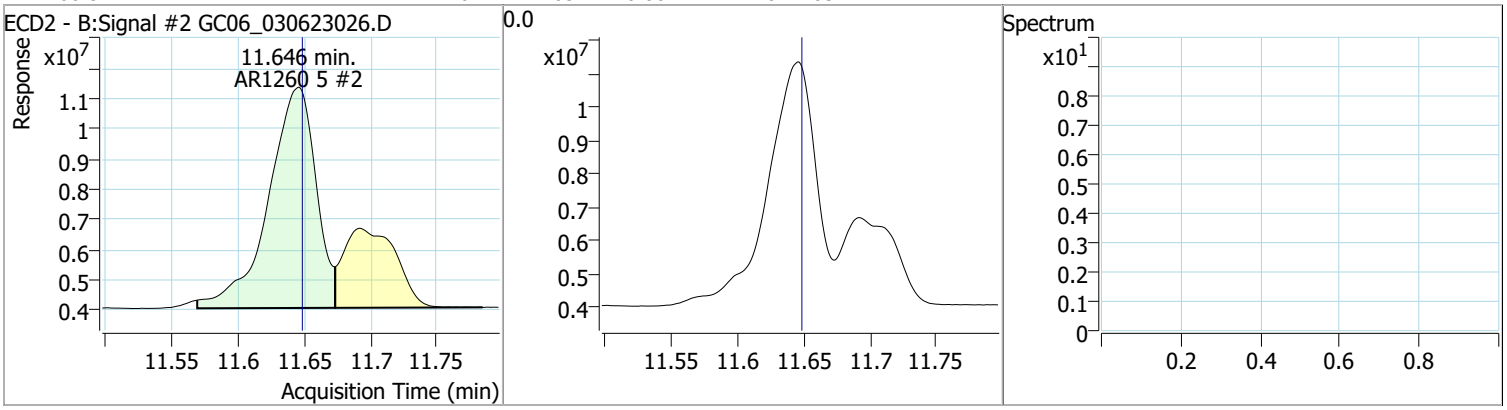
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	712.3078	10.71	0.00	3529405				



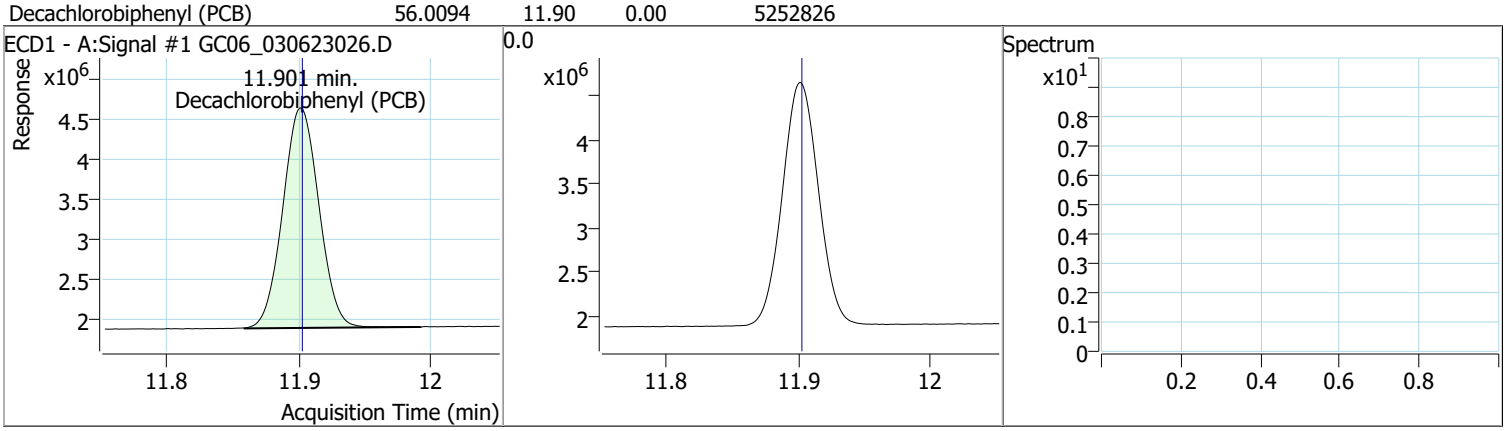
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	688.2717	10.98	0.00	11288763 (m)				



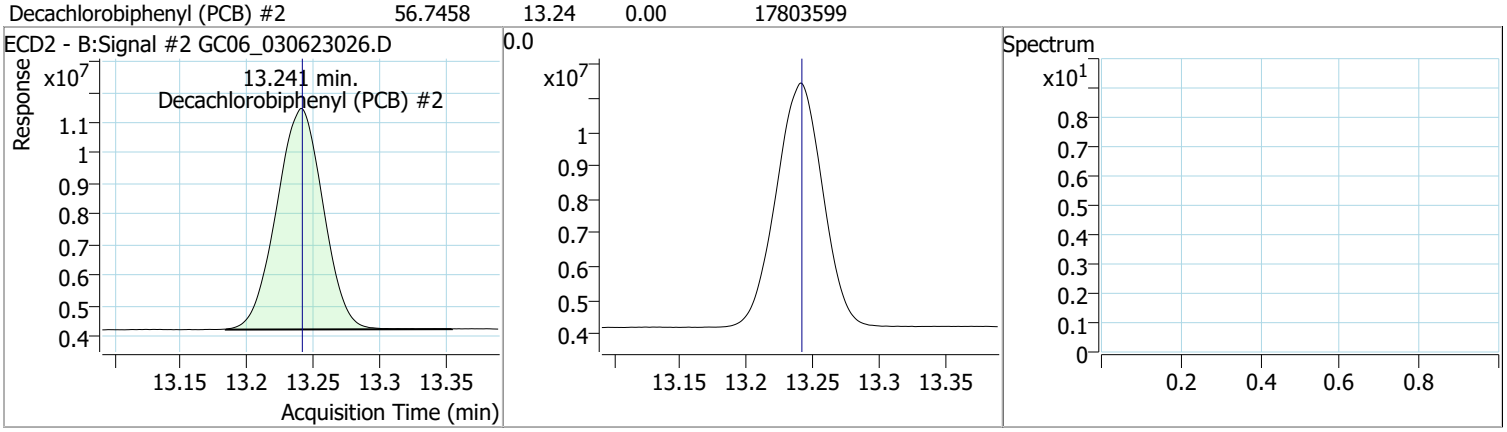
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	727.7467	11.65	0.00	18271032				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	56.0094	11.90	0.00	5252826				

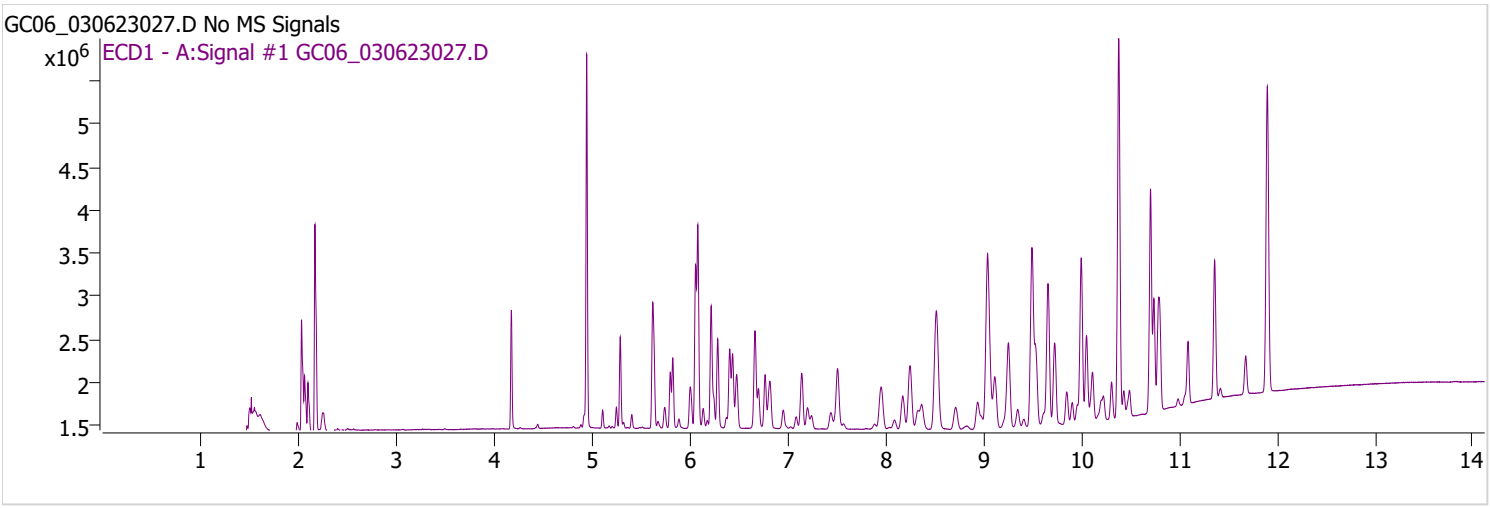


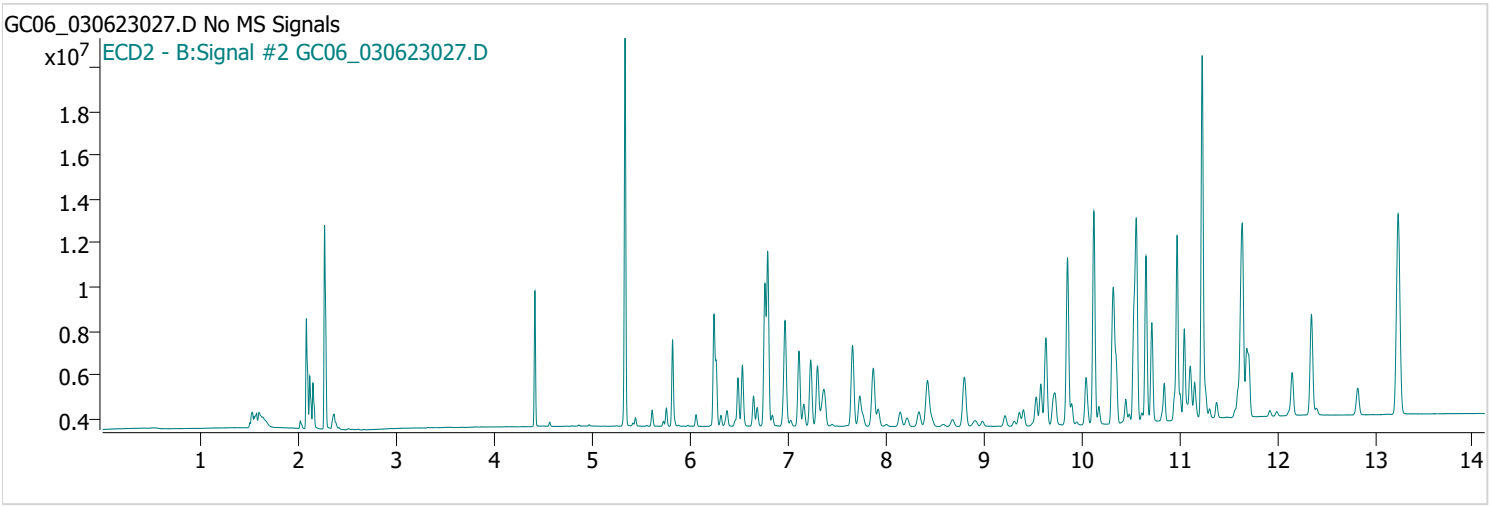
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	56.7458	13.24	0.00	17803599				



Quantitation Results Report (Not Reviewed)

Data File	GC06_030623027.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/6/2023 8:20:09 PM
Sample Name	ICAL, S17803	Instrument	SVOA-GC06
Vial	18	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	030623PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



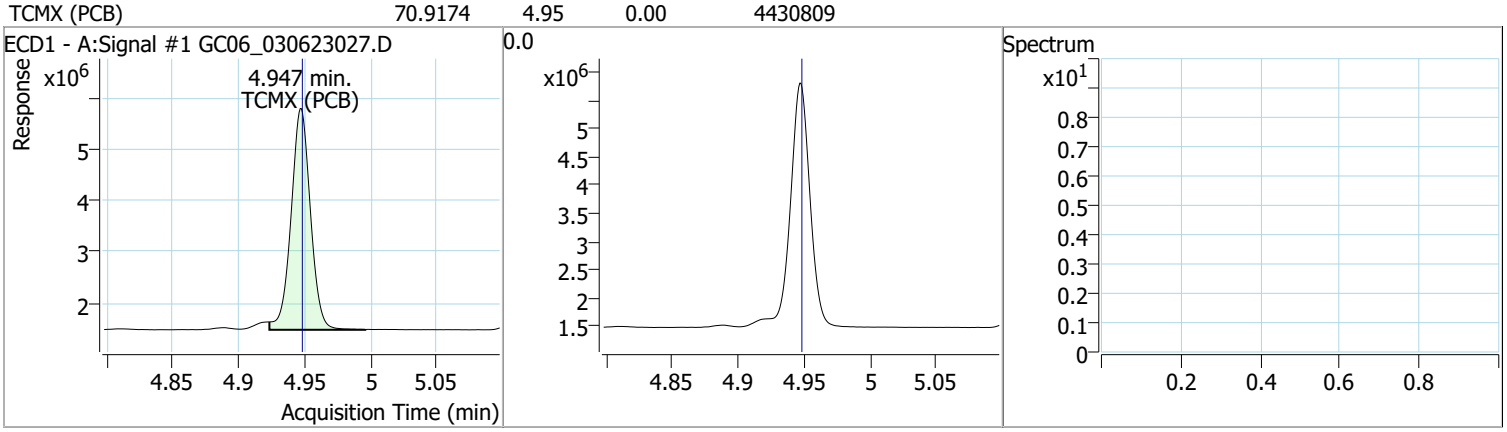


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.178	0.0	1347019.596	20.0000	ng/ml		-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	5501616.635	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.947	0.0	4430808.522	70.9174	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 354.59%		*	
S TCMX (PCB) #2	5.339	0.0	18908739.622	71.5657	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 357.83%		*	
S Decachlorobiphenyl (PCB)	11.902	0.0	6746280.681	84.2104	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 421.05%		*	
S Decachlorobiphenyl (PCB) #2	13.238	0.0	22919827.494	86.5890	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 432.94%		*	
Target Compounds							QValue

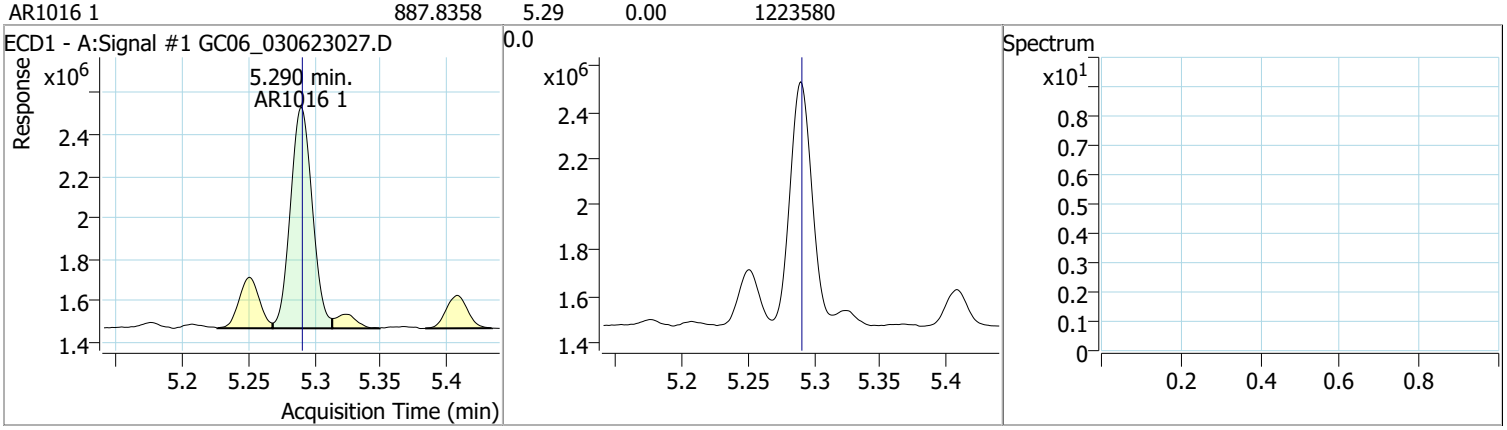
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.290	0.0	1223580.171	887.8358	ng/ml		100
T AR1016 2	5.623	0.0	2525004.188	980.9190	ng/ml		100
T AR1016 1 #2	5.825	0.0	4798320.883	915.8895	ng/ml		100
T AR1016 3	6.083	0.0	3198986.015	1005.5917	ng/ml		100
T AR1016 4	6.219	0.0	2379114.933	883.8410	ng/ml		100
T AR1016 2 #2	6.248	0.0	10218165.012	881.1447	ng/ml		100
T AR1016 5	6.408	0.0	1393083.466	908.9728	ng/ml		100
T AR1016 3 #2	6.796	0.0	12673060.862	895.4585	ng/ml		100
T AR1016 4 #2	6.973	0.0	9349228.751	894.4002	ng/ml		100
T AR1016 5 #2	7.663	0.0	7590906.474	893.1905	ng/ml		100
T AR1260 1	8.520	0.0	4019954.440	1023.6337	ng/ml		100
T AR1260 2	9.043	0.0	5663215.414	913.2067	ng/ml		100
T AR1260 3	9.496	0.0	6262878.762	924.5883	ng/ml		100
T AR1260 1 #2	9.859	0.0	13681647.220	936.6590	ng/ml		100
T AR1260 4	10.000	0.0	3713624.243	931.9549	ng/ml		100
T AR1260 2 #2	10.129	0.0	16399244.005	920.3010	ng/ml		100
T AR1260 3 #2	10.563	0.0	22359620.815	946.5192	ng/ml		100
T AR1260 5	10.708	0.0	4181607.132	987.9670	ng/ml		100
T AR1260 4 #2	10.979	0.0	13248668.127	957.4387	ng/ml	m	100
T AR1260 5 #2	11.645	0.0	22236109.035	1049.7869	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

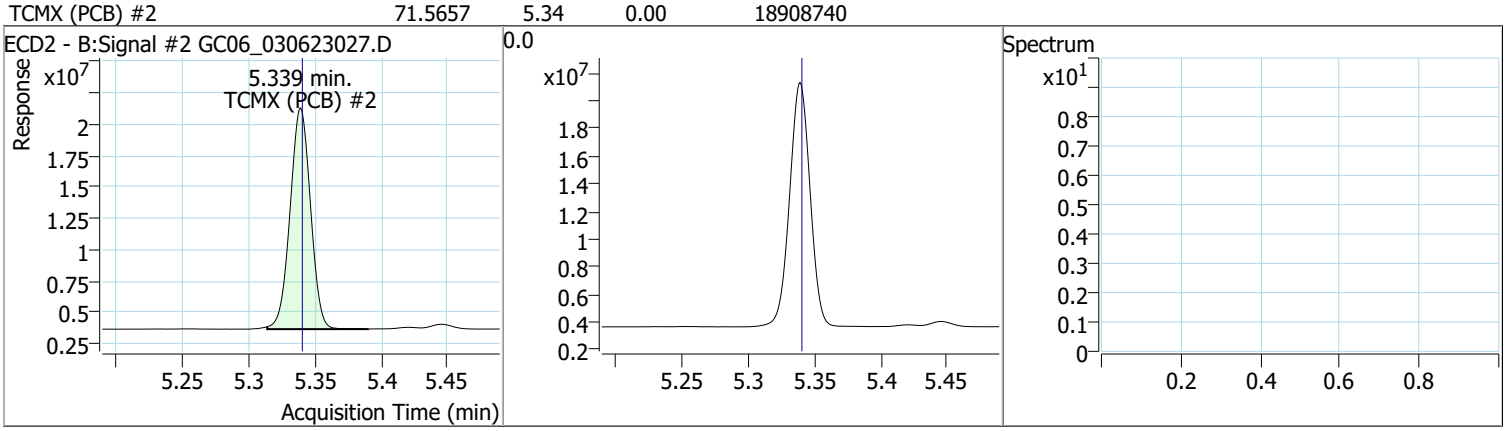
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	70.9174	4.95	0.00	4430809				



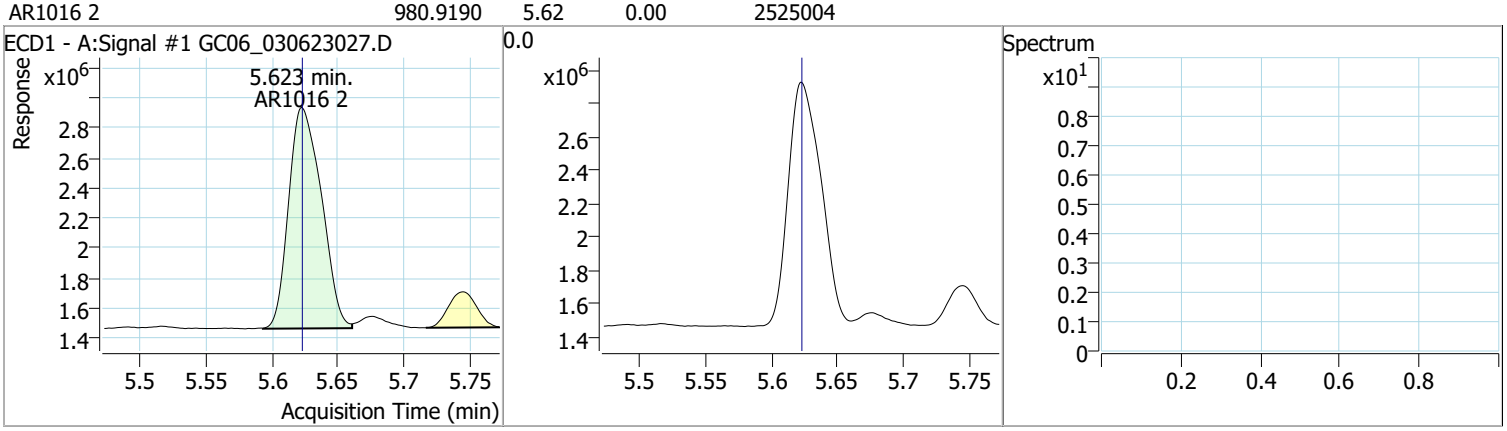
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	887.8358	5.29	0.00	1223580				



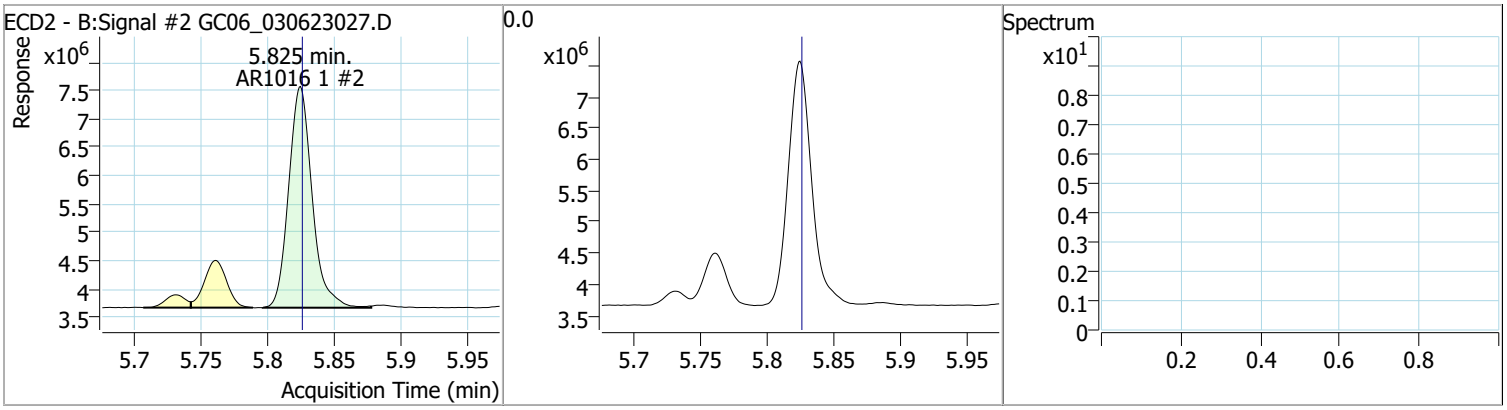
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	71.5657	5.34	0.00	18908740				



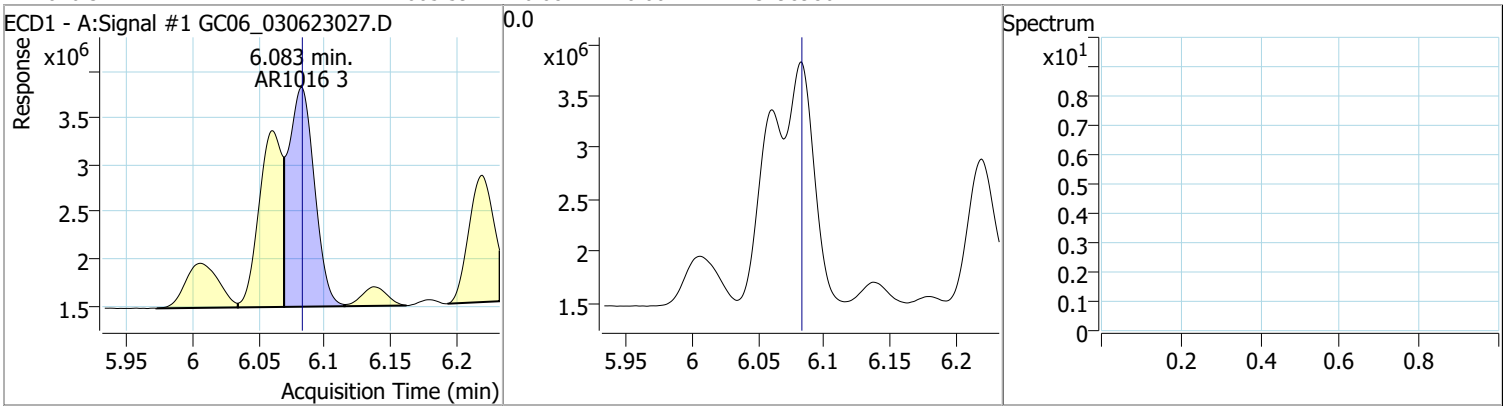
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	980.9190	5.62	0.00	2525004				



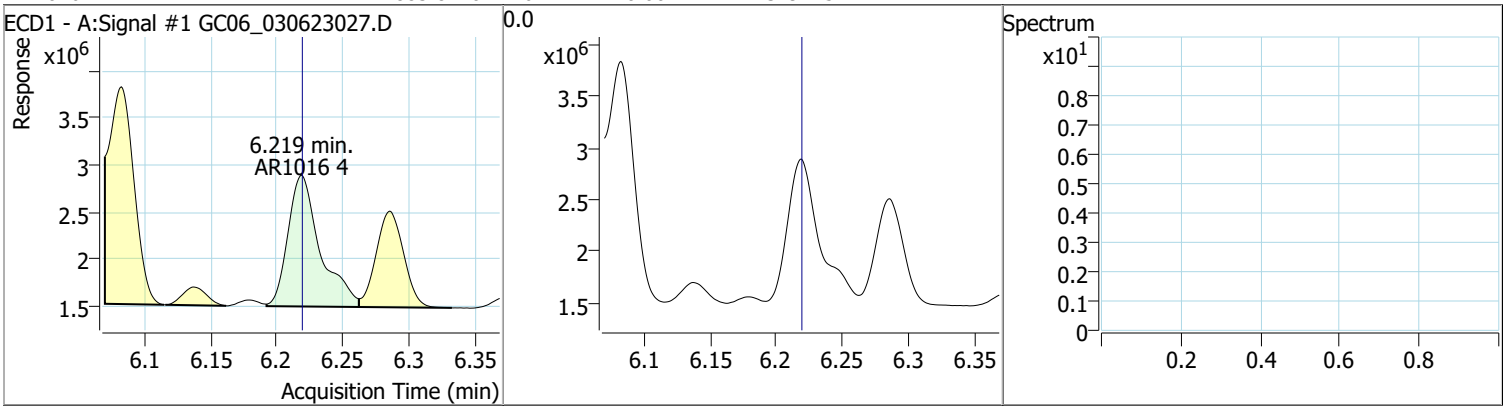
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	915.8895	5.83	0.00	4798321				



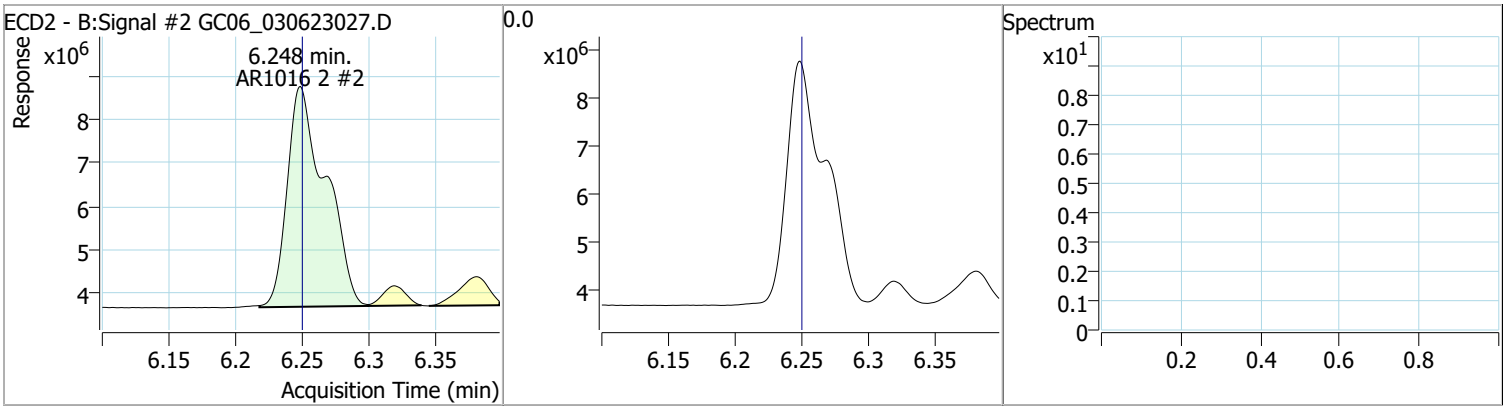
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	1005.5917	6.08	0.00	3198986				



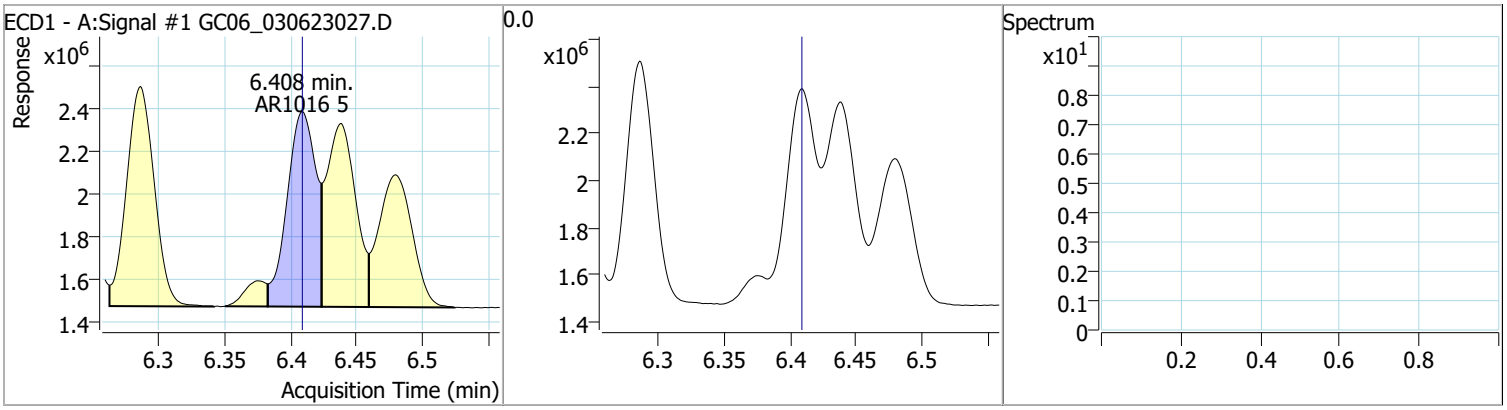
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	883.8410	6.22	0.00	2379115				



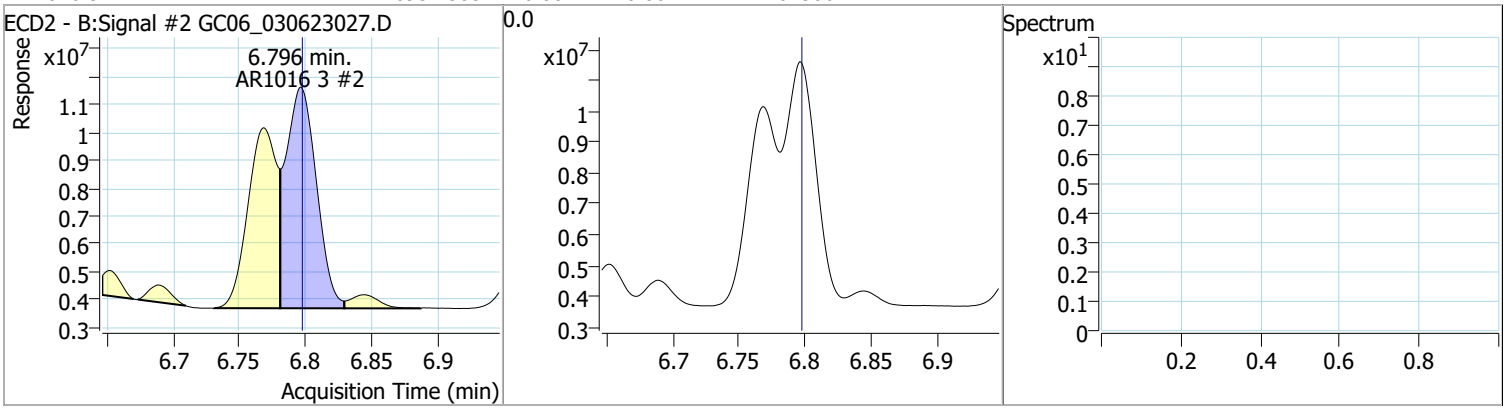
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	881.1447	6.25	0.00	10218165				



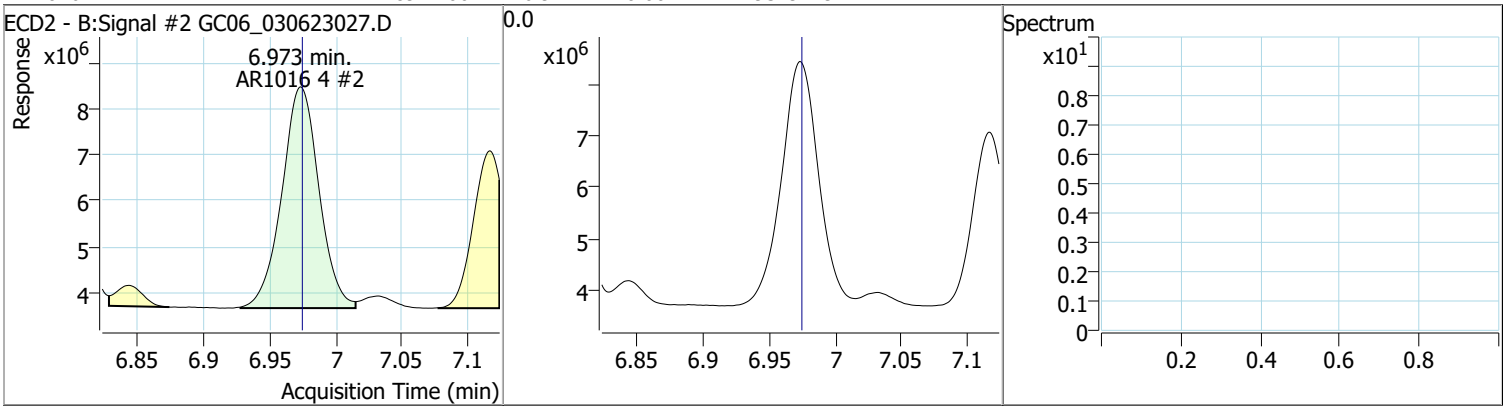
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	908.9728	6.41	0.00	1393083				



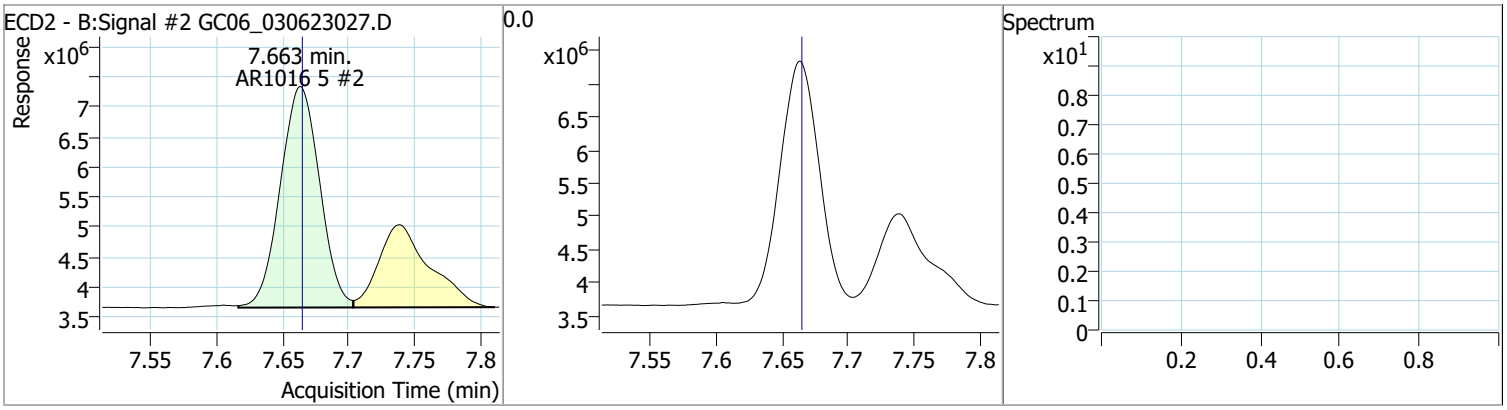
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	895.4585	6.80	0.00	12673061				



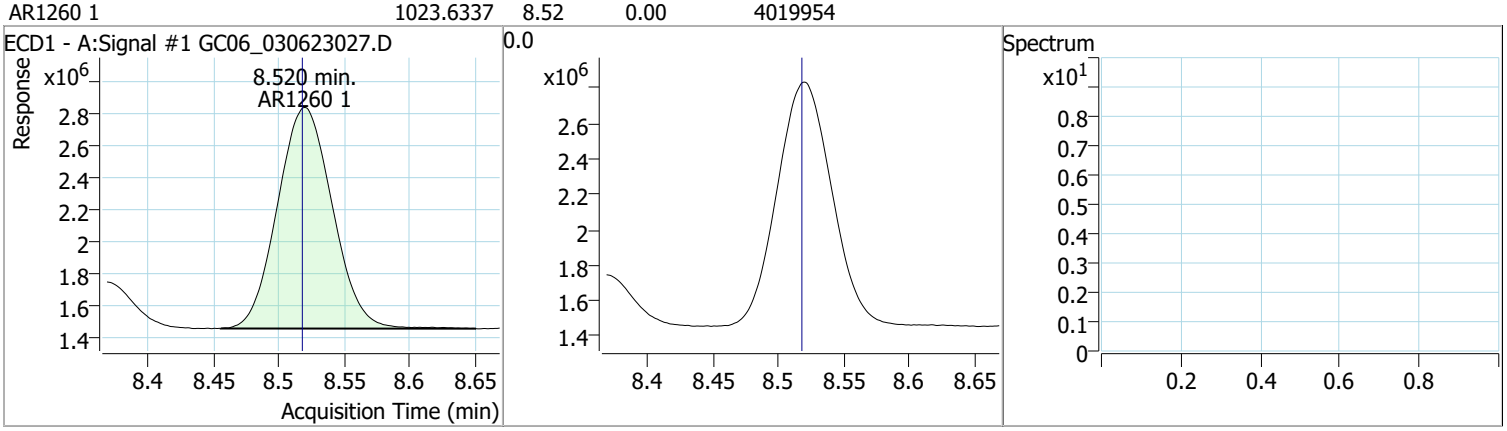
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	894.4002	6.97	0.00	9349229				



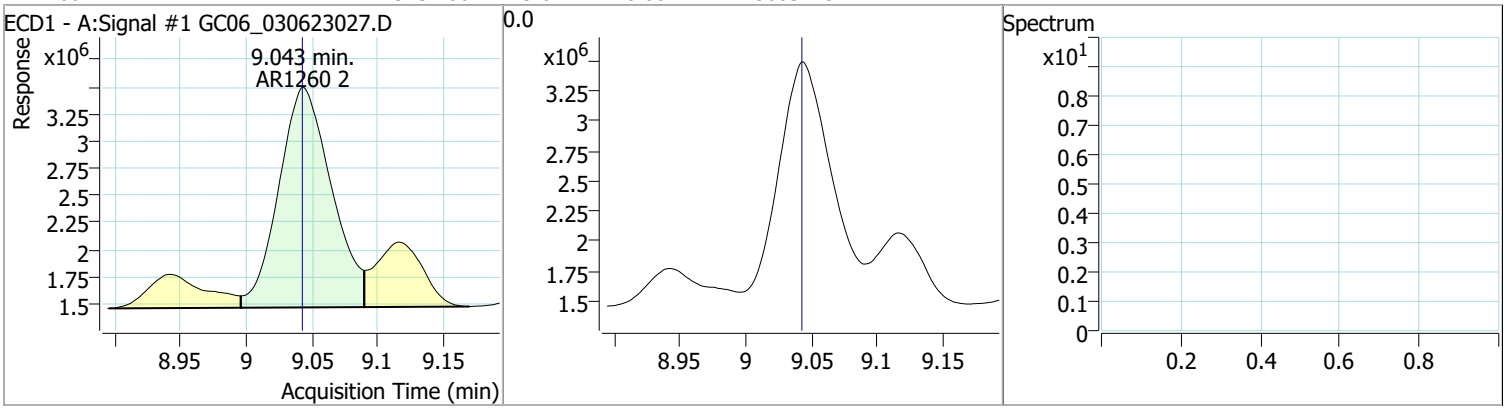
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	893.1905	7.66	0.00	7590906				



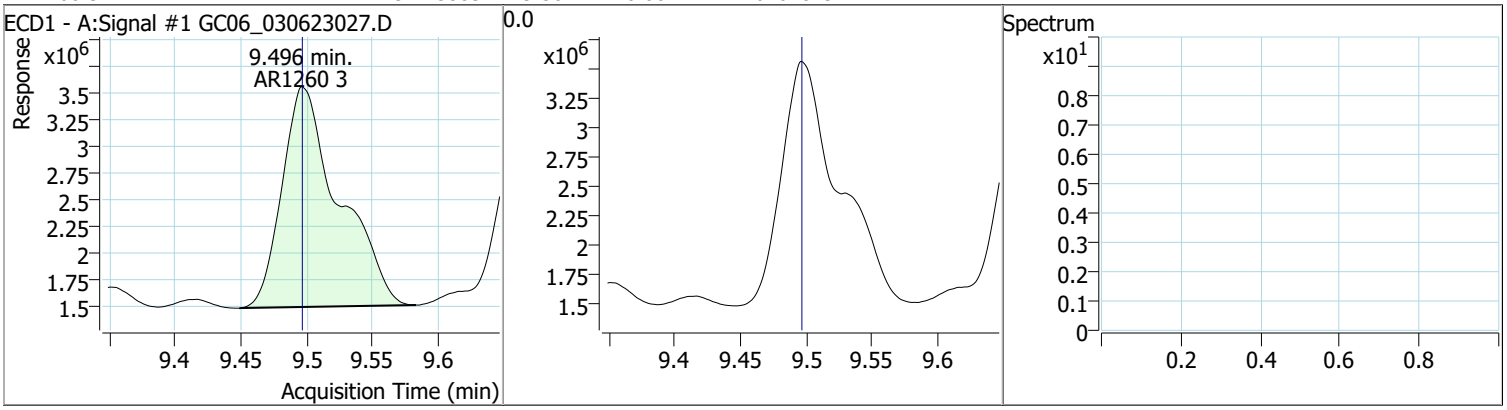
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1023.6337	8.52	0.00	4019954				



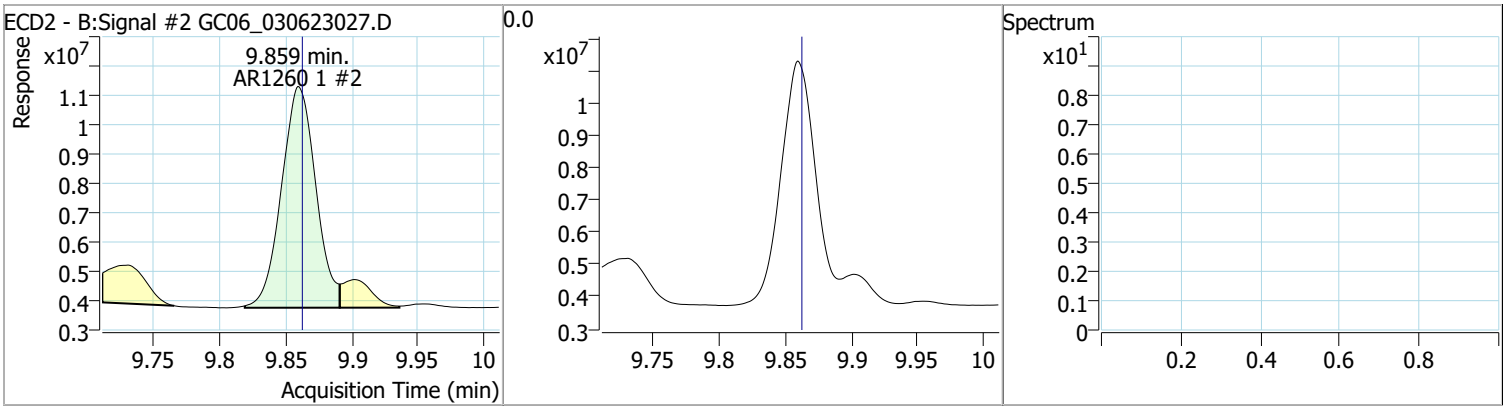
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	913.2067	9.04	0.00	5663215				



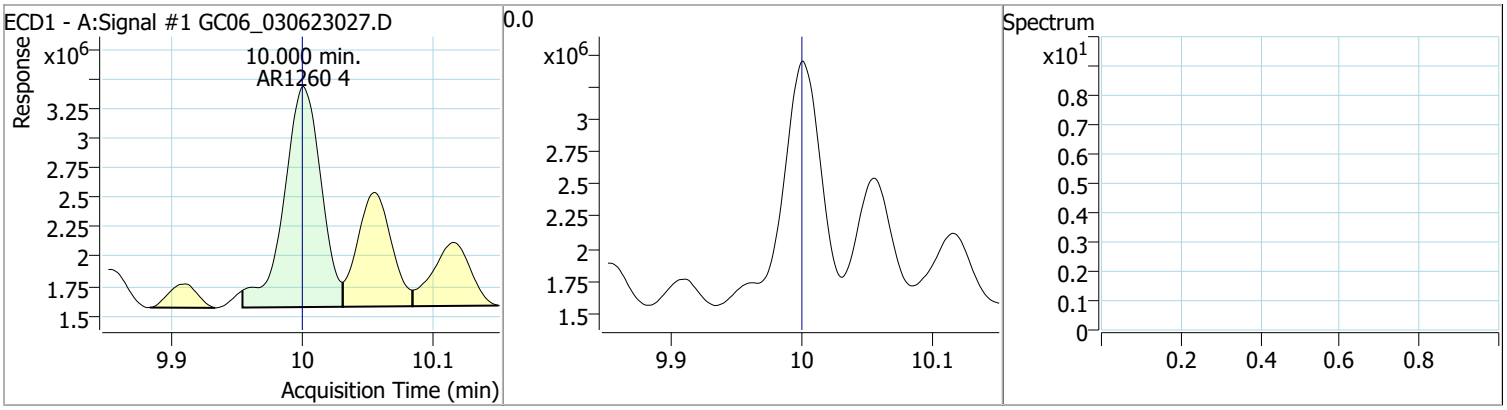
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	924.5883	9.50	0.00	6262879				



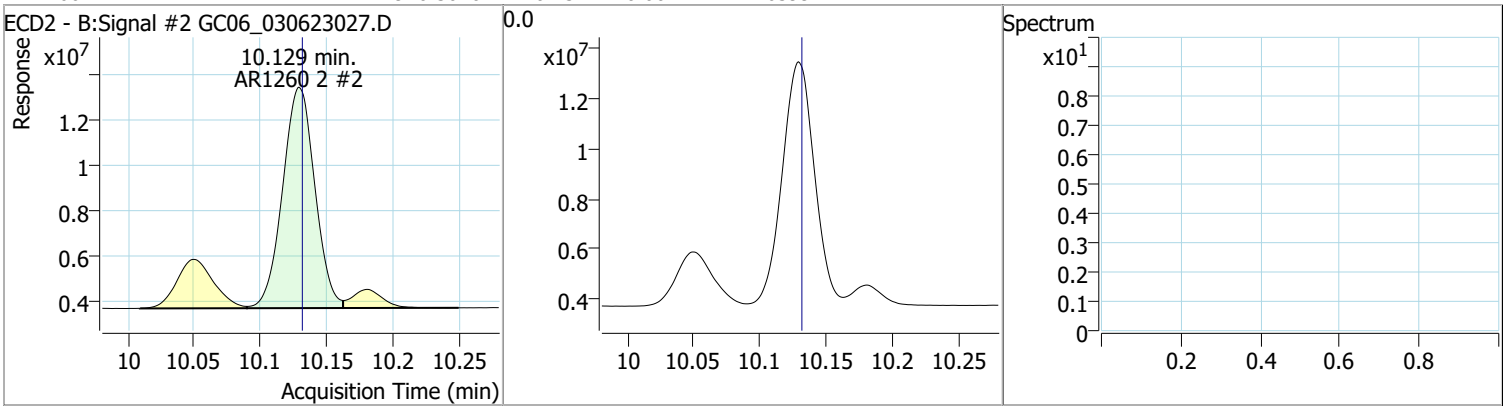
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	936.6590	9.86	0.00	13681647				



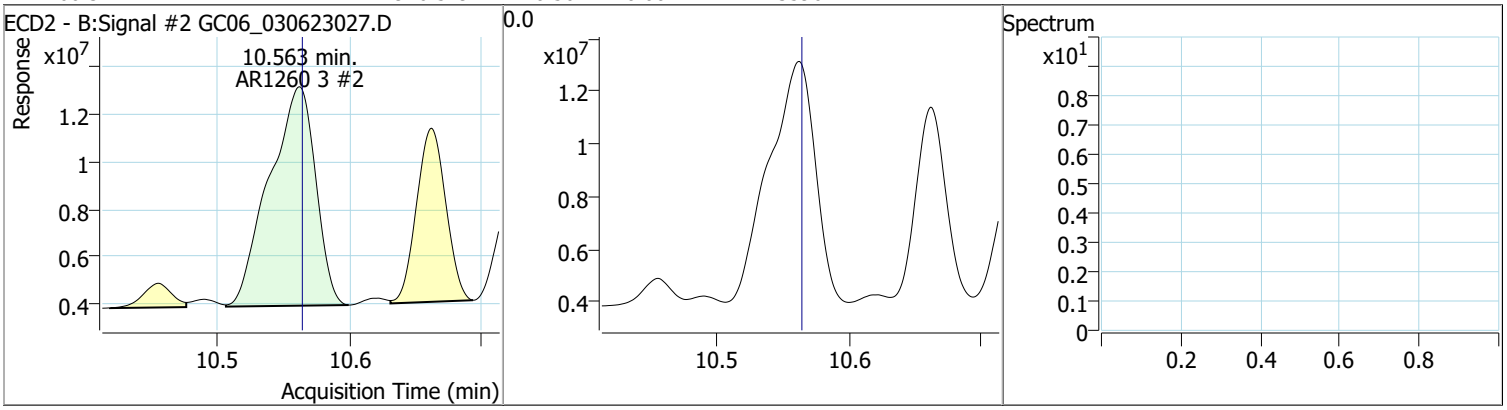
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	931.9549	10.00	0.00	3713624				



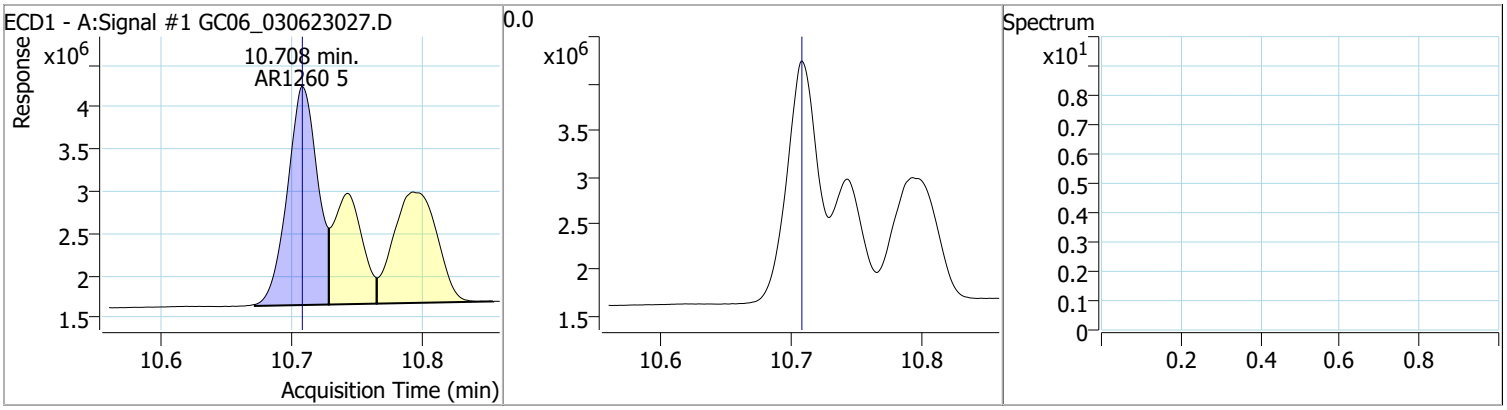
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	920.3010	10.13	0.00	16399244				



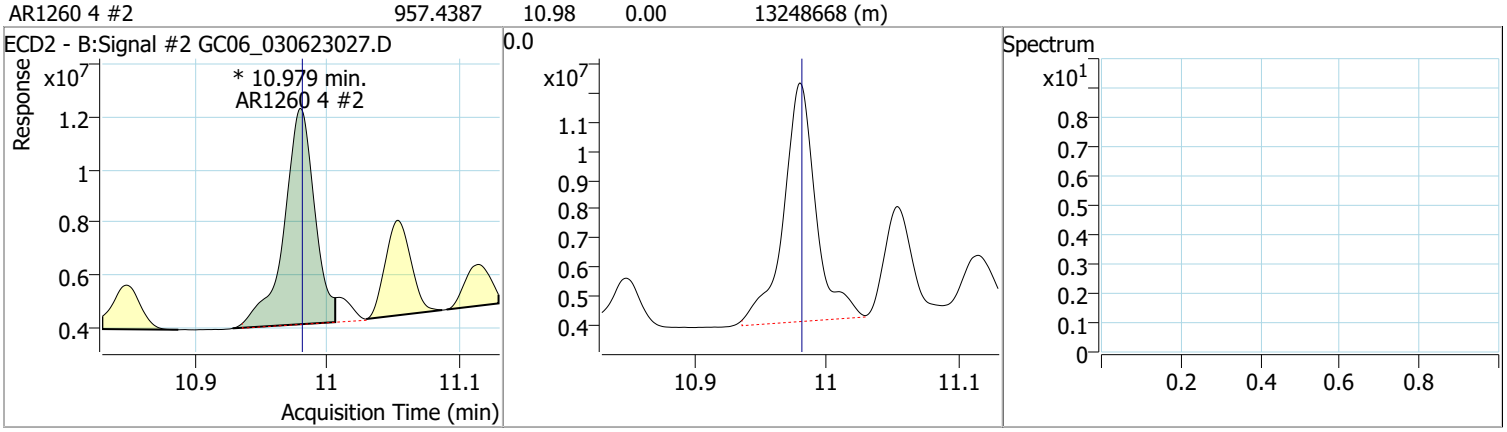
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	946.5192	10.56	0.00	22359621				



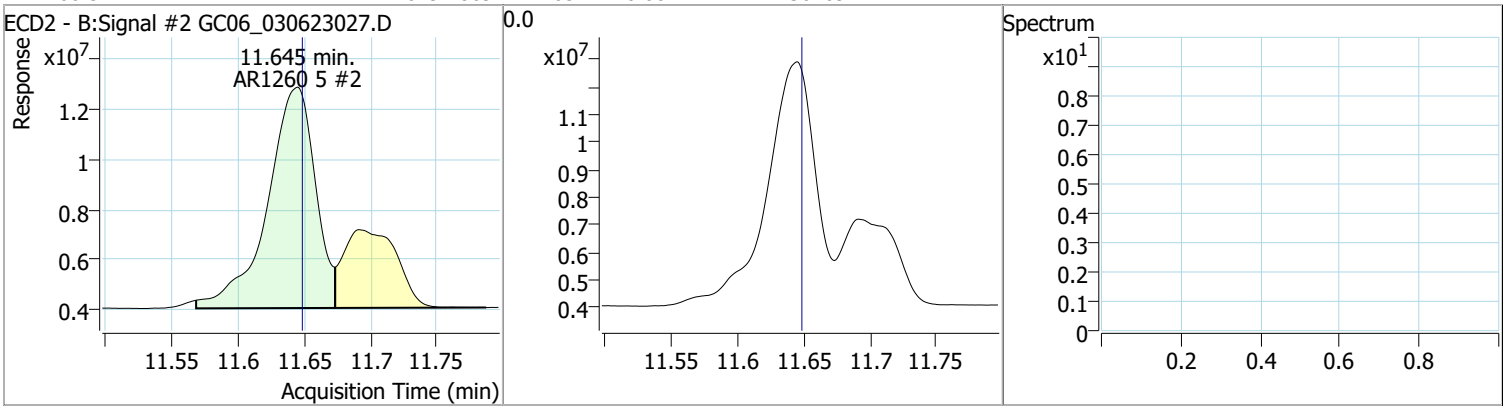
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	987.9670	10.71	0.00	4181607				



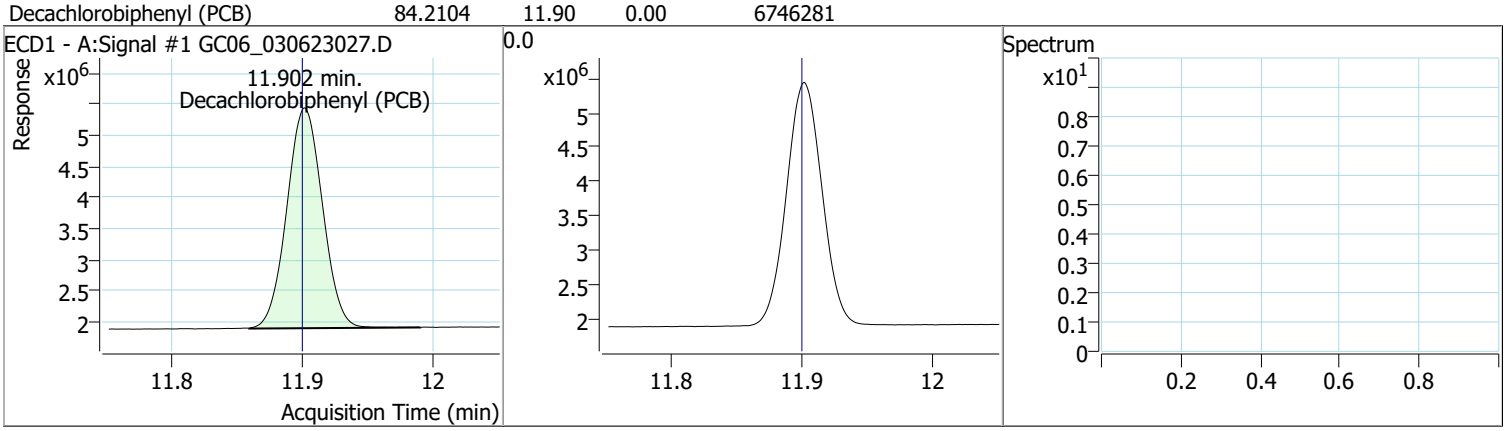
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	957.4387	10.98	0.00	13248668 (m)				



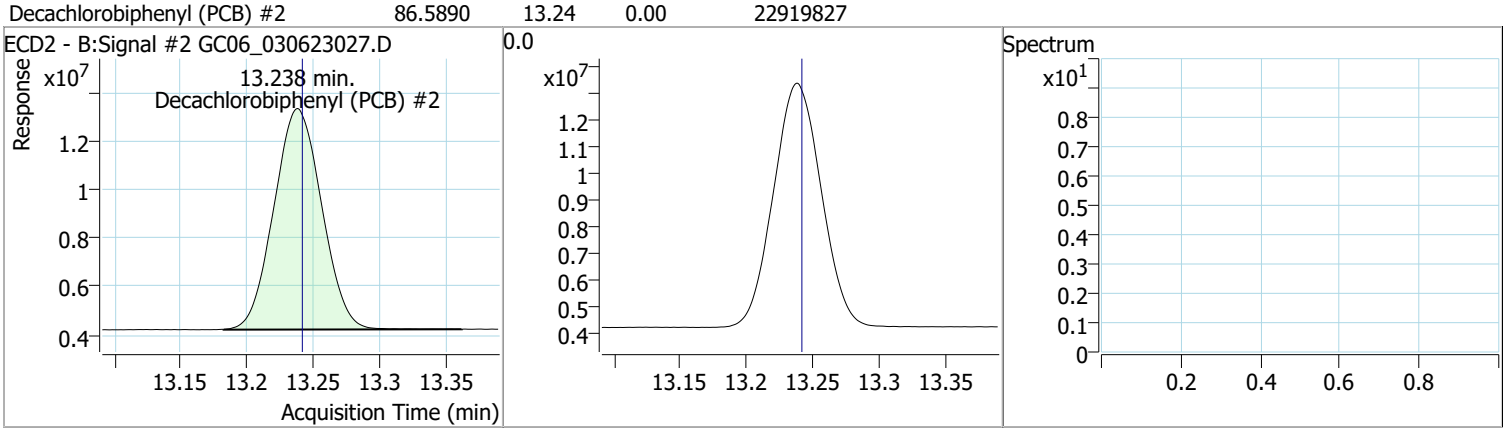
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	1049.7869	11.65	0.00	22236109				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	84.2104	11.90	0.00	6746281				

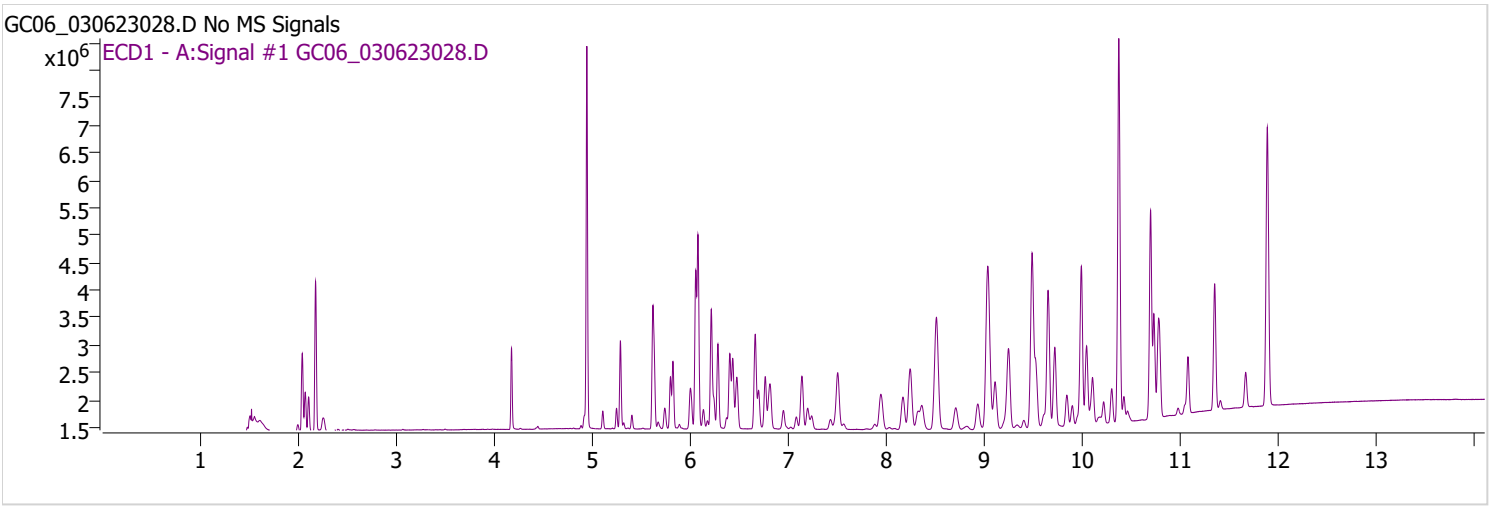


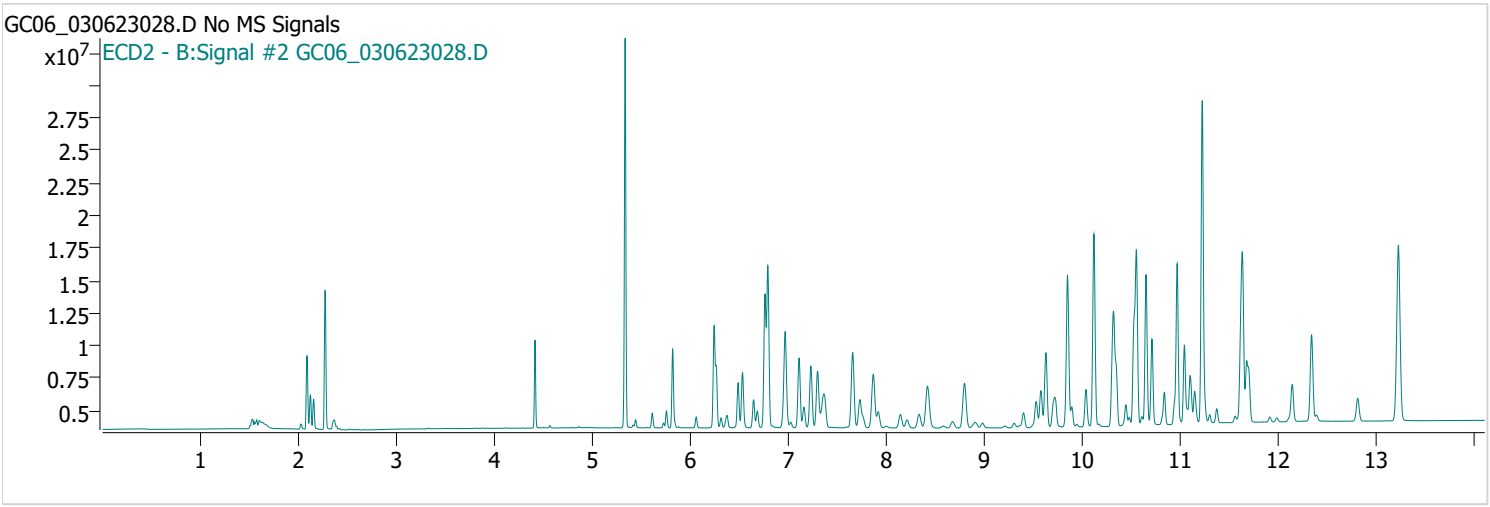
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	86.5890	13.24	0.00	22919827				



Quantitation Results Report (Not Reviewed)

Data File	GC06_030623028.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/6/2023 8:38:36 PM
Sample Name	ICAL, S17804	Instrument	SVOA-GC06
Vial	19	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	030623PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



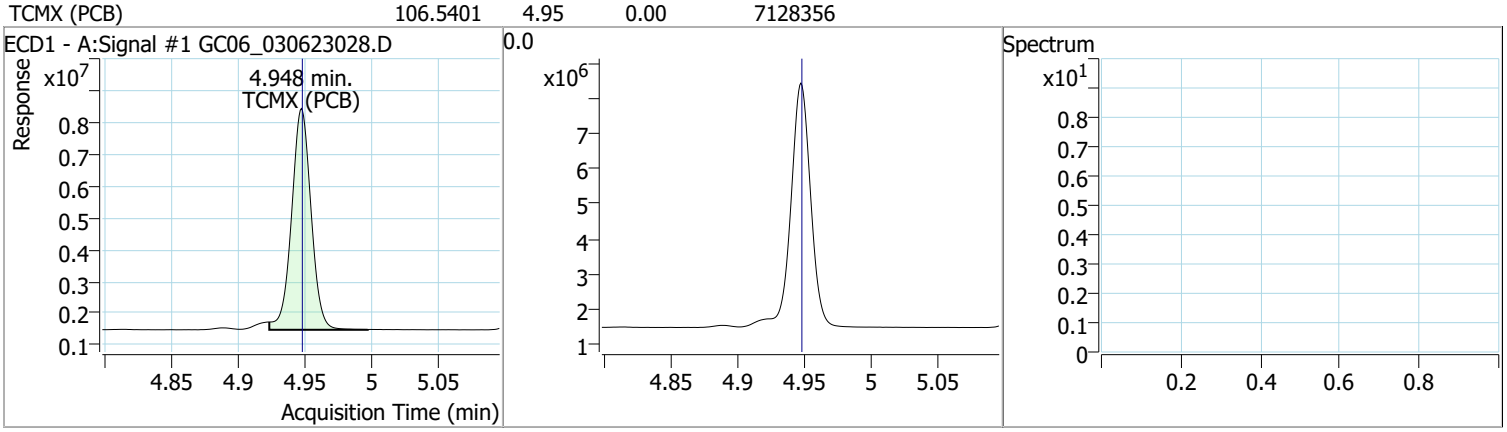


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.178	0.0	1442514.406	20.0000	ng/ml		-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	5909788.201	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.948	0.0	7128356.282	106.5401	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 532.70%		*	
S TCMX (PCB) #2	5.339	0.0	30662233.668	108.0350	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 540.17%		*	
S Decachlorobiphenyl (PCB)	11.900	0.0	9539949.081	111.1990	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 556.00%		*	
S Decachlorobiphenyl (PCB) #2	13.239	0.0	32429970.960	114.0555	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 570.28%		*	
Target Compounds							QValue

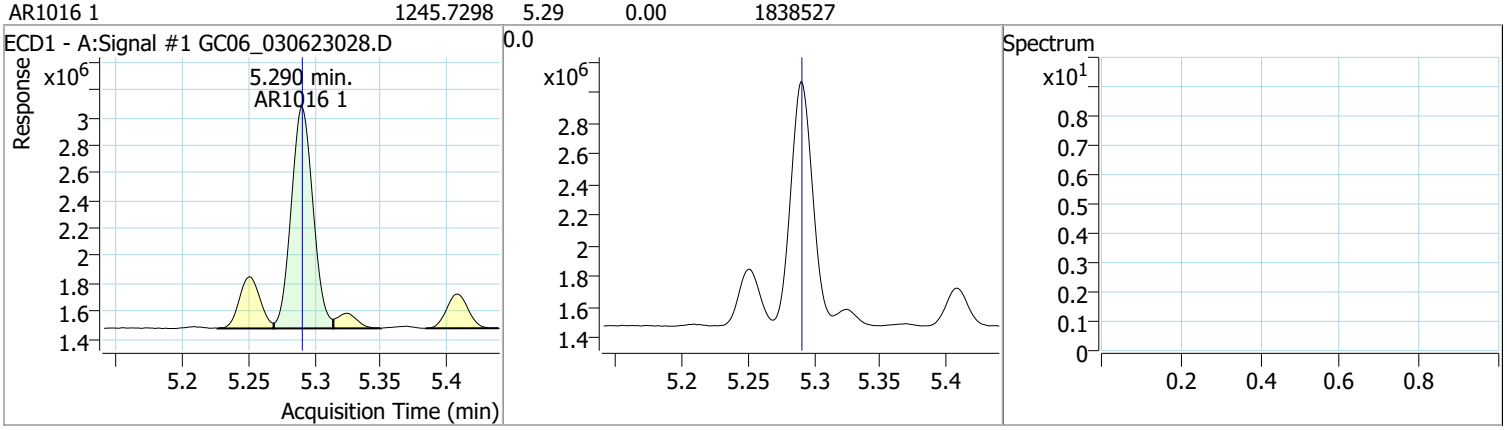
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.290	0.0	1838526.574	1245.7298	ng/ml		100
T AR1016 2	5.623	0.0	3818458.903	1500.6206	ng/ml		100
T AR1016 1 #2	5.825	0.0	7410943.443	1316.8785	ng/ml		100
T AR1016 3	6.083	0.0	4725698.648	1499.6422	ng/ml		100
T AR1016 4	6.219	0.0	3603670.311	1250.1368	ng/ml		100
T AR1016 2 #2	6.248	0.0	15838664.719	1271.4852	ng/ml		100
T AR1016 5	6.408	0.0	2073678.268	1263.4815	ng/ml	m	100
T AR1016 3 #2	6.797	0.0	20223194.328	1330.2464	ng/ml		100
T AR1016 4 #2	6.974	0.0	14397036.000	1282.1759	ng/ml		100
T AR1016 5 #2	7.664	0.0	11834850.116	1296.3779	ng/ml		100
T AR1260 1	8.519	0.0	5699155.977	1519.0928	ng/ml		100
T AR1260 2	9.044	0.0	8397030.339	1264.4029	ng/ml		100
T AR1260 3	9.497	0.0	9169022.222	1264.0119	ng/ml		100
T AR1260 1 #2	9.858	0.0	20994205.872	1338.0150	ng/ml		100
T AR1260 4	10.000	0.0	5388420.218	1262.7348	ng/ml		100
T AR1260 2 #2	10.129	0.0	25291207.704	1321.2776	ng/ml		100
T AR1260 3 #2	10.562	0.0	32615539.385	1285.3103	ng/ml		100
T AR1260 5	10.708	0.0	6248837.890	1378.6442	ng/ml		100
T AR1260 4 #2	10.979	0.0	20229134.150	1360.9258	ng/ml	m	100
T AR1260 5 #2	11.644	0.0	30091695.736	1322.5357	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

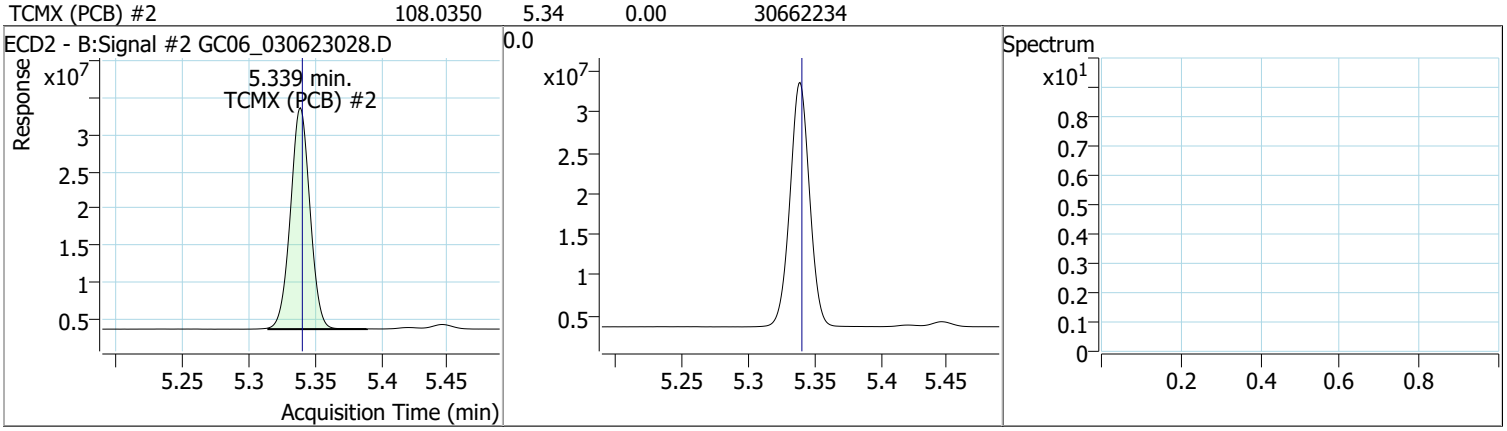
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	106.5401	4.95	0.00	7128356				



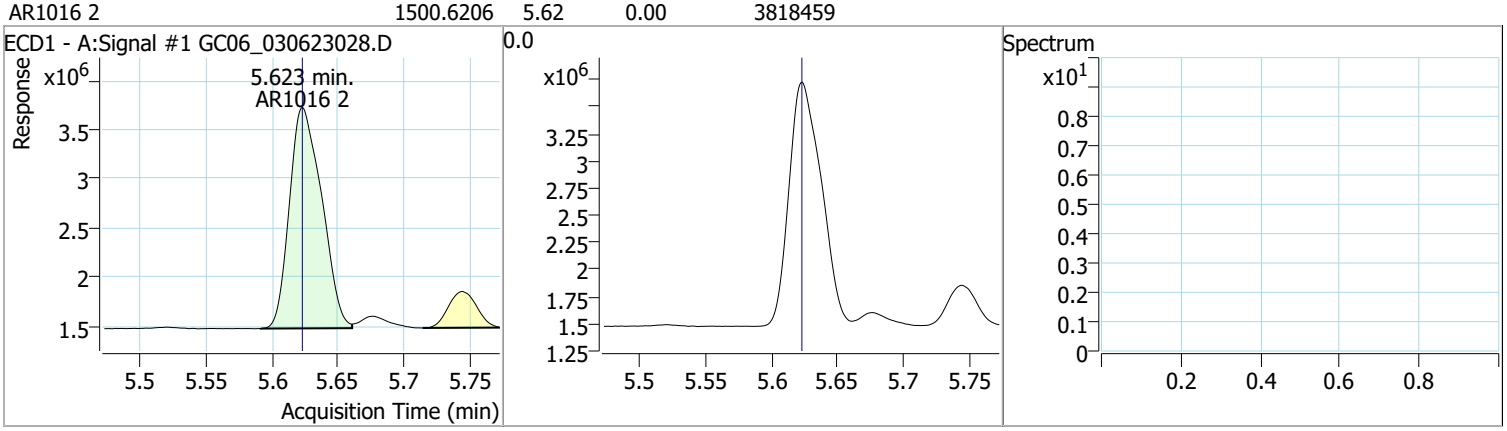
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AR1016 1	1245.7298	5.29	0.00	1838527				



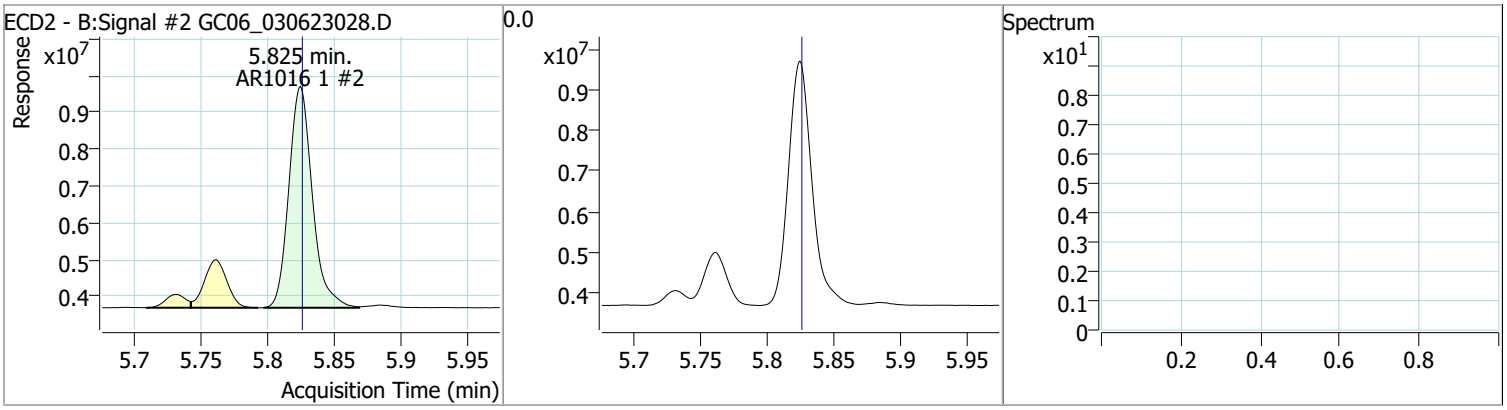
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TCMX (PCB) #2	108.0350	5.34	0.00	30662234				



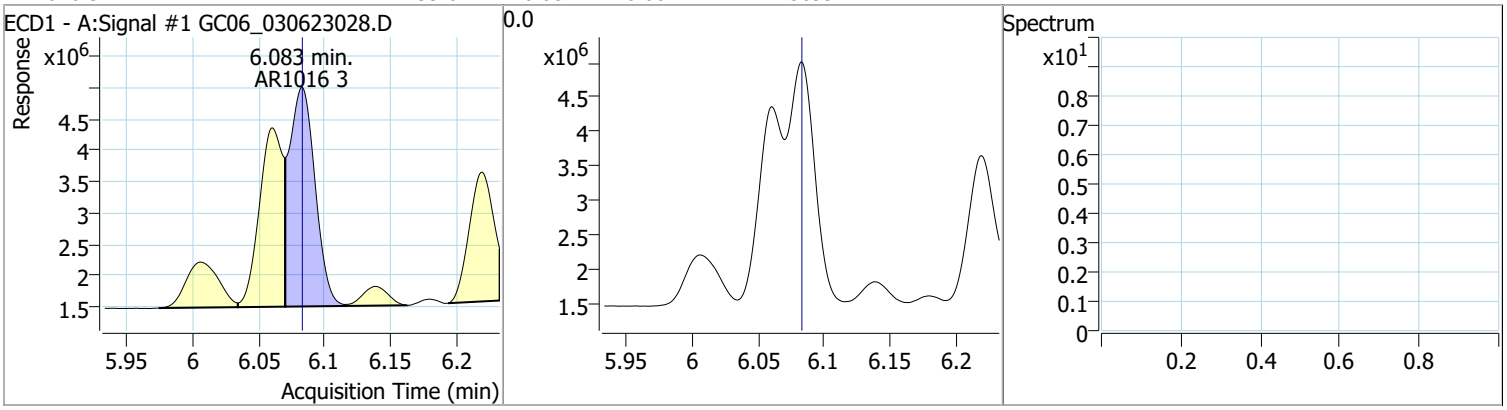
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AR1016 2	1500.6206	5.62	0.00	3818459				



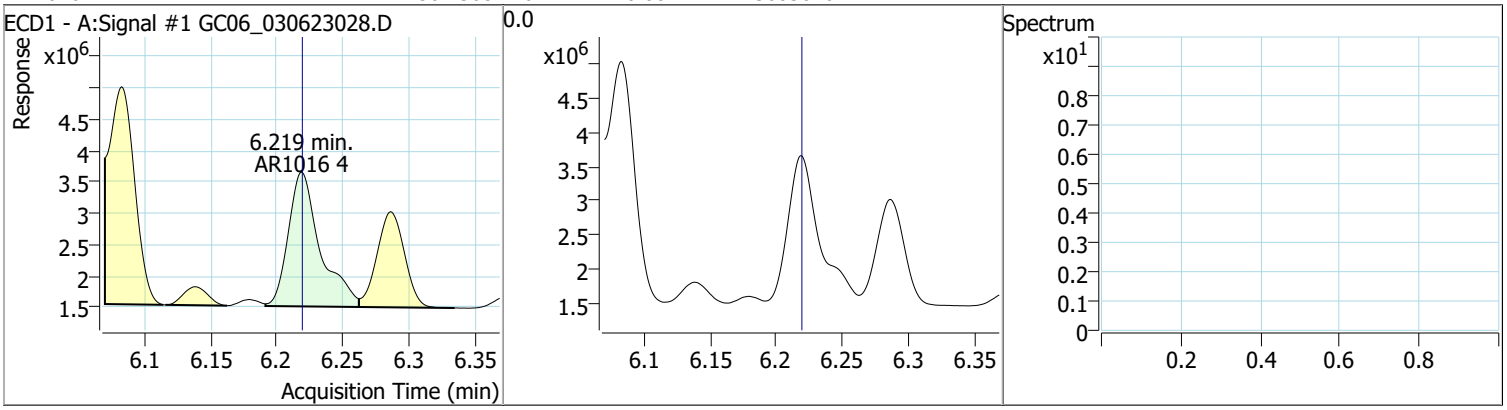
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AR1016 1 #2	1316.8785	5.83	0.00	7410943				



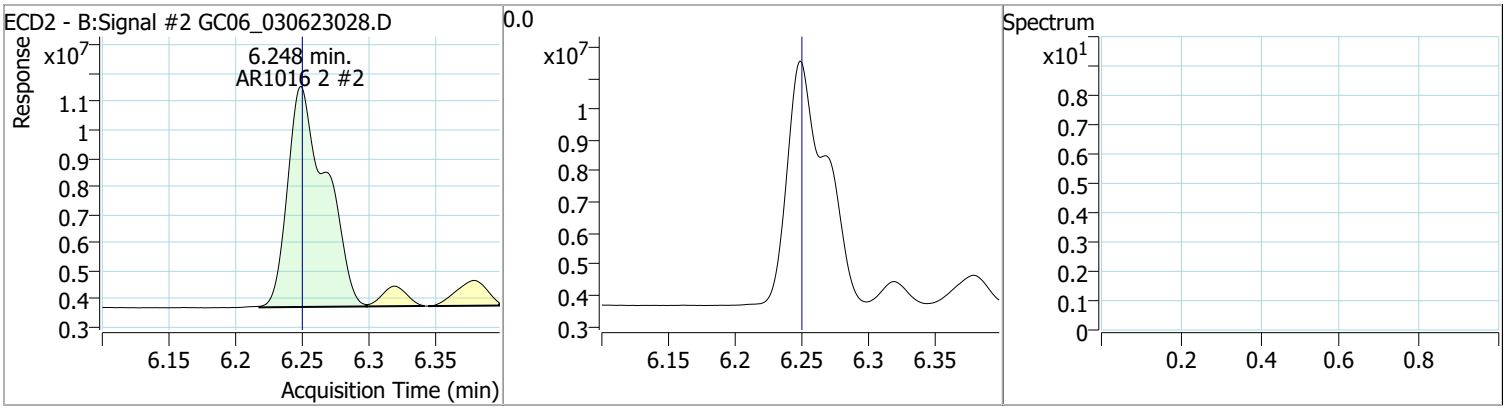
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AR1016 3	1499.6422	6.08	0.00	4725699				



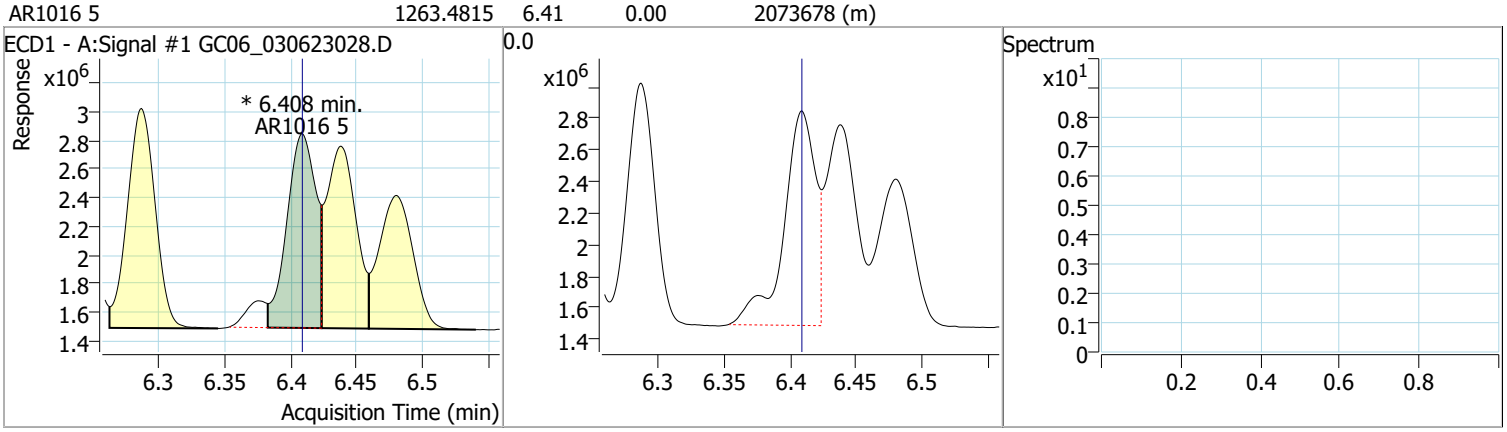
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1250.1368	6.22	0.00	3603670				



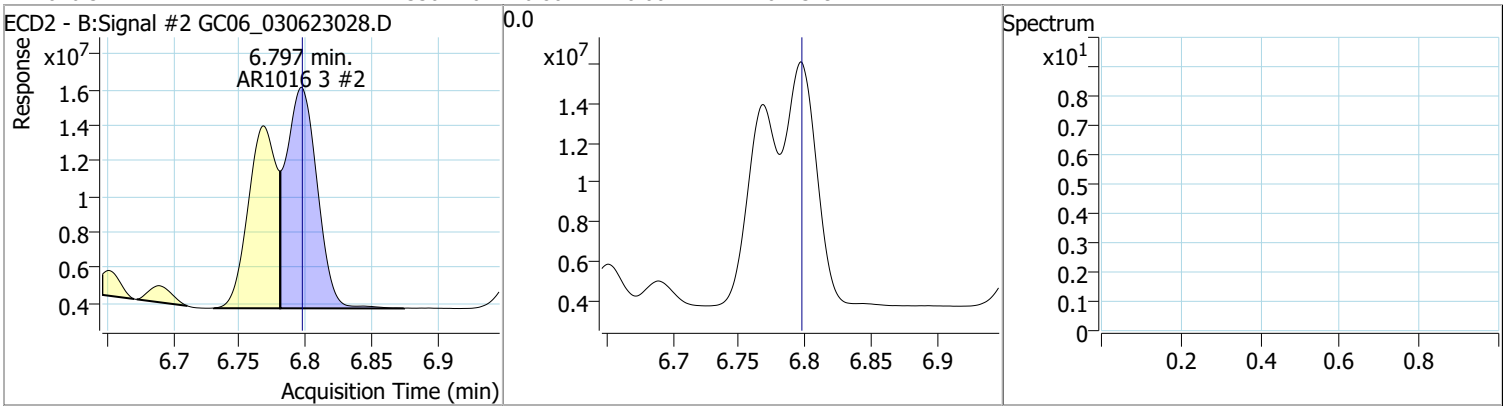
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AR1016 2 #2	1271.4852	6.25	0.00	15838665				



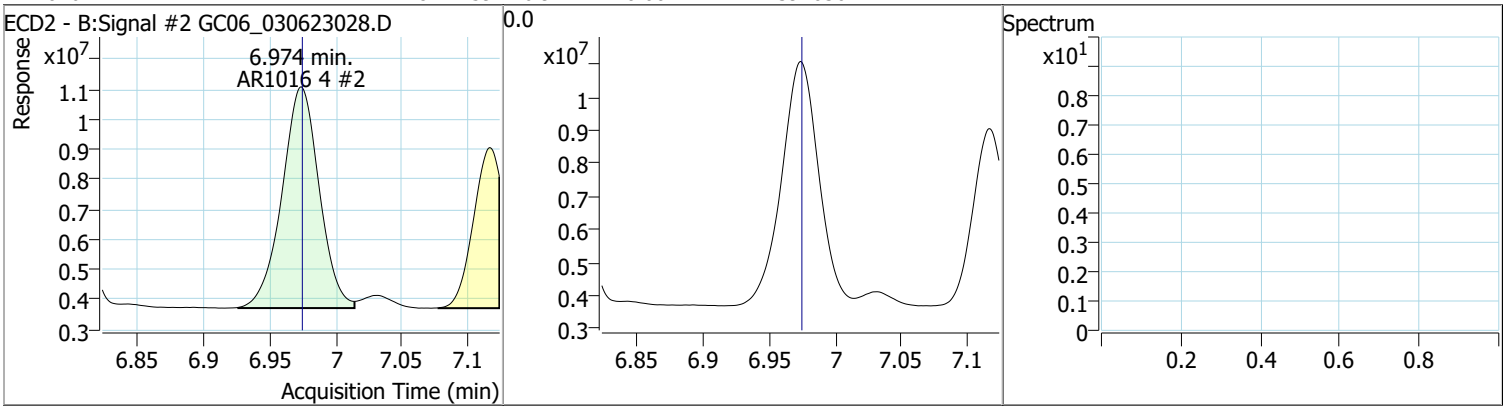
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	1263.4815	6.41	0.00	2073678 (m)				



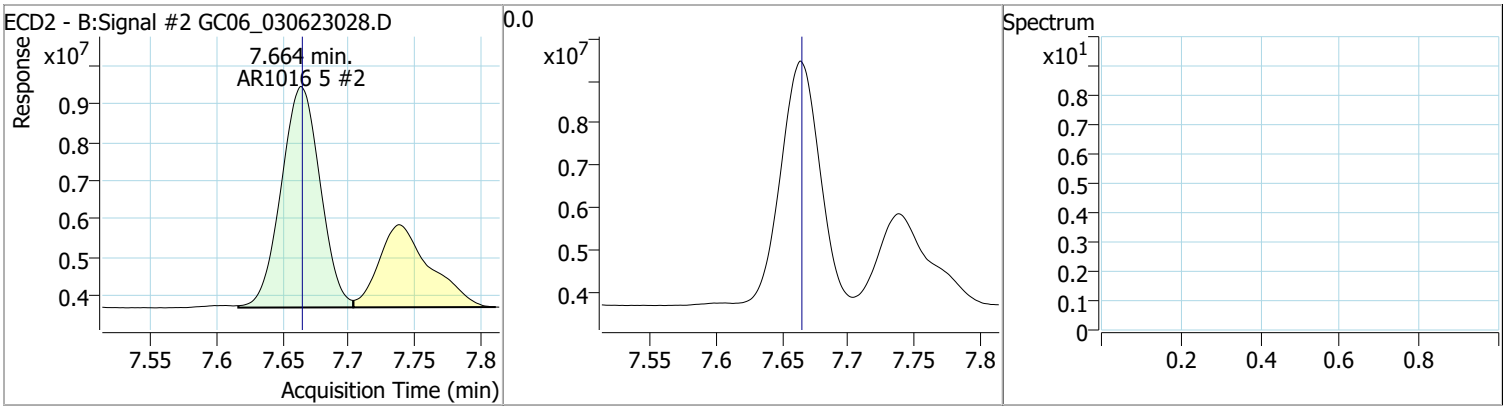
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AR1016 3 #2	1330.2464	6.80	0.00	20223194				



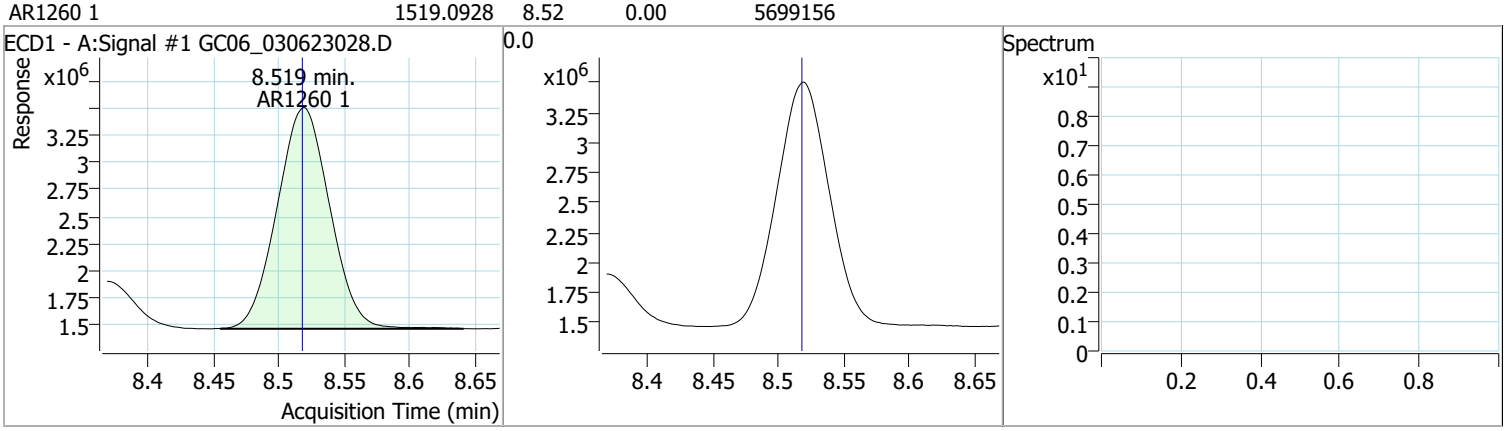
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AR1016 4 #2	1282.1759	6.97	0.00	14397036				



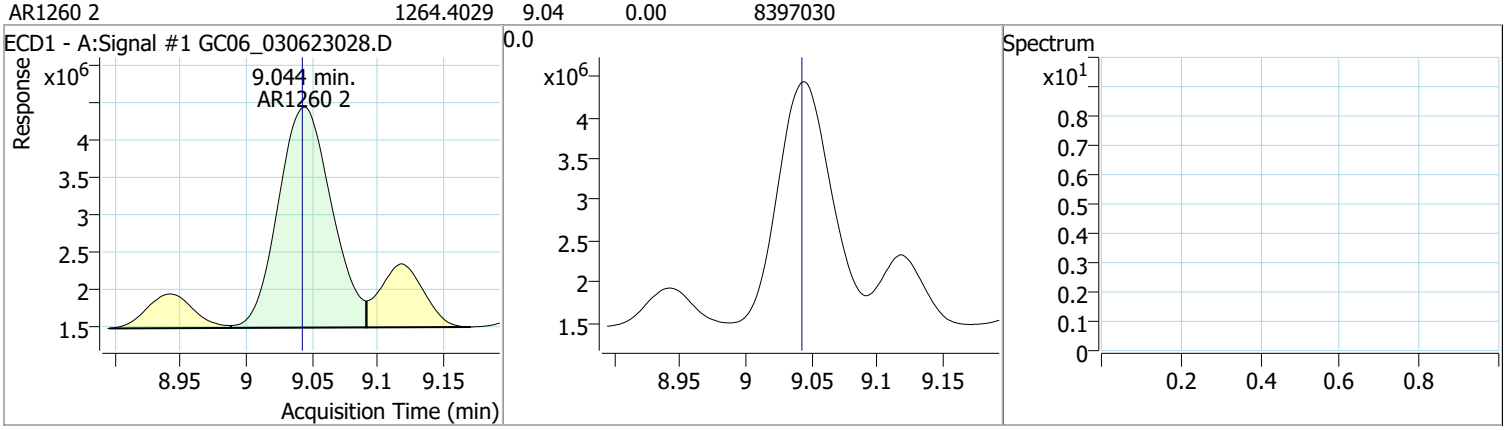
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	1296.3779	7.66	0.00	11834850				



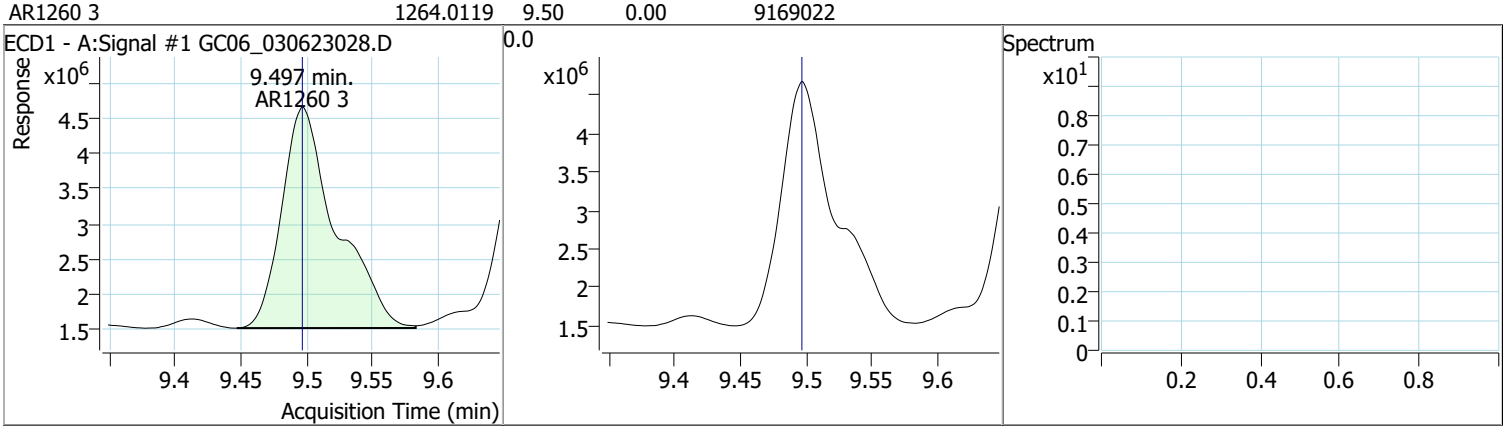
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1519.0928	8.52	0.00	5699156				



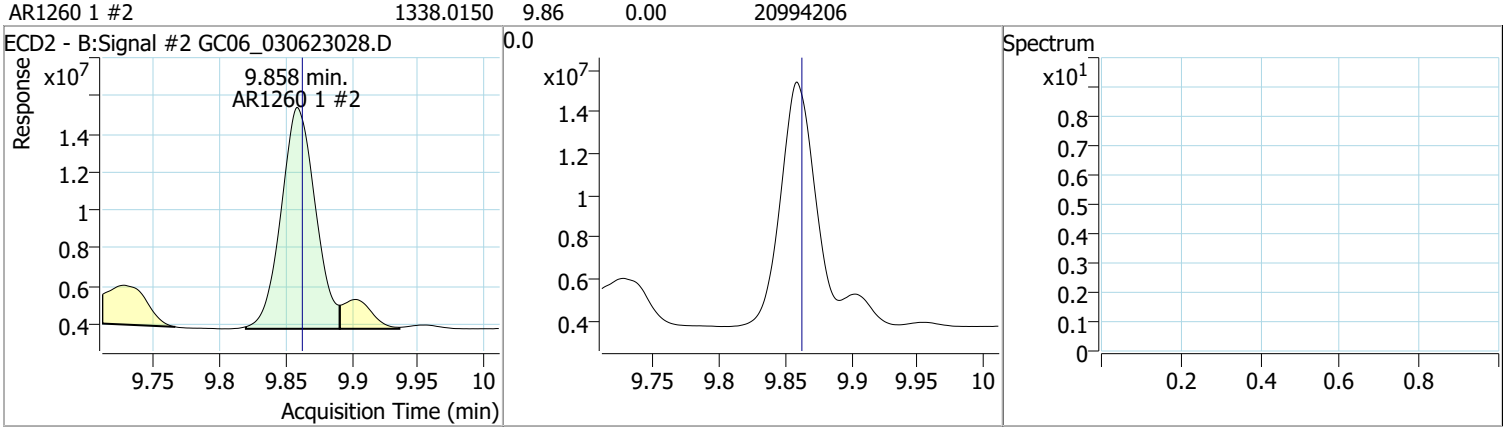
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1264.4029	9.04	0.00	8397030				



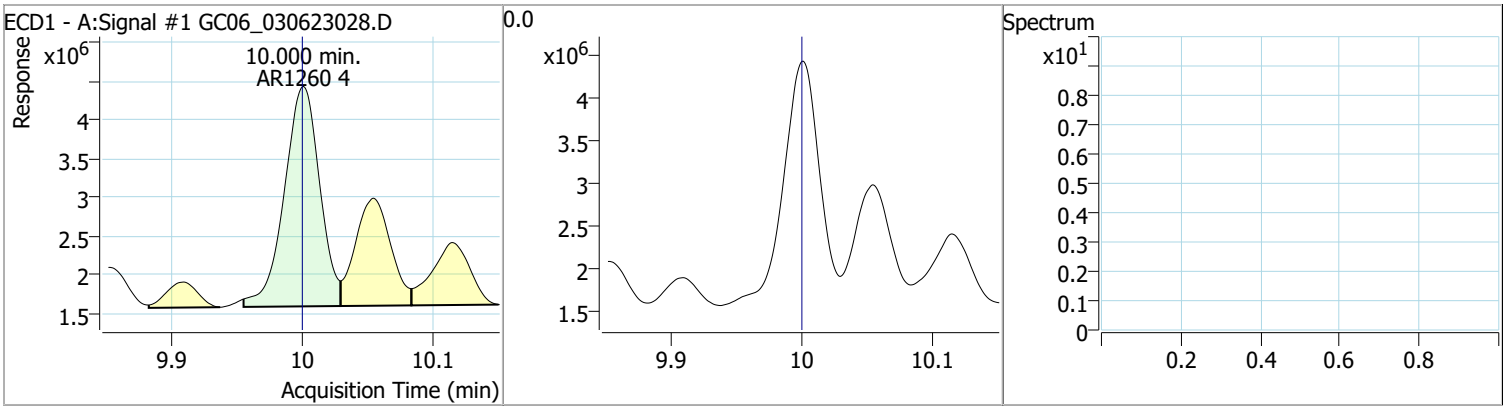
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	1264.0119	9.50	0.00	9169022				



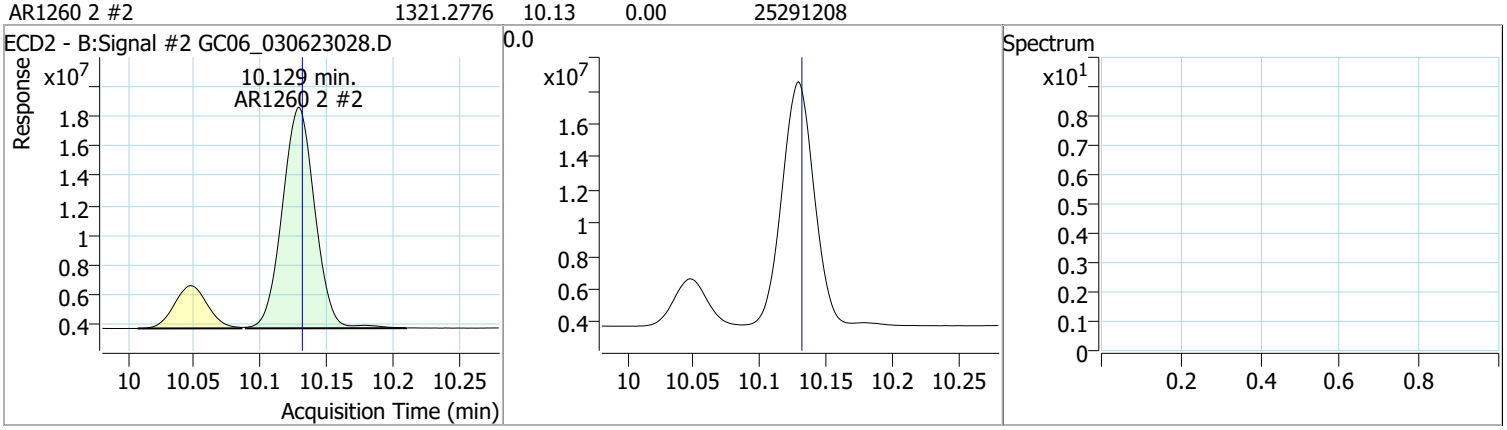
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	1338.0150	9.86	0.00	20994206				



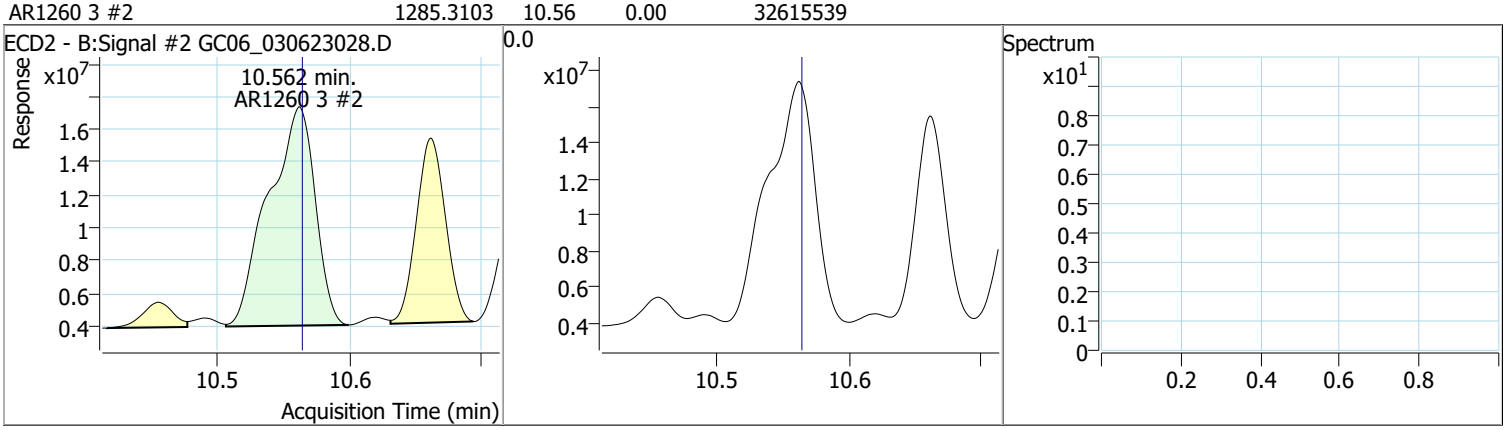
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	1262.7348	10.00	0.00	5388420				



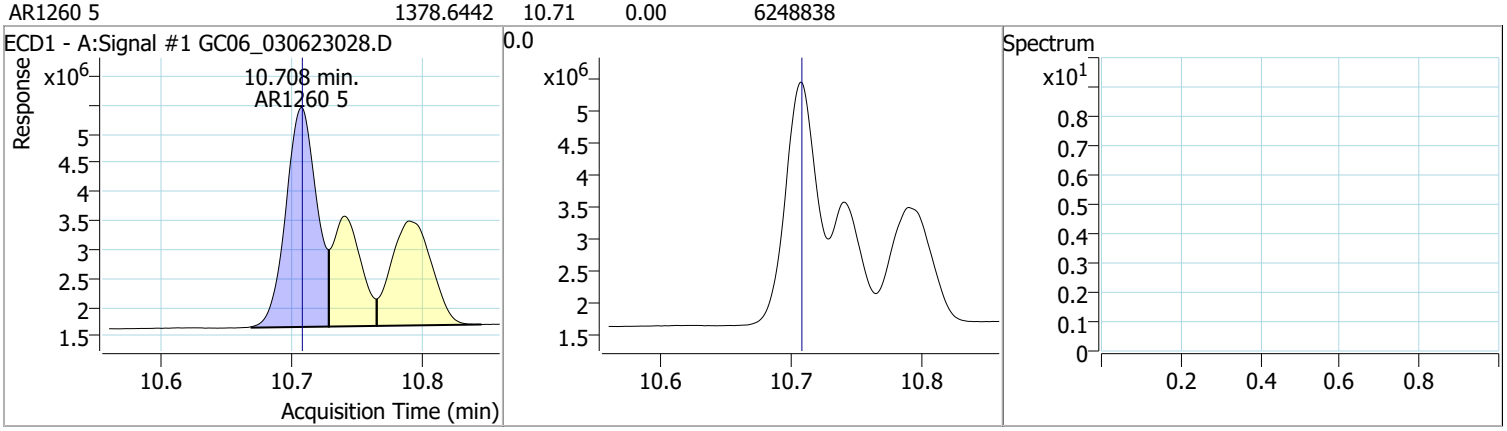
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	1321.2776	10.13	0.00	25291208				



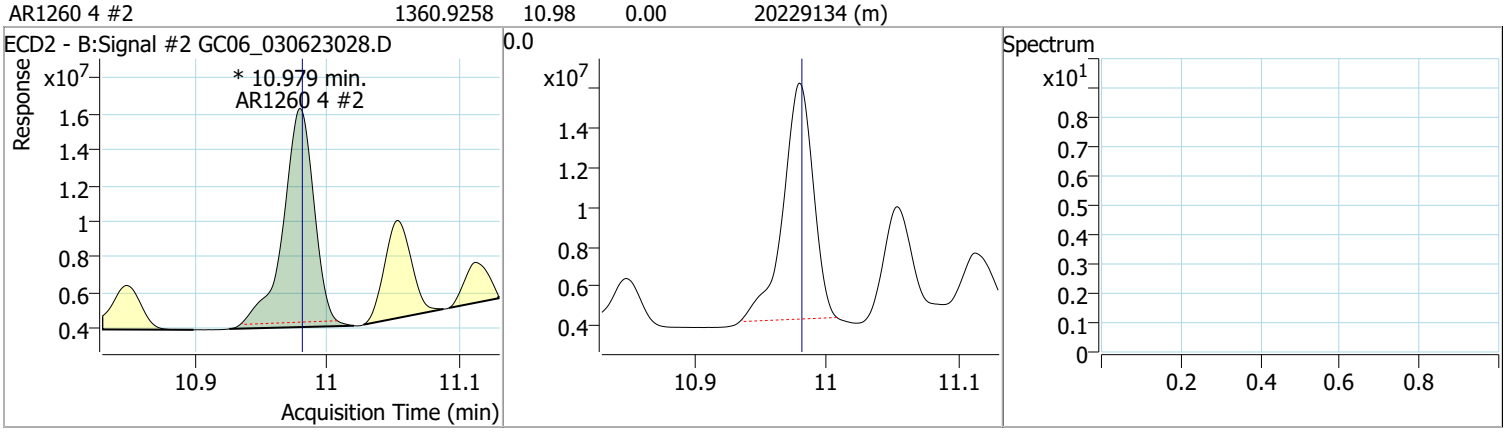
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	1285.3103	10.56	0.00	32615539				



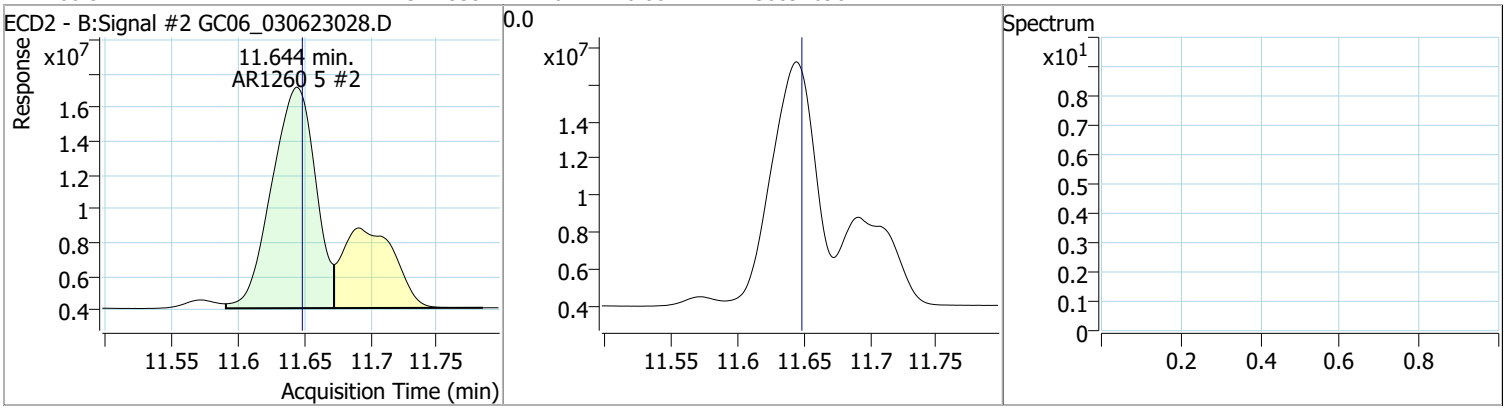
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	1378.6442	10.71	0.00	6248838				



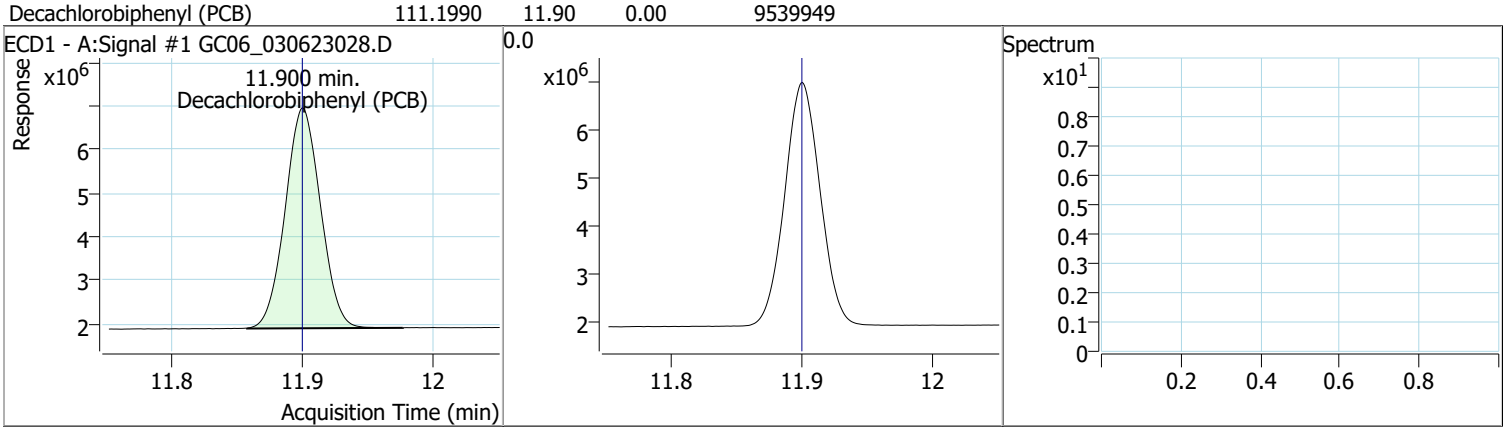
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	1360.9258	10.98	0.00	20229134 (m)				



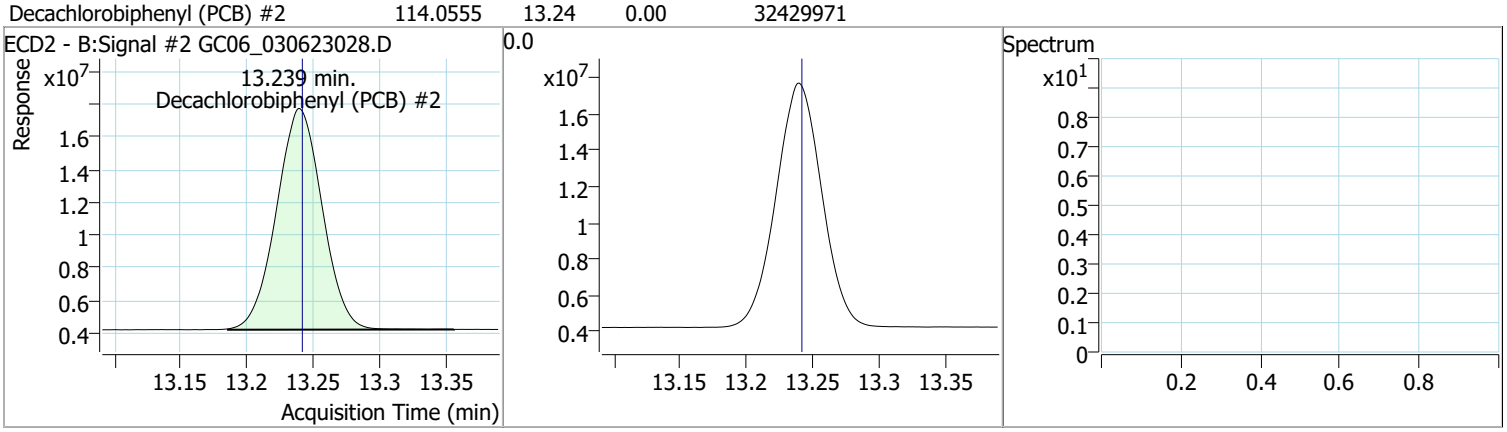
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	1322.5357	11.64	0.00	30091696				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	111.1990	11.90	0.00	9539949				

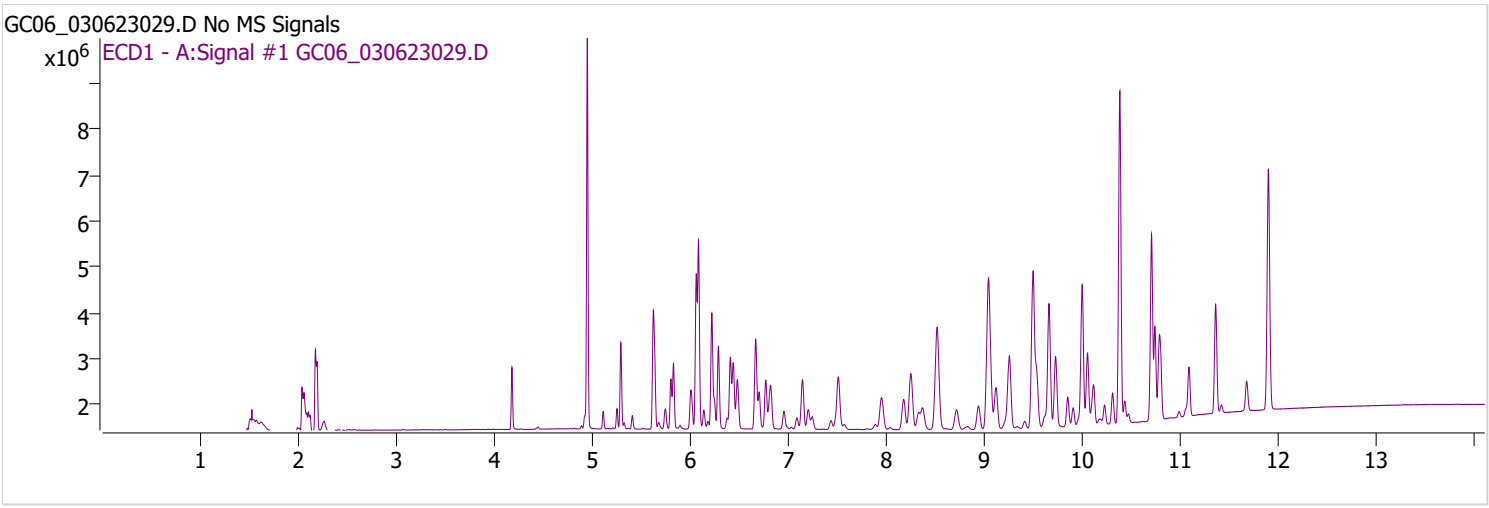


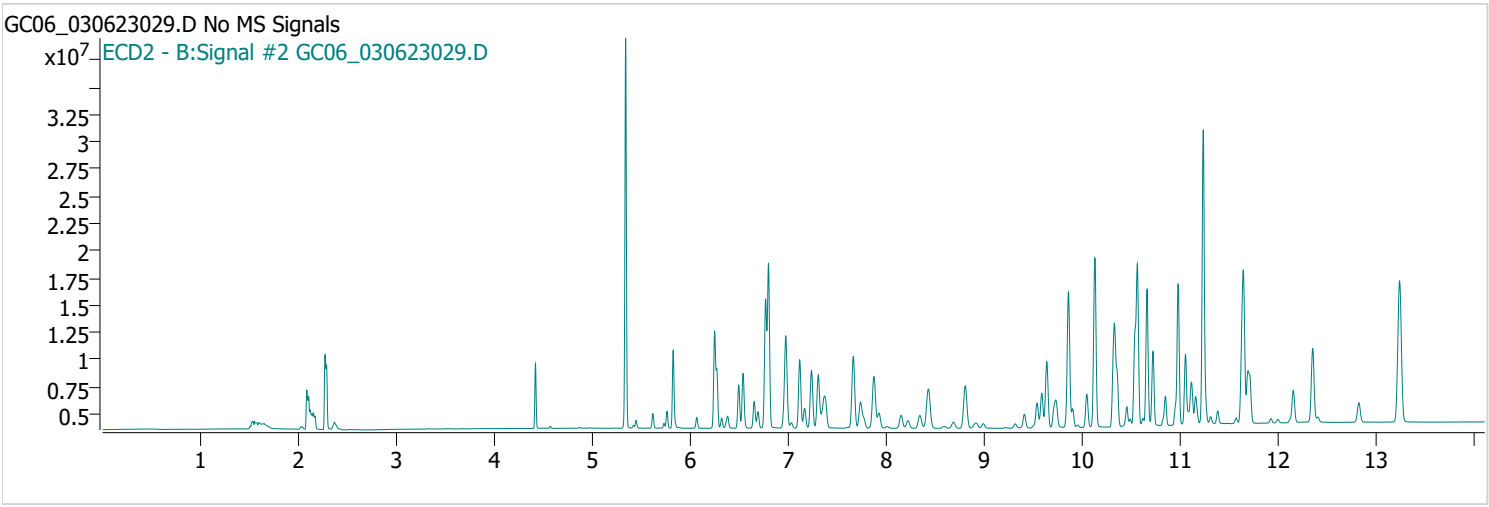
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	114.0555	13.24	0.00	32429971				



Quantitation Results Report (Not Reviewed)

Data File	GC06_030623029.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/6/2023 8:56:55 PM
Sample Name	ICAL, S17805	Instrument	SVOA-GC06
Vial	20	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	030623PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



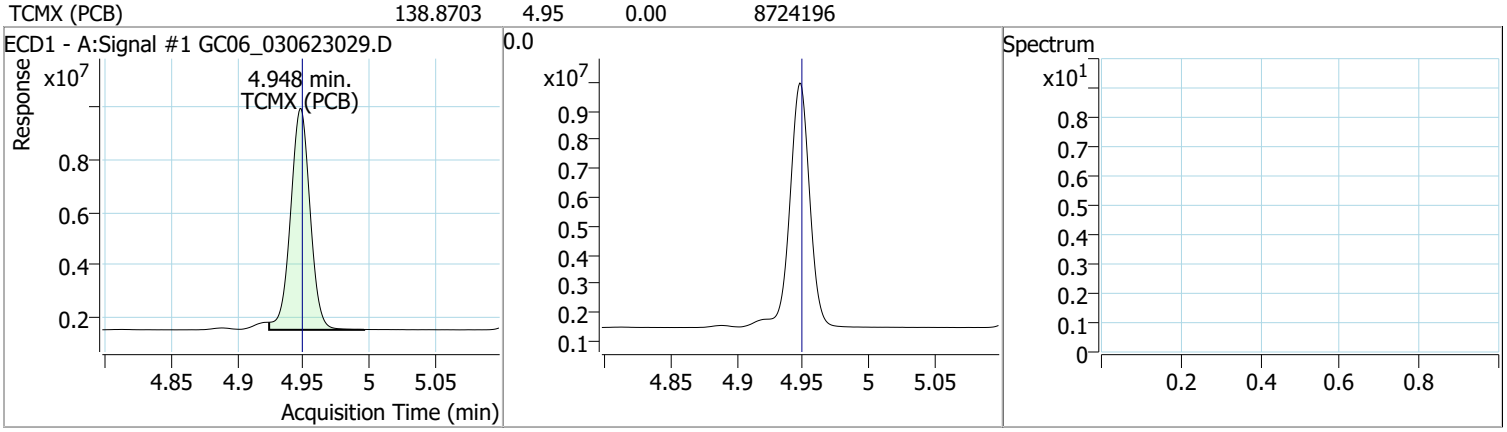


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.178	0.0	1354439.895	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	5504068.289	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.948	0.0	8724196.060	138.8703	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 694.35%		*	
S TCMX (PCB) #2	5.339	0.0	37591838.973	142.2140	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 711.07%		*	
S Decachlorobiphenyl (PCB)	11.900	0.0	9759191.550	121.1516	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 605.76%		*	
S Decachlorobiphenyl (PCB) #2	13.240	0.0	33209290.941	125.4057	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 627.03%		*	
Target Compounds							QValue

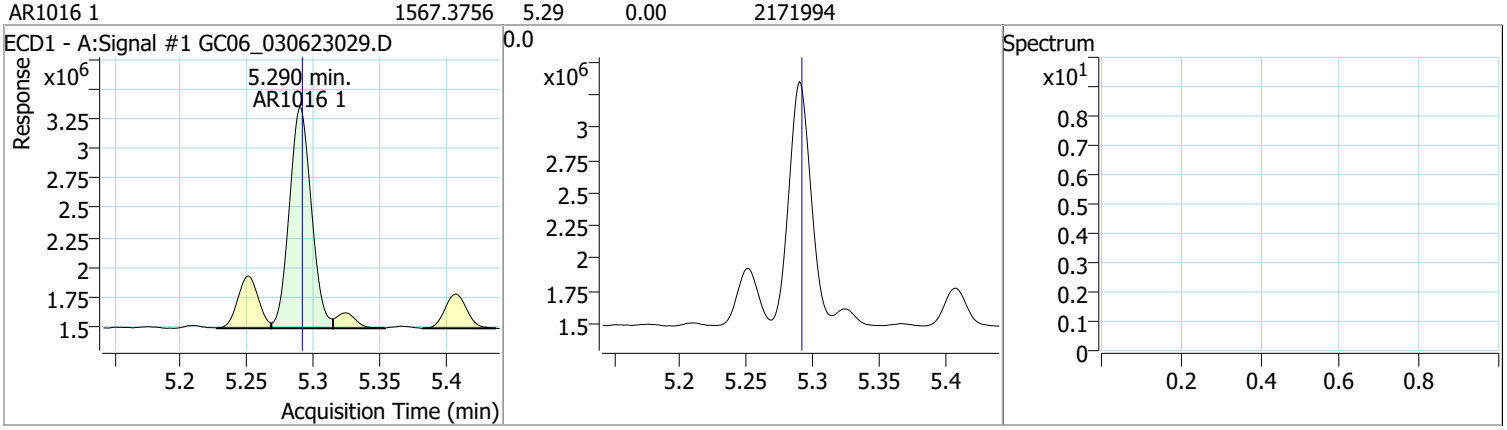
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.290	0.0	2171994.456	1567.3756	ng/ml		100
T AR1016 2	5.623	0.0	4423355.835	2005.7644	ng/ml		100
T AR1016 1 #2	5.824	0.0	8774614.749	1674.1269	ng/ml		100
T AR1016 3	6.083	0.0	5451963.720	2001.3725	ng/ml		100
T AR1016 4	6.219	0.0	4159113.012	1536.6453	ng/ml		100
T AR1016 2 #2	6.248	0.0	18495441.647	1594.2101	ng/ml		100
T AR1016 5	6.408	0.0	2358098.855	1530.2062	ng/ml		100
T AR1016 3 #2	6.798	0.0	23492651.011	1659.2142	ng/ml		100
T AR1016 4 #2	6.973	0.0	16692881.806	1596.2243	ng/ml		100
T AR1016 5 #2	7.663	0.0	13494025.793	1587.0788	ng/ml		100
T AR1260 1	8.518	0.0	6196552.424	1980.9295	ng/ml		100
T AR1260 2	9.044	0.0	9039470.417	1449.6500	ng/ml		100
T AR1260 3	9.499	0.0	9776872.623	1435.4515	ng/ml		100
T AR1260 1 #2	9.859	0.0	23307638.967	1594.9531	ng/ml		100
T AR1260 4	9.999	0.0	5760509.446	1437.7124	ng/ml		100
T AR1260 2 #2	10.129	0.0	27308234.138	1531.8146	ng/ml		100
T AR1260 3 #2	10.563	0.0	35290139.798	1493.2238	ng/ml		100
T AR1260 5	10.708	0.0	6622038.943	1555.9839	ng/ml		100
T AR1260 4 #2	10.978	0.0	21934758.275	1584.4484	ng/ml	m	100
T AR1260 5 #2	11.643	0.0	31648042.647	1493.4672	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

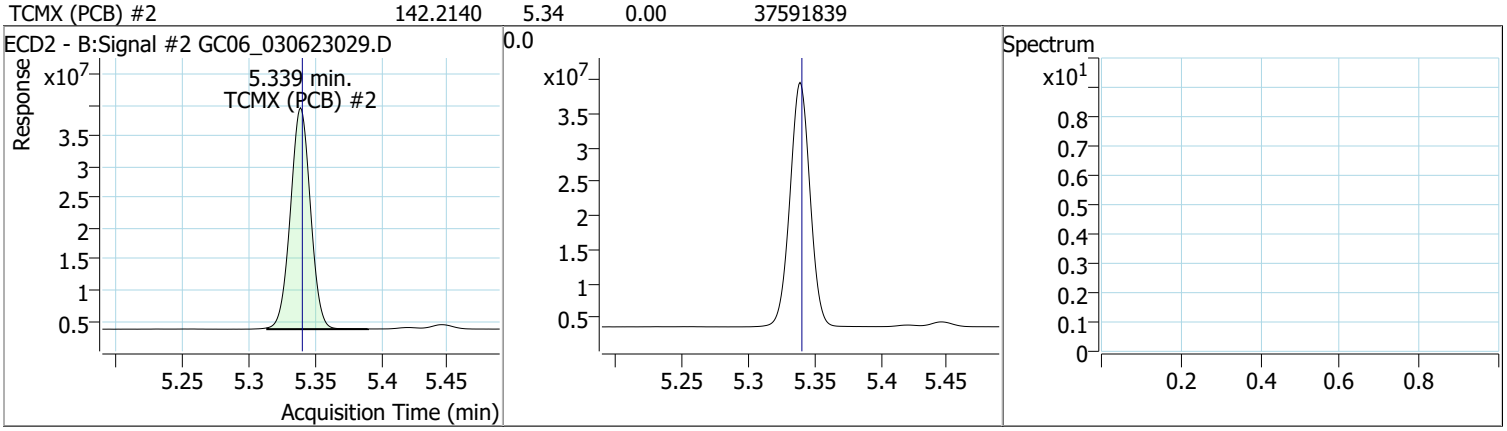
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	138.8703	4.95	0.00	8724196				



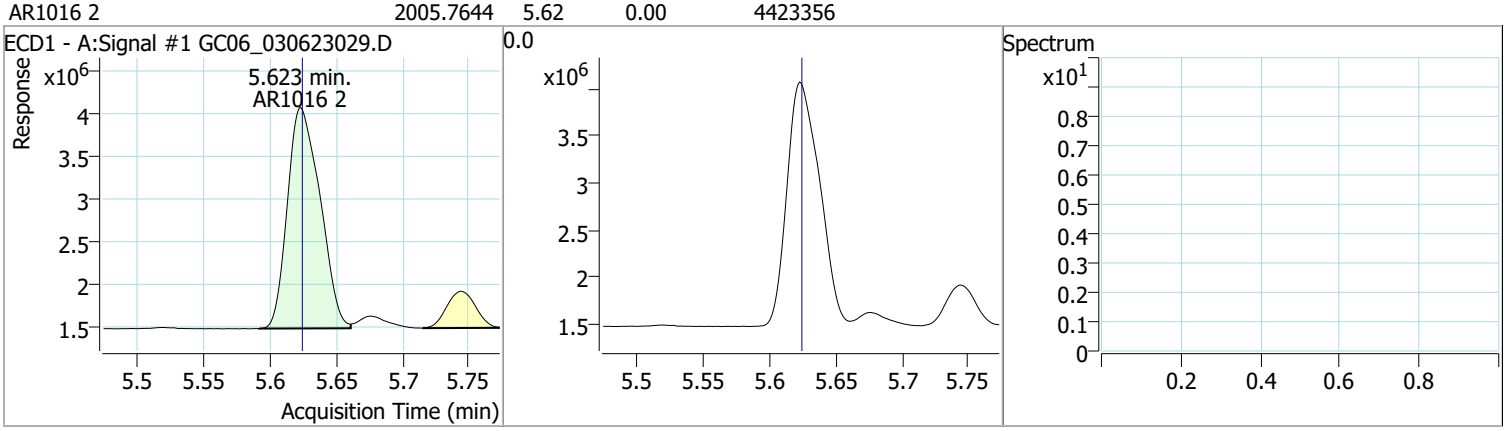
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	1567.3756	5.29	0.00	2171994				



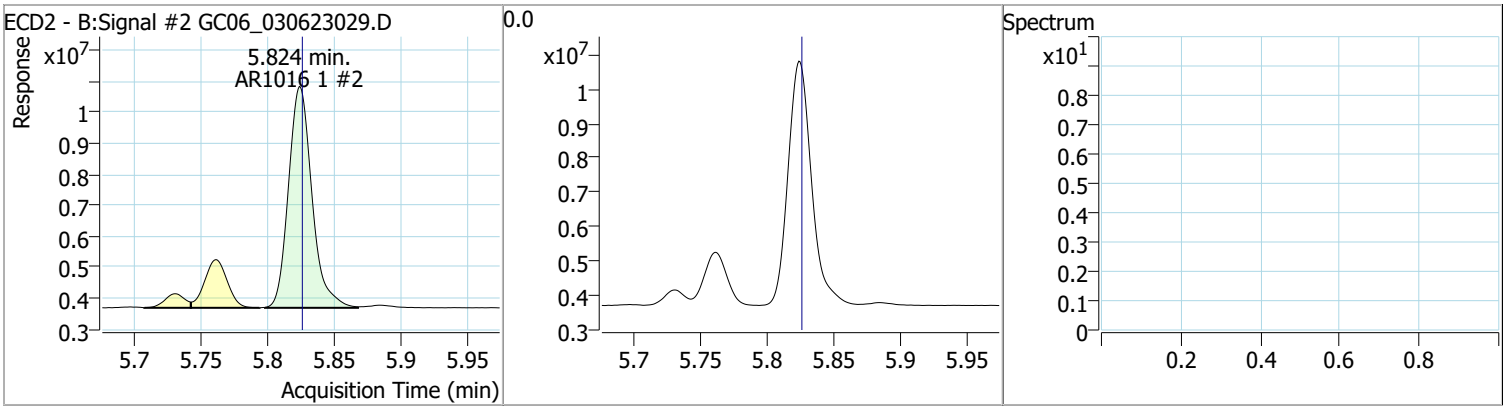
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	142.2140	5.34	0.00	37591839				



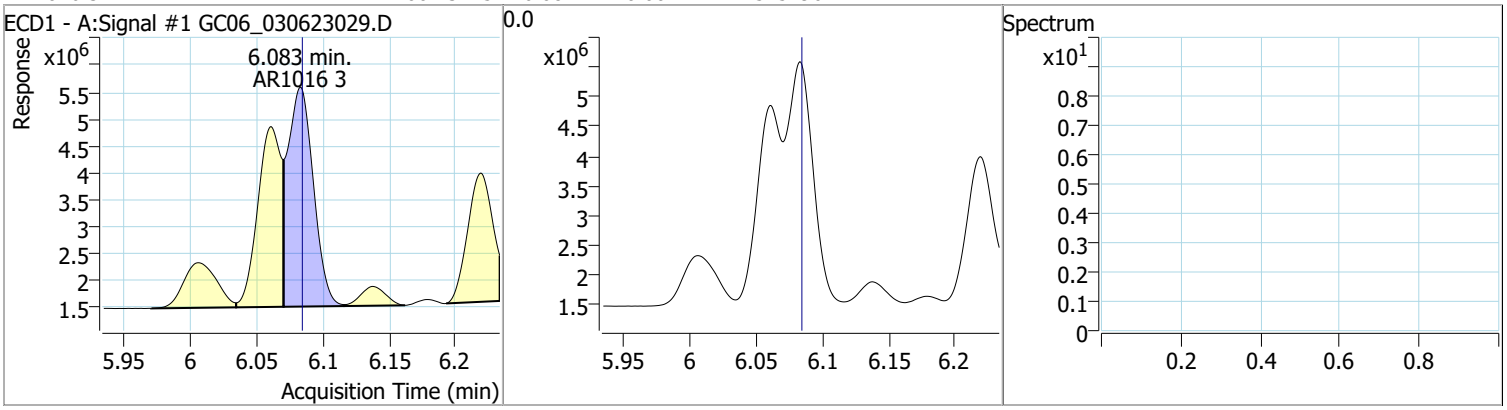
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	2005.7644	5.62	0.00	4423356				



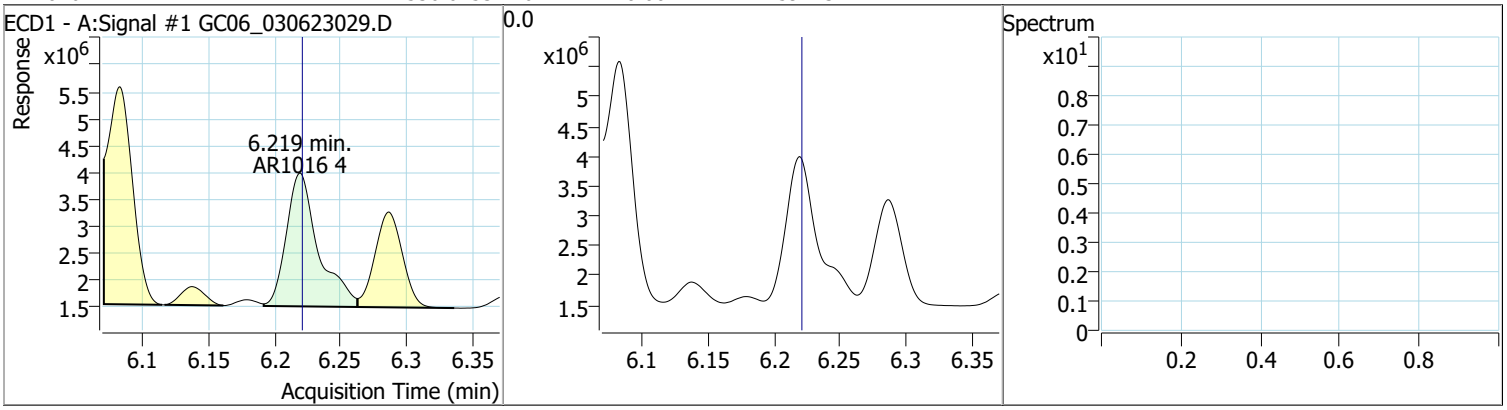
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1674.1269	5.82	0.00	8774615				



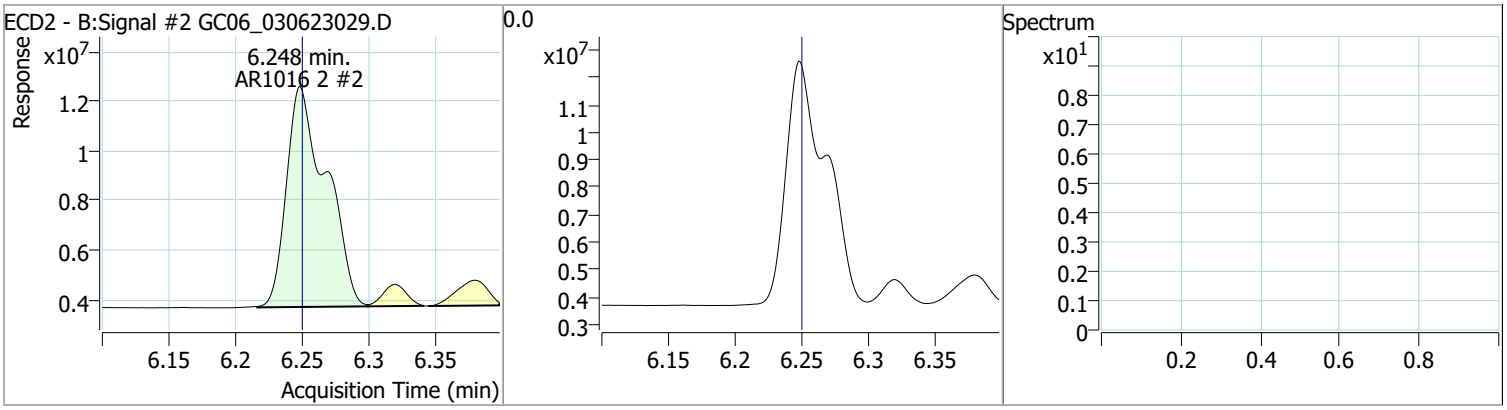
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	2001.3725	6.08	0.00	5451964				



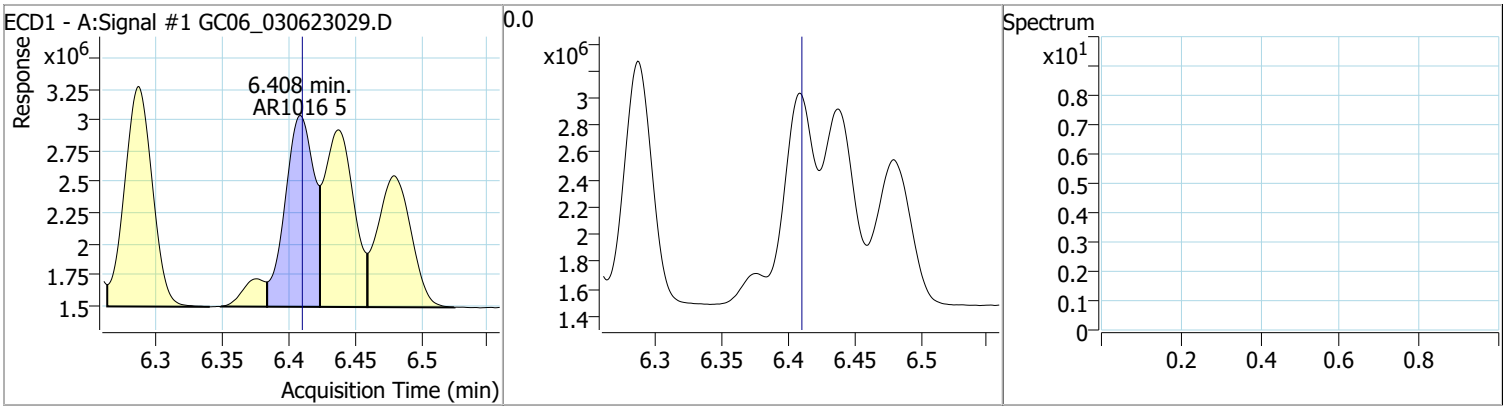
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1536.6453	6.22	0.00	4159113				



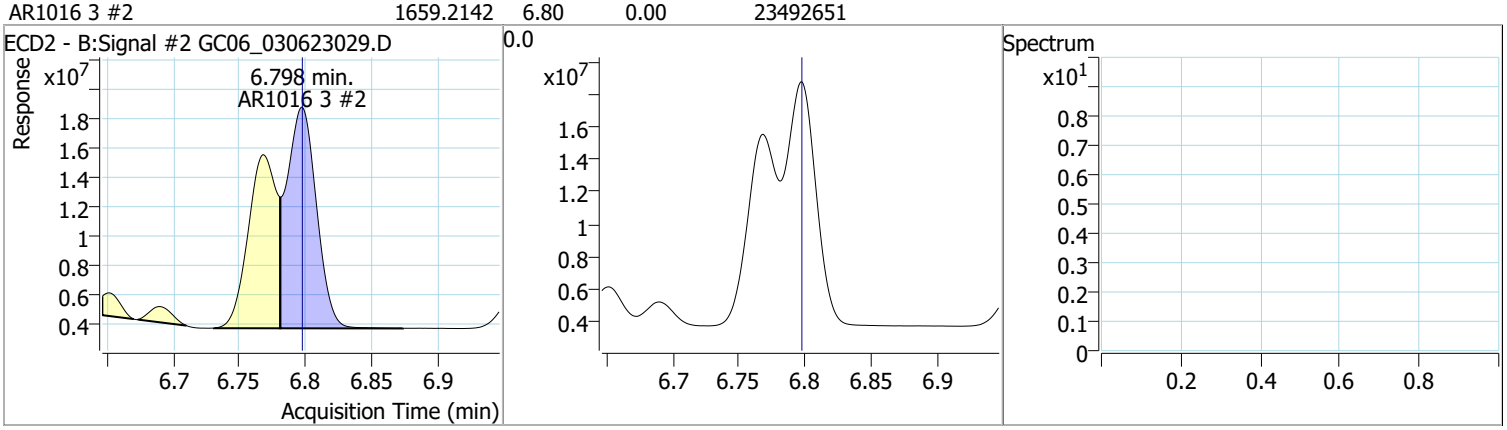
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AR1016 2 #2	1594.2101	6.25	0.00	18495442				



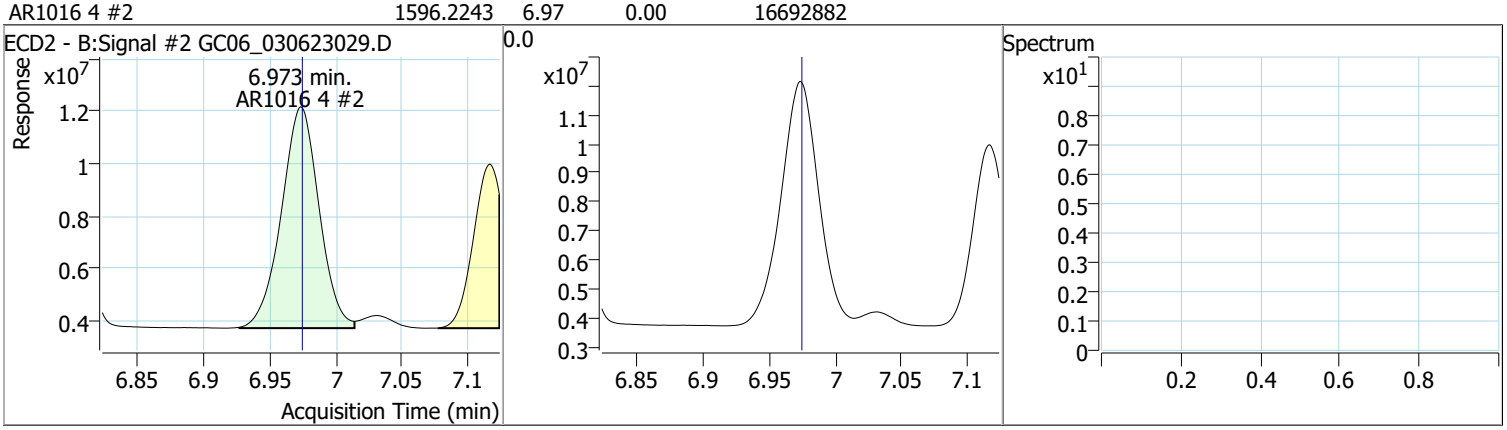
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	1530.2062	6.41	0.00	2358099				



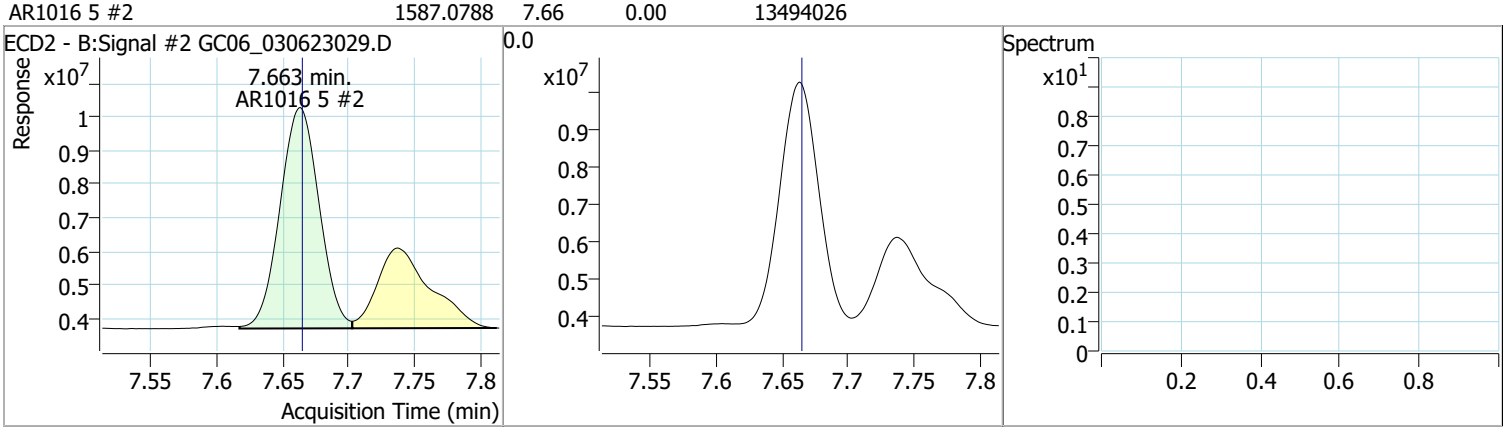
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	1659.2142	6.80	0.00	23492651				



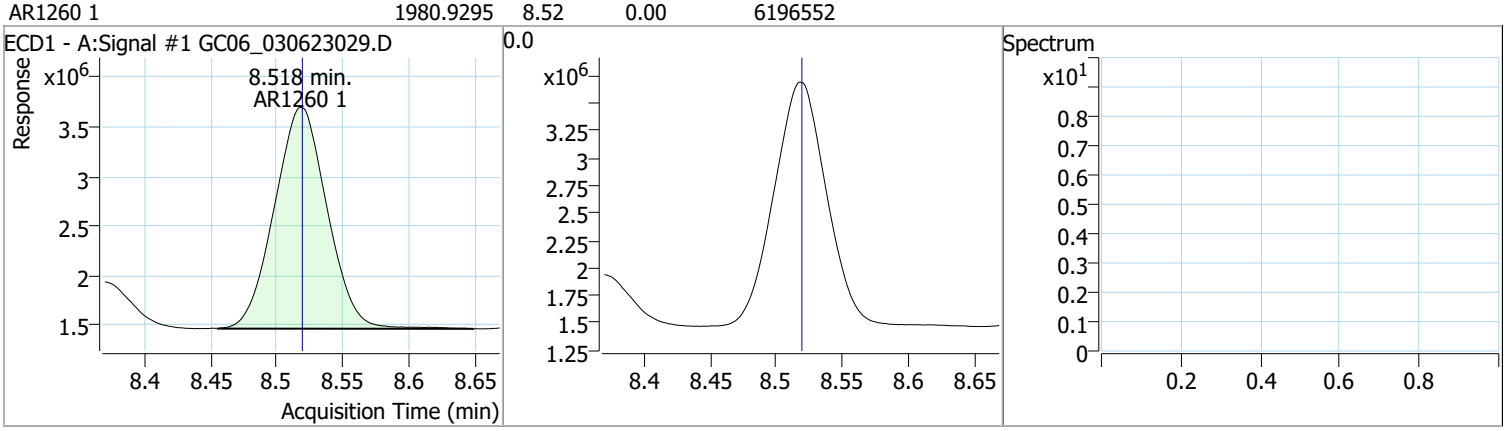
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AR1016 4 #2	1596.2243	6.97	0.00	16692882				



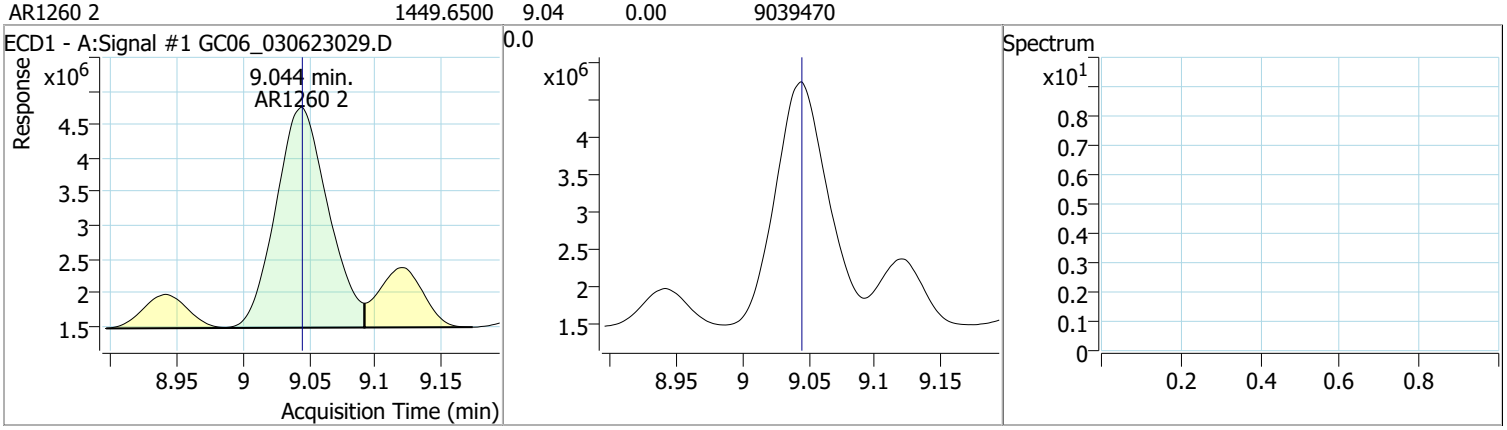
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	1587.0788	7.66	0.00	13494026				



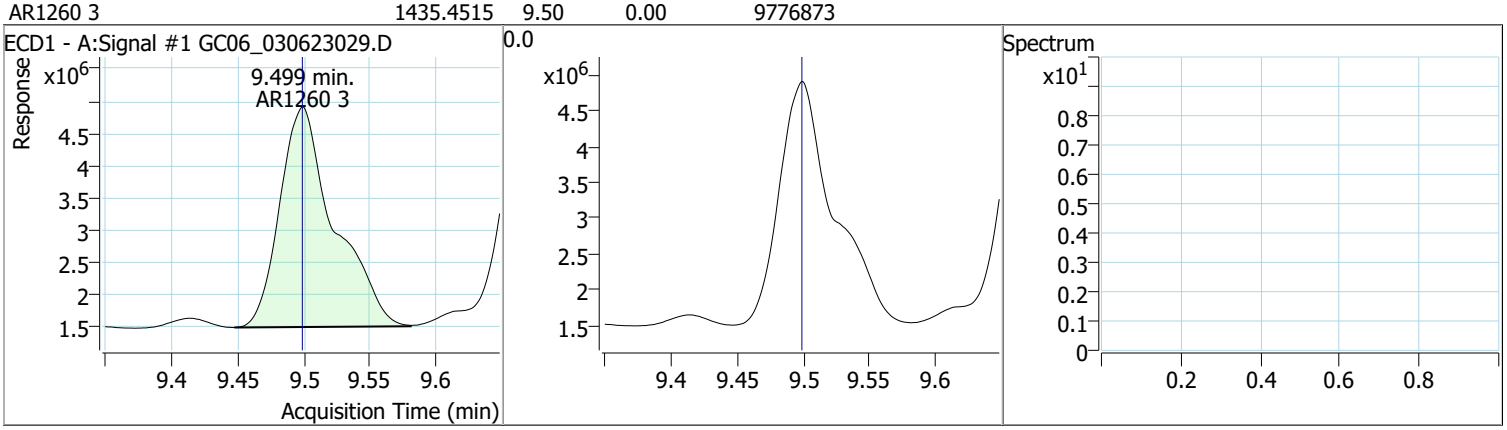
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1980.9295	8.52	0.00	6196552				



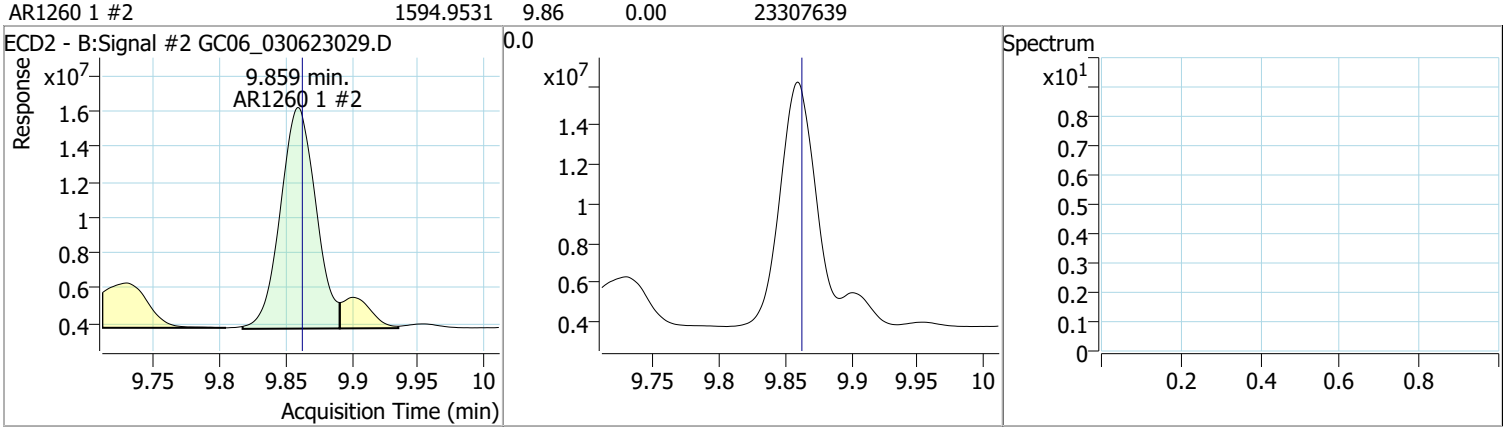
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1449.6500	9.04	0.00	9039470				



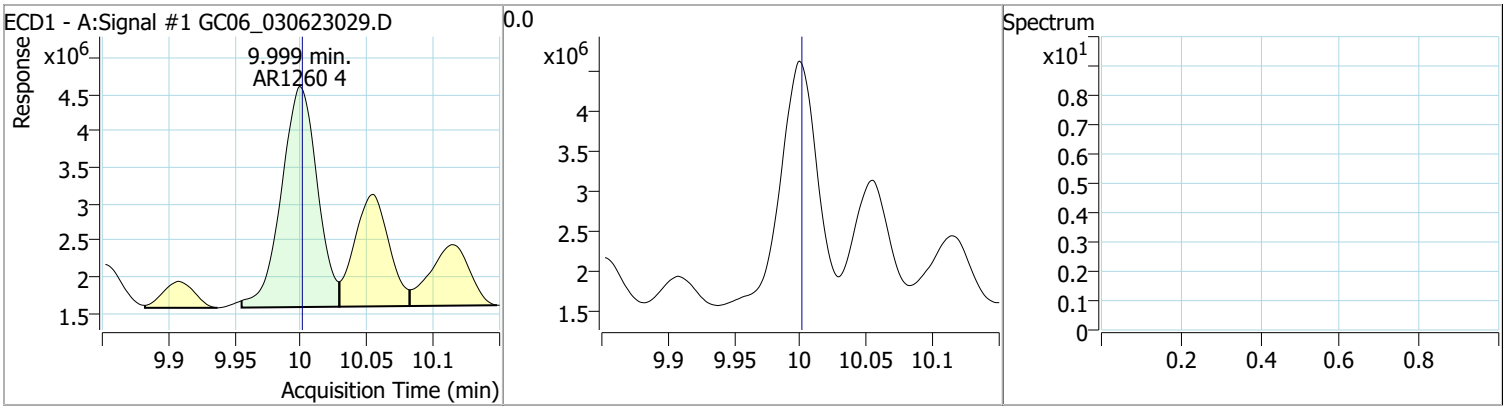
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	1435.4515	9.50	0.00	9776873				



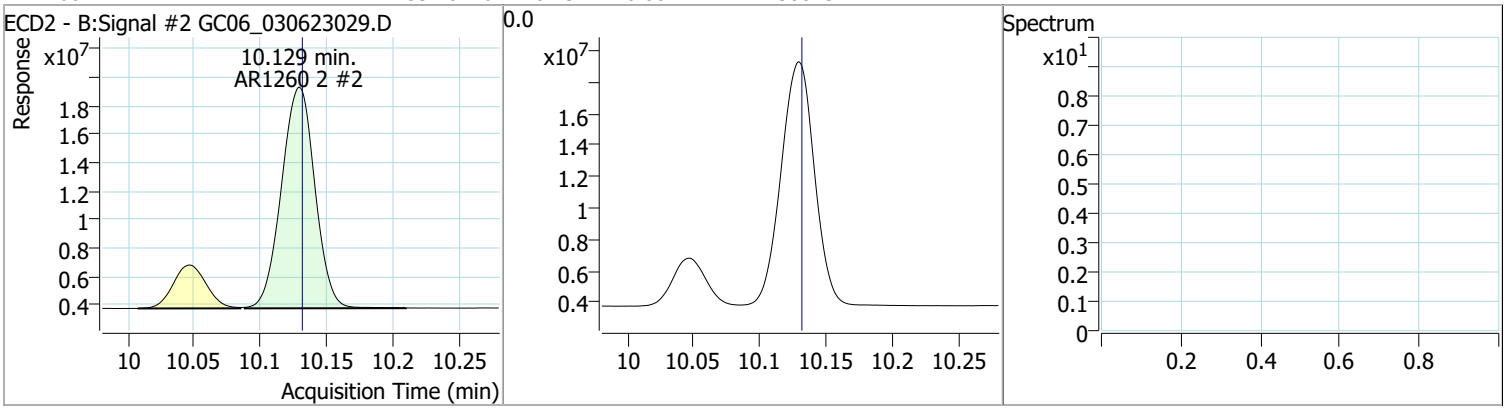
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	1594.9531	9.86	0.00	23307639				



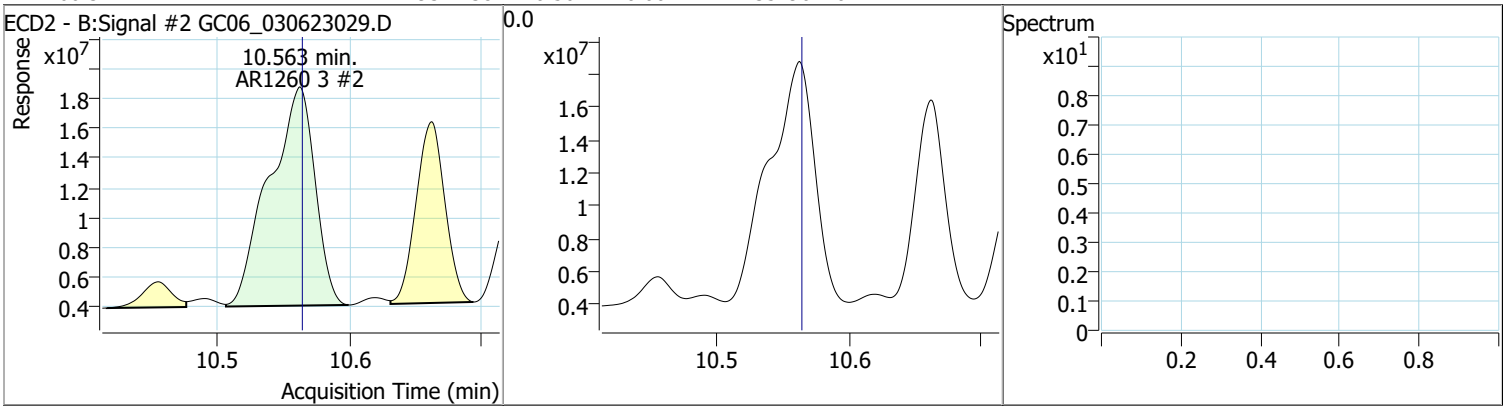
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AR1260 4	1437.7124	10.00	0.00	5760509				



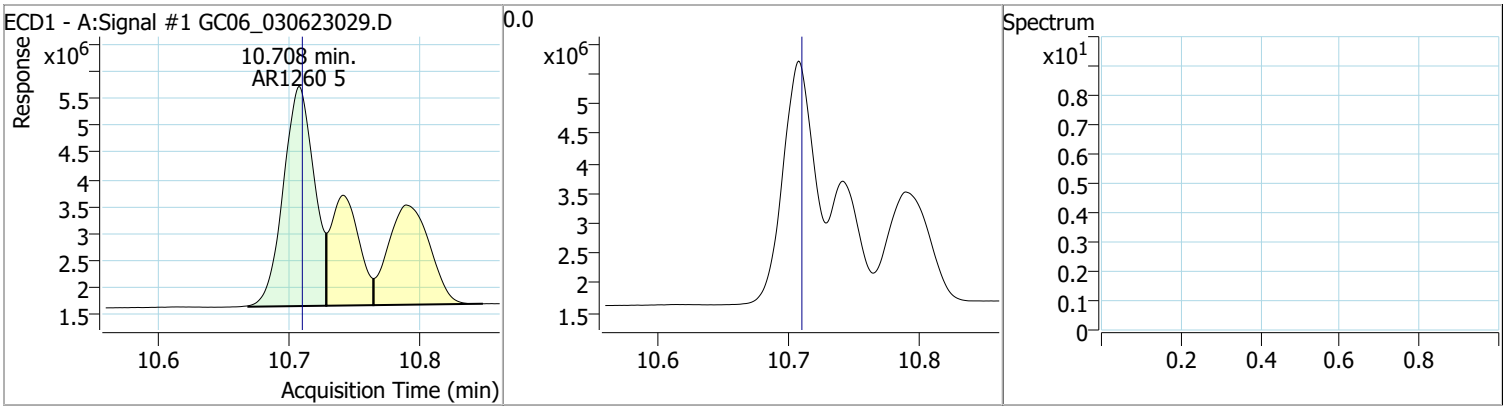
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AR1260 2 #2	1531.8146	10.13	0.00	27308234				



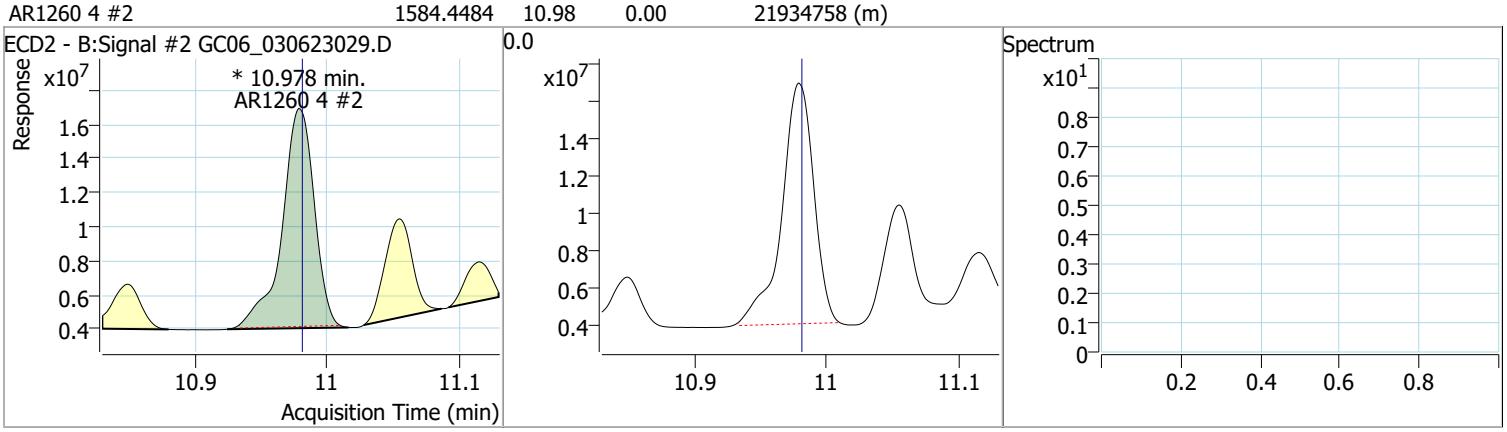
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	1493.2238	10.56	0.00	35290140				



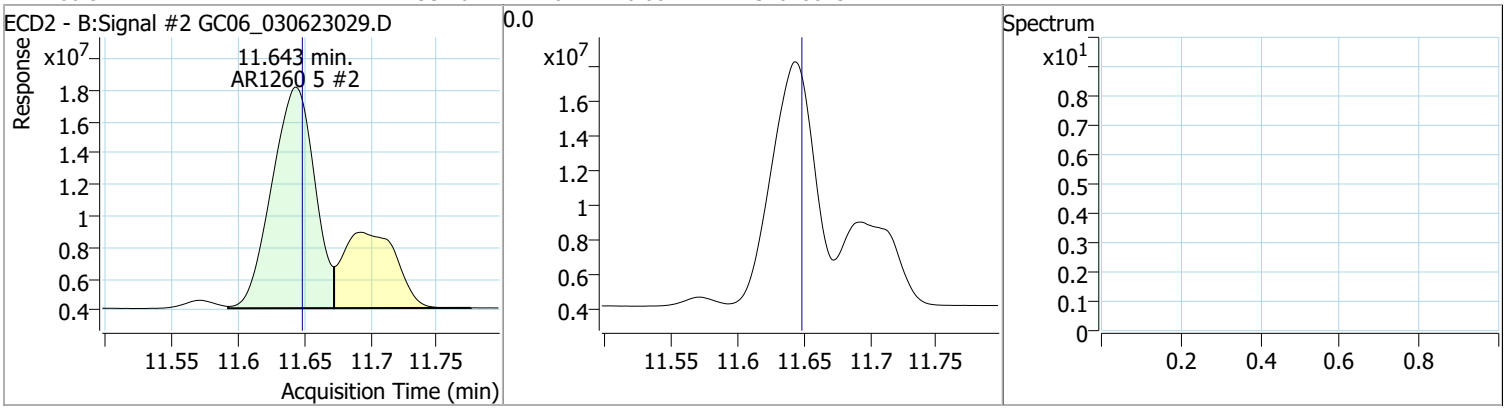
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	1555.9839	10.71	0.00	6622039				



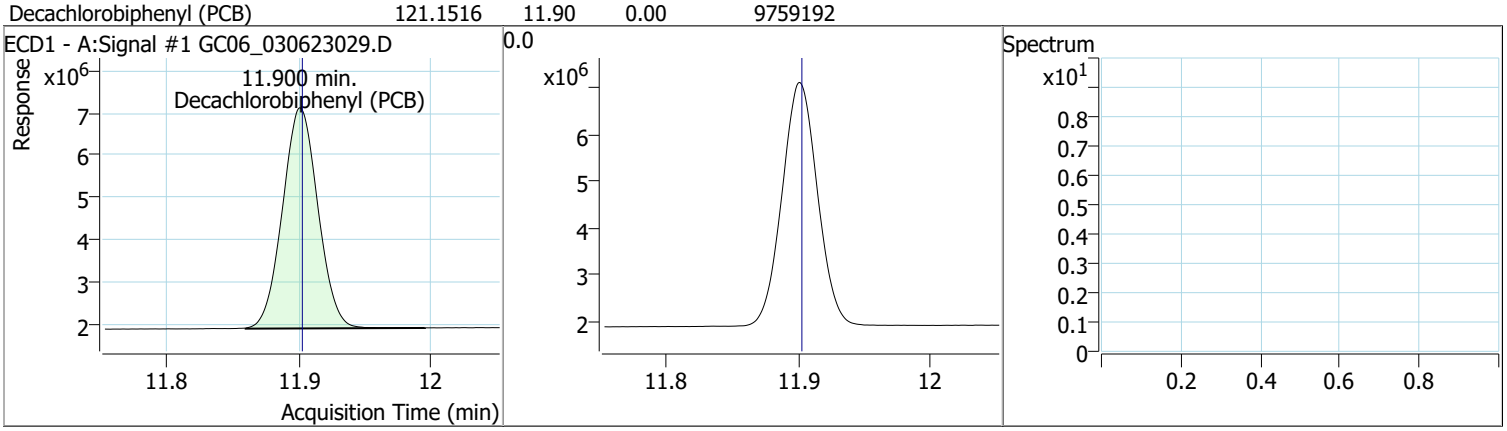
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	1584.4484	10.98	0.00	21934758 (m)				



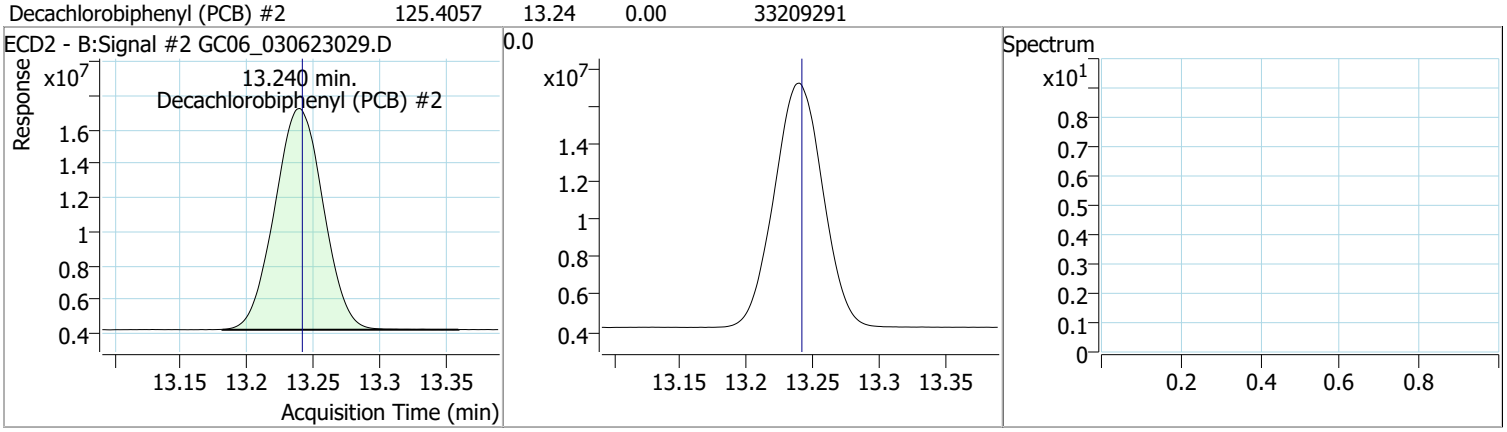
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	1493.4672	11.64	0.00	31648043				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	121.1516	11.90	0.00	9759192				

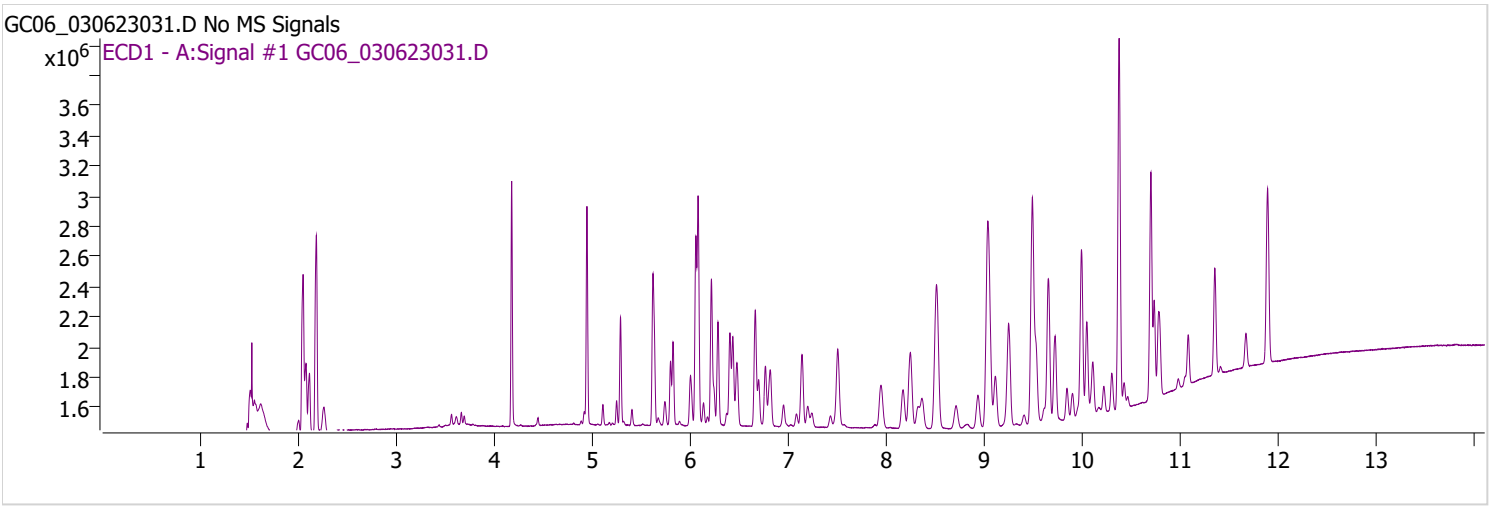


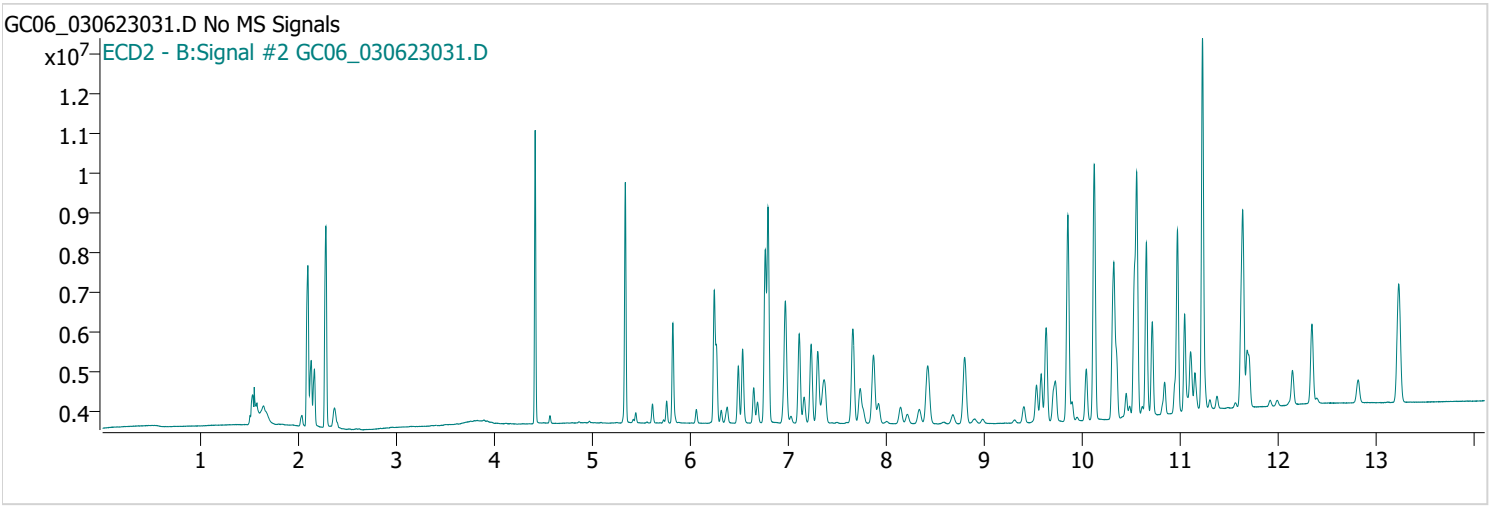
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	125.4057	13.24	0.00	33209291				



Quantitation Results Report (Not Reviewed)

Data File	GC06_030623031.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/6/2023 9:33:35 PM
Sample Name	ICV, S18065	Instrument	SVOA-GC06
Vial	21	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	030623PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



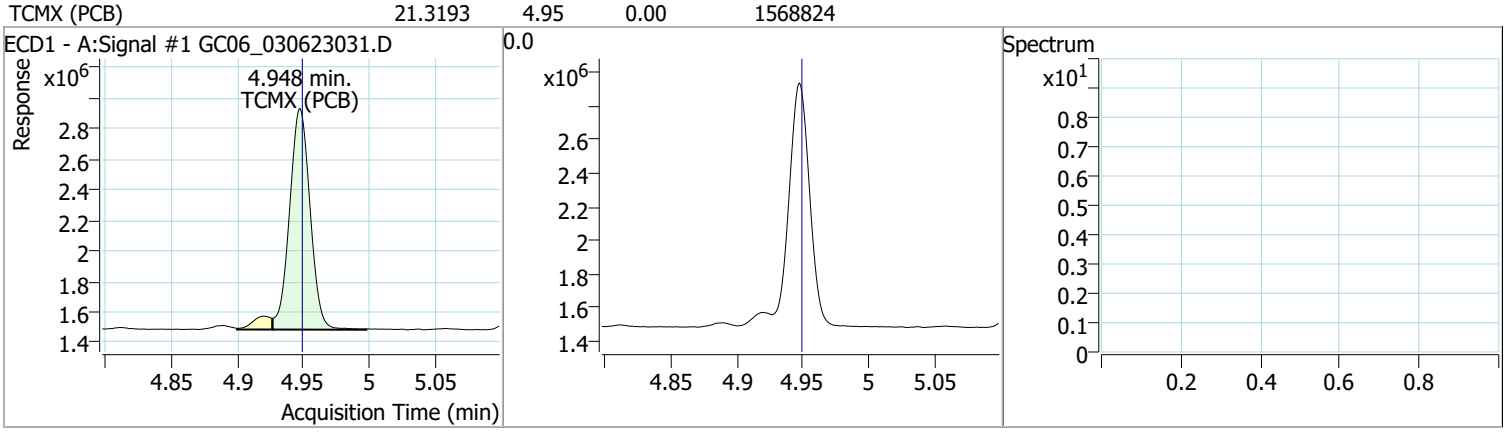


Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.178	0.0	1586516.893	20.0000	ng/ml	-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.418	0.0	6574882.378	20.0000	ng/ml	0.000
System Monitoring Compounds						
S TCMX (PCB)	4.948	0.0	1568823.876	21.3193	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 106.60%		
S TCMX (PCB) #2	5.339	0.0	6528988.414	20.6771	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 103.39%		
S Decachlorobiphenyl (PCB)	11.900	0.0	2202434.415	23.3417	ng/ml	-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 116.71%		
S Decachlorobiphenyl (PCB) #2	13.239	0.0	7391146.168	23.3650	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 116.82%		
Target Compounds						QValue

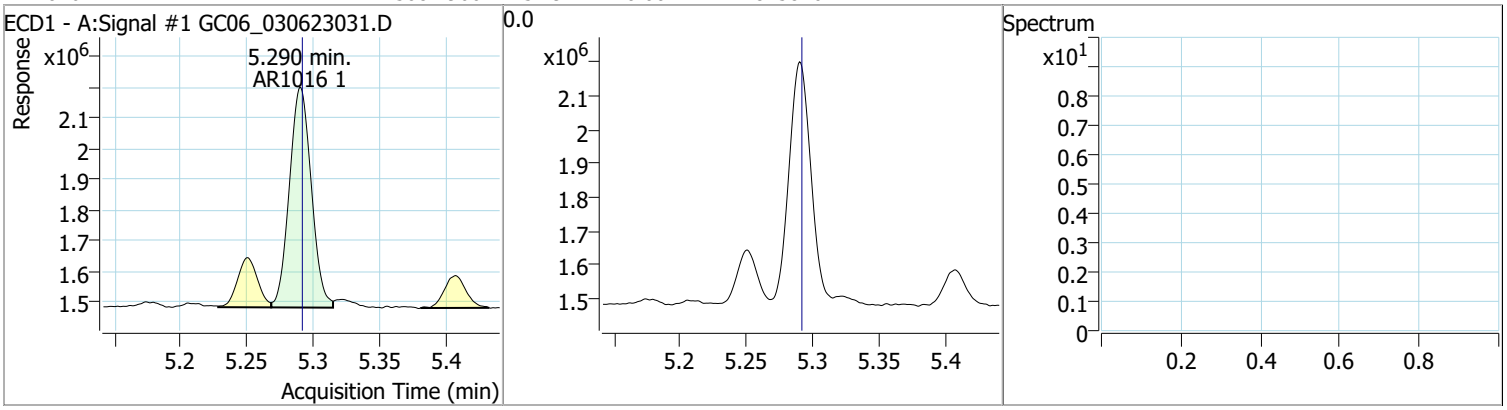
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.290	0.0	825875.855	508.7966	ng/ml		100
T AR1016 2	5.623	0.0	1720211.800	525.5935	ng/ml		100
T AR1016 1 #2	5.825	0.0	3209209.874	512.5713	ng/ml		100
T AR1016 3	6.083	0.0	2026867.482	496.8806	ng/ml		100
T AR1016 4	6.218	0.0	1605068.541	506.2692	ng/ml		100
T AR1016 2 #2	6.248	0.0	6866212.218	495.4432	ng/ml		100
T AR1016 5	6.408	0.0	920052.606	509.7012	ng/ml		100
T AR1016 3 #2	6.797	0.0	8326449.674	492.2958	ng/ml		100
T AR1016 4 #2	6.974	0.0	6096413.387	488.0146	ng/ml		100
T AR1016 5 #2	7.663	0.0	4932276.698	485.6241	ng/ml		100
T AR1260 1	8.518	0.0	2650569.242	514.4130	ng/ml		100
T AR1260 2	9.043	0.0	3920450.947	536.7490	ng/ml		100
T AR1260 3	9.498	0.0	4191470.032	525.3757	ng/ml		100
T AR1260 1 #2	9.860	0.0	9370849.612	536.8147	ng/ml		100
T AR1260 4	9.999	0.0	2106551.205	448.8469	ng/ml		100
T AR1260 2 #2	10.129	0.0	11154416.851	523.7877	ng/ml		100
T AR1260 3 #2	10.563	0.0	14603214.733	517.2683	ng/ml		100
T AR1260 5	10.708	0.0	2501451.640	501.7883	ng/ml		100
T AR1260 4 #2	10.979	0.0	7715844.300	466.5783	ng/ml	m	100
T AR1260 5 #2	11.645	0.0	11014147.027	435.1065	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

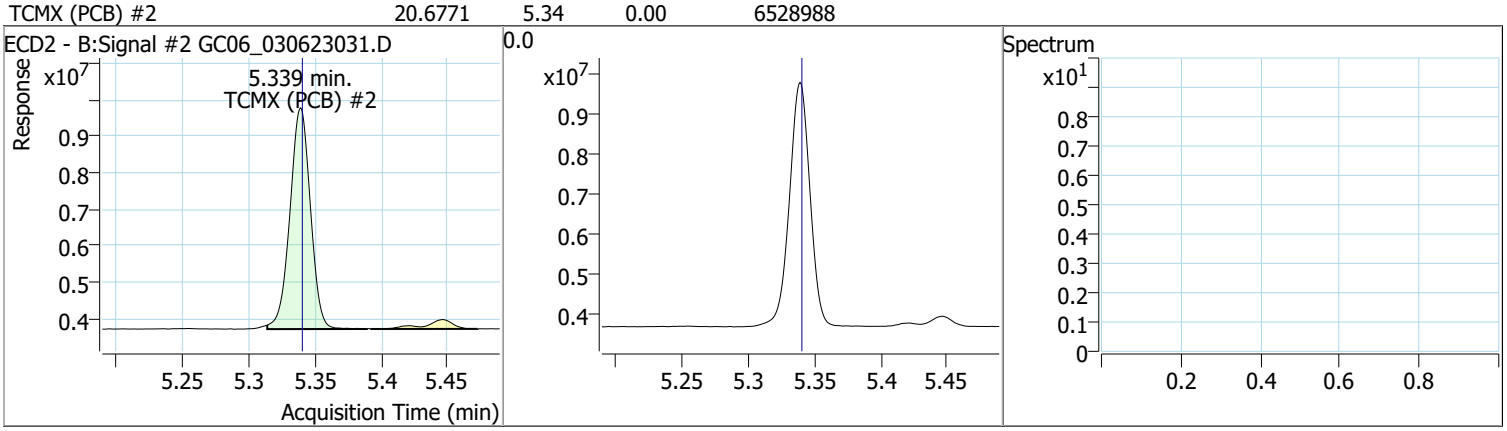
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	21.3193	4.95	0.00	1568824				



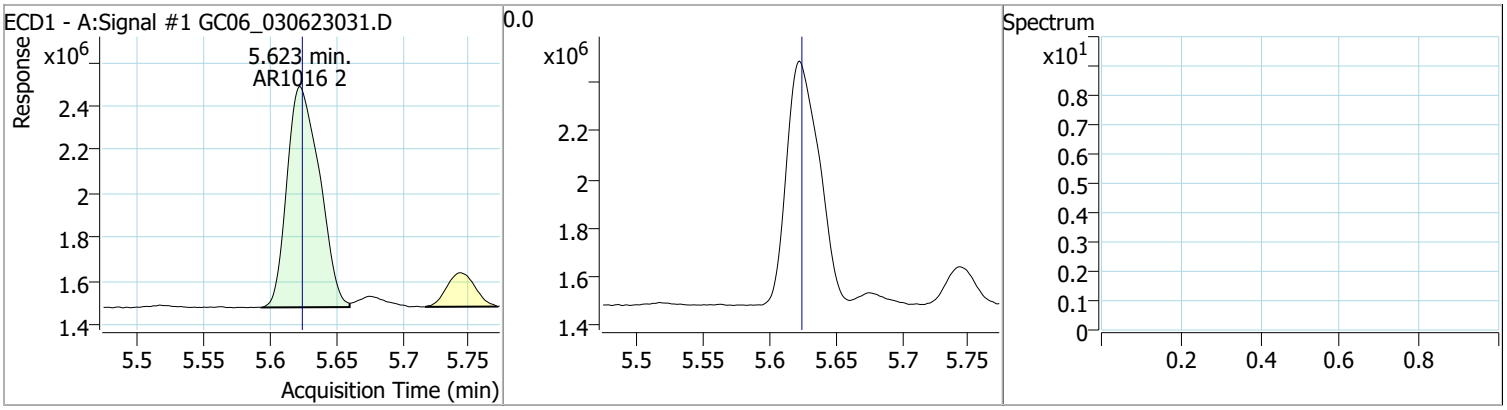
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	508.7966	5.29	0.00	825876				



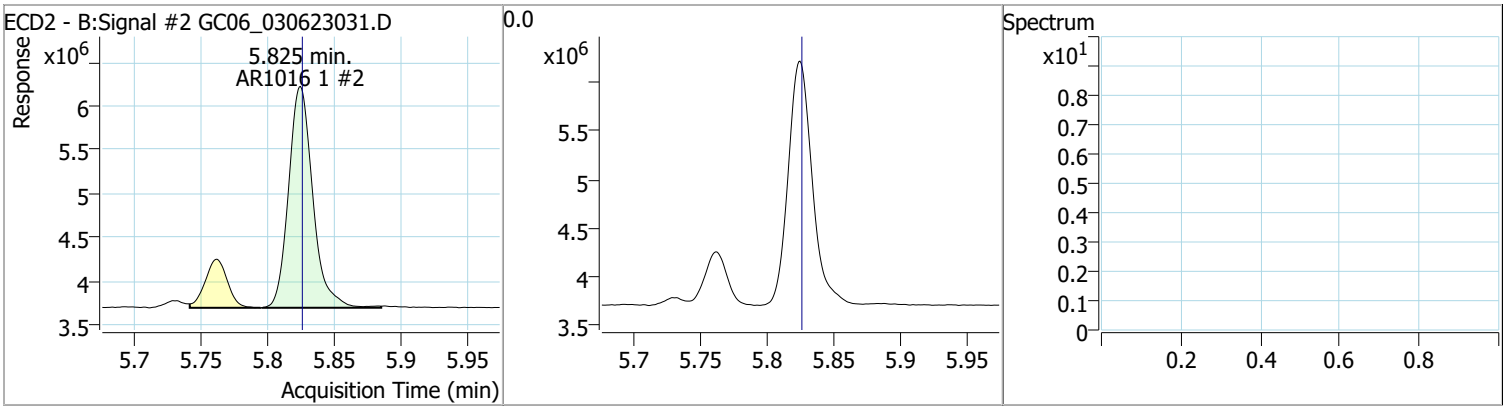
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	20.6771	5.34	0.00	6528988				



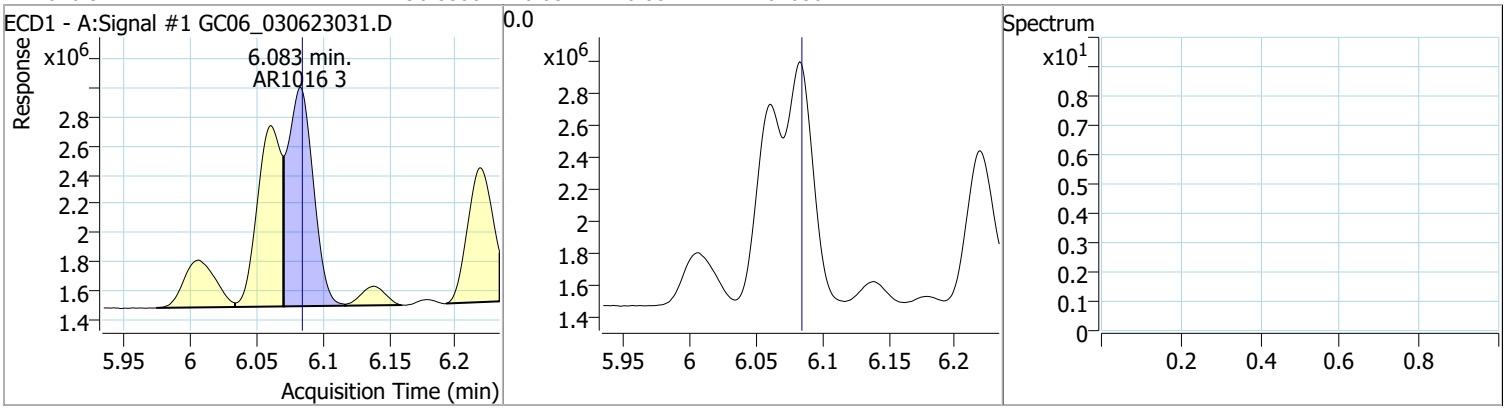
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	525.5935	5.62	0.00	1720212				



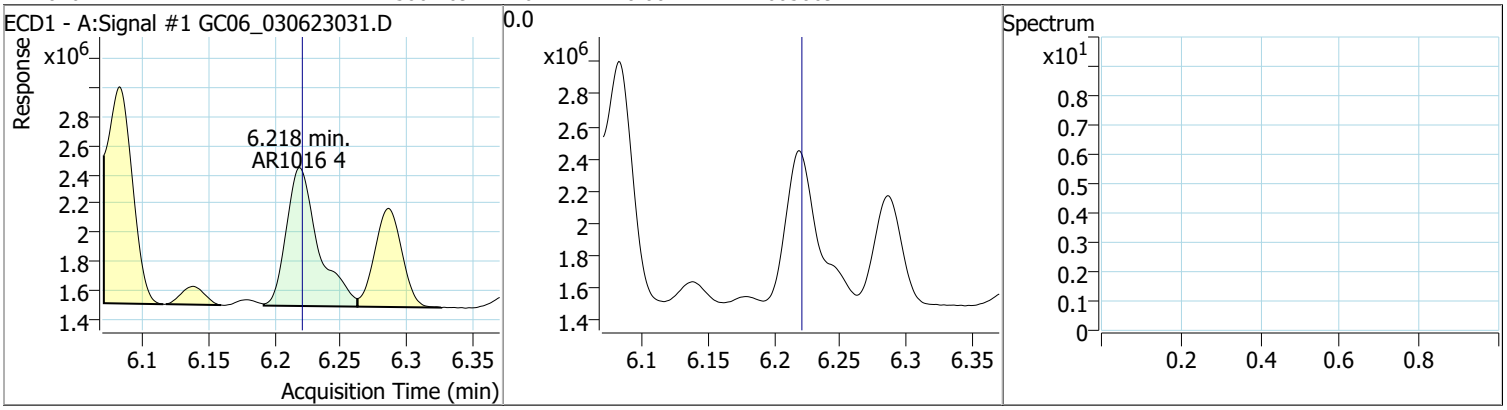
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	512.5713	5.83	0.00	3209210				



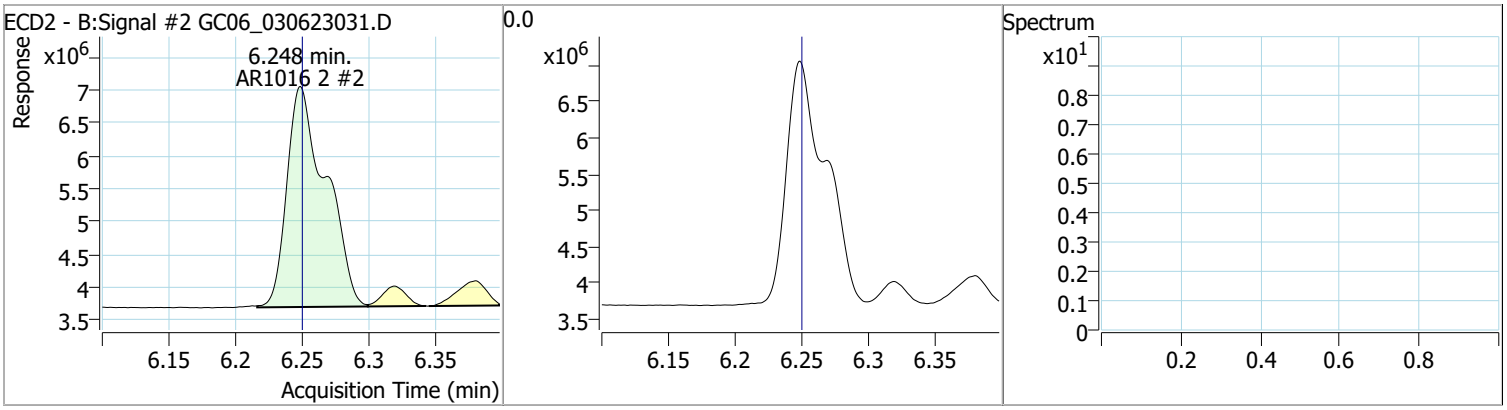
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	496.8806	6.08	0.00	2026867				



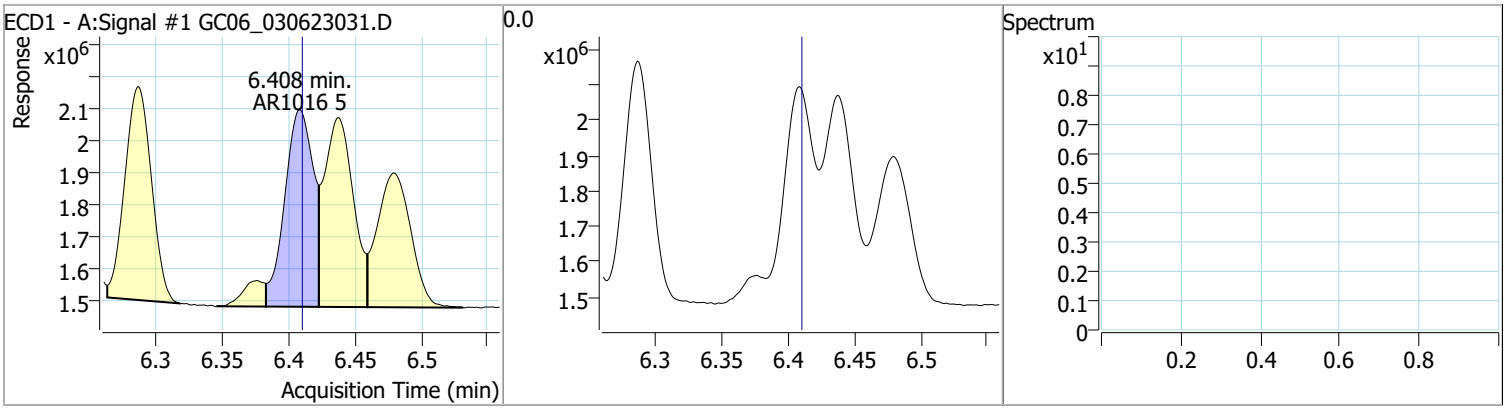
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	506.2692	6.22	0.00	1605069				



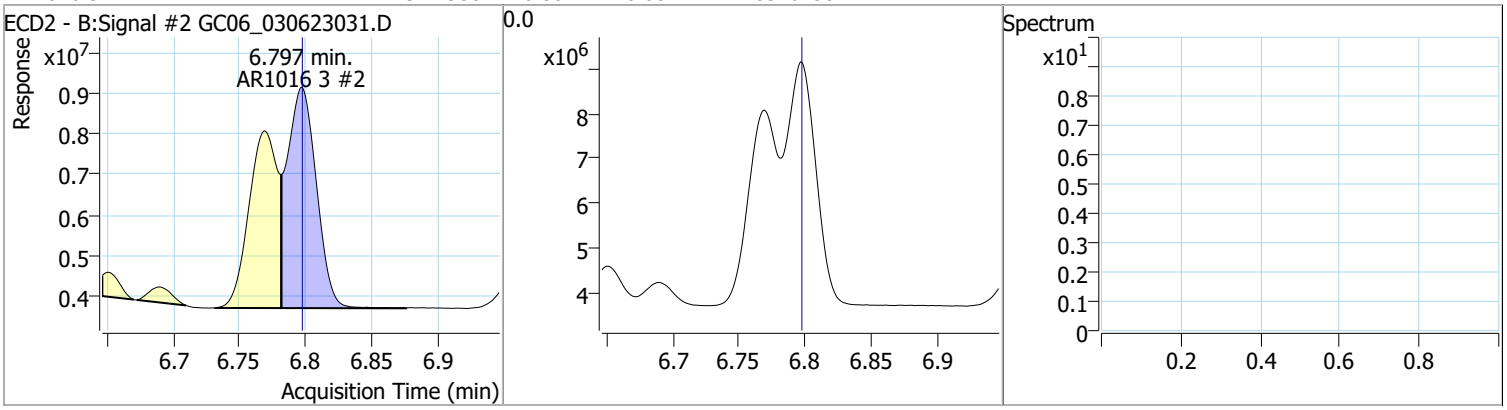
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	495.4432	6.25	0.00	6866212				



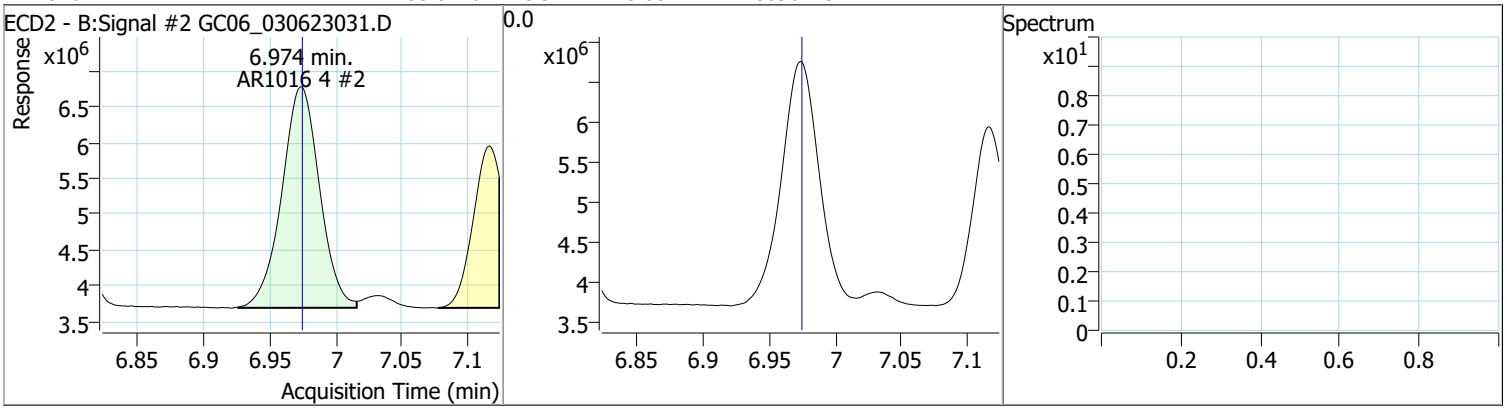
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	509.7012	6.41	0.00	920053				



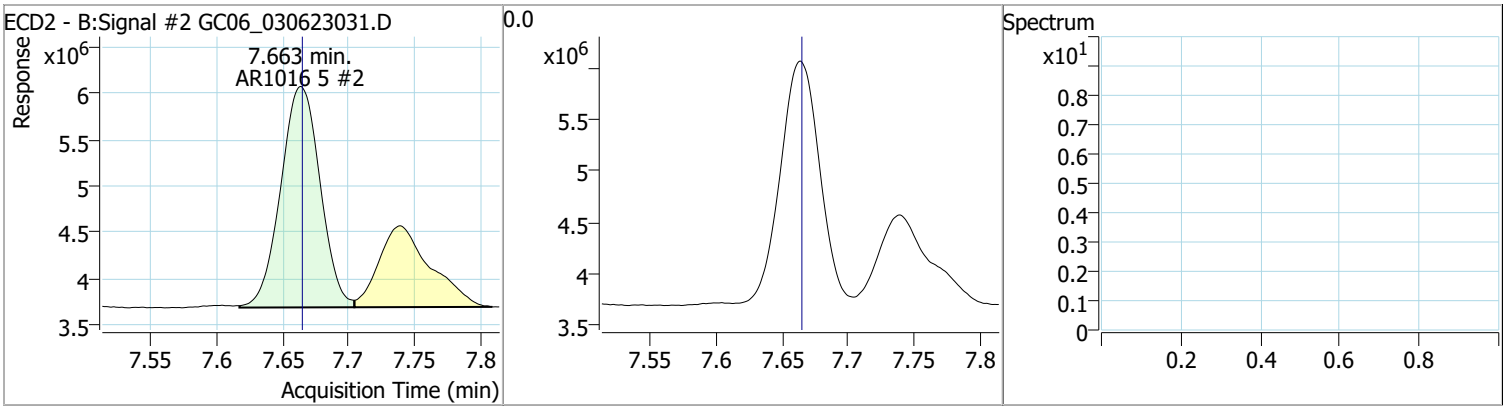
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	492.2958	6.80	0.00	8326450				



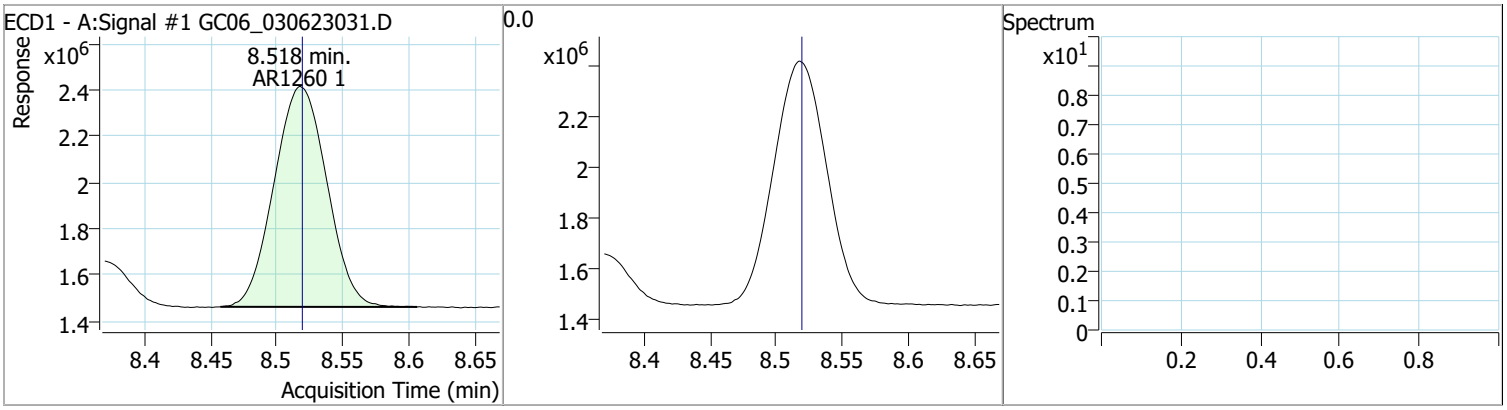
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	488.0146	6.97	0.00	6096413				



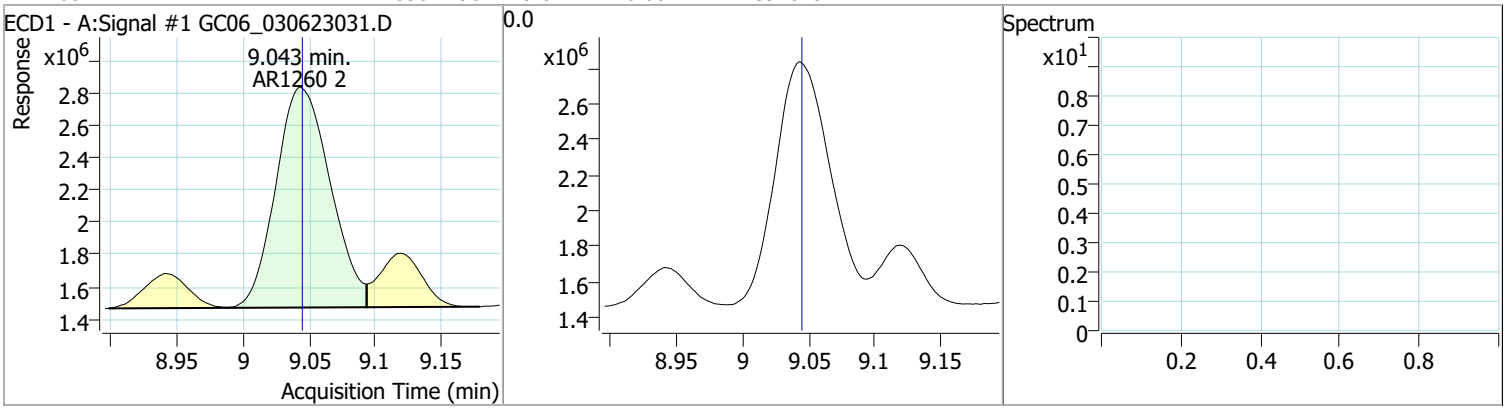
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	485.6241	7.66	0.00	4932277				



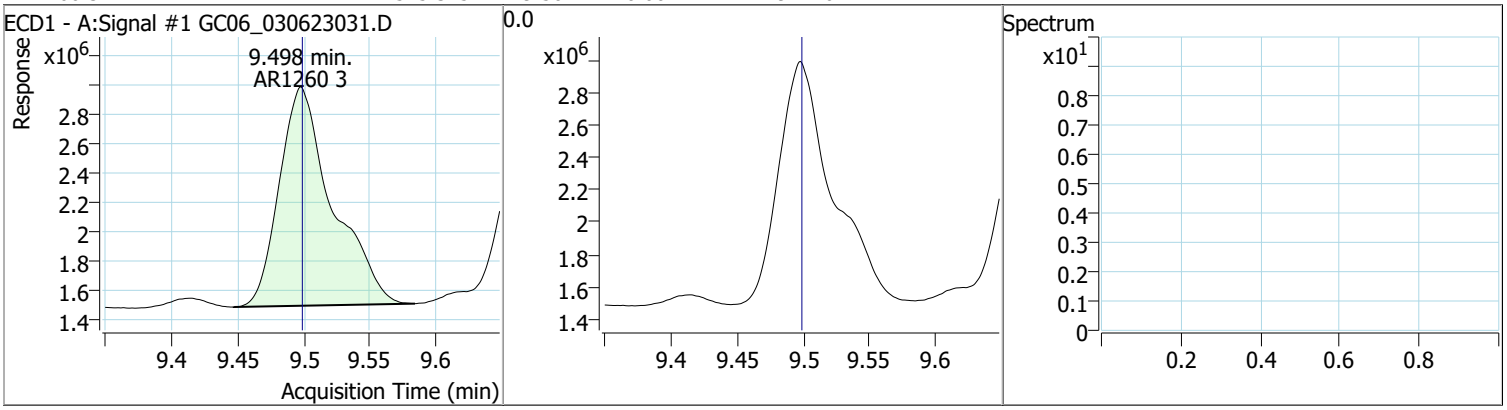
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	514.4130	8.52	0.00	2650569				



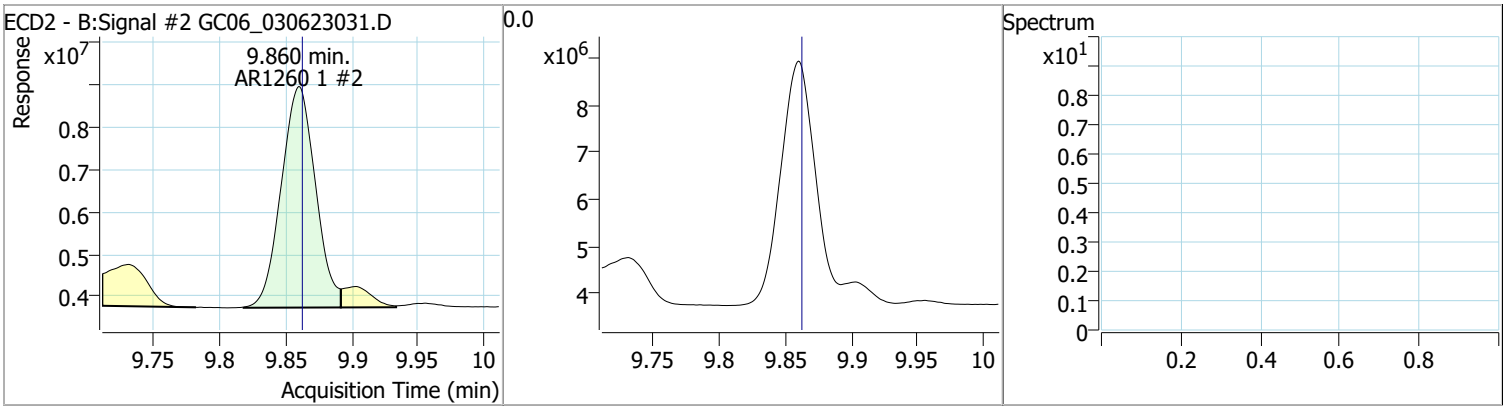
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	536.7490	9.04	0.00	3920451				



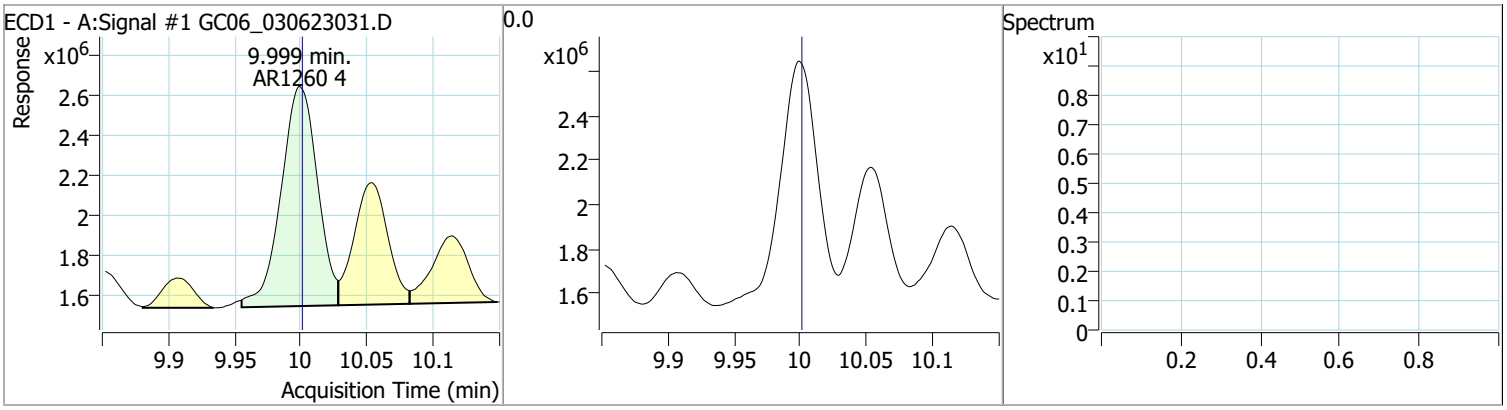
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	525.3757	9.50	0.00	4191470				



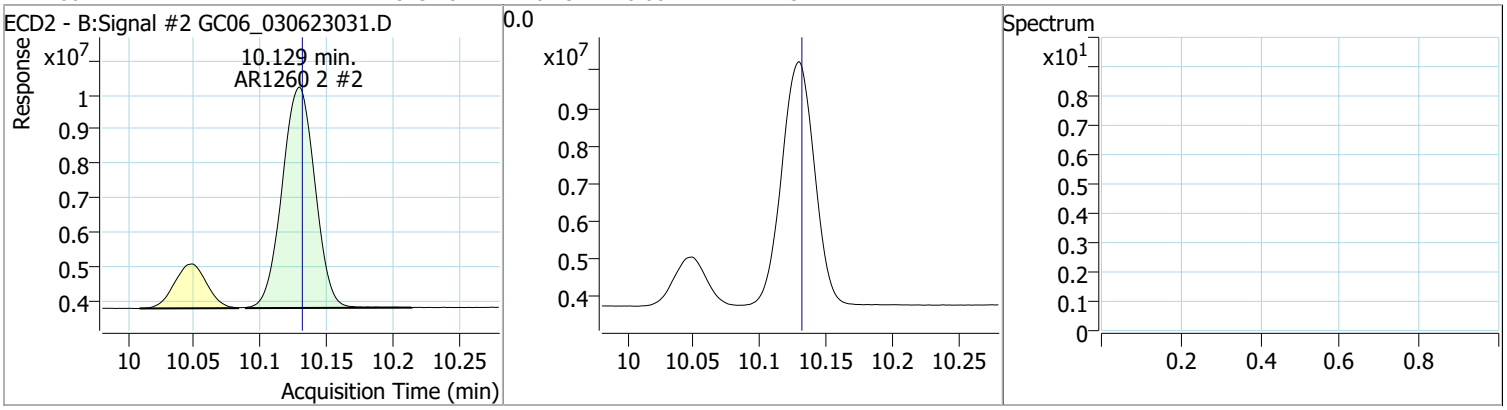
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	536.8147	9.86	0.00	9370850				



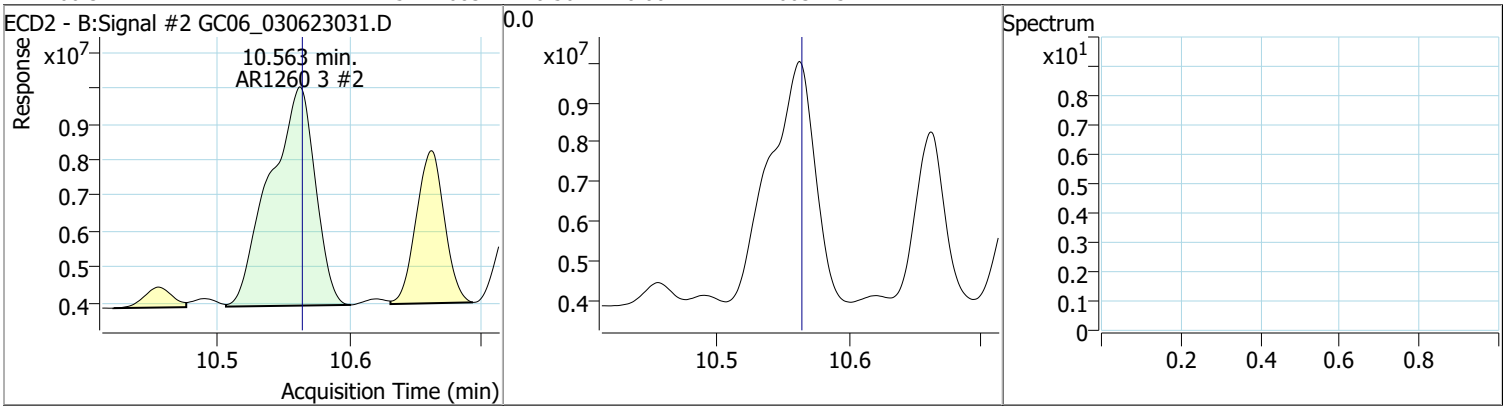
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	448.8469	10.00	0.00	2106551				



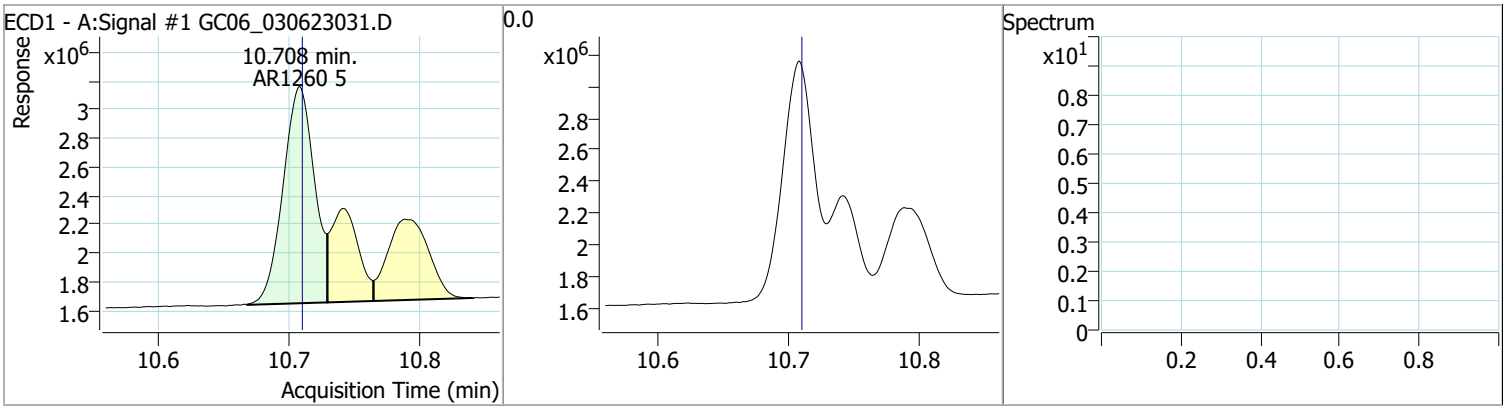
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	523.7877	10.13	0.00	11154417				



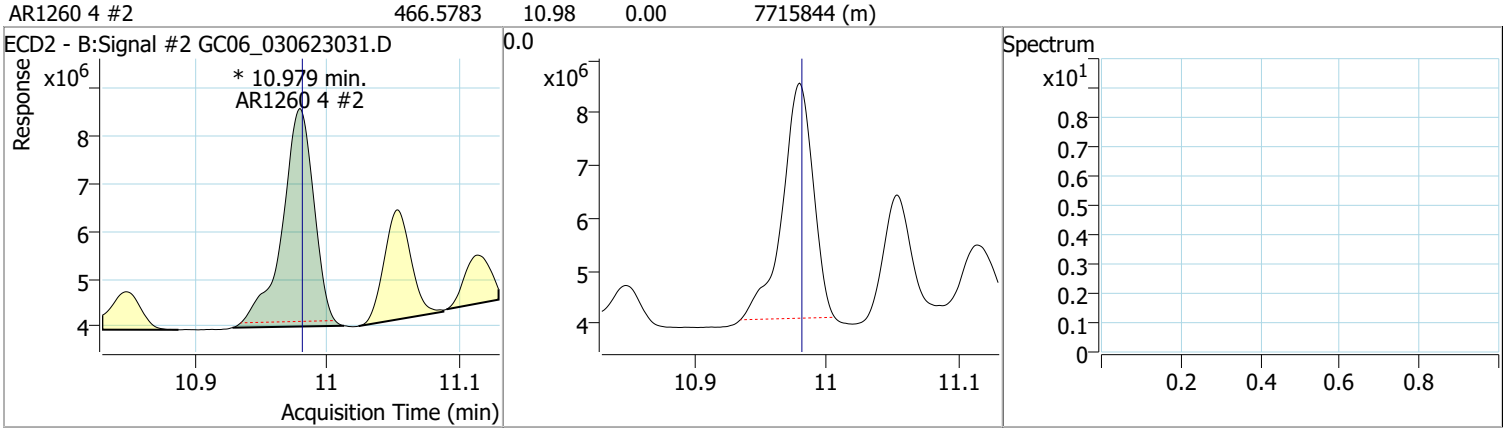
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	517.2683	10.56	0.00	14603215				



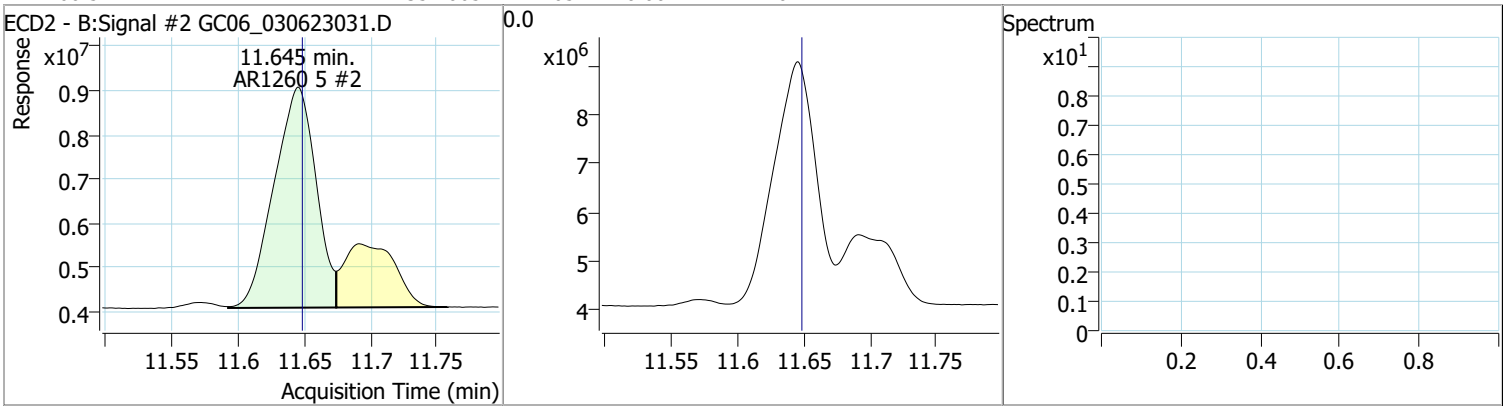
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	501.7883	10.71	0.00	2501452				



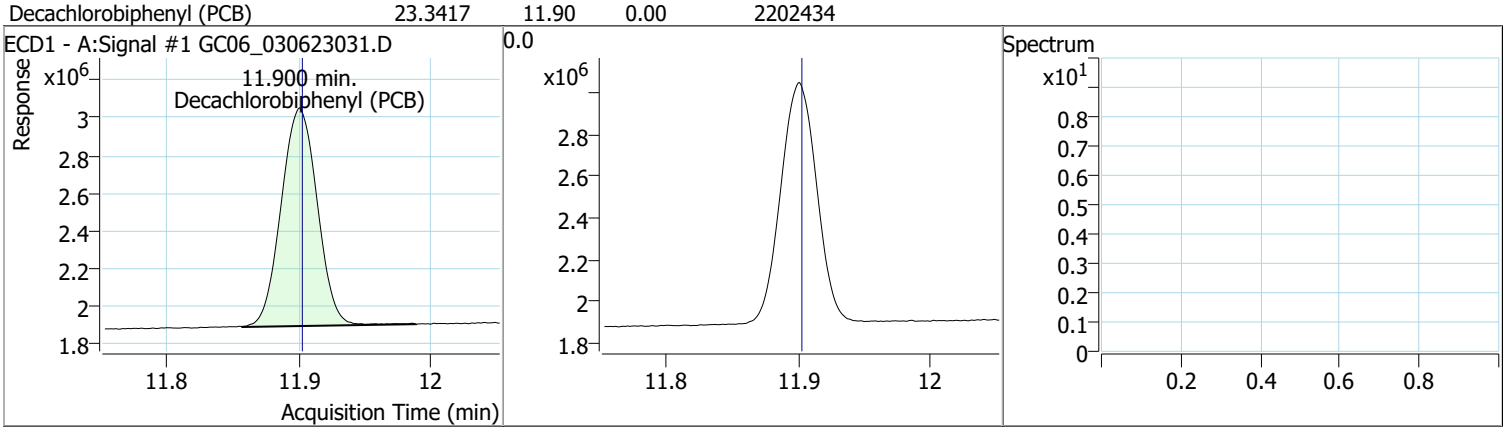
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	466.5783	10.98	0.00	7715844 (m)				



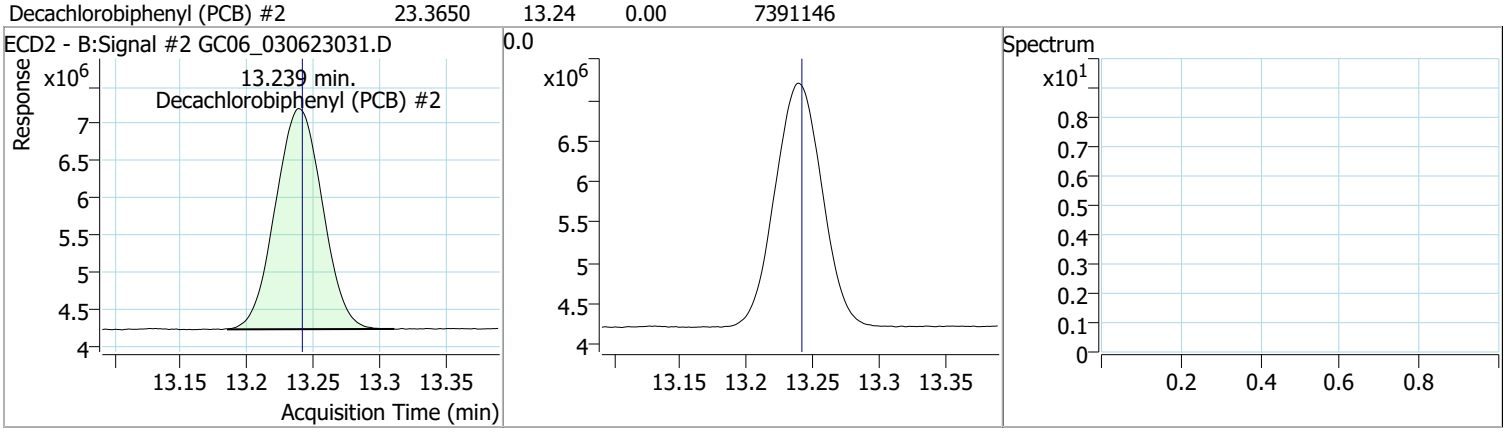
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	435.1065	11.65	0.00	11014147				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	23.3417	11.90	0.00	2202434				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	23.3650	13.24	0.00	7391146				



Continuing Calibration Verification Raw Data

ENTHALPY CONTINUING CALIBRATION FOR 481683 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06			IDF:	1.0
Seqnum:	453114337004	File:	gc06_032023004	Time:	20-MAR-2023 10:14
Cal:	453094313002	Caldate:	06-MAR-2023		

Standards: S17896

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	529.7	ug/L	6	15	0.0000	
Aroclor-1260	A			500.0	529.9	ug/L	6	15	0.0000	
Decachlorobiphenyl (PCB)	A	1.1895	0.7264	40.00	24.43	ug/L	**-39**	15	0.0000	c-
TCMX (PCB)	A	0.9277	0.5046	40.00	21.76	ug/L	**-46**	15	0.0000	c-
Aroclor-1016	B			500.0	522.9	ug/L	5	15	0.0000	
Aroclor-1260	B			500.0	505.7	ug/L	1	15	0.0000	
Decachlorobiphenyl (PCB)	B	0.9623	0.5789	40.00	24.06	ug/L	**-40**	15	0.0000	c-
TCMX (PCB)	B	0.9605	0.5143	40.00	21.42	ug/L	**-46**	15	0.0000	c-

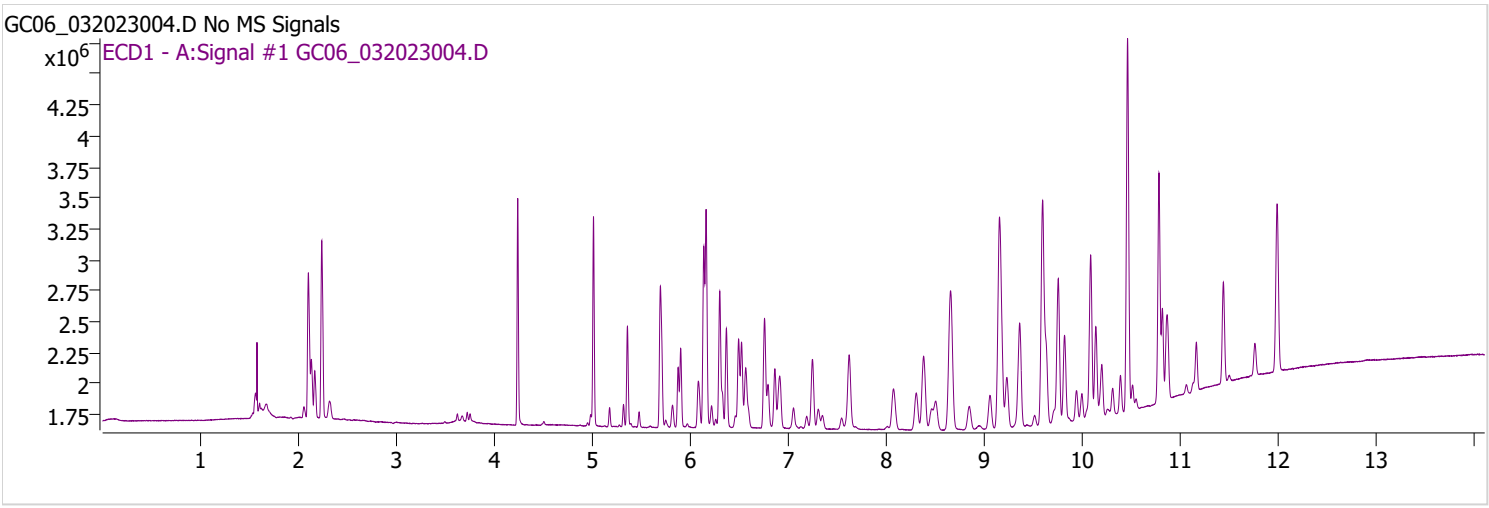
ISTD (ICAL gc06_030623022)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	5472970	6794542	24.15
1-bromo-2-nitrobenzene (PCB)	A	1354516	1772847	30.88

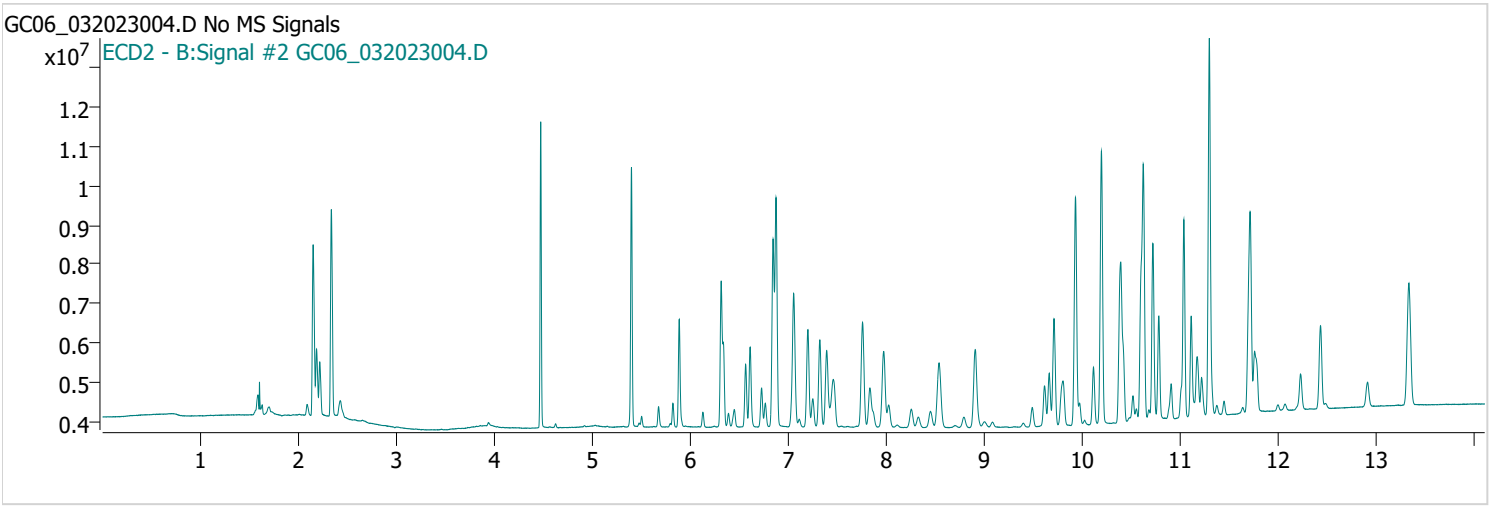
-=low bias c=CCV

Analyst: TRN 03/20/23 **Reviewer:** LW 03/22/23

Quantitation Results Report (Not Reviewed)

Data File	GC06_032023004.D	Operator	
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	3/20/2023 10:14:02 AM
Sample Name	CCV, S17896	Instrument	SVOA-GC06
Vial	144	Multiplier	1.00
DA Method File	PCB_608_030623_GC06_6.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	032023PCB.batch.bin	Last Calib Update	3/7/2023 11:34:59 AM
Ref Library			



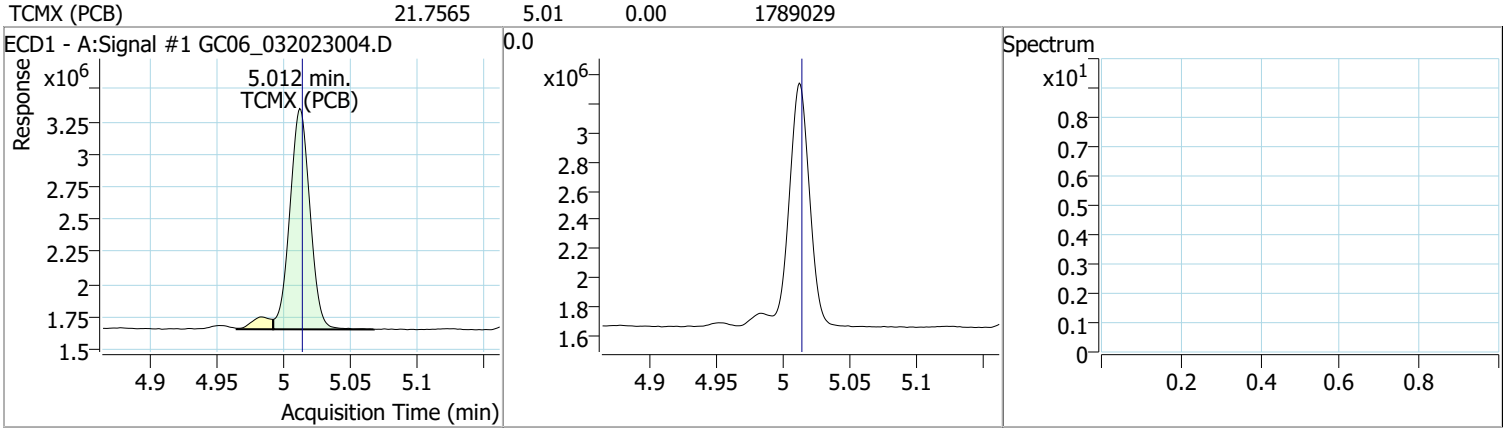


Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
Internal Standards						
M 1-bromo-2-nitrobenzene (PCB)	4.238	0.0	1772847.078	20.0000	ng/ml	0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.473	0.0	6794542.261	20.0000	ng/ml	0.002
System Monitoring Compounds						
S TCMX (PCB)	5.012	0.0	1789028.839	21.7565	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 108.78%		
S TCMX (PCB) #2	5.399	0.0	6988275.519	21.4162	ng/ml	0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 107.08%		
S Decachlorobiphenyl (PCB)	11.990	0.0	2575525.313	24.4270	ng/ml	-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 122.13%		
S Decachlorobiphenyl (PCB) #2	13.336	0.0	7866280.945	24.0631	ng/ml	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 120.32%		
Target Compounds						QValue

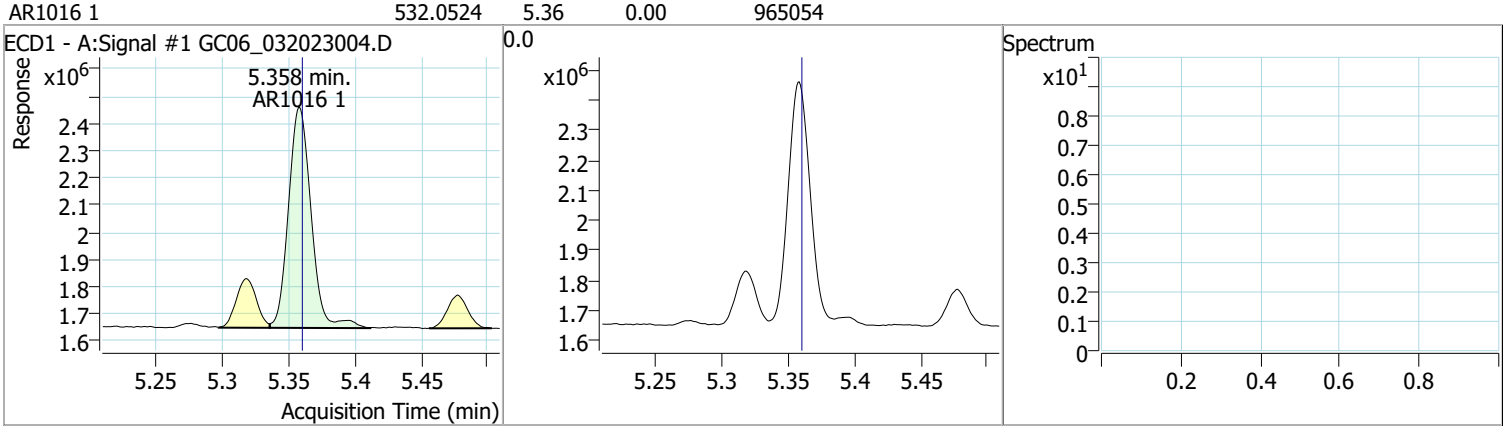
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.358	0.0	965053.891	532.0524	ng/ml	100
T AR1016 2	5.695	0.0	1965216.529	538.7066	ng/ml	100
T AR1016 1 #2	5.888	0.0	3452103.401	533.5409	ng/ml	100
T AR1016 3	6.161	0.0	2342962.672	515.8591	ng/ml	100
T AR1016 4	6.301	0.0	1853663.964	523.2297	ng/ml	100
T AR1016 2 #2	6.316	0.0	7477101.243	522.0808	ng/ml	100
T AR1016 5	6.493	0.0	1086809.817	538.8029	ng/ml	100
T AR1016 3 #2	6.875	0.0	9102825.479	520.7991	ng/ml	100
T AR1016 4 #2	7.055	0.0	6686677.238	517.9604	ng/ml	100
T AR1016 5 #2	7.758	0.0	5458473.021	520.0579	ng/ml	100
T AR1260 1	8.657	0.0	3093334.231	540.1398	ng/ml	100
T AR1260 2	9.157	0.0	4583206.328	561.5366	ng/ml	100
T AR1260 3	9.598	0.0	4942318.637	554.3803	ng/ml	100
T AR1260 1 #2	9.932	0.0	10067584.991	558.0827	ng/ml	100
T AR1260 4	10.087	0.0	2454879.333	468.0904	ng/ml	100
T AR1260 2 #2	10.197	0.0	11762522.192	534.4864	ng/ml	100
T AR1260 3 #2	10.623	0.0	15220181.594	521.6930	ng/ml	100
T AR1260 5	10.784	0.0	2927518.850	525.5349	ng/ml	100
T AR1260 4 #2	11.038	0.0	8133138.778	475.9124	ng/ml	100
T AR1260 5 #2	11.714	0.0	11469850.696	438.4602	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

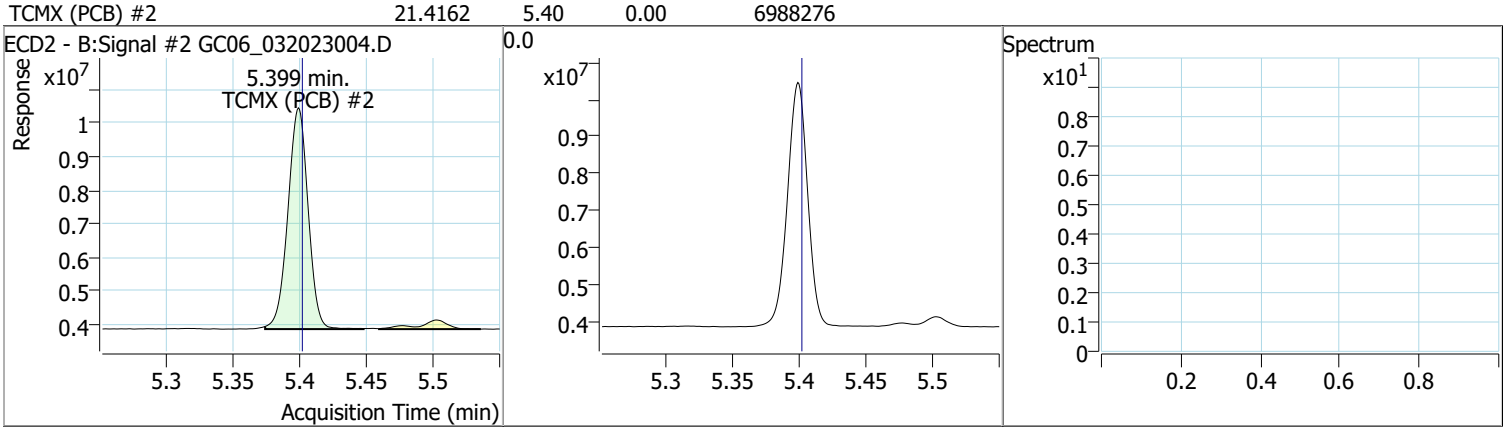
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	21.7565	5.01	0.00	1789029				



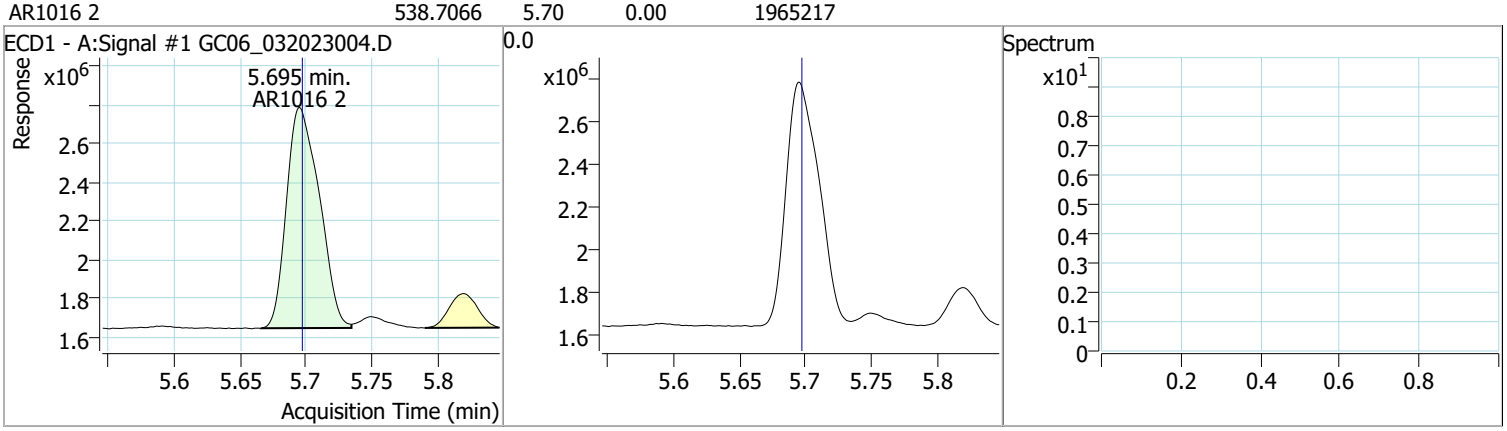
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	532.0524	5.36	0.00	965054				



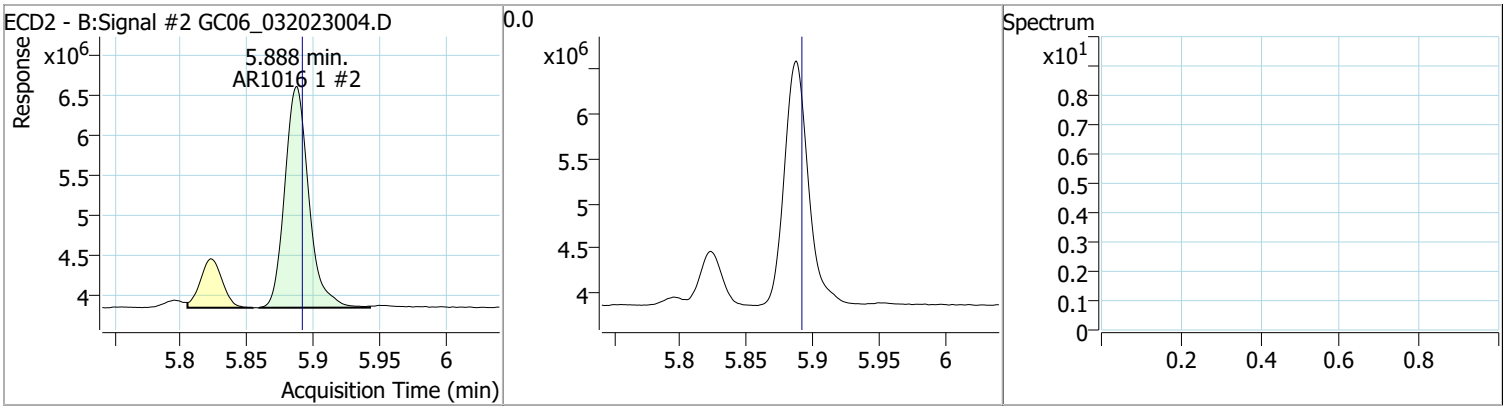
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	21.4162	5.40	0.00	6988276				



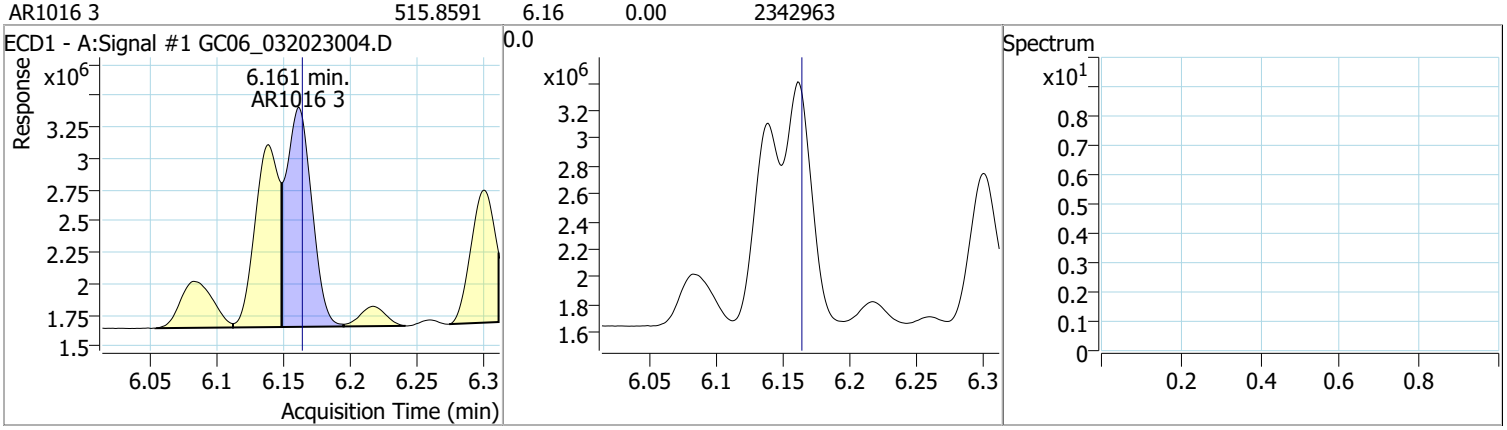
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	538.7066	5.70	0.00	1965217				



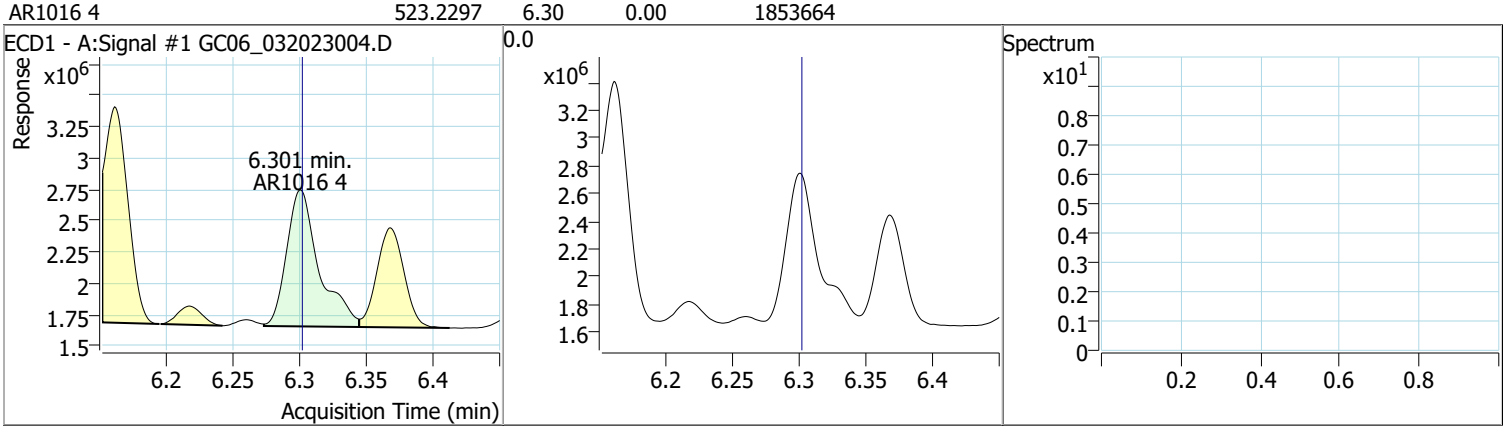
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	533.5409	5.89	0.00	3452103				



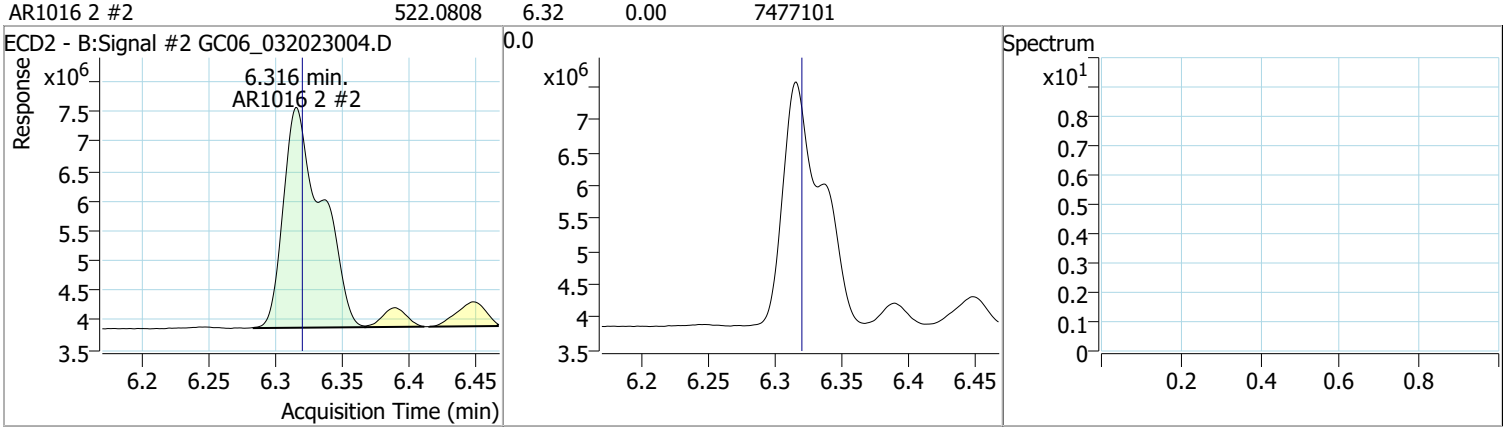
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	515.8591	6.16	0.00	2342963				



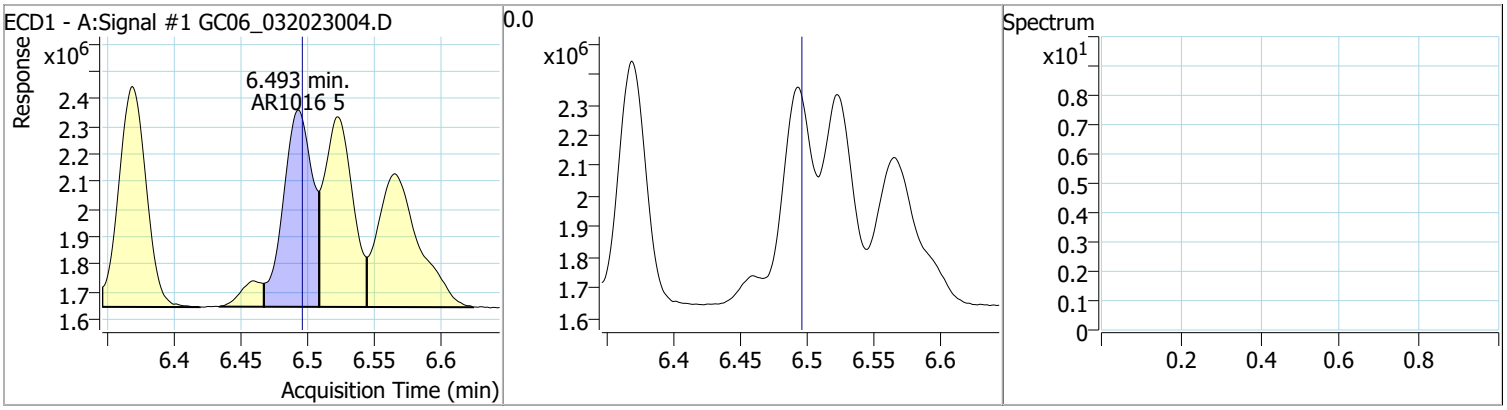
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	523.2297	6.30	0.00	1853664				



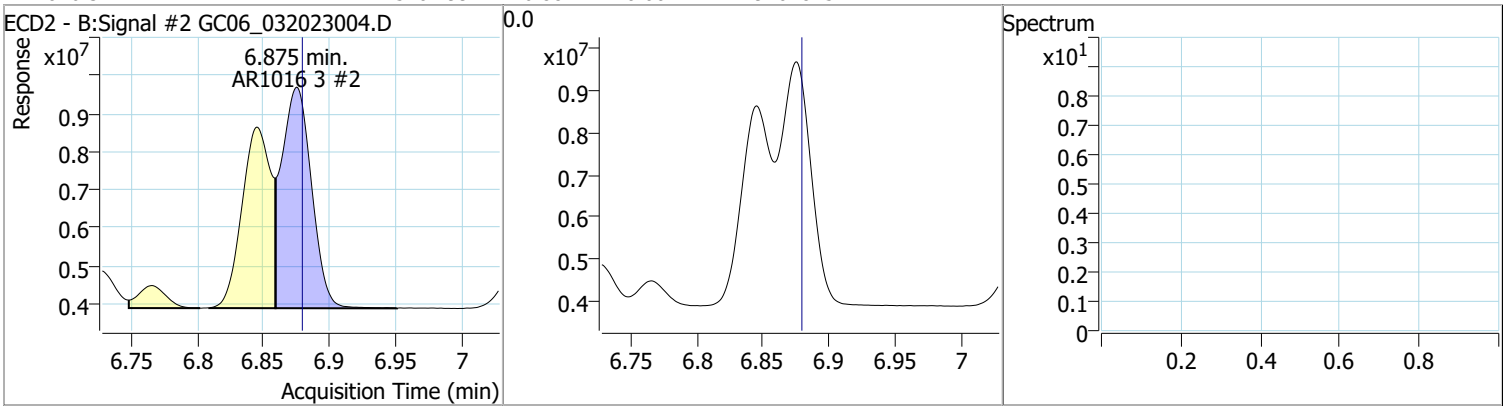
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AR1016 2 #2	522.0808	6.32	0.00	7477101				



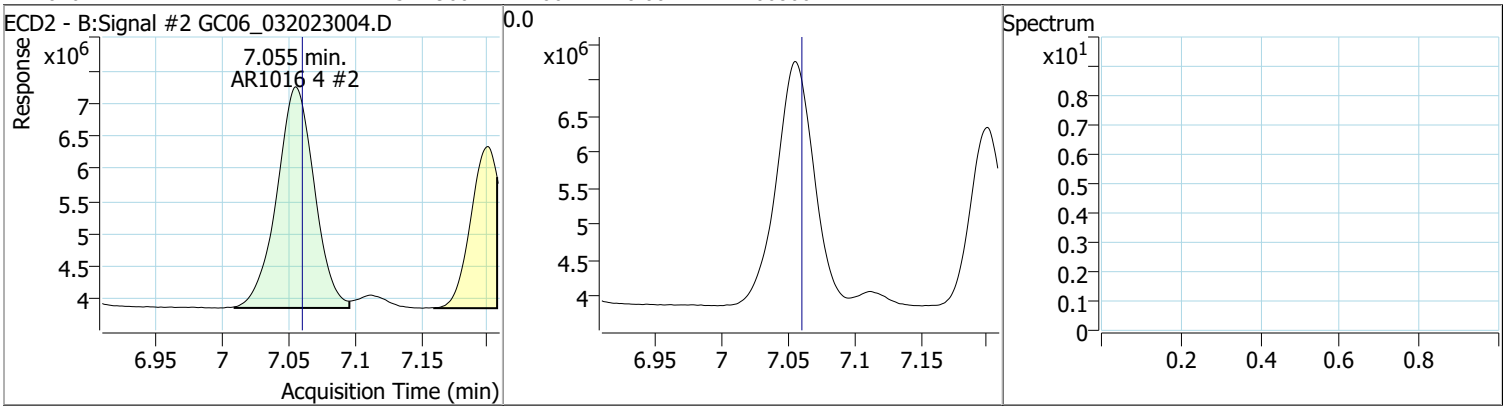
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	538.8029	6.49	0.00	1086810				



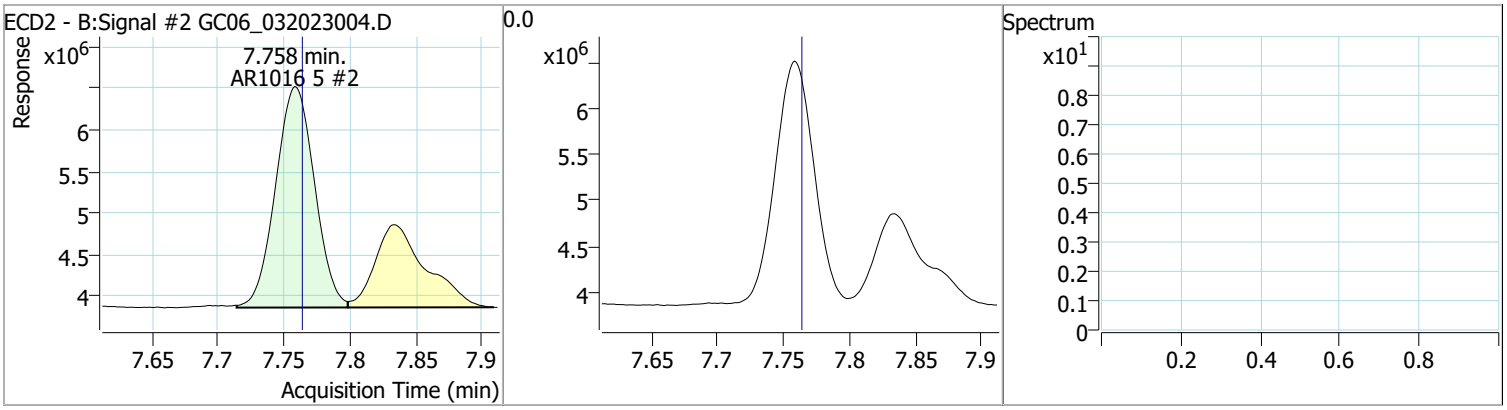
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	520.7991	6.88	0.00	9102825				



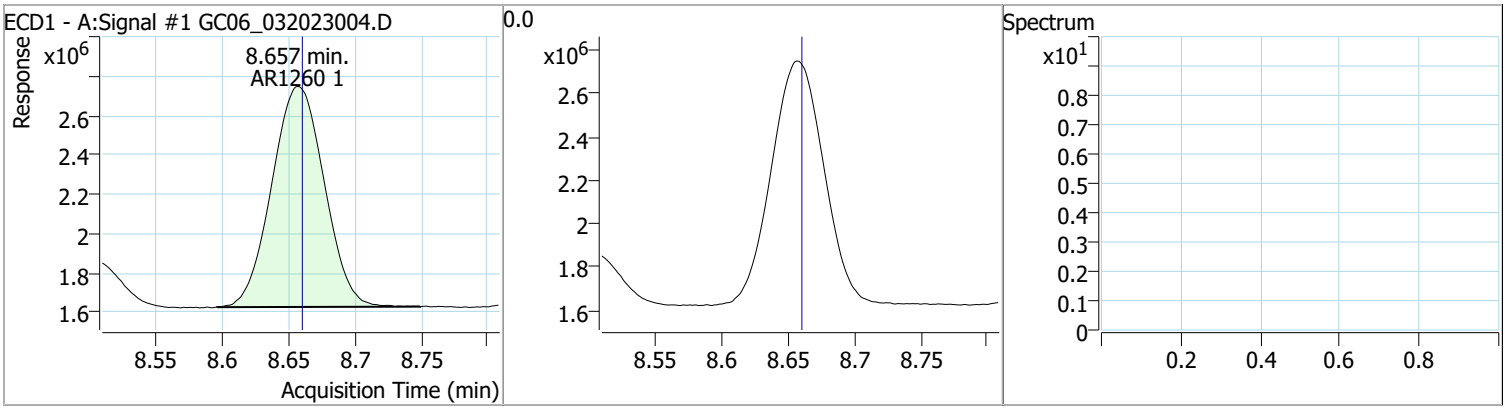
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	517.9604	7.06	0.00	6686677				



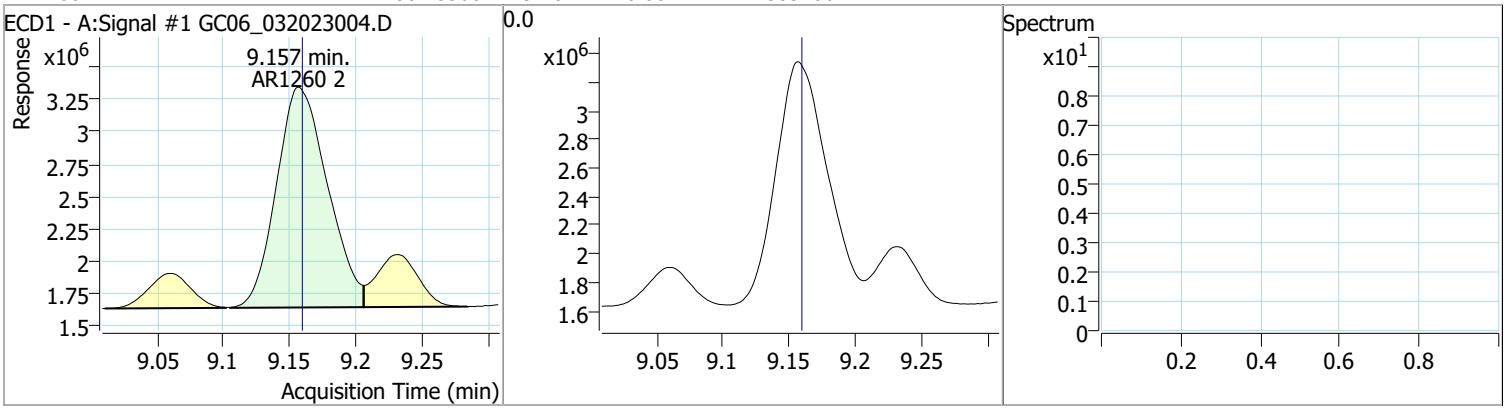
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	520.0579	7.76	0.00	5458473				



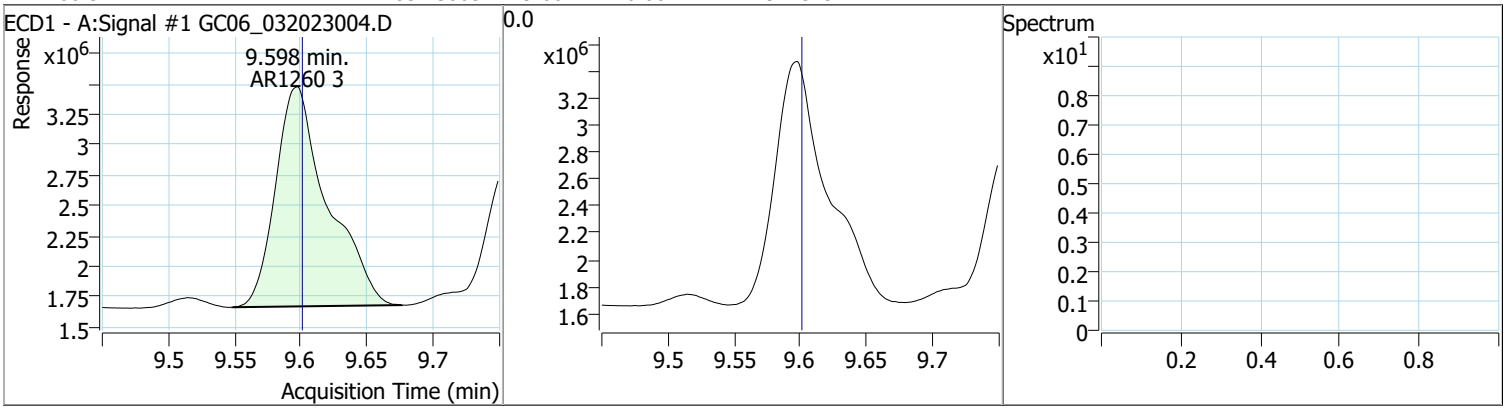
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	540.1398	8.66	0.00	3093334				



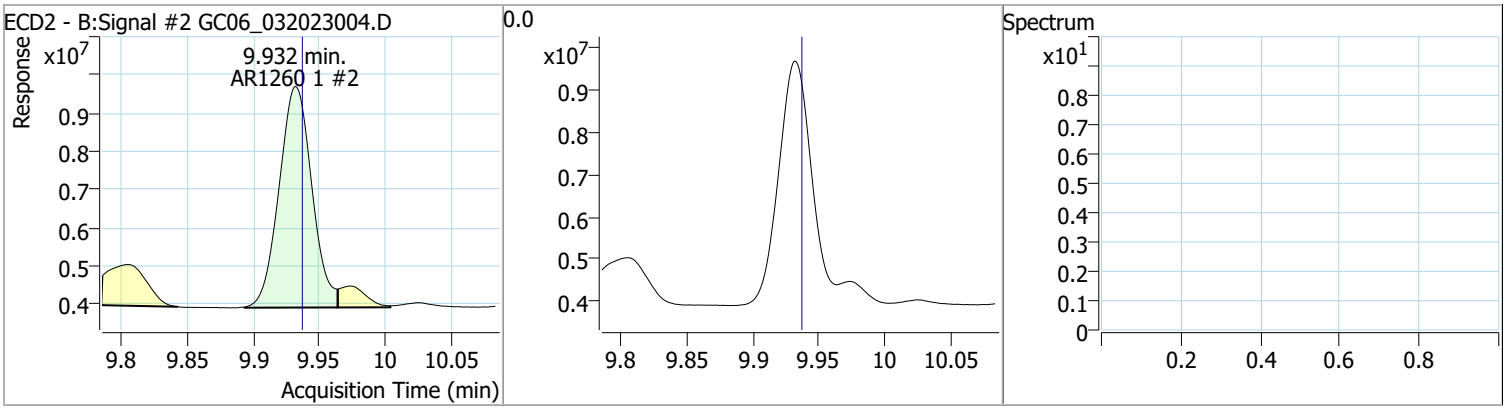
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	561.5366	9.16	0.00	4583206				



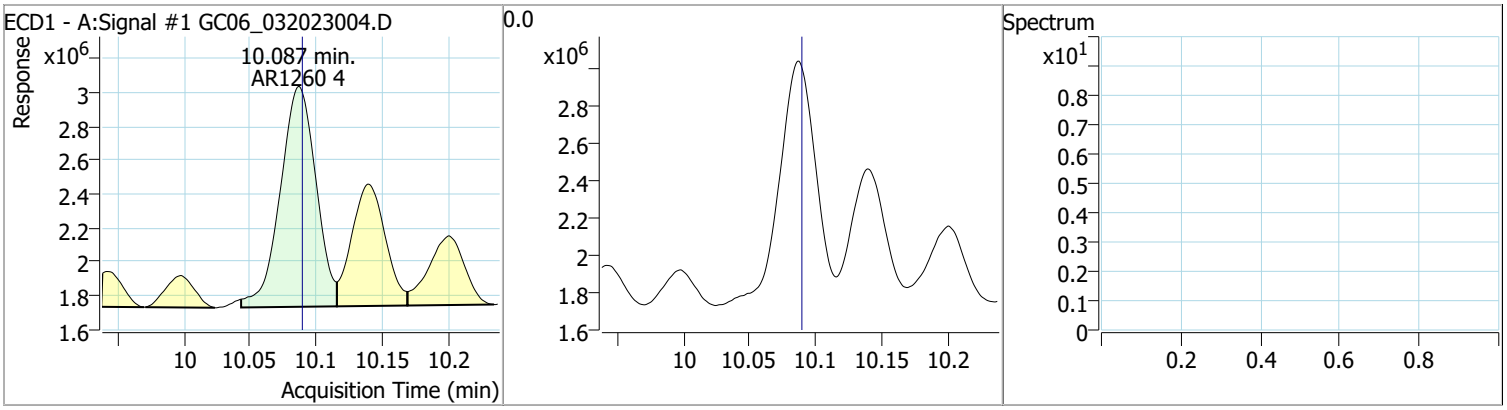
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	554.3803	9.60	0.00	4942319				



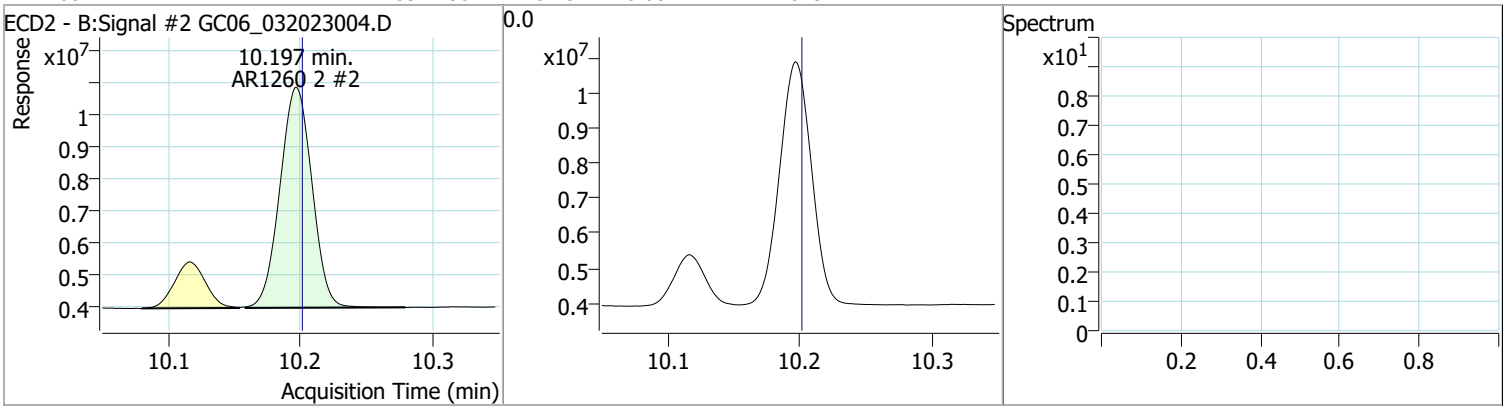
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
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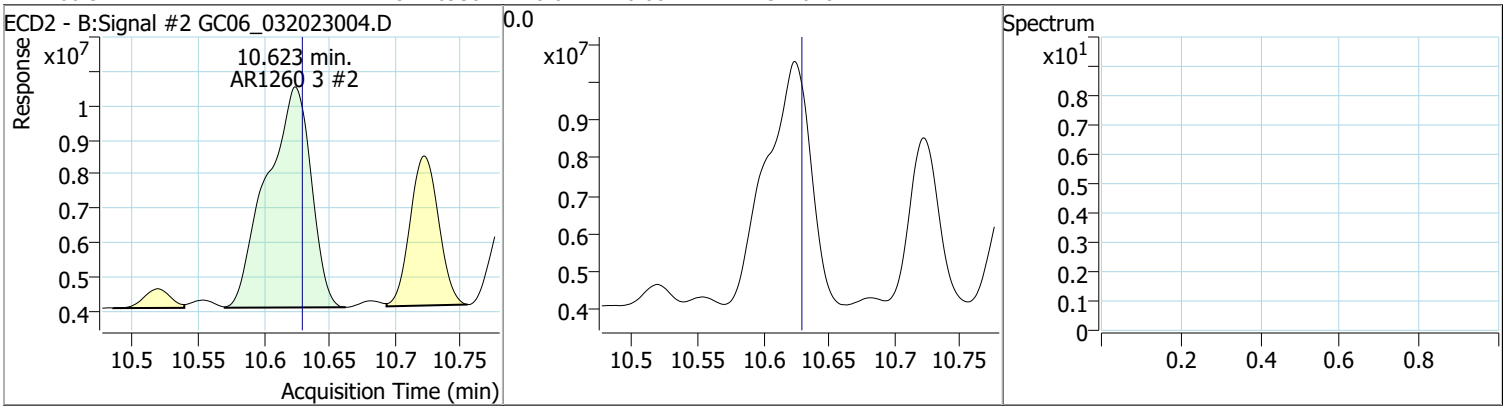
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	468.0904	10.09	0.00	2454879				



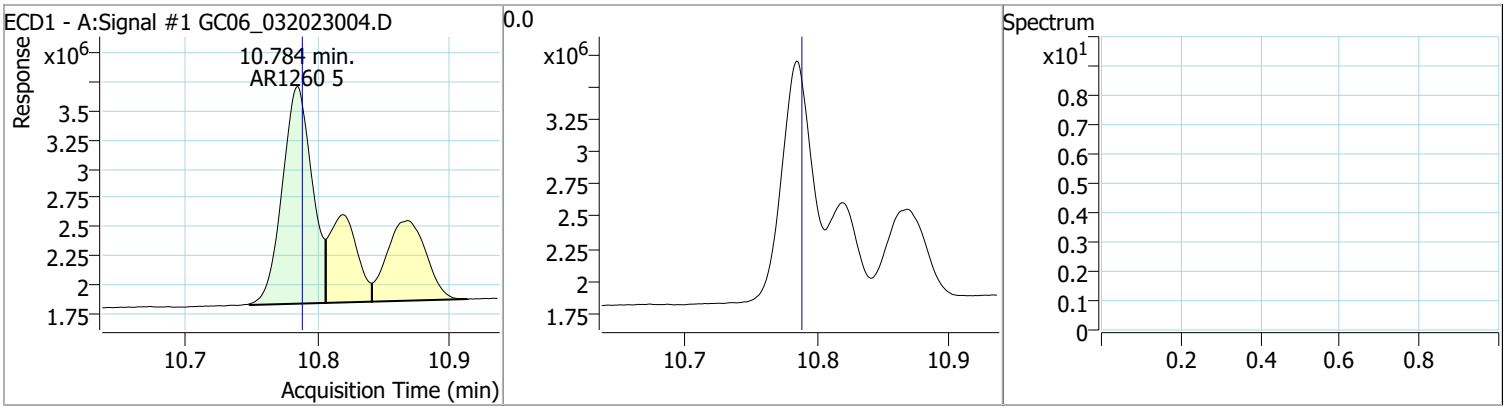
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	534.4864	10.20	0.00	11762522				



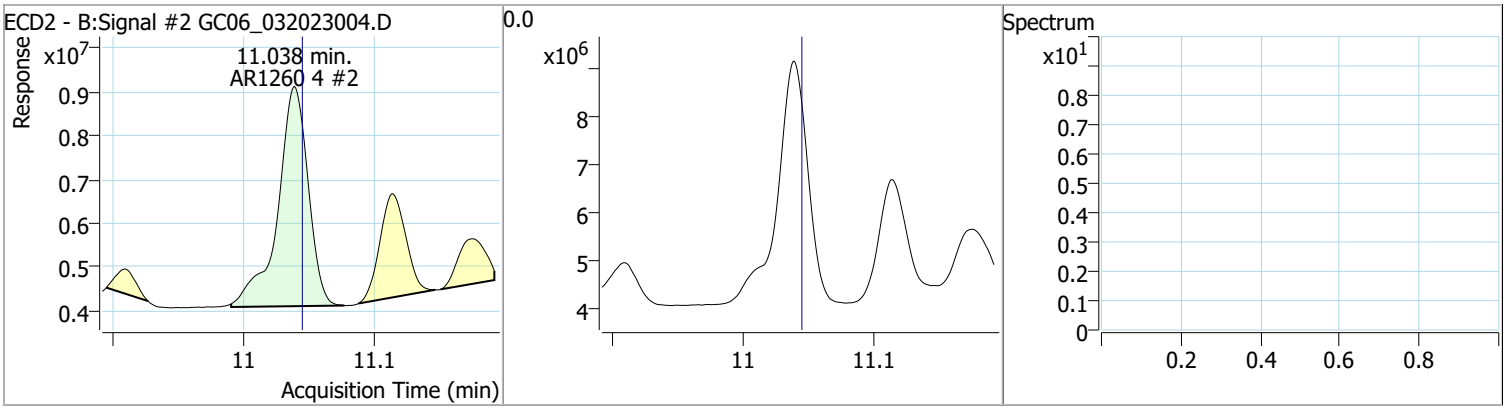
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	521.6930	10.62	0.00	15220182				



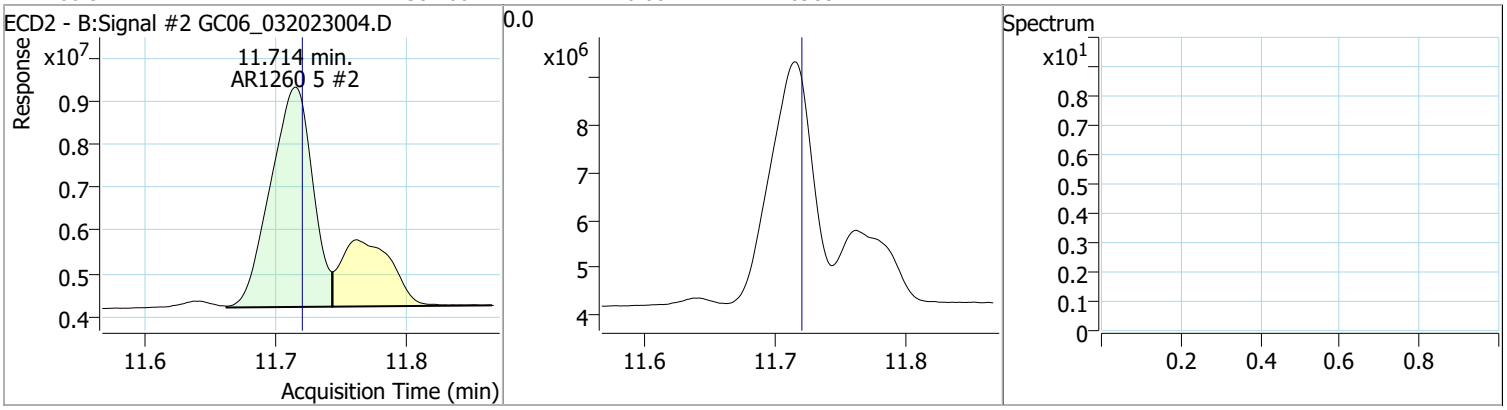
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	525.5349	10.78	0.00	2927519				



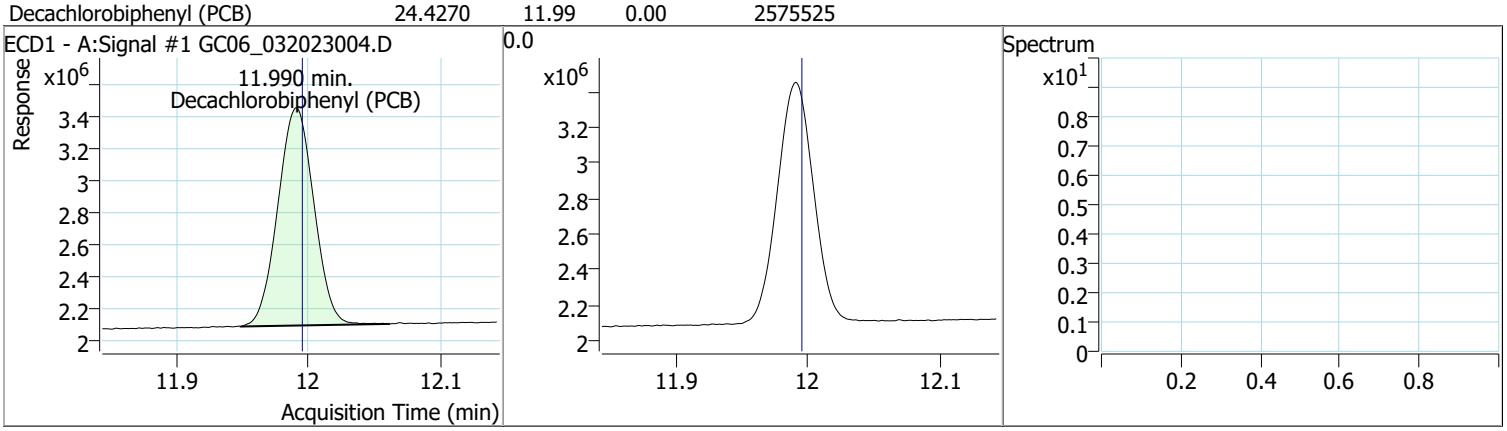
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	475.9124	11.04	0.00	8133139				



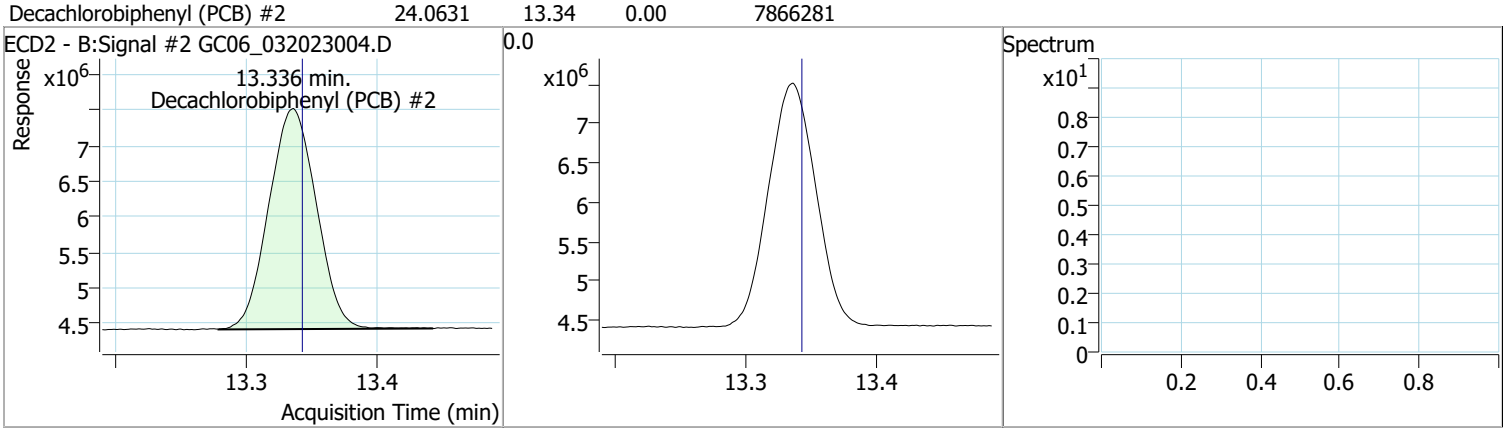
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	438.4602	11.71	0.00	11469851				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	24.4270	11.99	0.00	2575525				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	24.0631	13.34	0.00	7866281				



Enthalpy Analytical
931 West Barkley Ave
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enthalpy.com

Lab Job Number: 481683
Report Level: IV
Report Date: 03/24/2023

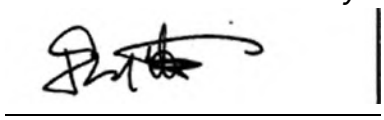
Metals

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	481683
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	03/16/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-L-LA	481683-002	03/16/23 11:15	Wipe
ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-L-LA	481683-004	03/16/23 11:45	Wipe
ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-L-LA	481683-006	03/16/23 12:20	Wipe
ARCH-C3E-DG-2.5 TO 3-230316-L-FB	481683-008	03/16/23 12:00	Wipe

Case Narrative

METALS (EPA 6010B)

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Austin Moore	Lab Job Number: 481683 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 03/16/23

This data package contains sample and QC results for four wipe samples, requested for the above referenced project on 03/17/23. See attached cooler receipt form for any sample receipt problems or discrepancies.

Metals (EPA 6010B):

No analytical problems were encountered.

Chain of Custody

481683

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (PB)	custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level IV

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T.Sinnott + M.Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 3546/8082	Lead by EPA Method 3050M/6010B	HOLD
1	ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-P-LA	3/16/2023	1115	WP	1		X		
2	ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-L-LA	3/16/2023	1115	WP	1			X	
3	ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-P-LA	3/16/2023	1145	WP	1		X		
4	ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-L-LA	3/16/2023	1145	WP	1			X	
5	ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-P-LA	3/16/2023	1220	WP	1		X		
6	ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-L-LA	3/16/2023	1220	WP	1			X	
7	ARCH-C3E-DG-2.5 TO 3-230316-P-FB	3/16/2023	1200	WP	1		X		
8	ARCH-C3E-DG-2.5 TO 3-230316-L-FB	3/16/2023	1200	WP	1			X	
9									
10									
11									
12									
13									
14									
15									

Analysis Request

Test Instructions / Comments

Confirmation Wipe Samples - Level IV Report/Stage 3 Validation

Report PCB concentrations on a µg/100cm2 basis

Report lead concentrations on a µg/ft2 basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

2x Rivet Type 2 = 0.0200 ft2

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Tyler Sinnott	Rincon / Envi. Scientist	3/16/23 / 1435
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	3/16/23 14:35
2 Relinquished By:	Audrey Hudson	"	"	3/16/23 16:20
2 Received By:		Kincannon Kim		3/16/23 16:20
3 Relinquished By:		JSP	Enthalpy	3.16.23 17:00
3 Received By:		FEDEX		3/17/23 1000

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 481683 Client: Rincon

Date Received: 3.16.23 Project: _____

ENTHALPY

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☑ Yes. If yes, where? ☑ on cooler, ☐ on samples, ☐ on package

☑ Date: 3/16/23 How many 1 ☑ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 3-16-23 By (print) JJP (sign) [signature]

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 3.16.23 **By (print)** JJP **(sign)** [signature]

Date Labeled 3.16.23 **By (print)** JJP **(sign)** [signature]

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 3/17/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 4.9 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.1 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

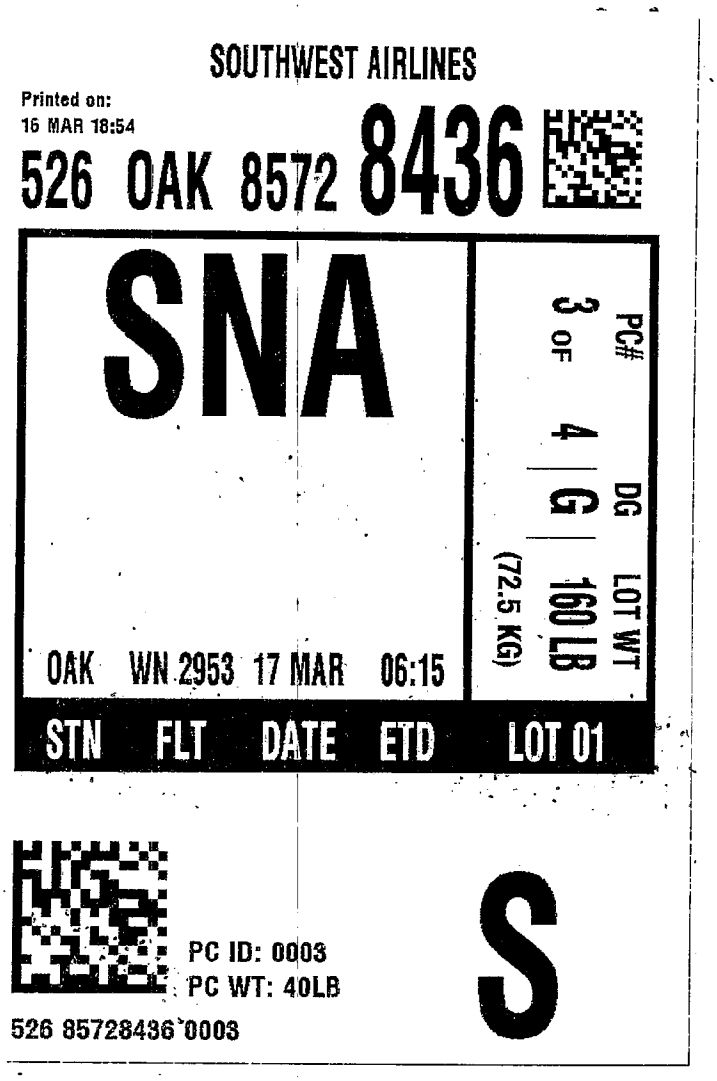
Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 3/17/23


SOUTHWEST AIRLINES
Printed on:
16 MAR 18:54
526 OAK 8572 8436
SNA
PC# 3 OF 4
DG G
LOT WT 160 LB (72.5 KG)
OAK WN 2953 17 MAR 06:15
STN FLT DATE ETD LOT 01
PC ID: 0003
PC WT: 40LB
526 85728436 0003
S

2.1/4.9

Results & QC Summary

ENTHALPY ANALYTICAL

Lead

Lab #: 481683 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-L-LA **Batch#:** 309984 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481683-002 **Received:** 03/16/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481683-002 Analyte	Result	RL	Units
Lead	**14**	0.25	ug/ft2

Field ID: ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-L-LA **Batch#:** 309984 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481683-004 **Received:** 03/16/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481683-004 Analyte	Result	RL	Units
Lead	**19**	0.25	ug/ft2

Field ID: ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-L-LA **Batch#:** 309984 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481683-006 **Received:** 03/16/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481683-006 Analyte	Result	RL	Units
Lead	**6.5**	0.25	ug/ft2

Field ID: ARCH-C3E-DG-2.5 TO 3-230316-L-FB **Batch#:** 309984 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481683-008 **Received:** 03/16/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481683-008 Analyte	Result	RL	Units
Lead	**8.0**	0.25	ug/ft2

Type: BLANK **Batch#:** 309984 **Analysis:** EPA 6010B
Lab ID: QC1052772 **Prepared:** 03/17/23 **Analyst:** THP
Matrix: Wipe **Analyzed:** 03/17/23
Dln Fac: 1.000 **Prep:** EPA 3050B

QC1052772 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Legend
ND: Not Detected
RL: Reporting Limit

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 481683 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 309984 **Analysis:** EPA 6010B

Lab ID: QC1052773 **Prepared:** 03/17/23 **Analyst:** THP

Matrix: Wipe **Analyzed:** 03/17/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1052773 Analyte	Spiked	Result	%REC	Limits	Units
Lead	100.0	93.92	94	80-120	ug/ft2

Type: BSD **Batch#:** 309984 **Analysis:** EPA 6010B

Lab ID: QC1052774 **Prepared:** 03/17/23 **Analyst:** THP

Matrix: Wipe **Analyzed:** 03/17/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1052774 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	100.0	96.14	96	80-120	ug/ft2	2	20

Legend

RPD: Relative Percent Difference

REPORTING SUMMARY FOR 481683 METALS Wipe
Enthalpy Analytical - Orange

Lab ID	Inst ID	Analyzed	IDF	PB
481683-002	MET09	03/17/23 17:04	1.0	✓
481683-004	MET09	03/17/23 17:08	1.0	✓
481683-006	MET09	03/17/23 17:11	1.0	✓
481683-008	MET09	03/17/23 17:14	1.0	✓
QC1052772	MET09	03/17/23 16:55	1.0	✓
QC1052773	MET09	03/17/23 16:58	1.0	✓
QC1052774	MET09	03/17/23 17:01	1.0	✓

Enthalpy Sequence Summary for Sequence 673110383

Instrument: MET09 Begun: 03/17/23 15:43

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	icp data	ICALBLK				03/17/23 15:43	1.0		
002	icp data	ICAL	L1			03/17/23 15:47	1.0	1	
003	icp data	ICAL	L2			03/17/23 15:50	1.0	2	
004	icp data	ICAL	L3			03/17/23 15:53	1.0	3	
005	icp data	ICAL	L4			03/17/23 15:56	1.0	4	
006	icp data	ICAL	L5			03/17/23 16:00	1.0	5	
007	icp data	ICAL	L6			03/17/23 16:03	1.0	6	
008	icp data	ICAL	L7			03/17/23 16:06	1.0	7	
009	icp data	ICAL	L8			03/17/23 16:09	1.0	8	
010	icp data	ICV				03/17/23 16:13	1.0	9	
011	icp data	XICB				03/17/23 16:16	1.0		
012	icp data	CRI				03/17/23 16:19	1.0	10	
013	icp data	ICB				03/17/23 16:24	1.0		
014	icp data	ICSA				03/17/23 16:27	1.0	11	6:MGASMGCO3=1300
015	icp data	ICSAB				03/17/23 16:31	1.0	12	6:MGASMGCO3=1400
016	icp data	BLANK	QC1052699	TCLP Leachate	309963	03/17/23 16:45	1.0	13	1:NA=980
017	icp data	LCS	QC1052700	TCLP Leachate	309963	03/17/23 16:48	1.0	13	1:NA=1000
018	icp data	SAMPLE	479778-002	TCLP Leachate	309963	03/17/23 16:52	1.0	13	1:NA=900
019	icp data	BLANK	QC1052772	Wipe	309984	03/17/23 16:55	1.0	13	
020	icp data	BS	QC1052773	Wipe	309984	03/17/23 16:58	1.0	13	
021	icp data	BSD	QC1052774	Wipe	309984	03/17/23 17:01	1.0	13	
022	icp data	SAMPLE	481683-002	Wipe	309984	03/17/23 17:04	1.0	13	1:FE=380
023	icp data	SAMPLE	481683-004	Wipe	309984	03/17/23 17:08	1.0	13	1:FE=360
024	icp data	SAMPLE	481683-006	Wipe	309984	03/17/23 17:11	1.0	13	1:FE=310
025	icp data	SAMPLE	481683-008	Wipe	309984	03/17/23 17:14	1.0	13	1:FE=380
026	icp data	CCV				03/17/23 17:17	1.0	9	
027	icp data	CCB				03/17/23 17:21	1.0		
028	icp data	SAMPLE	480767-002	WET Leachate	309748	03/17/23 17:24	1.0	13	
029	icp data	SAMPLE	480767-004	WET Leachate	309748	03/17/23 17:27	1.0	13	
030	icp data	SAMPLE	480767-006	WET Leachate	309748	03/17/23 17:30	1.0	13	
031	icp data	SAMPLE	480767-008	WET Leachate	309748	03/17/23 17:34	1.0	13	
032	icp data	SAMPLE	480767-009	WET Leachate	309748	03/17/23 17:37	1.0	13	
033	icp data	SAMPLE	480767-010	WET Leachate	309748	03/17/23 17:40	1.0	13	
034	icp data	SAMPLE	480767-012	WET Leachate	309748	03/17/23 17:43	1.0	13	
035	icp data	SAMPLE	480767-014	WET Leachate	309748	03/17/23 17:47	1.0	13	
036	icp data	SAMPLE	480767-015	WET Leachate	309748	03/17/23 17:50	1.0	13	
037	icp data	SAMPLE	480767-017	WET Leachate	309748	03/17/23 17:53	1.0	13	
038	icp data	CCV				03/17/23 17:56	1.0	9	
039	icp data	CCB				03/17/23 17:59	1.0		
040	icp data	SAMPLE	480767-018	WET Leachate	309748	03/17/23 18:03	1.0	13	
041	icp data	SAMPLE	480931-002	TCLP Leachate	309963	03/17/23 18:06	1.0	13	1:NA=1100
042	icp data	MSS	481623-001	TCLP Leachate	309963	03/17/23 18:09	1.0	13	1:NA=970
043	icp data	MS	QC1052713	TCLP Leachate	309963	03/17/23 18:12	1.0	13	1:NA=950
044	icp data	MSD	QC1052714	TCLP Leachate	309963	03/17/23 18:16	1.0	13	1:NA=980
045	icp data	BLANK	QC1052679	WET Leachate	309748	03/17/23 18:19	1.0	13	
046	icp data	BS	QC1052680	WET Leachate	309748	03/17/23 18:22	1.0	13	
047	icp data	BSD	QC1052681	WET Leachate	309748	03/17/23 18:25	1.0	13	
048	icp data	SAMPLE	480858-014	WET Leachate	309355	03/17/23 18:29	1.0	13	
049	icp data	SAMPLE	480858-015	WET Leachate	309355	03/17/23 18:32	1.0	13	
050	icp data	CCV				03/17/23 18:35	1.0	9	

Enthalpy Sequence Summary for Sequence 673110383

Instrument: MET09 Begun: 03/17/23 15:43
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
051	icp data	CCB				03/17/23 18:38	1.0		
052	icp data	SAMPLE	480858-016	WET Leachate	309355	03/17/23 18:41	1.0	13	
053	icp data	SAMPLE	480858-017	WET Leachate	309355	03/17/23 18:45	1.0	13	
054	icp data	SAMPLE	480858-018	WET Leachate	309355	03/17/23 18:48	1.0	13	

Standards Used:
1=S18001 2=S18000 3=S17999 4=S17998 5=S17997 6=S17996 7=S18096 8=S17995 9=S18110 10=S18097 11=S17961 12=S18098 13=S14463

Enthalpy Internal Standard Summary for Sequence 673110383

Date:	03/17/23	Reference:	icp data
Sequence:	MET09 03/17/23	Analyzed:	03/17/23 15:43

#	Type	Sample ID	Y A	Y R
		ICALBLK STD	952535	228232
		LOWER LIMIT	285760	68470
		UPPER LIMIT	1905070	456464
013	ICB		958307	233732
014	ICSA		900539	217821
015	ICSAB		899866	217341
016	BLANK	QC1052699	941950	223606
017	LCS	QC1052700	947519	225268
018	SAMPLE	479778-002	944702	225043
019	BLANK	QC1052772	930963	228522
020	BS	QC1052773	920310	224130
021	BSD	QC1052774	922599	224058
022	SAMPLE	481683-002	934342	225984
023	SAMPLE	481683-004	930856	224188
024	SAMPLE	481683-006	920885	223813
025	SAMPLE	481683-008	928542	224464
026	CCV		986581	239364
027	CCB		1007830	247428
028	SAMPLE	480767-002	997930	242705
029	SAMPLE	480767-004	995617	240502
030	SAMPLE	480767-006	995362	241354
031	SAMPLE	480767-008	997808	242853
032	SAMPLE	480767-009	997308	242859
033	SAMPLE	480767-010	1000133	243785
034	SAMPLE	480767-012	997004	242608
035	SAMPLE	480767-014	995856	242218
036	SAMPLE	480767-015	992288	241308
037	SAMPLE	480767-017	998944	242622
038	CCV		996260	243706
039	CCB		1008587	247374
040	SAMPLE	480767-018	997206	242483
041	SAMPLE	480931-002	951330	227798
042	MSS	481623-001	944414	223215
043	MS	QC1052713	946698	226498
044	MSD	QC1052714	944320	225383
045	BLANK	QC1052679	986192	240497
046	BS	QC1052680	980691	239545
047	BSD	QC1052681	980570	238686
048	SAMPLE	480858-014	978171	236881
049	SAMPLE	480858-015	975977	236379
052	SAMPLE	480858-016	977408	237315
053	SAMPLE	480858-017	975906	237110

ENTHALPY INITIAL CALIBRATION FOR 481683 METALS Wipe: EPA 6010B

Instrument:	MET09		
Calibration #:	673110383001	Date:	17-MAR-2023 15:43
Units:	mg/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	icp data	673110383002	L1	17-MAR-2023 15:47	S18001
L2	icp data	673110383003	L2	17-MAR-2023 15:50	S18000
L3	icp data	673110383004	L3	17-MAR-2023 15:53	S17999
L4	icp data	673110383005	L4	17-MAR-2023 15:56	S17998
L5	icp data	673110383006	L5	17-MAR-2023 16:00	S17997
L6	icp data	673110383007	L6	17-MAR-2023 16:03	S17996

Analyte	Ch	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Flags
Lead	A	WB1K	0.02640	8.19E-5		-10046	1.000		7	0.995	

Instrument amount = a0 + (response × a1) + (response² × a2)
WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	-88009	-19194	10293	12050	12498	12084

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Lead	A	0.0033	**-29**	0.0100	7	0.1000	11	1.0000	1	5.0000	3	10.000	-1

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09		
Calnum:	673110383001	Cal Date:	17-MAR-2023

- ICV 673110383010 (17-MAR-2023) stds: S18110

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	0.9857	mg/L	-1	10	

ENTHALPY INSTRUMENT BLANK FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09			IDF:	1.0
Seqnum:	673110383013	File:	icp data	Time:	17-MAR-2023 16:24
Cal:	673110383001	Caldate:	17-MAR-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	952535	958307	0.61
Yttrium	R	228232	233732	2.41

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09			IDF:	1.0
Seqnum:	673110383014	File:	icp data	Time:	17-MAR-2023 16:27
Cal:	673110383001	Caldate:	17-MAR-2023		

Standards: S17961

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.002256]	0.003333	mg/L	

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Aluminum	A	400.0	337.7	mg/L	84	
Aluminum as Al2O3	A	755.8	638.1	mg/L	84	
Iron	A	160.0	500.9	mg/L	313	
Iron as Fe2O3	A	228.8	716.1	mg/L	313	
Calcium	R	400.0	376.1	mg/L	94	
Calcium as CaCO3	R	998.9	939.2	mg/L	94	
Magnesium	R	400.0	387.0	mg/L	97	
Magnesium as MgCO3	R	1388	1343	mg/L	97	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	952535	900539	-5.46
Yttrium	R	228232	217821	-4.56

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09			IDF:	1.0
Seqnum:	673110383015	File:	icp data	Time:	17-MAR-2023 16:31
Cal:	673110383001	Caldate:	17-MAR-2023		

Standards: S18098

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	0.9724	mg/L	-3	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	952535	899866	-5.53
Yttrium	R	228232	217341	-4.77

ENTHALPY CONTINUING CALIBRATION FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09			IDF:	1.0
Seqnum:	673110383026	File:	icp data	Time:	17-MAR-2023 17:17
Cal:	673110383001	Caldate:	17-MAR-2023		

Standards: S18110

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	-10046	11729	1.000	0.9540	mg/L	-5	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	952535	986581	3.57
Yttrium	R	228232	239364	4.88

ENTHALPY INSTRUMENT BLANK FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09			IDF:	1.0
Seqnum:	673110383027	File:	icp data	Time:	17-MAR-2023 17:21
Cal:	673110383001	Caldate:	17-MAR-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	952535	1007830	5.81
Yttrium	R	228232	247428	8.41

SAMPLE PREPARATION SUMMARY

Batch #:	309984	Method:	3050B	Analysis:	ICP
Started By:	PAJ	Prep Date:	17-MAR-2023 13:40	Finished By:	PAJ

Sample	Matrix	Initial	Final	Prep DF	pH	Spike S18015	Spike S18016	Analysis
481683-002	Wipe	1.02 ft2	50 mL	49.02				6010
481683-004	Wipe	1 ft2	50 mL	50.0				6010
481683-006	Wipe	1 ft2	50 mL	50.0				6010
481683-008	Wipe	1 ft2	50 mL	50.0				6010
QC1052772 BLANK	Wipe	1 ft2	50 mL	50.0				ICP
QC1052773 BS	Wipe	1 ft2	50 mL	50.0		1 mL	1 mL	ICP
QC1052774 BSD	Wipe	1 ft2	50 mL	50.0		1 mL	1 mL	ICP

Analyst: THP 03/17/23

Reviewer: DCD 03/17/23

ICP Prep Log for Soils

Initials: PAJ Prep Method: 3050B QC Batch #: 309984 Therm ID/Corr Factor: a426501 0

Prep Start, Date/Time: 3-17-23 13:40 Prep End, Date/Time: 3-17-23 16:30 HotBlock Temp (Obs/Cor), °C: 92 / 92

HotBlock ID: 3

Sample ID	Bottle #	Sample pH (Water Only)	Sample Appearance	Initial Weight (g)	Bal. ID	Final Vol (mL)	Digestion Tube Lot#	Comment
Blank	-----	-----	-----	—	—	50	M2201800000134	
LCS	-----	-----	-----	↓	↓	↓	↓	
LCSD	—	—	—	↓	↓	↓	↓	
481683-2	A	↓	wipe	wipe	↓	↓	↓	
-4	↓	↓	↓	↓	↓	↓	↓	
-6	↓	↓	↓	↓	↓	↓	↓	
-8	↓	↓	↓	↓	↓	↓	↓	

PAJ 3-17-23

PAJ 3-17-23

Hydrochloric Acid ID: 10ml 2232003 6

Nitric Acid ID: 10ml 202209064 5

H_2O_2 ID: 3ml 031063

LCS Spike ID: 1.0ml (S18015, S18016)

MS/MSD Spike ID:

ICP Prep Log for Soils

Initials: PAJ Prep Method: 3050B QC Batch #: 309984 Therm ID/Corr Factor: a426501 0

Prep Start, Date/Time: 3-17-23 13:40 Prep End, Date/Time: 3-17-23 16:30 HotBlock Temp (Obs/Cor), °C: 92 / 92

HotBlock ID: 3

Sample ID	Bottle #	Sample pH (Water Only)	Sample Appearance	Initial Weight (g)	Bal. ID	Final Vol (mL)	Digestion Tube Lot#	Comment
Blank	-----	-----	-----	—	—	50	MSD0180000	0134
LCS	-----	-----	-----					
LCSD	—	—	—					
481683-2	A		wipe	lumps				
-4								
-6								
-8								

PAJ 3-17-23

PAJ 3-17-23

Hydrochloric Acid ID: 10ml 22320036

Nitric Acid ID: 10ml 20220906 45

H_2O_2 ID: 3ml 031063

LCS Spike ID: 1.0ml (S18015, S18016)

MS/MSD Spike ID:

ICP Raw Data

Enthalpy Sequence Summary for Sequence 673110383

Instrument: MET09 Begun: 03/17/23 15:43

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	icp data	ICALBLK				03/17/23 15:43	1.0		
002	icp data	ICAL	L1			03/17/23 15:47	1.0	1	
003	icp data	ICAL	L2			03/17/23 15:50	1.0	2	
004	icp data	ICAL	L3			03/17/23 15:53	1.0	3	
005	icp data	ICAL	L4			03/17/23 15:56	1.0	4	
006	icp data	ICAL	L5			03/17/23 16:00	1.0	5	
007	icp data	ICAL	L6			03/17/23 16:03	1.0	6	
008	icp data	ICAL	L7			03/17/23 16:06	1.0	7	
009	icp data	ICAL	L8			03/17/23 16:09	1.0	8	
010	icp data	ICV				03/17/23 16:13	1.0	9	
011	icp data	XICB				03/17/23 16:16	1.0		
012	icp data	CRI				03/17/23 16:19	1.0	10	
013	icp data	ICB				03/17/23 16:24	1.0		
014	icp data	ICSA				03/17/23 16:27	1.0	11	6:MGASMGCO3=1300
015	icp data	ICSAB				03/17/23 16:31	1.0	12	6:MGASMGCO3=1400
016	icp data	BLANK	QC1052699	TCLP Leachate	309963	03/17/23 16:45	1.0	13	1:NA=980
017	icp data	LCS	QC1052700	TCLP Leachate	309963	03/17/23 16:48	1.0	13	1:NA=1000
018	icp data	SAMPLE	479778-002	TCLP Leachate	309963	03/17/23 16:52	1.0	13	1:NA=900
019	icp data	BLANK	QC1052772	Wipe	309984	03/17/23 16:55	1.0	13	
020	icp data	BS	QC1052773	Wipe	309984	03/17/23 16:58	1.0	13	
021	icp data	BSD	QC1052774	Wipe	309984	03/17/23 17:01	1.0	13	
022	icp data	SAMPLE	481683-002	Wipe	309984	03/17/23 17:04	1.0	13	1:FE=380
023	icp data	SAMPLE	481683-004	Wipe	309984	03/17/23 17:08	1.0	13	1:FE=360
024	icp data	SAMPLE	481683-006	Wipe	309984	03/17/23 17:11	1.0	13	1:FE=310
025	icp data	SAMPLE	481683-008	Wipe	309984	03/17/23 17:14	1.0	13	1:FE=380
026	icp data	CCV				03/17/23 17:17	1.0	9	
027	icp data	CCB				03/17/23 17:21	1.0		
028	icp data	SAMPLE	480767-002	WET Leachate	309748	03/17/23 17:24	1.0	13	
029	icp data	SAMPLE	480767-004	WET Leachate	309748	03/17/23 17:27	1.0	13	
030	icp data	SAMPLE	480767-006	WET Leachate	309748	03/17/23 17:30	1.0	13	
031	icp data	SAMPLE	480767-008	WET Leachate	309748	03/17/23 17:34	1.0	13	
032	icp data	SAMPLE	480767-009	WET Leachate	309748	03/17/23 17:37	1.0	13	
033	icp data	SAMPLE	480767-010	WET Leachate	309748	03/17/23 17:40	1.0	13	
034	icp data	SAMPLE	480767-012	WET Leachate	309748	03/17/23 17:43	1.0	13	
035	icp data	SAMPLE	480767-014	WET Leachate	309748	03/17/23 17:47	1.0	13	
036	icp data	SAMPLE	480767-015	WET Leachate	309748	03/17/23 17:50	1.0	13	
037	icp data	SAMPLE	480767-017	WET Leachate	309748	03/17/23 17:53	1.0	13	
038	icp data	CCV				03/17/23 17:56	1.0	9	
039	icp data	CCB				03/17/23 17:59	1.0		
040	icp data	SAMPLE	480767-018	WET Leachate	309748	03/17/23 18:03	1.0	13	
041	icp data	SAMPLE	480931-002	TCLP Leachate	309963	03/17/23 18:06	1.0	13	1:NA=1100
042	icp data	MSS	481623-001	TCLP Leachate	309963	03/17/23 18:09	1.0	13	1:NA=970
043	icp data	MS	QC1052713	TCLP Leachate	309963	03/17/23 18:12	1.0	13	1:NA=950
044	icp data	MSD	QC1052714	TCLP Leachate	309963	03/17/23 18:16	1.0	13	1:NA=980
045	icp data	BLANK	QC1052679	WET Leachate	309748	03/17/23 18:19	1.0	13	
046	icp data	BS	QC1052680	WET Leachate	309748	03/17/23 18:22	1.0	13	
047	icp data	BSD	QC1052681	WET Leachate	309748	03/17/23 18:25	1.0	13	
048	icp data	SAMPLE	480858-014	WET Leachate	309355	03/17/23 18:29	1.0	13	
049	icp data	SAMPLE	480858-015	WET Leachate	309355	03/17/23 18:32	1.0	13	
050	icp data	CCV				03/17/23 18:35	1.0	9	

Enthalpy Sequence Summary for Sequence 673110383

Instrument: MET09 Begun: 03/17/23 15:43
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
051	icp data	CCB				03/17/23 18:38	1.0		
052	icp data	SAMPLE	480858-016	WET Leachate	309355	03/17/23 18:41	1.0	13	
053	icp data	SAMPLE	480858-017	WET Leachate	309355	03/17/23 18:45	1.0	13	
054	icp data	SAMPLE	480858-018	WET Leachate	309355	03/17/23 18:48	1.0	13	

Standards Used:
1=S18001 2=S18000 3=S17999 4=S17998 5=S17997 6=S17996 7=S18096 8=S17995 9=S18110 10=S18097 11=S17961 12=S18098 13=S14463

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET09	Lab ID:	481683-002	Client ID:	ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-L-LA
Seqnum:	673110383022	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	icp data	Batch:	309984	Time:	17-MAR-2023 17:04
Cal:	673110383001	Caldate:	17-MAR-2023		
IDF:	1.0	Raw Units:	mg/L	Units:	ug/ft2

- 1.02 ft2 ⇨ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.2919	14	0.25		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	952535	934342	-1.91

u=use

Instrument ID: MET09

Label: 481683-002,309984 | Rack:Tube: 1:7 | Type: Sample
Date Time: 3/17/2023 5:04:59 PM | Weight: 1 | Volume: 1
Dilution: 1 | %RSE limit: - | Calibration Coefficient [3]: -
LIMS ID: | Customer: | Customer Ref.:
Sample Date Time: | Sample Site: | Description:
Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concer Replica
Ag 328.068	Ag	u	-0.00102580	-0.00102580	mg/L	514.53032030	0.00033988	33.13286631	36.63888227	7.12		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	-0.00
Al 396.152	Al		3.74800423	3.74800423	mg/L	206311.26630126	0.10090561	2.69224897	5519.33353527	2.68	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	3.645
As 188.980	As		0.08825716	0.08825716	mg/L	511.67730231	0.01630764	18.47741749	76.37401082	14.93	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	0.070
B 249.678	B		0.00789371	0.00789371	mg/L	1574.94650144	0.00136369	17.27566357	69.66984084	4.42	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.006
Ba 230.424	Ba		0.01463346	0.01463346	mg/L	2323.15305730	0.00030555	2.08804670	42.31222036	1.82	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.014
Be 313.107	Be		0.00033472	0.00033472	mg/L	1183.66169234	0.00000998	2.98052474	30.89848904	2.61	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.000
Ca 317.933	Ca-R		9.38619603	9.38619603	mg/L	162842.49457178	0.09430002	1.00466708	1611.29627052	0.99	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	9.335
Cd 214.439	Cd	u	-0.00018224	-0.00018224	mg/L	409.44198056	0.00005292	29.04047274	14.30895203	3.49	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	-0.00
Co 230.786	Co		0.01610189	0.01610189	mg/L	996.51516738	0.00025462	1.58131526	14.07556653	1.41	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.015
Cr 267.716	Cr		0.04483187	0.04483187	mg/L	3916.87307722	0.00051157	1.14109073	44.86619811	1.15	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.044
Cu 324.754	Cu		0.38894465	0.38894465	mg/L	23359.10496604	0.01184233	3.04473330	689.74199048	2.95	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.376
Fe 259.940	Fe	o	375.72642341	375.72642341	mg/L	8084629.26308342	8.29808798	2.20854522	178552.72025775	2.21	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	367.2
K 766.491	K-R		2.57914780	2.57914780	mg/L	4866.96819912	0.02939157	1.13958458	55.32048040	1.14	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	2.558
Li 670.783	Li-R		0.00398643	0.00398643	mg/L	557.75897621	0.00040813	10.23801073	56.47802765	10.13	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.004
Mg 279.800	Mg-R		5.96154399	5.96154399	mg/L	17589.54602325	0.08071220	1.35388080	233.31651751	1.33	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	5.909
Mn 257.610	Mn		0.73245549	0.73245549	mg/L	477505.95599235	0.01753889	2.39453390	11418.58975466	2.39	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.714
Mo 204.598	Mo		0.05594448	0.05594448	mg/L	817.40243878	0.01577117	28.19075131	192.10805063	23.50	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.038
Na 589.592	Na-R		5.47889708	5.47889708	mg/L	73295.37041186	0.05497211	1.00334261	727.90352957	0.99	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	5.456
Ni 231.604	Ni		0.10791674	0.10791674	mg/L	3443.46580088	0.00294024	2.72454178	91.47884708	2.66	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	0.104
P 177.434	P		0.44296651	0.44296651	mg/L	452.30028764	0.01121334	2.53141901	11.16873556	2.47		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	0.430
Pb 220.353	Pb		0.29188485	0.29188485	mg/L	3405.14803255	0.00835853	2.86364104	105.59553635	3.10	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.282
S 181.972	S		3.57181803	3.57181803	mg/L	7969.41255990	0.05947626	1.66515381	130.25639413	1.63		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	3.506
Sb 206.834	Sb		0.03947454	0.03947454	mg/L	281.04120611	0.00749699	18.99196194	44.49770055	15.83	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.031
Se 196.026	Se		0.20148926	0.20148926	mg/L	674.85035000	0.02210896	10.97277292	67.35041854	9.98	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.176
Si 251.611	Si		9.17812017	9.17812017	mg/L	99621.66350199	0.08851547	0.96441833	951.37289301	0.95		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	9.083
Sn 189.925	Sn		0.07025629	0.07025629	mg/L	1132.79685491	0.00297383	4.23283716	46.27203658	4.08	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.067
Sr 421.552	Sr-R		0.01712320	0.01712320	mg/L	11312.28256357	0.00025776	1.50534343	163.76977959	1.45	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	0.016
Ti 334.941	Ti		0.46819684	0.46819684	mg/L	216043.19392933	0.00544053	1.16201664	2498.73913814	1.16	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.467
Tl 190.794	Tl	u	-0.00294040	-0.00294040	mg/L	-6.16019162	0.00477845	162.51025951	15.16169901	> 100.00	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	0.000
V 292.401	V		0.01454560	0.01454560	mg/L	691.44872665	0.00046814	3.21840963	24.07647369	3.48	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.014
Zn 206.200	Zn		1.64884654	1.64884654	mg/L	129250.80869308	0.03974080	2.41021852	3109.86939586	2.41	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	1.604
Y 371.029	Y		0.98	0.98	Ratio	934342.07	0.02	1.60	14963.36	1.60		-	-	-	Fitted	-	-	0.96
Y 371.029	Y-R		0.99	0.99	Ratio	225983.95	0.01	1.18	2662.90	1.18		-	-	-	Fitted	-	-	1.00

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET09	Lab ID:	481683-004	Client ID:	ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-L-LA
Seqnum:	673110383023	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	icp data	Batch:	309984	Time:	17-MAR-2023 17:08
Cal:	673110383001	Caldate:	17-MAR-2023		
IDF:	1.0	Raw Units:	mg/L	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.3896	19	0.25		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	952535	930856	-2.28

u=use

Instrument ID: MET09

Label:	481683-004,309984	Rack:Tube:	1:8	Type:	Sample
Date Time:	3/17/2023 5:08:13 PM	Weight:	1	Volume:	1
Dilution:	1	%RSE limit:	-	Calibration Coefficient [3]:	-
LIMS ID:		Customer:		Customer Ref.:	
Sample Date Time:		Sample Site:		Description:	
Replicates:	3				

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentrati Replicate 1
Ag 328.068	Ag	u	-0.00119690	-0.00119690	mg/L	495.53969178	0.00065837	55.00633148	70.97241070	14.32		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	-0.00140
Al 396.152	Al		1.86227628	1.86227628	mg/L	103163.97474336	0.04561764	2.44956341	2495.19301543	2.42	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	1.818114
As 188.980	As		0.04041341	0.04041341	mg/L	287.29895159	0.00726544	17.97779304	34.02642167	11.84	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	0.033115
B 249.678	B		0.00427812	0.00427812	mg/L	1389.60107908	0.00096903	22.65090095	49.50712176	3.56	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.003261
Ba 230.424	Ba		0.01275008	0.01275008	mg/L	2060.53854483	0.00018229	1.42973164	25.24329962	1.23	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.012542
Be 313.107	Be		0.00006750	0.00006750	mg/L	357.26430729	0.00001003	14.85853220	31.06389153	8.69	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.000056
Ca 317.933	Ca-R		10.30131474	10.30131474	mg/L	178471.79966867	0.03009216	0.29211960	514.18212015	0.29	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	10.26893
Cd 214.439	Cd	u	-0.00019212	-0.00019212	mg/L	395.32589384	0.00006725	35.00301034	18.18251834	4.60	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	-0.00024
Co 230.786	Co		0.01081865	0.01081865	mg/L	702.78926321	0.00043890	4.05692825	24.26281049	3.45	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.010537
Cr 267.716	Cr		0.06376041	0.06376041	mg/L	5575.29157887	0.00186499	2.92499790	163.56443489	2.93	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.061623
Cu 324.754	Cu		0.28426468	0.28426468	mg/L	17266.20745436	0.00681186	2.39631067	396.74881494	2.30	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.277171
Fe 259.940	Fe	o	364.24327538	364.24327538	mg/L	7837539.44401253	9.11261241	2.50179290	196079.11333397	2.50	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	355.9314
K 766.491	K-R		2.01532582	2.01532582	mg/L	3805.87134487	0.02214358	1.09875910	41.67838710	1.10	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	2.022296
Li 670.783	Li-R		0.00285980	0.00285980	mg/L	402.82168565	0.00020784	7.26759047	28.76110204	7.14	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.002626
Mg 279.800	Mg-R		3.95860645	3.95860645	mg/L	11795.29794012	0.01180893	0.29831032	34.13633574	0.29	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	3.945090
Mn 257.610	Mn		0.55135211	0.55135211	mg/L	359599.83949727	0.01036815	1.88049560	6750.12180175	1.88	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.541665
Mo 204.598	Mo		0.01022161	0.01022161	mg/L	259.81154533	0.00689571	67.46204890	83.99638042	32.33	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.003298
Na 589.592	Na-R		5.05323744	5.05323744	mg/L	67630.72039517	0.02097837	0.41514716	277.78142815	0.41	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	5.030361
Ni 231.604	Ni		0.08198658	0.08198658	mg/L	2636.17760228	0.00204982	2.50019448	63.77566182	2.42	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	0.080138
P 177.434	P		0.33745586	0.33745586	mg/L	347.19741419	0.00718011	2.12771814	7.15154944	2.06		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	0.331696
Pb 220.353	Pb		0.38963695	0.38963695	mg/L	4646.56866148	0.01031322	2.64687857	130.28954924	2.80	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.379250
S 181.972	S		3.74923489	3.74923489	mg/L	8357.81770902	0.06346482	1.69274067	138.99156652	1.66		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	3.685631
Sb 206.834	Sb		0.02567300	0.02567300	mg/L	197.53716651	0.00363960	14.17674928	21.60249661	10.94	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.021916
Se 196.026	Se		0.04113269	0.04113269	mg/L	186.47250704	0.01103746	26.83378056	33.62335224	18.03	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.029065
Si 251.611	Si		4.73487148	4.73487148	mg/L	51865.38057285	0.10788974	2.27862032	1159.60943600	2.24		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	4.627042
Sn 189.925	Sn		0.06226803	0.06226803	mg/L	1008.34976089	0.00302750	4.86204043	47.10700759	4.67	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.059692
Sr 421.552	Sr-R		0.01472657	0.01472657	mg/L	9734.23319299	0.00009064	0.61547020	57.58665651	0.59	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	0.014668
Ti 334.941	Ti		0.24812325	0.24812325	mg/L	114966.50939143	0.00430633	1.73556221	1977.82443417	1.72	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.244036
Tl 190.794	Tl	u	-0.01079506	-0.01079506	mg/L	-31.06328717	0.00035240	3.26443754	1.11813510	3.60	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	-0.01116
V 292.401	V		0.00606428	0.00606428	mg/L	255.70976417	0.00027661	4.56134933	14.22631826	5.56	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.005790
Zn 206.200	Zn		1.31893059	1.31893059	mg/L	103431.61920612	0.03705670	2.80960179	2899.82777904	2.80	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	1.278990
Y 371.029	Y		0.98	0.98	Ratio	930856.47	0.01	1.39	12958.25	1.39		-	-	-	Fitted	-	-	0.96
Y 371.029	Y-R		0.98	0.98	Ratio	224187.96	0.00	0.39	880.60	0.39		-	-	-	Fitted	-	-	0.99

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET09	Lab ID:	481683-006	Client ID:	ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-L-LA
Seqnum:	673110383024	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	icp data	Batch:	309984	Time:	17-MAR-2023 17:11
Cal:	673110383001	Caldate:	17-MAR-2023		
IDF:	1.0	Raw Units:	mg/L	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.1294	6.5	0.25		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	952535	920885	-3.32

u=use

Instrument ID: MET09

Label: 481683-006,309984 | Rack:Tube: 1:9 | Type: Sample
Date Time: 3/17/2023 5:11:27 PM | Weight: 1 | Volume: 1
Dilution: 1 | %RSE limit: - | Calibration Coefficient [3]: -
LIMS ID: | Customer: | Customer Ref.:
Sample Date Time: | Sample Site: | Description:
Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentrati Replicate 1
Ag 328.068	Ag	u	-0.00110259	-0.00110259	mg/L	508.75786055	0.00012273	11.13085206	13.23003226	2.60		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	-0.00113
Al 396.152	Al		2.34500103	2.34500103	mg/L	129558.59967009	0.05233858	2.23192121	2862.81473052	2.21	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	2.292614
As 188.980	As		0.03565598	0.03565598	mg/L	264.20358682	0.00429411	12.04317769	20.11073247	7.61	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	0.032075
B 249.678	B		0.00515192	0.00515192	mg/L	1414.09159926	0.00147435	28.61741818	75.32320636	5.33	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.003549
Ba 230.424	Ba		0.01891236	0.01891236	mg/L	2912.26623731	0.00043071	2.27742034	59.64411148	2.05	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.018453
Be 313.107	Be		0.00006835	0.00006835	mg/L	367.14586483	0.00001415	20.70010145	43.82156588	11.94	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.000066
Ca 317.933	Ca-R		9.80690521	9.80690521	mg/L	170006.90889180	0.03636770	0.37083766	621.41169501	0.37	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	9.797393
Cd 214.439	Cd	u	-0.00032376	-0.00032376	mg/L	300.99584950	0.00002815	8.69373504	7.61024924	2.53	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	-0.00035
Co 230.786	Co		0.01007720	0.01007720	mg/L	651.24336268	0.00049636	4.92558754	27.43901478	4.21	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.009687
Cr 267.716	Cr		0.04952827	0.04952827	mg/L	4319.78869966	0.00147338	2.97483548	129.21956646	2.99	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.048241
Cu 324.754	Cu		0.23031635	0.23031635	mg/L	14158.28447395	0.00598553	2.59882970	348.61991408	2.46	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.224162
Fe 259.940	Fe	o	313.67283280	313.67283280	mg/L	6749399.08078222	6.46411925	2.06078390	139090.60477853	2.06	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	306.6663
K 766.491	K-R		1.78246215	1.78246215	mg/L	3373.98201257	0.02571808	1.44284041	48.40628595	1.43	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	1.812139
Li 670.783	Li-R		0.00316505	0.00316505	mg/L	442.25257292	0.00011893	3.75763753	16.45794391	3.72	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.003032
Mg 279.800	Mg-R		4.33153582	4.33153582	mg/L	12847.05353125	0.02165150	0.49985741	62.58847188	0.49	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	4.325693
Mn 257.610	Mn		0.66486827	0.66486827	mg/L	433506.76880524	0.01303584	1.96066444	8486.90074602	1.96	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.653445
Mo 204.598	Mo		0.00551199	0.00551199	mg/L	202.09430963	0.00493875	89.60022794	60.15878284	29.77	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.000425
Na 589.592	Na-R		4.13465401	4.13465401	mg/L	55522.02308132	0.01384526	0.33485892	183.32954835	0.33	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	4.129748
Ni 231.604	Ni		0.09563557	0.09563557	mg/L	3061.89353068	0.00246625	2.57880308	76.73191315	2.51	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	0.093075
P 177.434	P		0.37490645	0.37490645	mg/L	384.35304925	0.00870356	2.32152888	8.66894159	2.26		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	0.366236
Pb 220.353	Pb		0.12944225	0.12944225	mg/L	1349.01077376	0.00304374	2.35142656	38.45235220	2.85	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.126042
S 181.972	S		3.41101625	3.41101625	mg/L	7617.40289225	0.04618704	1.35405511	101.15223852	1.33		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	3.362414
Sb 206.834	Sb		0.01929115	0.01929115	mg/L	148.30106933	0.00783528	40.61595138	46.50562296	31.36	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.010297
Se 196.026	Se		0.03613501	0.03613501	mg/L	172.47132241	0.00893101	24.71566616	27.20649063	15.77	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.026745
Si 251.611	Si		5.69640776	5.69640776	mg/L	62204.53319771	0.05806683	1.01935880	624.10796488	1.00		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	5.634115
Sn 189.925	Sn		0.07130306	0.07130306	mg/L	1148.60171607	0.00294881	4.13559827	45.88263023	3.99	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.068232
Sr 421.552	Sr-R		0.01459781	0.01459781	mg/L	9651.98095875	0.00011698	0.80136959	74.32483732	0.77	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	0.014520
Ti 334.941	Ti		0.31322804	0.31322804	mg/L	144868.95699469	0.01006567	3.21352853	4622.98937274	3.19	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.301605
Tl 190.794	Tl	u	-0.01143724	-0.01143724	mg/L	-32.93183315	0.00130285	11.39132863	4.13386672	12.55	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	-0.01269
V 292.401	V		0.00881369	0.00881369	mg/L	402.26403440	0.00011956	1.35652382	6.14900739	1.53	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.008679
Zn 206.200	Zn		1.03694391	1.03694391	mg/L	81359.49606123	0.02274941	2.19388979	1780.22774767	2.19	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	1.011869
Y 371.029	Y		0.97	0.97	Ratio	920884.63	0.02	1.73	15910.16	1.73		-	-	-	Fitted	-	-	0.95
Y 371.029	Y-R		0.98	0.98	Ratio	223812.50	0.01	0.71	1596.03	0.71		-	-	-	Fitted	-	-	0.98

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET09	Lab ID:	481683-008	Client ID:	ARCH-C3E-DG-2.5 TO 3-230316-L-FB
Seqnum:	673110383025	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	icp data	Batch:	309984	Time:	17-MAR-2023 17:14
Cal:	673110383001	Caldate:	17-MAR-2023		
IDF:	1.0	Raw Units:	mg/L	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.1600	8.0	0.25		u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	952535	928542	-2.52

u=use

Instrument ID: MET09

Label: 481683-008,309984 | Rack:Tube: 1:10 | Type: Sample
Date Time: 3/17/2023 5:14:41 PM | Weight: 1 | Volume: 1
Dilution: 1 | %RSE limit: - | Calibration Coefficient [3]: -
LIMS ID: | Customer: | Customer Ref.:
Sample Date Time: | Sample Site: | Description:
Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concent Replicat
Ag 328.068	Ag	u	-0.00072953	-0.00072953	mg/L	546.48797509	0.00062256	85.33641063	67.11149848	12.28		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	-0.000
Al 396.152	Al		3.96820800	3.96820800	mg/L	218358.45800770	0.15894231	4.00539253	8693.82429998	3.98	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	3.8015
As 188.980	As		0.02596194	0.02596194	mg/L	220.09678674	0.00627962	24.18778620	29.40950210	13.36	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	0.0202
B 249.678	B		0.00181319	0.00181319	mg/L	1270.85183425	0.00052599	29.00898567	26.87229396	2.11	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.0015
Ba 230.424	Ba		0.01318169	0.01318169	mg/L	2122.77057716	0.00047632	3.61346980	65.95902977	3.11	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.0126
Be 313.107	Be		0.00007006	0.00007006	mg/L	362.84961499	0.00001054	15.04216267	32.63803160	8.99	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.0000
Ca 317.933	Ca-R		10.47319533	10.47319533	mg/L	181419.37104792	0.02160480	0.20628663	369.15937638	0.20	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	10.451
Cd 214.439	Cd	u	-0.00030298	-0.00030298	mg/L	387.43040046	0.00006891	22.74387433	18.63121167	4.81	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	-0.000
Co 230.786	Co		0.02444277	0.02444277	mg/L	1459.42915130	0.00099335	4.06397819	54.91264133	3.76	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.0234
Cr 267.716	Cr		0.06754078	0.06754078	mg/L	5909.93822339	0.00198946	2.94556904	174.48074515	2.95	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.0665
Cu 324.754	Cu		0.28172897	0.28172897	mg/L	17108.72435741	0.01119671	3.97428304	652.13859630	3.81	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.2696
Fe 259.940	Fe	o	376.25699235	376.25699235	mg/L	8096046.01002840	14.66790694	3.89837458	315614.23443501	3.90	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	360.32
K 766.491	K-R		2.41765057	2.41765057	mg/L	4561.70876033	0.03424495	1.41645583	64.45546083	1.41	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	2.4117
Li 670.783	Li-R		0.00384454	0.00384454	mg/L	538.39496829	0.00024112	6.27166409	33.36620592	6.20	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.0041
Mg 279.800	Mg-R		5.87764116	5.87764116	mg/L	17351.66145936	0.01557019	0.26490534	45.00907517	0.26	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	5.8597
Mn 257.610	Mn		0.84315459	0.84315459	mg/L	549576.08827076	0.03190475	3.78397427	20771.39321210	3.78	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.8097
Mo 204.598	Mo		0.00434166	0.00434166	mg/L	188.98152778	0.00447959	103.17695500	54.56577977	28.87	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.0002
Na 589.592	Na-R		4.87696167	4.87696167	mg/L	65317.64212972	0.01055179	0.21635994	139.71968973	0.21	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	4.8707
Ni 231.604	Ni		0.13765090	0.13765090	mg/L	4368.46690525	0.00559121	4.06187976	173.95803981	3.98	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	0.1318
P 177.434	P		0.40037639	0.40037639	mg/L	409.90291945	0.01406064	3.51185627	14.00471499	3.42		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	0.3845
Pb 220.353	Pb		0.15999387	0.15999387	mg/L	1739.32036892	0.00732126	4.57596297	92.49138069	5.32	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.1520
S 181.972	S		3.40221534	3.40221534	mg/L	7597.98278719	0.09910681	2.91300817	217.04954050	2.86		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	3.2936
Sb 206.834	Sb		0.00491844	0.00491844	mg/L	77.90214522	0.00408635	83.08208959	24.25414050	31.13	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.0007
Se 196.026	Se		0.02226181	0.02226181	mg/L	128.67569663	0.00719246	32.30848944	21.91034517	17.03	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.0154
Si 251.611	Si		8.82672414	8.82672414	mg/L	95844.21928911	0.26340894	2.98422086	2831.14487628	2.95		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	8.5618
Sn 189.925	Sn		0.06217419	0.06217419	mg/L	1007.09896644	0.00332121	5.34178036	51.67708118	5.13	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.0585
Sr 421.552	Sr-R		0.01639760	0.01639760	mg/L	10872.60181825	0.00009199	0.56100749	58.44701626	0.54	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	0.0163
Ti 334.941	Ti		0.39125536	0.39125536	mg/L	180704.97020979	0.00894432	2.28605615	4107.97028318	2.27	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.3993
Tl 190.794	Tl	u	-0.01228931	-0.01228931	mg/L	-35.85081088	0.00111295	9.05623903	3.53131251	9.85	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	-0.012
V 292.401	V		0.01574934	0.01574934	mg/L	752.50649938	0.00078541	4.98692960	40.39387564	5.37	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.0150
Zn 206.200	Zn		1.14444217	1.14444217	mg/L	89780.52480309	0.04851516	4.23919706	3796.49606228	4.23	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	1.0898
Y 371.029	Y		0.97	0.97	Ratio	928542.33	0.01	1.35	12510.09	1.35		-	-	-	Fitted	-	-	0.96
Y 371.029	Y-R		0.98	0.98	Ratio	224463.71	0.00	0.43	972.97	0.43		-	-	-	Fitted	-	-	0.99

ENTHALPY BLANK USER REPORT FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09	Lab ID:	QC1052772		
Seqnum:	673110383019.1	Matrix:	Wipe		
File:	icp data	Batch:	309984	Time:	17-MAR-2023 16:55
Cal:	673110383001	Caldate:	17-MAR-2023		
IDF:	1.0	Raw Units:	mg/L	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Flags
Lead	A	-0.0008941	ND	0.25	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BLANK Abund	%Drift
Yttrium	A	952535	930963	-2.26

u=use

Instrument ID: MET09

Label: BLANK,QC1052772,309984 | Rack:Tube: 1:4 | Type: Sample
Date Time: 3/17/2023 4:55:16 PM | Weight: 1 | Volume: 1
Dilution: 1 | %RSE limit: - | Calibration Coefficient [3]: -
LIMS ID: | Customer: | Customer Ref.:
Sample Date Time: | Sample Site: | Description:
Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	u	0.00021503	0.00021503	mg/L	660.34770461	0.00054973	255.64900081	59.26044816	8.97		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	-0.00007704
Al 396.152	Al		0.00785855	0.00785855	mg/L	1660.03900473	0.00025002	3.18149986	13.67557062	0.82	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	0.00774987
As 188.980	As		0.01124377	0.01124377	mg/L	144.85402711	0.00967312	86.03098180	45.30239503	31.27	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	0.00114423
B 249.678	B		0.01068429	0.01068429	mg/L	1562.29530834	0.00346204	32.40312214	176.87296558	11.32	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.00697591
Ba 230.424	Ba		0.00032144	0.00032144	mg/L	323.80678112	0.00018471	57.46328739	25.57787318	7.90	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.00050884
Be 313.107	Be		0.00008728	0.00008728	mg/L	464.92726061	0.00000728	8.33862444	22.54148474	4.85	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.00008156
Ca 317.933	Ca-R	u	-0.00461712	-0.00461712	mg/L	2253.27262637	0.00081888	17.73565810	13.99206597	0.62	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	-0.00551073
Cd 214.439	Cd	u	-0.00002352	-0.00002352	mg/L	58.74886593	0.00003002	127.63335177	8.11640710	13.82	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	0.00000191
Co 230.786	Co		0.00043580	0.00043580	mg/L	61.25004292	0.00010389	23.83952353	5.74315864	9.38	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.00031948
Cr 267.716	Cr		0.00007126	0.00007126	mg/L	-59.04670669	0.00001653	23.19929011	1.44984510	2.46	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.00007456
Cu 324.754	Cu	u	-0.00003830	-0.00003830	mg/L	922.32452842	0.00069320	1810.10519815	40.37441977	4.38	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.00076022
Fe 259.940	Fe		0.05291959	0.05291959	mg/L	1128.85942705	0.00947933	17.91271135	203.96996298	18.07	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	0.04246052
K 766.491	K-R		0.02887785	0.02887785	mg/L	107.45049789	0.01226027	42.45560488	23.07613336	21.48	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	0.02881767
Li 670.783	Li-R	u	0.00000821	0.00000821	mg/L	-4.53539050	0.00006745	821.97969867	9.33400541	> 100.00	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.00007077
Mg 279.800	Mg-R	u	-0.03792517	-0.03792517	mg/L	72.96143857	0.00157578	4.15497363	4.55514379	6.24	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	-0.03841811
Mn 257.610	Mn		0.00535831	0.00535831	mg/L	4144.26972337	0.00020215	3.77263302	131.60816700	3.18	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.00515244
Mo 204.598	Mo		0.03084091	0.03084091	mg/L	507.38253323	0.01547977	50.19232636	188.55854581	37.16	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.01464407
Na 589.592	Na-R		0.06974443	0.06974443	mg/L	1404.01936791	0.01708737	24.49998190	226.25944178	16.12	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	0.08812153
Ni 231.604	Ni	u	-0.00124906	-0.00124906	mg/L	50.57306744	0.00037662	30.15206613	11.71764490	23.17	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	-0.00143817
P 177.434	P		0.00780253	0.00780253	mg/L	17.96344635	0.00244409	31.32432825	2.43436745	13.55		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	0.00720322
Pb 220.353	Pb	u	-0.00089405	-0.00089405	mg/L	-334.39860427	0.00039402	44.07142065	4.97775564	1.49	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	-0.00073297
S 181.972	S		0.07945743	0.07945743	mg/L	321.78558255	0.00471290	5.93135718	10.32152747	3.21		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	0.07416024
Sb 206.834	Sb		0.01236547	0.01236547	mg/L	46.19889259	0.00060372	4.88228018	3.58330848	7.76	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.01175496
Se 196.026	Se		0.07109681	0.07109681	mg/L	285.44840284	0.01571119	22.09829758	47.86091045	16.77	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.05360741
Si 251.611	Si		0.03279719	0.03279719	mg/L	1353.85437157	0.00464539	14.16399163	49.92911268	3.69		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	0.02901911
Sn 189.925	Sn		0.01813170	0.01813170	mg/L	319.22953782	0.00163835	9.03582821	25.49225765	7.99	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.01655950
Sr 421.552	Sr-R	u	0.00001104	0.00001104	mg/L	147.18447049	0.00002317	209.91152111	14.71970107	10.00	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	0.00000199
Ti 334.941	Ti		0.00185714	0.00185714	mg/L	1867.41842914	0.00096154	51.77520145	441.61675199	23.65	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.00099268
Tl 190.794	Tl	u	-0.00198742	-0.00198742	mg/L	-2.09229091	0.00176471	88.79412186	5.59931806	> 100.00	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	-0.00402421
V 292.401	V		0.00028918	0.00028918	mg/L	-9.47242639	0.00016205	56.03794909	8.33422607	87.98	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.00016234
Zn 206.200	Zn		0.00516972	0.00516972	mg/L	584.18748589	0.00022872	4.42429493	17.89850347	3.06	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	0.00490593
Y 371.029	Y		0.98	0.98	Ratio	930963.00	0.02	1.56	14483.42	1.56		-	-	-	Fitted	-	-	0.96
Y 371.029	Y-R		1.00	1.00	Ratio	228522.17	0.00	0.25	578.65	0.25		-	-	-	Fitted	-	-	1.00

ENTHALPY SPIKE USER REPORT FOR 481683 METALS Wipe

EPA 6010B

Type:	BS	Type:	BSD
Inst:	MET09	Inst:	MET09
Seqnum:	673110383020.1	Seqnum:	673110383021.1
File:	icp data	File:	icp data
IDF:	1.0	IDF:	1.0
Lab ID:	QC1052773	Lab ID:	QC1052774
Matrix:	Wipe	Matrix:	Wipe
Batch:	309984	Batch:	309984
Time:	17-MAR-2023 16:58	Time:	17-MAR-2023 17:01
Cal:	673110383001	Cal:	673110383001
Units:	ug/ft2		

- BS: 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF
- BSD: 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Lead	100.0	1.878	93.92	A	94	1.923	96.14	A	96	80-120	2	20	u

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BS Abund	%Drift
Yttrium	A	952535	920310	-3.38

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BSD Abund	%Drift
Yttrium	A	952535	922599	-3.14

u=use

Instrument ID: MET09

Label:	BS,QC1052773,309984	Rack:Tube:	1:5	Type:	Sample
Date Time:	3/17/2023 4:58:30 PM	Flags:		Weight:	1
Volume:	1	Dilution:	1	%RSE limit:	-
Calibration Coefficient [3]:	-	LIMS ID:		Customer:	
Customer Ref.:		Sample Date Time:		Sample Site:	
Description:		Replicates:	3	Flags Replicate 1:	
Flags Replicate 2:		Flags Replicate 3:			

Element	Element Label	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Co Re
Ag 328.068	Ag	0.91366952	0.91366952	mg/L	99134.70923399	0.02048527	2.24208719	2208.31377399	2.23		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	0.89130043	0.9
Al 396.152	Al	1.65050275	1.65050275	mg/L	91533.39178123	0.05061348	3.06654949	2768.45569720	3.02	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	1.59867509	1.6
As 188.980	As	2.06599371	2.06599371	mg/L	9768.23878387	0.04328314	2.09502763	202.70905050	2.08	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	2.02525373	2.0
B 249.678	B	1.73546342	1.73546342	mg/L	89676.82146030	0.05041613	2.90505265	2575.71908913	2.87	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	1.68176713	1.7
Ba 230.424	Ba	1.89698534	1.89698534	mg/L	262970.59604863	0.05825627	3.07099229	8067.17322669	3.07	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	1.83665871	1.9
Be 313.107	Be	1.87848235	1.87848235	mg/L	5818218.35260713	0.05814777	3.09546530	180094.96018551	3.10	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	1.81960589	1.8
Ca 317.933	Ca-R	1.94585118	1.94585118	mg/L	35609.31504284	0.00343583	0.17657200	58.70769904	0.16	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	1.94966411	1.9
Cd 214.439	Cd	1.89740665	1.89740665	mg/L	513086.91735263	0.03775314	1.98972297	10207.54205927	1.99	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	1.86066922	1.8
Co 230.786	Co	1.91978664	1.91978664	mg/L	106164.11738112	0.05517528	2.87403201	3050.10757336	2.87	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	1.86306374	1.9
Cr 267.716	Cr	1.86427473	1.86427473	mg/L	163437.02786642	0.05406312	2.89995454	4741.47331747	2.90	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	1.80808886	1.8
Cu 324.754	Cu	1.85150212	1.85150212	mg/L	108761.30470387	0.05512227	2.97716480	3210.52974563	2.95	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	1.79388143	1.8
Fe 259.940	Fe	7.02999157	7.02999157	mg/L	151262.08348290	0.20453648	2.90948399	4401.07947476	2.91	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	6.82182902	7.0
K 766.491	K-R	17.97056044	17.97056044	mg/L	33875.63713774	0.02220668	0.12357252	41.79715197	0.12	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	17.98664110	17
Li 670.783	Li-R	1.89794123	1.89794123	mg/L	262640.15695954	0.00191760	0.10103588	265.36179184	0.10	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	1.89878432	1.8
Mg 279.800	Mg-R	1.85790280	1.85790280	mg/L	5557.05771478	0.00664572	0.35770029	19.21093859	0.35	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	1.85330354	1.8
Mn 257.610	Mn	1.87104660	1.87104660	mg/L	1218793.62563519	0.05478118	2.92783643	35664.95331167	2.93	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	1.81273574	1.8
Mo 204.598	Mo	2.36545255	2.36545255	mg/L	28945.65802839	0.07928978	3.35199216	965.82609408	3.34	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	2.28379291	2.3
Na 589.592	Na-R	1.66441064	1.66441064	mg/L	43539.72690218	0.01677993	1.00816028	222.18845736	0.51	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	1.68311370	1.6
Ni 231.604	Ni	1.86061389	1.86061389	mg/L	57979.41393220	0.05175924	2.78183655	1610.37216360	2.78	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	1.80759409	1.8
P 177.434	P	0.01316449	0.01316449	mg/L	23.31630338	0.00213491	16.21719681	2.12641927	9.12		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	0.01493779	0.0
Pb 220.353	Pb	1.87843975	1.87843975	mg/L	23402.48950374	0.04507200	2.39943828	569.40632287	2.43	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	1.83060781	1.8
S 181.972	S	0.07151575	0.07151575	mg/L	304.57907785	0.00453155	6.33643535	9.92434974	3.26		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	0.06636738	0.0
Sb 206.834	Sb	1.65427994	1.65427994	mg/L	9791.67285706	0.03338481	2.01808732	198.15254686	2.02	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	1.61896510	1.6
Se 196.026	Se	2.20504532	2.20504532	mg/L	6785.98813801	0.08690946	3.94139126	264.75189604	3.90	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	2.14182886	2.1
Si 251.611	Si	8.80953332	8.80953332	mg/L	95689.71809559	0.20970863	2.38047375	2253.96868130	2.36		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	8.59152661	8.8
Sn 189.925	Sn	0.01759618	0.01759618	mg/L	311.14236774	0.00113980	6.47753255	17.73494828	5.70	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.01640979	0.0
Sr 421.552	Sr-R	1.88978857	1.88978857	mg/L	1200917.16010521	0.00857803	0.45391500	5450.05770782	0.45	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	1.88908879	1.8
Ti 334.941	Ti	1.87253925	1.87253925	mg/L	861041.46982063	0.05257742	2.80781402	24147.89973263	2.80	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	1.81815380	1.8
Tl 190.794	Tl	2.77568274	2.77568274	mg/L	8811.21941260	0.12083756	4.35343551	383.40948299	4.35	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	2.64951700	2.7
V 292.401	V	1.83278314	1.83278314	mg/L	94237.22469579	0.05581888	3.04558009	2870.78772698	3.05	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	1.77443668	1.8
Zn 206.200	Zn	1.88736697	1.88736697	mg/L	147876.40167963	0.04277515	2.26639304	3347.31877698	2.26	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	1.84141725	1.8
Y 371.029	Y	0.97	0.97	Ratio	920310.15	0.02	1.57	14412.65	1.57		-	-	-	Fitted	-	-	0.95	0.9
Y 371.029	Y-R	0.98	0.98	Ratio	224130.44	0.00	0.42	946.52	0.42		-	-	-	Fitted	-	-	0.98	0.9

Instrument ID: MET09

Label:	BSD,QC1052774,309984	Rack:Tube:	1:6	Type:	Sample
Date Time:	3/17/2023 5:01:45 PM	Flags:		Weight:	1
Volume:	1	Dilution:	1	%RSE limit:	-
Calibration Coefficient [3]:	-	LIMSID:		Customer:	
Customer Ref.:		Sample Date Time:		Sample Site:	
Description:		Replicates:	3	Flags Replicate 1:	
Flags Replicate 2:		Flags Replicate 3:			

Element	Element Label	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Co Re
Ag 328.068	Ag	0.93549872	0.93549872	mg/L	101488.00645437	0.02298806	2.45730562	2478.11534367	2.44		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	0.90959501	0.9
Al 396.152	Al	1.68440455	1.68440455	mg/L	93388.42286575	0.05903475	3.50478443	3229.08192272	3.46	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	1.62190847	1.6
As 188.980	As	2.16860772	2.16860772	mg/L	10248.82316391	0.05464547	2.51984122	255.92255653	2.50	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	2.11415761	2.1
B 249.678	B	1.77330364	1.77330364	mg/L	91610.00191838	0.05834164	3.28999697	2980.62696923	3.25	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	1.70974915	1.7
Ba 230.424	Ba	1.93735438	1.93735438	mg/L	268560.84348575	0.06963011	3.59408207	9642.19123744	3.59	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	1.86312400	1.9
Be 313.107	Be	1.91842192	1.91842192	mg/L	5941918.89734005	0.06603973	3.44239877	204537.90625634	3.44	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	1.84975547	1.9
Ca 317.933	Ca-R	2.00773678	2.00773678	mg/L	36667.54139435	0.02698298	1.34395004	461.05582236	1.26	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	1.99809475	2.0
Cd 214.439	Cd	1.93638875	1.93638875	mg/L	523627.00678334	0.04971081	2.56719164	13440.61023095	2.57	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	1.89154089	1.9
Co 230.786	Co	1.96248899	1.96248899	mg/L	108524.73796001	0.06730536	3.42959156	3720.66202975	3.43	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	1.89065607	1.9
Cr 267.716	Cr	1.90656408	1.90656408	mg/L	167145.93326773	0.06555841	3.43856320	5749.63963289	3.44	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	1.83702044	1.9
Cu 324.754	Cu	1.89370057	1.89370057	mg/L	111219.03576292	0.06526154	3.44624375	3801.07909994	3.42	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	1.82367165	1.9
Fe 259.940	Fe	7.21098900	7.21098900	mg/L	155156.81113903	0.23467161	3.25436100	5049.50720093	3.25	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	6.95765520	7.2
K 766.491	K-R	18.42822722	18.42822722	mg/L	34737.01032810	0.22015582	1.19466631	414.37478758	1.19	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	18.33840625	18
Li 670.783	Li-R	1.95026608	1.95026608	mg/L	269881.10578548	0.02153257	1.10408367	2979.72269631	1.10	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	1.94211179	1.9
Mg 279.800	Mg-R	1.90852963	1.90852963	mg/L	5703.52450439	0.02266417	1.18751978	65.51580210	1.15	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	1.89279202	1.9
Mn 257.610	Mn	1.91511083	1.91511083	mg/L	1247481.49521812	0.07264807	3.79341345	47297.08057010	3.79	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	1.83934595	1.9
Mo 204.598	Mo	2.45947167	2.45947167	mg/L	30090.91302124	0.09906039	4.02771018	1206.65116441	4.01	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	2.35517672	2.4
Na 589.592	Na-R	1.68638490	1.68638490	mg/L	44403.87754969	0.03688872	2.18744388	488.45555415	1.10	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	1.68279229	1.7
Ni 231.604	Ni	1.90128405	1.90128405	mg/L	59244.80839315	0.06498310	3.41785342	2021.80294097	3.41	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	1.83258355	1.9
P 177.434	P	0.01223803	0.01223803	mg/L	22.39391820	0.00349034	28.52045574	3.47645914	15.52		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	0.01074378	0.0
Pb 220.353	Pb	1.92279092	1.92279092	mg/L	23962.66955538	0.05327341	2.77062961	673.01689419	2.81	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	1.86535191	1.9
S 181.972	S	0.06139639	0.06139639	mg/L	282.42250213	0.00404503	6.58838779	8.85884974	3.14		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	0.05724990	0.0
Sb 206.834	Sb	1.72752926	1.72752926	mg/L	10226.44526958	0.04786260	2.77058087	284.08411144	2.78	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	1.67663993	1.7
Se 196.026	Se	2.47940579	2.47940579	mg/L	7621.76740345	0.09796614	3.95119422	298.43379350	3.92	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	2.38552606	2.4
Si 251.611	Si	9.08285252	9.08285252	mg/L	98627.44770366	0.26592518	2.92777163	2858.18963015	2.90		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	8.79517443	9.1
Sn 189.925	Sn	0.01871076	0.01871076	mg/L	328.49190864	0.00037547	2.00672782	5.84227011	1.78	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.01849971	0.0
Sr 421.552	Sr-R	1.92983076	1.92983076	mg/L	1226360.61977343	0.02784566	1.44290707	17691.75582784	1.44	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	1.92044157	1.9
Ti 334.941	Ti	1.92059098	1.92059098	mg/L	883110.85175025	0.06373217	3.31836243	29271.08343093	3.31	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	1.85131003	1.9
Tl 190.794	Tl	2.85976969	2.85976969	mg/L	9078.02030388	0.12049917	4.21359703	382.33580261	4.21	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	2.73206717	2.8
V 292.401	V	1.87120441	1.87120441	mg/L	96213.26502483	0.06639207	3.54809268	3414.57110709	3.55	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	1.80123248	1.8
Zn 206.200	Zn	1.93850243	1.93850243	mg/L	151878.03543542	0.04778170	2.46487713	3739.10034017	2.46	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	1.88448616	1.9
Y 371.029	Y	0.97	0.97	Ratio	922598.87	0.02	1.67	15442.45	1.67		-	-	-	Fitted	-	-	0.95	0.9
Y 371.029	Y-R	0.98	0.98	Ratio	224057.66	0.01	1.09	2449.34	1.09		-	-	-	Fitted	-	-	0.99	0.9

ENTHALPY INITIAL CALIBRATION FOR 481683 METALS Wipe: EPA 6010B

Instrument:	MET09		
Calibration #:	673110383001	Date:	17-MAR-2023 15:43
Units:	mg/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	icp data	673110383002	L1	17-MAR-2023 15:47	S18001
L2	icp data	673110383003	L2	17-MAR-2023 15:50	S18000
L3	icp data	673110383004	L3	17-MAR-2023 15:53	S17999
L4	icp data	673110383005	L4	17-MAR-2023 15:56	S17998
L5	icp data	673110383006	L5	17-MAR-2023 16:00	S17997
L6	icp data	673110383007	L6	17-MAR-2023 16:03	S17996

Analyte	Ch	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Flags
Lead	A	WB1K	0.02640	8.19E-5		-10046	1.000		7	0.995	

Instrument amount = a0 + (response × a1) + (response² × a2)
WB1K: Linear regression with ICALBLK weighting factor of 1000

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF
Lead	A	-88009	-19194	10293	12050	12498	12084

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D
Lead	A	0.0033	**-29**	0.0100	7	0.1000	11	1.0000	1	5.0000	3	10.000	-1

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09		
Calnum:	673110383001	Cal Date:	17-MAR-2023

- ICV 673110383010 (17-MAR-2023) stds: S18110

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	0.9857	mg/L	-1	10	

Instrument ID: MET09

Label:	ICALBLK	Rack:Tube:	S1:1	Type:	BLK
Date Time:	3/17/2023 3:43:57 PM	Flags:		Weight:	-
Volume:	-	Dilution:	-	%RSE limit:	-
Calibration Coefficient [3]:	-	LIMSID:		Customer:	
Customer Ref.:		Sample Date Time:		Sample Site:	
Description:		Replicates:	3	Flags Replicate 1:	
Flags Replicate 2:		Flags Replicate 3:			

Element	Element Label	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2	C R
Ag 328.068	Ag	0.00000000	0.00000000	mg/L	637.17244294	-	-	84.30537095	13.23		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	0.00000000	0.00000000	0
Al 396.152	Al	0.00000000	0.00000000	mg/L	1169.69801508	-	-	34.76161481	2.97	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	0.00000000	0.00000000	0
As 188.980	As	0.00000000	0.00000000	mg/L	96.64835175	-	-	1.07569426	1.11	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	0.00000000	0.00000000	0
B 249.678	B	0.00000000	0.00000000	mg/L	1015.06084588	-	-	7.74734578	0.76	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.00000000	0.00000000	0
Ba 230.424	Ba	0.00000000	0.00000000	mg/L	295.69284390	-	-	17.98236507	6.08	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.00000000	0.00000000	0
Be 313.107	Be	0.00000000	0.00000000	mg/L	205.84678398	-	-	16.59864136	8.06	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.00000000	0.00000000	0
Ca 317.933	Ca-R	0.00000000	0.00000000	mg/L	1997.42306534	-	-	11.65481849	0.58	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	0.00000000	0.00000000	0
Cd 214.439	Cd	0.00000000	0.00000000	mg/L	72.11948704	-	-	7.13176519	9.89	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	0.00000000	0.00000000	0
Co 230.786	Co	0.00000000	0.00000000	mg/L	63.68759730	-	-	13.60538018	21.36	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.00000000	0.00000000	0
Cr 267.716	Cr	0.00000000	0.00000000	mg/L	-57.48564908	-	-	5.26589116	9.16	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.00000000	0.00000000	0
Cu 324.754	Cu	0.00000000	0.00000000	mg/L	950.70532498	-	-	20.40375776	2.15	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.00000000	0.00000000	0
Fe 259.940	Fe	0.00000000	0.00000000	mg/L	143.93090204	-	-	20.91417482	14.53	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	0.00000000	0.00000000	0
K 766.491	K-R	0.00000000	0.00000000	mg/L	166.24669625	-	-	41.16634179	24.76	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	0.00000000	0.00000000	0
Li 670.783	Li-R	0.00000000	0.00000000	mg/L	0.00000000	-	-	32.83392352	> 100.00	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.00000000	0.00000000	0
Mg 279.800	Mg-R	0.00000000	0.00000000	mg/L	46.63365769	-	-	14.31542918	30.70	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	0.00000000	0.00000000	0
Mn 257.610	Mn	0.00000000	0.00000000	mg/L	673.03531510	-	-	27.37579144	4.07	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.00000000	0.00000000	0
Mo 204.598	Mo	0.00000000	0.00000000	mg/L	429.84078012	-	-	33.74819103	7.85	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.00000000	0.00000000	0
Na 589.592	Na-R	0.00000000	0.00000000	mg/L	278.94800028	-	-	57.93741420	20.77	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	0.00000000	0.00000000	0
Ni 231.604	Ni	0.00000000	0.00000000	mg/L	96.26991311	-	-	13.30516214	13.82	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	0.00000000	0.00000000	0
P 177.434	P	0.00000000	0.00000000	mg/L	10.19172607	-	-	2.28115358	22.38		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	0.00000000	0.00000000	0
Pb 220.353	Pb	0.00000000	0.00000000	mg/L	-323.39455794	-	-	8.93065077	2.76	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.00000000	0.00000000	0
S 181.972	S	0.00000000	0.00000000	mg/L	147.77078544	-	-	4.32489746	2.93		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	0.00000000	0.00000000	0
Sb 206.834	Sb	0.00000000	0.00000000	mg/L	-26.95672025	-	-	2.34389314	8.70	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.00000000	0.00000000	0
Se 196.026	Se	0.00000000	0.00000000	mg/L	210.30495565	-	-	19.23528074	9.15	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.00000000	0.00000000	0
Si 251.611	Si	0.00000000	0.00000000	mg/L	1001.35384745	-	-	27.93202139	2.79		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	0.00000000	0.00000000	0
Sn 189.925	Sn	0.00000000	0.00000000	mg/L	39.12343737	-	-	3.19278361	8.16	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.00000000	0.00000000	0
Sr 421.552	Sr-R	0.00000000	0.00000000	mg/L	194.61205591	-	-	11.99340243	6.16	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	0.00000000	0.00000000	0
Ti 334.941	Ti	0.00000000	0.00000000	mg/L	1090.40258968	-	-	73.47182759	6.74	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.00000000	0.00000000	0
Tl 190.794	Tl	0.00000000	0.00000000	mg/L	7.19259216	-	-	1.13827147	15.83	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	0.00000000	0.00000000	0
V 292.401	V	0.00000000	0.00000000	mg/L	-26.41454208	-	-	5.43137200	20.56	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.00000000	0.00000000	0
Zn 206.200	Zn	0.00000000	0.00000000	mg/L	180.92236543	-	-	5.68728639	3.14	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	0.00000000	0.00000000	0
Y 371.029	Y	1.00	1.00	Ratio	952534.83	0.00	0.00	4671.03	0.49		-	-	-	Fitted	-	-	1.00	1.00	1
Y 371.029	Y-R	1.00	1.00	Ratio	228232.10	0.00	0.00	934.55	0.41		-	-	-	Fitted	-	-	1.00	1.00	1

Instrument ID: MET09

Label:	ICAL,L1,S18001	Rack:Tube:	S1:2	Type:	STD
Date Time:	3/17/2023 3:47:12 PM	Flags:		Weight:	-
Volume:	-	Dilution:	-	%RSE limit:	-
Calibration Coefficient [3]:	-	LIMSID:		Customer:	
Customer Ref.:		Sample Date Time:		Sample Site:	
Description:		Replicates:	3	Flags Replicate 1:	
Flags Replicate 2:		Flags Replicate 3:			

Element	Element Label	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag			mg/L	606.48381880	-	-	33.16928775	5.47		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447		
Al 396.152	Al	0.00666667	0.00666667	mg/L	1501.08917314	-	-	31.73507412	2.11	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	0.00666667	0.00666667
As 188.980	As	0.00333333	0.00333333	mg/L	72.99716762	-	-	4.06215804	5.56	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	0.00333333	0.00333333
B 249.678	B	0.00333333	0.00333333	mg/L	1168.92077130	-	-	46.78295753	4.00	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.00333333	0.00333333
Ba 230.424	Ba	0.00333333	0.00333333	mg/L	697.13585471	-	-	26.70406807	3.83	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.00333333	0.00333333
Be 313.107	Be	0.00100000	0.00100000	mg/L	2943.64844263	-	-	91.46158553	3.11	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.00100000	0.00100000
Ca 317.933	Ca-R	0.03333333	0.03333333	mg/L	2731.64242138	-	-	16.61670850	0.61	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	0.03333333	0.03333333
Cd 214.439	Cd	0.00166667	0.00166667	mg/L	407.82763394	-	-	27.82628828	6.82	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	0.00166667	0.00166667
Co 230.786	Co	0.00166667	0.00166667	mg/L	113.90972274	-	-	16.00275057	14.05	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.00166667	0.00166667
Cr 267.716	Cr	0.00333333	0.00333333	mg/L	190.86554268	-	-	10.86757385	5.69	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.00333333	0.00333333
Cu 324.754	Cu	0.00333333	0.00333333	mg/L	1088.60001158	-	-	16.49271063	1.52	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.00333333	0.00333333
Fe 259.940	Fe	0.06666667	0.06666667	mg/L	836.20713849	-	-	30.93353756	3.70	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	0.06666667	0.06666667
K 766.491	K-R	0.06666667	0.06666667	mg/L	184.63015490	-	-	24.26784466	13.14	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	0.06666667	0.06666667
Li 670.783	Li-R	0.00333333	0.00333333	mg/L	319.53901652	-	-	84.21627755	26.36	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.00333333	0.00333333
Mg 279.800	Mg-R	0.03333333	0.03333333	mg/L	142.66998714	-	-	7.39805326	5.19	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	0.03333333	0.03333333
Mn 257.610	Mn	0.00333333	0.00333333	mg/L	2742.81146559	-	-	52.99263581	1.93	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.00333333	0.00333333
Mo 204.598	Mo	0.00333333	0.00333333	mg/L	233.17014960	-	-	38.92847686	16.70	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.00333333	0.00333333
Na 589.592	Na-R	0.06666667	0.06666667	mg/L	1172.20083999	-	-	44.32675423	3.78	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	0.06666667	0.06666667
Ni 231.604	Ni	0.00333333	0.00333333	mg/L	179.52055189	-	-	17.52166901	9.76	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	0.00333333	0.00333333
P 177.434	P			mg/L	7.59528708	-	-	1.82134295	23.98		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543		
Pb 220.353	Pb	0.00333333	0.00333333	mg/L	-293.36376417	-	-	11.42774433	3.90	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.00333333	0.00333333
S 181.972	S			mg/L	154.38863340	-	-	4.22098964	2.73		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257		
Sb 206.834	Sb	0.01000010	0.01000010	mg/L	13.96037210	-	-	19.08352072	> 100.00	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.01000010	0.01000010
Se 196.026	Se	0.01000001	0.01000001	mg/L	125.75386828	-	-	17.96369774	14.28	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.01000001	0.01000001
Si 251.611	Si			mg/L	1013.77525939	-	-	16.10718091	1.59		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295		
Sn 189.925	Sn	0.00333333	0.00333333	mg/L	76.68391323	-	-	11.82789938	15.42	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.00333333	0.00333333
Sr 421.552	Sr-R	0.01666667	0.01666667	mg/L	9919.57089833	-	-	40.30379035	0.41	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	0.01666667	0.01666667
Ti 334.941	Ti	0.00333333	0.00333333	mg/L	2389.63662413	-	-	101.65587523	4.25	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.00333333	0.00333333
Tl 190.794	Tl	0.01000010	0.01000010	mg/L	18.08262022	-	-	3.39824289	18.79	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	0.01000010	0.01000010
V 292.401	V	0.00166667	0.00166667	mg/L	58.12134567	-	-	13.81971846	23.78	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.00166667	0.00166667
Zn 206.200	Zn	0.01000010	0.01000010	mg/L	921.49820627	-	-	26.88897186	2.92	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	0.01000010	0.01000010
Y 371.029	Y	1.02	1.02	Ratio	966881.73	0.01	0.66	6419.97	0.66		-	-	-	Fitted	-	-	1.01	1.02
Y 371.029	Y-R	1.00	1.00	Ratio	229047.75	0.00	0.22	505.18	0.22		-	-	-	Fitted	-	-	1.00	1.01

Instrument ID: MET09

Label:	ICAL,L2,S18000	Rack:Tube:	S1:3	Type:	STD
Date Time:	3/17/2023 3:50:25 PM	Flags:		Weight:	-
Volume:	-	Dilution:	-	%RSE limit:	-
Calibration Coefficient [3]:	-	LIMS ID:		Customer:	
Customer Ref.:		Sample Date Time:		Sample Site:	
Description:		Replicates:	3	Flags Replicate 1:	
Flags Replicate 2:		Flags Replicate 3:			

Element	Element Label	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2	C R
Ag 328.068	Ag			mg/L	643.99244538	-	-	120.45235954	18.70		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447			
Al 396.152	Al	0.02000000	0.02000000	mg/L	3401.61822698	-	-	88.65095741	2.61	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	0.02000000	0.02000000	0
As 188.980	As	0.01000000	0.01000000	mg/L	87.73106066	-	-	9.13443746	10.41	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	0.01000000	0.01000000	0
B 249.678	B	0.01000000	0.01000000	mg/L	1549.88884363	-	-	28.82082060	1.86	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.01000000	0.01000000	0
Ba 230.424	Ba	0.01000000	0.01000000	mg/L	1698.75682807	-	-	76.85544996	4.52	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.01000000	0.01000000	0
Be 313.107	Be	0.00300000	0.00300000	mg/L	9472.52667130	-	-	431.35008937	4.55	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.00300000	0.00300000	0
Ca 317.933	Ca-R	0.10000000	0.10000000	mg/L	4088.57881562	-	-	4.08976727	0.10	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	0.10000000	0.10000000	0
Cd 214.439	Cd	0.00500000	0.00500000	mg/L	1384.47694620	-	-	72.05172236	5.20	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	0.00500000	0.00500000	0
Co 230.786	Co	0.00500000	0.00500000	mg/L	312.01962279	-	-	3.70721150	1.19	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.00500000	0.00500000	0
Cr 267.716	Cr	0.01000000	0.01000000	mg/L	828.93169201	-	-	37.05437389	4.47	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.01000000	0.01000000	0
Cu 324.754	Cu	0.01000000	0.01000000	mg/L	1508.38639003	-	-	5.20127793	0.34	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.01000000	0.01000000	0
Fe 259.940	Fe	0.02000000	0.02000000	mg/L	1995.93601781	-	-	92.11331550	4.62	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	0.02000000	0.02000000	0
K 766.491	K-R	0.20000000	0.20000000	mg/L	438.13790672	-	-	54.88774497	12.53	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	0.20000000	0.20000000	0
Li 670.783	Li-R	0.01000000	0.01000000	mg/L	1344.98288924	-	-	61.91199783	4.60	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.01000000	0.01000000	0
Mg 279.800	Mg-R	0.10000000	0.10000000	mg/L	373.52068903	-	-	10.10352741	2.70	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	0.10000000	0.10000000	0
Mn 257.610	Mn	0.01000000	0.01000000	mg/L	7723.76251624	-	-	334.67213364	4.33	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.01000000	0.01000000	0
Mo 204.598	Mo	0.01000000	0.01000000	mg/L	230.26795387	-	-	9.88354595	4.29	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.01000000	0.01000000	0
Na 589.592	Na-R	0.20000000	0.20000000	mg/L	3187.39190029	-	-	30.94552910	0.97	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	0.20000000	0.20000000	0
Ni 231.604	Ni	0.01000000	0.01000000	mg/L	395.72407470	-	-	16.33441736	4.13	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	0.01000000	0.01000000	0
P 177.434	P			mg/L	11.49879482	-	-	1.30223750	11.33		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543			
Pb 220.353	Pb	0.01000000	0.01000000	mg/L	-191.93508495	-	-	9.47662599	4.94	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.01000000	0.01000000	0
S 181.972	S			mg/L	161.85894672	-	-	3.42500344	2.12		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257			
Sb 206.834	Sb	0.03000030	0.03000030	mg/L	136.40502397	-	-	25.27932679	18.53	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.03000030	0.03000030	0
Se 196.026	Se	0.03000003	0.03000003	mg/L	150.71832073	-	-	4.68844254	3.11	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.03000003	0.03000003	0
Si 251.611	Si			mg/L	1024.62688454	-	-	35.43600479	3.46		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295			
Sn 189.925	Sn	0.01000000	0.01000000	mg/L	188.94242177	-	-	4.87196051	2.58	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.01000000	0.01000000	0
Sr 421.552	Sr-R	0.05000000	0.05000000	mg/L	32878.14009302	-	-	98.86651868	0.30	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	0.05000000	0.05000000	0
Ti 334.941	Ti	0.01000000	0.01000000	mg/L	5604.01237807	-	-	399.29904539	7.13	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.01000000	0.01000000	0
Tl 190.794	Tl	0.03000030	0.03000030	mg/L	68.36254742	-	-	6.40119942	9.36	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	0.03000030	0.03000030	0
V 292.401	V	0.00500000	0.00500000	mg/L	240.70505109	-	-	10.19596559	4.24	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.00500000	0.00500000	0
Zn 206.200	Zn	0.03000030	0.03000030	mg/L	2670.45004174	-	-	110.99866595	4.16	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	0.03000030	0.03000030	0
Y 371.029	Y	1.01	1.01	Ratio	961134.69	0.00	0.47	4542.32	0.47		-	-	-	Fitted	-	-	1.01	1.01	1
Y 371.029	Y-R	1.00	1.00	Ratio	229186.59	0.00	0.13	291.55	0.13		-	-	-	Fitted	-	-	1.01	1.00	1

Instrument ID: MET09

Label:	ICAL,L3,S17999	Rack:Tube:	S1:4	Type:	STD
Date Time:	3/17/2023 3:53:40 PM	Flags:		Weight:	-
Volume:	-	Dilution:	-	%RSE limit:	-
Calibration Coefficient [3]:	-	LIMSID:		Customer:	
Customer Ref.:		Sample Date Time:		Sample Site:	
Description:		Replicates:	3	Flags Replicate 1:	
Flags Replicate 2:		Flags Replicate 3:			

Element	Element Label	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag			mg/L	635.22101690	-	-	69.51404176	10.94		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447		
Al 396.152	Al	0.20000000	0.20000000	mg/L	12756.66820103	-	-	284.96951701	2.23	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	0.20000000	0.20000000
As 188.980	As	0.10000000	0.10000000	mg/L	552.94840672	-	-	2.52521082	0.46	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	0.10000000	0.10000000
B 249.678	B	0.10000000	0.10000000	mg/L	6187.99194137	-	-	138.67078945	2.24	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.10000000	0.10000000
Ba 230.424	Ba	0.10000000	0.10000000	mg/L	14938.21872906	-	-	404.68602394	2.71	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.10000000	0.10000000
Be 313.107	Be	0.03000000	0.03000000	mg/L	99155.14568101	-	-	2612.25015780	2.63	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.03000000	0.03000000
Ca 317.933	Ca-R	1.00000000	1.00000000	mg/L	20571.16891530	-	-	70.91415545	0.34	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	1.00000000	1.00000000
Cd 214.439	Cd	0.05000000	0.05000000	mg/L	14763.50936801	-	-	413.94716178	2.80	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	0.05000000	0.05000000
Co 230.786	Co	0.05000000	0.05000000	mg/L	2982.56538275	-	-	79.44409686	2.66	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.05000000	0.05000000
Cr 267.716	Cr	0.10000000	0.10000000	mg/L	9388.71383942	-	-	236.96295283	2.52	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.10000000	0.10000000
Cu 324.754	Cu	0.10000000	0.10000000	mg/L	6726.19844836	-	-	139.12314052	2.07	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.10000000	0.10000000
Fe 259.940	Fe	0.20000000	0.20000000	mg/L	18169.97801668	-	-	435.56067895	2.40	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	0.20000000	0.20000000
K 766.491	K-R	2.00000000	2.00000000	mg/L	3671.64250973	-	-	56.66301535	1.54	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	2.00000000	2.00000000
Li 670.783	Li-R	0.10000000	0.10000000	mg/L	14387.11516169	-	-	146.13497879	1.02	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.10000000	0.10000000
Mg 279.800	Mg-R	1.00000000	1.00000000	mg/L	3167.61398283	-	-	4.77307919	0.15	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	1.00000000	1.00000000
Mn 257.610	Mn	0.10000000	0.10000000	mg/L	70900.35700261	-	-	1789.10833669	2.52	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.10000000	0.10000000
Mo 204.598	Mo	0.10000000	0.10000000	mg/L	1224.53317469	-	-	48.29335778	3.94	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.10000000	0.10000000
Na 589.592	Na-R	2.00000000	2.00000000	mg/L	28106.61928961	-	-	130.02752344	0.46	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	2.00000000	2.00000000
Ni 231.604	Ni	0.10000000	0.10000000	mg/L	3372.07531770	-	-	83.09419486	2.46	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	0.10000000	0.10000000
P 177.434	P			mg/L	8.06450095	-	-	2.50846141	31.11		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543		
Pb 220.353	Pb	0.10000000	0.10000000	mg/L	1029.30505960	-	-	45.35729470	4.41	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.10000000	0.10000000
S 181.972	S			mg/L	258.94932873	-	-	3.99297471	1.54		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257		
Sb 206.834	Sb	0.30000300	0.30000300	mg/L	1824.25236063	-	-	49.50042605	2.71	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.30000300	0.30000300
Se 196.026	Se	0.30000030	0.30000030	mg/L	808.56545545	-	-	79.27700104	9.80	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.30000030	0.30000030
Si 251.611	Si			mg/L	1011.62715887	-	-	29.94932686	2.96		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295		
Sn 189.925	Sn	0.10000000	0.10000000	mg/L	1643.03630330	-	-	31.75119948	1.93	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.10000000	0.10000000
Sr 421.552	Sr-R	0.50000000	0.50000000	mg/L	325922.79343667	-	-	579.97784687	0.18	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	0.50000000	0.50000000
Ti 334.941	Ti	0.10000000	0.10000000	mg/L	48849.56932517	-	-	1331.73187023	2.73	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.10000000	0.10000000
Tl 190.794	Tl	0.30000300	0.30000300	mg/L	958.59739548	-	-	51.43592531	5.37	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	0.30000300	0.30000300
V 292.401	V	0.05000000	0.05000000	mg/L	2622.35525840	-	-	76.42371918	2.91	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.05000000	0.05000000
Zn 206.200	Zn	0.30000300	0.30000300	mg/L	25817.09967353	-	-	657.50120171	2.55	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	0.30000300	0.30000300
Y 371.029	Y	1.01	1.01	Ratio	960269.06	0.01	0.58	5597.07	0.58		-	-	-	Fitted	-	-	1.00	1.01
Y 371.029	Y-R	1.02	1.02	Ratio	233426.19	0.00	0.33	773.62	0.33		-	-	-	Fitted	-	-	1.03	1.02

Instrument ID: MET09

Label: ICAL,L4,S17998 | Rack:Tube: S1:5 | Type: STD
Date Time: 3/17/2023 3:56:54 PM | Flags: | Weight: -
Volume: - | Dilution: - | %RSE limit: -
Calibration Coefficient [3]: - | LIMS ID: | Customer:
Customer Ref.: | Sample Date Time: | Sample Site:
Description: | Replicates: 3 | Flags Replicate 1:
Flags Replicate 2: | Flags Replicate 3:

Element	Element Label	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate
Ag 328.068	Ag			mg/L	521.90781951	-	-	28.92515672	5.54		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447		
Al 396.152	Al	2.00000000	2.00000000	mg/L	96009.52543089	-	-	3577.18696295	3.73	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	2.00000000	2.0000
As 188.980	As	1.00000000	1.00000000	mg/L	5208.97231227	-	-	90.21551272	1.73	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	1.00000000	1.0000
B 249.678	B	1.00000000	1.00000000	mg/L	49952.58890547	-	-	1930.83982706	3.87	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	1.00000000	1.0000
Ba 230.424	Ba	1.00000000	1.00000000	mg/L	135993.44293558	-	-	5066.14415905	3.73	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	1.00000000	1.0000
Be 313.107	Be	0.30000000	0.30000000	mg/L	942437.62080881	-	-	36378.69255489	3.86	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.30000000	0.3000
Ca 317.933	Ca-R	10.00000000	10.00000000	mg/L	174435.95356682	-	-	1148.59288040	0.66	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	10.00000000	10.000
Cd 214.439	Cd	0.50000000	0.50000000	mg/L	136870.43055590	-	-	4700.22310560	3.43	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	0.50000000	0.5000
Co 230.786	Co	0.50000000	0.50000000	mg/L	27195.86576140	-	-	918.62743061	3.38	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.50000000	0.5000
Cr 267.716	Cr	1.00000000	1.00000000	mg/L	86167.18494118	-	-	3121.99151580	3.62	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	1.00000000	1.0000
Cu 324.754	Cu	1.00000000	1.00000000	mg/L	56108.68415613	-	-	2123.72592839	3.79	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	1.00000000	1.0000
Fe 259.940	Fe	2.00000000	2.00000000	mg/L	154078.54868003	-	-	5590.75831925	3.63	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	2.00000000	2.0000
K 766.491	K-R	20.00000000	20.00000000	mg/L	36183.99504381	-	-	189.69591862	0.52	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	20.00000000	20.000
Li 670.783	Li-R	1.00000000	1.00000000	mg/L	134498.22413436	-	-	918.74210732	0.68	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	1.00000000	1.0000
Mg 279.800	Mg-R	10.00000000	10.00000000	mg/L	28999.30583097	-	-	243.45673239	0.84	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	10.00000000	10.000
Mn 257.610	Mn	1.00000000	1.00000000	mg/L	638264.26734870	-	-	24728.77959072	3.87	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	1.00000000	1.0000
Mo 204.598	Mo	1.00000000	1.00000000	mg/L	12269.04087248	-	-	56.73784758	0.46	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	1.00000000	1.0000
Na 589.592	Na-R	20.00000000	20.00000000	mg/L	259622.34162708	-	-	2265.43140097	0.87	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	20.00000000	20.000
Ni 231.604	Ni	1.00000000	1.00000000	mg/L	30429.29885765	-	-	1058.24822055	3.48	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	1.00000000	1.0000
P 177.434	P			mg/L	14.51004552	-	-	0.74608947	5.14		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543		
Pb 220.353	Pb	1.00000000	1.00000000	mg/L	12049.64266262	-	-	477.52324857	3.96	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	1.00000000	1.0000
S 181.972	S			mg/L	634.52637842	-	-	22.61851219	3.56		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257		
Sb 206.834	Sb	3.00003000	3.00003000	mg/L	17160.64066191	-	-	536.80168199	3.13	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	3.00003000	3.0000
Se 196.026	Se	3.00000300	3.00000300	mg/L	9112.96865162	-	-	152.80484440	1.68	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	3.00000300	3.0000
Si 251.611	Si			mg/L	1201.11889465	-	-	11.84493315	0.99		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295		
Sn 189.925	Sn	1.00000000	1.00000000	mg/L	15266.58636779	-	-	571.96404860	3.75	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	1.00000000	1.0000
Sr 421.552	Sr-R	5.00000000	5.00000000	mg/L	3046505.45363049	-	-	22846.44549342	0.75	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	5.00000000	5.0000
Ti 334.941	Ti	1.00000000	1.00000000	mg/L	451042.62659206	-	-	14281.13484126	3.17	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	1.00000000	1.0000
Tl 190.794	Tl	3.00003000	3.00003000	mg/L	11159.22243860	-	-	744.99215053	6.68	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	3.00003000	3.0000
V 292.401	V	0.50000000	0.50000000	mg/L	24754.98595767	-	-	866.82040414	3.50	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.50000000	0.5000
Zn 206.200	Zn	3.00003000	3.00003000	mg/L	235151.90796736	-	-	8882.32321058	3.78	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	3.00003000	3.0000
Y 371.029	Y	1.00	1.00	Ratio	952151.14	0.01	0.71	6780.81	0.71		-	-	-	Fitted	-	-	0.99	1.00
Y 371.029	Y-R	1.01	1.01	Ratio	229925.12	0.01	0.80	1845.99	0.80		-	-	-	Fitted	-	-	1.01	1.01

Instrument ID: MET09

Label:	ICAL,L5,S17997	Rack:Tube:	S1:6	Type:	STD
Date Time:	3/17/2023 4:00:08 PM	Flags:		Weight:	-
Volume:	-	Dilution:	-	%RSE limit:	-
Calibration Coefficient [3]:	-	LIMS ID:		Customer:	
Customer Ref.:		Sample Date Time:		Sample Site:	
Description:		Replicates:	3	Flags Replicate 1:	
Flags Replicate 2:		Flags Replicate 3:			

Element	Element Label	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	C R
Ag 328.068	Ag			mg/L	353.49923543	-	-	38.17035451	10.80		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447		
Al 396.152	Al	10.00000000	10.00000000	mg/L	519462.92773639	-	-	21412.28479236	4.12	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	10.00000000	1
As 188.980	As	5.00000000	5.00000000	mg/L	28869.05859171	-	-	770.37028608	2.67	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	5.00000000	5
B 249.678	B	5.00000000	5.00000000	mg/L	258199.39347332	-	-	8590.01838250	3.33	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	5.00000000	5
Ba 230.424	Ba	5.00000000	5.00000000	mg/L	689749.78221074	-	-	25426.90407565	3.69	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	5.00000000	5
Be 313.107	Be	1.50000000	1.50000000	mg/L	4838378.56552450	-	-	165017.54061627	3.41	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	1.50000000	1
Ca 317.933	Ca-R	50.00000000	50.00000000	mg/L	874959.96998060	-	-	1940.06819032	0.22	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	50.00000000	5
Cd 214.439	Cd	2.50000000	2.50000000	mg/L	678632.41406958	-	-	22953.89082072	3.38	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	2.50000000	2
Co 230.786	Co	2.50000000	2.50000000	mg/L	138191.04365585	-	-	5056.48102061	3.66	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	2.50000000	2
Cr 267.716	Cr	5.00000000	5.00000000	mg/L	442639.04645845	-	-	14496.13721649	3.27	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	5.00000000	5
Cu 324.754	Cu	5.00000000	5.00000000	mg/L	301023.70504710	-	-	11467.18421253	3.81	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	5.00000000	5
Fe 259.940	Fe	10.00000000	10.00000000	mg/L	783341.82151769	-	-	27488.92022531	3.51	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	10.00000000	1
K 766.491	K-R	100.00000000	100.00000000	mg/L	191581.64865513	-	-	748.18463514	0.39	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	100.00000000	1
Li 670.783	Li-R	5.00000000	5.00000000	mg/L	698020.24055080	-	-	1780.44293819	0.26	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	5.00000000	5
Mg 279.800	Mg-R	50.00000000	50.00000000	mg/L	147614.70399576	-	-	314.14276863	0.21	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	50.00000000	5
Mn 257.610	Mn	5.00000000	5.00000000	mg/L	3214447.71664806	-	-	116235.90173064	3.62	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	5.00000000	5
Mo 204.598	Mo	5.00000000	5.00000000	mg/L	68113.95356398	-	-	1631.07624780	2.39	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	5.00000000	5
Na 589.592	Na-R	100.00000000	100.00000000	mg/L	1321082.29661017	-	-	4961.86243012	0.38	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	100.00000000	1
Ni 231.604	Ni	5.00000000	5.00000000	mg/L	154645.34737519	-	-	5599.20705010	3.62	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	5.00000000	5
P 177.434	P			mg/L	-5.48042554	-	-	1.34742809	24.59		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543		
Pb 220.353	Pb	5.00000000	5.00000000	mg/L	62490.70833057	-	-	2141.26636933	3.43	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	5.00000000	5
S 181.972	S			mg/L	1491.40543210	-	-	50.25068015	3.37		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257		
Sb 206.834	Sb	15.00015000	15.00015000	mg/L	91712.04673218	-	-	3152.77297825	3.44	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	15.00015000	1
Se 196.026	Se	15.00000000	15.00000000	mg/L	62506.33978405	-	-	4067.30391862	6.51	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	15.00000000	1
Si 251.611	Si			mg/L	1982.16571404	-	-	96.27239853	4.86		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295		
Sn 189.925	Sn	5.00000000	5.00000000	mg/L	77732.88485122	-	-	2776.10343719	3.57	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	5.00000000	5
Sr 421.552	Sr-R	25.00000000	25.00000000	mg/L	15321979.16194030	-	-	61205.11472049	0.40	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	25.00000000	2
Ti 334.941	Ti	5.00000000	5.00000000	mg/L	2333999.40117925	-	-	94545.72444630	4.05	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	5.00000000	5
Tl 190.794	Tl	15.00015000	15.00015000	mg/L	62566.30486568	-	-	4674.89135836	7.47	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	15.00015000	1
V 292.401	V	2.50000000	2.50000000	mg/L	128754.41275800	-	-	4715.18900683	3.66	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	2.50000000	2
Zn 206.200	Zn	15.00015000	15.00015000	mg/L	1149726.57294857	-	-	36311.21000966	3.16	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	15.00015000	1
Y 371.029	Y	0.98	0.98	Ratio	935338.45	0.01	0.56	5263.55	0.56		-	-	-	Fitted	-	-	0.98	0
Y 371.029	Y-R	0.98	0.98	Ratio	224026.32	0.00	0.47	1058.35	0.47		-	-	-	Fitted	-	-	0.99	0

Instrument ID: MET09

Label:	ICAL,L6,S17996	Rack:Tube:	S1:7	Type:	STD
Date Time:	3/17/2023 4:03:22 PM	Flags:		Weight:	-
Volume:	-	Dilution:	-	%RSE limit:	-
Calibration Coefficient [3]:	-	LIMS ID:		Customer:	
Customer Ref.:		Sample Date Time:		Sample Site:	
Description:		Replicates:	3	Flags Replicate 1:	
Flags Replicate 2:		Flags Replicate 3:			

Element	Element Label	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag			mg/L	317.90087678	-	-	30.55824279	9.61		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	
Al 396.152	Al	20.00000000	20.00000000	mg/L	1045141.10223625	-	-	39073.30669683	3.74	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	20.00000000
As 188.980	As	10.00000000	10.00000000	mg/L	57382.26622387	-	-	1763.03746170	3.07	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	10.00000000
B 249.678	B	10.00000000	10.00000000	mg/L	508707.33566938	-	-	16932.20579099	3.33	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	10.00000000
Ba 230.424	Ba	10.00000000	10.00000000	mg/L	1330773.68778630	-	-	49755.52892451	3.74	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	10.00000000
Be 313.107	Be	3.00000000	3.00000000	mg/L	9355520.08380158	-	-	335276.75126822	3.58	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	3.00000000
Ca 317.933	Ca-R	100.00000000	100.00000000	mg/L	1685206.37755633	-	-	1860.20613083	0.11	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	100.00000000
Cd 214.439	Cd	5.00000000	5.00000000	mg/L	1299763.27919079	-	-	44828.86009832	3.45	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	5.00000000
Co 230.786	Co	5.00000000	5.00000000	mg/L	267456.68132889	-	-	9572.17205219	3.58	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	5.00000000
Cr 267.716	Cr	10.00000000	10.00000000	mg/L	852467.00468716	-	-	30070.86427307	3.53	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	10.00000000
Cu 324.754	Cu	10.00000000	10.00000000	mg/L	601007.92756786	-	-	23154.47351467	3.85	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	10.00000000
Fe 259.940	Fe	20.00000000	20.00000000	mg/L	1509338.48566210	-	-	51832.87407450	3.43	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	20.00000000
K 766.491	K-R	200.00000000	200.00000000	mg/L	377398.13333069	-	-	731.39881863	0.19	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	200.00000000
Li 670.783	Li-R	10.00000000	10.00000000	mg/L	1377191.83989485	-	-	2972.27795044	0.22	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	10.00000000
Mg 279.800	Mg-R	100.00000000	100.00000000	mg/L	286072.07917561	-	-	242.47493286	0.08	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	100.00000000
Mn 257.610	Mn	10.00000000	10.00000000	mg/L	6128490.80035867	-	-	226737.93182636	3.70	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	10.00000000
Mo 204.598	Mo	10.00000000	10.00000000	mg/L	142573.29892743	-	-	5119.02220944	3.59	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	10.00000000
Na 589.592	Na-R	200.00000000	200.00000000	mg/L	2578662.72020408	-	-	11267.86729552	0.44	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	200.00000000
Ni 231.604	Ni	10.00000000	10.00000000	mg/L	296787.79978381	-	-	10529.59500108	3.55	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	10.00000000
P 177.434	P			mg/L	-4.02146561	-	-	5.24176839	> 100.00		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	
Pb 220.353	Pb	10.00000000	10.00000000	mg/L	120835.56886150	-	-	4123.74677569	3.41	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	10.00000000
S 181.972	S			mg/L	270.00908832	-	-	0.33652007	0.12		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	
Sb 206.834	Sb	30.00030000	30.00030000	mg/L	173081.62941694	-	-	5378.69175156	3.11	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	30.00030000
Se 196.026	Se	30.00000000	30.00000000	mg/L	136807.21109118	-	-	8813.80601305	6.44	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	30.00000000
Si 251.611	Si			mg/L	2990.09156666	-	-	294.80213823	9.86		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	
Sn 189.925	Sn	10.00000000	10.00000000	mg/L	149893.72911060	-	-	5354.52836464	3.57	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	10.00000000
Sr 421.552	Sr-R	50.00000000	50.00000000	mg/L	29362094.38826530	-	-	180265.75591438	0.61	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	50.00000000
Ti 334.941	Ti	10.00000000	10.00000000	mg/L	4483524.70243633	-	-	185266.70223334	4.13	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	10.00000000
Tl 190.794	Tl	30.00030000	30.00030000	mg/L	132284.60923024	-	-	7694.81815190	5.82	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	30.00030000
V 292.401	V	5.00000000	5.00000000	mg/L	250757.97007108	-	-	8983.46790972	3.58	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	5.00000000
Zn 206.200	Zn	30.00030000	30.00030000	mg/L	2157157.51840517	-	-	74980.75070049	3.48	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	30.00030000
Y 371.029	Y	0.97	0.97	Ratio	925730.17	0.01	0.72	6696.91	0.72		-	-	-	Fitted	-	-	0.96
Y 371.029	Y-R	0.97	0.97	Ratio	221100.79	0.00	0.33	734.48	0.33		-	-	-	Fitted	-	-	0.97

Instrument ID: MET09

Label: ICAL,L7,S18096 | Rack:Tube: S1:8 | Type: STD
Date Time: 3/17/2023 4:06:36 PM | Flags: | Weight: -
Volume: - | Dilution: - | %RSE limit: -
Calibration Coefficient [3]: - | LIMS ID: | Customer:
Customer Ref.: | Sample Date Time: | Sample Site:
Description: | Replicates: 3 | Flags Replicate 1:
Flags Replicate 2: | Flags Replicate 3:

Element	Element Label	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate 2
Ag 328.068	Ag	2.00000000	2.00000000	mg/L	216237.36370783	-	-	9250.11209644	4.28		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	2.00000000	2.0000000
Al 396.152	Al			mg/L	1823.06501304	-	-	103.02479165	5.65	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874		
As 188.980	As			mg/L	488.37633846	-	-	157.21795889	32.19	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251		
B 249.678	B			mg/L	1291.38239151	-	-	26.07674228	2.02	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996		
Ba 230.424	Ba			mg/L	406.61235681	-	-	64.10008693	15.76	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747		
Be 313.107	Be			mg/L	227.84023031	-	-	29.90542328	13.13	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898		
Ca 317.933	Ca-R			mg/L	2114.24644061	-	-	18.39556661	0.87	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875		
Cd 214.439	Cd			mg/L	28.83072274	-	-	16.00341056	55.51	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596		
Co 230.786	Co			mg/L	19.05082308	-	-	21.51165061	> 100.00	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415		
Cr 267.716	Cr			mg/L	-58.66399737	-	-	18.35659873	31.29	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298		
Cu 324.754	Cu			mg/L	956.58612998	-	-	4.94528944	0.52	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551		
Fe 259.940	Fe			mg/L	859.27664112	-	-	177.15088734	20.62	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675		
K 766.491	K-R			mg/L	141.98282796	-	-	41.31944770	29.10	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465		
Li 670.783	Li-R			mg/L	-12.78855316	-	-	28.99058189	> 100.00	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802		
Mg 279.800	Mg-R			mg/L	56.06894673	-	-	4.12018828	7.35	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442		
Mn 257.610	Mn			mg/L	648.73953507	-	-	9.57733565	1.48	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899		
Mo 204.598	Mo			mg/L	2896.43374782	-	-	783.64478842	27.06	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491		
Na 589.592	Na-R			mg/L	568.98335978	-	-	47.29465744	8.31	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862		
Ni 231.604	Ni			mg/L	100.91761485	-	-	2.85684394	2.83	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211		
P 177.434	P			mg/L	8.78048106	-	-	4.00636585	45.63		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543		
Pb 220.353	Pb			mg/L	-313.79570446	-	-	5.33033243	1.70	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306		
S 181.972	S			mg/L	151.64972765	-	-	3.72653437	2.46		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257		
Sb 206.834	Sb			mg/L	621.34202973	-	-	118.77292147	19.12	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277		
Se 196.026	Se			mg/L	2303.06096247	-	-	364.17277822	15.81	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751		
Si 251.611	Si			mg/L	1033.27264232	-	-	21.53973794	2.08		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295		
Sn 189.925	Sn			mg/L	138.41085087	-	-	28.65545405	20.70	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543		
Sr 421.552	Sr-R			mg/L	293.08661800	-	-	10.86264295	3.71	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488		
Ti 334.941	Ti			mg/L	6270.07465200	-	-	1670.30500879	26.64	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466		
Tl 190.794	Tl			mg/L	355.62519889	-	-	15.65212923	4.40	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944		
V 292.401	V			mg/L	-53.14777226	-	-	21.59071220	40.62	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968		
Zn 206.200	Zn			mg/L	378.22647949	-	-	4.86594672	1.29	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135		
Y 371.029	Y	1.01	1.01	Ratio	960166.66	0.01	0.82	7844.52	0.82		-	-	-	Fitted	-	-	1.00	1.01
Y 371.029	Y-R	1.03	1.03	Ratio	235636.27	0.00	0.37	861.51	0.37		-	-	-	Fitted	-	-	1.03	1.04

Instrument ID: MET09

Label:	ICAL,L8,S17995	Rack:Tube:	S1:9	Type:	STD
Date Time:	3/17/2023 4:09:49 PM	Flags:		Weight:	-
Volume:	-	Dilution:	-	%RSE limit:	-
Calibration Coefficient [3]:	-	LIMSID:		Customer:	
Customer Ref.:		Sample Date Time:		Sample Site:	
Description:		Replicates:	3	Flags Replicate 1:	
Flags Replicate 2:		Flags Replicate 3:			

Element	Element Label	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1	Concentration Replicate
Ag 328.068	Ag			mg/L	692.57458338	-	-	61.48230215	8.88		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447		
Al 396.152	Al			mg/L	1318.26950398	-	-	67.09623673	5.09	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874		
As 188.980	As			mg/L	207.19477656	-	-	74.34287256	35.88	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251		
B 249.678	B			mg/L	1269.17532874	-	-	24.51713928	1.93	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996		
Ba 230.424	Ba			mg/L	309.93814979	-	-	12.18211754	3.93	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747		
Be 313.107	Be			mg/L	297.40214481	-	-	5.46175283	1.84	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898		
Ca 317.933	Ca-R			mg/L	2120.38252651	-	-	32.38119883	1.53	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875		
Cd 214.439	Cd			mg/L	20.24299190	-	-	7.48171072	36.96	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596		
Co 230.786	Co			mg/L	71.25702555	-	-	22.64176462	31.77	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415		
Cr 267.716	Cr			mg/L	-31.37103047	-	-	5.83394228	18.60	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298		
Cu 324.754	Cu			mg/L	949.49247620	-	-	10.54520597	1.11	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551		
Fe 259.940	Fe			mg/L	541.86334265	-	-	67.82097823	12.52	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675		
K 766.491	K-R			mg/L	134.90120726	-	-	28.94906418	21.46	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465		
Li 670.783	Li-R			mg/L	9.91392824	-	-	60.61379600	> 100.00	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802		
Mg 279.800	Mg-R			mg/L	48.63324704	-	-	3.86209836	7.94	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442		
Mn 257.610	Mn			mg/L	678.71440469	-	-	18.72751890	2.76	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899		
Mo 204.598	Mo			mg/L	1001.85470568	-	-	333.58272647	33.30	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491		
Na 589.592	Na-R			mg/L	427.83357446	-	-	53.49562022	12.50	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862		
Ni 231.604	Ni			mg/L	92.82987950	-	-	5.19694118	5.60	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211		
P 177.434	P	10.00000000	10.00000000	mg/L	9970.41510048	-	-	306.75600268	3.08		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	10.00000000	10.000
Pb 220.353	Pb			mg/L	-330.96224678	-	-	8.40759501	2.54	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306		
S 181.972	S	10.00000000	10.00000000	mg/L	22048.33835870	-	-	727.81168546	3.30		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	10.00000000	10.000
Sb 206.834	Sb			mg/L	526.90046132	-	-	117.67517895	22.33	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277		
Se 196.026	Se			mg/L	599.77069980	-	-	126.88724055	21.16	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751		
Si 251.611	Si	10.00000000	10.00000000	mg/L	108482.32421040	-	-	4187.26897494	3.86		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	10.00000000	10.000
Sn 189.925	Sn			mg/L	60.33290466	-	-	15.16886569	25.14	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543		
Sr 421.552	Sr-R			mg/L	161.44527098	-	-	2.09706094	1.30	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488		
Ti 334.941	Ti			mg/L	6699.43333727	-	-	1919.12644166	28.65	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466		
Tl 190.794	Tl			mg/L	12.07610590	-	-	2.85109350	23.61	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944		
V 292.401	V			mg/L	-26.13288460	-	-	5.44226475	20.83	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968		
Zn 206.200	Zn			mg/L	224.38777730	-	-	4.81318120	2.15	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135		
Y 371.029	Y	1.03	1.03	Ratio	978799.84	0.01	0.76	7428.19	0.76		-	-	-	Fitted	-	-	1.02	1.03
Y 371.029	Y-R	1.04	1.04	Ratio	237034.57	0.00	0.43	1012.88	0.43		-	-	-	Fitted	-	-	1.04	1.04

Instrument ID: MET09

Label:	ICV,S18110	Rack:Tube:	S1:12	Type:	QC
Date Time:	3/17/2023 4:13:04 PM	Weight:	-	Volume:	-
Dilution:	-	%RSE limit:	-	Calibration Coefficient [3]:	-
LIMS ID:		Customer:		Customer Ref.:	
Sample Date Time:		Sample Site:		Description:	
Replicates:	3	Flags Replicate 1:		Flags Replicate 2:	
Flags Replicate 3:					

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag		0.49424721	0.49424721	mg/L	53953.41201784	0.01615587	3.26878292	1741.60414329	3.23		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	0.47715028
Al 396.152	Al		0.93549311	0.93549311	mg/L	52482.14907796	0.02861156	3.05844665	1564.99461519	2.98	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	0.90602845
As 188.980	As	Q	1.14862436	1.14862436	mg/L	5474.53224713	0.01089563	0.94858090	51.02779321	0.93	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	1.14136986
B 249.678	B		1.00979520	1.00979520	mg/L	52785.00321180	0.02932265	2.90382144	1498.07043878	2.84	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.97874911
Ba 230.424	Ba		0.99865284	0.99865284	mg/L	138585.02362203	0.02717812	2.72147820	3763.55342170	2.72	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.96912478
Be 313.107	Be		1.02654163	1.02654163	mg/L	3179584.04528155	0.02846039	2.77245336	88147.36115872	2.77	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.99679526
Ca 317.933	Ca-R		51.33508266	51.33508266	mg/L	879553.32384625	0.17479248	0.34049323	2986.66397129	0.34	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	51.18314728
Cd 214.439	Cd		1.01382137	1.01382137	mg/L	274178.92350391	0.03015871	2.97475581	8154.19159977	2.97	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	0.98460582
Co 230.786	Co		1.00094613	1.00094613	mg/L	55368.46668967	0.02715539	2.71297219	1501.15879919	2.71	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.97279450
Cr 267.716	Cr		0.98075959	0.98075959	mg/L	85951.62721284	0.02756385	2.81045954	2417.41999134	2.81	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.95284568
Cu 324.754	Cu		0.98212359	0.98212359	mg/L	58147.20568528	0.02885559	2.93808088	1680.65858549	2.89	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.95245758
Fe 259.940	Fe	Q	3.67299996	3.67299996	mg/L	79065.10270569	0.10782497	2.93561040	2320.10573281	2.93	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	3.56387380
K 766.491	K-R		57.86016296	57.86016296	mg/L	108961.32544409	0.24705464	0.42698573	465.00343255	0.43	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	57.57944399
Li 670.783	Li-R		0.98878975	0.98878975	mg/L	136795.96969950	0.00352235	0.35622831	487.43014730	0.36	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.98510916
Mg 279.800	Mg-R		51.66653685	51.66653685	mg/L	149540.03982011	0.14537490	0.28137148	420.23839096	0.28	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	51.50836187
Mn 257.610	Mn		0.99032481	0.99032481	mg/L	645464.19641314	0.02602421	2.62784566	16942.90036733	2.62	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.96354680
Mo 204.598	Mo		1.04889311	1.04889311	mg/L	12908.23899175	0.00950281	0.90598422	115.75334933	0.90	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	1.04773897
Na 589.592	Na-R		47.95494095	47.95494095	mg/L	646250.19433899	0.23437929	0.48874899	3103.49221753	0.48	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	47.71376890
Ni 231.604	Ni		0.97200431	0.97200431	mg/L	30350.27552230	0.02693772	2.77135817	838.10654574	2.76	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	0.94434664
P 177.434	P		5.17470430	5.17470430	mg/L	5164.06604148	0.14696236	2.84001466	146.37779402	2.83		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	5.02254548
Pb 220.353	Pb		0.98573613	0.98573613	mg/L	12129.92824099	0.02945558	2.98818095	372.11998901	3.07	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.95380224
S 181.972	S		5.36021957	5.36021957	mg/L	11891.78069693	0.15662822	2.92204865	343.02469959	2.88		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	5.19316370
Sb 206.834	Sb		1.03796585	1.03796585	mg/L	6131.60872140	0.03536201	3.40685638	209.88799250	3.42	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	1.00161705
Se 196.026	Se		1.01862202	1.01862202	mg/L	3170.94708141	0.02174124	2.13437750	66.23023649	2.09	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	1.03551545
Si 251.611	Si		5.49756463	5.49756463	mg/L	60091.85326535	0.25569112	4.65098896	2748.19300740	4.57		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	5.23520383
Sn 189.925	Sn		4.99045997	4.99045997	mg/L	77688.89057612	0.13678457	2.74092109	2128.32982835	2.74	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	4.85459172
Sr 421.552	Sr-R		0.97317414	0.97317414	mg/L	618998.44764917	0.00772602	0.79389952	4908.73344039	0.79	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	0.96532648
Ti 334.941	Ti		1.00178853	1.00178853	mg/L	461105.38111060	0.02778835	2.77387388	12762.70884548	2.77	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.97171636
Tl 190.794	Tl	Q	1.27829624	1.27829624	mg/L	4060.68642122	0.05047336	3.94848699	160.14859455	3.94	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	1.22889716
V 292.401	V		0.98739129	0.98739129	mg/L	50764.20037158	0.02933737	2.97120048	1508.83316546	2.97	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.95725595
Zn 206.200	Zn		1.01448599	1.01448599	mg/L	79588.74222799	0.02906278	2.86477882	2274.27325956	2.86	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	0.98732958
Y 371.029	Y		0.98	0.98	Ratio	934934.49	0.01	0.59	5493.71	0.59		-	-	-	Fitted	-	-	0.98
Y 371.029	Y-R		0.99	0.99	Ratio	226870.93	0.00	0.48	1079.39	0.48		-	-	-	Fitted	-	-	1.00

ENTHALPY INSTRUMENT BLANK FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09			IDF:	1.0
Seqnum:	673110383013	File:	icp data	Time:	17-MAR-2023 16:24
Cal:	673110383001	Caldate:	17-MAR-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	952535	958307	0.61
Yttrium	R	228232	233732	2.41

Instrument ID: MET09

Label: ICB | Rack:Tube: S1:1 | Type: QC

Date Time: 3/17/2023 4:24:35 PM | Weight: - | Volume: -

Dilution: - | %RSE limit: - | Calibration Coefficient [3]: -

LIMS ID: | Customer: | Customer Ref.:

Sample Date Time: | Sample Site: | Description:

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	!u	0.00064037	0.00064037	mg/L	706.18771416	0.00076424	119.34467357	82.38541644	11.67		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	0.00057605
Al 396.152	Al	!u	-0.00294124	-0.00294124	mg/L	1069.28717089	0.00035466	12.05804971	19.39900326	1.81	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	-0.00256890
As 188.980	As	Z!u	-0.00460784	-0.00460784	mg/L	70.61416333	0.00417548	90.61693894	19.55513142	27.69	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	-0.00835120
B 249.678	B	!	0.00265486	0.00265486	mg/L	1152.00810419	0.00029478	11.10354171	15.06023598	1.31	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.00231466
Ba 230.424	Ba	!u	-0.00003556	-0.00003556	mg/L	274.35682661	0.00012236	344.06178548	16.94363244	6.18	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	-0.00013392
Be 313.107	Be	!	0.00001401	0.00001401	mg/L	238.00405875	0.00000415	29.63543550	12.86203422	5.40	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.00001143
Ca 317.933	Ca-R	!u	-0.01952929	-0.01952929	mg/L	1998.43385465	0.00021539	1.10288398	3.68027150	0.18	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	-0.01939129
Cd 214.439	Cd	!u	-0.00019264	-0.00019264	mg/L	12.95728585	0.00001432	7.43620449	3.87307997	29.89	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	-0.00020721
Co 230.786	Co	!	0.00033629	0.00033629	mg/L	55.74070059	0.00012358	36.74714403	6.83147103	12.26	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.00022861
Cr 267.716	Cr	!u	0.00001974	0.00001974	mg/L	-63.57625705	0.00003376	170.99942439	2.96083027	4.66	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	-0.00001869
Cu 324.754	Cu	!u	-0.00007523	-0.00007523	mg/L	920.19485779	0.00045563	605.61696026	26.53787805	2.88	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.00025296
Fe 259.940	Fe	Z!	0.00855497	0.00855497	mg/L	174.23517023	0.00052520	6.13910762	11.30087727	6.49	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	0.00797477
K 766.491	K-R	!	0.03195873	0.03195873	mg/L	113.25708319	0.01326458	41.50533822	24.96644168	22.04	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	0.04364371
Li 670.783	Li-R	!u	0.00010702	0.00010702	mg/L	9.14336933	0.00029645	276.98931047	41.02270513	> 100.00	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.00036946
Mg 279.800	Mg-R	!u	-0.04680781	-0.04680781	mg/L	47.25932845	0.00210026	4.48698357	6.07126325	12.85	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	-0.04637053
Mn 257.610	Mn	!u	-0.00022244	-0.00022244	mg/L	510.94337496	0.00001697	7.62830760	11.04729155	2.16	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	-0.00020299
Mo 204.598	Mo	Z!	0.01197087	0.01197087	mg/L	277.52305180	0.00652014	54.46676869	79.42164480	28.62	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.00525714
Na 589.592	Na-R	!u	-0.01262823	-0.01262823	mg/L	312.17993773	0.00175077	13.86396432	23.18255669	7.43	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	-0.01157288
Ni 231.604	Ni	!u	-0.00060258	-0.00060258	mg/L	70.68564731	0.00041198	68.36915523	12.81772474	18.13	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	-0.00086158
P 177.434	P	!u	-0.00327033	-0.00327033	mg/L	6.93457060	0.00155490	47.54576380	1.54871790	22.33		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	-0.00216946
Pb 220.353	Pb	!u	-0.00110603	-0.00110603	mg/L	-337.02824102	0.00068822	62.22394165	8.69441389	2.58	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	-0.00176159
S 181.972	S	!u	-0.00072412	-0.00072412	mg/L	146.18198985	0.00257631	355.78346675	5.64226436	3.86		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	0.00191877
Sb 206.834	Sb	Z!	0.02856065	0.02856065	mg/L	142.31491036	0.00719977	25.20868915	42.73356467	30.03	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.02044584
Se 196.026	Se	Z!	0.02905371	0.02905371	mg/L	157.37304354	0.00747689	25.73470825	22.77681117	14.47	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.02119011
Si 251.611	Si	!u	-0.00066354	-0.00066354	mg/L	994.21340885	0.00064160	96.69325235	6.89594277	0.69		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	-0.00032051
Sn 189.925	Sn	!u	-0.00013259	-0.00013259	mg/L	35.04178402	0.00010080	76.02545349	1.56848790	4.48	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	-0.00014743
Sr 421.552	Sr-R	!u	-0.00006072	-0.00006072	mg/L	100.96488345	0.00002175	35.82850620	13.82102368	13.69	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	-0.00007910
Ti 334.941	Ti	!u	0.00022521	0.00022521	mg/L	1117.90298504	0.00030917	137.28439287	141.99794647	12.70	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	-0.00006578
Tl 190.794	Tl	!u	0.00080679	0.00080679	mg/L	6.77367192	0.00092105	114.16181204	2.92242106	43.14	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	0.00155769
V 292.401	V	!u	0.00017095	0.00017095	mg/L	-15.55031713	0.00023608	138.10127898	12.14160696	78.08	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.00029109
Zn 206.200	Zn	!u	-0.00013390	-0.00013390	mg/L	169.14488314	0.00006236	46.57193482	4.87994959	2.89	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	-0.00006192
Y 371.029	Y	!	1.01	1.01	Ratio	958307.35	0.01	0.81	7769.24	0.81		-	-	-	Fitted	-	-	1.00
Y 371.029	Y-R	!	1.02	1.02	Ratio	233732.26	0.00	0.42	988.57	0.42		-	-	-	Fitted	-	-	1.02

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09			IDF:	1.0
Seqnum:	673110383014	File:	icp data	Time:	17-MAR-2023 16:27
Cal:	673110383001	Caldate:	17-MAR-2023		

Standards: S17961

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.002256]	0.003333	mg/L	

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Aluminum	A	400.0	337.7	mg/L	84	
Aluminum as Al2O3	A	755.8	638.1	mg/L	84	
Iron	A	160.0	500.9	mg/L	313	
Iron as Fe2O3	A	228.8	716.1	mg/L	313	
Calcium	R	400.0	376.1	mg/L	94	
Calcium as CaCO3	R	998.9	939.2	mg/L	94	
Magnesium	R	400.0	387.0	mg/L	97	
Magnesium as MgCO3	R	1388	1343	mg/L	97	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	952535	900539	-5.46
Yttrium	R	228232	217821	-4.56

Instrument ID: MET09

Label: ICSA,S17961 | Rack:Tube: S1:14 | Type: QC
Date Time: 3/17/2023 4:27:50 PM | Weight: - | Volume: -
Dilution: - | %RSE limit: - | Calibration Coefficient [3]: -
LIMSID: | Customer: | Customer Ref.:
Sample Date Time: | Sample Site: | Description:
Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Cor Rep
Ag 328.068	Ag	Kbu	-0.00510277	-0.00510277	mg/L	463.16700709	0.00051905	10.17197993	55.95397609	12.08		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	-0.
Al 396.152	Al	bo	337.70516116	337.70516116	mg/L	18473637.22480640	11.58258690	3.42979268	633544.19318110	3.43	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	32
As 188.980	As	Kbu	-0.01339092	-0.01339092	mg/L	73.32501492	0.00309432	23.10763037	14.49172524	19.76	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	-0.
B 249.678	B	Kbu	-0.03001557	-0.03001557	mg/L	974.68270613	0.00102003	3.39833579	52.11249996	5.35	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	-0.
Ba 230.424	Ba	b	0.00292604	0.00292604	mg/L	1028.47112439	0.00031594	10.79740159	43.75001426	4.25	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.0
Be 313.107	Be	b	0.00006717	0.00006717	mg/L	353.06508073	0.00000778	11.58288893	24.09857279	6.83	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.0
Ca 317.933	Ca-R	bo	376.09011071	376.09011071	mg/L	6429481.96576423	0.63573506	0.16903796	10862.74966486	0.17	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	37
Cd 214.439	Cd	bu	-0.00075830	-0.00075830	mg/L	691.04387903	0.00001265	1.66796864	3.41978906	0.49	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	-0.
Co 230.786	Co	bu	-0.00045648	-0.00045648	mg/L	90.45261107	0.00018417	40.34509171	10.18087920	11.26	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	-0.
Cr 267.716	Cr	bu	-0.00063256	-0.00063256	mg/L	50.33320249	0.00007287	11.51982100	6.39081952	12.70	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	-0.
Cu 324.754	Cu	bu	-0.00210525	-0.00210525	mg/L	804.15741701	0.00052895	25.12518101	30.80787494	3.83	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	-0.
Fe 259.940	Fe	Kbo	500.87912261	500.87912261	mg/L	10778177.35322420	14.21443897	2.83789807	305856.81305994	2.84	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	48
K 766.491	K-R	bu	0.01959159	0.01959159	mg/L	92.22483723	0.02709364	138.29221663	50.99533819	55.29	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	0.0
Li 670.783	Li-R	Kb	0.00349095	0.00349095	mg/L	173.45080112	0.00045248	12.96158698	62.61546471	36.10	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.0
Mg 279.800	Mg-R	bo	387.01109710	387.01109710	mg/L	1119190.55614170	0.81529877	0.21066548	2356.80194419	0.21	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	38
Mn 257.610	Mn	b	0.00075895	0.00075895	mg/L	1586.19925217	0.00007012	9.23869648	45.64910585	2.88	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.0
Mo 204.598	Mo	Kb	0.00751811	0.00751811	mg/L	315.79144750	0.00524086	69.70983840	63.83875137	20.22	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.0
Na 589.592	Na-R	bu	-0.04275111	-0.04275111	mg/L	1339.52917128	0.00512489	11.98773451	67.86033280	5.07	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	-0.
Ni 231.604	Ni	Kbu	-0.00456717	-0.00456717	mg/L	98.93165063	0.00021639	4.73803619	6.73261805	6.81	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	-0.
P 177.434	P	b	0.00278853	0.00278853	mg/L	11.47264602	0.00197136	70.69510490	1.96351415	17.11		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	0.0
Pb 220.353	Pb	bu	-0.00225645	-0.00225645	mg/L	-1567.81885074	0.00390094	172.87973519	49.28158309	3.14	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.0
S 181.972	S	b	0.08667403	0.08667403	mg/L	391.83474556	0.00296720	3.42339578	6.49832600	1.66		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	0.0
Sb 206.834	Sb	b	0.00559550	0.00559550	mg/L	67.84565732	0.00348240	62.23569494	20.66947060	30.47	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.0
Se 196.026	Se	b	0.00887146	0.00887146	mg/L	96.59019009	0.00363312	40.95288002	11.06755466	11.46	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.0
Si 251.611	Si	bu	0.00120166	0.00120166	mg/L	1089.16319435	0.00241247	200.76134374	25.92941604	2.38		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	0.0
Sn 189.925	Sn	bu	0.00015439	0.00015439	mg/L	57.78367420	0.00061677	399.49308777	9.59680930	16.61	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	-0.
Sr 421.552	Sr-R	Kbu	-0.02009550	-0.02009550	mg/L	1669.34156695	0.00001389	0.06909732	8.82212756	0.53	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	-0.
Ti 334.941	Ti	bu	-0.00027403	-0.00027403	mg/L	864.84033744	0.00005573	20.33772798	25.59612076	2.96	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	-0.
Tl 190.794	Tl	bu	-0.00232577	-0.00232577	mg/L	-1.15804832	0.00188368	80.99167912	5.97678970	> 100.00	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	-0.
V 292.401	V	Kbu	-0.00408302	-0.00408302	mg/L	-203.92885222	0.00010614	2.59954936	5.45883025	2.68	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	-0.
Zn 206.200	Zn	bu	-0.00254732	-0.00254732	mg/L	311.51380556	0.00021415	8.40704279	16.75836084	5.38	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	-0.
Y 371.029	Y		0.95	0.95	Ratio	900539.31	0.01	0.67	6034.05	0.67		-	-	-	Fitted	-	-	0.9
Y 371.029	Y-R		0.95	0.95	Ratio	217821.06	0.00	0.42	922.12	0.42		-	-	-	Fitted	-	-	0.9

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09			IDF:	1.0
Seqnum:	673110383015	File:	icp data	Time:	17-MAR-2023 16:31
Cal:	673110383001	Caldate:	17-MAR-2023		

Standards: S18098

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	0.9724	mg/L	-3	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	952535	899866	-5.53
Yttrium	R	228232	217341	-4.77

Instrument ID: MET09

Label: ICSAB,S18098 | Rack:Tube: S1:15 | Type: QC

Date Time: 3/17/2023 4:31:04 PM | Weight: - | Volume: -

Dilution: - | %RSE limit: - | Calibration Coefficient [3]: -

LIMS ID: | Customer: | Customer Ref.:

Sample Date Time: | Sample Site: | Description:

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Conc Repli
Ag 328.068	Ag	b	1.05727642	1.05727642	mg/L	114995.26374854	0.04111888	3.88913228	4432.61904503	3.85		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	1.01
Al 396.152	Al	bo	343.02406973	343.02406973	mg/L	18764587.23321650	12.76736245	3.72200192	698349.03107764	3.72	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	329
As 188.980	As	bu	-0.01519810	-0.01519810	mg/L	65.66702969	0.00356860	23.48057967	16.71292855	25.45	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	-0.0
B 249.678	B	bu	-0.02839288	-0.02839288	mg/L	1082.09333344	0.00017043	0.60025645	8.70713636	0.80	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	-0.0
Ba 230.424	Ba	b	0.49809018	0.49809018	mg/L	69603.72581627	0.01921094	3.85692032	2660.27987190	3.82	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.47
Be 313.107	Be	b	0.50481777	0.50481777	mg/L	1563662.81111533	0.01840522	3.64591423	57004.55846260	3.65	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.48
Ca 317.933	Ca-R	bo	383.54206092	383.54206092	mg/L	6556835.34271768	0.51020760	0.13302520	8717.87288069	0.13	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	383
Cd 214.439	Cd	b	0.97374377	0.97374377	mg/L	264187.50624507	0.03268546	3.35668002	8837.36481556	3.35	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	0.93
Co 230.786	Co	b	0.47384806	0.47384806	mg/L	26311.31814505	0.01653068	3.48860295	913.82122965	3.47	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.45
Cr 267.716	Cr	b	0.48322520	0.48322520	mg/L	42488.73992122	0.01635131	3.38378585	1434.05119300	3.38	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.46
Cu 324.754	Cu	b	0.52689536	0.52689536	mg/L	31615.77176606	0.02029129	3.85110520	1181.84185568	3.74	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.50
Fe 259.940	Fe	Gbo	508.25659470	508.25659470	mg/L	10936932.51418760	17.06655263	3.35786152	367226.69180844	3.36	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	490
K 766.491	K-R	b	0.03009825	0.03009825	mg/L	111.86555375	0.00931321	30.94267758	17.52920999	15.67	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	0.03
Li 670.783	Li-R	b	0.00381006	0.00381006	mg/L	213.48653320	0.00057901	15.19692279	80.12490048	37.53	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.00
Mg 279.800	Mg-R	bo	393.85131312	393.85131312	mg/L	1138968.43630404	0.60720726	0.15417170	1755.26727294	0.15	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	393
Mn 257.610	Mn	b	0.48656526	0.48656526	mg/L	317876.20621461	0.01677303	3.44723165	10919.97926689	3.44	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.46
Mo 204.598	Mo	b	0.00464837	0.00464837	mg/L	282.48921149	0.00441383	94.95427604	53.76469494	19.03	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.00
Na 589.592	Na-R	bu	-0.09809949	-0.09809949	mg/L	5936.64673993	0.00230069	2.34525873	30.46414215	0.51	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	-0.0
Ni 231.604	Ni	b	0.93055721	0.93055721	mg/L	29196.16469965	0.03247967	3.49034687	1010.53196318	3.46	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	0.89
P 177.434	P	bu	0.00035749	0.00035749	mg/L	9.02422033	0.00383344	1072.31893224	3.81819264	42.31		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	0.00
Pb 220.353	Pb	b	0.97235762	0.97235762	mg/L	10722.75945530	0.03082699	3.17033498	389.44542475	3.63	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.93
S 181.972	S	b	0.09848922	0.09848922	mg/L	418.69577369	0.00263058	2.67093587	5.76112777	1.38		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	0.09
Sb 206.834	Sb	b	0.00517113	0.00517113	mg/L	66.05664799	0.00349999	67.68333598	20.77388822	31.45	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.00
Se 196.026	Se	b	0.00654939	0.00654939	mg/L	89.53292696	0.00268783	41.03935158	8.18792042	9.15	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.00
Si 251.611	Si	b	0.03428835	0.03428835	mg/L	1446.83241220	0.00082467	2.40511438	8.86367607	0.61		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	0.03
Sn 189.925	Sn	bu	-0.00012705	-0.00012705	mg/L	53.77002575	0.00060530	476.43293641	9.41835364	17.52	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.00
Sr 421.552	Sr-R	bu	-0.01912117	-0.01912117	mg/L	2555.26172022	0.00000499	0.02607497	3.16775614	0.12	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	-0.0
Ti 334.941	Ti	bu	0.00002628	0.00002628	mg/L	1002.85856725	0.00018807	715.56809791	86.37763620	8.61	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	-0.0
Tl 190.794	Tl	b	0.00257006	0.00257006	mg/L	14.40413582	0.00296842	115.50024233	9.41860649	65.39	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	0.00
V 292.401	V	b	0.49052480	0.49052480	mg/L	25234.82711095	0.01642389	3.34822815	844.68734197	3.35	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.47
Zn 206.200	Zn	b	0.95282349	0.95282349	mg/L	75079.19143745	0.03140788	3.29629586	2457.78638845	3.27	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	0.91
Y 371.029	Y		0.94	0.94	Ratio	899865.52	0.00	0.40	3560.81	0.40		-	-	-	Fitted	-	-	0.94
Y 371.029	Y-R		0.95	0.95	Ratio	217341.35	0.00	0.31	675.08	0.31		-	-	-	Fitted	-	-	0.95

ENTHALPY CONTINUING CALIBRATION FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09			IDF:	1.0
Seqnum:	673110383026	File:	icp data	Time:	17-MAR-2023 17:17
Cal:	673110383001	Caldate:	17-MAR-2023		

Standards: S18110

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	-10046	11729	1.000	0.9540	mg/L	-5	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	952535	986581	3.57
Yttrium	R	228232	239364	4.88

Instrument ID: MET09

Label: CCV,S18110 | Rack:Tube: S1:12 | Type: QC
Date Time: 3/17/2023 5:17:55 PM | Weight: - | Volume: -
Dilution: - | %RSE limit: - | Calibration Coefficient [3]: -
LIMS ID: | Customer: | Customer Ref.:
Sample Date Time: | Sample Site: | Description:
Replicates: 3 | Flags Replicate 1: | Flags Replicate 2:
Flags Replicate 3:

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration %RSD	Intensity SD	Intensity %RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	S	0.47989571	0.47989571	mg/L	52404.97080286	0.01226535	2.55583603	1322.20563499	2.52		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	0.46732509
Al 396.152	Al	S	0.90895572	0.90895572	mg/L	51027.50994830	0.02125722	2.33864159	1162.72696463	2.28	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	0.88762349
As 188.980	As	S	1.10896777	1.10896777	mg/L	5288.69071680	0.00398672	0.35949821	18.67110597	0.35	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	1.10892686
B 249.678	B	S	0.96257188	0.96257188	mg/L	50366.19553077	0.02346453	2.43769153	1198.78401679	2.38	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	0.93776987
Ba 230.424	Ba	S	0.95200316	0.95200316	mg/L	132124.53915045	0.02309487	2.42592390	3198.11622976	2.42	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	0.92874700
Be 313.107	Be	S	1.00238873	1.00238873	mg/L	3104778.23604364	0.02321907	2.31637408	71913.98790520	2.32	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.97844568
Ca 317.933	Ca-R	S	49.46277078	49.46277078	mg/L	847558.70225574	0.04280205	0.08653387	731.35488932	0.09	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	49.48146567
Cd 214.439	Cd	S	0.97781220	0.97781220	mg/L	264442.91243824	0.02527737	2.58509410	6834.39307563	2.58	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	0.95372051
Co 230.786	Co	S	0.95911708	0.95911708	mg/L	53056.19910765	0.02412228	2.51505029	1333.48731385	2.51	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.93315139
Cr 267.716	Cr	S	0.93744176	0.93744176	mg/L	82152.49576991	0.02237664	2.38698959	1962.48809098	2.39	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	0.91484618
Cu 324.754	Cu	S	0.95069680	0.95069680	mg/L	56315.98431329	0.02149994	2.26149332	1252.23820120	2.22	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.92872669
Fe 259.940	Fe	S	3.54871273	3.54871273	mg/L	76389.10226386	0.08700120	2.45162689	1872.03367705	2.45	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	3.45494193
K 766.491	K-R	S	55.68303968	55.68303968	mg/L	104863.31639609	0.01907517	0.03425669	35.90306280	0.03	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	55.68423309
Li 670.783	Li-R	S	0.95375592	0.95375592	mg/L	131949.05463476	0.00130571	0.13690233	180.68749643	0.14	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.95311503
Mg 279.800	Mg-R	S	49.70107113	49.70107113	mg/L	143858.29665621	0.01517940	0.03054140	43.87942861	0.03	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	49.71304366
Mn 257.610	Mn	S	0.94226318	0.94226318	mg/L	614171.60139718	0.02343088	2.48666014	15254.53231151	2.48	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	0.91973696
Mo 204.598	Mo	S	0.96489488	0.96489488	mg/L	11885.05856291	0.02472230	2.56217518	301.14144089	2.53	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.99306175
Na 589.592	Na-R	S	46.34358735	46.34358735	mg/L	624442.60534097	0.06077969	0.13115016	804.80355388	0.13	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	46.27383989
Ni 231.604	Ni	S	0.93366161	0.93366161	mg/L	29156.56534530	0.01816586	1.94565792	565.18988146	1.94	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	0.91463848
P 177.434	P	S	4.31237045	4.31237045	mg/L	4305.17197601	0.09258994	2.14707752	92.22164496	2.14		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	4.21835807
Pb 220.353	Pb	S	0.95401692	0.95401692	mg/L	11729.19323906	0.02261026	2.37000612	285.64128466	2.44	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	0.93027791
S 181.972	S	S	5.09940624	5.09940624	mg/L	11320.40172573	0.10469446	2.05307154	229.28680560	2.03		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	4.98994178
Sb 206.834	Sb	S	0.95073572	0.95073572	mg/L	5613.95175340	0.01560672	1.64154182	92.63230350	1.65	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.93420114
Se 196.026	Se	S	0.91224702	0.91224702	mg/L	2846.93524211	0.04426125	4.85189311	134.83284196	4.74	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.96335429
Si 251.611	Si	S	5.39310943	5.39310943	mg/L	58969.08654380	0.25141346	4.66175342	2702.21629870	4.58		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	5.13528845
Sn 189.925	Sn	S	4.82302196	4.82302196	mg/L	75083.53407098	0.12139118	2.51691127	1888.81302007	2.52	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	4.69955768
Sr 421.552	Sr-R	S	0.94046663	0.94046663	mg/L	598198.77288102	0.00400500	0.42585201	2544.57612175	0.43	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	0.93996186
Ti 334.941	Ti	S	0.95970199	0.95970199	mg/L	441776.20650001	0.02676764	2.78916173	12293.91451964	2.78	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.93387166
Tl 190.794	Tl	S	1.23081292	1.23081292	mg/L	3910.00464319	0.03836372	3.11694158	121.72551394	3.11	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	1.19354953
V 292.401	V	S	0.95574801	0.95574801	mg/L	49136.50611124	0.02366849	2.47643659	1217.28029004	2.48	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.93127005
Zn 206.200	Zn	S	0.98258530	0.98258530	mg/L	77091.56536668	0.02346185	2.38776686	1835.97885893	2.38	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	0.96027628
Y 371.029	Y		1.04	1.04	Ratio	986580.82	0.00	0.34	3357.92	0.34		-	-	-	Fitted	-	-	1.03
Y 371.029	Y-R		1.05	1.05	Ratio	239363.52	0.00	0.42	1005.56	0.42		-	-	-	Fitted	-	-	1.05

ENTHALPY INSTRUMENT BLANK FOR 481683 METALS Wipe

EPA 6010B

Inst:	MET09			IDF:	1.0
Seqnum:	673110383027	File:	icp data	Time:	17-MAR-2023 17:21
Cal:	673110383001	Caldate:	17-MAR-2023		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/L	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	A	952535	1007830	5.81
Yttrium	R	228232	247428	8.41

Instrument ID: MET09

Label: CCB | Rack:Tube: S1:1 | Type: QC

Date Time: 3/17/2023 5:21:09 PM | Weight: - | Volume: -

Dilution: - | %RSE limit: - | Calibration Coefficient [3]: -

LIMS ID: | Customer: | Customer Ref.:

Sample Date Time: | Sample Site: | Description:

Replicates: 3

Element	Element Label	Flags	Unadjusted Data	Concentration	Unit	Intensity	Concentration SD	Concentration % RSD	Intensity SD	Intensity % RSD	%RSE	Internal Standard	Calibration fit	Correlation coefficient	Background correction	Calibration Coefficient [1]	Calibration Coefficient [2]	Concentration Replicate 1
Ag 328.068	Ag	u	0.00036919	0.00036919	mg/L	676.95446076	0.00052760	142.90889928	56.87571363	8.40		Y (371.029 nm)	Linear	1.00000	Fitted	637.172442938116	107800.095632447	0.00061743
Al 396.152	Al	Zu	-0.00438196	-0.00438196	mg/L	990.48145098	0.00015711	3.58530892	8.59343301	0.87	51.52132332	Y (371.029 nm)	Linear	0.99995	Fitted	1230.15772646239	54697.9874518874	-0.00449371
As 188.980	As	Zu	0.00583482	0.00583482	mg/L	119.52067773	0.00851652	145.96018212	39.88562439	33.37	125.33006610	Y (371.029 nm)	Linear	0.99995	Fitted	92.1963269171181	4683.32599957251	-0.00337188
B 249.678	B	u	-0.00325439	-0.00325439	mg/L	850.11414000	0.00018325	5.63071939	9.36186546	1.10	6.08974369	Y (371.029 nm)	Linear	0.99997	Fitted	1016.37087576369	51089.1908197996	-0.00336956
Ba 230.424	Ba	u	-0.00011188	-0.00011188	mg/L	263.79016919	0.00012668	113.22255083	17.54164565	6.65	6.12347494	Y (371.029 nm)	Linear	0.99986	Fitted	279.305756626612	138477.330413747	-0.00015539
Be 313.107	Be		0.00003845	0.00003845	mg/L	313.70132655	0.00000596	15.50914162	18.47107236	5.89	6.86124664	Y (371.029 nm)	Linear	0.99987	Fitted	194.608686567264	3097194.65172898	0.00004531
Ca 317.933	Ca-R	u	-0.02048247	-0.02048247	mg/L	1982.14879825	0.00160670	7.84427420	27.45355918	1.39	15.43094313	Y-R (371.029 nm)	Linear	0.99986	Fitted	2332.1686615895	17086.9131361875	-0.01946469
Cd 214.439	Cd	u	-0.00015669	-0.00015669	mg/L	22.69125399	0.00000806	5.14215917	2.17848933	9.60	12.95555271	Y (371.029 nm)	Linear	0.99979	Fitted	65.0685862184467	270376.004897596	-0.00016136
Co 230.786	Co		0.00034180	0.00034180	mg/L	56.04754511	0.00023888	69.88917930	13.20562184	23.56	9.15684163	Y (371.029 nm)	Linear	0.99988	Fitted	37.149133299291	55280.3254529415	0.00059566
Cr 267.716	Cr	u	-0.00004136	-0.00004136	mg/L	-68.93291279	0.00011791	285.06374034	10.34114385	15.00	7.57124193	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-65.2989406181839	87702.5472294298	-0.00017559
Cu 324.754	Cu	u	-0.00014476	-0.00014476	mg/L	916.13854708	0.00018860	130.28245797	10.98465967	1.20	8.47601444	Y (371.029 nm)	Linear	0.99997	Fitted	924.599326655391	58243.7873361551	0.00004091
Fe 259.940	Fe	Z	0.01758357	0.01758357	mg/L	368.50678751	0.00257148	14.62435492	55.33148312	15.02	331.22819532	Y (371.029 nm)	Linear	0.99984	Off-Peak Left+Right	-9.80414463192881	21517.3327478675	0.01493860
K 766.491	K-R	u	0.00435338	0.00435338	mg/L	61.29645756	0.01367604	314.14722245	25.74088142	41.99	3.95812247	Y-R (371.029 nm)	Linear	0.99996	Fitted	53.1135005747371	1882.18864379465	0.00959993
Li 670.783	Li-R	u	-0.00009846	-0.00009846	mg/L	-19.29148684	0.00021972	223.14670463	30.40498002	> 100.00	15.00451762	Y-R (371.029 nm)	Linear	0.99998	FACT	-5.68806930153482	138382.125303802	0.00015409
Mg 279.800	Mg-R	u	-0.04538129	-0.04538129	mg/L	51.38850974	0.00148726	3.27726333	4.29926774	8.37	72.73814578	Y-R (371.029 nm)	Linear	0.99989	Fitted	182.56648882441	2890.72183297442	-0.04687105
Mn 257.610	Mn	u	-0.00027331	-0.00027331	mg/L	477.82454325	0.00001760	6.44137958	11.46154862	2.40	6.90574853	Y (371.029 nm)	Linear	0.99975	Fitted	655.767527144397	651043.854881899	-0.00026853
Mo 204.598	Mo	Z	0.03869612	0.03869612	mg/L	603.06331063	0.01426645	36.86791588	173.77917839	28.82	76.40817331	Y (371.029 nm)	Linear	0.99970	Fitted	131.715663366314	12180.9651264491	0.02309478
Na 589.592	Na-R	u	-0.00806327	-0.00806327	mg/L	370.81169940	0.00535374	66.39662944	70.89058050	19.12	10.40147248	Y-R (371.029 nm)	Linear	0.99994	Fitted	464.677419360291	13241.3244736862	-0.00218306
Ni 231.604	Ni	u	-0.00026826	-0.00026826	mg/L	81.08600829	0.00029719	110.78481963	9.24648495	11.40	7.64121691	Y (371.029 nm)	Linear	0.99982	Off-Peak Left+Right	89.440189377669	31112.7491340211	-0.00030971
P 177.434	P	u	-0.00517577	-0.00517577	mg/L	5.03673913	0.00157931	30.51344151	1.57302455	31.23		Y (371.029 nm)	Linear	1.00000	Fitted	10.1917260653007	996.022337441543	-0.00614014
Pb 220.353	Pb	u	-0.00261530	-0.00261530	mg/L	-356.10464723	0.00130595	49.93506380	16.49842010	4.63	15.30797041	Y (371.029 nm)	Linear	0.99986	Off-Peak Right	-323.190074831608	12633.2599137306	-0.00292180
S 181.972	S	u	-0.00241331	-0.00241331	mg/L	142.48253348	0.00073309	30.37680597	1.60550250	1.13		Y (371.029 nm)	Linear	1.00000	Fitted	147.770785443073	2190.0567573257	-0.00323064
Sb 206.834	Sb		0.00840793	0.00840793	mg/L	22.70262321	0.00426491	50.72482605	25.31398596	> 100.00	16.19860880	Y (371.029 nm)	Linear	0.99961	Off-Peak Right	-27.2077625024194	5935.40968905277	0.00355530
Se 196.026	Se	Z	0.10810457	0.10810457	mg/L	398.18524931	0.02118957	19.60099601	64.54969388	16.21	54.31717647	Y (371.029 nm)	Linear	0.99882	Fitted	68.8685596286084	3046.29536455751	0.08408541
Si 251.611	Si		0.00151916	0.00151916	mg/L	1017.67323213	0.00086018	56.62217454	9.24531926	0.91		Y (371.029 nm)	Linear	1.00000	Fitted	1001.35384745425	10748.097036295	0.00200690
Sn 189.925	Sn		0.00314105	0.00314105	mg/L	85.97879504	0.00102290	32.56548793	15.91603336	18.51	12.20197296	Y (371.029 nm)	Linear	0.99986	Fitted	37.1057488593609	15559.7216228543	0.00215513
Sr 421.552	Sr-R	u	-0.00005429	-0.00005429	mg/L	105.14105437	0.00003274	60.31365700	20.80334276	19.79	6.34575673	Y-R (371.029 nm)	Linear	0.99980	Fitted	140.546549837612	635350.464390488	-0.00001651
Ti 334.941	Ti		0.00166933	0.00166933	mg/L	1781.16201722	0.00086365	51.73622586	396.65758050	22.27	5.76958220	Y (371.029 nm)	Linear	0.99982	Fitted	1014.47824393117	459282.709501466	0.00067210
Tl 190.794	Tl	Z	0.01704908	0.01704908	mg/L	58.30932013	0.00219731	12.88812555	6.97190918	11.96	41.93706153	Y (371.029 nm)	Linear	0.99963	Fitted	4.21387536064139	3172.93305796944	0.01628354
V 292.401	V		0.00037210	0.00037210	mg/L	-5.20597422	0.00029445	79.13180027	15.14376320	> 100.00	3.59916253	Y (371.029 nm)	Linear	0.99992	Off-Peak Left+Right	-24.3377841565341	51430.4084883968	0.00058414
Zn 206.200	Zn	u	-0.00010044	-0.00010044	mg/L	171.76473816	0.00008730	86.91835515	6.83169848	3.98	7.40275808	Y (371.029 nm)	Linear	0.99954	Fitted	179.638177754399	78253.8105921135	-0.00018995
Y 371.029	Y		1.06	1.06	Ratio	1007829.61	0.01	0.61	6108.61	0.61		-	-	-	Fitted	-	-	1.05
Y 371.029	Y-R		1.08	1.08	Ratio	247427.70	0.01	0.57	1412.38	0.57		-	-	-	Fitted	-	-	1.09

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

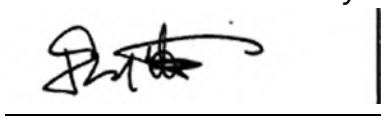
Lab Job Number:	481689
Report Level:	II
Report Date:	03/24/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	481689
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	03/16/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C4E-EXT-2 TO 3-230316-P-WF	481689-001	03/16/23 11:00	Wipe
ARCH-C4E-EXT-2 TO 3-230316-L-WF	481689-002	03/16/23 11:00	Wipe
ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-P-LA	481689-003	03/16/23 12:10	Wipe
ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-L-LA	481689-004	03/16/23 12:10	Wipe
ARCH-C4E-PS-3.5-230316-P-G	481689-005	03/16/23 13:10	Wipe
ARCH-C4E-PS-3.5-230316-L-G	481689-006	03/16/23 13:10	Wipe
ARCH-C3E-PS-3.5-230316-P-G	481689-007	03/16/23 12:45	Wipe
ARCH-C3E-PS-3.5-230316-L-G	481689-008	03/16/23 12:45	Wipe
ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230316-L-LA	481689-009	03/16/23 13:20	Wipe
ARCH-C3E-DG-4 TO 4.5-UP-C3.4-VS-230316-P-LA	481689-010	03/16/23 13:00	Wipe
ARCH-C3E-DG-4 TO 4.5-UP-C3.4-VS-230316-L-LA	481689-011	03/16/23 13:00	Wipe
ARCH-C3E-DG-4 TO 4.5-230316-P-FB	481689-012	03/16/23 11:10	Wipe
ARCH-C3E-DG-4 TO 4.5-230316-L-FB	481689-013	03/16/23 11:10	Wipe
ARCH-C5E-INT-3.5 TO 4.5-230316-P-WF	481689-014	03/16/23 11:40	Wipe
ARCH-C5E-INT-3.5 TO 4.5-230316-P-DUP-WF	481689-015	03/16/23 11:40	Wipe
ARCH-C5E-INT-3.5 TO 4.5-230316-L-WF	481689-016	03/16/23 11:40	Wipe
ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-P-LA	481689-017	03/16/23 11:30	Wipe

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	481689
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	03/16/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-L-LA	481689-018	03/16/23 11:30	Wipe
ARCH-C3E-EXT-4 TO 5-230316-P-WF	481689-019	03/16/23 11:25	Wipe
ARCH-C3E-EXT-4 TO 5-230316-L-WF	481689-020	03/16/23 11:25	Wipe
ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-P-LA	481689-021	03/16/23 12:35	Wipe
ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-L-LA	481689-022	03/16/23 12:35	Wipe
ARCH-C5E-PS-4.5-230316-P-G	481689-023	03/16/23 12:10	Wipe
ARCH-C5E-PS-4.5-230316-L-G	481689-024	03/16/23 12:10	Wipe
ARCH-C3E-PS-4.5-230316-P-G	481689-025	03/16/23 11:55	Wipe
ARCH-C3E-PS-4.5-230316-L-G	481689-026	03/16/23 11:55	Wipe
ARCH-C4E-DG-4.5 TO 5-230316-P-FB	481689-027	03/16/23 12:55	Wipe
ARCH-C4E-DG-4.5 TO 5-230316-L-FB	481689-028	03/16/23 12:55	Wipe
ARCH-C4E-DG-4.5 TO 5-230316-L-DUP-FB	481689-029	03/16/23 12:55	Wipe
ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-P-LA	481689-030	03/16/23 12:45	Wipe
ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-L-LA	481689-031	03/16/23 12:45	Wipe
230316-P-MEDBLANK2	481689-032	03/16/23 11:02	Wipe
230316-L-MEDBLANK2	481689-033	03/16/23 11:02	Wipe

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Austin Moore	Lab Job Number: 481689 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 03/16/23

This data package contains sample and QC results for thirty three wipe samples, requested for the above referenced project on 03/17/23. The samples were received cold and intact.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

481689

ENTHALPY ANALYTICAL

Chain of Custody Record COC ID:

Page: 1 of 3

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RINC31721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott + M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
1	ARCH-C4E-EXT-2 TO 3-230316-P-WF	3/16/2023	1100	WP	1	--	X		
2	ARCH-C4E-EXT-2 TO 3-230316-L-WF	3/16/2023	1100	WP	1	--		X	
3	ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-P-LA	3/16/2023	1210	WP	1	--	X		
4	ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-L-LA	3/16/2023	1210	WP	1	--		X	
5	ARCH-C4E-PS-3.5-230316-P-G	3/16/2023	1310	WP	1	--	X		
6	ARCH-C4E-PS-3.5-230316-L-G	3/16/2023	1310	WP	1	--		X	
7	ARCH-C3E-PS-3.5-230316-P-G	3/16/2023	1245	WP	1	--	X		
8	ARCH-C3E-PS-3.5-230316-L-G	3/16/2023	1245	WP	1	--		X	
9	ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230316-L-LA	3/16/2023	1320	WP	1	--		X	
10	ARCH-C3E-DG-4 TO 4.5-UP-C3.4-VS-230316-P-LA	3/16/2023	1300	WP	1	--	X		
11	ARCH-C3E-DG-4 TO 4.5-UP-C3.4-VS-230316-L-LA	3/16/2023	1300	WP	1	--		X	
12	ARCH-C3E-DG-4 TO 4.5-230316-P-FB	3/16/2023	1110	WP	1	--	X		
13	ARCH-C3E-DG-4 TO 4.5-230316-L-FB	3/16/2023	1110	WP	1	--		X	
14	ARCH-C5E-INT-3.5 TO 4.5-230316-P-WF	3/16/2023	1140	WP	1	--	X		
15	ARCH-C5E-INT-3.5 TO 4.5-230316-P-DUP-WF	3/16/2023	1140	WP	1	--	X		

Analysis Request

Test Instructions / Comments

Confirmation Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm2 basis

Report lead concentrations on a µg/ft2 basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

6x Rivet Type 1 = 0.0828 ft²

3x Rivet Type 2 = 0.0300 ft²

2x Rivet Type 2 = 0.0200 ft²

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Tyler Sinnott	Rincon / Envi. Scientist	3/16/23 1435
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	3/16/23 14:35
2 Relinquished By:	Audrey Hudson	"	"	3/16/23 16:20
2 Received By:		Mary Yi	Enthalpy	3/16/23 16:20
3 Relinquished By:		JJP		3.16.23 17:14
3 Received By:				3/17/23 1050

481689

ENTHALPY ANALYTICAL

Chain of Custody Record — COC ID:

Page: 2 of 3

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott + M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
16	ARCH-C5B-INT-3.5 TO 4.5-230316-L-WF	3/16/2023	1140	WP	1	--		X		**Confirmation Wipe Samples - Level II Report/Stage 2A Validation** Report PCB concentrations on a µg/100cm2 basis Report lead concentrations on a µg/ft2 basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)
17	ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-P-LA	3/16/2023	1130	WP	1	--	X			
18	ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-L-LA	3/16/2023	1130	WP	1	--		X		
19	ARCH-C3E-EXT-4 TO 5-230316-P-WF	3/16/2023	1125	WP	1	--	X			
20	ARCH-C3E-EXT-4 TO 5-230316-L-WF	3/16/2023	1125	WP	1	--		X		
21	ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-P-LA	3/16/2023	1235	WP	1	--	X			
22	ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-L-LA	3/16/2023	1235	WP	1	--		X		2x Rivet Type 2 =
23	ARCH-C5E-PS-4.5-230316-P-G	3/16/2023	1210	WP	1	--	X			
24	ARCH-C5E-PS-4.5-230316-L-G	3/16/2023	1210	WP	1	--		X		
25	ARCH-C3E-PS-4.5-230316-P-G	3/16/2023	1155	WP	1	--	X			
26	ARCH-C3E-PS-4.5-230316-L-G	3/16/2023	1155	WP	1	--		X		4x Rivet Type 1 =
27	ARCH-C4E-DG-4.5 TO 5-230316-P-FB	3/16/2023	1255	WP	1	--	X			
28	ARCH-C4E-DG-4.5 TO 5-230316-L-FB	3/16/2023	1255	WP	1	--		X		
29	ARCH-C4E-DG-4.5 TO 5-230316-L-DUP-FB	3/16/2023	1255	WP	1	--		X		
30	ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-P-LA	3/16/2023	1245	WP	1	--	X			

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	TS Sinnott	Tyler Sinnott	~~Rincon~~ Enthalpy/Envi. Scientist	3/16/23 1435
1 Received By:	Audrey Hudson	Audrey Hudson	Enthalpy "	3/16/23 14:35
2 Relinquished By:	Audrey Hudson	"	"	3/16/23 16:20
2 Received By:		Macconnell Yip		3/16/23 16:20
3 Relinquished By:		TJP	Enthalpy	3.16.23 17:14
3 Received By:				

481689

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 3 of 3

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

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Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott + M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B								HOLD
31	ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-L-LA	3/16/2023	1245	WP	1	–		X								
32	230316-P-MEDBLANK2	3/16/2023	1102	WP	1	–	X									
33	230316-L-MEDBLANK2	3/16/2023	1102	WP	1	–		X								
34																
35																
36																
37																
38																
39																
40																
41																
42																
43																
44																
45																

Test Instructions / Comments

Confirmation Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm2 basis

Report lead concentrations on a µg/ft2 basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Tyler Sinnott	Rincon / Envi Scientist	3/16/23 1435
[1] Received By:	Audrey Hudson	Audrey Hudson	ENTHALPY	3/16/23 14:35
[2] Relinquished By:	Audrey Hudson			3/16/23 16:20
[2] Received By:		Maryann Li Yip		3/16/23 16:20
[3] Relinquished By:		IJT	Enthalpy	3.16.23 17:14
[3] Received By:				

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 481689 Client: Rincon

Date Received: 3.16.23 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☑ Yes. If yes, where? ☑ on cooler, ☐ on samples, ☐ on package

☑ Date: 3/16/23 How many 1 ☑ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 3.16.23 By (print) JJP (sign) [signature]

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H_2SO_4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO_3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 3.16.23 **By (print)** JJP **(sign)** [signature]

Date Labeled 3.16.23 **By (print)** JJP **(sign)** [signature]

Enthalpy Analytical - Berkeley Rev.15.1, 09/13/2019

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 3/17/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 4.1 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.1 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

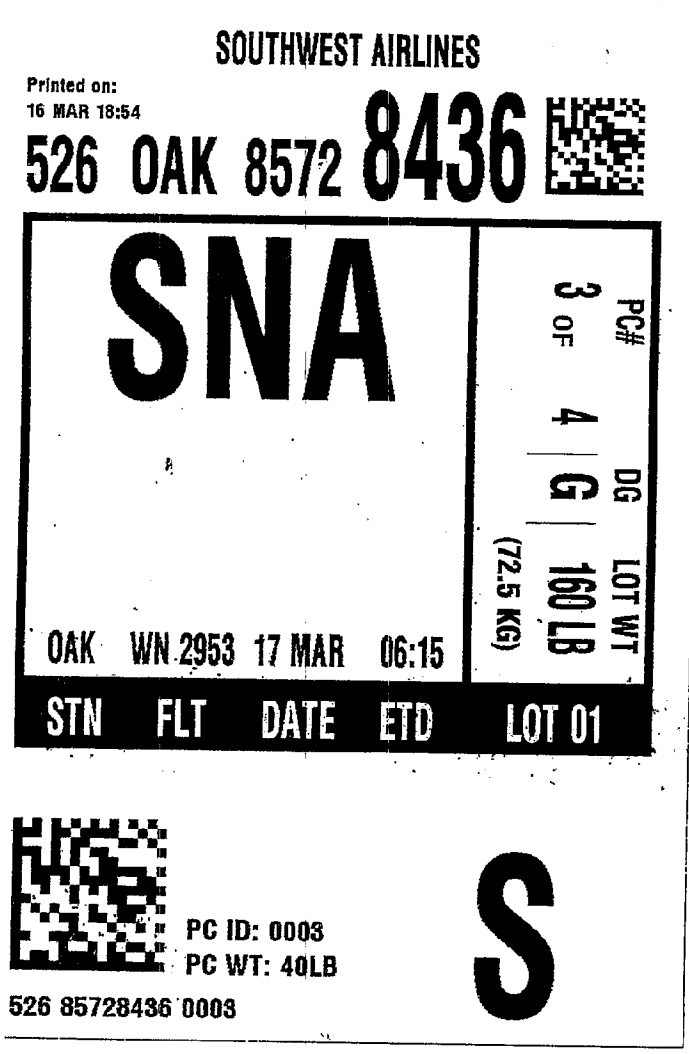
Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 3/17/23


SOUTHWEST AIRLINES
Printed on:
16 MAR 18:54
526 OAK 8572 8436
SNA
PC# 3 OF 4
DG G
LOT WT 160 LB (72.5 KG)
OAK WN 2953 17 MAR 06:15
STN FLT DATE ETD
LOT 01
PC ID: 0003
PC WT: 40LB
526 85728436 0003
S

3.1 / 4.9

Enthalpy Analytical - Orange Analytical Report

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C4E-EXT-2 TO 3-230316-P-WF **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-001 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-001 Surrogate	%REC	Limits
TCMX (PCB)	77	19-121
Decachlorobiphenyl (PCB)	84	19-121

Field ID: ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-P-LA **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-003 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-003 Surrogate	%REC	Limits
TCMX (PCB)	78	19-121
Decachlorobiphenyl (PCB)	86	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C4E-PS-3.5-230316-P-G **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-005 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

DiIn Fac: 1.000 **Analyzed:** 03/20/23

481689-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-005 Surrogate	%REC	Limits
TCMX (PCB)	78	19-121
Decachlorobiphenyl (PCB)	84	19-121

Field ID: ARCH-C3E-PS-3.5-230316-P-G **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-007 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

DiIn Fac: 1.000 **Analyzed:** 03/20/23

481689-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-007 Surrogate	%REC	Limits
TCMX (PCB)	78	19-121
Decachlorobiphenyl (PCB)	83	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-DG-4 TO 4.5-UP-C3.4-VS-230316-P-LA **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-010 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-010 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-010 Surrogate	%REC	Limits
TCMX (PCB)	87	19-121
Decachlorobiphenyl (PCB)	90	19-121

Field ID: ARCH-C3E-DG-4 TO 4.5-230316-P-FB **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-012 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-012 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-012 Surrogate	%REC	Limits
TCMX (PCB)	81	19-121
Decachlorobiphenyl (PCB)	88	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-INT-3.5 TO 4.5-230316-P-WF **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-014 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-014 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-014 Surrogate	%REC	Limits
TCMX (PCB)	81	19-121
Decachlorobiphenyl (PCB)	84	19-121

Field ID: ARCH-C5E-INT-3.5 TO 4.5-230316-P-DUP-WF **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-015 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-015 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-015 Surrogate	%REC	Limits
TCMX (PCB)	81	19-121
Decachlorobiphenyl (PCB)	87	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-P-LA **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-017 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-017 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-017 Surrogate	%REC	Limits
TCMX (PCB)	66	19-121
Decachlorobiphenyl (PCB)	73	19-121

Field ID: ARCH-C3E-EXT-4 TO 5-230316-P-WF **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-019 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-019 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-019 Surrogate	%REC	Limits
TCMX (PCB)	70	19-121
Decachlorobiphenyl (PCB)	73	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-P-LA **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-021 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

DiIn Fac: 1.000 **Analyzed:** 03/20/23

481689-021 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-021 Surrogate	%REC	Limits
TCMX (PCB)	78	19-121
Decachlorobiphenyl (PCB)	79	19-121

Field ID: ARCH-C5E-PS-4.5-230316-P-G **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-023 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

DiIn Fac: 1.000 **Analyzed:** 03/20/23

481689-023 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-023 Surrogate	%REC	Limits
TCMX (PCB)	84	19-121
Decachlorobiphenyl (PCB)	88	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-PS-4.5-230316-P-G **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-025 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-025 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-025 Surrogate	%REC	Limits
TCMX (PCB)	70	19-121
Decachlorobiphenyl (PCB)	73	19-121

Field ID: ARCH-C4E-DG-4.5 TO 5-230316-P-FB **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-027 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-027 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-027 Surrogate	%REC	Limits
TCMX (PCB)	68	19-121
Decachlorobiphenyl (PCB)	74	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-P-LA **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-030 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-030 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-030 Surrogate	%REC	Limits
TCMX (PCB)	75	19-121
Decachlorobiphenyl (PCB)	80	19-121

Field ID: 230316-P-MEDBLANK2 **Batch#:** 310026 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 8082

Lab ID: 481689-032 **Received:** 03/16/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 03/18/23

Diln Fac: 1.000 **Analyzed:** 03/20/23

481689-032 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

481689-032 Surrogate	%REC	Limits
TCMX (PCB)	71	19-121
Decachlorobiphenyl (PCB)	76	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BLANK **Batch#:** 310026 **Analysis:** EPA 8082

Lab ID: QC1052911 **Prepared:** 03/18/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 03/20/23

Dil'n Fac: 1.000 **Prep:** EPA 3546

QC1052911 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1052911 Surrogate	%REC	Limits
TCMX (PCB)	83	19-121
Decachlorobiphenyl (PCB)	94	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 310026 **Analysis:** EPA 8082

Lab ID: QC1052912 **Prepared:** 03/18/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 03/20/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1052912 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.558	91	60-140	ug/100 cm2
Aroclor-1260	5.000	4.194	84	60-140	ug/100 cm2

QC1052912 Surrogate	%REC	Limits
TCMX (PCB)	83	19-121
Decachlorobiphenyl (PCB)	87	19-121

Type: BSD **Batch#:** 310026 **Analysis:** EPA 8082

Lab ID: QC1052913 **Prepared:** 03/18/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 03/20/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1052913 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	4.397	88	60-140	ug/100 cm2	4	20
Aroclor-1260	5.000	4.097	82	60-140	ug/100 cm2	2	20

QC1052913 Surrogate	%REC	Limits
TCMX (PCB)	82	19-121
Decachlorobiphenyl (PCB)	86	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C4E-EXT-2 TO 3-230316-L-WF **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-002 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481689-002 Analyte	Result	RL	Units
Lead	**28**	0.25	ug/ft2

Field ID: ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-L-LA **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-004 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481689-004 Analyte	Result	RL	Units
Lead	**24**	0.25	ug/ft2

Field ID: ARCH-C4E-PS-3.5-230316-L-G **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-006 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481689-006 Analyte	Result	RL	Units
Lead	**19**	0.23	ug/ft2

Field ID: ARCH-C3E-PS-3.5-230316-L-G **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-008 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481689-008 Analyte	Result	RL	Units
Lead	**26**	0.25	ug/ft2

Field ID: ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230316-L-LA **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-009 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481689-009 Analyte	Result	RL	Units
Lead	**11**	0.24	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-DG-4 TO 4.5-UP-C3.4-VS-230316-L-LA **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-011 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481689-011 Analyte	Result	RL	Units
Lead	**21**	0.25	ug/ft2

Field ID: ARCH-C3E-DG-4 TO 4.5-230316-L-FB **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-013 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481689-013 Analyte	Result	RL	Units
Lead	**48**	0.25	ug/ft2

Field ID: ARCH-C5E-INT-3.5 TO 4.5-230316-L-WF **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-016 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481689-016 Analyte	Result	RL	Units
Lead	**170**	0.25	ug/ft2

Field ID: ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-L-LA **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-018 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481689-018 Analyte	Result	RL	Units
Lead	**72**	0.25	ug/ft2

Field ID: ARCH-C3E-EXT-4 TO 5-230316-L-WF **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-020 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Dln Fac: 1.000 **Analyzed:** 03/17/23

481689-020 Analyte	Result	RL	Units
Lead	**170**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-L-LA **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-022 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Diln Fac: 1.000 **Analyzed:** 03/17/23

481689-022 Analyte	Result	RL	Units
Lead	**120**	0.25	ug/ft2

Field ID: ARCH-C5E-PS-4.5-230316-L-G **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-024 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Diln Fac: 1.000 **Analyzed:** 03/17/23

481689-024 Analyte	Result	RL	Units
Lead	**110**	0.25	ug/ft2

Field ID: ARCH-C3E-PS-4.5-230316-L-G **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-026 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Diln Fac: 1.000 **Analyzed:** 03/17/23

481689-026 Analyte	Result	RL	Units
Lead	**59**	0.24	ug/ft2

Field ID: ARCH-C4E-DG-4.5 TO 5-230316-L-FB **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-028 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Diln Fac: 1.000 **Analyzed:** 03/17/23

481689-028 Analyte	Result	RL	Units
Lead	**34**	0.25	ug/ft2

Field ID: ARCH-C4E-DG-4.5 TO 5-230316-L-DUP-FB **Batch#:** 310014 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B
Lab ID: 481689-029 **Received:** 03/16/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 03/17/23
Diln Fac: 1.000 **Analyzed:** 03/17/23

481689-029 Analyte	Result	RL	Units
Lead	**42**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-L-LA **Batch#:** 310014 **Prep:** EPA 3050B

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B

Lab ID: 481689-031 **Received:** 03/16/23 **Analyst:** SBW

Matrix: Wipe **Prepared:** 03/17/23

Diln Fac: 1.000 **Analyzed:** 03/17/23

481689-031 Analyte	Result	RL	Units
Lead	**100**	0.25	ug/ft2

Field ID: 230316-L-MEDBLANK2 **Batch#:** 310014 **Prep:** EPA 3050B

Type: SAMPLE **Sampled:** 03/16/23 **Analysis:** EPA 6010B

Lab ID: 481689-033 **Received:** 03/16/23 **Analyst:** SBW

Matrix: Wipe **Prepared:** 03/17/23

Diln Fac: 1.000 **Analyzed:** 03/17/23

481689-033 Analyte	Result	RL	Units
Lead	**0.64**	0.25	ug/ft2

Type: BLANK **Batch#:** 310014 **Analysis:** EPA 6010B

Lab ID: QC1052866 **Prepared:** 03/17/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 03/17/23

Diln Fac: 1.000 **Prep:** EPA 3050B

QC1052866 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 481689 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 310014 **Analysis:** EPA 6010B

Lab ID: QC1052867 **Prepared:** 03/17/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 03/17/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1052867 Analyte	Spiked	Result	%REC	Limits	Units
Lead	100.0	106.2	106	80-120	ug/ft2

Type: BSD **Batch#:** 310014 **Analysis:** EPA 6010B

Lab ID: QC1052868 **Prepared:** 03/17/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 03/17/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1052868 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	100.0	102.7	103	80-120	ug/ft2	3	20

Legend

RPD: Relative Percent Difference

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

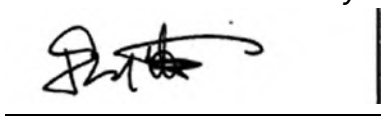
Lab Job Number:	483488
Report Level:	II
Report Date:	04/25/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	483488
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	04/17/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-P-LA	483488-001	04/14/23 07:11	Wipe
ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-L-LA	483488-002	04/14/23 07:11	Wipe
ARCH-C4E-PS-5.5-230414-P-G	483488-003	04/14/23 07:45	Wipe
ARCH-C4E-PS-5.5-230414-L-G	483488-004	04/14/23 07:45	Wipe
ARCH-C3E-PS-5.5-230414-P-G	483488-005	04/14/23 07:25	Wipe
ARCH-C3E-PS-5.5-230414-L-G	483488-006	04/14/23 07:25	Wipe
ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-P-LA	483488-007	04/14/23 08:00	Wipe
ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-L-LA	483488-008	04/14/23 08:00	Wipe
ARCH-C5E-DG-6 TO 6.5-230414-P-FB	483488-009	04/14/23 08:20	Wipe
ARCH-C5E-DG-6 TO 6.5-230414-L-FB	483488-010	04/14/23 08:20	Wipe
ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-P-LA	483488-011	04/14/23 08:10	Wipe
ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-L-LA	483488-012	04/14/23 08:10	Wipe
ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-P-LA	483488-013	04/14/23 08:30	Wipe
ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-L-LA	483488-014	04/14/23 08:30	Wipe
ARCH-C5E-PS-6.5-230414-P-G	483488-015	04/14/23 08:40	Wipe
ARCH-C5E-PS-6.5-230414-L-G	483488-016	04/14/23 08:40	Wipe
ARCH-C3E-PS-6.5-230414-P-G	483488-017	04/14/23 08:00	Wipe
ARCH-C3E-PS-6.5-230414-L-G	483488-018	04/14/23 08:00	Wipe

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	483488
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	04/17/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-P-LA	483488-019	04/14/23 08:05	Wipe
ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-P-DUP-LA	483488-020	04/14/23 08:05	Wipe
ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-L-LA	483488-021	04/14/23 08:05	Wipe
ARCH-C4E-DG-7 TO 7.5-230414-P-FB	483488-022	04/14/23 08:20	Wipe
ARCH-C4E-DG-7 TO 7.5-230414-L-FB	483488-023	04/14/23 08:20	Wipe
ARCH-C3E-EXT-7 TO 8-230414-P-WF	483488-024	04/14/23 08:30	Wipe
ARCH-C3E-EXT-7 TO 8-230414-L-WF	483488-025	04/14/23 08:30	Wipe
ARCH-C3E-EXT-7 TO 8-230414-L-DUP-WF	483488-026	04/14/23 08:30	Wipe
ARCH-C5E-EXT-8 TO 9-230414-P-WF	483488-027	04/14/23 08:50	Wipe
ARCH-C5E-EXT-8 TO 9-230414-L-WF	483488-028	04/14/23 08:50	Wipe
ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230414-P-LA	483488-029	04/14/23 09:20	Wipe
ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230414-L-LA	483488-030	04/14/23 09:20	Wipe

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Austin Moore	Lab Job Number: 483488 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 04/17/23

This data package contains sample and QC results for thirty wipe samples, requested for the above referenced project on 04/18/23. The samples were received cold and intact.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

483488

ENTHALPY ANALYTICAL

Chain of Custody Record COC ID:

Page: 1 of 23

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott + M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
1	ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-P-LA	4/14/2023	0711	WP	1	--	X		
2	ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-L-LA	4/14/2023	0711	WP	1	--		X	
3	ARCH-C4E-PS-5.5-230414-P-G	4/14/2023	0745	WP	1	--	X		
4	ARCH-C4E-PS-5.5-230414-L-G	4/14/2023	0745	WP	1	--		X	
5	ARCH-C3E-PS-5.5-230414-P-G	4/14/2023	0725	WP	1	--	X		
6	ARCH-C3E-PS-5.5-230414-L-G	4/14/2023	0725	WP	1	--		X	
7	ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-P-LA	4/14/2023	0800	WP	1	--	X		
8	ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-L-LA	4/14/2023	0800	WP	1	--		X	
9	ARCH-C5E-DG-6 TO 6.5-230414-P-FB	4/14/2023	0820	WP	1	--	X		
10	ARCH-C5E-DG-6 TO 6.5-230414-L-FB	4/14/2023	0820	WP	1	--		X	
11	ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-P-LA	4/14/2023	0810	WP	1	--	X		
12	ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-L-LA	4/14/2023	0810	WP	1	--		X	
13	ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-P-LA	4/14/2023	0830	WP	1	--	X		
14	ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-L-LA	4/14/2023	0830	WP	1	--		X	
15	ARCH-C5E-PS-6.5-230414-P-G	4/14/2023	0840	WP	1	--	X		

Analysis Request

Test Instructions / Comments

Confirmation Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm2 basis

Report lead concentrations on a µg/ft2 basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

10x Rivet Type 1 = 0.1380ft2

2x Rivet Type 2 = 0.0200ft2

4x Rivet Type 2 = 0.0400ft2

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	TSinnott	Tyler Sinnott	Rincon / Envi. Scientist	4/17/23 / 14:00
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY "	4/17/23 14:00
2 Relinquished By:	Audrey Hudson	"	"	4/17/23 17:08
2 Received By:		Mia Cunill Ortiz	EA	4/17/23 17:08
3 Relinquished By:			EA	4/17/23 18:38
3 Received By:				4/18 mon 09:40

483480

ENTHALPY ANALYTICAL

Chain of Custody Record — COC ID:

Page: 2 of 23

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott + M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B								HOLD	Test Instructions / Comments
16	ARCH-C5E-PS-6.5-230414-L-G	4/14/2023	0840	WP	1	--		X									10x Rivet Type 1 = 0.13842
17	ARCH-C3E-PS-6.5-230414-P-G	4/14/2023	0800	WP	1	--	X										
18	ARCH-C3E-PS-6.5-230414-L-G	4/14/2023	0800	WP	1	--		X									
19	ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-P-LA	4/14/2023	0805	WP	1	--	X										
20	ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-P-DUP-LA	4/14/2023	0805	WP	1	--	X										
21	ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-L-LA	4/14/2023	0805	WP	1	--		X									
22	ARCH-C4E-DG-7 TO 7.5-230414-P-FB	4/14/2023	0820	WP	1	--	X										
23	ARCH-C4E-DG-7 TO 7.5-230414-L-FB	4/14/2023	0820	WP	1	--		X									
24	ARCH-C3E-EXT-7 TO 8-230414-P-WF	4/14/2023	0830	WP	1	--	X										
25	ARCH-C3E-EXT-7 TO 8-230414-L-WF	4/14/2023	0830	WP	1	--		X									
26	ARCH-C3E-EXT-7 TO 8-230414-L-DUP-WF	4/14/2023	0830	WP	1	--		X									
27	ARCH-C5E-EXT-8 TO 9-230414-P- WF	4/14/2023	0850	WP	1	--	X										
28	ARCH-C5E-EXT-8 TO 9-230414-L- WF	4/14/2023	0850	WP	1	--		X									
29	~~ARCH-C5E-DG-8 TO 9-UP-C5.1-HS-230414-P-~~	~~4/14/2023~~		~~WP~~	~~1~~	~~--~~	X										TS
30	~~ARCH-C5E-DG-8 TO 9-UP-C5.1-HS-230414-L-~~	~~4/14/2023~~		~~WP~~	~~1~~	~~--~~		X									TS

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	TS	Tyler Sinnott	Rincon / Envi. Scientist	4/17/23 / 14:00
[1] Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	4/17/23 14:00
[2] Relinquished By:	Audrey Hudson			4/17/23 17:08
[2] Received By:		[illegible] Yi	BA	4/17/23 17:08
[3] Relinquished By:			RA	4/17/23 18:38
[3] Received By:				4/18/2023 09:10

483488

ENTHALPY ANALYTICAL

Chain of Custody Record — COC ID: — Page: 3 of 3

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott + Mkim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
31	ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230414-P-LA	4/14/2023	0920	WP	1	--	X			Confirmation Wipe Samples - Level II Report/Stage 2A Validation Report PCB concentrations on a µg/100cm2 basis Report lead concentrations on a µg/ft2 basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)
32	ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230414-L-LA	4/14/2023	0920	WP	1	--		X		2x Rivet Type 2 = 0.0200 ft^2
33										
34										
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	TSinnott	Tyler Sinnott	Rincon / Envi. Scientist	4/17/23 14:00
[1] Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	4/17/23 14:00
[2] Relinquished By:	Audrey Hudson			4/17/23 17:08
[2] Received By:		[illegible]	FEDEX	4/17/23 17:08
[3] Relinquished By:		Lisa Fay	FEDEX	4/17/23 18:23
[3] Received By:		[illegible]	[illegible]	4/18/2023 09:40 am

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 483488 Client: Rincon

Date Received: 4-17 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☐ Yes, how many? _____ ☐ No (skip Section 3 below)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/17 By (print) JH (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☐ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: 1.0, #2: 1.5, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			—
Did you change the hold time in LIMS for preserved terracores?			—
Are bubbles > 6mm present in VOA samples?			—
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (If N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 4/17/23 **By (print)** LEF for MY **(sign)** _____

Date Labeled 4/17/23 **By (print)** LEF for JH **(sign)** _____

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 4/18/2023 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 5.1 #2: - #3: - #4: -

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.6 #2: - #3: - #4: -

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

(483488)

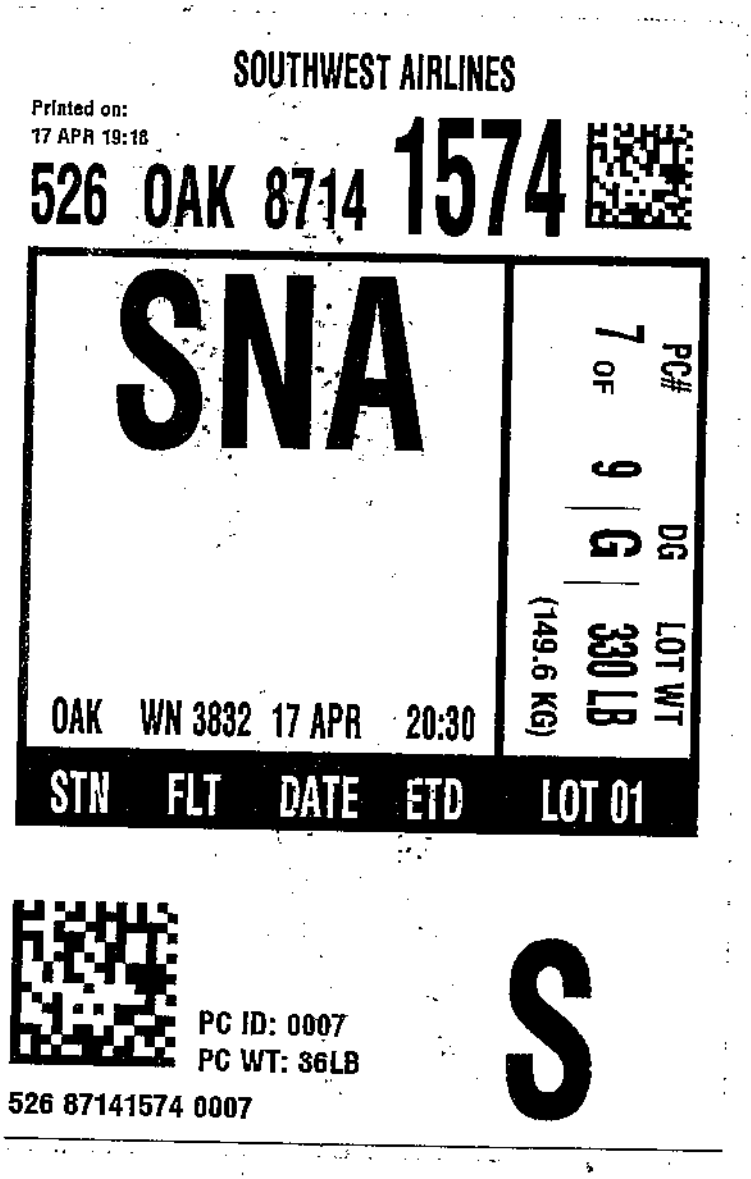
Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: _____


SOUTHWEST AIRLINES
Printed on:
17 APR 19:18
526 OAK 8714 1574
SNA
PC# 7 OF 9
DG G
LOT WT 330 LB (149.6 KG)
OAK WN 3832 17 APR 20:30
STN FLT DATE ETD LOT 01
PC ID: 0007
PC WT: 36LB
526 87141574 0007
S

2.6 / 5.1

Enthalpy Analytical - Orange Analytical Report

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-P-LA **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-001 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

DiIn Fac: 1.000 **Analyzed:** 04/19/23

483488-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-001 Surrogate	%REC	Limits
TCMX (PCB)	58	19-121
Decachlorobiphenyl (PCB)	50	19-121

Field ID: ARCH-C4E-PS-5.5-230414-P-G **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-003 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

DiIn Fac: 1.000 **Analyzed:** 04/19/23

483488-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-003 Surrogate	%REC	Limits
TCMX (PCB)	53	19-121
Decachlorobiphenyl (PCB)	44	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-PS-5.5-230414-P-G **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-005 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Diln Fac: 1.000 **Analyzed:** 04/19/23

483488-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-005 Surrogate	%REC	Limits
TCMX (PCB)	52	19-121
Decachlorobiphenyl (PCB)	44	19-121

Field ID: ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-P-LA **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-007 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Diln Fac: 1.000 **Analyzed:** 04/19/23

483488-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-007 Surrogate	%REC	Limits
TCMX (PCB)	57	19-121
Decachlorobiphenyl (PCB)	48	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-6 TO 6.5-230414-P-FB **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-009 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Dil n Fac: 1.000 **Analyzed:** 04/19/23

483488-009 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-009 Surrogate	%REC	Limits
TCMX (PCB)	62	19-121
Decachlorobiphenyl (PCB)	51	19-121

Field ID: ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-P-LA **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-011 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Dil n Fac: 1.000 **Analyzed:** 04/19/23

483488-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-011 Surrogate	%REC	Limits
TCMX (PCB)	57	19-121
Decachlorobiphenyl (PCB)	47	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-P-LA **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-013 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Diln Fac: 1.000 **Analyzed:** 04/19/23

483488-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-013 Surrogate	%REC	Limits
TCMX (PCB)	61	19-121
Decachlorobiphenyl (PCB)	49	19-121

Field ID: ARCH-C5E-PS-6.5-230414-P-G **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-015 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Diln Fac: 1.000 **Analyzed:** 04/19/23

483488-015 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-015 Surrogate	%REC	Limits
TCMX (PCB)	61	19-121
Decachlorobiphenyl (PCB)	50	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-PS-6.5-230414-P-G **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-017 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Diln Fac: 1.000 **Analyzed:** 04/19/23

483488-017 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-017 Surrogate	%REC	Limits
TCMX (PCB)	62	19-121
Decachlorobiphenyl (PCB)	50	19-121

Field ID: ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-P-LA **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-019 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Diln Fac: 1.000 **Analyzed:** 04/19/23

483488-019 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-019 Surrogate	%REC	Limits
TCMX (PCB)	61	19-121
Decachlorobiphenyl (PCB)	49	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-P-DUP-LA **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-020 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Diln Fac: 1.000 **Analyzed:** 04/19/23

483488-020 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-020 Surrogate	%REC	Limits
TCMX (PCB)	58	19-121
Decachlorobiphenyl (PCB)	46	19-121

Field ID: ARCH-C4E-DG-7 TO 7.5-230414-P-FB **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-022 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Diln Fac: 1.000 **Analyzed:** 04/19/23

483488-022 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-022 Surrogate	%REC	Limits
TCMX (PCB)	67	19-121
Decachlorobiphenyl (PCB)	54	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-EXT-7 TO 8-230414-P-WF **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-024 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Dil n Fac: 1.000 **Analyzed:** 04/19/23

483488-024 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-024 Surrogate	%REC	Limits
TCMX (PCB)	63	19-121
Decachlorobiphenyl (PCB)	49	19-121

Field ID: ARCH-C5E-EXT-8 TO 9-230414-P-WF **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-027 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Dil n Fac: 1.000 **Analyzed:** 04/19/23

483488-027 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-027 Surrogate	%REC	Limits
TCMX (PCB)	61	19-121
Decachlorobiphenyl (PCB)	47	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230414-P-LA **Batch#:** 312060 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 8082

Lab ID: 483488-029 **Received:** 04/17/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/19/23

Diln Fac: 1.000 **Analyzed:** 04/19/23

483488-029 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483488-029 Surrogate	%REC	Limits
TCMX (PCB)	59	19-121
Decachlorobiphenyl (PCB)	47	19-121

Type: BLANK **Batch#:** 312060 **Analysis:** EPA 8082

Lab ID: QC1059508 **Prepared:** 04/19/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 04/19/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1059508 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1059508 Surrogate	%REC	Limits
TCMX (PCB)	53	19-121
Decachlorobiphenyl (PCB)	50	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 312060 **Analysis:** EPA 8082

Lab ID: QC1059509 **Prepared:** 04/19/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 04/19/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1059509 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.773	75	60-140	ug/100 cm2
Aroclor-1260	5.000	3.554	71	60-140	ug/100 cm2

QC1059509 Surrogate	%REC	Limits
TCMX (PCB)	71	19-121
Decachlorobiphenyl (PCB)	64	19-121

Type: BSD **Batch#:** 312060 **Analysis:** EPA 8082

Lab ID: QC1059510 **Prepared:** 04/19/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 04/19/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1059510 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.733	75	60-140	ug/100 cm2	1	20
Aroclor-1260	5.000	3.620	72	60-140	ug/100 cm2	2	20

QC1059510 Surrogate	%REC	Limits
TCMX (PCB)	67	19-121
Decachlorobiphenyl (PCB)	66	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-L-LA **Batch#:** 311981 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-002 **Received:** 04/17/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 04/18/23
Diln Fac: 1.000 **Analyzed:** 04/18/23

483488-002 Analyte	Result	RL	Units
Lead	**35**	0.25	ug/ft2

Field ID: ARCH-C4E-PS-5.5-230414-L-G **Batch#:** 311981 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-004 **Received:** 04/17/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 04/18/23
Diln Fac: 1.000 **Analyzed:** 04/18/23

483488-004 Analyte	Result	RL	Units
Lead	**12**	0.22	ug/ft2

Field ID: ARCH-C3E-PS-5.5-230414-L-G **Batch#:** 311981 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-006 **Received:** 04/17/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 04/18/23
Diln Fac: 1.000 **Analyzed:** 04/18/23

483488-006 Analyte	Result	RL	Units
Lead	**16**	0.25	ug/ft2

Field ID: ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-L-LA **Batch#:** 311981 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-008 **Received:** 04/17/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 04/18/23
Diln Fac: 1.000 **Analyzed:** 04/18/23

483488-008 Analyte	Result	RL	Units
Lead	**56**	0.25	ug/ft2

Field ID: ARCH-C5E-DG-6 TO 6.5-230414-L-FB **Batch#:** 311981 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-010 **Received:** 04/17/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 04/18/23
Diln Fac: 1.000 **Analyzed:** 04/18/23

483488-010 Analyte	Result	RL	Units
Lead	**8.5**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-L-LA **Batch#:** 311981 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-012 **Received:** 04/17/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 04/18/23
Dln Fac: 1.000 **Analyzed:** 04/18/23

483488-012 Analyte	Result	RL	Units
Lead	**25**	0.25	ug/ft2

Field ID: ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-L-LA **Batch#:** 311981 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-014 **Received:** 04/17/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 04/18/23
Dln Fac: 1.000 **Analyzed:** 04/18/23

483488-014 Analyte	Result	RL	Units
Lead	**15**	0.24	ug/ft2

Field ID: ARCH-C5E-PS-6.5-230414-L-G **Batch#:** 311981 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-016 **Received:** 04/17/23 **Analyst:** THP
Matrix: Wipe **Prepared:** 04/18/23
Dln Fac: 1.000 **Analyzed:** 04/18/23

483488-016 Analyte	Result	RL	Units
Lead	**10**	0.22	ug/ft2

Field ID: ARCH-C3E-PS-6.5-230414-L-G **Batch#:** 311982 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-018 **Received:** 04/17/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/18/23
Dln Fac: 1.000 **Analyzed:** 04/18/23

483488-018 Analyte	Result	RL	Units
Lead	**69**	0.25	ug/ft2

Field ID: ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-L-LA **Batch#:** 311982 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-021 **Received:** 04/17/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/18/23
Dln Fac: 1.000 **Analyzed:** 04/18/23

483488-021 Analyte	Result	RL	Units
Lead	**140**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C4E-DG-7 TO 7.5-230414-L-FB **Batch#:** 311982 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-023 **Received:** 04/17/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/18/23
Dil n Fac: 1.000 **Analyzed:** 04/18/23

483488-023 Analyte	Result	RL	Units
Lead	**74**	0.25	ug/ft2

Field ID: ARCH-C3E-EXT-7 TO 8-230414-L-WF **Batch#:** 311982 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-025 **Received:** 04/17/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/18/23
Dil n Fac: 1.000 **Analyzed:** 04/18/23

483488-025 Analyte	Result	RL	Units
Lead	**220**	0.25	ug/ft2

Field ID: ARCH-C3E-EXT-7 TO 8-230414-L-DUP-WF **Batch#:** 311982 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-026 **Received:** 04/17/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/18/23
Dil n Fac: 1.000 **Analyzed:** 04/18/23

483488-026 Analyte	Result	RL	Units
Lead	**210**	0.25	ug/ft2

Field ID: ARCH-C5E-EXT-8 TO 9-230414-L-WF **Batch#:** 311982 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-028 **Received:** 04/17/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/18/23
Dil n Fac: 1.000 **Analyzed:** 04/18/23

483488-028 Analyte	Result	RL	Units
Lead	**74**	0.25	ug/ft2

Field ID: ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230414-L-LA **Batch#:** 311982 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/14/23 **Analysis:** EPA 6010B
Lab ID: 483488-030 **Received:** 04/17/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/18/23
Dil n Fac: 1.000 **Analyzed:** 04/18/23

483488-030 Analyte	Result	RL	Units
Lead	**150**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type:	BLANK	**Batch#:**	311981	**Analysis:**	EPA 6010B
Lab ID:	QC1059304	**Prepared:**	04/18/23	**Analyst:**	THP
Matrix:	Wipe	**Analyzed:**	04/18/23		
Dil n Fac:	1.000	**Prep:**	EPA 3050B		

QC1059304 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Type:	BLANK	**Batch#:**	311982	**Analysis:**	EPA 6010B
Lab ID:	QC1059307	**Prepared:**	04/18/23	**Analyst:**	SBW
Matrix:	Wipe	**Analyzed:**	04/18/23		
Dil n Fac:	1.000	**Prep:**	EPA 3050B		

QC1059307 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 483488 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 311981 **Analysis:** EPA 6010B
Lab ID: QC1059305 **Prepared:** 04/18/23 **Analyst:** THP
Matrix: Wipe **Analyzed:** 04/18/23
Dil n Fac: 1.000 **Prep:** EPA 3050B

QC1059305 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	58.02	116	80-120	ug/ft2

Type: BS **Batch#:** 311982 **Analysis:** EPA 6010B
Lab ID: QC1059308 **Prepared:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 04/18/23
Dil n Fac: 1.000 **Prep:** EPA 3050B

QC1059308 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	54.84	110	80-120	ug/ft2

Type: BSD **Batch#:** 311981 **Analysis:** EPA 6010B
Lab ID: QC1059306 **Prepared:** 04/18/23 **Analyst:** THP
Matrix: Wipe **Analyzed:** 04/18/23
Dil n Fac: 1.000 **Prep:** EPA 3050B

QC1059306 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	56.54	113	80-120	ug/ft2	3	20

Type: BSD **Batch#:** 311982 **Analysis:** EPA 6010B
Lab ID: QC1059309 **Prepared:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 04/18/23
Dil n Fac: 1.000 **Prep:** EPA 3050B

QC1059309 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	56.50	113	80-120	ug/ft2	3	20

Legend

RPD: Relative Percent Difference

Enthalpy Analytical
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enthalpy.com

Lab Job Number: 474713
Report Level: IV
Report Date: 12/16/2022

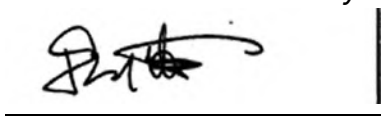
PCBs

Analytical Report *prepared for:*

Lindsay Parker
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449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



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CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	474713
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	12/09/22

Sample ID	Lab ID	Collected	Matrix
ARCH-C5W-EXT-1 TO 2-221209-P-WF	474713-001	12/09/22 12:30	Wipe
ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-P-LA	474713-002	12/09/22 12:45	Wipe
ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-P-LA	474713-003	12/09/22 13:10	Wipe
ARCH-C5W-INT-4.5 TO 5.5-221209-P-WF	474713-004	12/09/22 13:50	Wipe
ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-P-LA	474713-005	12/09/22 13:30	Wipe

Case Narrative

PCBS (EPA 8082)

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 474713 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 12/09/22

This data package contains sample and QC results for five wipe samples, requested for the above referenced project on 12/12/22. See attached cooler receipt form for any sample receipt problems or discrepancies.

PCBs (EPA 8082):

No analytical problems were encountered.

Chain of Custody

477473

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	~~X (PCBs)~~ MK	5 Day:		3 Day:	
2 Day:		1 Day:	X	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level IV

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	

Test Instructions / Comments

Confirmation Wipe Samples - Level IV Report/Stage 3 Validation

Report PCB concentrations on a µg/100cm² basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure C/D

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 3546/8082	HOLD
1	ARCH-C5W-EXT-1 TO 2-221209-P- WF	12/9/2022	1230	WP	1		X	
2	ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-P- LA	12/9/2022	1245	WP	1		X	
3	ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-P- LA	12/9/2022	1310	WP	1		X	
~~4~~	~~ARCH-C3W-DG-4 TO 4.5-221209-P-~~	~~12/9/2022~~		WP	1		X	
5	ARCH-C5W-INT-4.5 TO 5.5-221209-P- WF	12/9/2022	1350	WP	1		X	
6	ARCH-C2W-DG-4TO4.5-UP-	12/9/22	1330	WP	1		X	
7	C2.7-DG-221209-P-LA							
8								
9								
10								
11								
12								
13								
14								
15								

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michaela Kim	Rincon/Env Scientist	12/9/22 @ 1530
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	12/9/22 @ 15:30
2 Relinquished By:	Audrey Hudson	"	"	12/9/22 16:50
2 Received By:		[illegible]	FD	12/9/22 16:50
3 Relinquished By:		Lisa Pay	EA	12/9/22 17:24
3 Received By:		Elizabeth Ramos	EA - Orange	12/10/22 8:05

Cooler #8 5.6/2.2

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 474713 Client: Rincon

Date Received: 12.9.22 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 12.9.22 By (print) Jak Peterson (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 12/9/22 **By (print)** USF for MP **(sign)** _____

Date Labeled 12/9/22 **By (print)** USF for JP **(sign)** _____

Enthalpy Analytical - Berkeley Rev.15.1, 09/13/2019

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 -NCTRA WP

Date Received: 12/10/22 Sampler's Name Present: ☐ Yes ☑ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 5.6 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: TPX

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☑ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.2 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?		✔	
If custody seals are present, were they intact?			✔
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✔		
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 12/10/22

Results & QC Summary

Enthalpy Analytical - Orange Analytical Report

Lab #: 474713 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-EXT-1 TO 2-221209-P-WF **Batch#:** 303182 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/09/22 **Analysis:** EPA 8082

Lab ID: 474713-001 **Received:** 12/09/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/14/22

Diln Fac: 1.000 **Analyzed:** 12/15/22

474713-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

474713-001 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	74	19-121

Field ID: ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-P-LA **Batch#:** 303182 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/09/22 **Analysis:** EPA 8082

Lab ID: 474713-002 **Received:** 12/09/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/14/22

Diln Fac: 1.000 **Analyzed:** 12/15/22

474713-002 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

474713-002 Surrogate	%REC	Limits
TCMX (PCB)	59	19-121
Decachlorobiphenyl (PCB)	53	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 474713 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-P-LA **Batch#:** 303182 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/09/22 **Analysis:** EPA 8082

Lab ID: 474713-003 **Received:** 12/09/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/14/22

Diln Fac: 1.000 **Analyzed:** 12/15/22

474713-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

474713-003 Surrogate	%REC	Limits
TCMX (PCB)	58	19-121
Decachlorobiphenyl (PCB)	62	19-121

Field ID: ARCH-C5W-INT-4.5 TO 5.5-221209-P-WF **Batch#:** 303182 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/09/22 **Analysis:** EPA 8082

Lab ID: 474713-004 **Received:** 12/09/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/14/22

Diln Fac: 1.000 **Analyzed:** 12/15/22

474713-004 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

474713-004 Surrogate	%REC	Limits
TCMX (PCB)	51	19-121
Decachlorobiphenyl (PCB)	52	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 474713 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-P-LA **Batch#:** 303182 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/09/22 **Analysis:** EPA 8082

Lab ID: 474713-005 **Received:** 12/09/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/14/22

Diln Fac: 1.000 **Analyzed:** 12/15/22

474713-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

474713-005 Surrogate	%REC	Limits
TCMX (PCB)	69	19-121
Decachlorobiphenyl (PCB)	70	19-121

Type: BLANK **Batch#:** 303182 **Analysis:** EPA 8082

Lab ID: QC1031899 **Prepared:** 12/14/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/15/22

Diln Fac: 1.000 **Prep:** EPA 3546

QC1031899 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1031899 Surrogate	%REC	Limits
TCMX (PCB)	81	19-121
Decachlorobiphenyl (PCB)	68	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 474713 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 303182 **Analysis:** EPA 8082

Lab ID: QC1031900 **Prepared:** 12/14/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/15/22

Diln Fac: 1.000 **Prep:** EPA 3546

QC1031900 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.910	78	60-140	ug/100 cm2
Aroclor-1260	5.000	3.780	76	60-140	ug/100 cm2

QC1031900 Surrogate	%REC	Limits
TCMX (PCB)	74	19-121
Decachlorobiphenyl (PCB)	63	19-121

Type: BSD **Batch#:** 303182 **Analysis:** EPA 8082

Lab ID: QC1031901 **Prepared:** 12/14/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/15/22

Diln Fac: 1.000 **Prep:** EPA 3546

QC1031901 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	4.672	93	60-140	ug/100 cm2	18	20
Aroclor-1260	5.000	4.468	89	60-140	ug/100 cm2	17	20

QC1031901 Surrogate	%REC	Limits
TCMX (PCB)	91	19-121
Decachlorobiphenyl (PCB)	79	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY INITIAL CALIBRATION FOR 474713 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_102422014	452428510014		24-OCT-2022 17:26	S17263
L2	gc06_102422015	452428510015		24-OCT-2022 17:44	S17264
L3	gc06_102422016	452428510016		24-OCT-2022 18:02	S17265
L4	gc06_102422017	452428510017		24-OCT-2022 18:20	S17266
L5	gc06_102422018	452428510018		24-OCT-2022 18:38	S17267
L6	gc06_102422019	452428510019		24-OCT-2022 18:55	S17268
L7	gc06_102422020	452428510020		24-OCT-2022 19:13	S17269
L8	gc06_102422021	452428510021		24-OCT-2022 19:31	S17270
L9	gc06_102422022	452428510022		24-OCT-2022 19:49	S17271

Analyte	Ch	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG		47.6898		0.0210		15	9	.99	20	
Aroclor-1016 Peak # 2	A	LINR	-15.389	23.9841		0.0490	0.997		7	.99	20	
Aroclor-1016 Peak # 3	A	AVRG		18.8095		0.0532		15	9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG		24.7311		0.0404		14	9	.99	20	
Aroclor-1016 Peak # 5	A	AVRG		30.7045		0.0326		15	9	.99	20	
Aroclor-1260 Peak # 1	A	AVRG		14.7882		0.0676		18	8	.99	20	
Aroclor-1260 Peak # 2	A	AVRG		9.70243		0.1031		17	8	.99	20	
Aroclor-1260 Peak # 3	A	AVRG		9.28268		0.1077		17	8	.99	20	
Aroclor-1260 Peak # 4	A	LINR	-15.439	17.5746		0.0643	0.998		7	.99	20	
Aroclor-1260 Peak # 5	A	LINR	-18.106	8.33830		0.1368	0.999		8	.99	20	
Decachlorobiphenyl (PCB)	A	LINR	-4.3231	0.82496		1.4080	0.999		6	.99	20	
TCMX (PCB)	A	AVRG		1.03996		0.9616		13	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG		48.1076		0.0208		13	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG		33.3260		0.0300		14	9	.99	20	
Aroclor-1016 Peak # 3	B	AVRG		18.3412		0.0545		16	9	.99	20	
Aroclor-1016 Peak # 4	B	AVRG		25.6912		0.0389		12	9	.99	20	
Aroclor-1016 Peak # 5	B	AVRG		31.6065		0.0316		13	9	.99	20	
Aroclor-1260 Peak # 1	B	AVRG		16.8009		0.0595		14	8	.99	20	
Aroclor-1260 Peak # 2	B	AVRG		13.9830		0.0715		15	8	.99	20	
Aroclor-1260 Peak # 3	B	AVRG		11.0470		0.0905		16	8	.99	20	
Aroclor-1260 Peak # 4	B	LINR	-23.653	20.1271		0.0597	0.996		7	.99	20	
Aroclor-1260 Peak # 5	B	LINR	-18.665	13.2930		0.0873	0.999		8	.99	20	
Decachlorobiphenyl (PCB)	B	LINR	-2.1138	0.98301		1.2084	0.999		8	.99	20	
TCMX (PCB)	B	AVRG		1.04112		0.9605		10	9	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)
AVRG: Average response factor
LINR: Linear regression

ENTHALPY INITIAL CALIBRATION FOR 474713 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF
Aroclor-1016 Peak # 1	A	0.0275	0.0229	0.0229	0.0213	0.0183	0.0203	0.0197	0.0189	0.0170
Aroclor-1016 Peak # 2	A	0.0705	0.0493	0.0498	0.0471	0.0402	0.0443	0.0419		
Aroclor-1016 Peak # 3	A	0.0694	0.0572	0.0577	0.0553	0.0469	0.0521	0.0499	0.0477	0.0422
Aroclor-1016 Peak # 4	A	0.0506	0.0443	0.0443	0.0420	0.0361	0.0399	0.0381	0.0367	0.0320
Aroclor-1016 Peak # 5	A	0.0417	0.0355	0.0355	0.0335	0.0292	0.0321	0.0306	0.0296	0.0253
Aroclor-1260 Peak # 1	A	0.0937	0.0726	0.0712	0.0675	0.0578	0.0620	0.0600	0.0564	
Aroclor-1260 Peak # 2	A	0.1377	0.1100	0.1119	0.1048	0.0901	0.0941	0.0896	0.0864	
Aroclor-1260 Peak # 3	A	0.1494	0.1089	0.1140	0.1083	0.0928	0.0997	0.0955	0.0931	
Aroclor-1260 Peak # 4	A	0.0776	0.0657	0.0680	0.0657	0.0561	0.0598	0.0571		
Aroclor-1260 Peak # 5	A	0.1719	0.1443	0.1523	0.1392	0.1178	0.1263	0.1212	0.1213	
Decachlorobiphenyl (PCB)	A			1.7517	1.5276	1.3136	1.3325	1.2692	1.2537	
TCMX (PCB)	A	1.2724	0.9655	0.9830	0.9621	0.8303	0.9420	0.9219	0.9218	0.8552
Aroclor-1016 Peak # 1	B	0.0258	0.0224	0.0221	0.0217	0.0189	0.0208	0.0199	0.0188	0.0168
Aroclor-1016 Peak # 2	B	0.0369	0.0328	0.0337	0.0319	0.0262	0.0293	0.0282	0.0270	0.0241
Aroclor-1016 Peak # 3	B	0.0731	0.0591	0.0595	0.0548	0.0476	0.0526	0.0506	0.0504	0.0429
Aroclor-1016 Peak # 4	B	0.0470	0.0426	0.0424	0.0410	0.0348	0.0383	0.0370	0.0362	0.0311
Aroclor-1016 Peak # 5	B	0.0389	0.0336	0.0345	0.0334	0.0285	0.0314	0.0302	0.0296	0.0248
Aroclor-1260 Peak # 1	B	0.0741	0.0638	0.0673	0.0608	0.0510	0.0551	0.0527	0.0514	
Aroclor-1260 Peak # 2	B	0.0910	0.0798	0.0790	0.0726	0.0608	0.0651	0.0625	0.0613	
Aroclor-1260 Peak # 3	B	0.1187	0.0977	0.0986	0.0907	0.0769	0.0826	0.0797	0.0793	
Aroclor-1260 Peak # 4	B	0.0785	0.0629	0.0647	0.0583	0.0503	0.0539	0.0496		
Aroclor-1260 Peak # 5	B	0.1184	0.0925	0.0953	0.0868	0.0743	0.0790	0.0760	0.0762	
Decachlorobiphenyl (PCB)	B	1.6271	1.2663	1.3495	1.2170	1.0610	1.0826	1.0310	1.0324	
TCMX (PCB)	B	1.1603	0.9978	0.9817	0.9671	0.8301	0.9599	0.9328	0.9461	0.8687

ENTHALPY INITIAL CALIBRATION FOR 474713 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A	20.000	**31**	50.000	9	100.00	9	250.00	1	500.00	-13	749.91	-3	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 2	A	20.000	-8	50.000	-12	100.00	4	250.00	7	500.00	-7	749.91	4	1000.0	-1		
Aroclor-1016 Peak # 3	A	20.000	**31**	50.000	8	100.00	9	250.00	4	500.00	-12	749.91	-2	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 4	A	20.000	**25**	50.000	10	100.00	10	250.00	4	500.00	-11	749.91	-1	1000.0	-6	1500.0	-9
Aroclor-1016 Peak # 5	A	20.000	**28**	50.000	9	100.00	9	250.00	3	500.00	-10	749.91	-1	1000.0	-6	1500.0	-9
Aroclor-1260 Peak # 1	A	20.000	**38**	50.000	7	100.00	5	250.00	0	500.00	-15	749.91	-8	1000.0	-11	1500.0	-17
Aroclor-1260 Peak # 2	A	20.000	**34**	50.000	7	100.00	9	250.00	2	500.00	-13	749.91	-9	1000.0	-13	1500.0	-16
Aroclor-1260 Peak # 3	A	20.000	**39**	50.000	1	100.00	6	250.00	1	500.00	-14	749.91	-7	1000.0	-11	1500.0	-14
Aroclor-1260 Peak # 4	A	20.000	**-41**	50.000	-15	100.00	4	250.00	9	500.00	-4	749.91	3	1000.0	-1		
Aroclor-1260 Peak # 5	A	20.000	**-47**	50.000	-16	100.00	9	250.00	9	500.00	-5	749.91	3	1000.0	-1	1500.0	0
Decachlorobiphenyl (PCB)	A					8.0000	-10	20.000	4	40.000	-2	59.993	3	80.000	-1	120.00	0
TCMX (PCB)	A	1.6000	**32**	4.0000	0	8.0000	2	20.000	0	40.000	-14	59.993	-2	80.000	-4	120.00	-4
Aroclor-1016 Peak # 1	B	20.000	**24**	50.000	8	100.00	6	250.00	4	500.00	-9	749.91	0	1000.0	-4	1500.0	-10
Aroclor-1016 Peak # 2	B	20.000	**23**	50.000	9	100.00	12	250.00	6	500.00	-13	749.91	-2	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 3	B	20.000	**34**	50.000	8	100.00	9	250.00	1	500.00	-13	749.91	-4	1000.0	-7	1500.0	-8
Aroclor-1016 Peak # 4	B	20.000	**21**	50.000	9	100.00	9	250.00	5	500.00	-11	749.91	-2	1000.0	-5	1500.0	-7
Aroclor-1016 Peak # 5	B	20.000	**23**	50.000	6	100.00	9	250.00	5	500.00	-10	749.91	-1	1000.0	-5	1500.0	-6
Aroclor-1260 Peak # 1	B	20.000	**24**	50.000	7	100.00	13	250.00	2	500.00	-14	749.91	-7	1000.0	-11	1500.0	-14
Aroclor-1260 Peak # 2	B	20.000	**27**	50.000	12	100.00	11	250.00	2	500.00	-15	749.91	-9	1000.0	-13	1500.0	-14
Aroclor-1260 Peak # 3	B	20.000	**31**	50.000	8	100.00	9	250.00	0	500.00	-15	749.91	-9	1000.0	-12	1500.0	-12
Aroclor-1260 Peak # 4	B	20.000	**-60**	50.000	**-21**	100.00	7	250.00	8	500.00	-4	749.91	5	1000.0	-3		
Aroclor-1260 Peak # 5	B	20.000	**-36**	50.000	-14	100.00	8	250.00	8	500.00	-5	749.91	3	1000.0	-1	1500.0	0
Decachlorobiphenyl (PCB)	B	1.6000	**-72**	4.0000	**-28**	8.0000	6	20.000	9	40.000	-1	59.993	3	80.000	-1	120.00	0
TCMX (PCB)	B	1.6000	**21**	4.0000	4	8.0000	2	20.000	1	40.000	-14	59.993	0	80.000	-3	120.00	-1

ENTHALPY INITIAL CALIBRATION FOR 474713 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L9	%D
Aroclor-1016 Peak # 1	A	2000.0	-19
Aroclor-1016 Peak # 2	A		
Aroclor-1016 Peak # 3	A	2000.0	**-21**
Aroclor-1016 Peak # 4	A	2000.0	**-21**
Aroclor-1016 Peak # 5	A	2000.0	**-22**
Aroclor-1260 Peak # 1	A		
Aroclor-1260 Peak # 2	A		
Aroclor-1260 Peak # 3	A		
Aroclor-1260 Peak # 4	A		
Aroclor-1260 Peak # 5	A		
Decachlorobiphenyl (PCB)	A		
TCMX (PCB)	A	160.00	-11
Aroclor-1016 Peak # 1	B	2000.0	-19
Aroclor-1016 Peak # 2	B	2000.0	-20
Aroclor-1016 Peak # 3	B	2000.0	**-21**
Aroclor-1016 Peak # 4	B	2000.0	-20
Aroclor-1016 Peak # 5	B	2000.0	**-22**
Aroclor-1260 Peak # 1	B		
Aroclor-1260 Peak # 2	B		
Aroclor-1260 Peak # 3	B		
Aroclor-1260 Peak # 4	B		
Aroclor-1260 Peak # 5	B		
Decachlorobiphenyl (PCB)	B		
TCMX (PCB)	B	160.00	-10

TRN 10/26/22 : Manually integrated for coeluting peak/draw baseline on both channel for multiple channels

Analyst: TRN 10/26/22

Reviewer: LW 10/27/22

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 474713 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Name:	PCB_102422_1
Calnum:	452428510002	Cal Date:	24-OCT-2022

- ICV 452428510024 (gc06_102422024 24-OCT-2022) stds: S17274

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	486.9	ug/L	-3	15	
Aroclor-1260	A	500.0	451.5	ug/L	-10	15	
Aroclor-1016	B	500.0	481.3	ug/L	-4	15	
Aroclor-1260	B	500.0	455.3	ug/L	-9	15	

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Analyst: TRN 10/26/22 **Reviewer:** LW 10/27/22

ENTHALPY CONTINUING CALIBRATION FOR 474713 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06			IDF:	1.0
Seqnum:	452501809036	File:	gc06_121422036	Time:	14-DEC-2022 22:46
Cal:	452428510002	Caldate:	24-OCT-2022		

Standards: S17386

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	455.9	ug/L	-9	15	0.0000	
Aroclor-1260	A			500.0	410.5	ug/L	**-18**	15	0.0000	c- ***
Decachlorobiphenyl (PCB)	A	1.4080	1.6604	40.00	50.47	ug/L	**26**	15	0.0000	c+
TCMX (PCB)	A	0.9616	0.9149	40.00	38.06	ug/L	-5	15	0.0000	
Aroclor-1016	B			500.0	454.3	ug/L	-9	15	0.0000	
Aroclor-1260	B			500.0	453.4	ug/L	-9	15	0.0000	
Decachlorobiphenyl (PCB)	B	1.2084	1.2913	40.00	48.66	ug/L	**22**	15	0.0000	c+
TCMX (PCB)	B	0.9605	0.9121	40.00	37.98	ug/L	-5	15	0.0000	

ISTD (ICAL gc06_102422015)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	4414084	5560467	25.97
1-bromo-2-nitrobenzene (PCB)	A	1096423	1170615	6.77

MES 12/15/22 [Aroclor-1016 B]: Separated from coeluting peak for Ch. B.

+=high bias -=low bias c=CCV

Analyst: MES 12/15/22 **Reviewer:** LW 12/15/22

Enthalpy Internal Standard Summary for Sequence 452501809

Date:	12/14/22	Reference:	gc06_102422015
Sequence:	SVOA-GC06 gc06_121422	Analyzed:	10/24/22 17:44

#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		ICAL STD	4414084	1096423
		LOWER LIMIT	2207042	548212
		UPPER LIMIT	8828169	2192847
004	CCV		5307613	1103956
036	CCV		5560467	1170615

Enthalpy Internal Standard Summary for Sequence 452501809

Date:	12/14/22	Reference:	gc06_121422036
Sequence:	SVOA-GC06 gc06_121422	Analyzed:	12/14/22 22:46

#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	5560467	1170615
		LOWER LIMIT	2780233	585307
		UPPER LIMIT	11120933	2341230
041	BLANK	QC1031899	6052909	1261934
042	BS	QC1031900	5715755	1210075
043	BSD	QC1031901	5420568	1156450
044	SAMPLE	474711-001	6371921	1310863
045	SAMPLE	474711-003	5701105	1225491
046	SAMPLE	474711-005	5891478	1263286
047	SAMPLE	474711-007	5882410	1265648
048	SAMPLE	474711-009	5600536	1206934
049	SAMPLE	474711-011	6045118	1202825
050	SAMPLE	474711-013	6237575	1253575
051	SAMPLE	474711-015	5681632	1227329
052	SAMPLE	474711-017	5486215	1197877
053	SAMPLE	474711-019	5492454	1204952
054	SAMPLE	474713-001	5050902	1108615
055	SAMPLE	474713-002	5737261	1255961
056	SAMPLE	474713-003	5233756	1088269
057	SAMPLE	474713-004	5875509	1195568
058	SAMPLE	474713-005	5775454	1159149
059	SAMPLE	474716-005	5628942	1252209
060	SAMPLE	474716-007	5081189	1124191
061	SAMPLE	474716-009	5068241	1129951
062	SAMPLE	474716-011	5497910	1225742
063	SAMPLE	474716-013	5360574	1211417

Enthalpy Internal Standard Summary for Sequence 452501809

Date:	12/14/22	Reference:	gc06_121422036
Sequence:	SVOA-GC06 gc06_121422	Analyzed:	12/14/22 22:46

#	Type	Sample ID	1BR2NITROBZPCB B RT	1BR2NITROBZPCB A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.52	4.28
		LOWER LIMIT	4.32	4.08
		UPPER LIMIT	4.72	4.48
041	BLANK	QC1031899	4.52	4.28
042	BS	QC1031900	4.52	4.28
043	BSD	QC1031901	4.52	4.28
044	SAMPLE	474711-001	4.52	4.28
045	SAMPLE	474711-003	4.52	4.28
046	SAMPLE	474711-005	4.52	4.28
047	SAMPLE	474711-007	4.52	4.28
048	SAMPLE	474711-009	4.52	4.28
049	SAMPLE	474711-011	4.52	4.28
050	SAMPLE	474711-013	4.52	4.28
051	SAMPLE	474711-015	4.52	4.28
052	SAMPLE	474711-017	4.52	4.28
053	SAMPLE	474711-019	4.52	4.28
054	SAMPLE	474713-001	4.52	4.28
055	SAMPLE	474713-002	4.52	4.28
056	SAMPLE	474713-003	4.52	4.28
057	SAMPLE	474713-004	4.52	4.28
058	SAMPLE	474713-005	4.52	4.28
059	SAMPLE	474716-005	4.52	4.28
060	SAMPLE	474716-007	4.52	4.28
061	SAMPLE	474716-009	4.52	4.28
062	SAMPLE	474716-011	4.52	4.28
063	SAMPLE	474716-013	4.52	4.28

Enthalpy Sequence Summary for Sequence 452428510

Instrument: SVOA-GC06 Begun: 10/24/22 13:50

Method: EPA 8081A, EPA 8082

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	gc06_102422002	PEM				10/24/22 13:50	1.0	
003	gc06_102422003	ICAL				10/24/22 14:08	1.0	1
004	gc06_102422004	ICAL				10/24/22 14:26	1.0	2
005	gc06_102422005	ICAL				10/24/22 14:44	1.0	3
006	gc06_102422006	ICAL				10/24/22 15:02	1.0	4
007	gc06_102422007	ICAL				10/24/22 15:20	1.0	5
008	gc06_102422008	ICAL				10/24/22 15:38	1.0	6
009	gc06_102422009	ICAL				10/24/22 15:56	1.0	7
010	gc06_102422010	ICAL				10/24/22 16:14	1.0	8
012	gc06_102422012	ICV				10/24/22 16:50	1.0	9
014	gc06_102422014	ICAL				10/24/22 17:26	1.0	10
015	gc06_102422015	ICAL				10/24/22 17:44	1.0	11
016	gc06_102422016	ICAL				10/24/22 18:02	1.0	12
017	gc06_102422017	ICAL				10/24/22 18:20	1.0	13
018	gc06_102422018	ICAL				10/24/22 18:38	1.0	14
019	gc06_102422019	ICAL				10/24/22 18:55	1.0	15
020	gc06_102422020	ICAL				10/24/22 19:13	1.0	16
021	gc06_102422021	ICAL				10/24/22 19:31	1.0	17
022	gc06_102422022	ICAL				10/24/22 19:49	1.0	18
024	gc06_102422024	ICV				10/24/22 20:25	1.0	19

TRN 10/26/22 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 2 through 24.

Standards Used:

1=S17239 2=S17240 3=S17241 4=S17242 5=S17243 6=S17244 7=S17245 8=S17246 9=S17235 10=S17263 11=S17264 12=S17265 13=S17266 14=S17267 15=S17268 16=S17269 17=S17270 18=S17271 19=S17274

Enthalpy Sequence Summary for Sequence 452501809

Instrument: SVOA-GC06 Begun: 12/14/22 11:29

Method: EPA 8081A, EPA 8082

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
002	gc06_121422002	PEM				12/14/22 11:29	1.0	1	
003	gc06_121422003	CCV				12/14/22 11:47	1.0	2	ac
004	gc06_121422004	CCV				12/14/22 12:05	1.0	3	
012	gc06_121422012	BLANK	QC1031896	Wipe	303181	12/14/22 15:26	1.0	4	
013	gc06_121422013	BS	QC1031897	Wipe	303181	12/14/22 15:44	1.0	4	
014	gc06_121422014	BSD	QC1031898	Wipe	303181	12/14/22 16:03	1.0	4	
015	gc06_121422015	SAMPLE	474711-002	Wipe	303181	12/14/22 16:21	1.0	4	
016	gc06_121422016	SAMPLE	474711-004	Wipe	303181	12/14/22 16:39	1.0	4	
017	gc06_121422017	SAMPLE	474711-006	Wipe	303181	12/14/22 16:58	1.0	4	
018	gc06_121422018	SAMPLE	474711-008	Wipe	303181	12/14/22 17:16	1.0	4	
019	gc06_121422019	SAMPLE	474711-010	Wipe	303181	12/14/22 17:34	1.0	4	
020	gc06_121422020	SAMPLE	474711-012	Wipe	303181	12/14/22 17:53	1.0	4	
021	gc06_121422021	SAMPLE	474711-014	Wipe	303181	12/14/22 18:11	1.0	4	
022	gc06_121422022	SAMPLE	474711-016	Wipe	303181	12/14/22 18:29	1.0	4	
023	gc06_121422023	SAMPLE	474711-018	Wipe	303181	12/14/22 18:47	1.0	4	
024	gc06_121422024	SAMPLE	474711-020	Wipe	303181	12/14/22 19:06	1.0	4	
025	gc06_121422025	SAMPLE	474716-001	Wipe	303181	12/14/22 19:24	1.0	4	
026	gc06_121422026	SAMPLE	474716-002	Wipe	303181	12/14/22 19:42	1.0	4	
027	gc06_121422027	SAMPLE	474716-003	Wipe	303181	12/14/22 20:01	1.0	4	
028	gc06_121422028	SAMPLE	474716-004	Wipe	303181	12/14/22 20:19	1.0	4	
029	gc06_121422029	SAMPLE	474716-006	Wipe	303181	12/14/22 20:37	1.0	4	
030	gc06_121422030	SAMPLE	474716-008	Wipe	303181	12/14/22 20:56	1.0	4	
031	gc06_121422031	SAMPLE	474716-010	Wipe	303181	12/14/22 21:14	1.0	4	
032	gc06_121422032	SAMPLE	474716-012	Wipe	303181	12/14/22 21:32	1.0	4	
033	gc06_121422033	SAMPLE	474716-014	Wipe	303181	12/14/22 21:51	1.0	4	
034	gc06_121422034	SAMPLE	474716-015	Wipe	303181	12/14/22 22:09	1.0	4	
036	gc06_121422036	CCV				12/14/22 22:46	1.0	3	
041	gc06_121422041	BLANK	QC1031899	Wipe	303182	12/15/22 00:18	1.0	4	
042	gc06_121422042	BS	QC1031900	Wipe	303182	12/15/22 00:36	1.0	4	
043	gc06_121422043	BSD	QC1031901	Wipe	303182	12/15/22 00:54	1.0	4	
044	gc06_121422044	SAMPLE	474711-001	Wipe	303182	12/15/22 01:13	1.0	4	
045	gc06_121422045	SAMPLE	474711-003	Wipe	303182	12/15/22 01:31	1.0	4	
046	gc06_121422046	SAMPLE	474711-005	Wipe	303182	12/15/22 01:49	1.0	4	
047	gc06_121422047	SAMPLE	474711-007	Wipe	303182	12/15/22 02:08	1.0	4	
048	gc06_121422048	SAMPLE	474711-009	Wipe	303182	12/15/22 02:26	1.0	4	
049	gc06_121422049	SAMPLE	474711-011	Wipe	303182	12/15/22 02:44	1.0	4	
050	gc06_121422050	SAMPLE	474711-013	Wipe	303182	12/15/22 03:03	1.0	4	
051	gc06_121422051	SAMPLE	474711-015	Wipe	303182	12/15/22 03:21	1.0	4	
052	gc06_121422052	SAMPLE	474711-017	Wipe	303182	12/15/22 03:39	1.0	4	
053	gc06_121422053	SAMPLE	474711-019	Wipe	303182	12/15/22 03:58	1.0	4	
054	gc06_121422054	SAMPLE	474713-001	Wipe	303182	12/15/22 04:16	1.0	4	
055	gc06_121422055	SAMPLE	474713-002	Wipe	303182	12/15/22 04:34	1.0	4	
056	gc06_121422056	SAMPLE	474713-003	Wipe	303182	12/15/22 04:53	1.0	4	
057	gc06_121422057	SAMPLE	474713-004	Wipe	303182	12/15/22 05:11	1.0	4	
058	gc06_121422058	SAMPLE	474713-005	Wipe	303182	12/15/22 05:29	1.0	4	
059	gc06_121422059	SAMPLE	474716-005	Wipe	303182	12/15/22 05:48	1.0	4	
060	gc06_121422060	SAMPLE	474716-007	Wipe	303182	12/15/22 06:06	1.0	4	
061	gc06_121422061	SAMPLE	474716-009	Wipe	303182	12/15/22 06:24	1.0	4	
062	gc06_121422062	SAMPLE	474716-011	Wipe	303182	12/15/22 06:43	1.0	4	
063	gc06_121422063	SAMPLE	474716-013	Wipe	303182	12/15/22 07:01	1.0	4	

Enthalpy Sequence Summary for Sequence 452501809

Instrument:	SVOA-GC06	Begun:	12/14/22 11:29
Method:	EPA 8081A, EPA 8082		

MES 12/15/22 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 2 through 63.

ac=average CCV drift out

Standards Used:
1=S17384 2=S17385 3=S17386 4=S17010

SAMPLE PREPARATION SUMMARY

Batch # : 303182
Started By : EPL
Prep Date : 14-DEC-2022 12:56
Method : 3546
Spike #1 ID : S17708
Spike #2 ID : S17644
Analysis : 8080
Finished By : EPL
Units : dm2

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
474711-001		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474711-003		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474711-005		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474711-007		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474711-009		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474711-011		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474711-013		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474711-015		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474711-017		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474711-019		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474713-001		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474713-002		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474713-003		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474713-004		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474713-005		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474716-005		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474716-007		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474716-009		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
474716-011		Wipe	1.1854	10	1	8.436		.5				PCB-MICROWAVE	
474716-013		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
QC1031899	BLANK	Wipe	1	10	1	10.0		.5				8080	
QC1031900	BS	Wipe	1	10	1	10.0		.5	.5			8080	
QC1031901	BSD	Wipe	1	10	1	10.0		.5	.5			8080	

TRN 12/15/22 : BS/D verify the batch

Analyst: TRN Date: 12/15/22 Reviewer: LW Date: 12/15/22

8081/8082/608.3 Prep Log

Date/Time: 12/14/22 12:56 Initials: EPL

Microdipenser ID: SYRINGE Therm ID/CF: ____/____ Hotblock Temp (°C): N/A

Prep Method: 3546 Matrix: WIPES Balance ID: N/A

608.3 QC Batch#: ____

8081 QC Batch #: ____

8082 QC Batch #: 303182

Sample ID	Cont. ID	Sample Initial Amount Circle one: mL g	pH is 5-9?	Extraction Equipment ID (Sox, Sonic., Shaker)	Turbo Vap ID	Extract, Final Volume (mL)	Date/Time (if diff from above)	Comment
Blank		1 dm²	N/A	Eq#14 SM102 -1	TV09	10.0		
LCS		↓	↓	-2	↓	↓		
LCSD				-3				
474713-001	A			-4				
-002	A			-5				
-003	A			-6	↓			
-004	A			-7	TV08			
-005	A			-8				
474711-001	A			-9				
-003	A			-10				
-005	A			-11				
-007	A			-12	↓			
-009	A			-13	TV09			
-011	A			-14				
-013	A			-15				
-015	A			-16				
-017	A			-17				
-019	A			-18	↓			
474716-005	A			-19	TV07			
-007	A			-20				
-009	A	↓		-21				
-011	A	1.1854		-22				
-013	A	1 dm²	↓	-23	↓	↓		

Methylene Chloride Lot: N/A

Exchange Solvent (Hexane) ID: S17570

Acetone-Hexane Mix ID: ____

Sodium Sulfate Lot: 215528

Baked Sand Lot: N/A

Surrogate ID: S17708 Volume: 500

Pest LCS Spike ID: N/A Volume: N/A

PCB LCS Spike ID: S17644 Volume: 500

Pest MS/MSD Spike ID: N/A Volume: N/A

PCB MS/MSD Spike ID: N/A Volume: N/A

REPORTING SUMMARY FOR 474713 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
474713-001	Aroclor-1016	SVOA-GC06	B	12/15/22 04:16
474713-001	Aroclor-1221	SVOA-GC06	B	12/15/22 04:16
474713-001	Aroclor-1232	SVOA-GC06	B	12/15/22 04:16
474713-001	Aroclor-1242	SVOA-GC06	B	12/15/22 04:16
474713-001	Aroclor-1248	SVOA-GC06	B	12/15/22 04:16
474713-001	Aroclor-1254	SVOA-GC06	B	12/15/22 04:16
474713-001	Aroclor-1260	SVOA-GC06	B	12/15/22 04:16
474713-001	Aroclor-1262	SVOA-GC06	B	12/15/22 04:16
474713-001	Aroclor-1268	SVOA-GC06	B	12/15/22 04:16
474713-001	TCMX (PCB)	SVOA-GC06	B	12/15/22 04:16
474713-001	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/15/22 04:16
474713-002	Aroclor-1016	SVOA-GC06	B	12/15/22 04:34
474713-002	Aroclor-1221	SVOA-GC06	B	12/15/22 04:34
474713-002	Aroclor-1232	SVOA-GC06	B	12/15/22 04:34
474713-002	Aroclor-1242	SVOA-GC06	B	12/15/22 04:34
474713-002	Aroclor-1248	SVOA-GC06	B	12/15/22 04:34
474713-002	Aroclor-1254	SVOA-GC06	B	12/15/22 04:34
474713-002	Aroclor-1260	SVOA-GC06	B	12/15/22 04:34
474713-002	Aroclor-1262	SVOA-GC06	B	12/15/22 04:34
474713-002	Aroclor-1268	SVOA-GC06	B	12/15/22 04:34
474713-002	TCMX (PCB)	SVOA-GC06	B	12/15/22 04:34
474713-002	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/15/22 04:34
474713-003	Aroclor-1016	SVOA-GC06	B	12/15/22 04:53
474713-003	Aroclor-1221	SVOA-GC06	B	12/15/22 04:53
474713-003	Aroclor-1232	SVOA-GC06	B	12/15/22 04:53
474713-003	Aroclor-1242	SVOA-GC06	B	12/15/22 04:53
474713-003	Aroclor-1248	SVOA-GC06	B	12/15/22 04:53
474713-003	Aroclor-1254	SVOA-GC06	B	12/15/22 04:53
474713-003	Aroclor-1260	SVOA-GC06	B	12/15/22 04:53
474713-003	Aroclor-1262	SVOA-GC06	B	12/15/22 04:53
474713-003	Aroclor-1268	SVOA-GC06	B	12/15/22 04:53
474713-003	TCMX (PCB)	SVOA-GC06	B	12/15/22 04:53
474713-003	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/15/22 04:53
474713-004	Aroclor-1016	SVOA-GC06	B	12/15/22 05:11
474713-004	Aroclor-1221	SVOA-GC06	B	12/15/22 05:11
474713-004	Aroclor-1232	SVOA-GC06	B	12/15/22 05:11
474713-004	Aroclor-1242	SVOA-GC06	B	12/15/22 05:11
474713-004	Aroclor-1248	SVOA-GC06	B	12/15/22 05:11
474713-004	Aroclor-1254	SVOA-GC06	B	12/15/22 05:11
474713-004	Aroclor-1260	SVOA-GC06	B	12/15/22 05:11
474713-004	Aroclor-1262	SVOA-GC06	B	12/15/22 05:11
474713-004	Aroclor-1268	SVOA-GC06	B	12/15/22 05:11
474713-004	TCMX (PCB)	SVOA-GC06	B	12/15/22 05:11
474713-004	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/15/22 05:11
474713-005	Aroclor-1016	SVOA-GC06	B	12/15/22 05:29
474713-005	Aroclor-1221	SVOA-GC06	B	12/15/22 05:29
474713-005	Aroclor-1232	SVOA-GC06	B	12/15/22 05:29
474713-005	Aroclor-1242	SVOA-GC06	B	12/15/22 05:29
474713-005	Aroclor-1248	SVOA-GC06	B	12/15/22 05:29
474713-005	Aroclor-1254	SVOA-GC06	B	12/15/22 05:29

REPORTING SUMMARY FOR 474713 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
474713-005	Aroclor-1260	SVOA-GC06	B	12/15/22 05:29
474713-005	Aroclor-1262	SVOA-GC06	B	12/15/22 05:29
474713-005	Aroclor-1268	SVOA-GC06	B	12/15/22 05:29
474713-005	TCMX (PCB)	SVOA-GC06	B	12/15/22 05:29
474713-005	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/15/22 05:29
QC1031899	Aroclor-1016	SVOA-GC06	B	12/15/22 00:18
QC1031899	Aroclor-1221	SVOA-GC06	B	12/15/22 00:18
QC1031899	Aroclor-1232	SVOA-GC06	B	12/15/22 00:18
QC1031899	Aroclor-1242	SVOA-GC06	B	12/15/22 00:18
QC1031899	Aroclor-1248	SVOA-GC06	B	12/15/22 00:18
QC1031899	Aroclor-1254	SVOA-GC06	B	12/15/22 00:18
QC1031899	Aroclor-1260	SVOA-GC06	B	12/15/22 00:18
QC1031899	Aroclor-1262	SVOA-GC06	B	12/15/22 00:18
QC1031899	Aroclor-1268	SVOA-GC06	B	12/15/22 00:18
QC1031899	TCMX (PCB)	SVOA-GC06	B	12/15/22 00:18
QC1031899	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/15/22 00:18
QC1031900	Aroclor-1016	SVOA-GC06	B	12/15/22 00:36
QC1031900	Aroclor-1260	SVOA-GC06	B	12/15/22 00:36
QC1031900	TCMX (PCB)	SVOA-GC06	B	12/15/22 00:36
QC1031900	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/15/22 00:36
QC1031901	Aroclor-1016	SVOA-GC06	B	12/15/22 00:54
QC1031901	Aroclor-1260	SVOA-GC06	B	12/15/22 00:54
QC1031901	TCMX (PCB)	SVOA-GC06	B	12/15/22 00:54
QC1031901	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/15/22 00:54

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	474713-001	Client ID:	ARCH-C5W-EXT-1 TO 2-221209-P-WF
Seqnum:	452501809054	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_121422054	Batch:	303182	Time:	15-DEC-2022 04:16
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	93.04	~~0.93~~ ~~FP~~	0.94	1%	0.50		x u
Aroclor-1016 Peak # 1	B	127.8	1.28	0.34	116%			
Aroclor-1016 Peak # 2	B	171.8	1.72	0.00	200%			
Aroclor-1016 Peak # 3	B	107.8	1.08	0.85	23%			
Aroclor-1016 Peak # 4	B	24.38	0.24	2.76	168%			
Aroclor-1016 Peak # 5	B	33.44	0.33	0.72	73%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	39.13	ND	0.59	40%	0.50		u
Aroclor-1260 Peak # 1	B	99.37	0.99	1.24	22%			
Aroclor-1260 Peak # 2	B	51.48	0.51	0.00	198%			
Aroclor-1260 Peak # 3	B	10.37	0.10	0.25	84%			
Aroclor-1260 Peak # 4	B	-19.05	ND	1.21	275%			
Aroclor-1260 Peak # 5	B	53.45	0.53	0.23	79%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	35.86	0.5000	0.3586	72	19-121	u
Decachlorobiphenyl (PCB)	B	37.21	0.5000	0.3721	74	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_121422036)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	5560467	5050902	-9.16
1-bromo-2-nitrobenzene (PCB)	A	1170615	1108615	-5.30

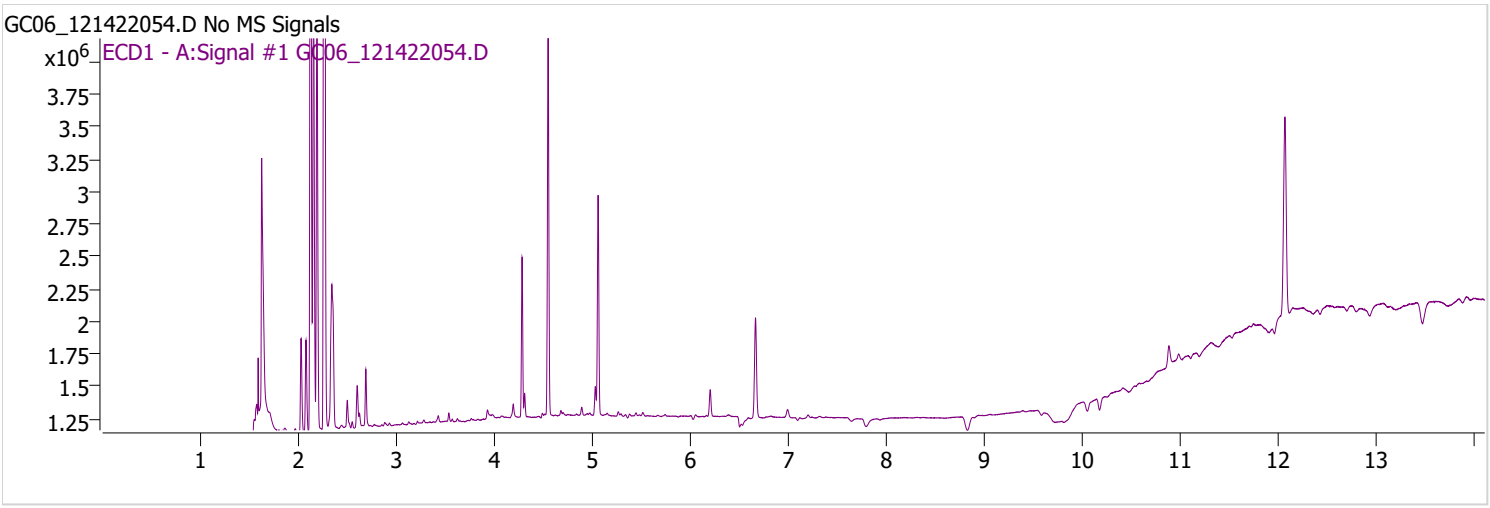
NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

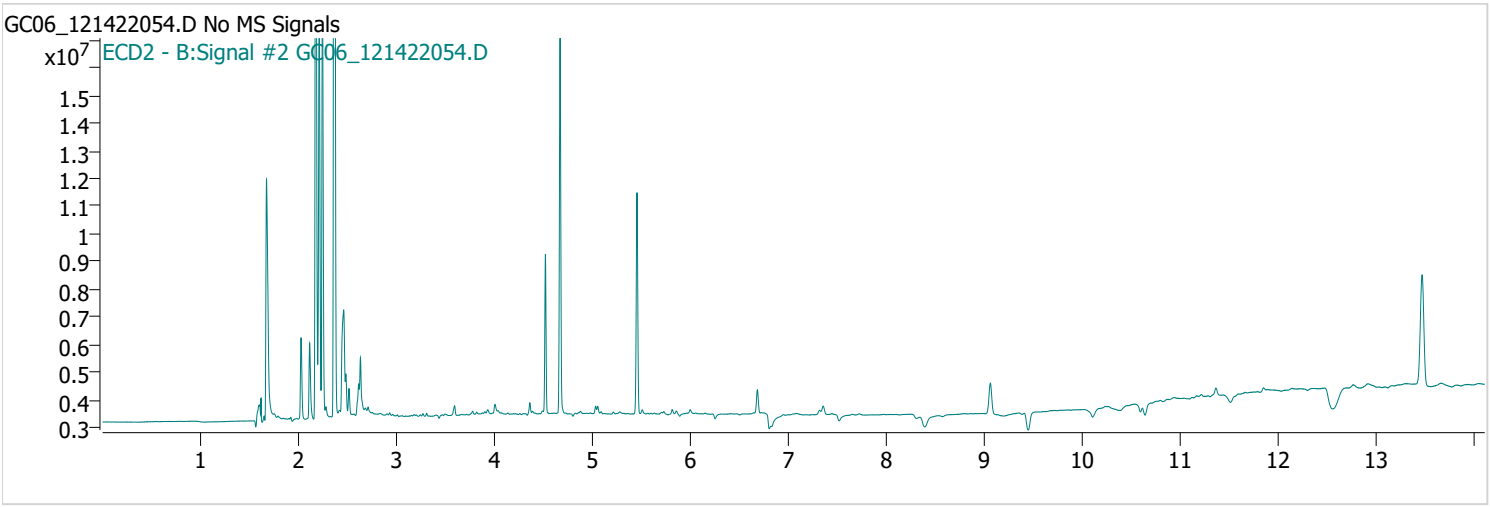
ISTD (CCV gc06_121422036)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.52	4.52	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.28	4.28	0.00

Analyst: MES 12/15/22 **Reviewer:** LW 12/15/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_121422054.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/15/2022 4:16:22 AM
Sample Name	474713-001, 303182, 1	Instrument	SVOA-GC06
Vial	37	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_11.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	121422PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



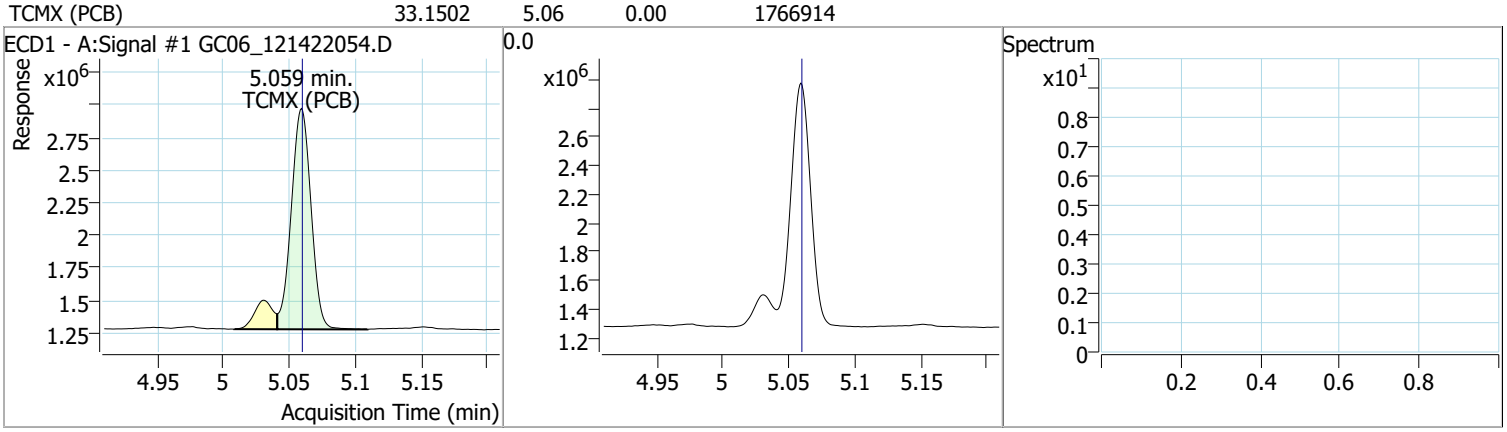


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.283	0.0	1108614.745	20.0000	ng/ml		-0.003
M 1-bromo-2-nitrobenzene (PCB) #2	4.521	0.0	5050902.434	20.0000	ng/ml		-0.002
System Monitoring Compounds							
S TCMX (PCB)	5.059	0.0	1766914.289	33.1502	ng/ml		-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 165.75%		*	
S TCMX (PCB) #2	5.456	0.0	8699630.678	35.8648	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 179.32%		*	
S Decachlorobiphenyl (PCB)	12.072	0.0	3235338.856	43.8285	ng/ml		-0.006
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 219.14%		*	
S Decachlorobiphenyl (PCB) #2	13.472	0.0	10103835.441	37.2153	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 186.08%		*	
Target Compounds							QValue

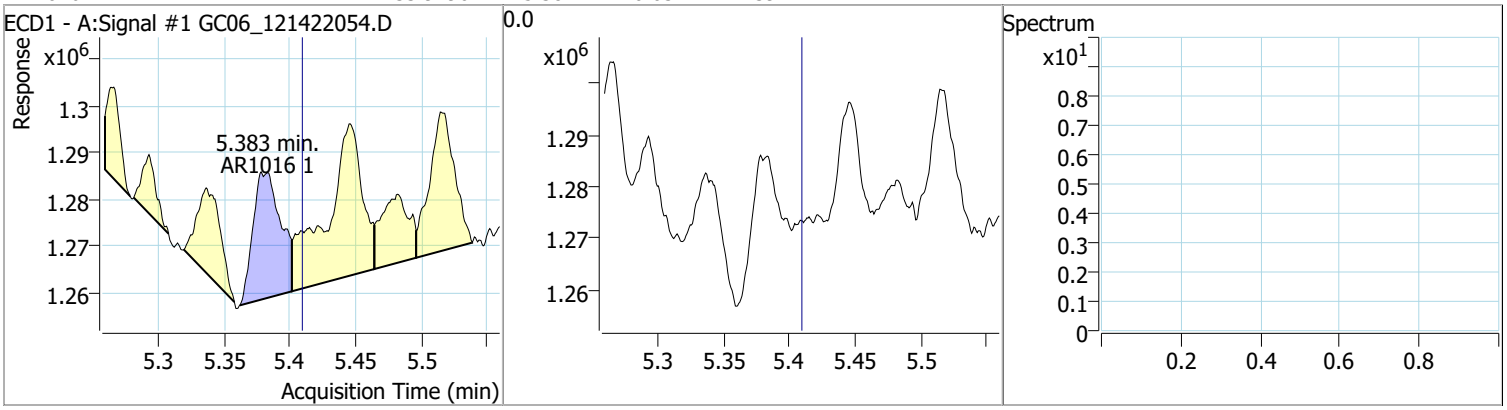
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.383	0.0	39424.114	33.9190	ng/ml	100
T AR1016 2	5.741	0.0	35712.321	0.0630	ng/ml	100
T AR1016 1 #2	5.999	0.0	671037.046	127.8285	ng/ml	100
T AR1016 3	6.203	0.0	251909.823	85.4827	ng/ml	100
T AR1016 4	6.387	0.0	618532.330	275.9697	ng/ml	100
T AR1016 2 #2	6.425	0.0	1301986.744	171.8134	ng/ml	100
T AR1016 5	6.459	0.0	130506.376	72.2917	ng/ml	100
T AR1016 3 #2	7.091	0.0	1483807.569	107.7634	ng/ml	100
T AR1016 4 #2	7.091	0.0	239628.691	24.3775	ng/ml	100
T AR1016 5 #2	7.319	0.0	267229.540	33.4447	ng/ml	100
T AR1260 1	8.759	0.0	463518.972	123.6628	ng/ml	100
T AR1260 2	9.328	0.0	1659.768	0.2905	ng/ml	100
T AR1260 3	9.614	0.0	151608.570	25.3894	ng/ml	100
T AR1260 1 #2	10.025	0.0	1493746.209	99.3749	ng/ml	100
T AR1260 4	10.149	0.0	429147.724	120.6284	ng/ml	100
T AR1260 2 #2	10.238	0.0	929853.372	51.4852	ng/ml	100
T AR1260 3 #2	10.616	0.0	236992.977	10.3668	ng/ml	100
T AR1260 5	10.887	0.0	274424.928	23.1819	ng/ml	100
T AR1260 4 #2	11.126	0.0	57809.426	0.0000	ng/ml	100
T AR1260 5 #2	11.367	0.0	1369994.442	53.4535	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

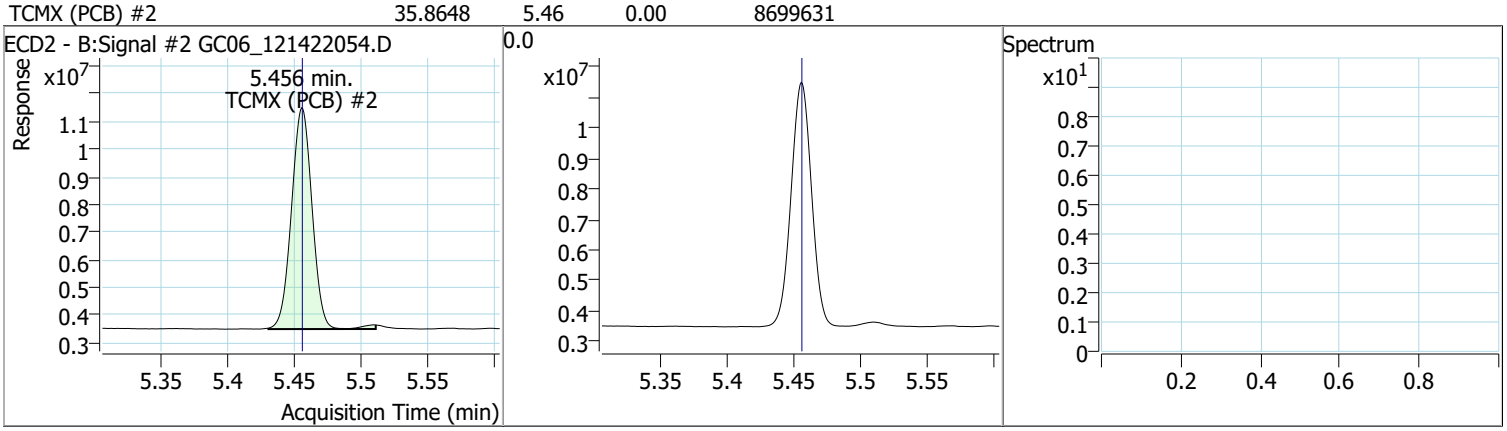
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	33.1502	5.06	0.00	1766914				



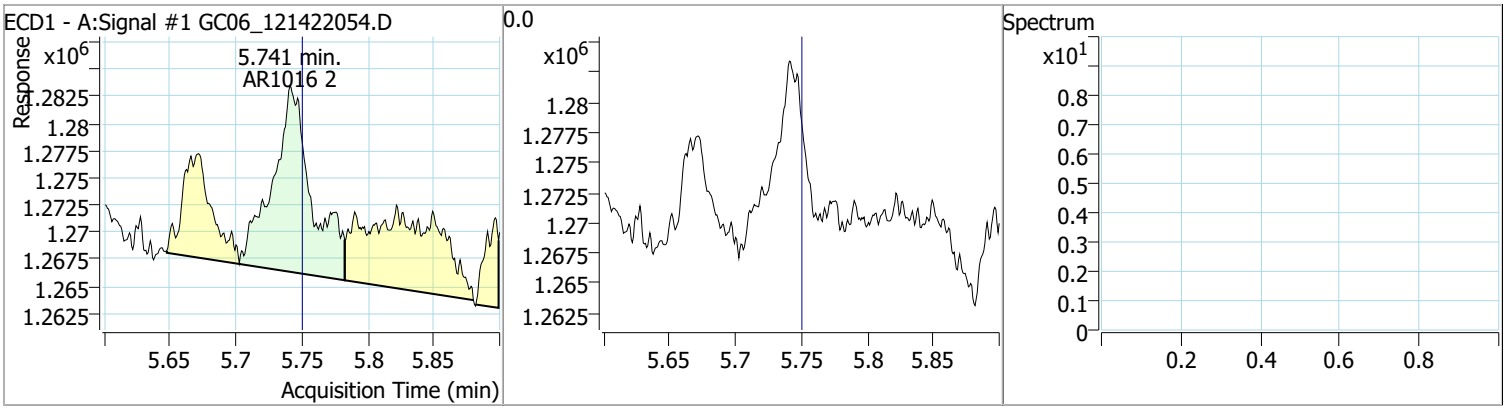
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	33.9190	5.38	-0.03	39424				



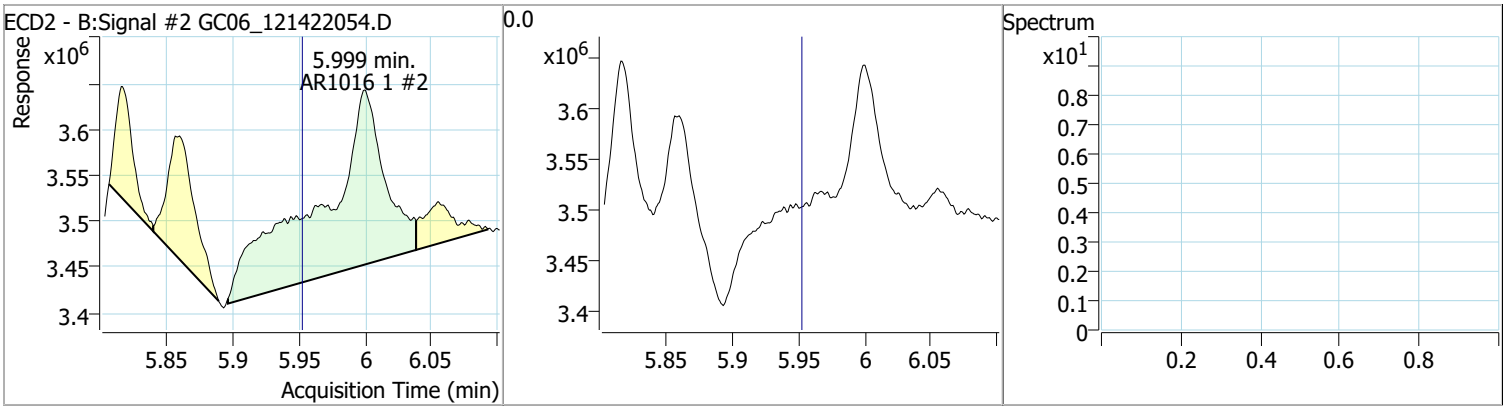
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	35.8648	5.46	0.00	8699631				



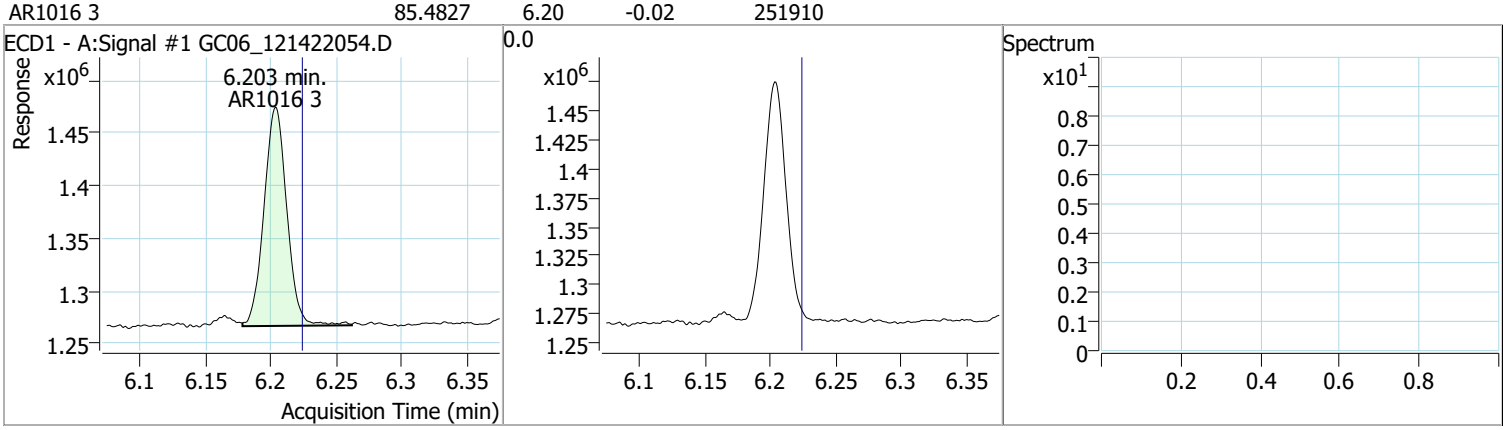
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0630	5.74	-0.01	35712				



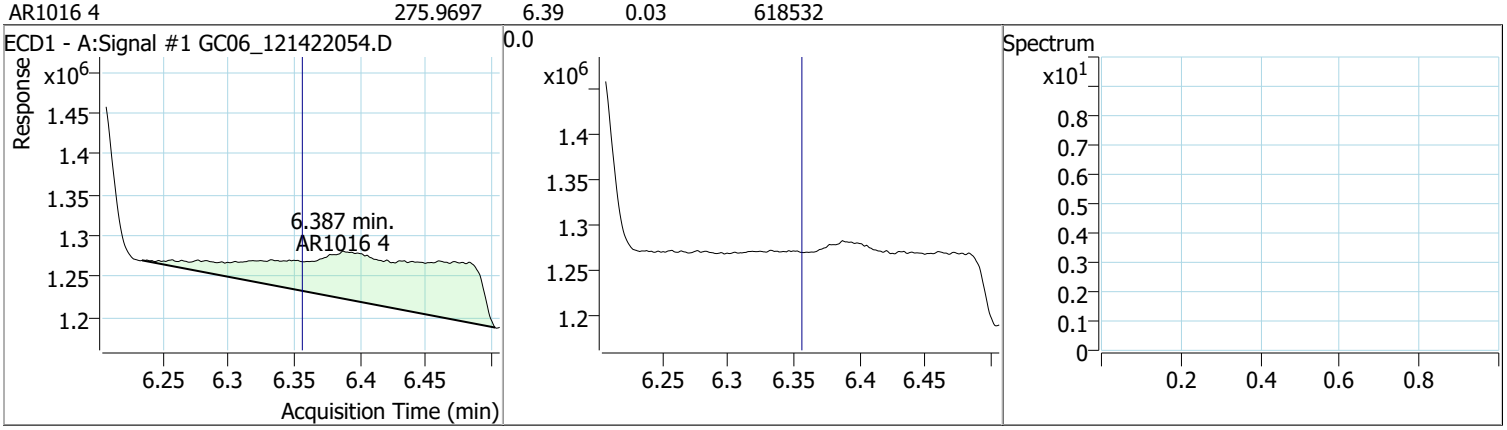
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	127.8285	6.00	0.05	671037				



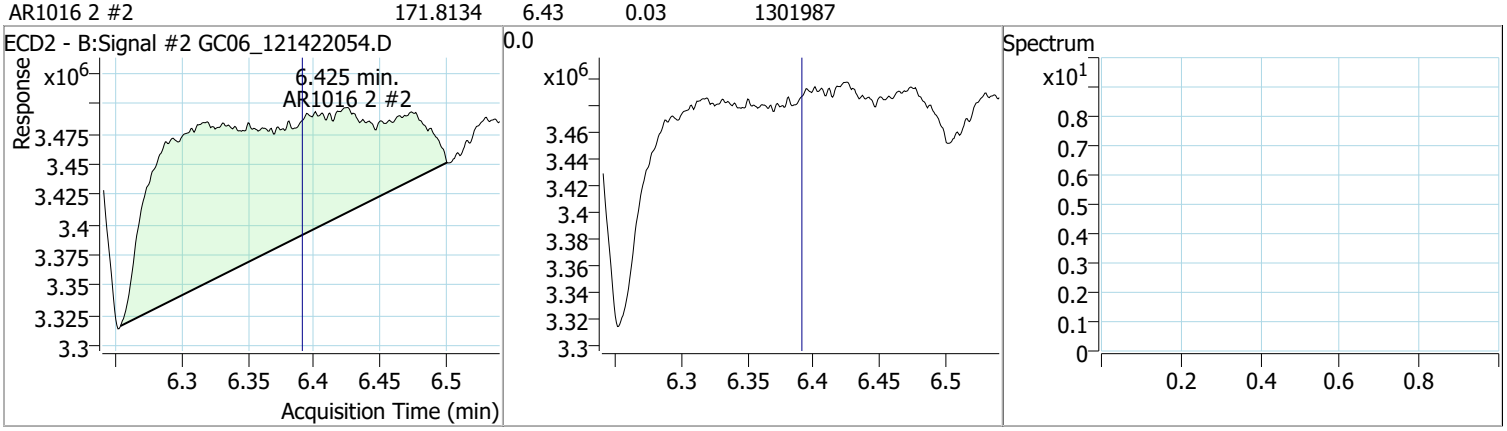
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	85.4827	6.20	-0.02	251910				



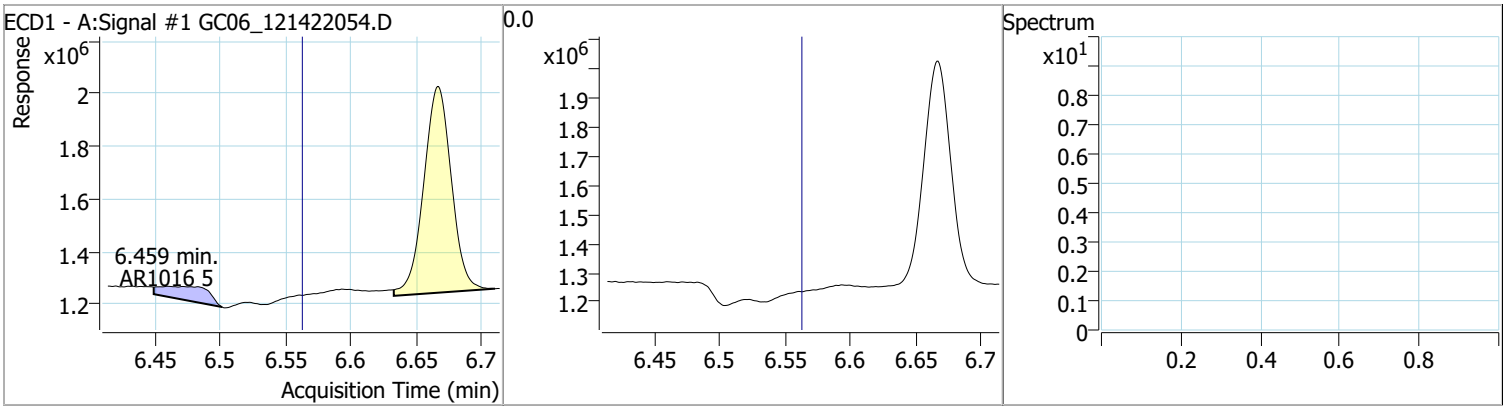
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	275.9697	6.39	0.03	618532				



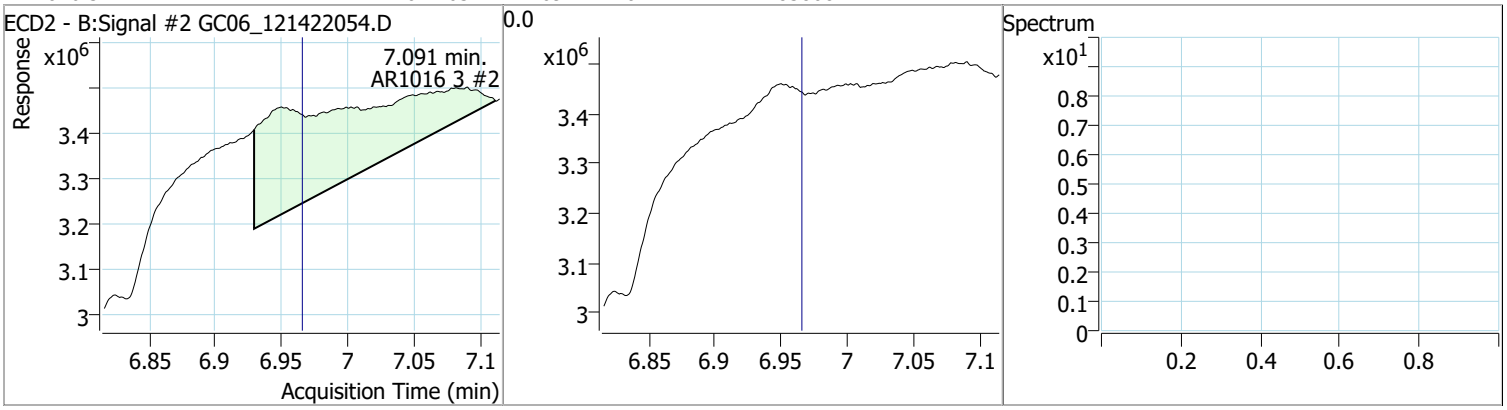
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	171.8134	6.43	0.03	1301987				



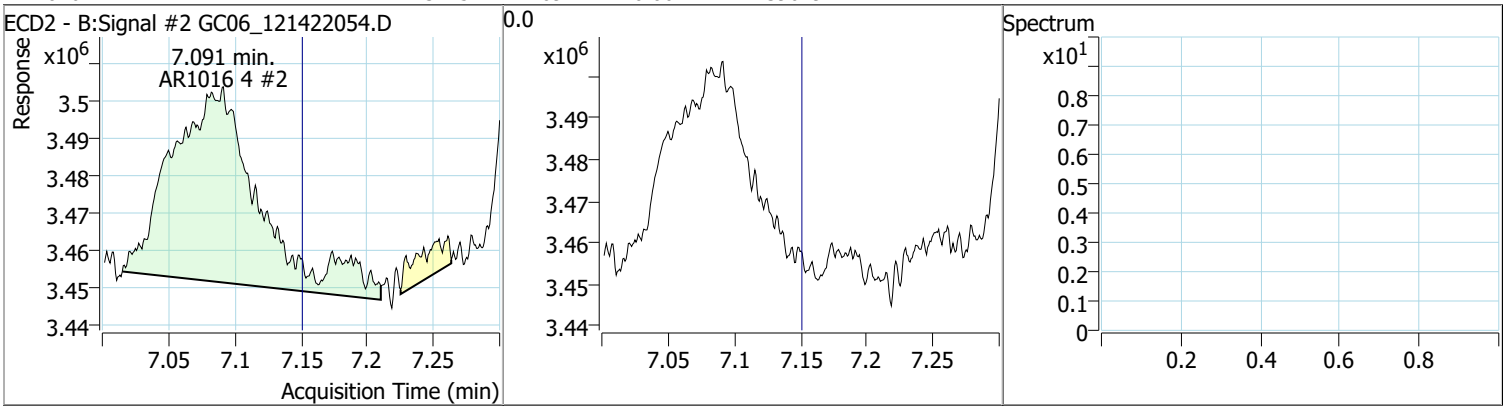
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	72.2917	6.46	-0.11	130506				



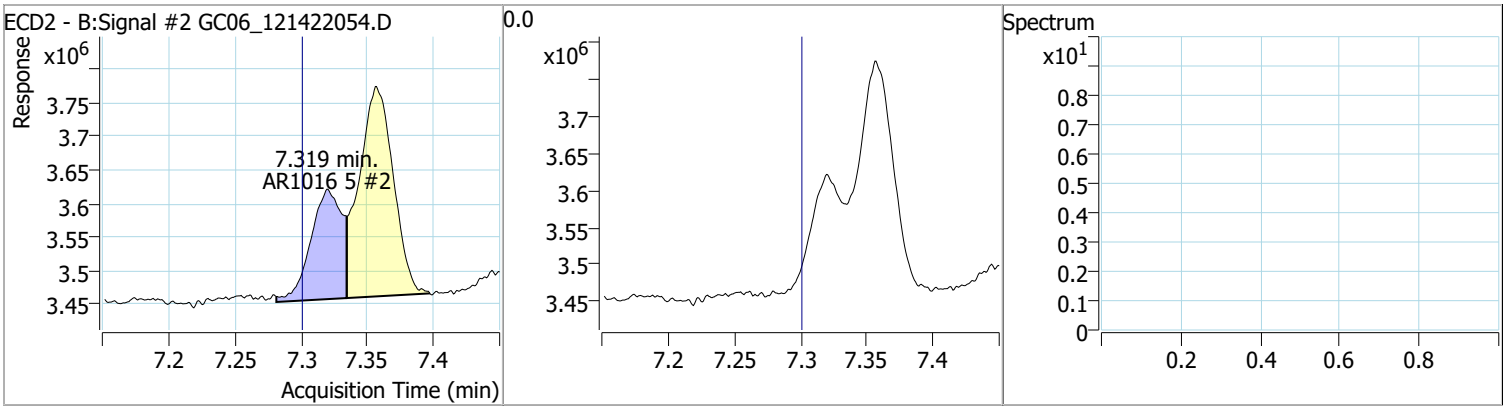
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	107.7634	7.09	0.12	1483808				



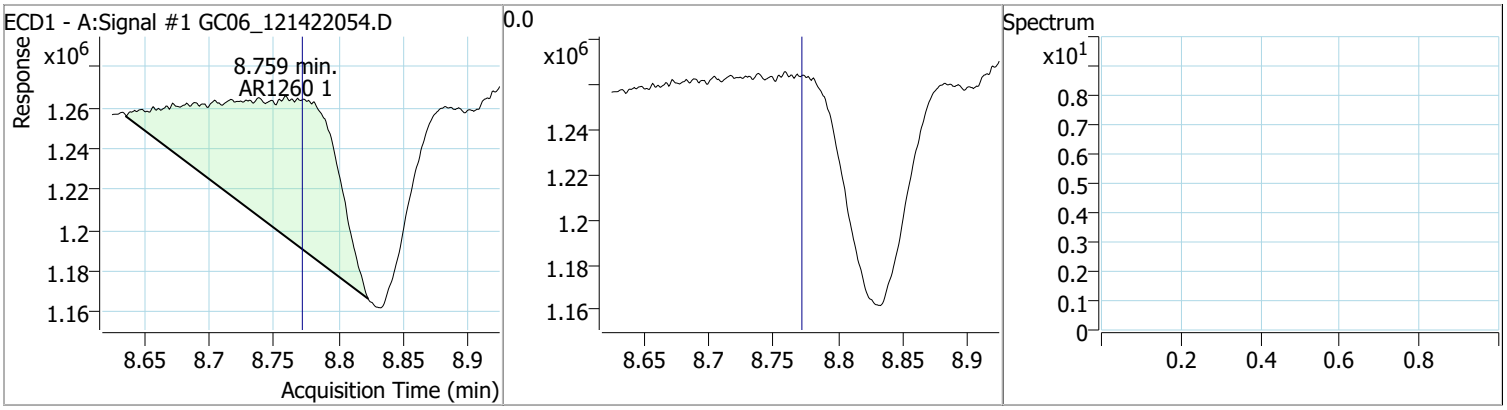
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	24.3775	7.09	-0.06	239629				



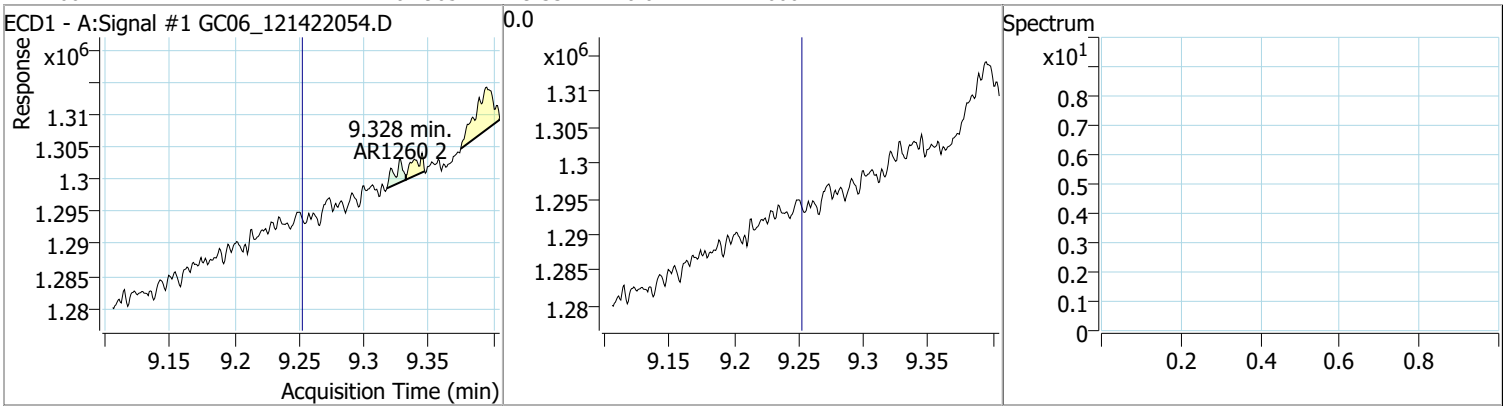
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	33.4447	7.32	0.02	267230				



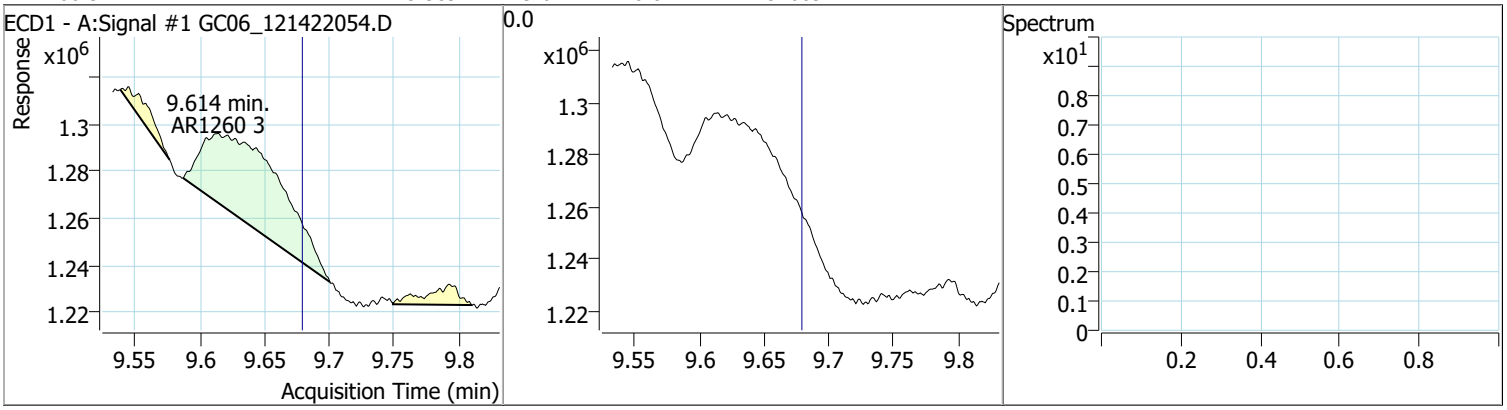
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	123.6628	8.76	-0.02	463519				



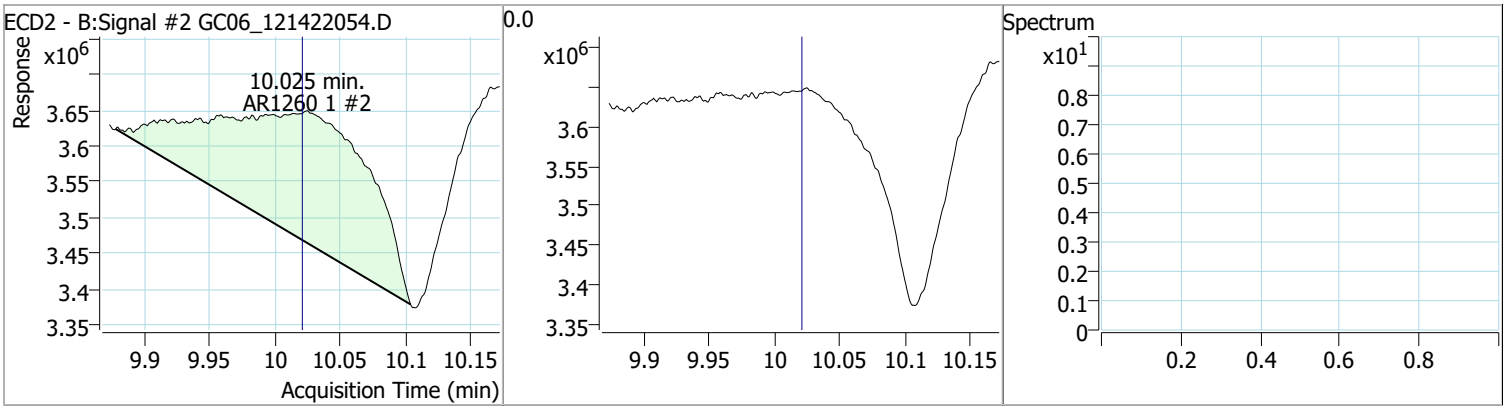
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.2905	9.33	0.07	1660				



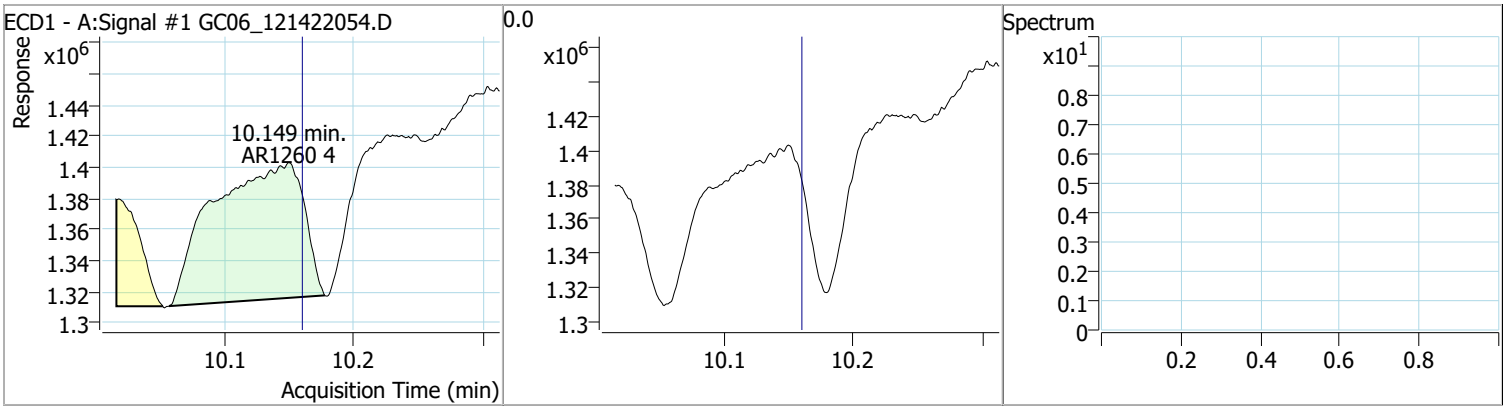
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	25.3894	9.61	-0.07	151609				



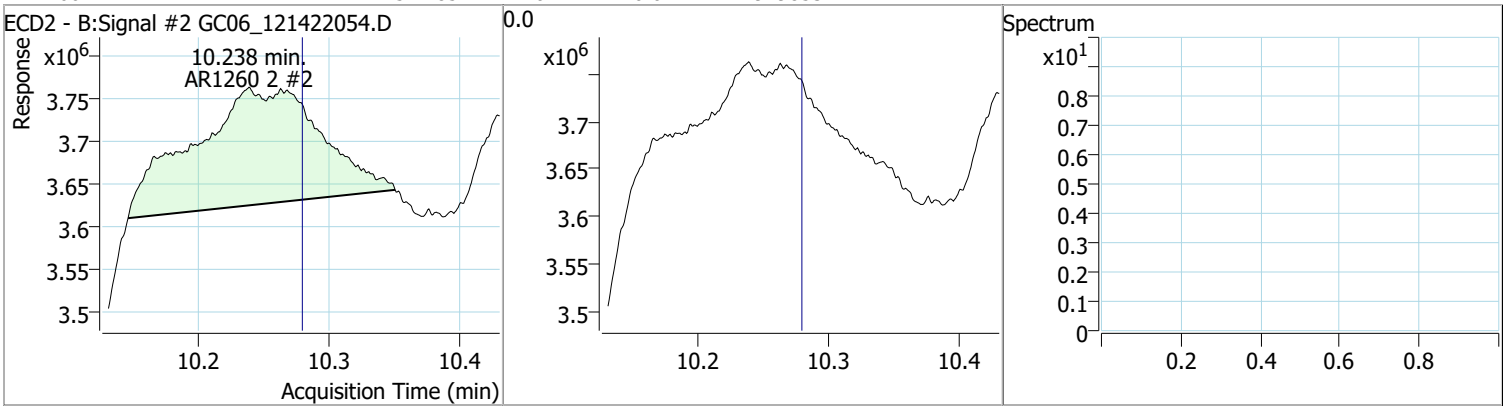
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	99.3749	10.03	0.00	1493746				



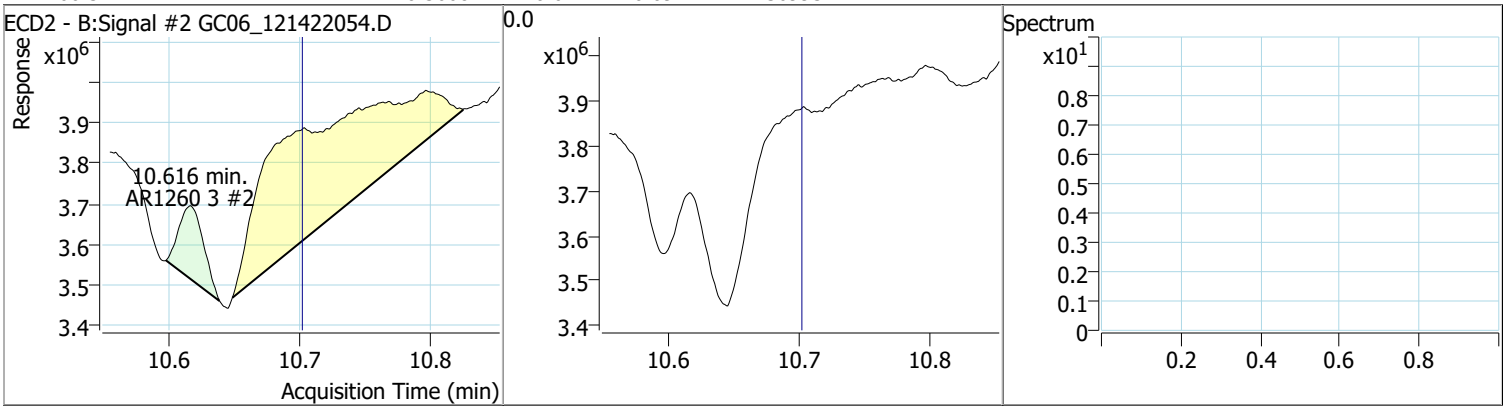
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	120.6284	10.15	-0.02	429148				



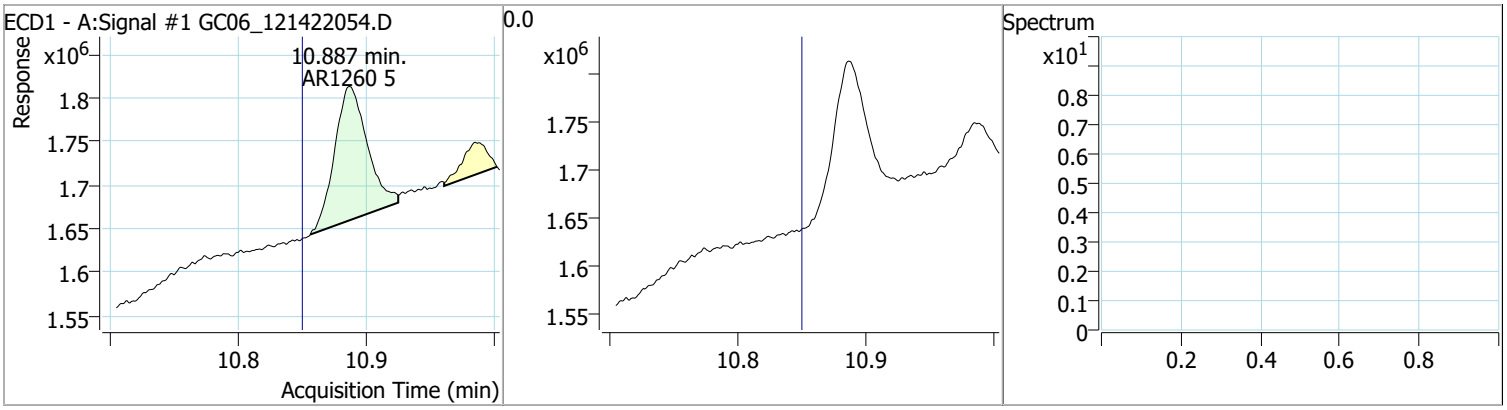
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	51.4852	10.24	-0.04	929853				



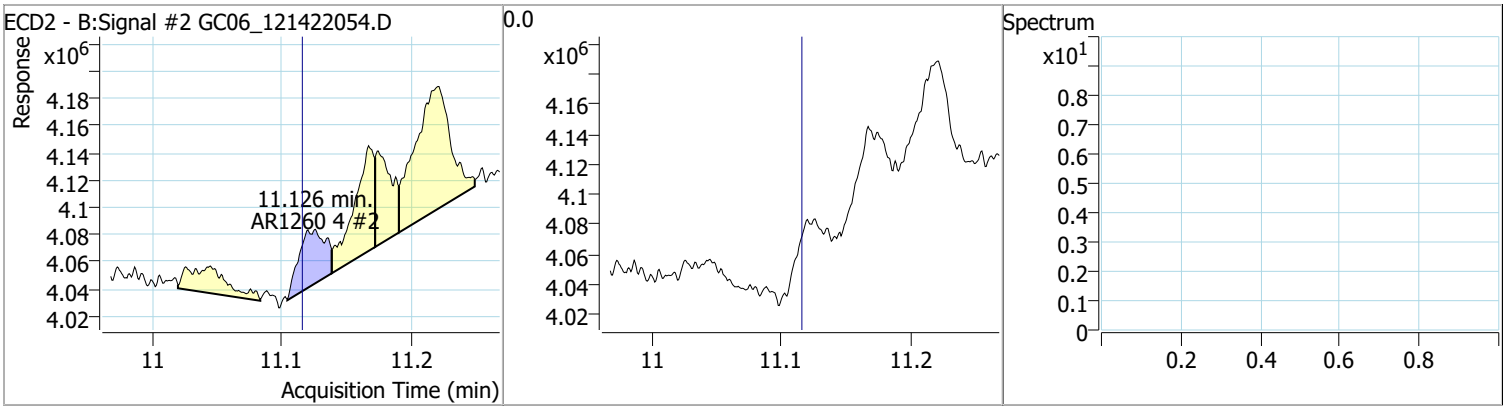
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	10.3668	10.62	-0.09	236993				



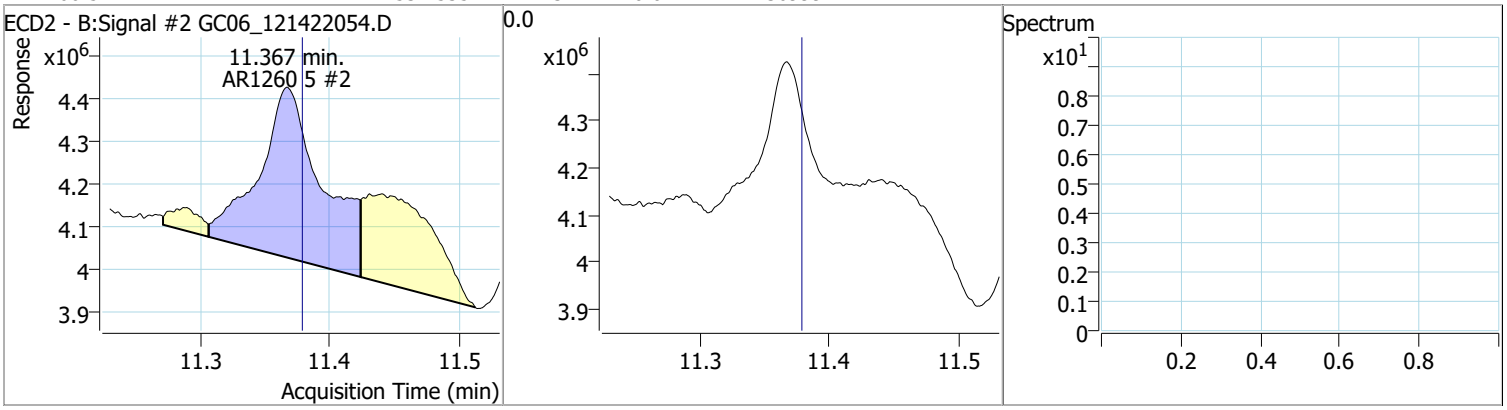
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	23.1819	10.89	0.03	274425				



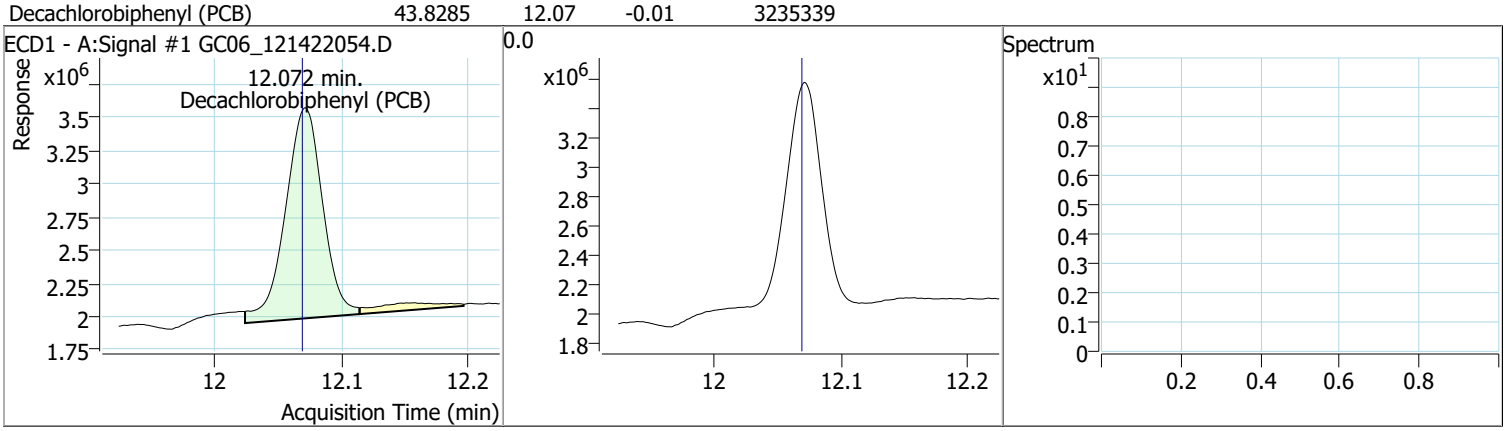
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	0.0000	11.13	0.01	57809				



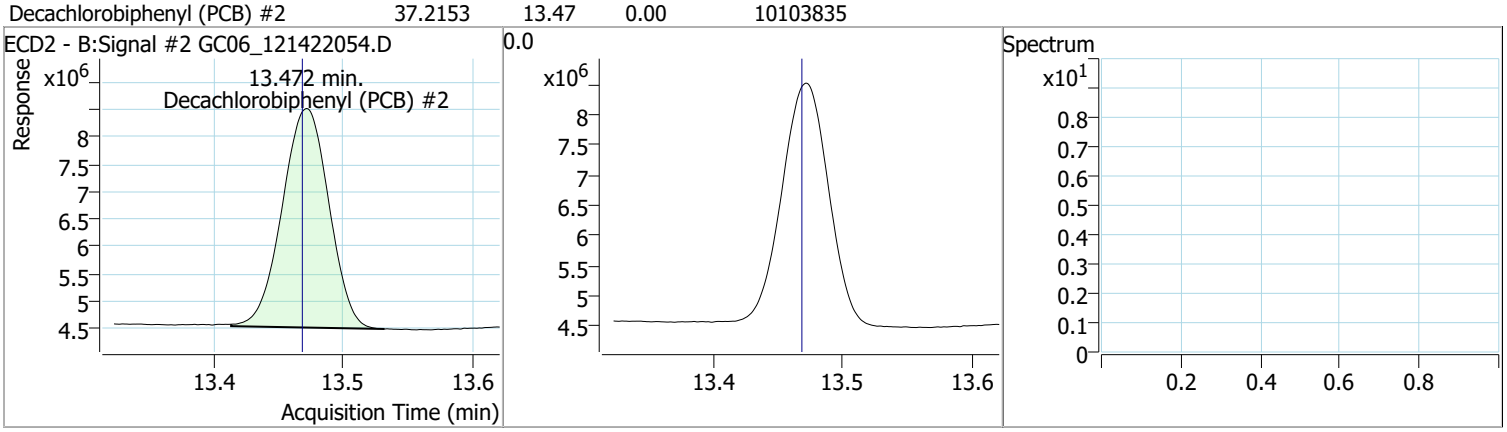
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	53.4535	11.37	-0.02	1369994				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	43.8285	12.07	-0.01	3235339				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	37.2153	13.47	0.00	10103835				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	474713-002	Client ID:	ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-P-LA
Seqnum:	452501809055	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_121422055	Batch:	303182	Time:	15-DEC-2022 04:34
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	68.47	~~0.68~~ FP	2.9	124%	0.50		x u
Aroclor-1016 Peak # 1	B	12.53	0.13	0.27	74%			
Aroclor-1016 Peak # 2	B	96.03	0.96	ND	227%			
Aroclor-1016 Peak # 3	B	186.0	1.86	0.66	96%			
Aroclor-1016 Peak # 4	B	18.86	0.19	2.30	170%			
Aroclor-1016 Peak # 5	B	28.92	0.29	11.36	190%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	67.68	~~0.68~~ FP	0.40	51%	0.50		x u
Aroclor-1260 Peak # 1	B	90.89	0.91	0.80	13%			
Aroclor-1260 Peak # 2	B	89.68	0.90	0.00	199%			
Aroclor-1260 Peak # 3	B	71.40	0.71	0.22	106%			
Aroclor-1260 Peak # 4	B	-7.723	ND	0.87	239%			
Aroclor-1260 Peak # 5	B	94.17	0.94	0.11	157%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	29.71	0.5000	0.2971	59	19-121	u
Decachlorobiphenyl (PCB)	B	26.65	0.5000	0.2665	53	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_121422036)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	5560467	5737261	3.18
1-bromo-2-nitrobenzene (PCB)	A	1170615	1255961	7.29

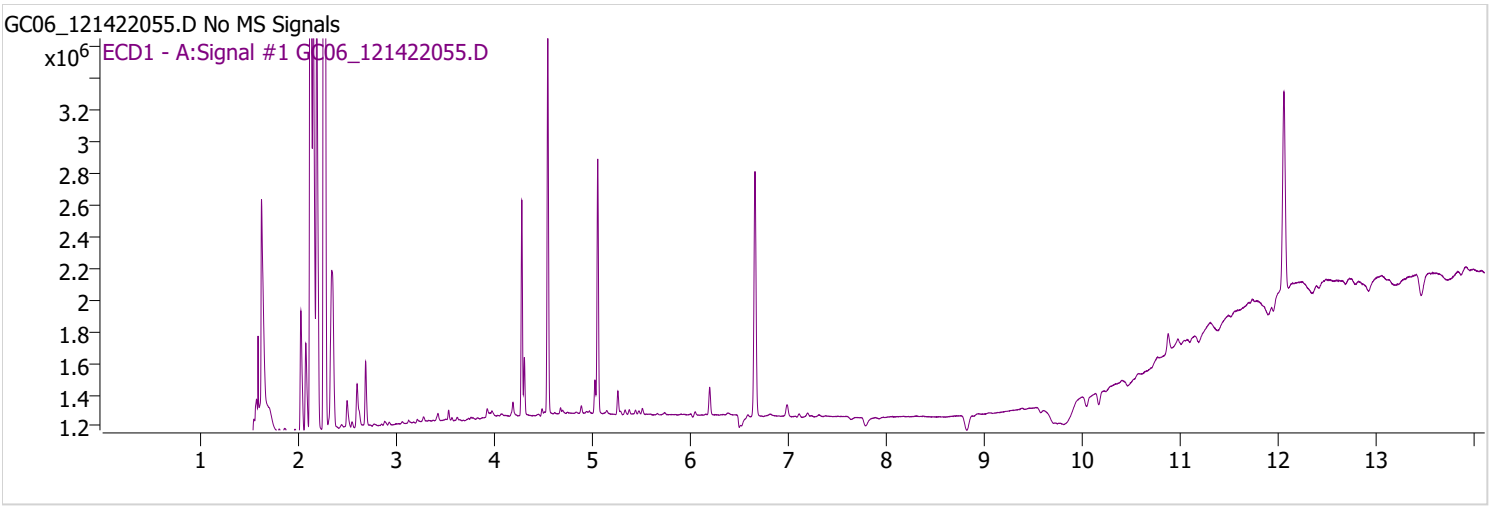
NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

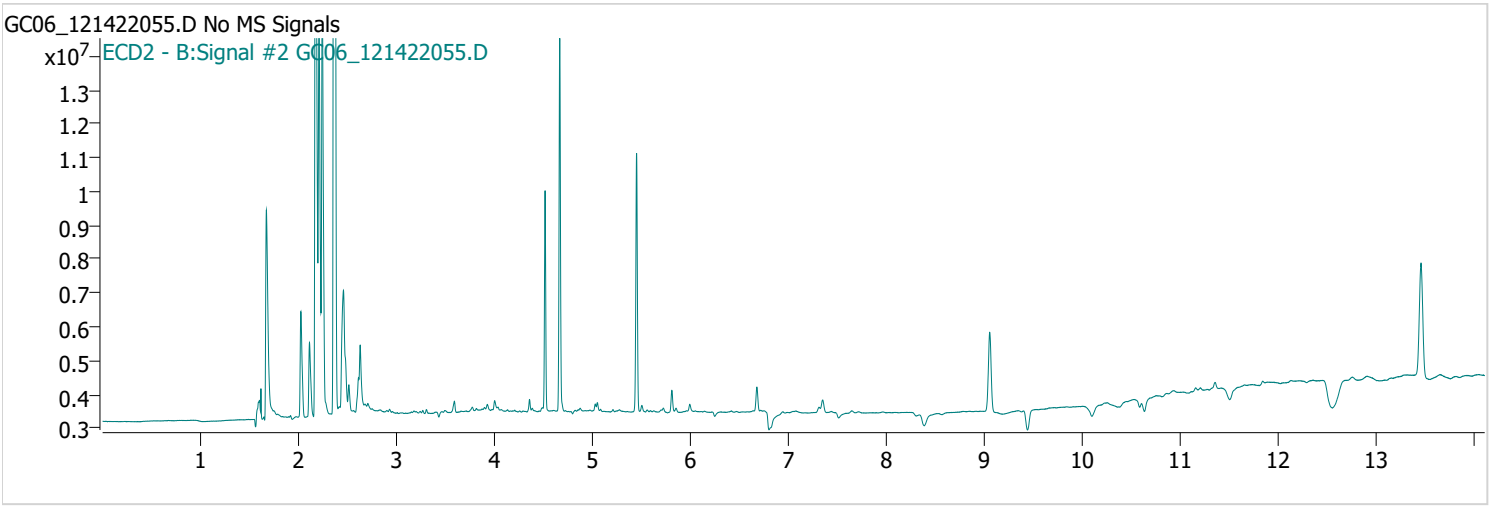
ISTD (CCV gc06_121422036)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.52	4.52	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.28	4.28	0.00

Analyst: MES 12/15/22 **Reviewer:** LW 12/15/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_121422055.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/15/2022 4:34:40 AM
Sample Name	474713-002, 303182, 1	Instrument	SVOA-GC06
Vial	38	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_11.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	121422PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



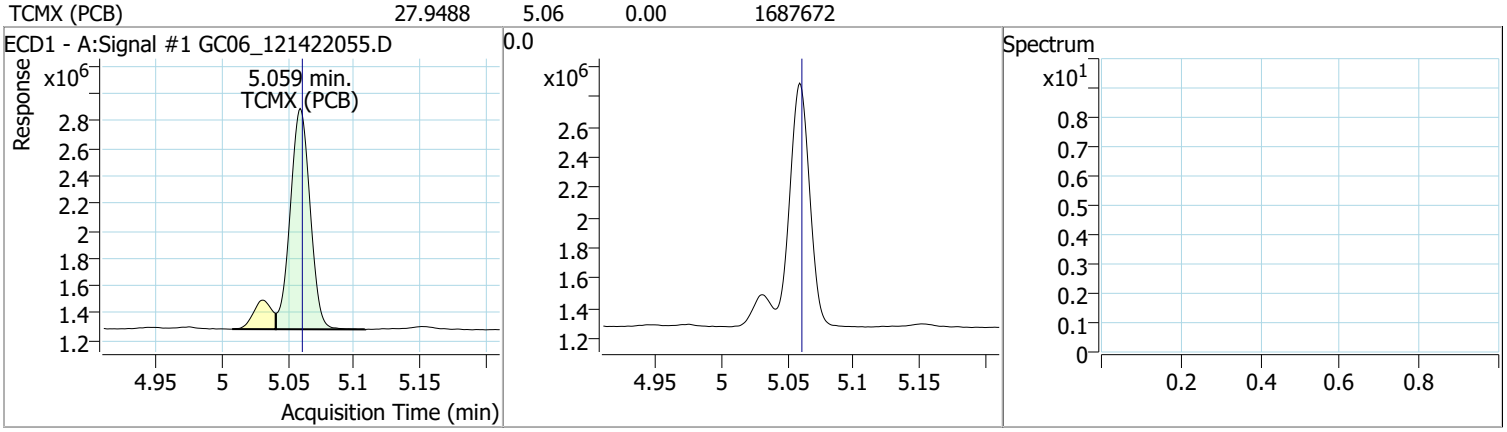


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.283	0.0	1255961.183	20.0000	ng/ml		-0.003
M 1-bromo-2-nitrobenzene (PCB) #2	4.522	0.0	5737260.778	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.059	0.0	1687671.971	27.9488	ng/ml		-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 139.74%			
S TCMX (PCB) #2	5.456	0.0	8185088.345	29.7068	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 148.53%			
S Decachlorobiphenyl (PCB)	12.070	0.0	2678092.801	30.8592	ng/ml		-0.008
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 154.30%		*	
S Decachlorobiphenyl (PCB) #2	13.470	0.0	8393912.043	26.6509	ng/ml		-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 133.25%			
Target Compounds							QValue

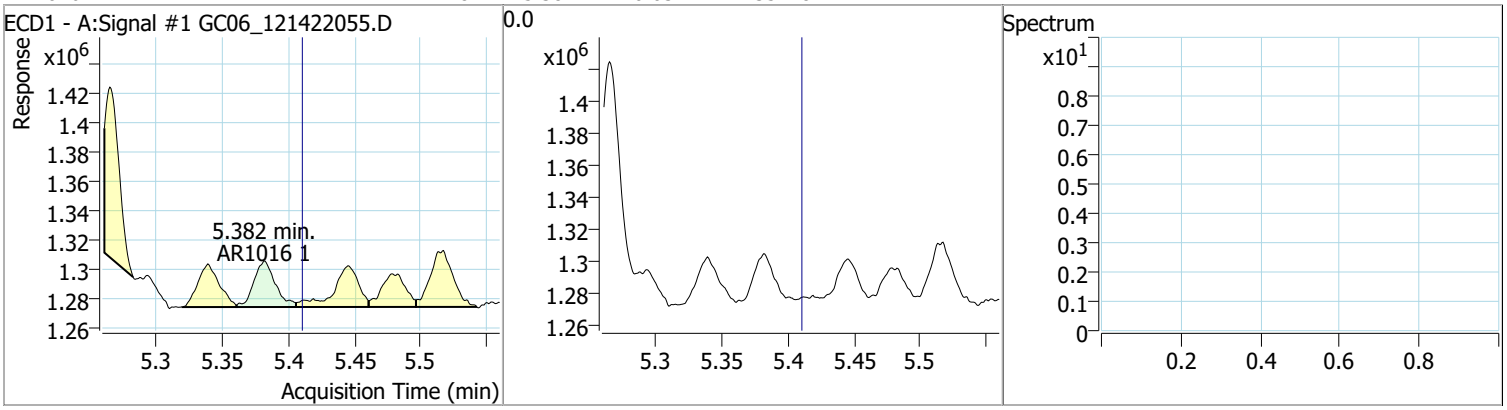
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.382	0.0	35747.772	27.1478	ng/ml	100
T AR1016 2	5.743	0.0	24181.375	0.0000	ng/ml	100
T AR1016 1 #2	5.966	0.0	74727.723	12.5322	ng/ml	100
T AR1016 3	6.203	0.0	219600.760	65.7766	ng/ml	100
T AR1016 4	6.394	0.0	585267.799	230.4932	ng/ml	100
T AR1016 2 #2	6.424	0.0	826570.994	96.0274	ng/ml	100
T AR1016 5	6.666	0.0	2322501.875	1135.5794	ng/ml	100
T AR1016 3 #2	7.078	0.0	2909531.281	186.0292	ng/ml	100
T AR1016 4 #2	7.078	0.0	210583.057	18.8599	ng/ml	100
T AR1016 5 #2	7.320	0.0	262511.794	28.9239	ng/ml	100
T AR1260 1	8.763	0.0	338053.916	79.6090	ng/ml	100
T AR1260 2	9.199	0.0	1041.788	0.1610	ng/ml	100
T AR1260 3	9.612	0.0	147696.970	21.8326	ng/ml	100
T AR1260 1 #2	10.009	0.0	1551945.504	90.8952	ng/ml	100
T AR1260 4	10.147	0.0	366471.306	87.1239	ng/ml	100
T AR1260 2 #2	10.262	0.0	1839762.694	89.6797	ng/ml	100
T AR1260 3 #2	10.764	0.0	1854133.086	71.4028	ng/ml	100
T AR1260 5	10.888	0.0	222283.119	11.4155	ng/ml	100
T AR1260 4 #2	11.168	0.0	227040.874	0.0000	ng/ml	100
T AR1260 5 #2	11.366	0.0	2435039.409	94.1803	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

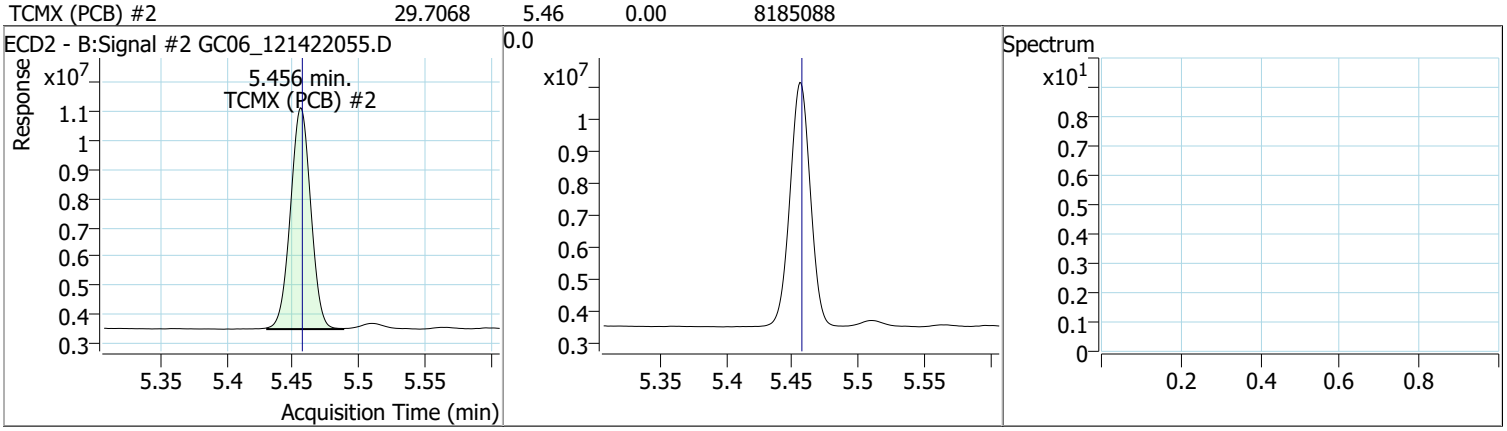
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	27.9488	5.06	0.00	1687672				



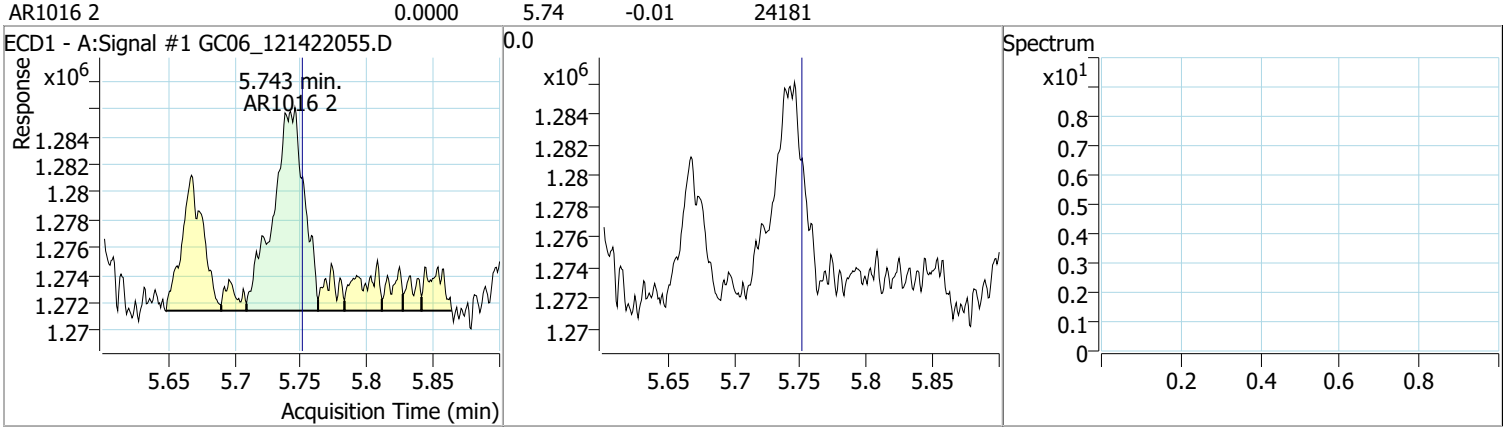
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	27.1478	5.38	-0.03	35748				



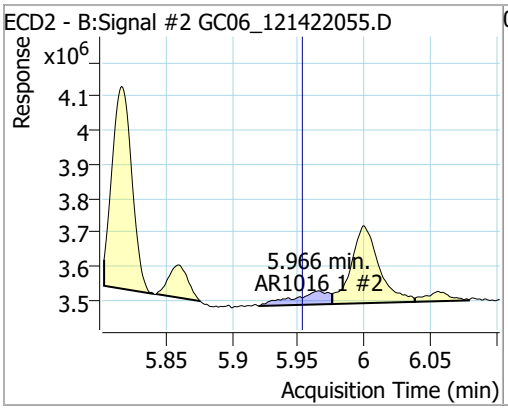
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	29.7068	5.46	0.00	8185088				

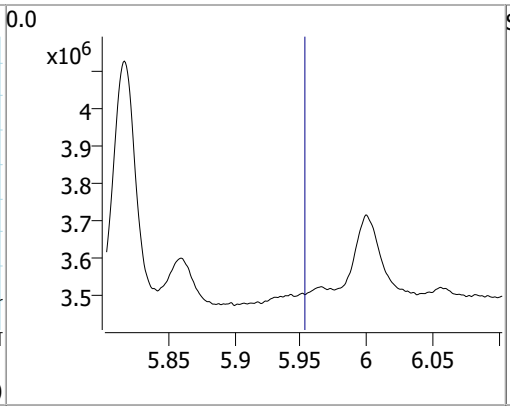


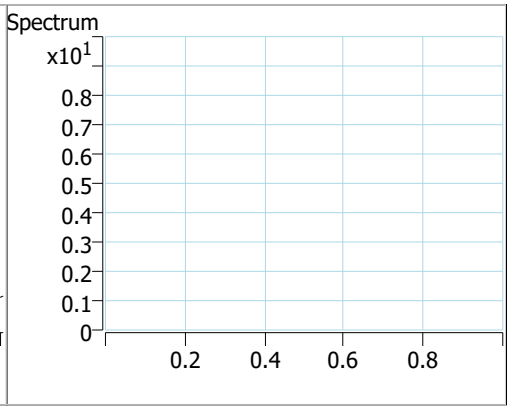
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.74	-0.01	24181				



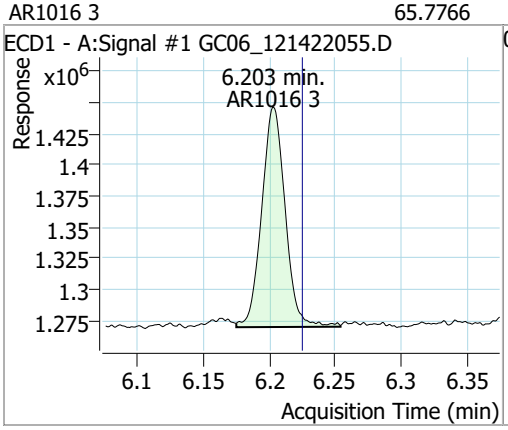
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	12.5322	5.97	0.01	74728				

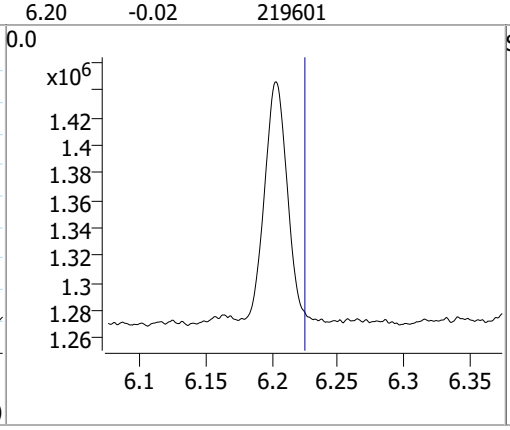


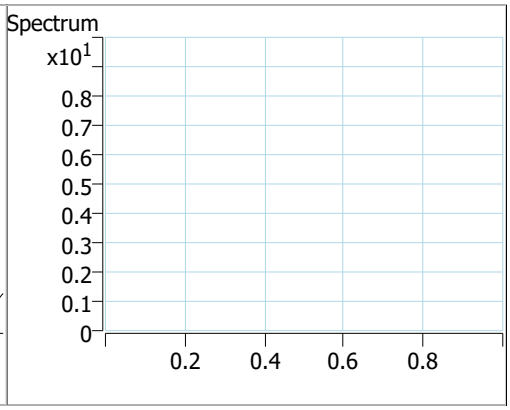




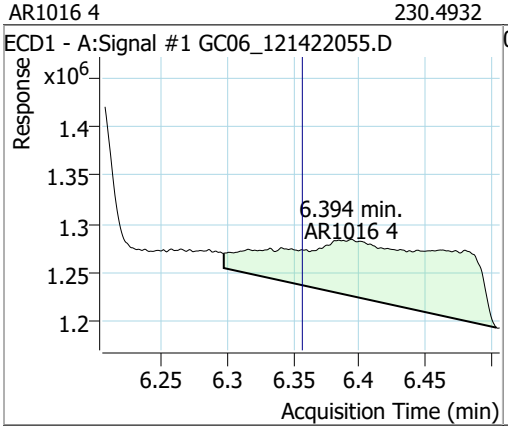
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	65.7766	6.20	-0.02	219601				

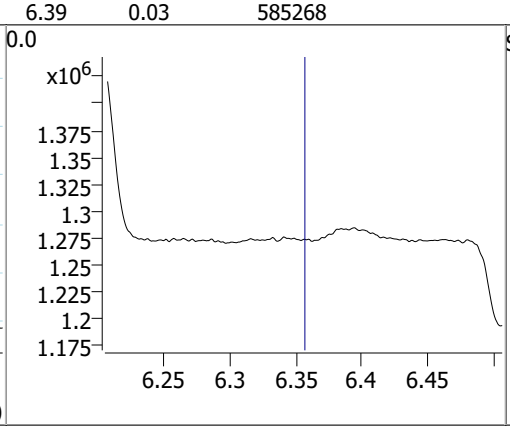


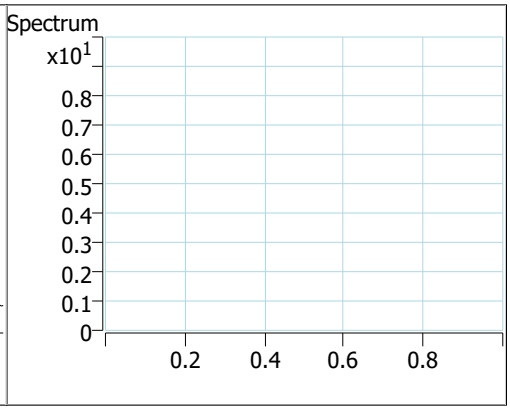




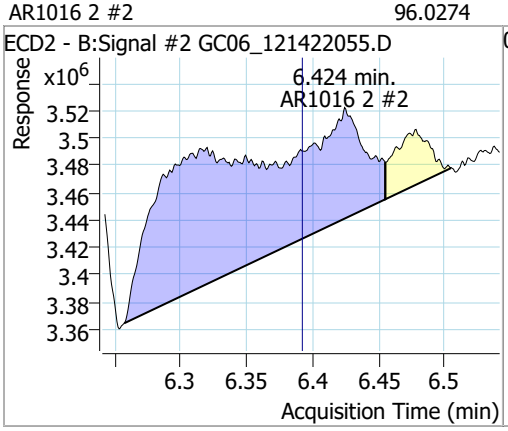
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	230.4932	6.39	0.03	585268				

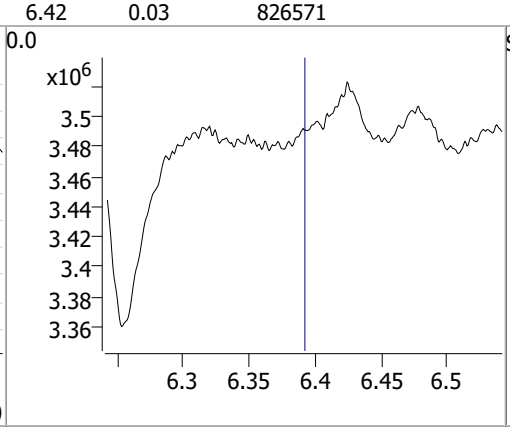


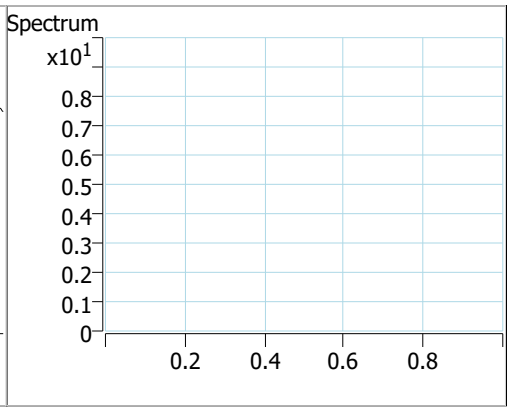




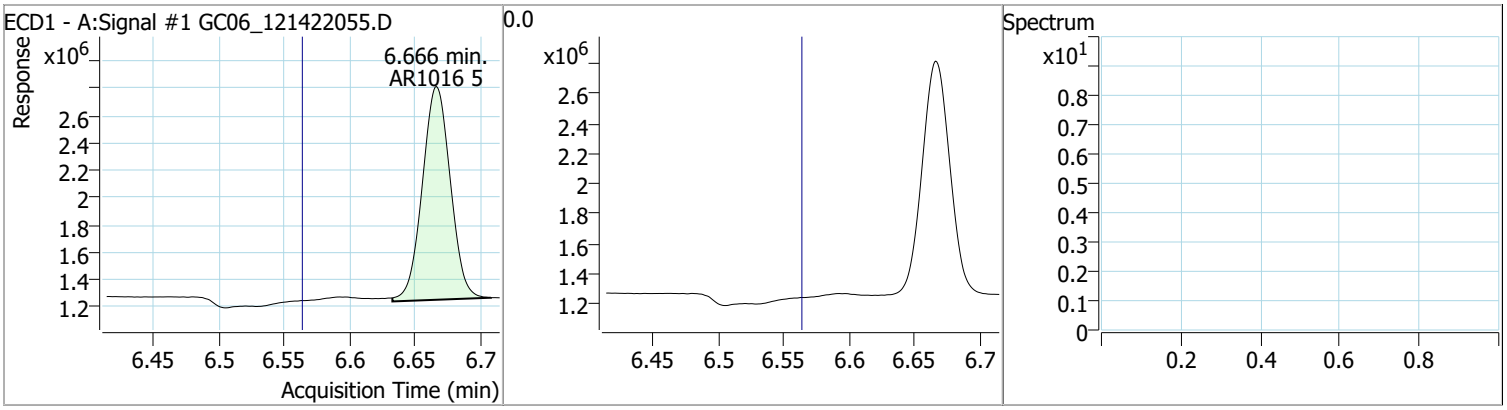
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	96.0274	6.42	0.03	826571				



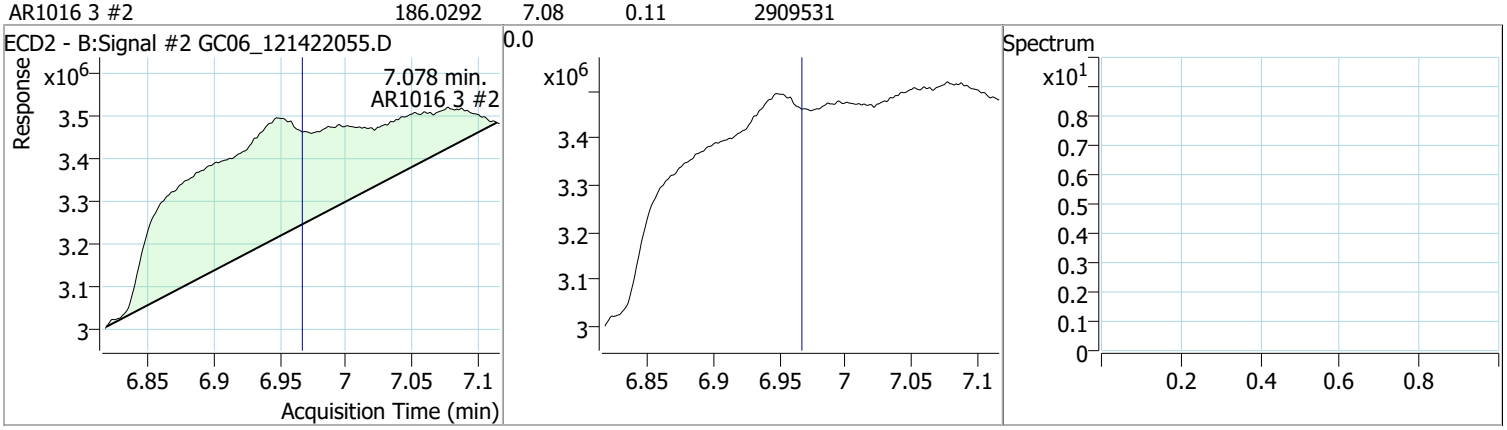




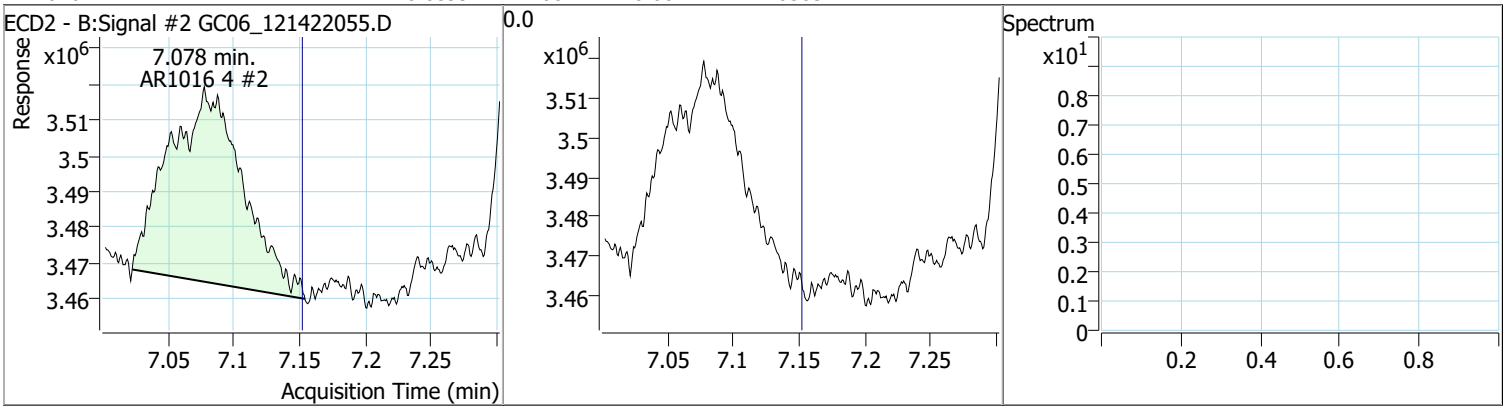
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	1135.5794	6.67	0.10	2322502				



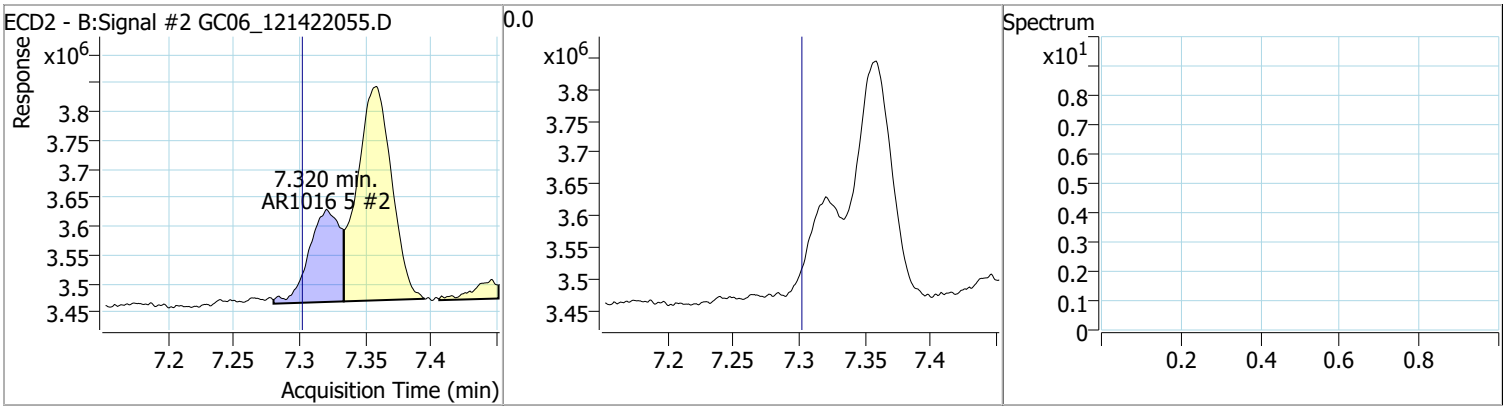
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	186.0292	7.08	0.11	2909531				



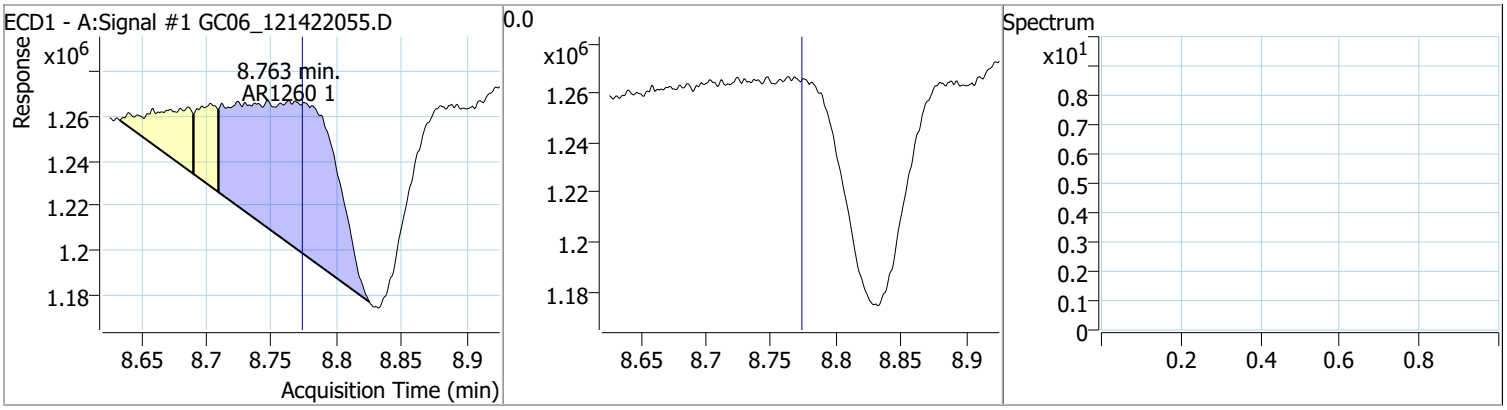
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	18.8599	7.08	-0.08	210583				



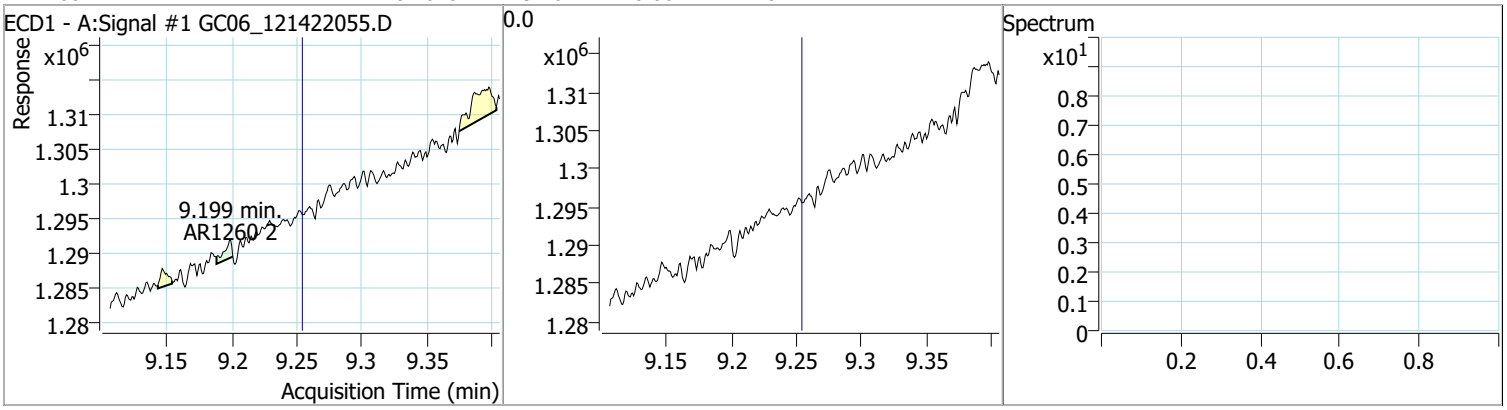
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	28.9239	7.32	0.02	262512				



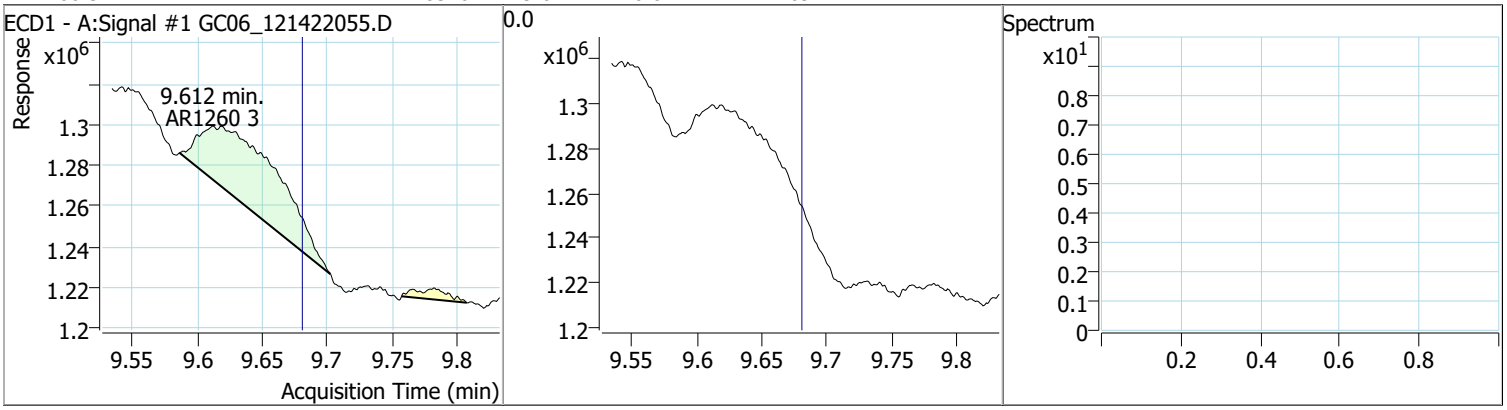
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	79.6090	8.76	-0.01	338054				



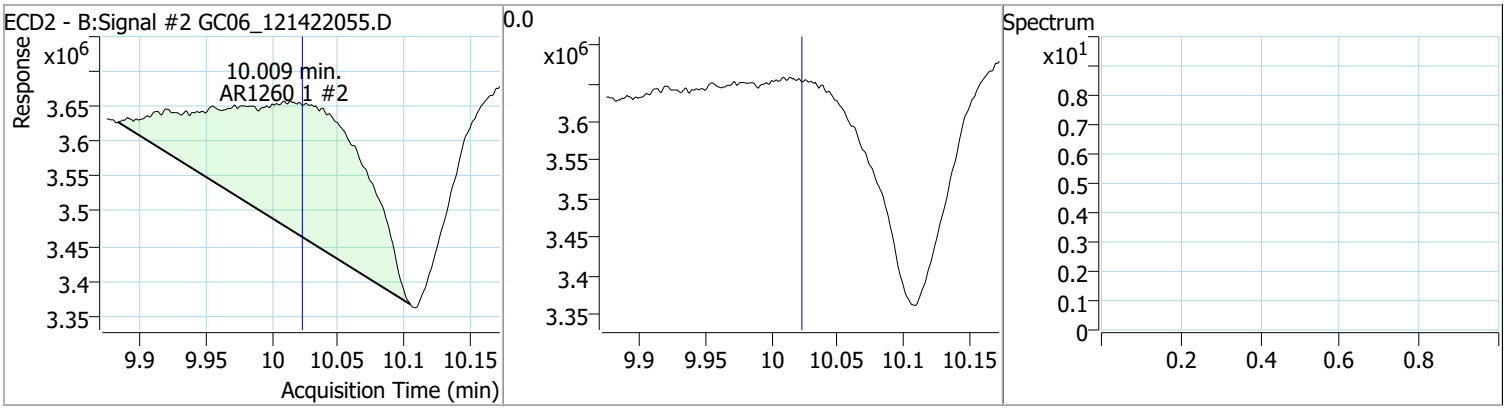
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.1610	9.20	-0.06	1042				



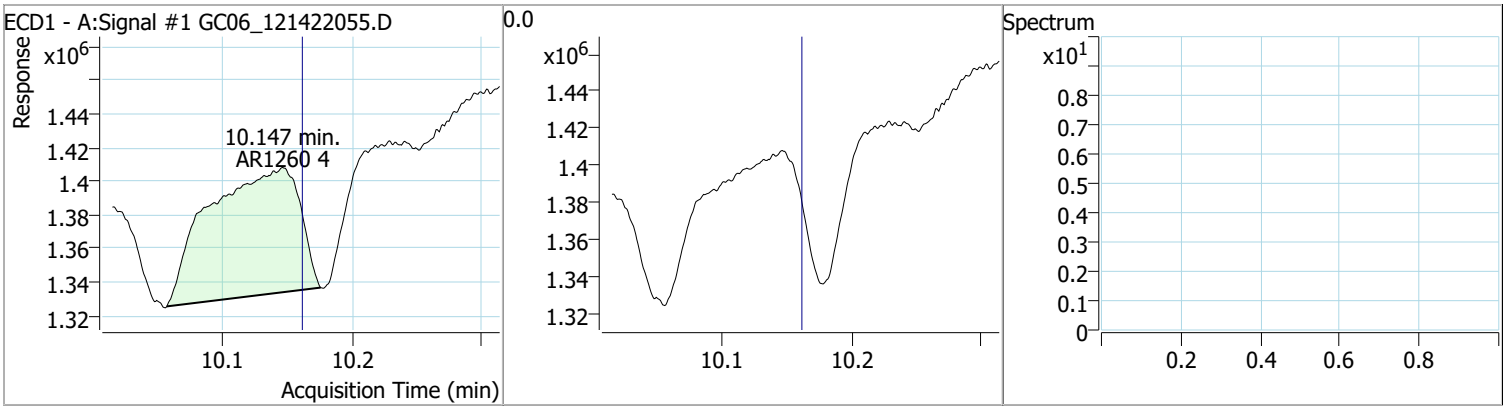
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	21.8326	9.61	-0.07	147697				



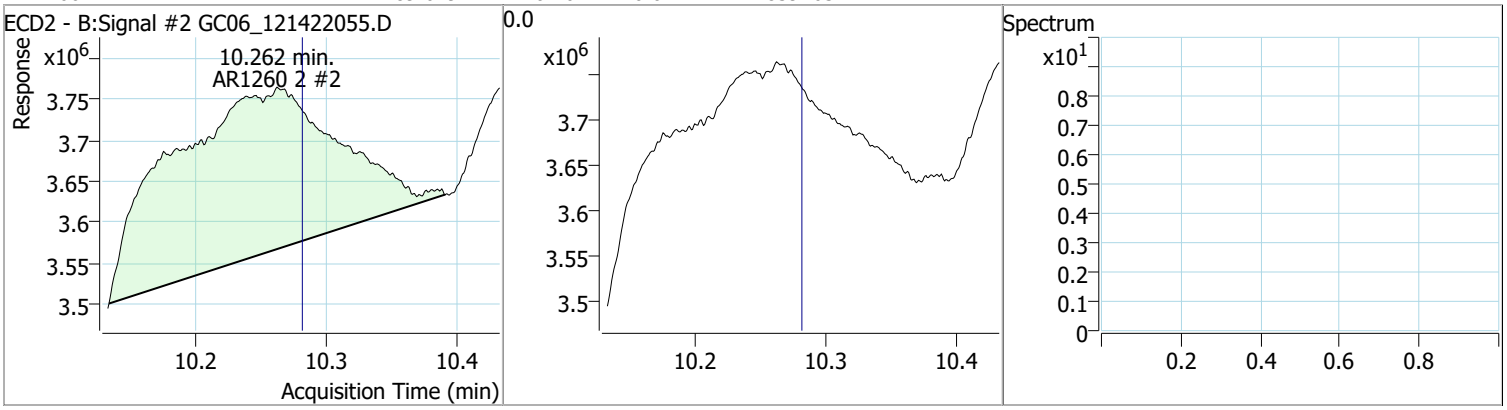
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	90.8952	10.01	-0.02	1551946				



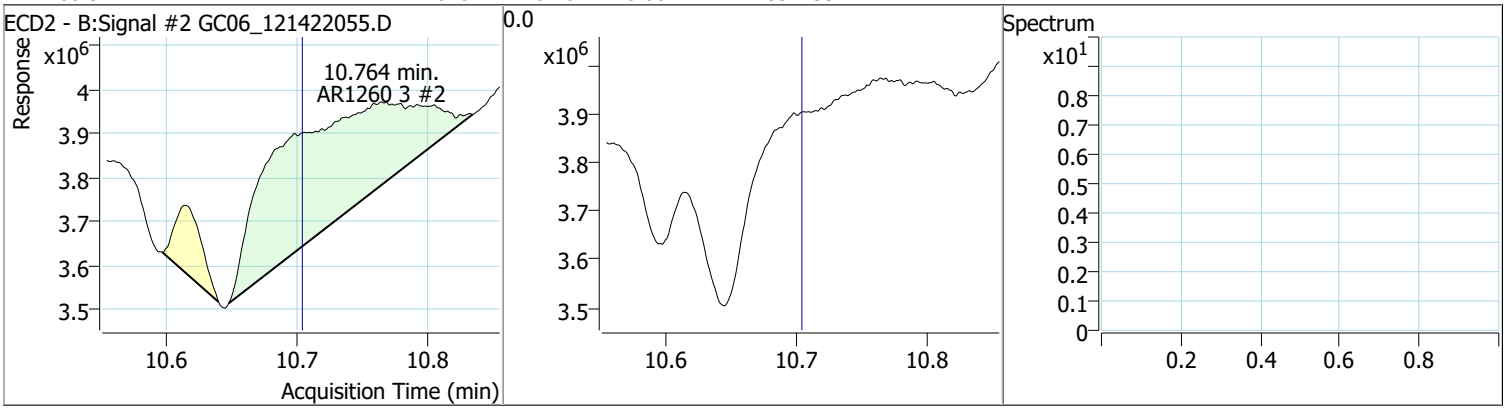
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	87.1239	10.15	-0.02	366471				



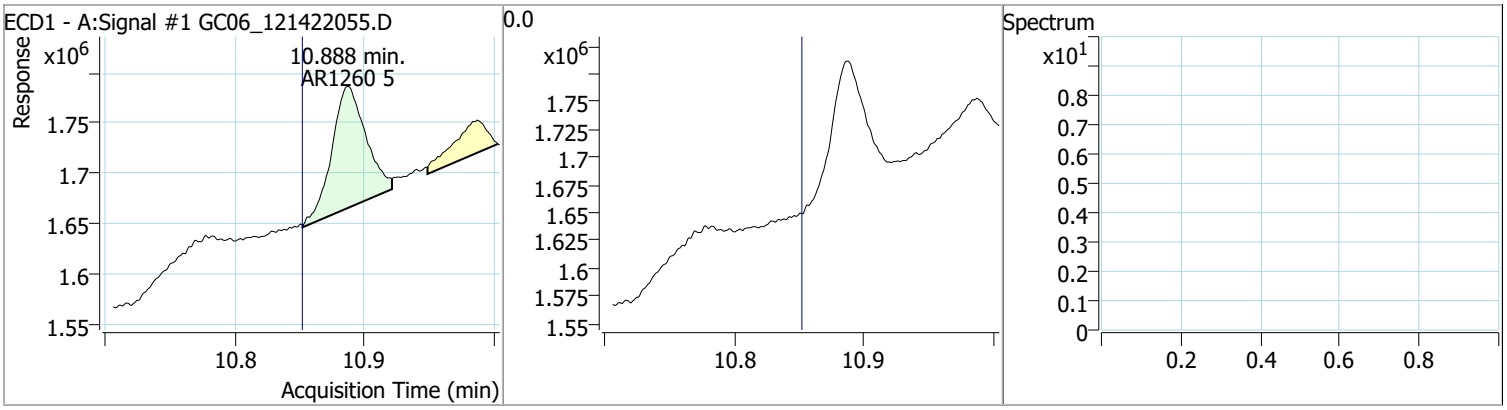
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	89.6797	10.26	-0.02	1839763				



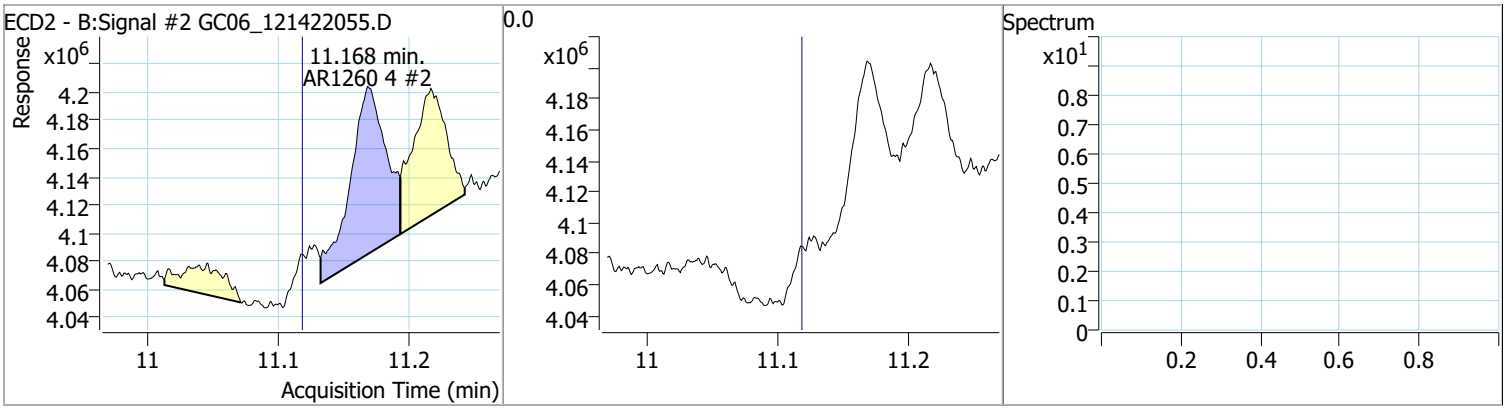
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	71.4028	10.76	0.06	1854133				



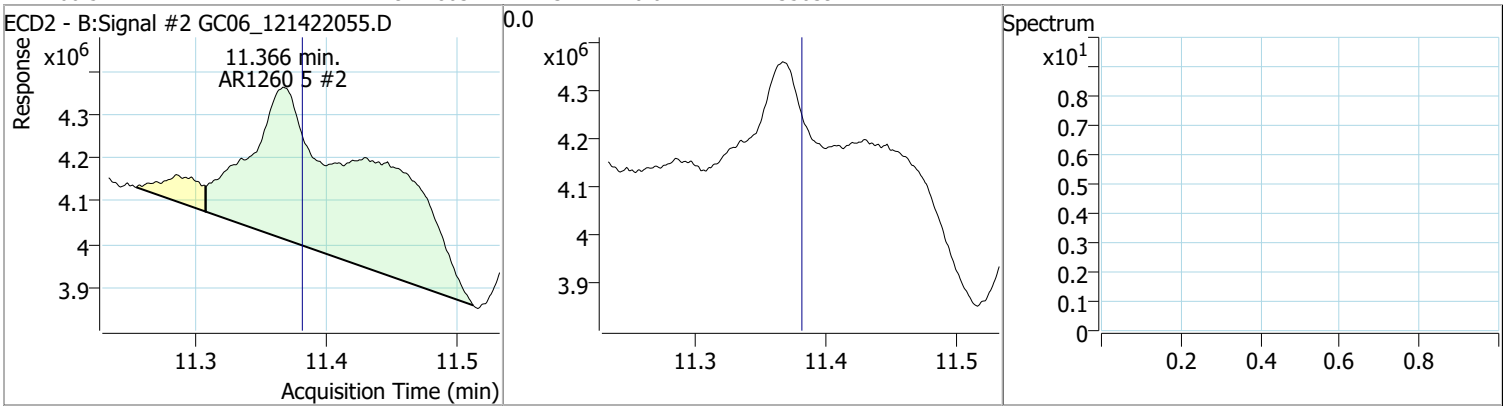
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	11.4155	10.89	0.03	222283				



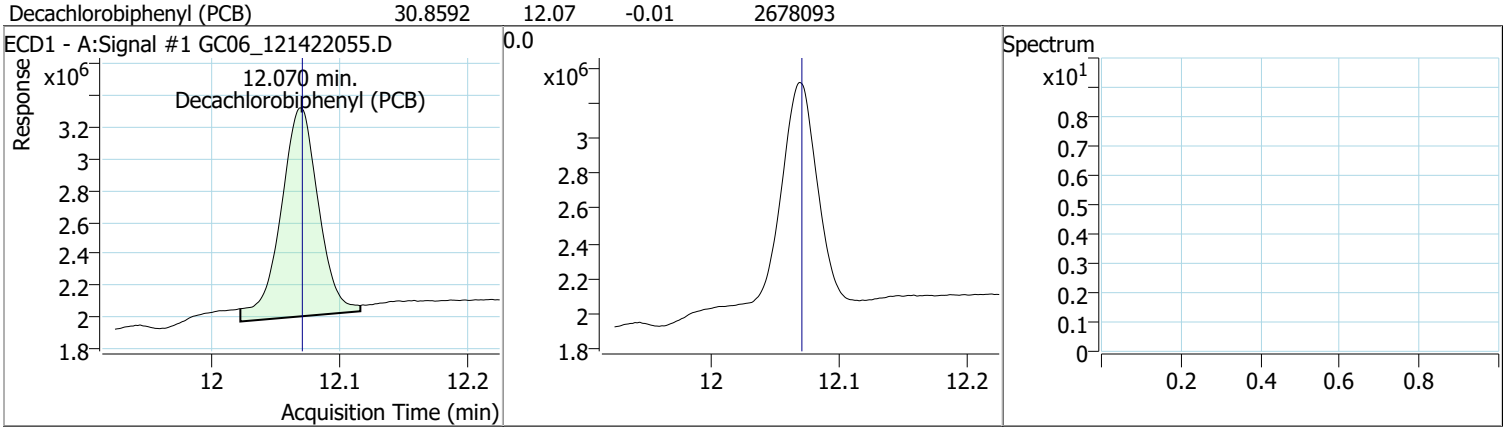
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	0.0000	11.17	0.05	227041				



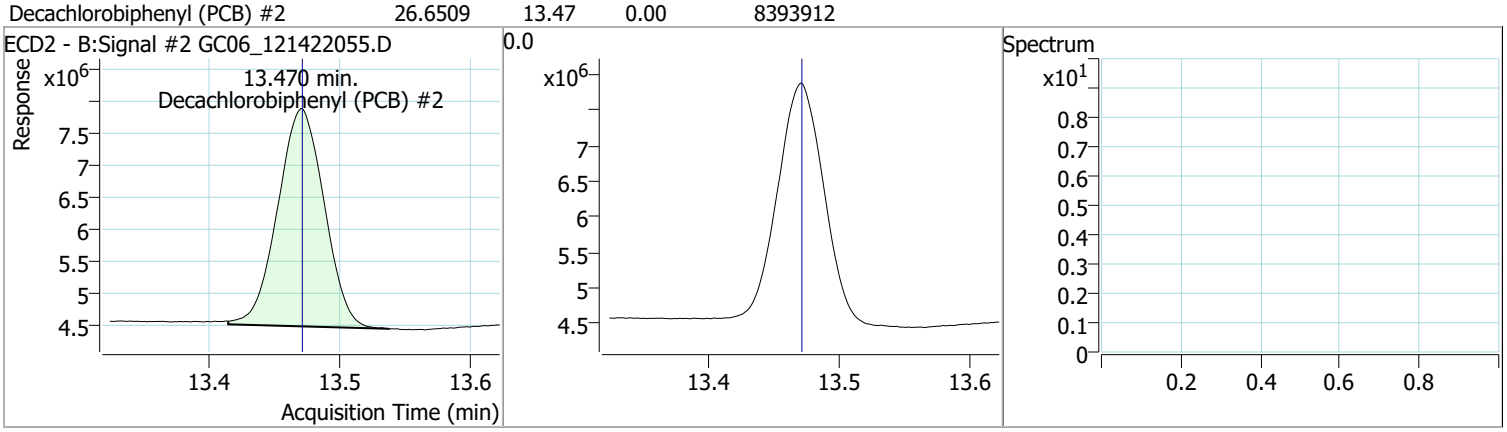
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	94.1803	11.37	-0.02	2435039				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	30.8592	12.07	-0.01	2678093				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	26.6509	13.47	0.00	8393912				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	474713-003	Client ID:	ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-P-LA
Seqnum:	452501809056	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_121422056	Batch:	303182	Time:	15-DEC-2022 04:53
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	86.46	~~0.86~~ FP	2.0	81%	0.50		x u
Aroclor-1016 Peak # 1	B	81.08	0.81	0.11	154%			
Aroclor-1016 Peak # 2	B	123.7	1.24	ND	215%			
Aroclor-1016 Peak # 3	B	203.1	2.03	0.93	75%			
Aroclor-1016 Peak # 4	B	0.8829	0.01	0.49	193%			
Aroclor-1016 Peak # 5	B	23.56	0.24	8.75	190%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	55.43	~~0.55~~ FP	0.52	5%	0.50		x u
Aroclor-1260 Peak # 1	B	93.16	0.93	1.21	26%			
Aroclor-1260 Peak # 2	B	96.34	0.96	0.01	197%			
Aroclor-1260 Peak # 3	B	8.631	0.09	0.19	77%			
Aroclor-1260 Peak # 4	B	-11.51	ND	1.04	250%			
Aroclor-1260 Peak # 5	B	90.53	0.91	0.17	137%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	28.83	0.5000	0.2883	58	19-121	u
Decachlorobiphenyl (PCB)	B	31.13	0.5000	0.3113	62	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_121422036)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	5560467	5233756	-5.88
1-bromo-2-nitrobenzene (PCB)	A	1170615	1088269	-7.03

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

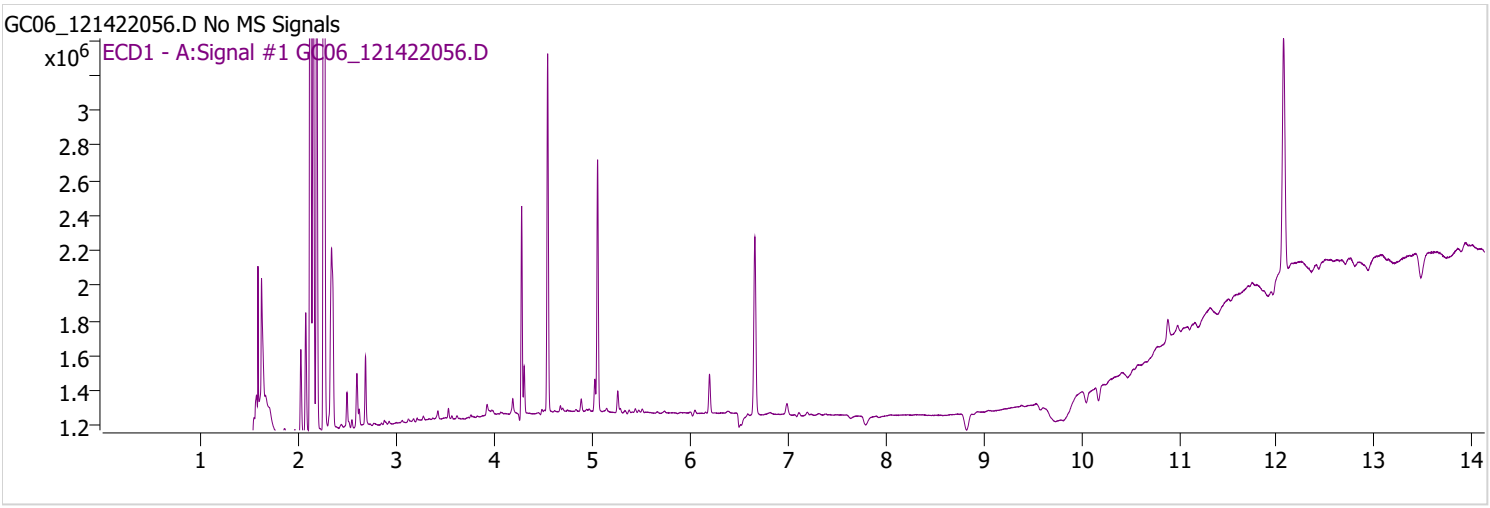
ISTD (CCV gc06_121422036)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.52	4.52	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.28	4.28	0.00

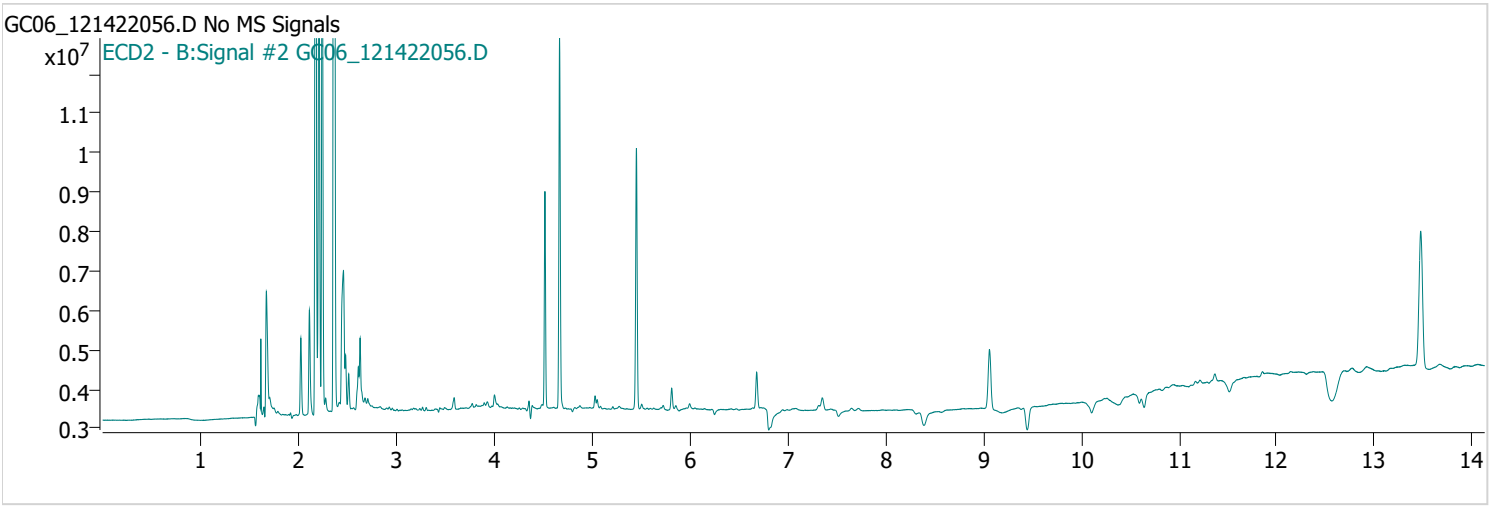
Analyst: MES 12/15/22

Reviewer: LW 12/15/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_121422056.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/15/2022 4:53:03 AM
Sample Name	474713-003, 303182, 1	Instrument	SVOA-GC06
Vial	39	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_11.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	121422PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



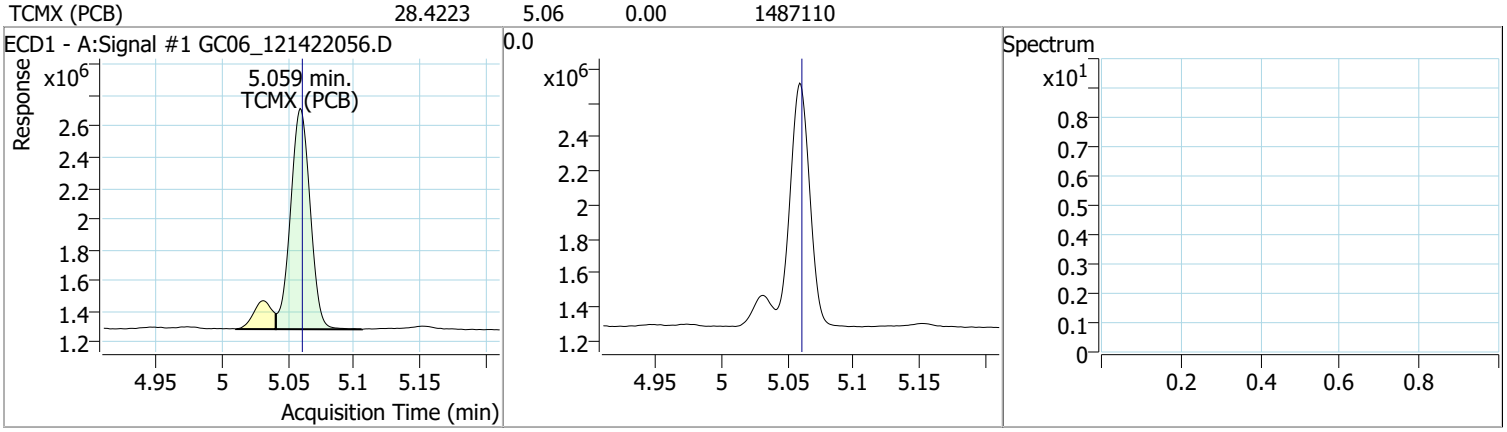


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.283	0.0	1088269.262	20.0000	ng/ml		-0.003
M 1-bromo-2-nitrobenzene (PCB) #2	4.521	0.0	5233755.984	20.0000	ng/ml		-0.002
System Monitoring Compounds							
S TCMX (PCB)	5.059	0.0	1487110.018	28.4223	ng/ml		-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 142.11%			
S TCMX (PCB) #2	5.456	0.0	7246414.096	28.8301	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 144.15%			
S Decachlorobiphenyl (PCB)	12.069	0.0	2807817.976	38.2470	ng/ml		-0.009
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 191.24%		*	
S Decachlorobiphenyl (PCB) #2	13.472	0.0	8849306.930	31.1287	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 155.64%		*	
Target Compounds							QValue

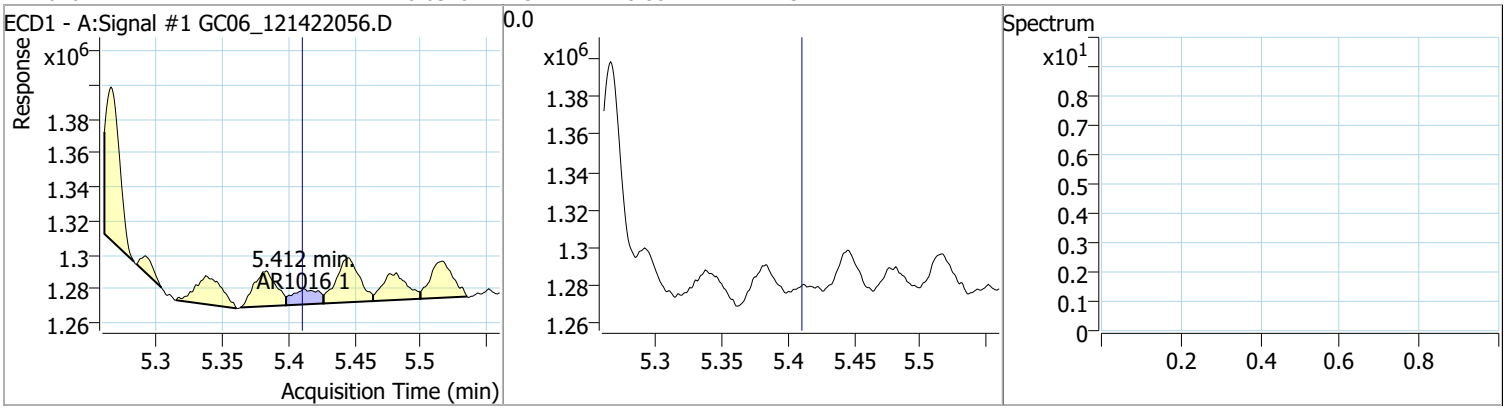
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.412	0.0	12131.718	10.6328	ng/ml	100
T AR1016 2	5.742	0.0	24707.572	0.0000	ng/ml	100
T AR1016 1 #2	6.001	0.0	441054.535	81.0828	ng/ml	100
T AR1016 3	6.203	0.0	267826.761	92.5830	ng/ml	100
T AR1016 4	6.344	0.0	108765.239	49.4349	ng/ml	100
T AR1016 2 #2	6.422	0.0	971099.059	123.6715	ng/ml	100
T AR1016 5	6.667	0.0	1550966.525	875.1927	ng/ml	100
T AR1016 3 #2	7.084	0.0	2898004.317	203.1179	ng/ml	100
T AR1016 4 #2	7.178	0.0	8993.384	0.8829	ng/ml	100
T AR1016 5 #2	7.320	0.0	195029.734	23.5559	ng/ml	100
T AR1260 1	8.733	0.0	446996.317	121.4842	ng/ml	100
T AR1260 2	9.395	0.0	3689.646	0.6579	ng/ml	100
T AR1260 3	9.613	0.0	114273.053	19.4947	ng/ml	100
T AR1260 1 #2	10.005	0.0	1451086.078	93.1641	ng/ml	100
T AR1260 4	10.151	0.0	369379.318	103.8673	ng/ml	100
T AR1260 2 #2	10.264	0.0	1802994.533	96.3425	ng/ml	100
T AR1260 3 #2	10.614	0.0	204457.608	8.6311	ng/ml	100
T AR1260 5	10.888	0.0	228410.127	16.9023	ng/ml	100
T AR1260 4 #2	11.171	0.0	157880.155	0.0000	ng/ml	100
T AR1260 5 #2	11.367	0.0	2149654.169	90.5389	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

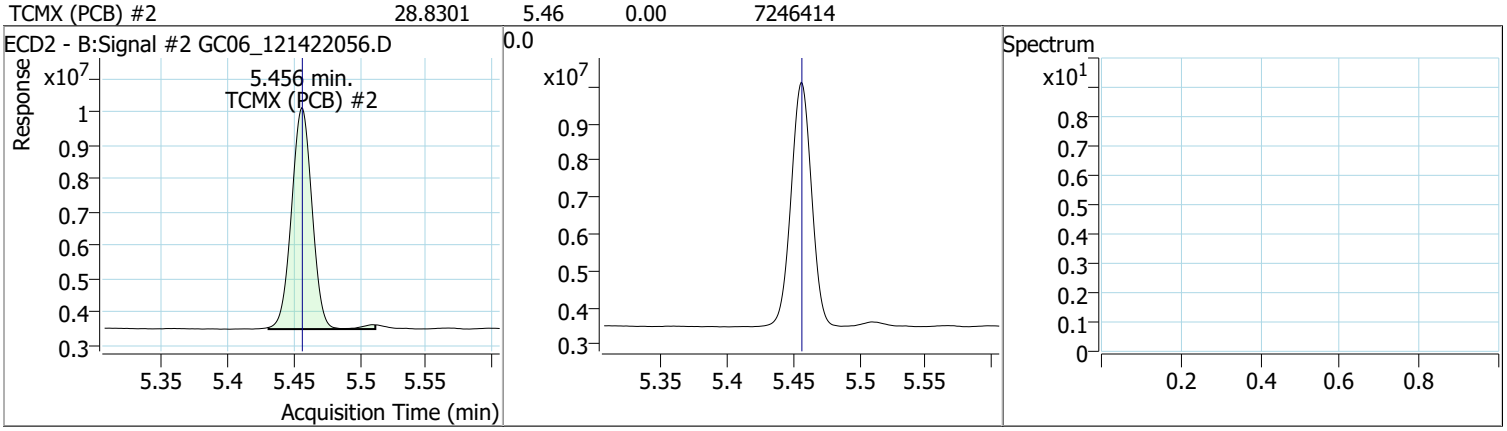
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	28.4223	5.06	0.00	1487110				



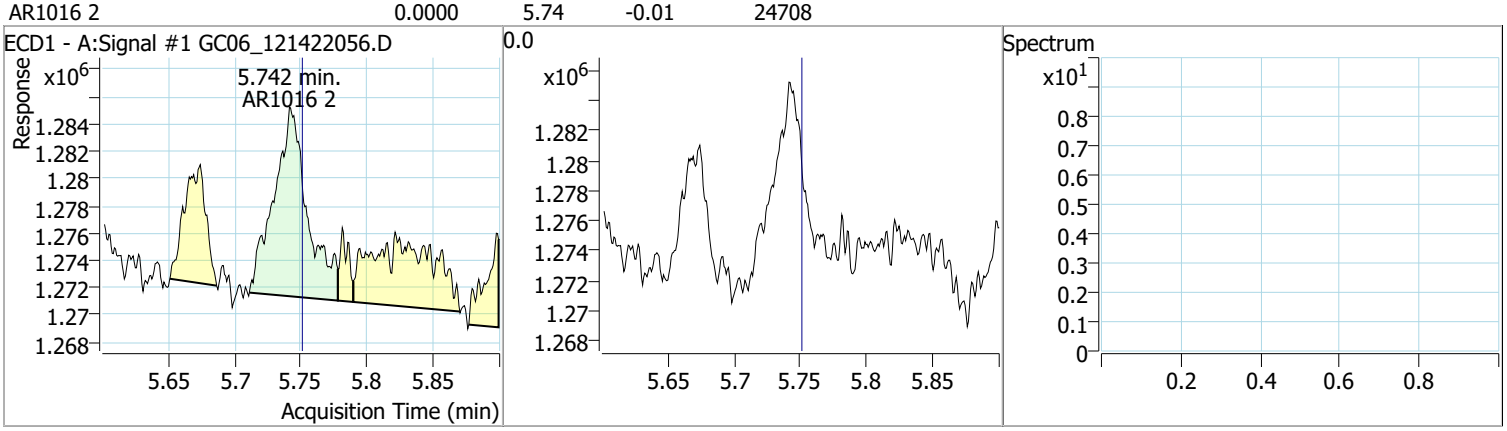
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	10.6328	5.41	0.00	12132				



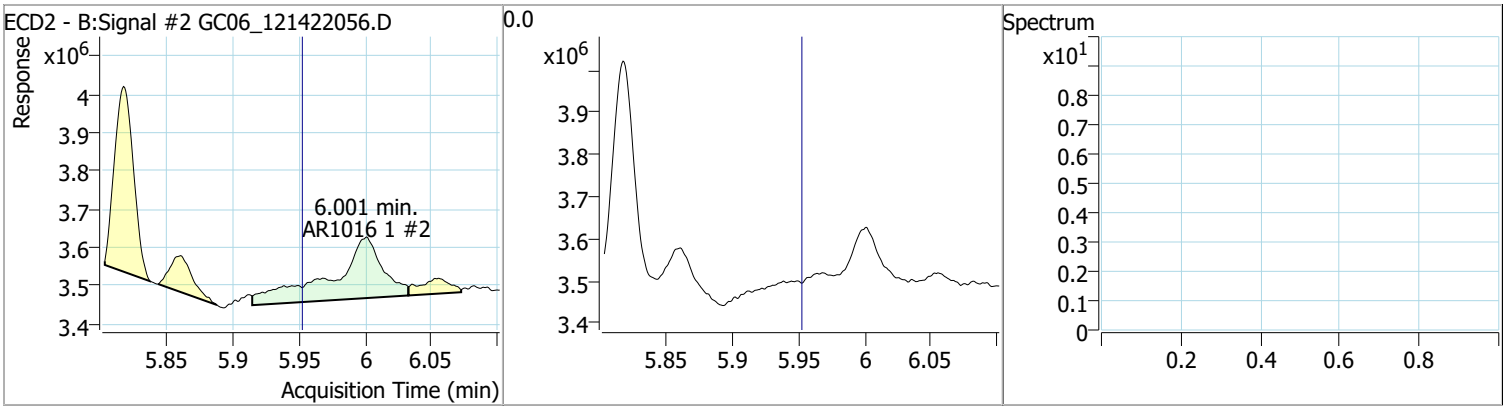
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	28.8301	5.46	0.00	7246414				



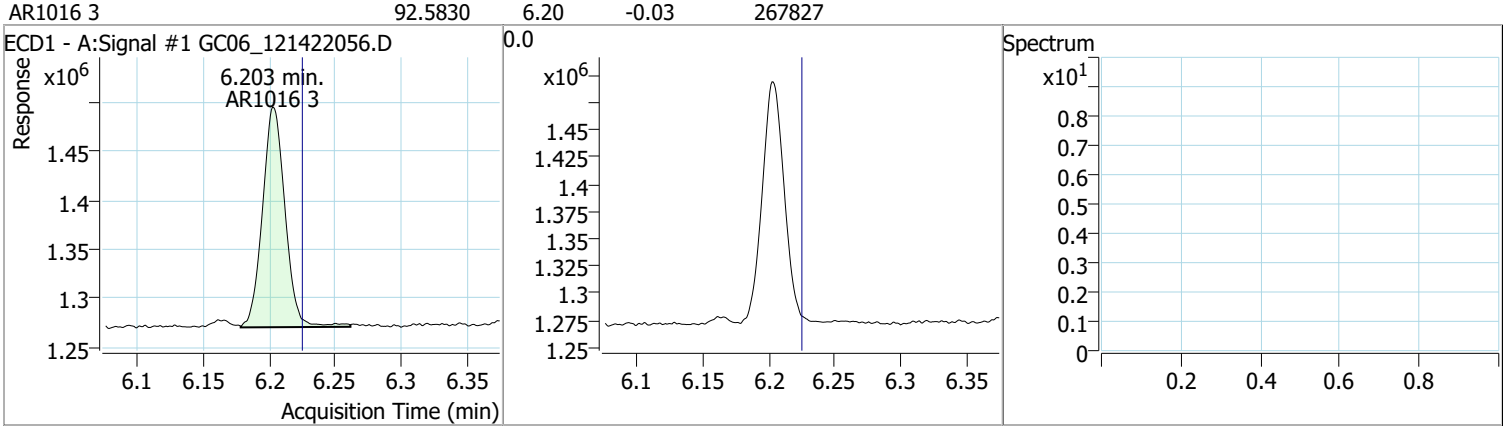
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.74	-0.01	24708				



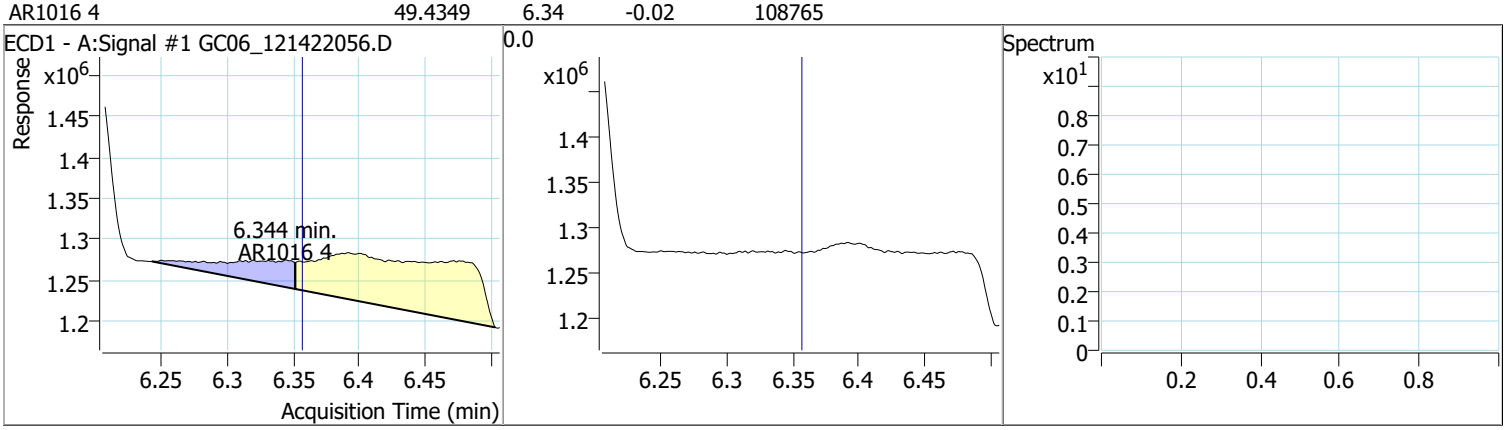
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	81.0828	6.00	0.05	441055				



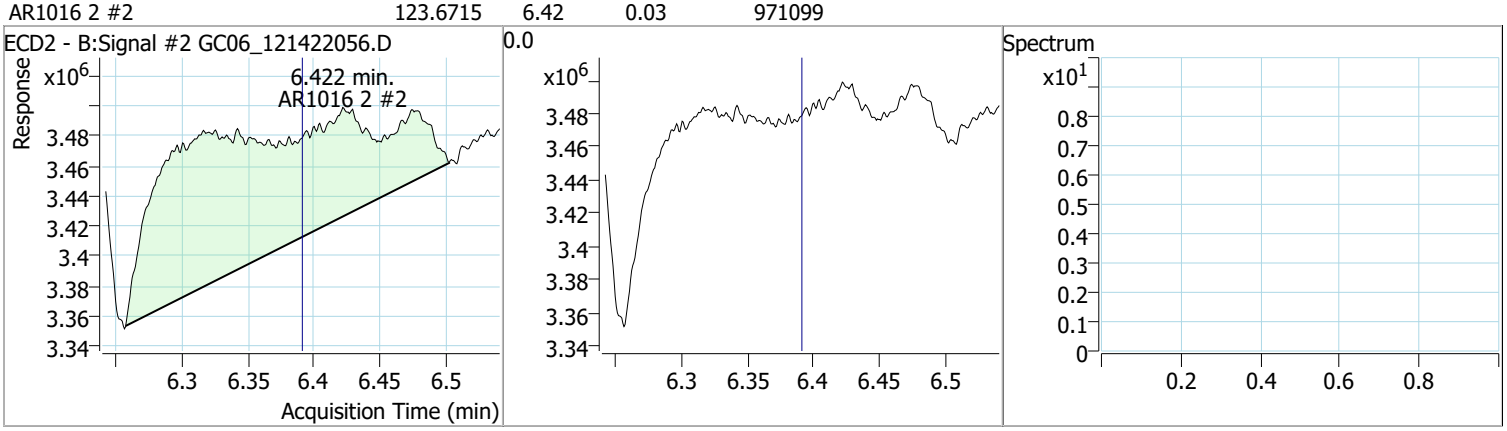
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	92.5830	6.20	-0.03	267827				



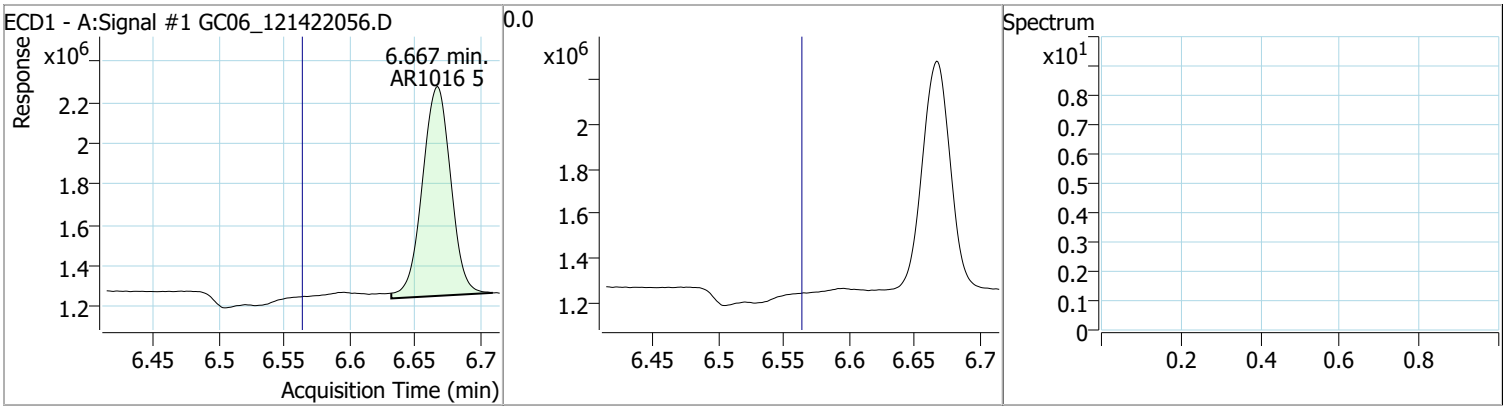
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	49.4349	6.34	-0.02	108765				



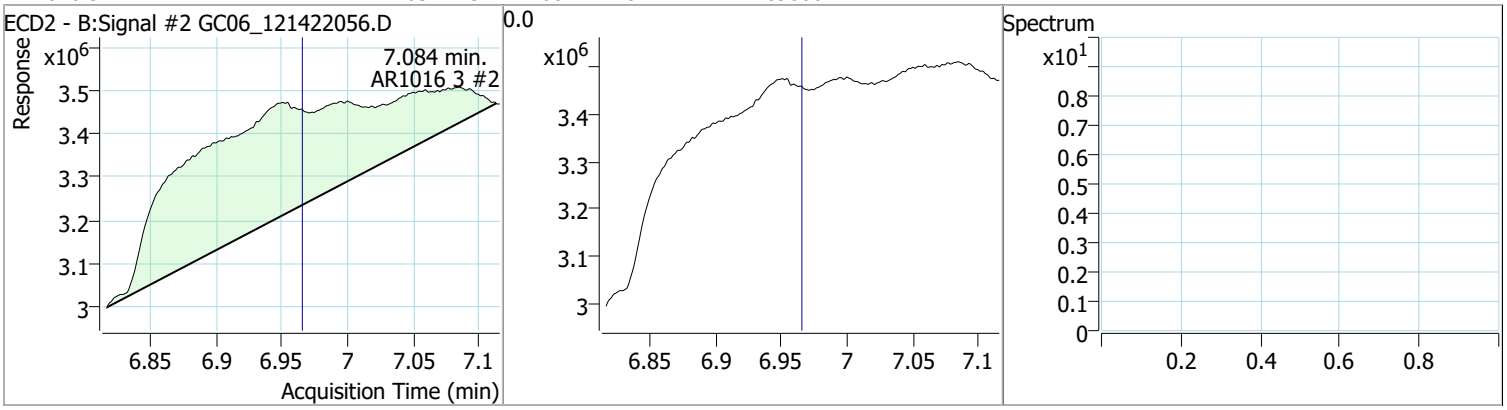
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	123.6715	6.42	0.03	971099				



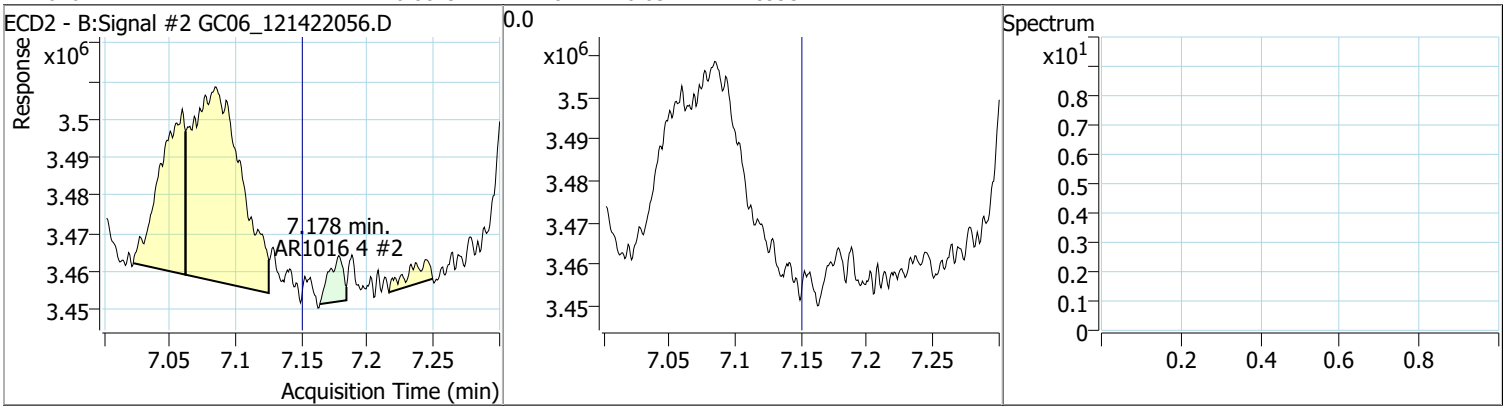
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	875.1927	6.67	0.10	1550967				



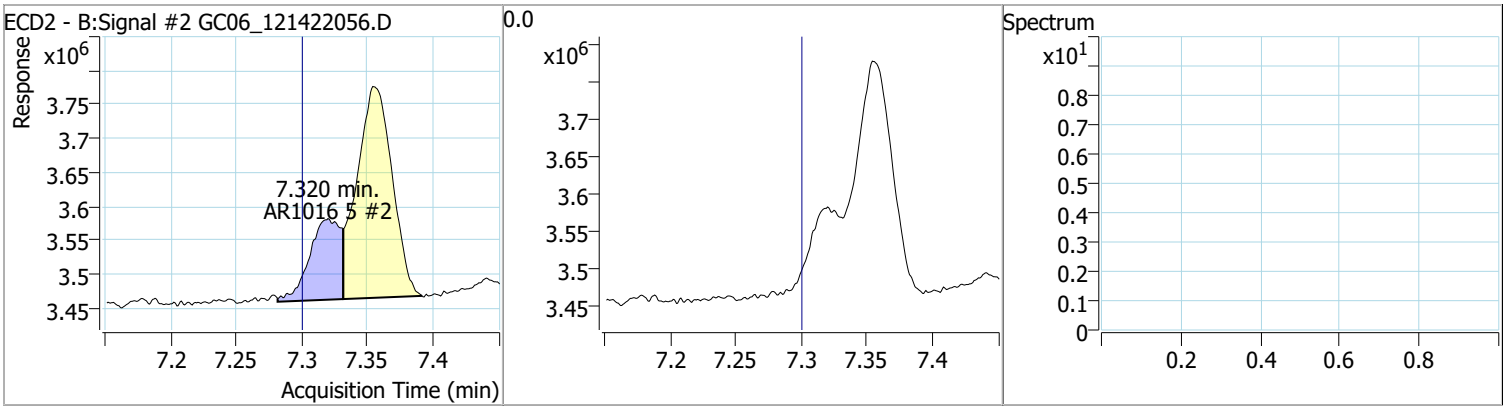
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	203.1179	7.08	0.12	2898004				



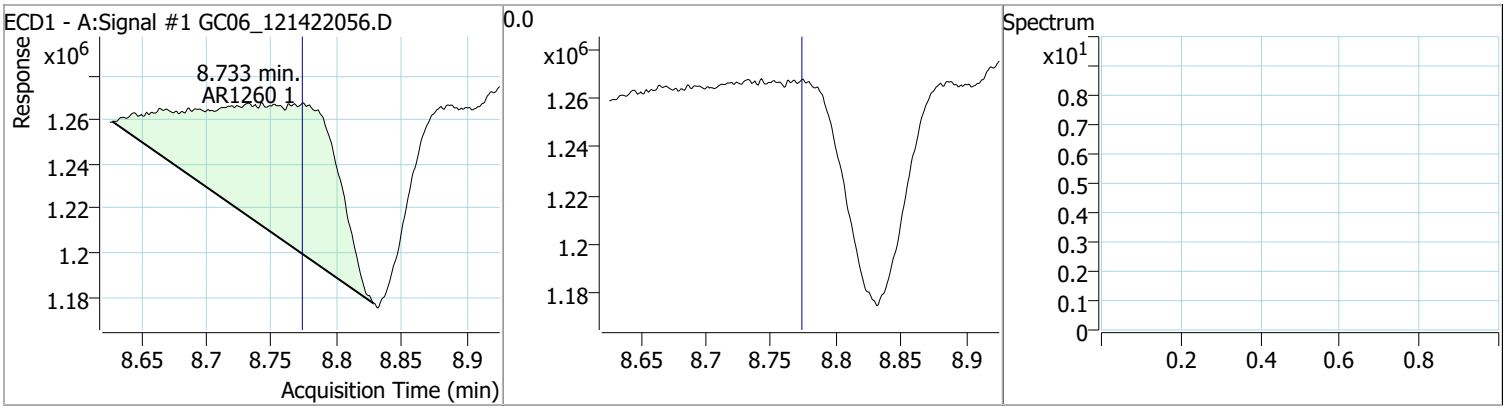
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	0.8829	7.18	0.03	8993				



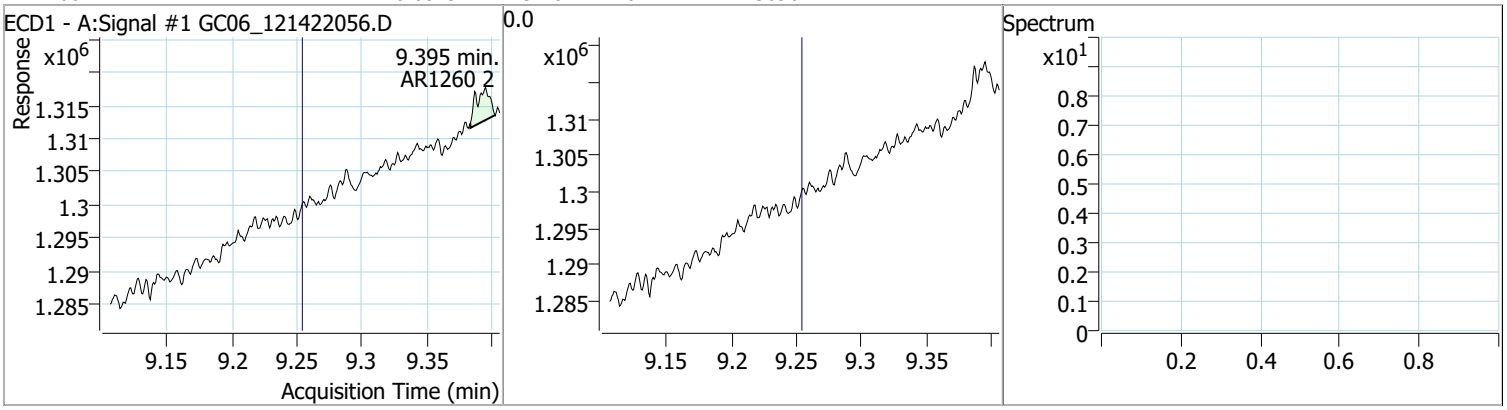
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	23.5559	7.32	0.02	195030				



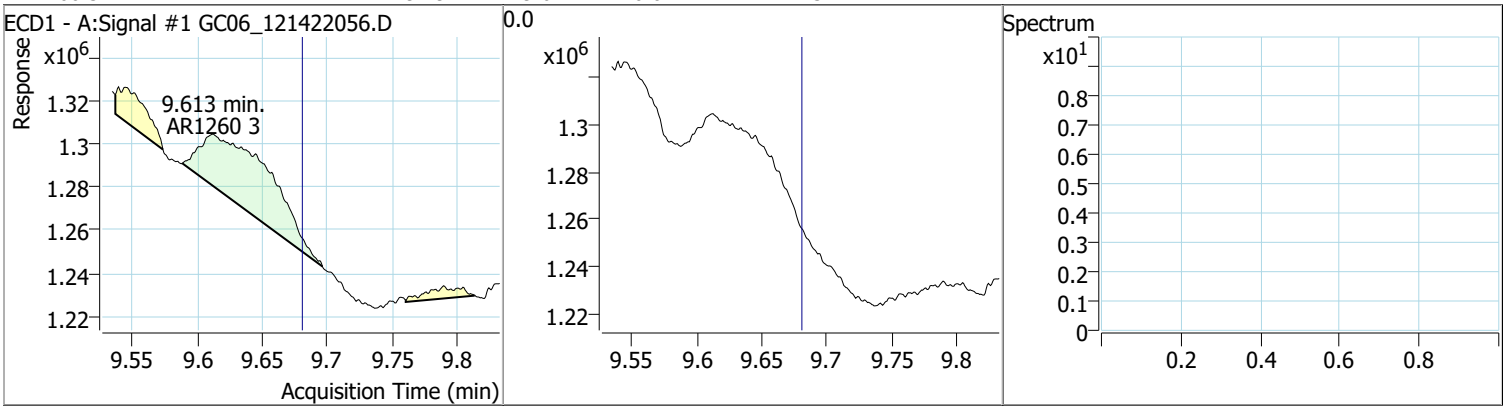
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	121.4842	8.73	-0.05	446996				



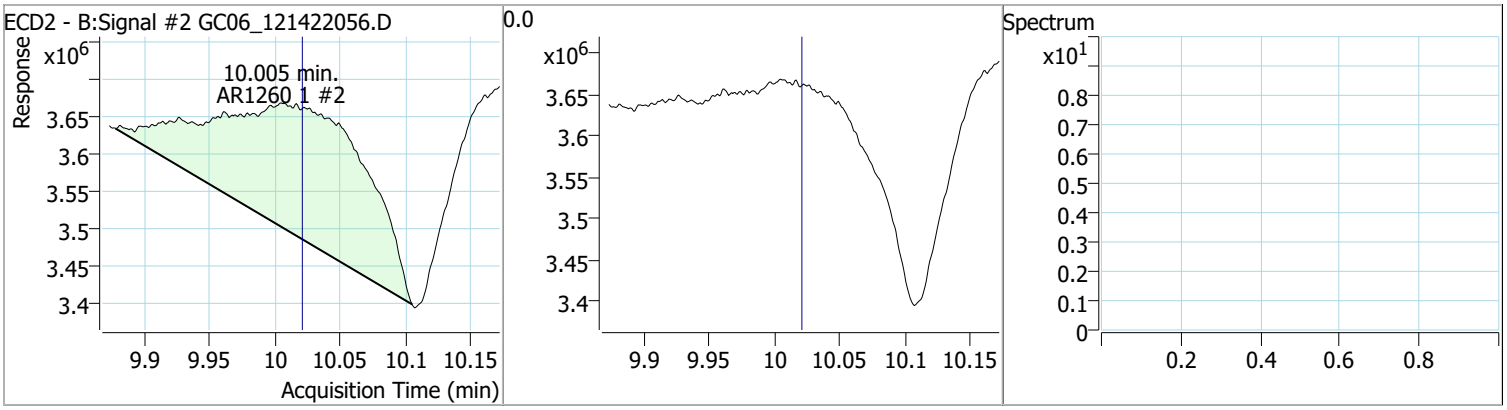
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.6579	9.40	0.14	3690				



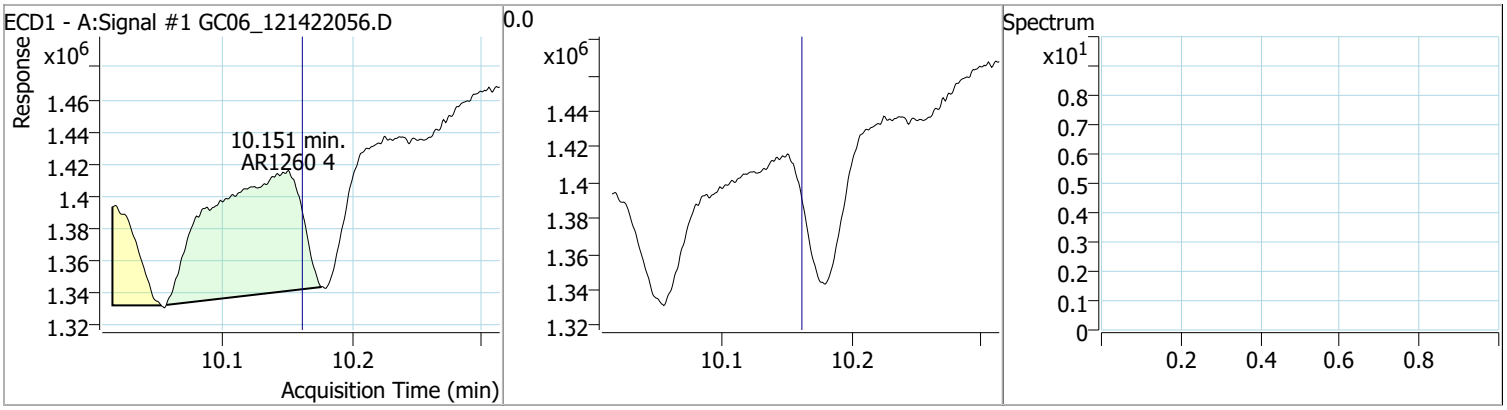
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	19.4947	9.61	-0.07	114273				



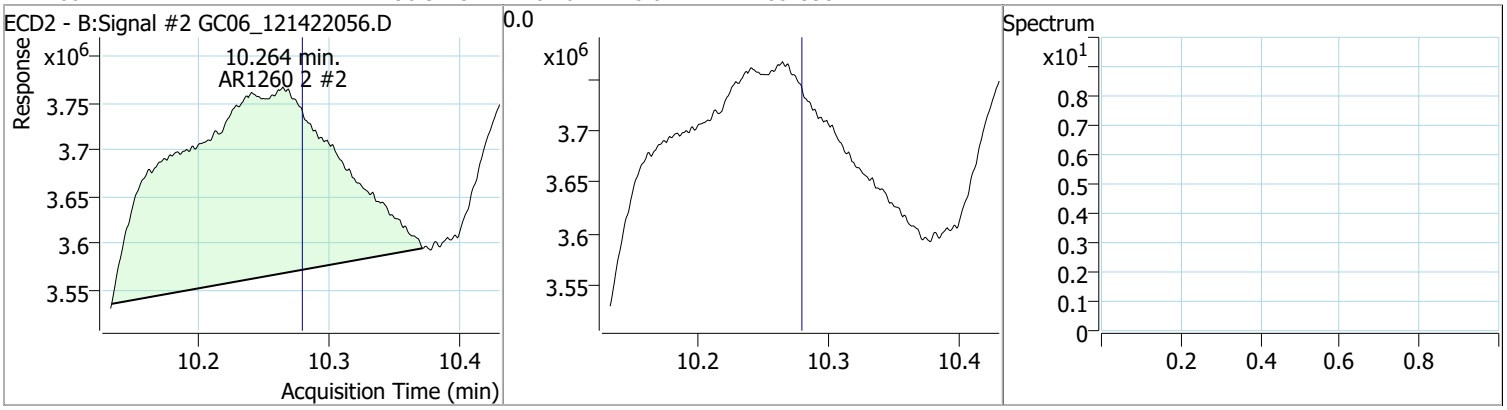
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	93.1641	10.01	-0.02	1451086				



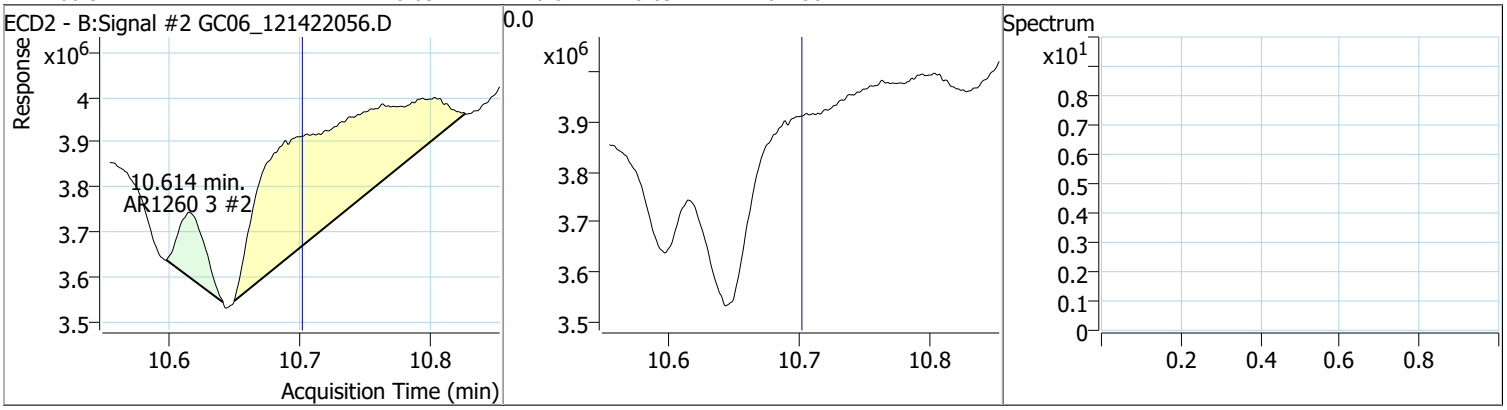
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	103.8673	10.15	-0.02	369379				



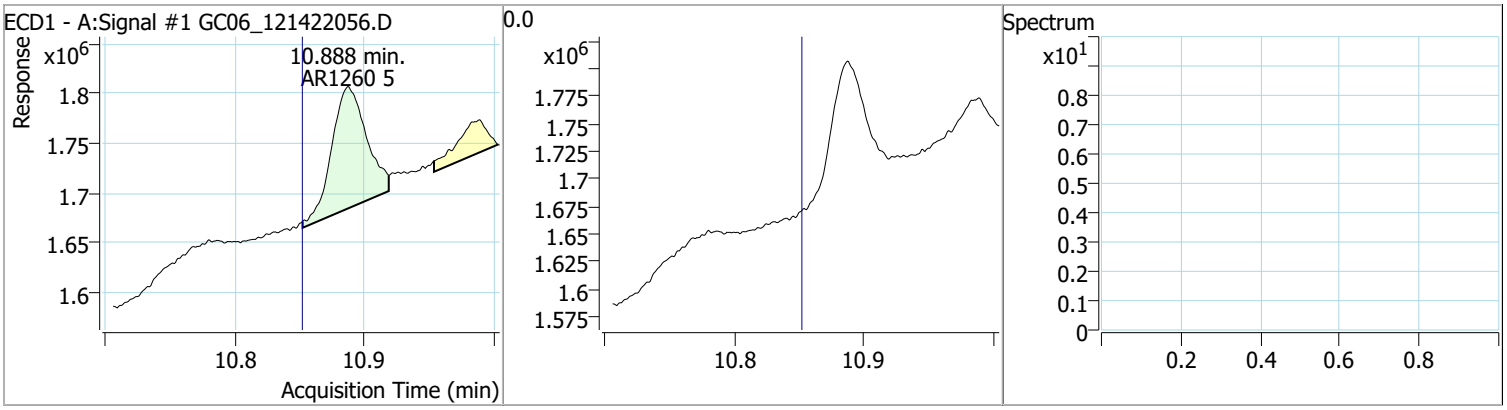
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	96.3425	10.26	-0.02	1802995				



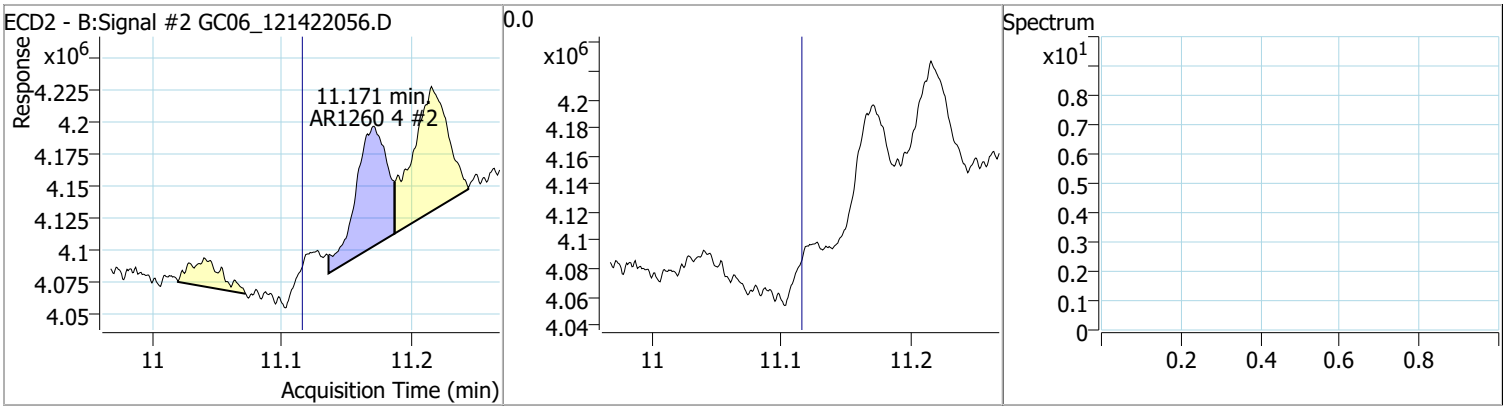
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	8.6311	10.61	-0.09	204458				



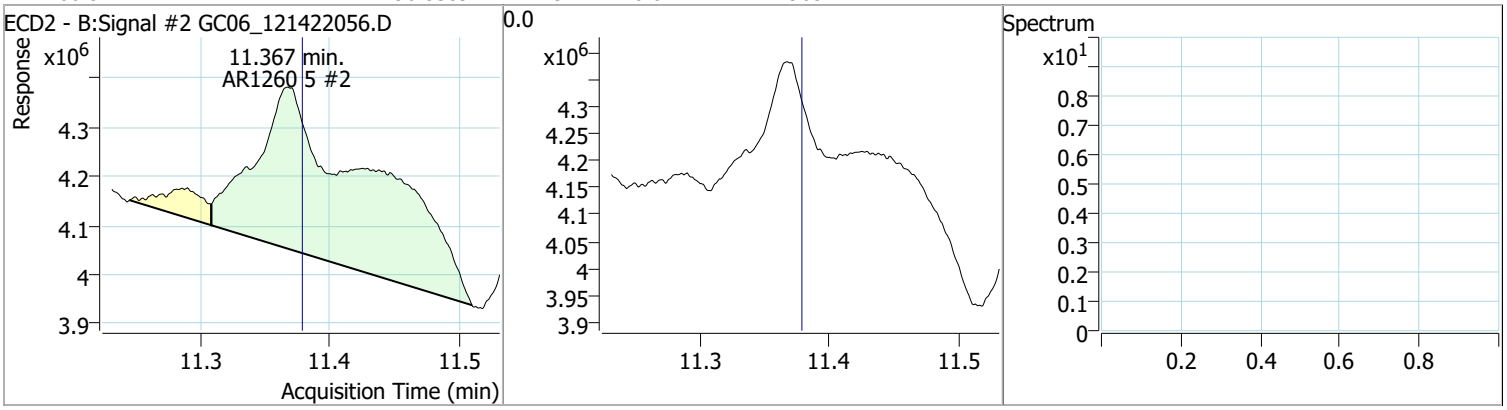
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	16.9023	10.89	0.03	228410				



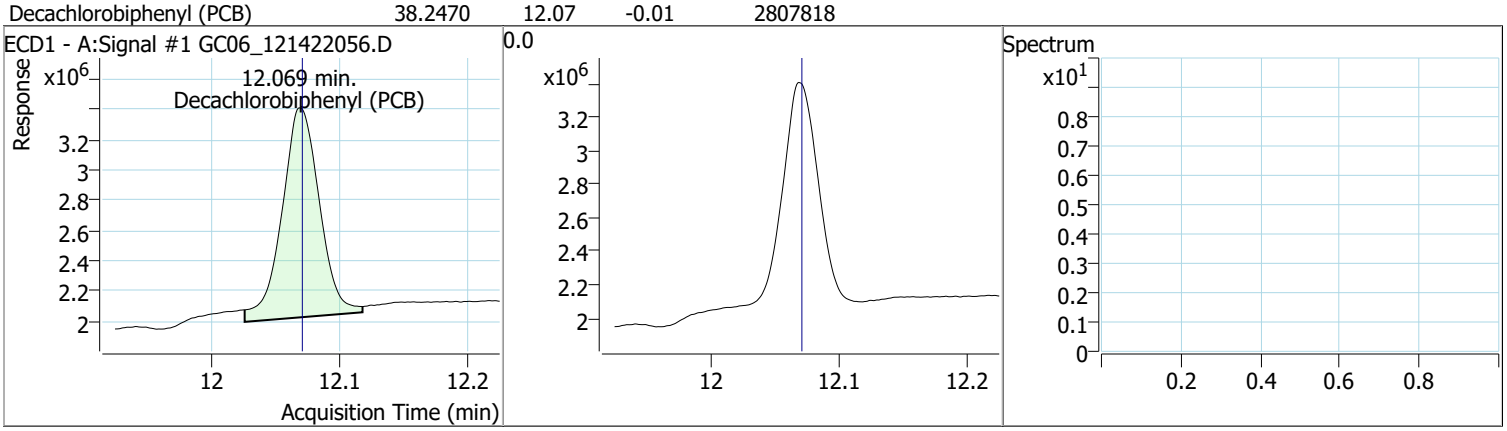
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	0.0000	11.17	0.05	157880				



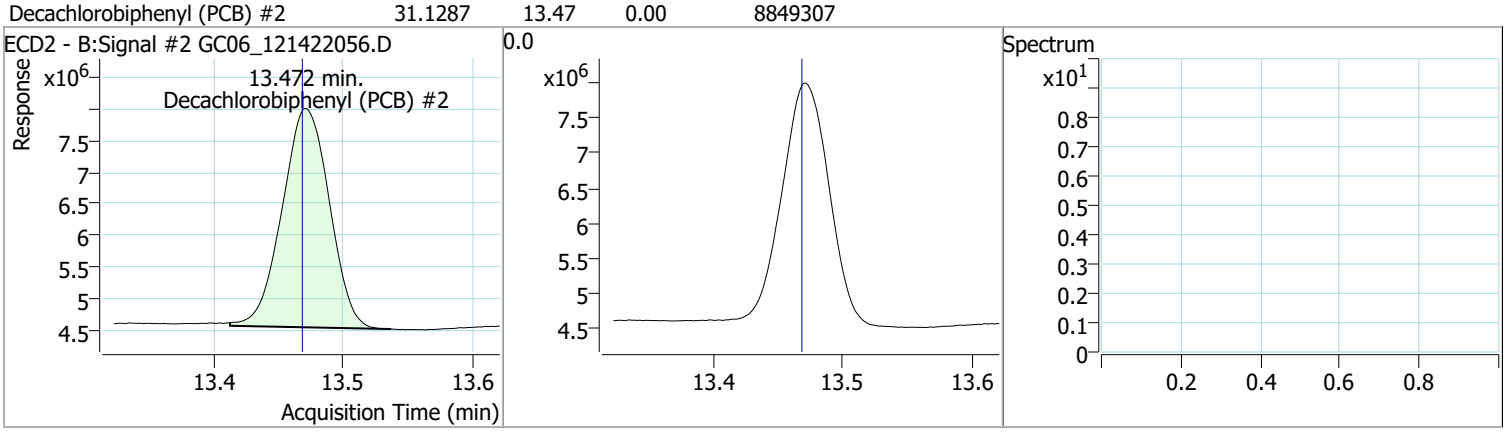
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	90.5389	11.37	-0.02	2149654				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	38.2470	12.07	-0.01	2807818				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	31.1287	13.47	0.00	8849307				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	474713-004	Client ID:	ARCH-C5W-INT-4.5 TO 5.5-221209-P-WF
Seqnum:	452501809057	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_121422057	Batch:	303182	Time:	15-DEC-2022 05:11
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	262.6	~~2.6~~ ~~FP~~	3.9	38%	0.50		x u
Aroclor-1016 Peak # 1	B	980.2	9.80	9.47	3%			
Aroclor-1016 Peak # 2	B	101.7	1.02	ND	216%			
Aroclor-1016 Peak # 3	B	182.4	1.82	1.35	30%			
Aroclor-1016 Peak # 4	B	24.79	0.25	2.66	166%			
Aroclor-1016 Peak # 5	B	23.75	0.24	5.85	184%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	32.94	ND	0.48	36%	0.50		u
Aroclor-1260 Peak # 1	B	22.51	0.23	1.00	127%			
Aroclor-1260 Peak # 2	B	74.34	0.74	ND				
Aroclor-1260 Peak # 3	B	8.628	0.09	0.16	63%			
Aroclor-1260 Peak # 4	B	-12.92	ND	0.93	264%			
Aroclor-1260 Peak # 5	B	72.14	0.72	0.28	88%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	25.50	0.5000	0.2550	51	19-121	u
Decachlorobiphenyl (PCB)	B	26.17	0.5000	0.2617	52	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_121422036)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	5560467	5875509	5.67
1-bromo-2-nitrobenzene (PCB)	A	1170615	1195568	2.13

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

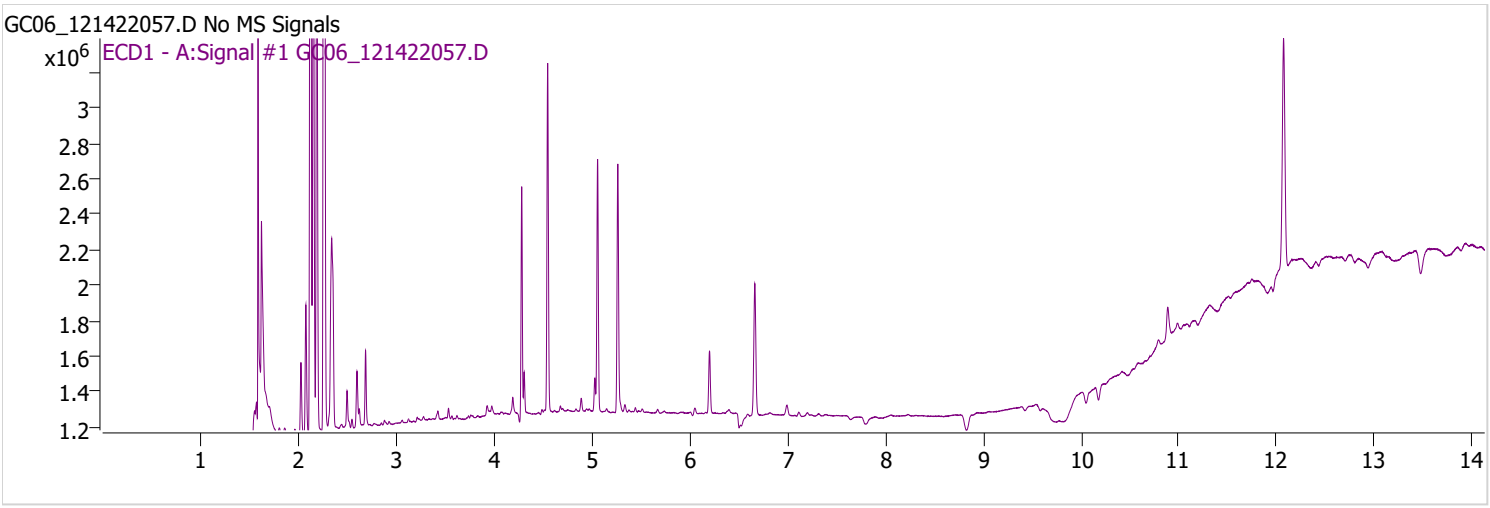
ISTD (CCV gc06_121422036)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.52	4.52	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.28	4.28	0.00

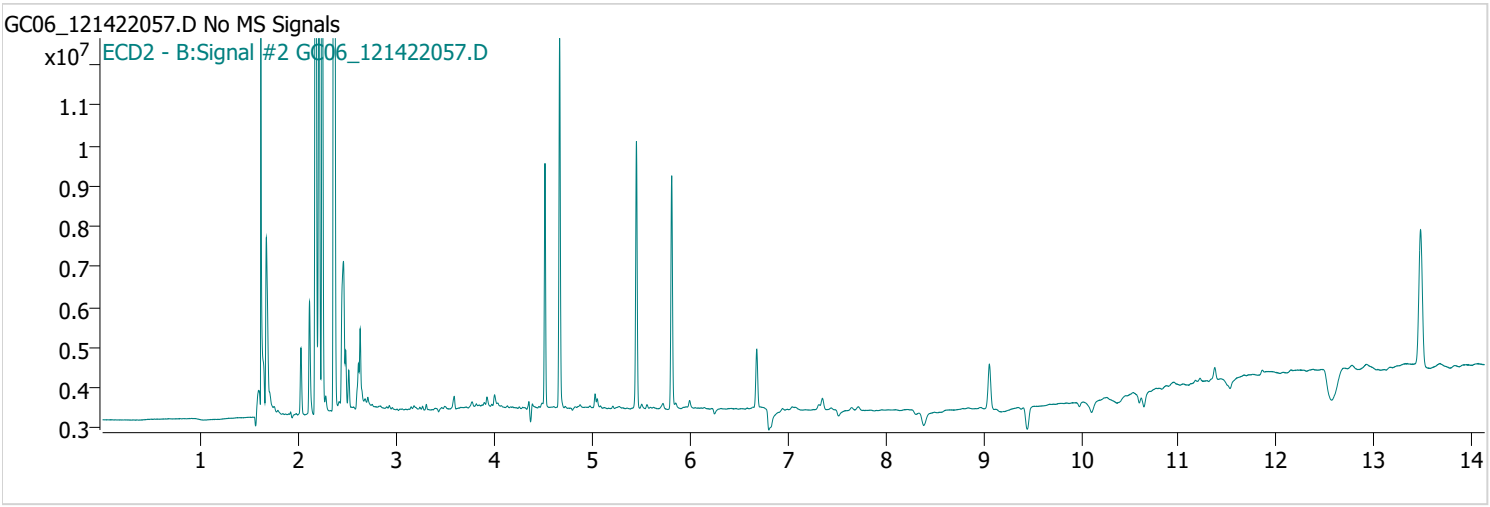
Analyst: MES 12/15/22

Reviewer: LW 12/15/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_121422057.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/15/2022 5:11:21 AM
Sample Name	474713-004, 303182, 1	Instrument	SVOA-GC06
Vial	40	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_11.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	121422PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



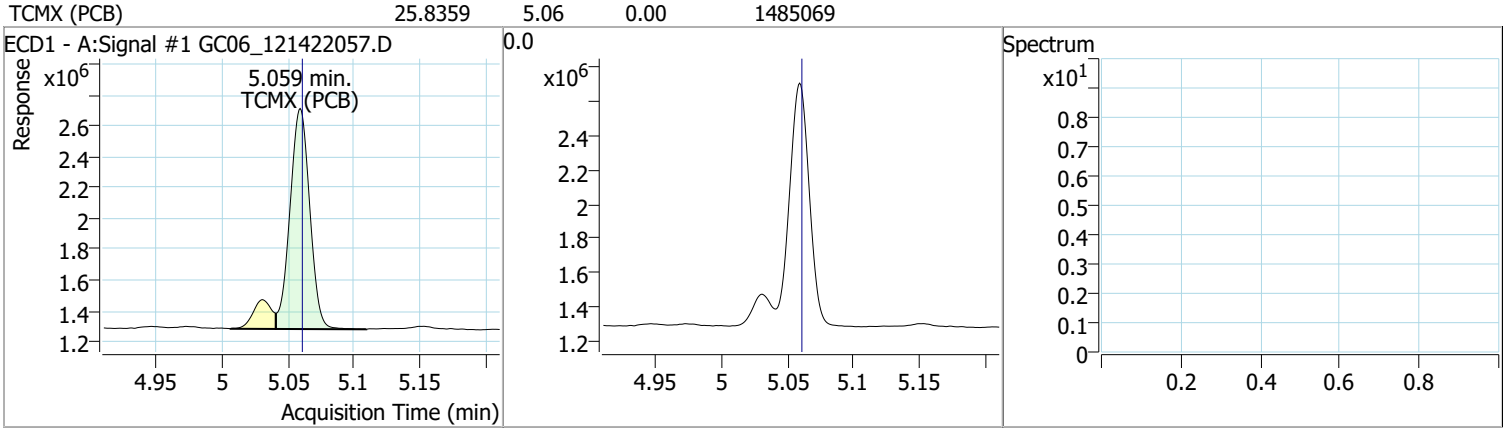


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.283	0.0	1195568.315	20.0000	ng/ml		-0.003
M 1-bromo-2-nitrobenzene (PCB) #2	4.522	0.0	5875509.447	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.059	0.0	1485068.866	25.8359	ng/ml		-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 129.18%			
S TCMX (PCB) #2	5.456	0.0	7194434.002	25.4969	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 127.48%			
S Decachlorobiphenyl (PCB)	12.070	0.0	2795283.365	34.2536	ng/ml		-0.008
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 171.27%		*	
S Decachlorobiphenyl (PCB) #2	13.470	0.0	8452577.675	26.1703	ng/ml		-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 130.85%			
Target Compounds							QValue

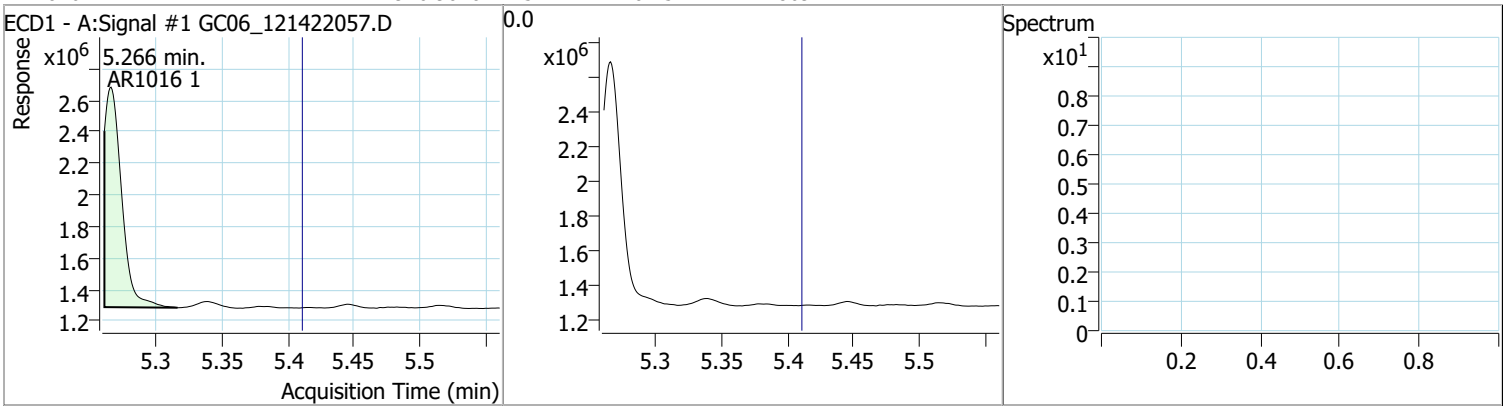
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.266	0.0	1186910.924	946.9020	ng/ml	100
T AR1016 2	5.741	0.0	28520.691	0.0000	ng/ml	100
T AR1016 1 #2	5.817	0.0	5985720.251	980.2140	ng/ml	100
T AR1016 3	6.203	0.0	429558.693	135.1643	ng/ml	100
T AR1016 4	6.402	0.0	642870.341	265.9676	ng/ml	100
T AR1016 2 #2	6.425	0.0	896848.228	101.7403	ng/ml	100
T AR1016 5	6.666	0.0	1138483.079	584.7764	ng/ml	100
T AR1016 3 #2	7.052	0.0	2922214.629	182.4439	ng/ml	100
T AR1016 4 #2	7.052	0.0	283425.712	24.7864	ng/ml	100
T AR1016 5 #2	7.322	0.0	220708.883	23.7458	ng/ml	100
T AR1260 1	8.767	0.0	404696.787	100.1169	ng/ml	100
T AR1260 2	0.000		0	N.D.		
T AR1260 3	9.609	0.0	106227.751	16.4958	ng/ml	100
T AR1260 1 #2	10.020	0.0	393562.889	22.5080	ng/ml	100
T AR1260 4	10.143	0.0	369202.917	93.1079	ng/ml	100
T AR1260 2 #2	10.259	0.0	1561824.144	74.3402	ng/ml	100
T AR1260 3 #2	10.615	0.0	229434.470	8.6276	ng/ml	100
T AR1260 5	10.888	0.0	330804.134	28.0438	ng/ml	100
T AR1260 4 #2	11.168	0.0	156698.638	0.0000	ng/ml	100
T AR1260 5 #2	11.368	0.0	2006762.900	72.1461	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

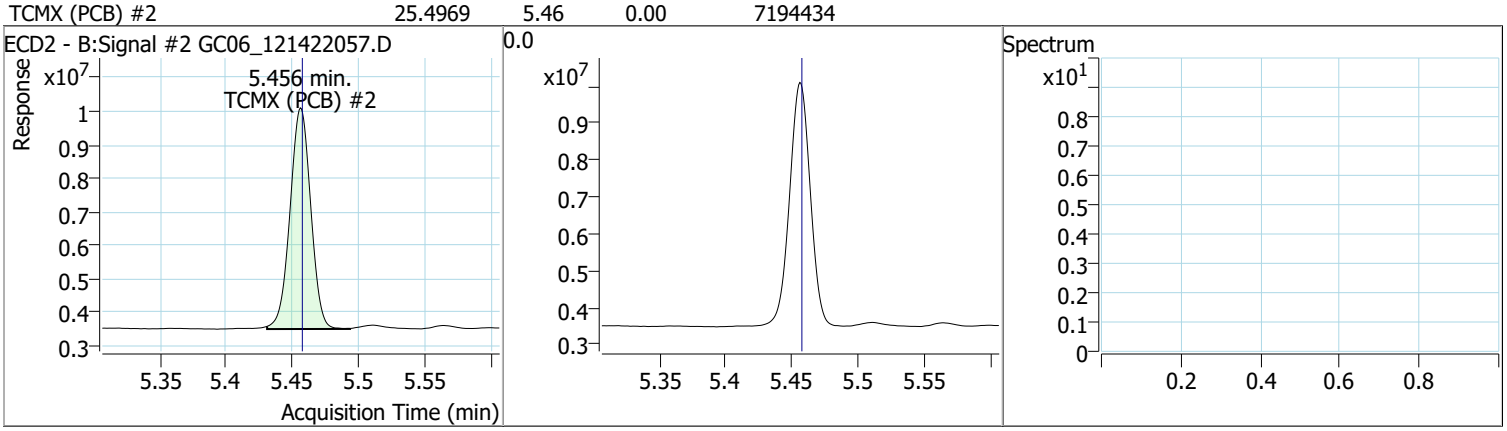
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	25.8359	5.06	0.00	1485069				



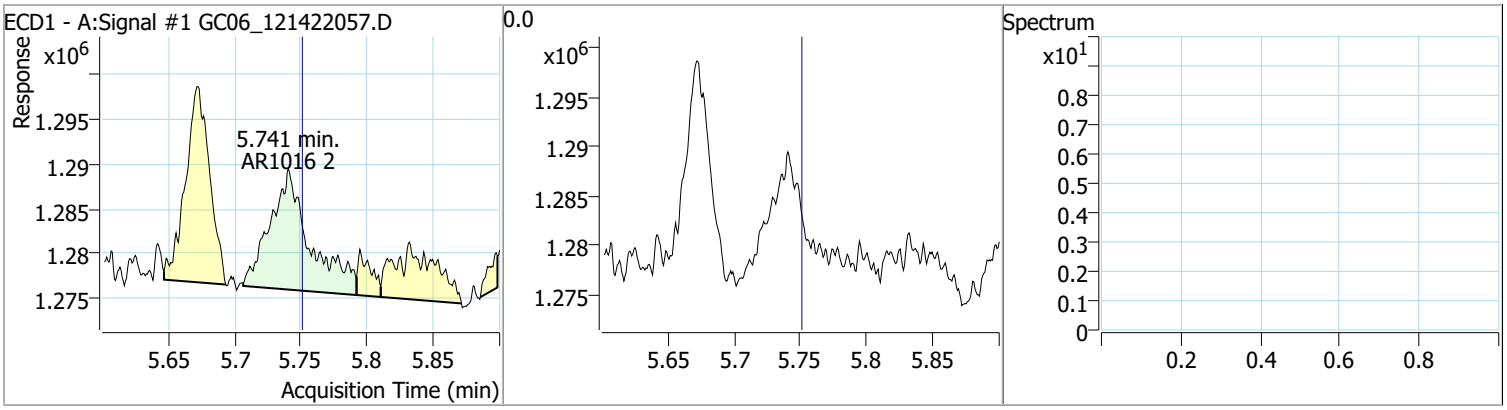
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	946.9020	5.27	-0.15	1186911				



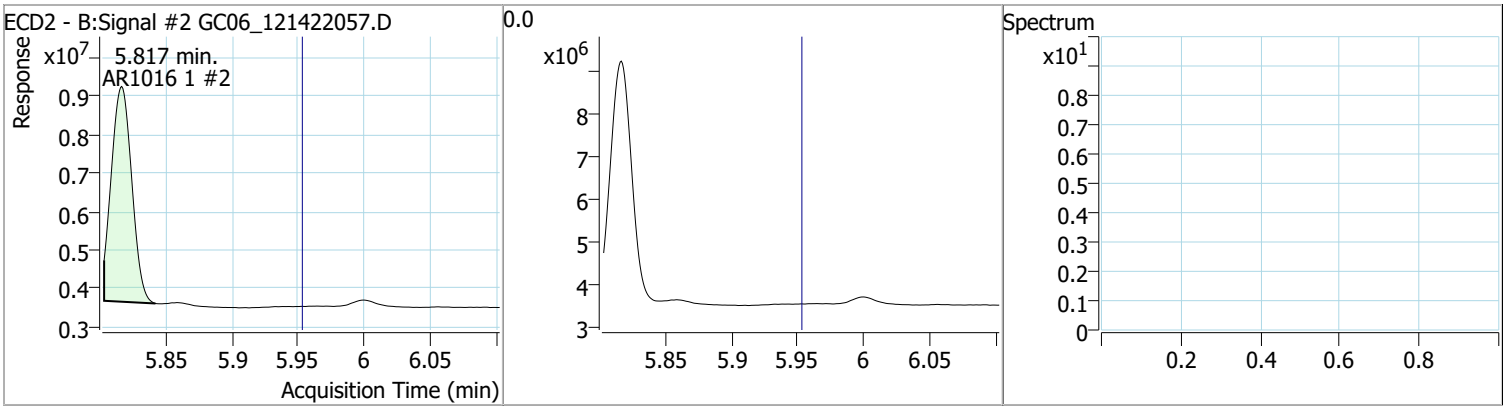
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	25.4969	5.46	0.00	7194434				



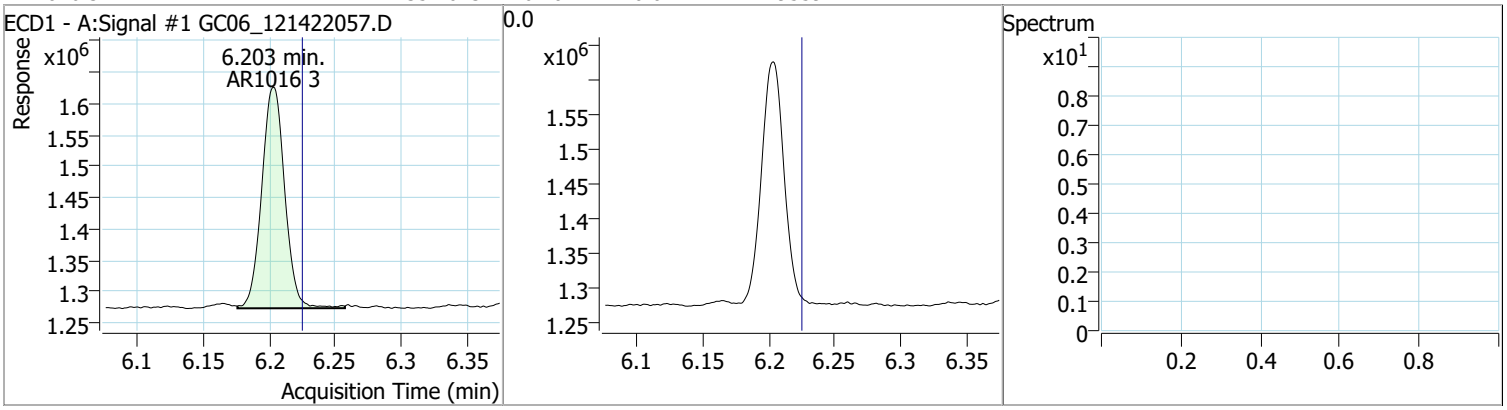
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.74	-0.01	28521				



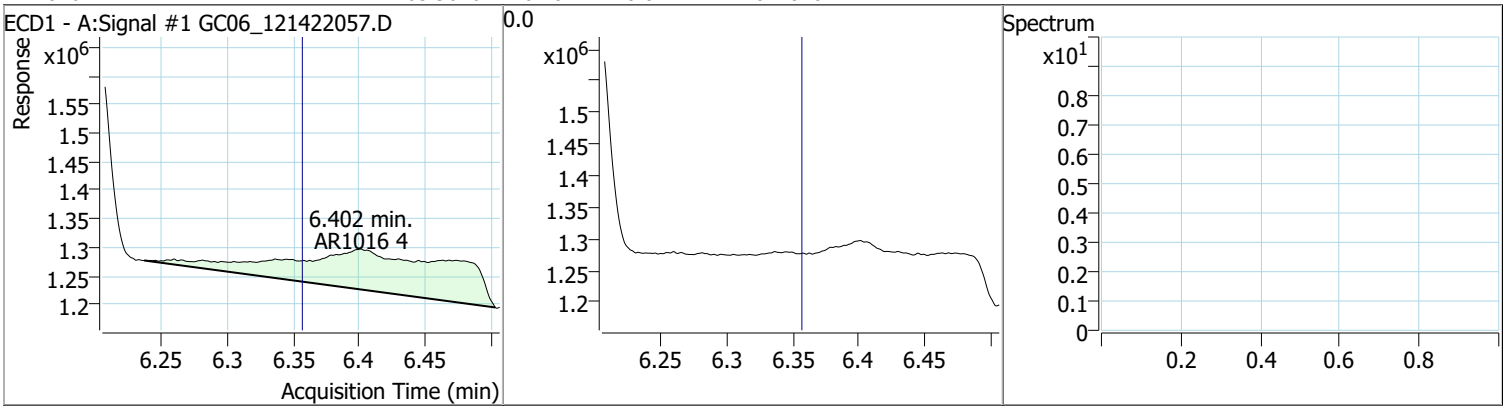
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	980.2140	5.82	-0.14	5985720				



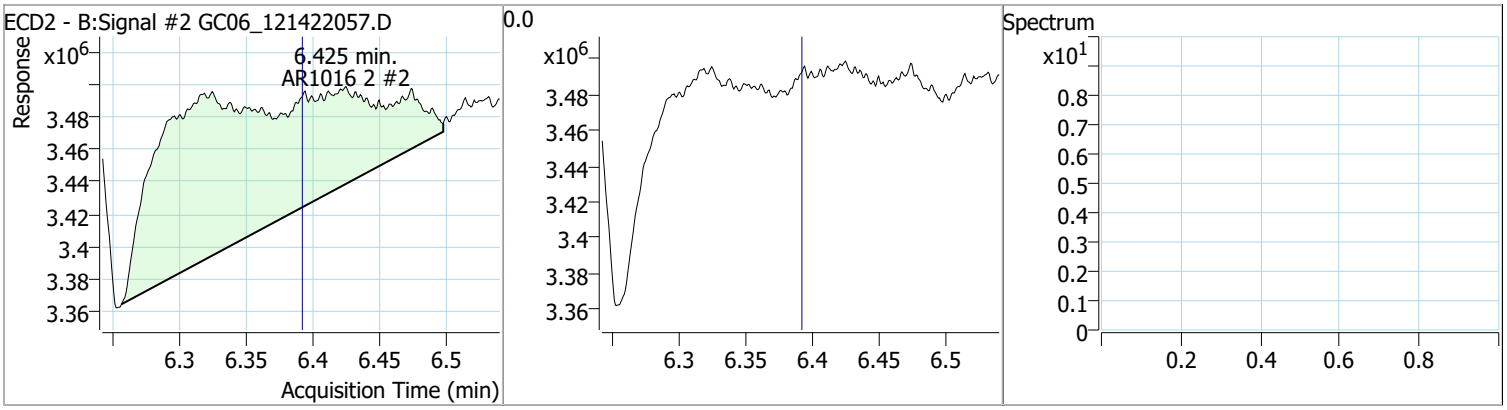
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	135.1643	6.20	-0.02	429559				



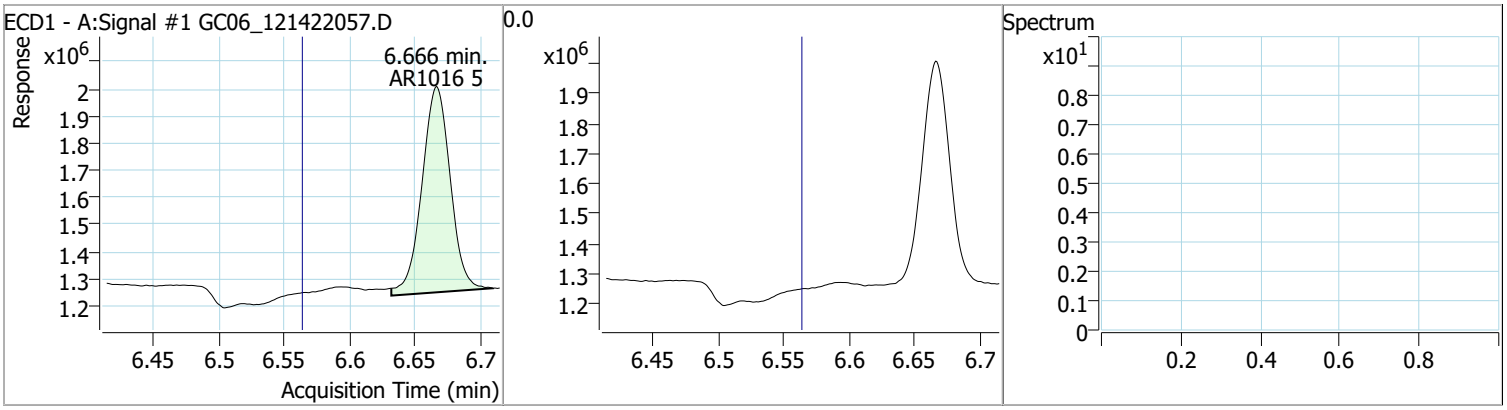
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	265.9676	6.40	0.04	642870				



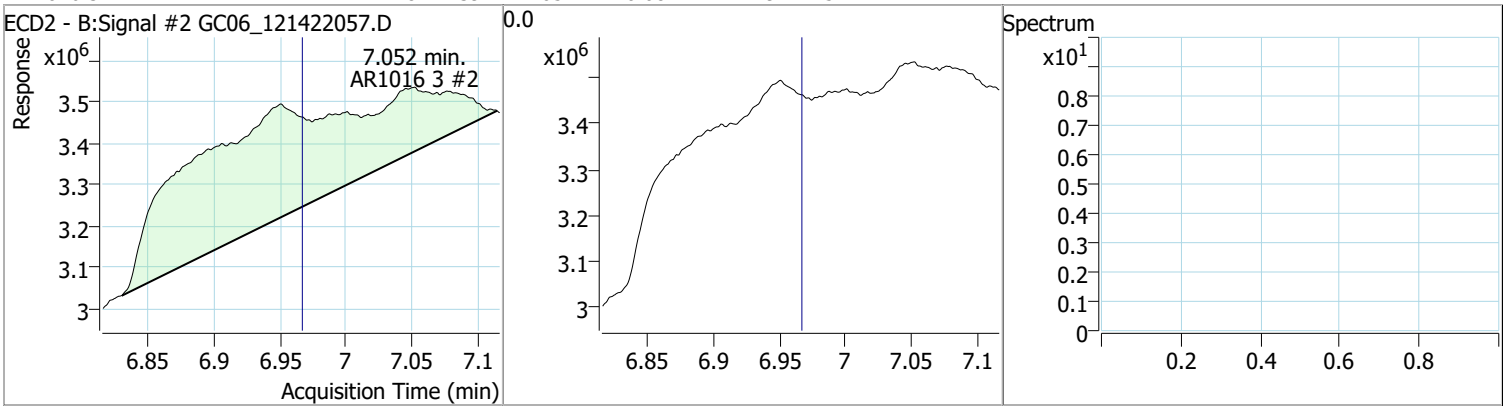
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	101.7403	6.43	0.03	896848				



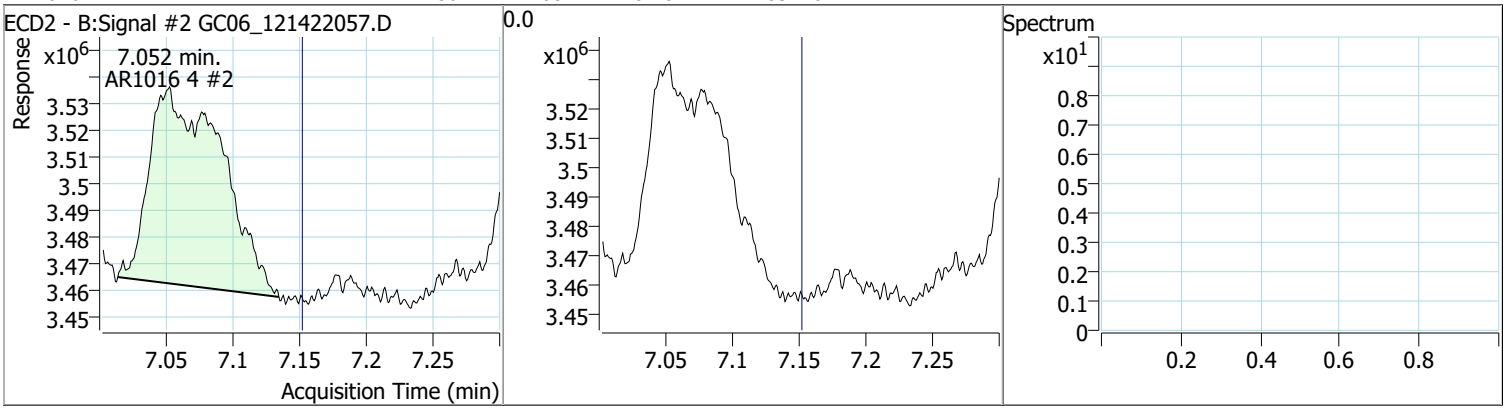
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	584.7764	6.67	0.10	1138483				



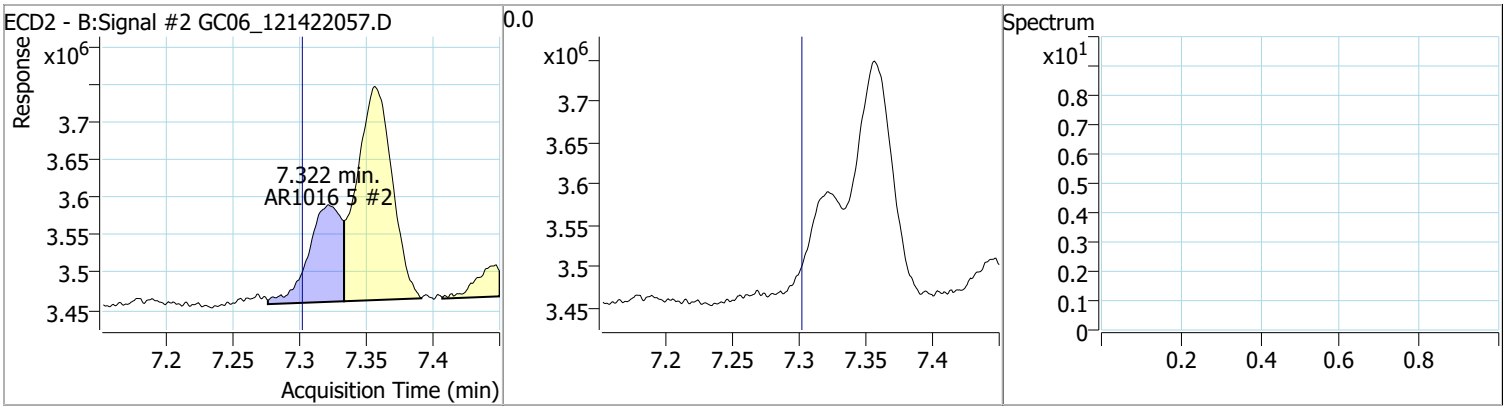
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	182.4439	7.05	0.08	2922215				



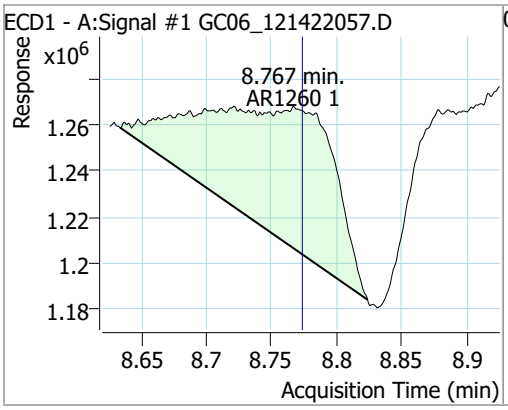
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	24.7864	7.05	-0.10	283426				

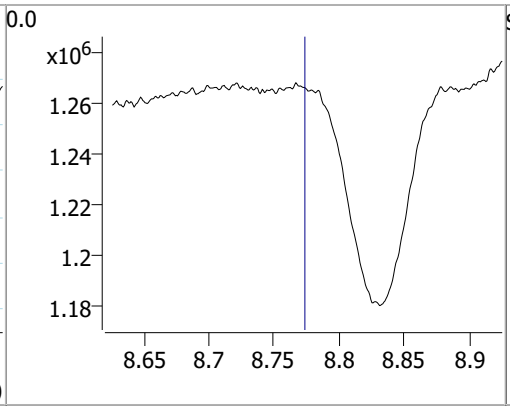


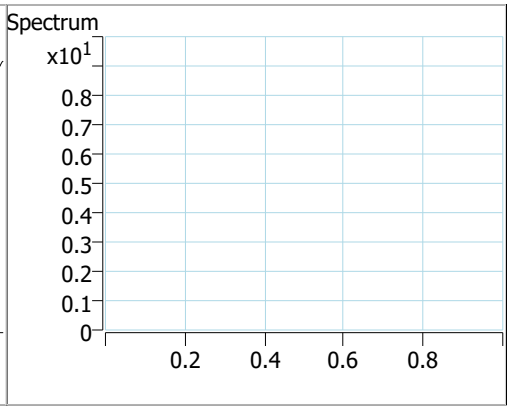
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	23.7458	7.32	0.02	220709				



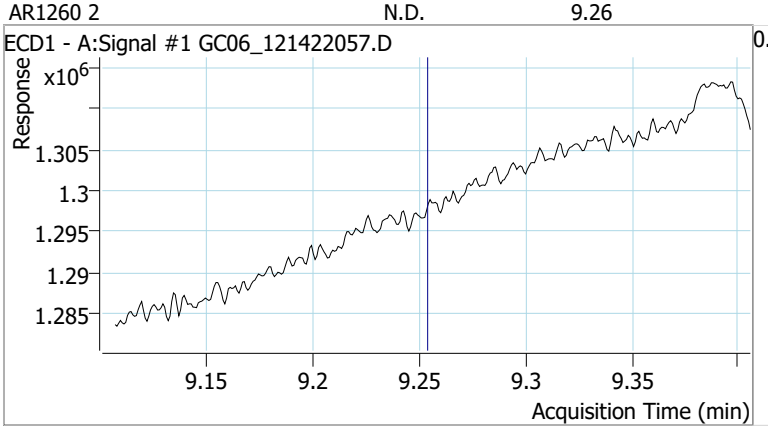
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	100.1169	8.77	-0.01	404697				

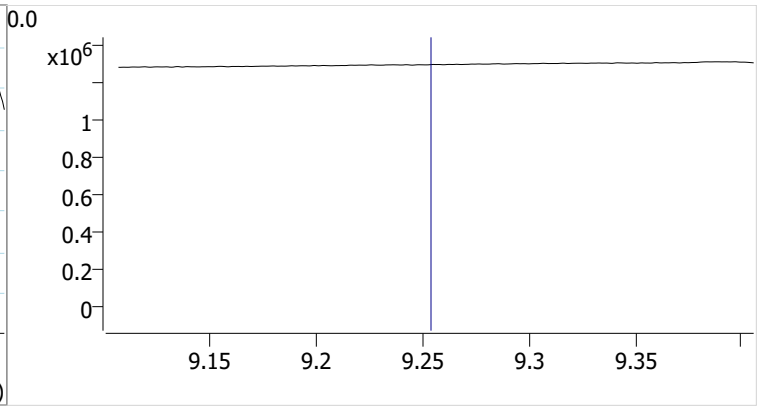




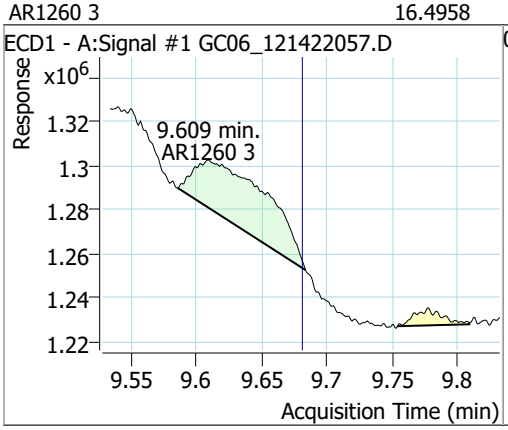


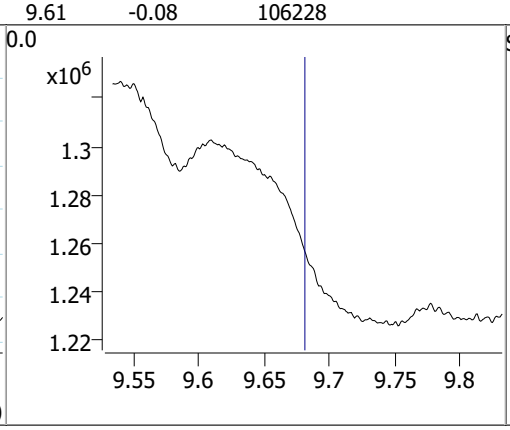
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 2	N.D.	9.26		

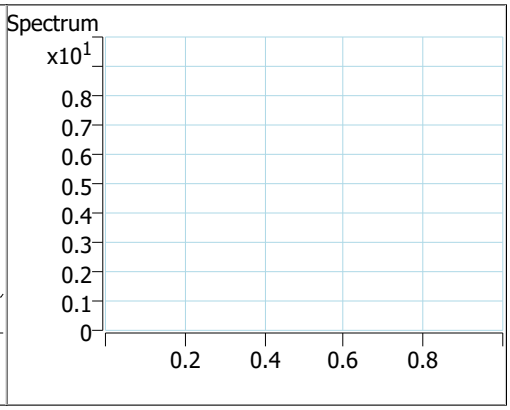




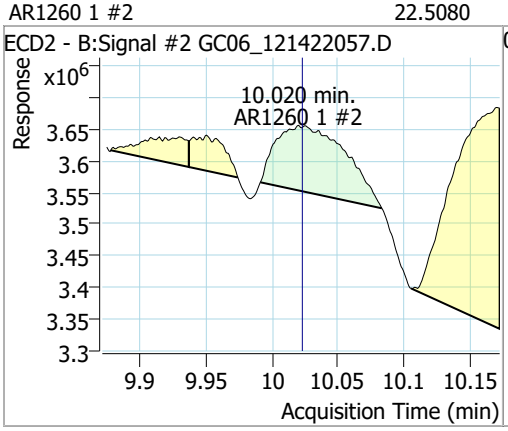
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	16.4958	9.61	-0.08	106228				

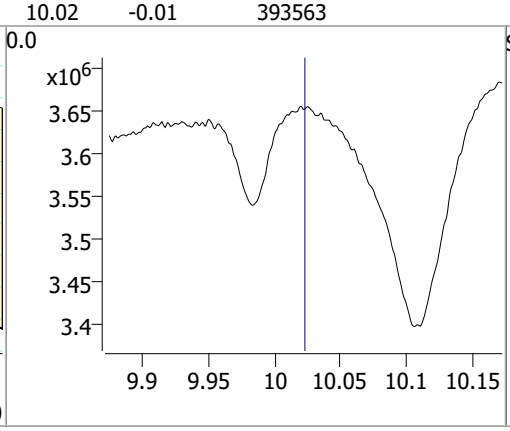


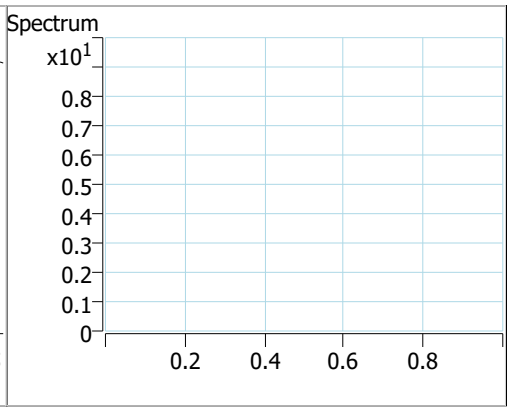




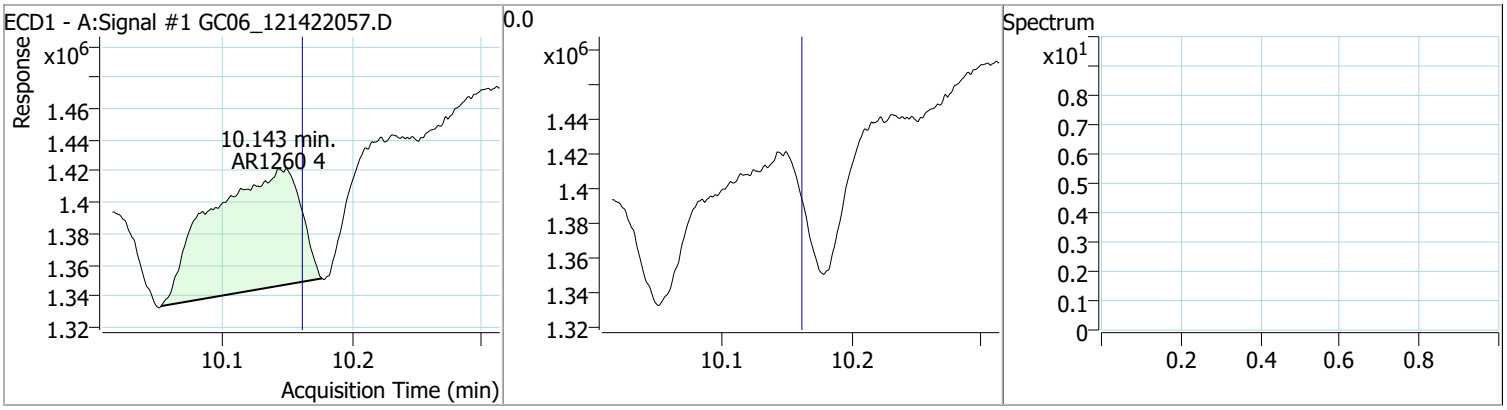
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	22.5080	10.02	-0.01	393563				



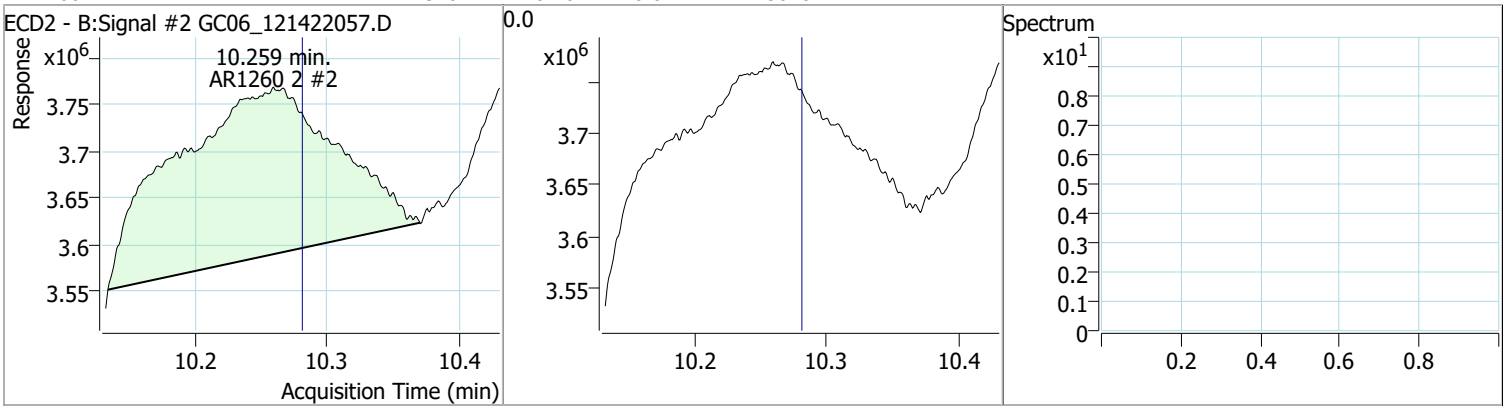




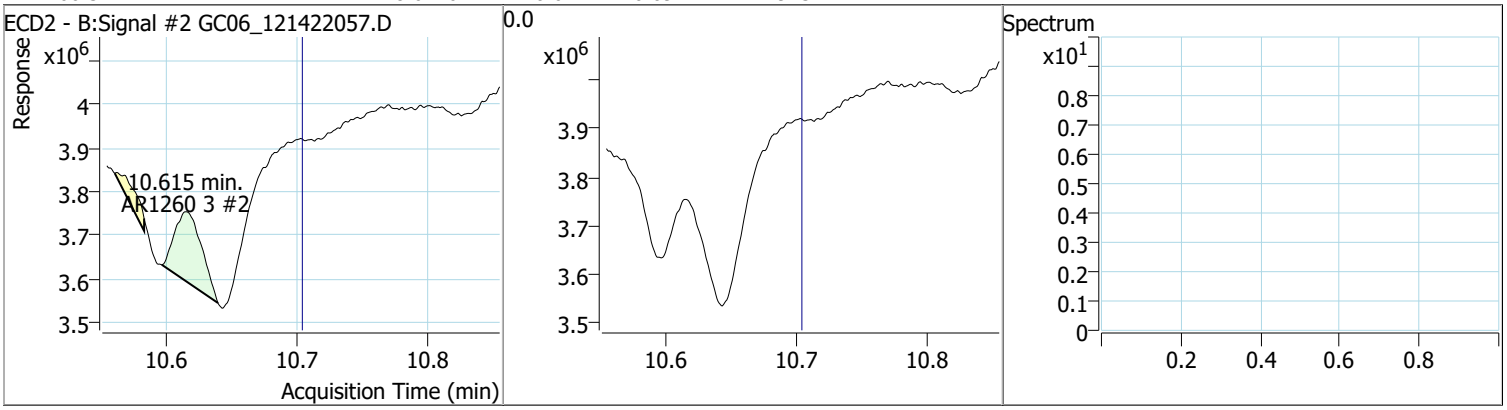
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	93.1079	10.14	-0.02	369203				



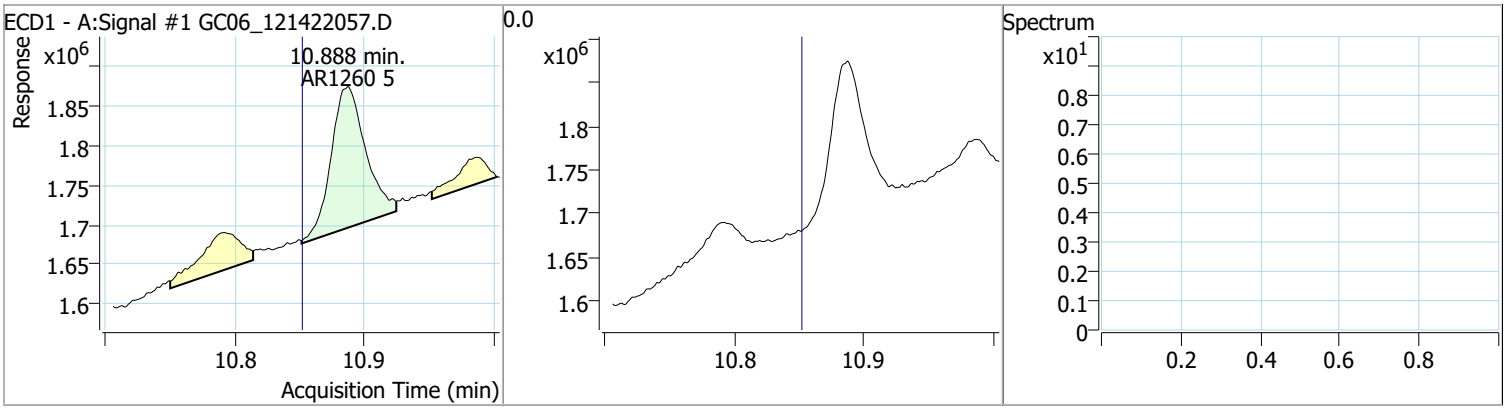
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	74.3402	10.26	-0.02	1561824				



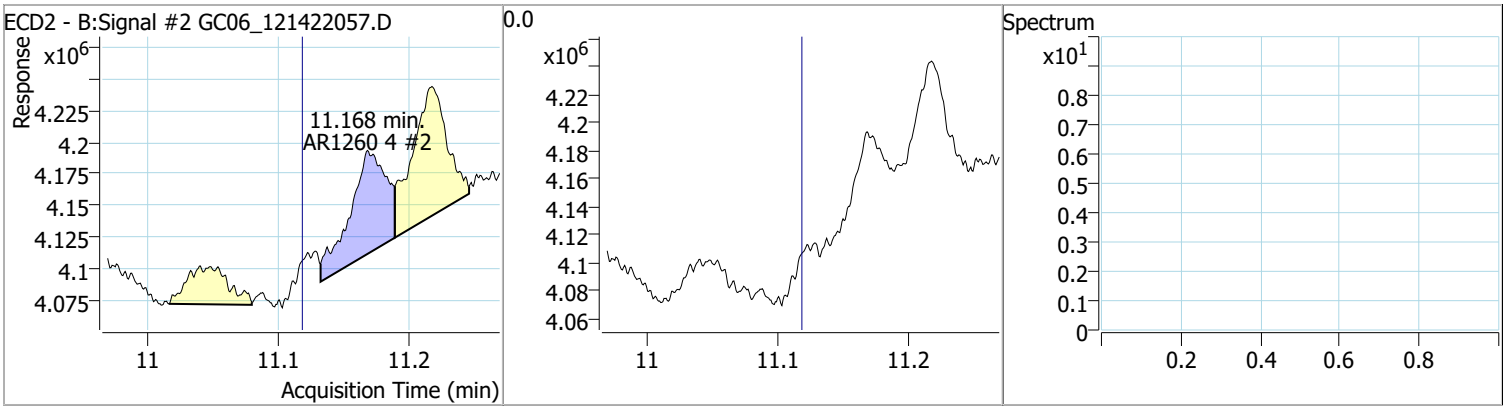
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	8.6276	10.62	-0.09	229434				



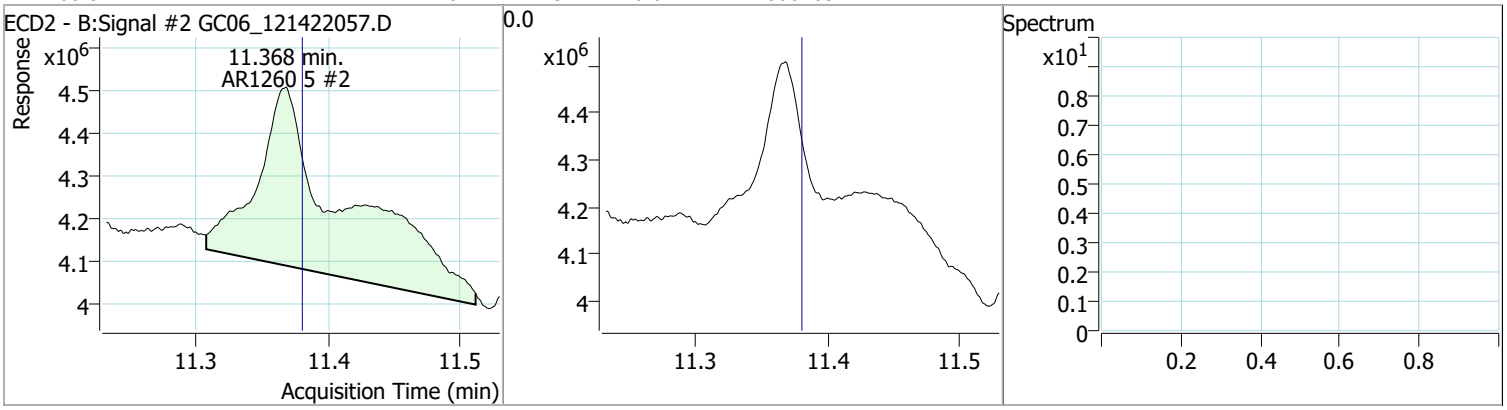
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	28.0438	10.89	0.03	330804				



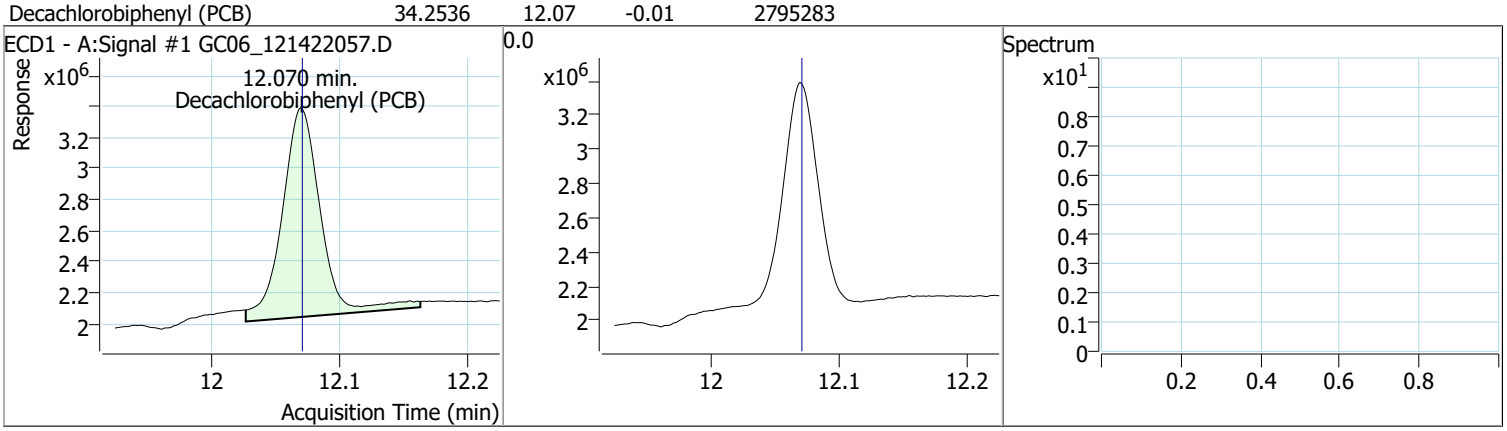
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	0.0000	11.17	0.05	156699				



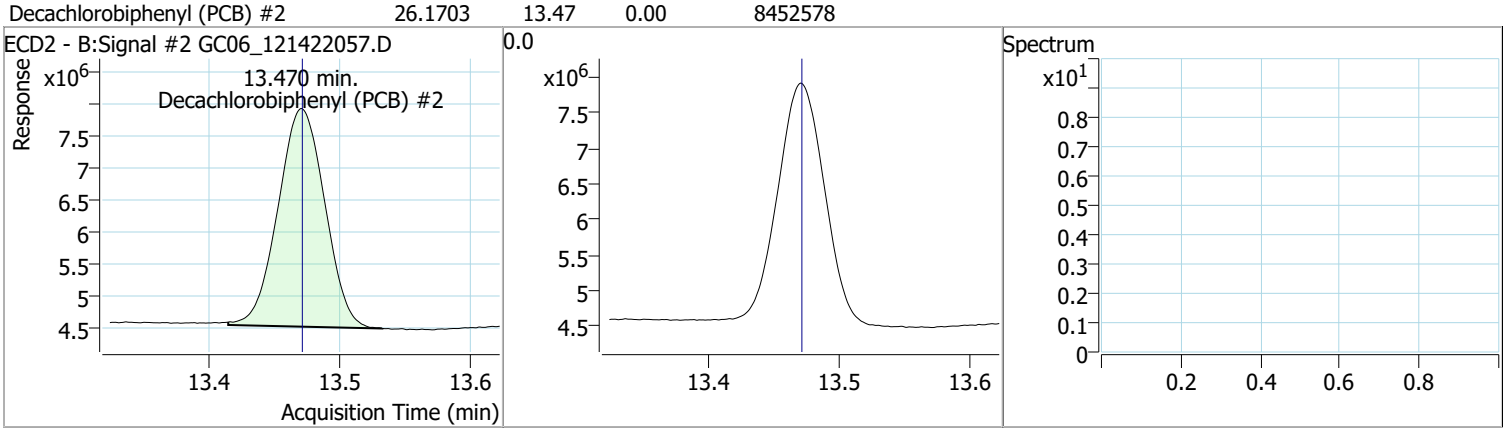
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	72.1461	11.37	-0.01	2006763				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	34.2536	12.07	-0.01	2795283				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	26.1703	13.47	0.00	8452578				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	474713-005	Client ID:	ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-P-LA
Seqnum:	452501809058	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_121422058	Batch:	303182	Time:	15-DEC-2022 05:29
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	71.70	~~0.72~~ ~~FP~~	3.0	123%	0.50		x u
Aroclor-1016 Peak # 1	B	24.97	0.25	0.04	148%			
Aroclor-1016 Peak # 2	B	145.7	1.46	ND	209%			
Aroclor-1016 Peak # 3	B	164.8	1.65	1.68	2%			
Aroclor-1016 Peak # 4	B	0.9942	0.01	2.52	198%			
Aroclor-1016 Peak # 5	B	22.08	0.22	10.77	192%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	46.15	ND	0.61	27%	0.50		u
Aroclor-1260 Peak # 1	B	62.84	0.63	1.29	69%			
Aroclor-1260 Peak # 2	B	88.61	0.89	0.03	188%			
Aroclor-1260 Peak # 3	B	10.47	0.10	0.25	81%			
Aroclor-1260 Peak # 4	B	-9.895	ND	1.24	235%			
Aroclor-1260 Peak # 5	B	78.73	0.79	0.21	115%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	34.32	0.5000	0.3432	69	19-121	u
Decachlorobiphenyl (PCB)	B	34.99	0.5000	0.3499	70	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_121422036)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	5560467	5775454	3.87
1-bromo-2-nitrobenzene (PCB)	A	1170615	1159149	-0.98

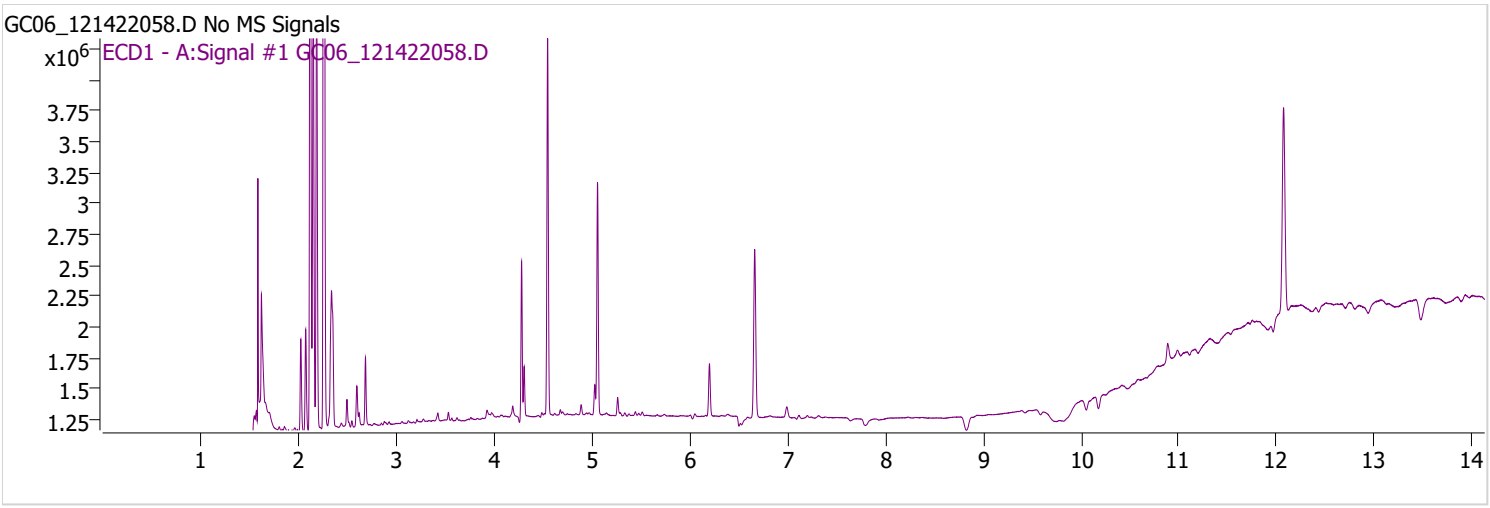
NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

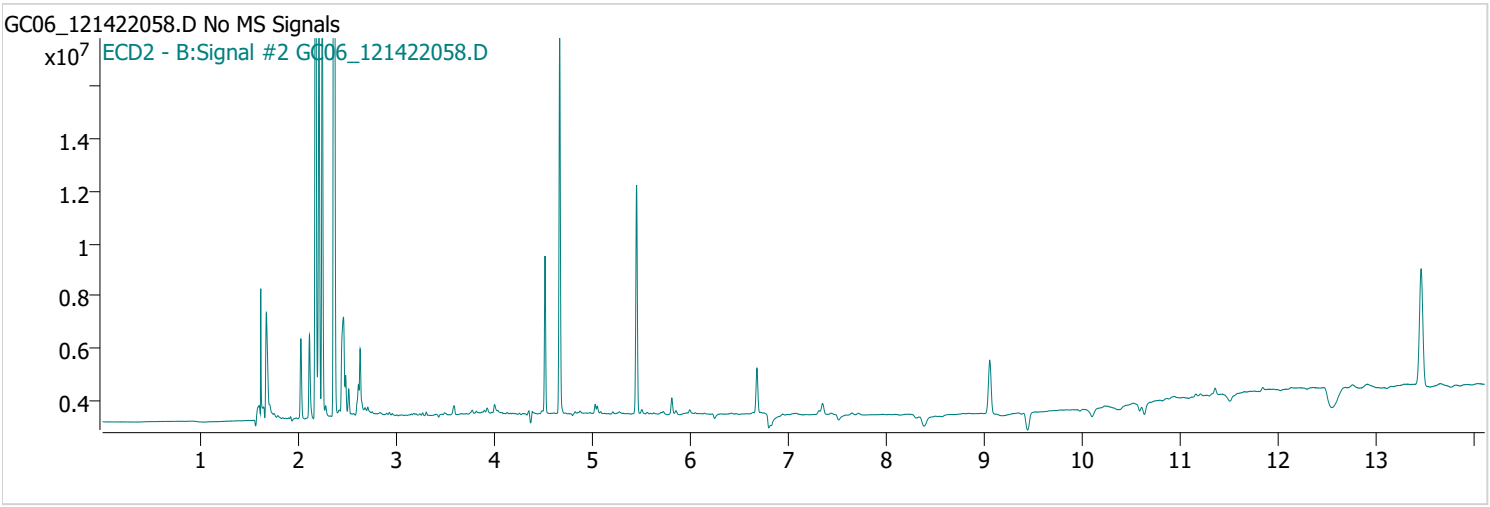
ISTD (CCV gc06_121422036)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.52	4.52	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.28	4.28	0.00

Analyst: MES 12/15/22 **Reviewer:** LW 12/15/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_121422058.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/15/2022 5:29:39 AM
Sample Name	474713-005, 303182, 1	Instrument	SVOA-GC06
Vial	41	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_11.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	121422PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



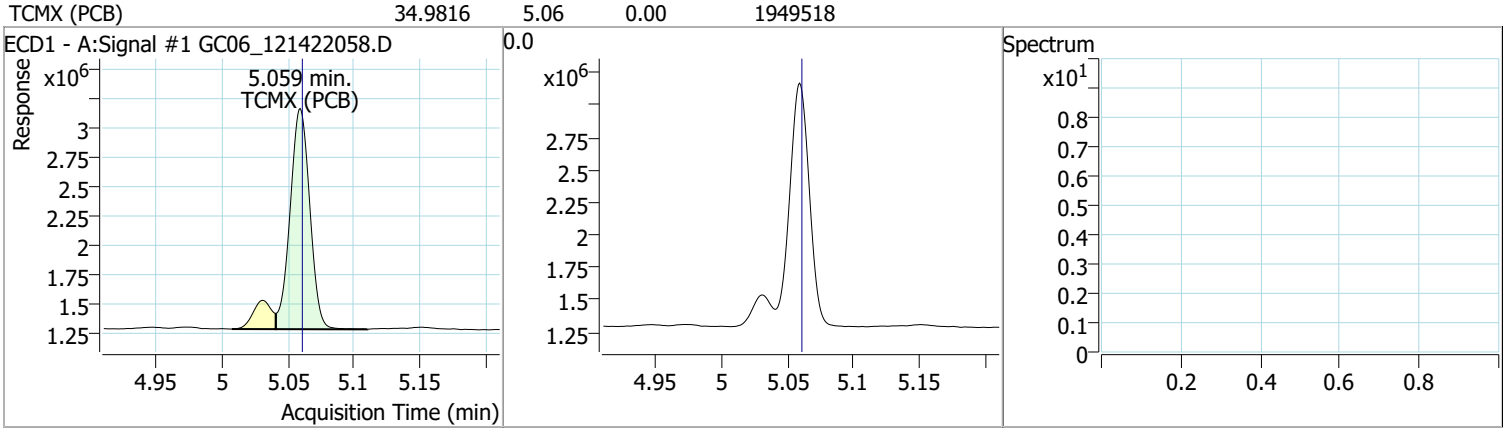


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.283	0.0	1159148.875	20.0000	ng/ml		-0.003
M 1-bromo-2-nitrobenzene (PCB) #2	4.521	0.0	5775454.064	20.0000	ng/ml		-0.002
System Monitoring Compounds							
S TCMX (PCB)	5.059	0.0	1949518.107	34.9816	ng/ml		-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 174.91%		*	
S TCMX (PCB) #2	5.456	0.0	9518047.784	34.3162	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 171.58%		*	
S Decachlorobiphenyl (PCB)	12.070	0.0	3532216.173	45.9550	ng/ml		-0.008
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 229.78%		*	
S Decachlorobiphenyl (PCB) #2	13.472	0.0	10898857.950	34.9878	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 174.94%		*	
Target Compounds							QValue

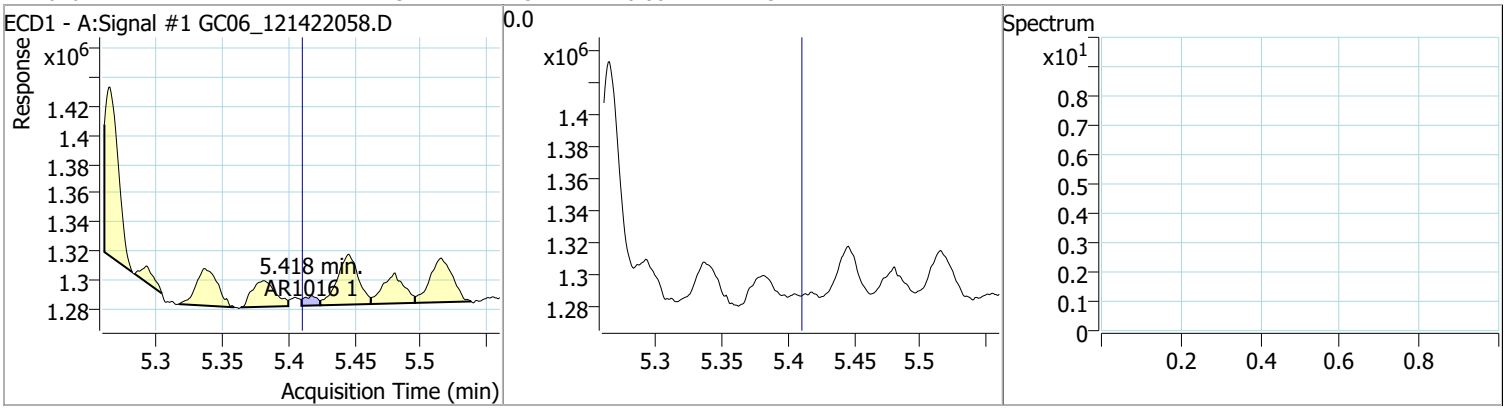
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.418	0.0	4526.511	3.7247	ng/ml	100
T AR1016 2	5.739	0.0	29288.847	0.0000	ng/ml	100
T AR1016 1 #2	5.963	0.0	149858.884	24.9659	ng/ml	100
T AR1016 3	6.203	0.0	516317.455	167.5681	ng/ml	100
T AR1016 4	6.393	0.0	589699.241	251.6350	ng/ml	100
T AR1016 2 #2	6.427	0.0	1262415.740	145.6920	ng/ml	100
T AR1016 5	6.665	0.0	2033721.827	1077.4322	ng/ml	100
T AR1016 3 #2	7.081	0.0	2594584.540	164.7951	ng/ml	100
T AR1016 4 #2	7.179	0.0	11175.301	0.9942	ng/ml	100
T AR1016 5 #2	7.321	0.0	201733.191	22.0802	ng/ml	100
T AR1260 1	8.770	0.0	507485.019	129.4900	ng/ml	100
T AR1260 2	9.395	0.0	16695.158	2.7949	ng/ml	100
T AR1260 3	9.622	0.0	154689.838	24.7761	ng/ml	100
T AR1260 1 #2	10.015	0.0	1080031.810	62.8376	ng/ml	100
T AR1260 4	10.148	0.0	461030.641	124.3647	ng/ml	100
T AR1260 2 #2	10.237	0.0	1829892.435	88.6087	ng/ml	100
T AR1260 3 #2	10.615	0.0	273665.453	10.4692	ng/ml	100
T AR1260 5	10.886	0.0	272955.795	21.1709	ng/ml	100
T AR1260 4 #2	11.170	0.0	197384.946	0.0000	ng/ml	100
T AR1260 5 #2	11.367	0.0	2115698.155	78.7339	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

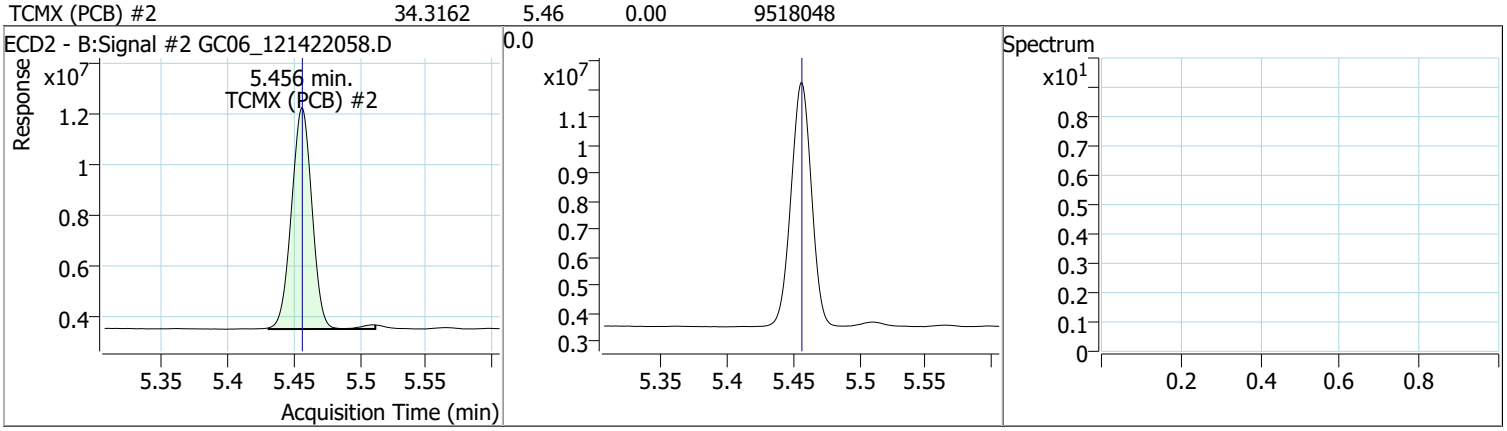
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	34.9816	5.06	0.00	1949518				



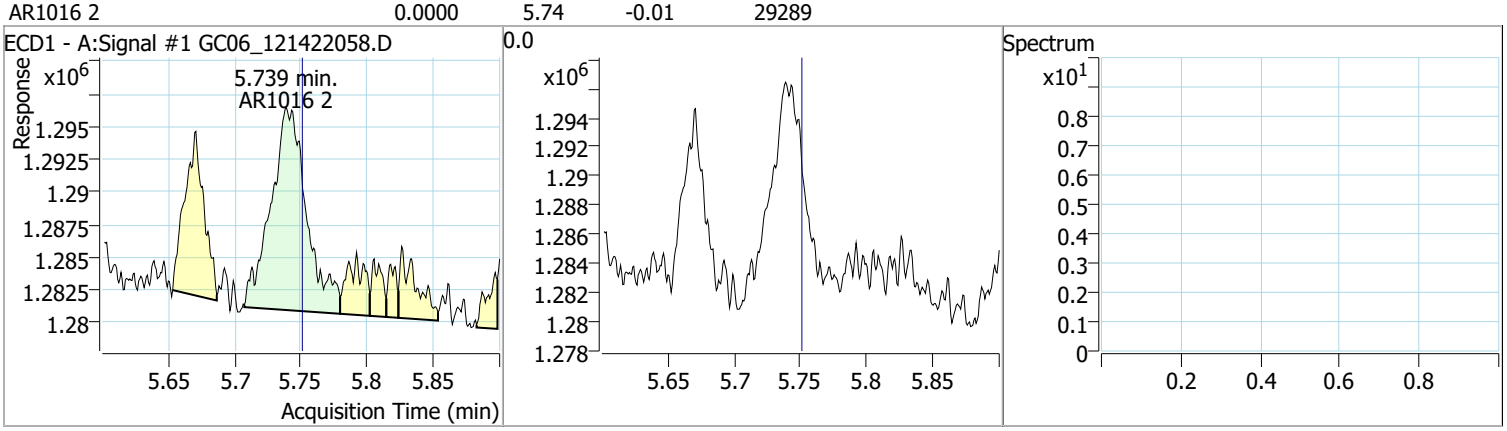
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	3.7247	5.42	0.00	4527				



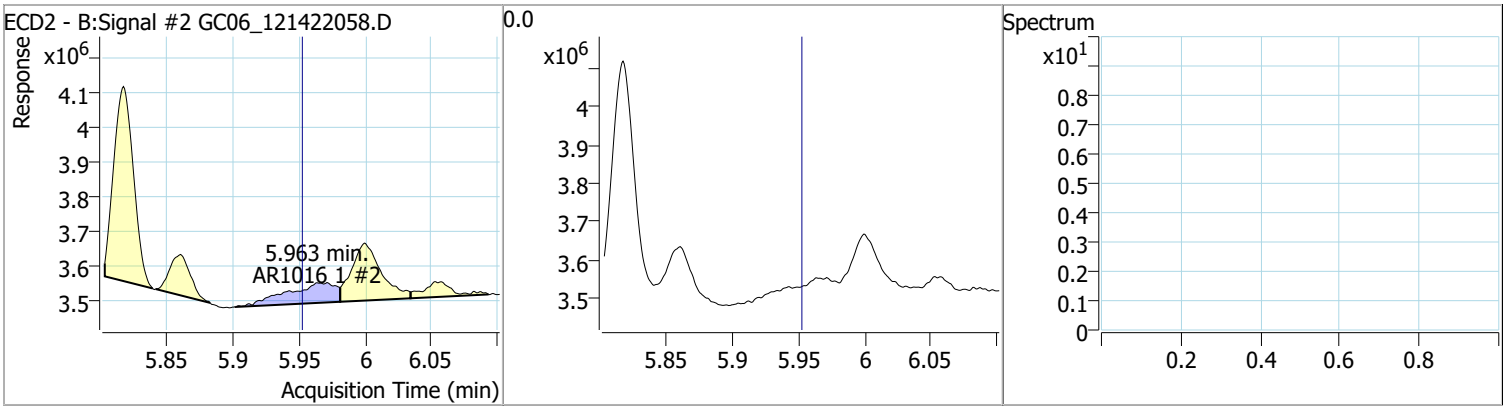
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	34.3162	5.46	0.00	9518048				



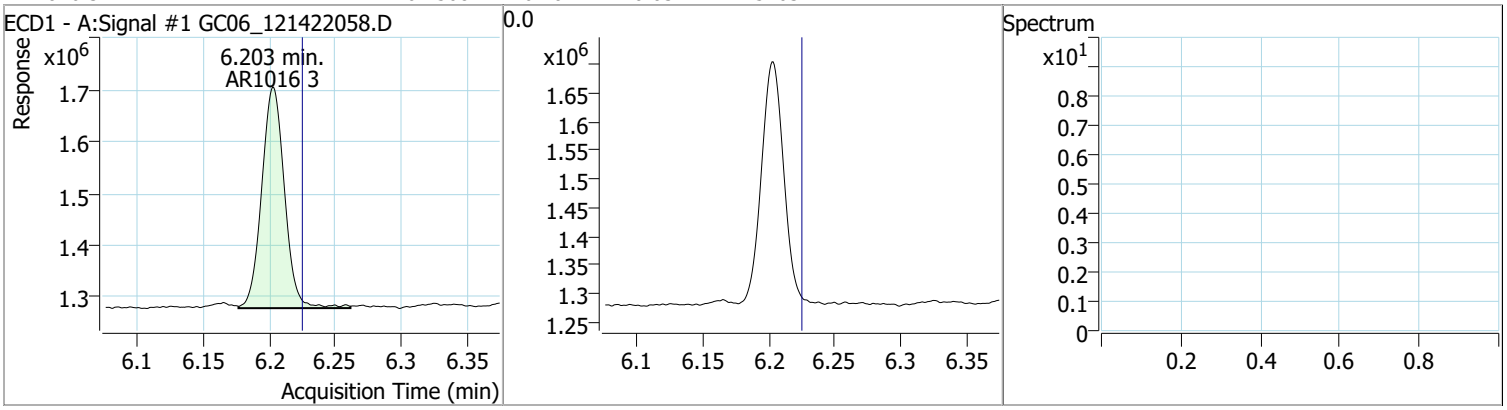
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.74	-0.01	29289				



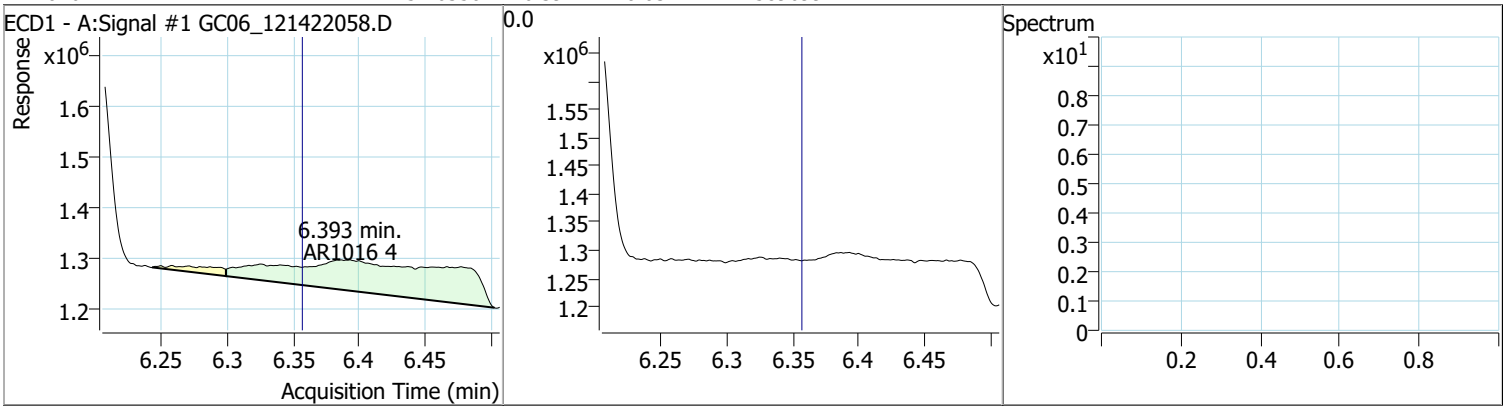
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	24.9659	5.96	0.01	149859				



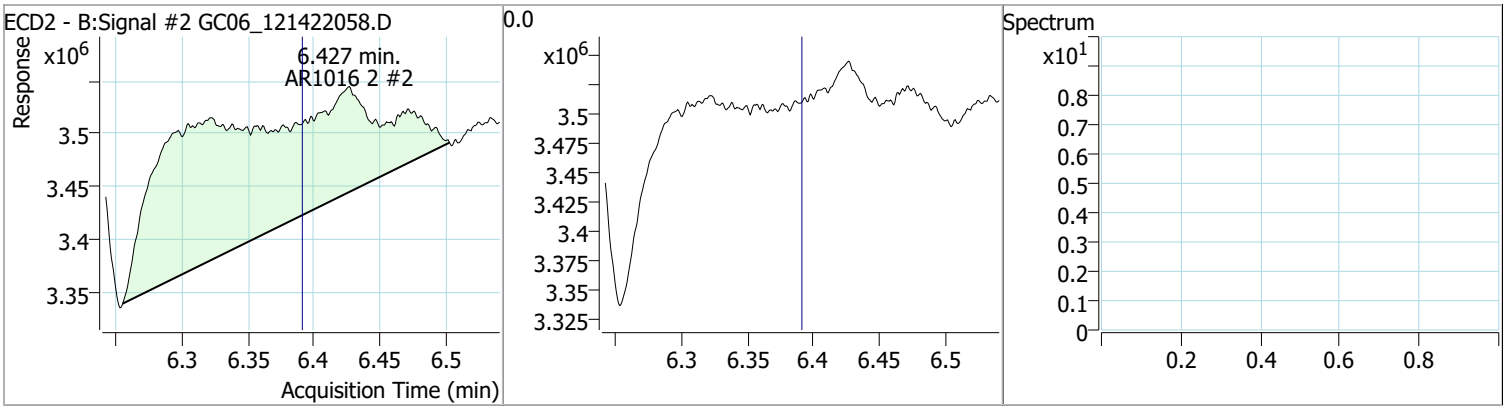
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	167.5681	6.20	-0.03	516317				



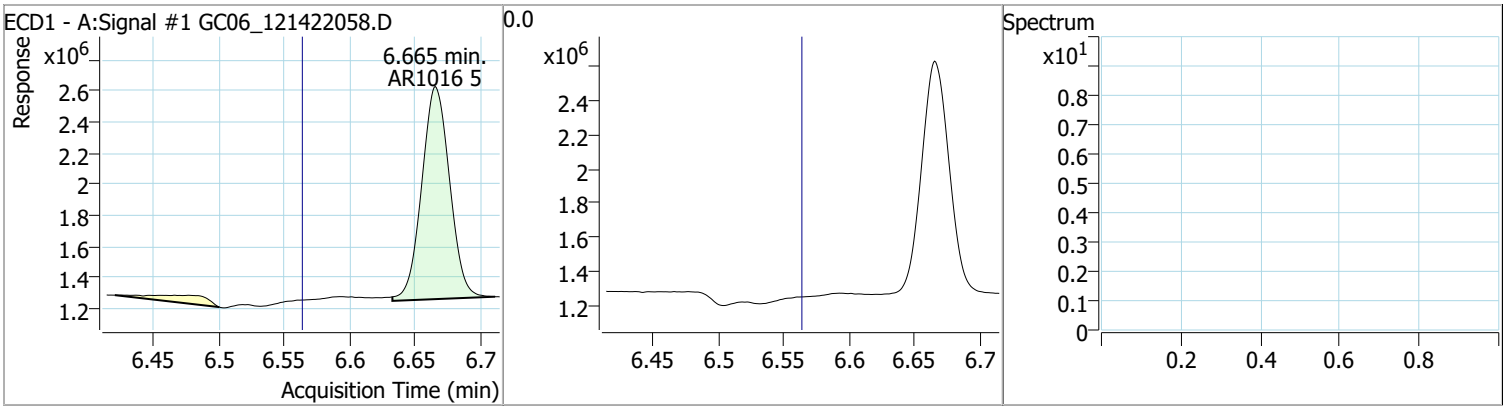
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	251.6350	6.39	0.03	589699				



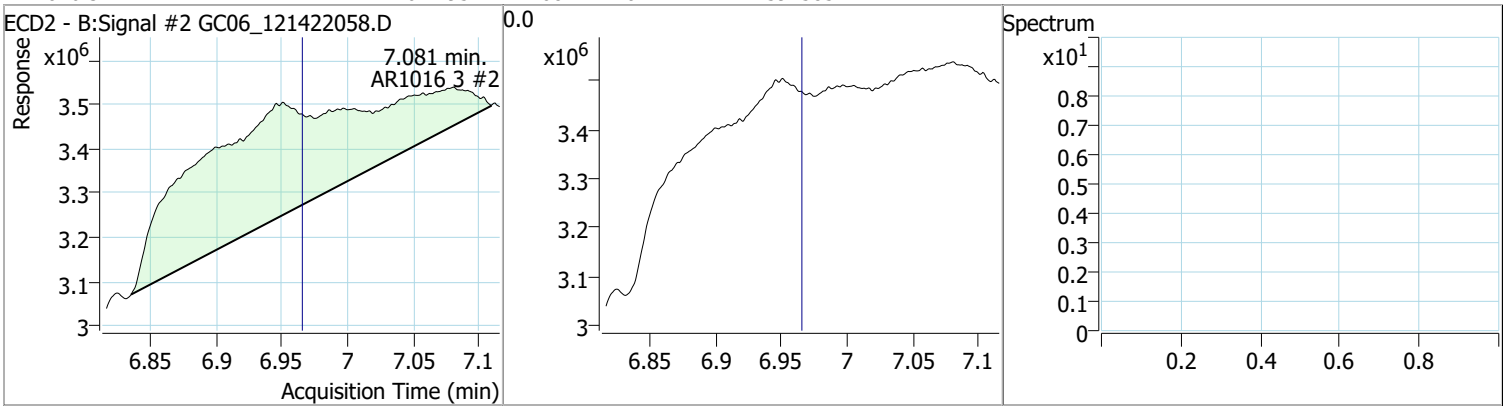
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	145.6920	6.43	0.03	1262416				



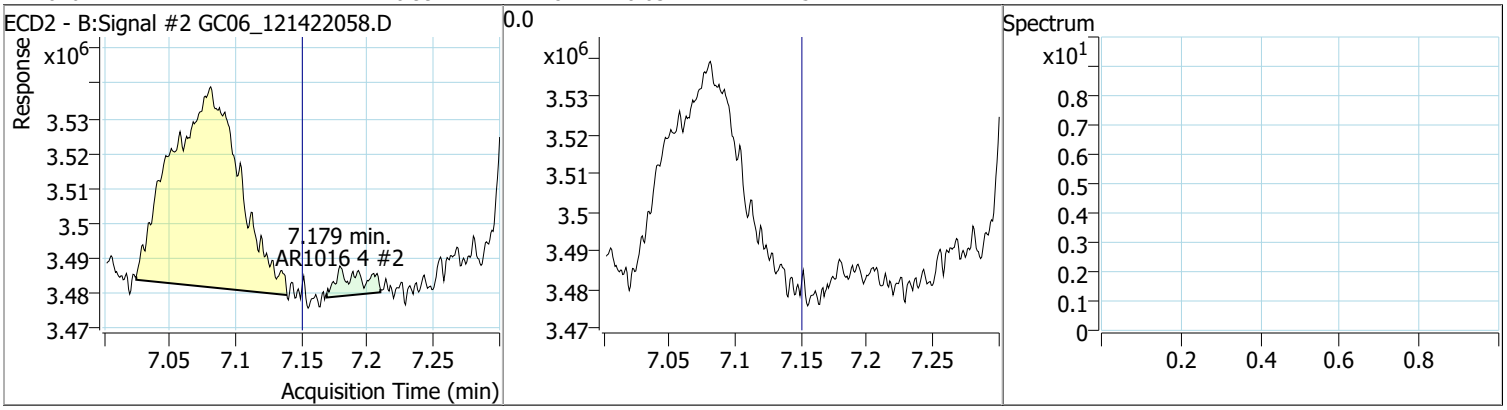
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	1077.4322	6.67	0.10	2033722				



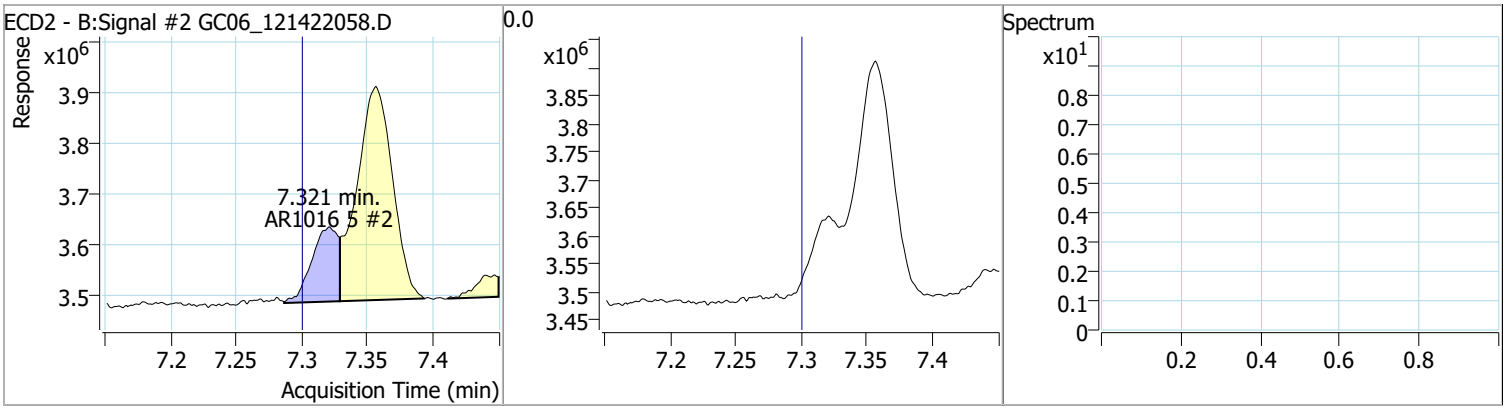
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	164.7951	7.08	0.11	2594585				



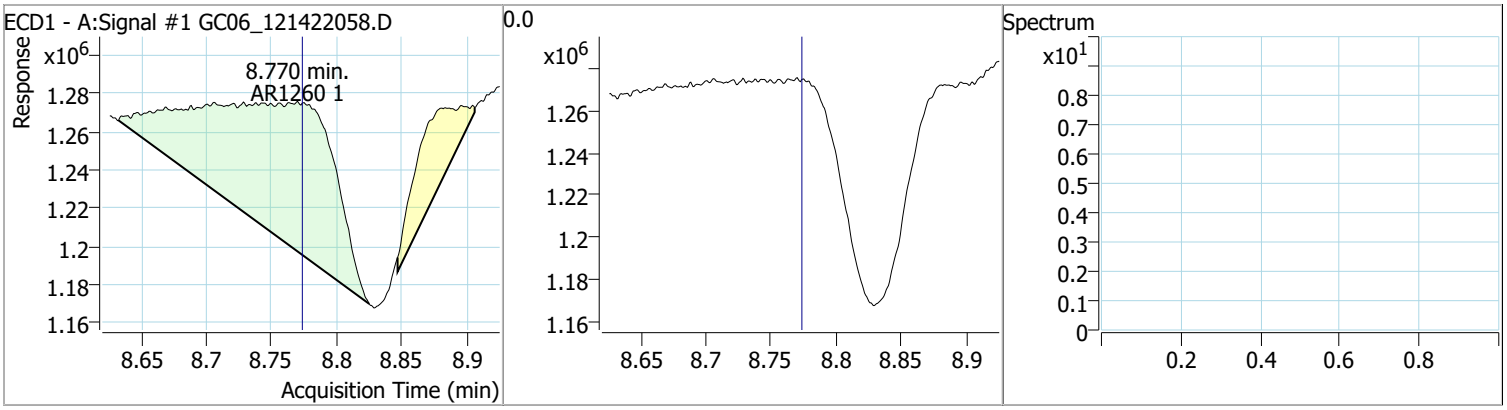
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	0.9942	7.18	0.03	11175				



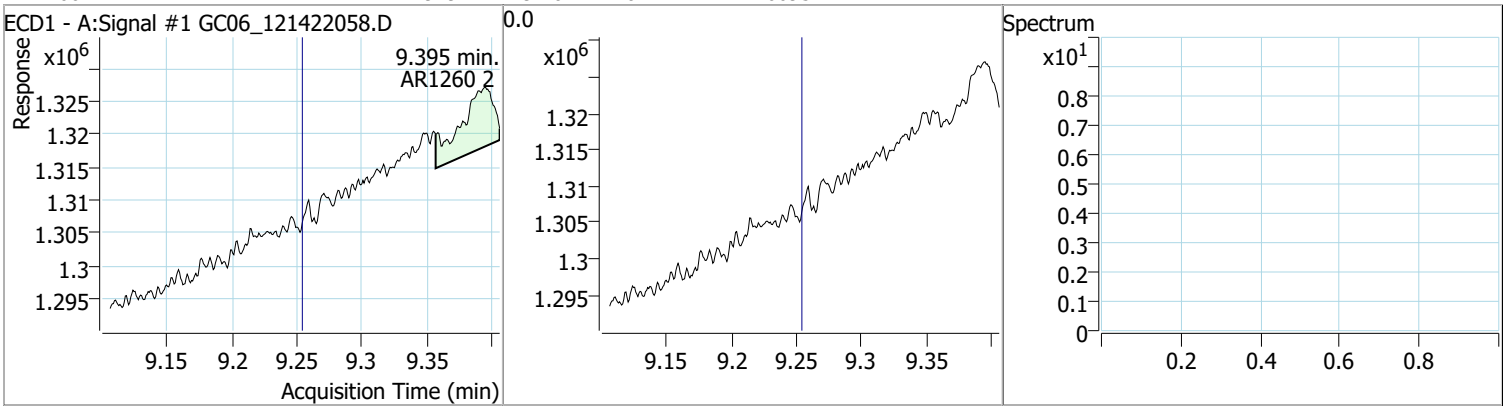
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	22.0802	7.32	0.02	201733				



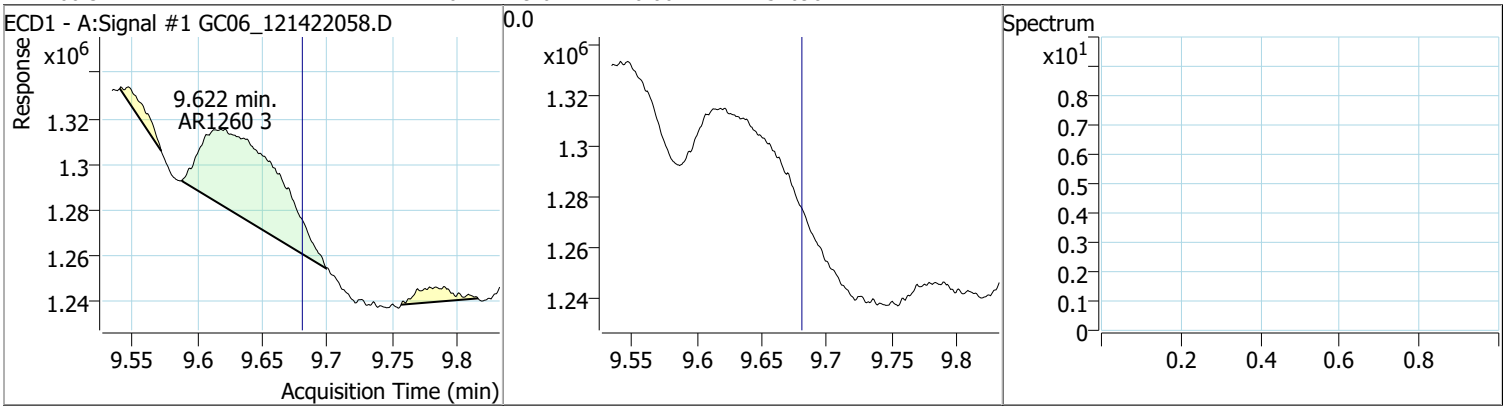
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	129.4900	8.77	-0.01	507485				



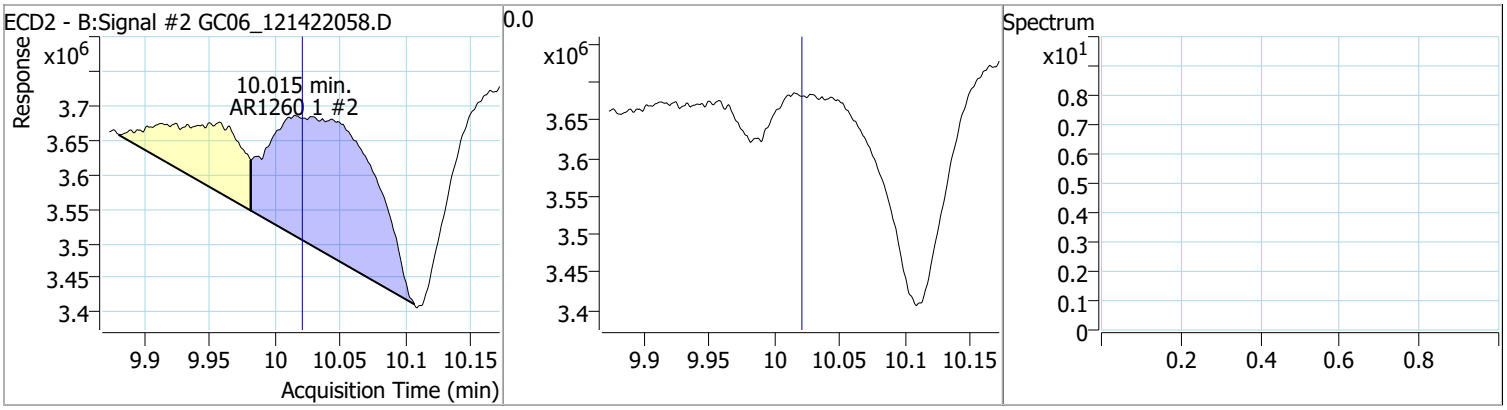
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	2.7949	9.40	0.14	16695				



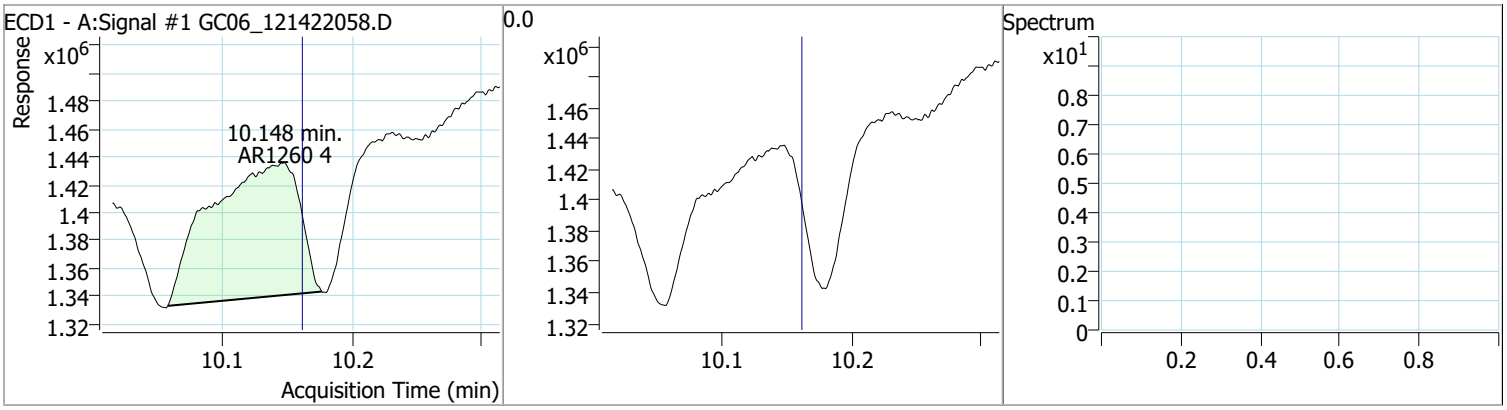
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	24.7761	9.62	-0.06	154690				



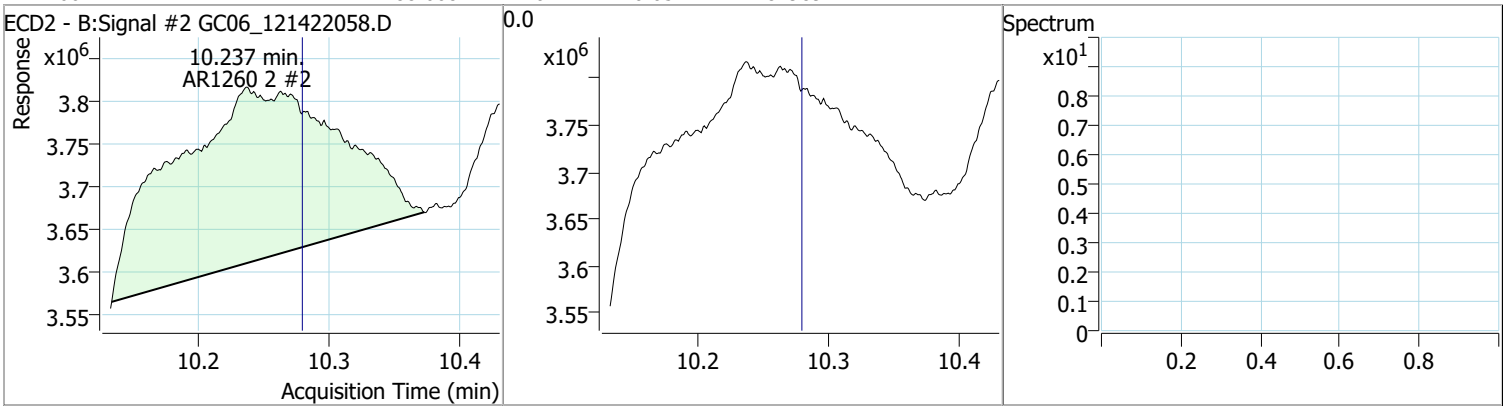
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	62.8376	10.02	-0.01	1080032				



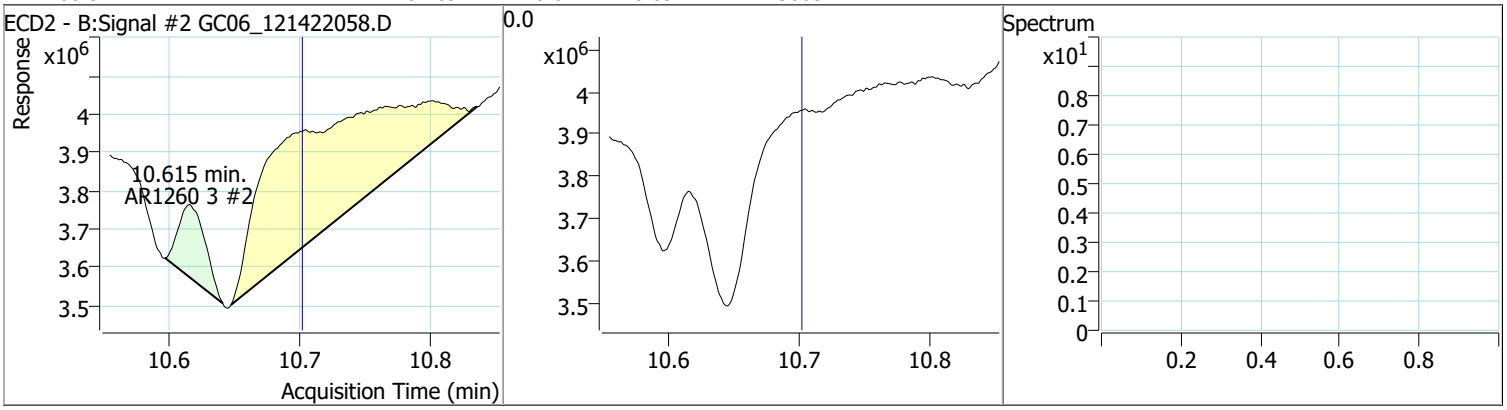
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	124.3647	10.15	-0.02	461031				



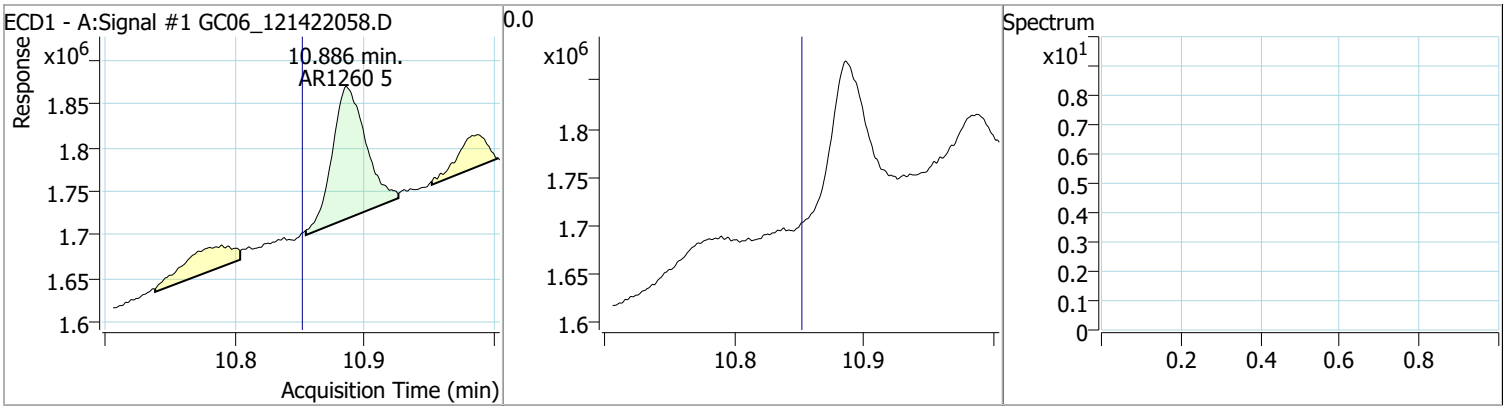
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	88.6087	10.24	-0.05	1829892				



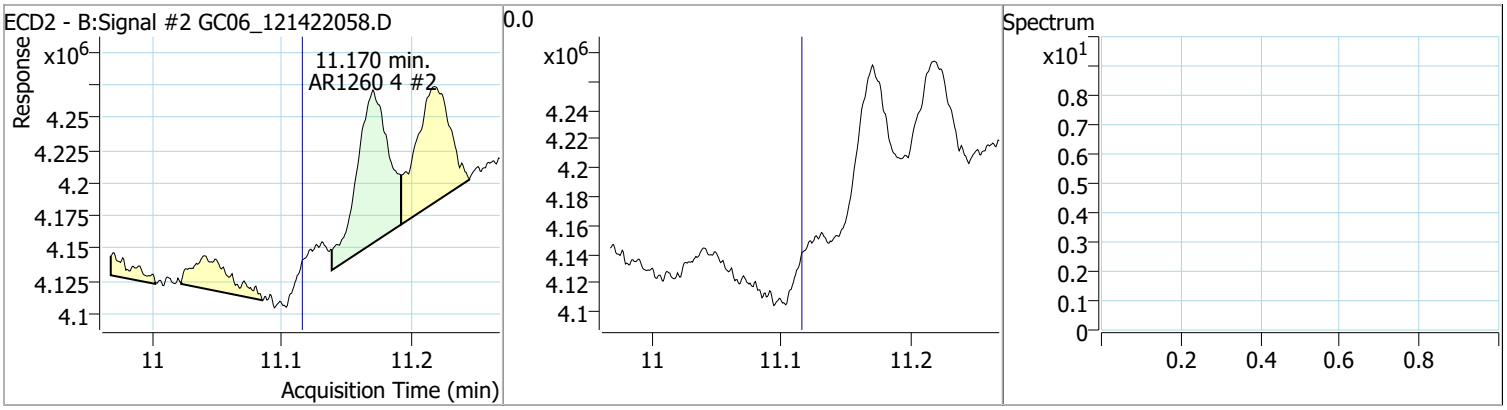
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	10.4692	10.62	-0.09	273665				



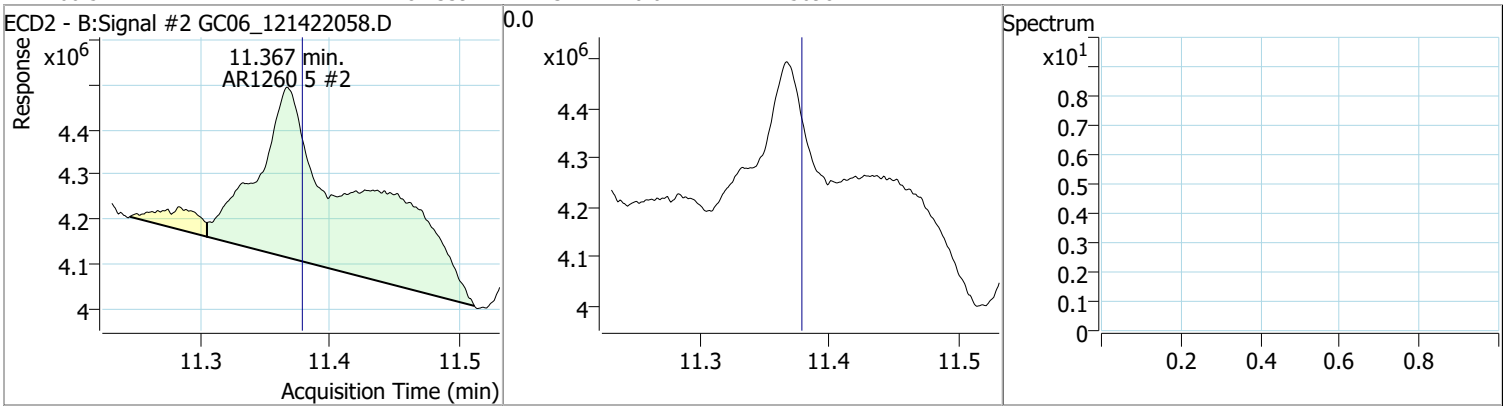
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	21.1709	10.89	0.03	272956				



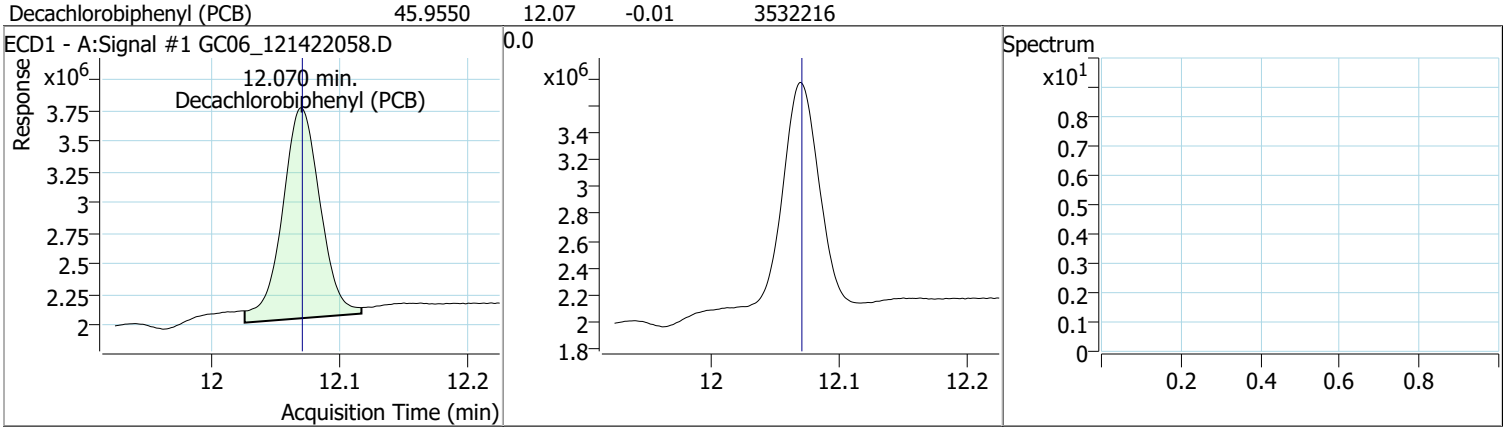
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	0.0000	11.17	0.05	197385				



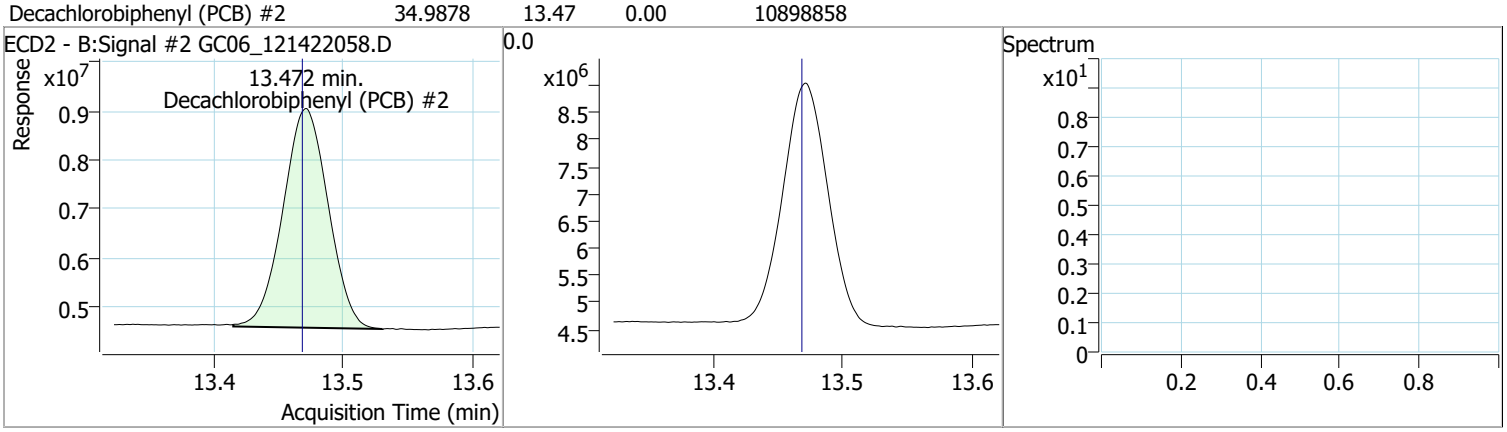
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	78.7339	11.37	-0.02	2115698				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	45.9550	12.07	-0.01	3532216				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	34.9878	13.47	0.00	10898858				



QC Raw Data

ENTHALPY BLANK USER REPORT FOR 474713 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Lab ID:	QC1031899		
Seqnum:	452501809041.2	Matrix:	Wipe		
File:	gc06_121422041	Batch:	303182	Time:	15-DEC-2022 00:18
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Flags
Aroclor-1016	B	42.70	ND	0.63	38%	0.50	u
Aroclor-1016 Peak # 1	B	7.797	0.08	0.03	78%		
Aroclor-1016 Peak # 2	B	10.10	0.10	ND	2571%		
Aroclor-1016 Peak # 3	B	185.7	1.86	0.04	191%		
Aroclor-1016 Peak # 4	B	4.712	0.05	0.01	116%		
Aroclor-1016 Peak # 5	B	5.259	0.05	3.13	193%		
Aroclor-1221	B		ND			0.50	u
Aroclor-1232	B		ND			0.50	u
Aroclor-1242	B		ND			0.50	u
Aroclor-1248	B		ND			0.50	u
Aroclor-1254	B		ND			0.50	u
Aroclor-1260	B	4.365	ND	0.29	148%	0.50	u
Aroclor-1260 Peak # 1	B	21.53	0.22	0.58	91%		
Aroclor-1260 Peak # 2	B	9.932	0.10	0.00	197%		
Aroclor-1260 Peak # 3	B	5.293	0.05	0.12	77%		
Aroclor-1260 Peak # 4	B	-22.34	ND	0.66	406%		
Aroclor-1260 Peak # 5	B	7.408	0.07	0.12	46%		
Aroclor-1262	B		ND			0.50	u
Aroclor-1268	B		ND			0.50	u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	40.54	0.5000	0.4054	81	19-121	u
Decachlorobiphenyl (PCB)	B	34.16	0.5000	0.3416	68	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR
CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_121422036)	Ch	CCV Abund	BLANK Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	5560467	6052909	8.86
1-bromo-2-nitrobenzene (PCB)	A	1170615	1261934	7.80

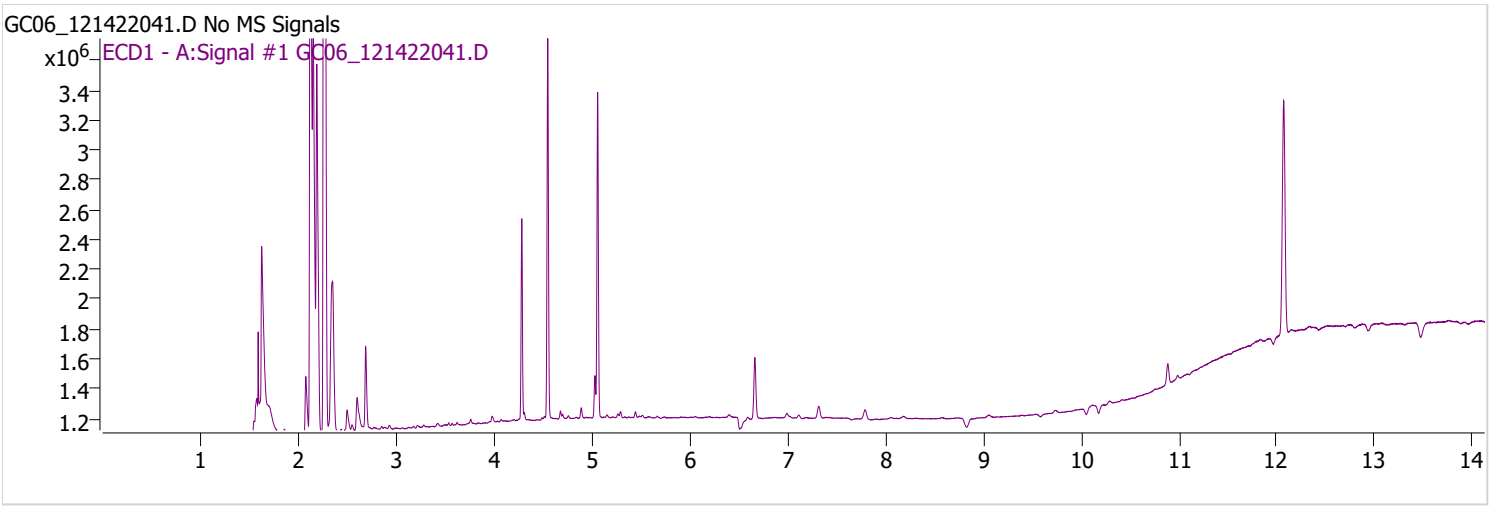
NO INTERNAL STANDARD REFERENCE RUN FOUND FOR
CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

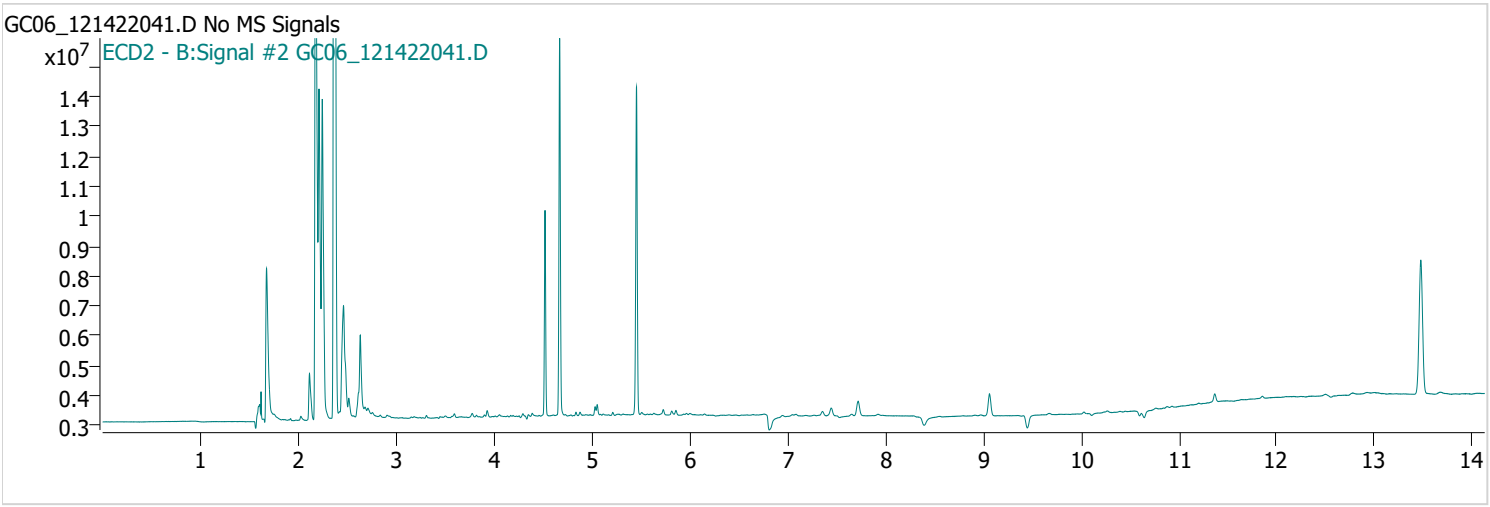
ISTD (CCV gc06_121422036)	Ch	CCV RT	BLANK RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.52	4.52	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.28	4.28	0.00

Analyst: TRN 12/15/22 **Reviewer:** LW 12/15/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_121422041.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/15/2022 12:18:10 AM
Sample Name	QC1031899, 303182, 1	Instrument	SVOA-GC06
Vial	24	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_11.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	121422PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



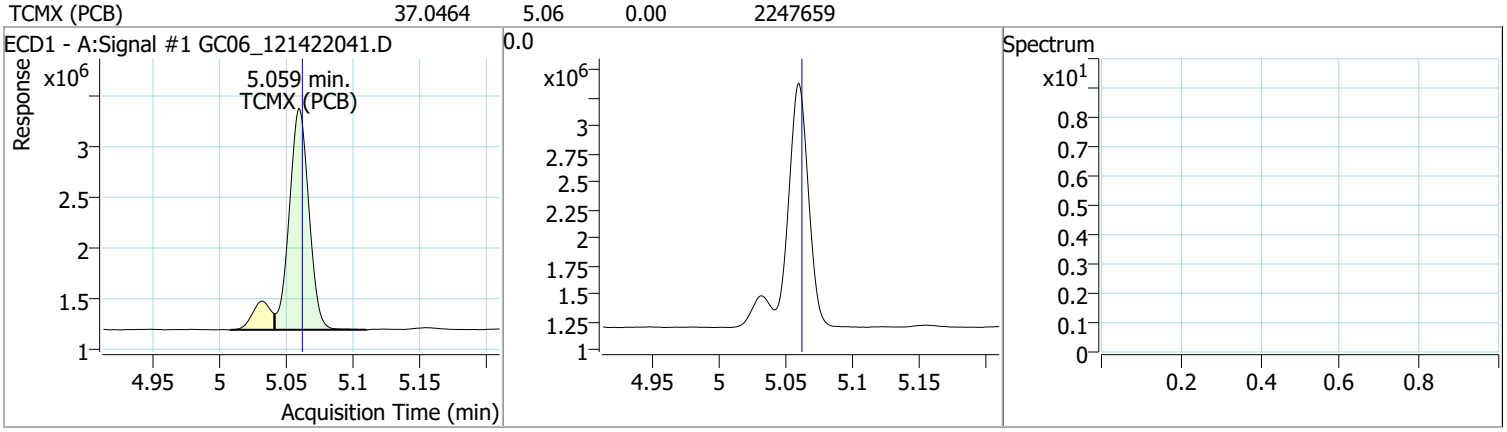


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.284	0.0	1261934.203	20.0000	ng/ml		-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.522	0.0	6052908.818	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.059	0.0	2247659.258	37.0464	ng/ml		-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 185.23%		*	
S TCMX (PCB) #2	5.457	0.0	11784594.068	40.5403	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 202.70%		*	
S Decachlorobiphenyl (PCB)	12.071	0.0	3249283.193	38.1607	ng/ml		-0.007
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 190.80%		*	
S Decachlorobiphenyl (PCB) #2	13.472	0.0	11167814.484	34.1607	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 170.80%		*	
Target Compounds							QValue

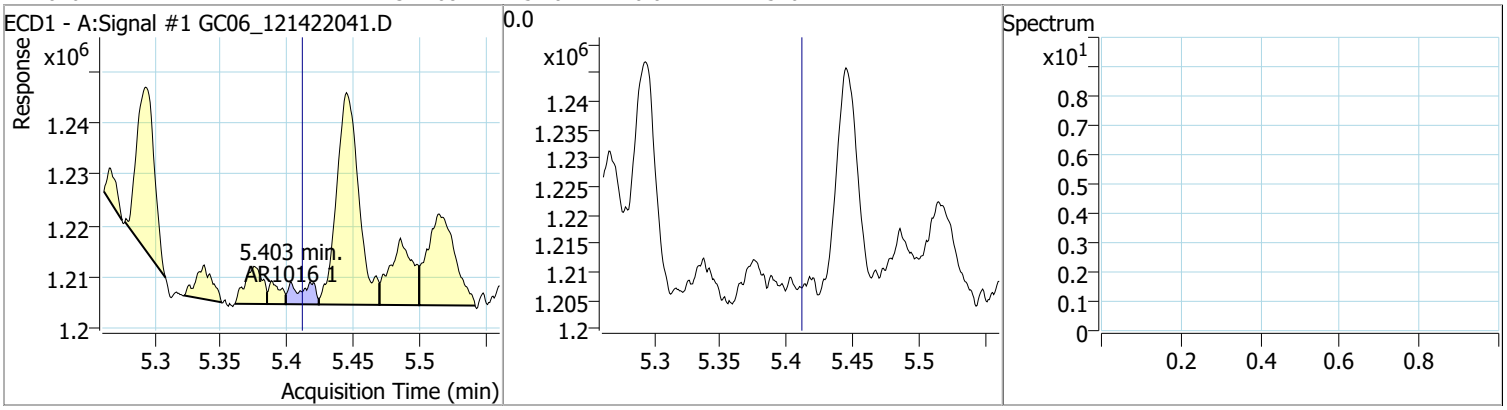
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.403	0.0	4525.871	3.4208	ng/ml	100
T AR1016 2	5.743	0.0	17760.513	0.0000	ng/ml	100
T AR1016 1 #2	5.938	0.0	49054.098	7.7976	ng/ml	100
T AR1016 3	6.202	0.0	15051.100	4.4869	ng/ml	100
T AR1016 4	6.348	0.0	3192.254	1.2512	ng/ml	100
T AR1016 2 #2	6.403	0.0	91677.509	10.0953	ng/ml	100
T AR1016 5	6.666	0.0	642624.652	312.7219	ng/ml	100
T AR1016 3 #2	7.088	0.0	3063533.983	185.6613	ng/ml	100
T AR1016 4 #2	7.184	0.0	55513.769	4.7126	ng/ml	100
T AR1016 5 #2	7.273	0.0	50361.655	5.2595	ng/ml	100
T AR1260 1	8.740	0.0	245457.756	57.5297	ng/ml	100
T AR1260 2	9.243	0.0	440.805	0.0678	ng/ml	100
T AR1260 3	9.740	0.0	80865.498	11.8970	ng/ml	100
T AR1260 1 #2	10.029	0.0	387889.266	21.5334	ng/ml	100
T AR1260 4	10.116	0.0	291668.031	65.8023	ng/ml	100
T AR1260 2 #2	10.263	0.0	214973.925	9.9325	ng/ml	100
T AR1260 3 #2	10.616	0.0	144999.390	5.2927	ng/ml	100
T AR1260 5	10.887	0.0	226547.223	11.8393	ng/ml	100
T AR1260 4 #2	11.123	0.0	19742.237	0.0000	ng/ml	100
T AR1260 5 #2	11.367	0.0	593597.601	7.4143	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

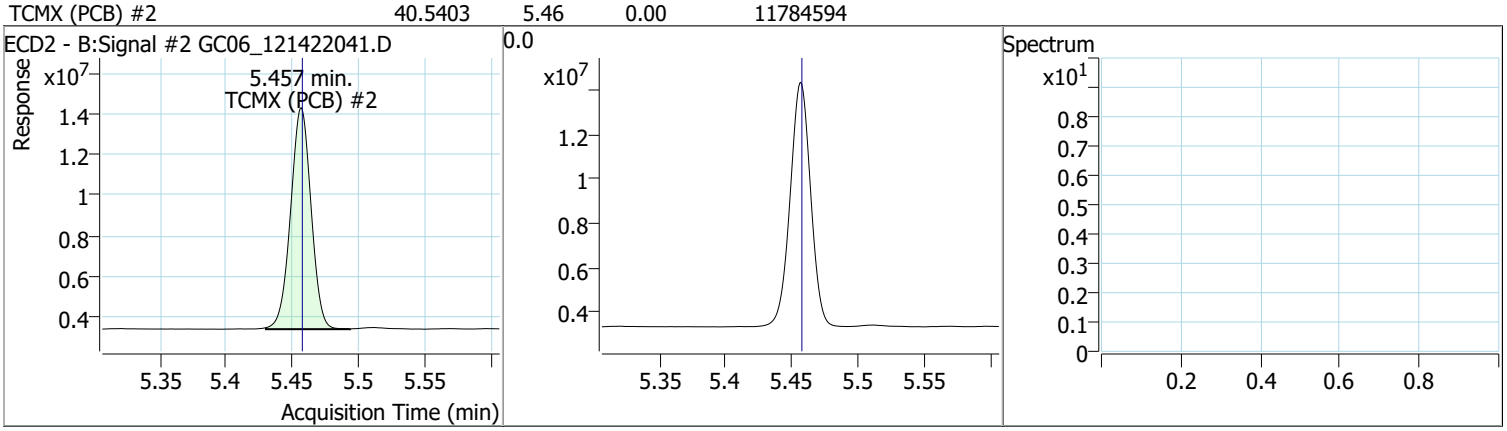
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	37.0464	5.06	0.00	2247659				



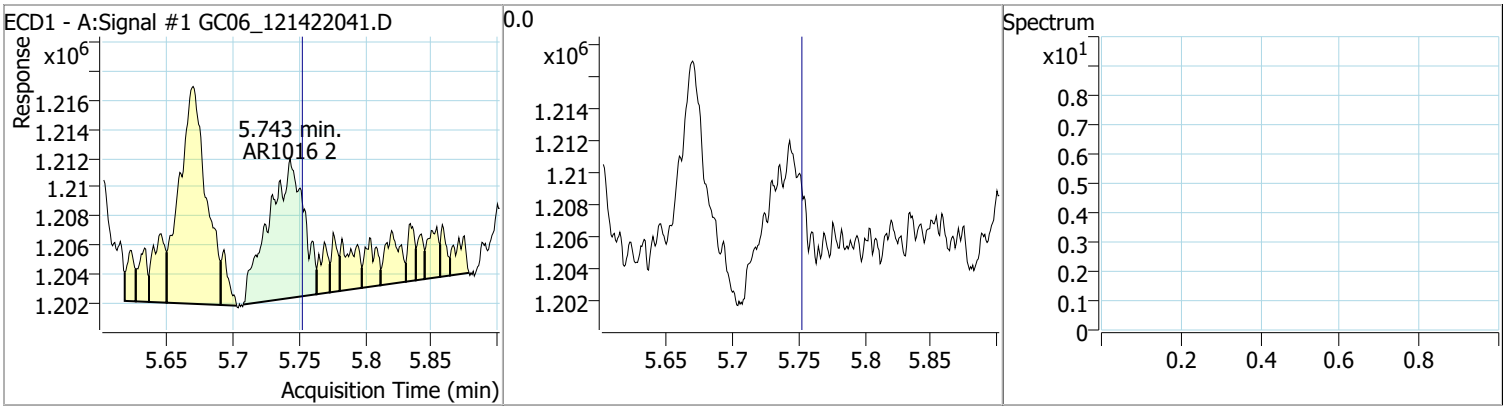
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	3.4208	5.40	-0.01	4526				



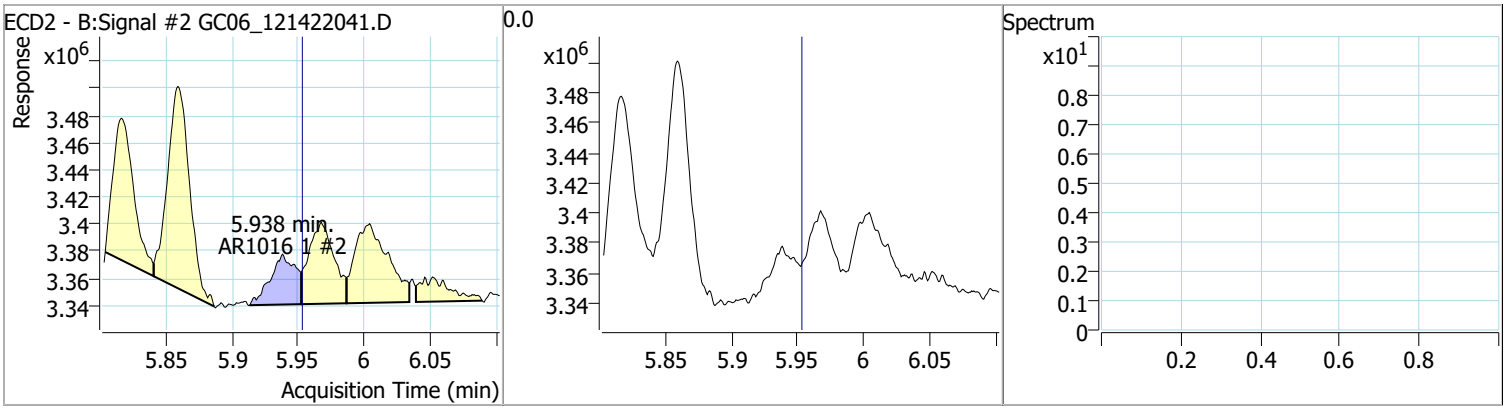
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	40.5403	5.46	0.00	11784594				



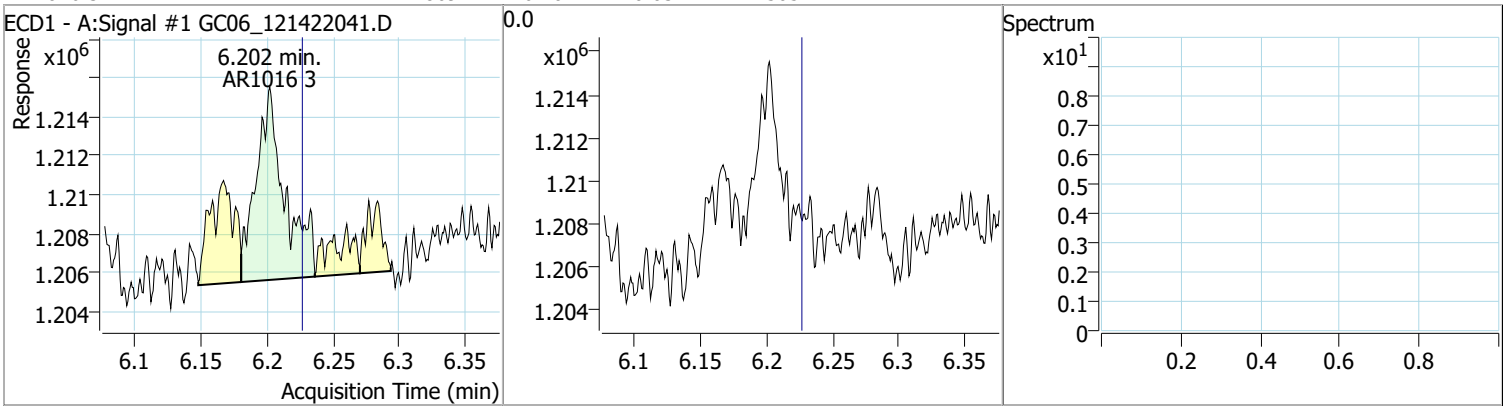
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.74	-0.01	17761				



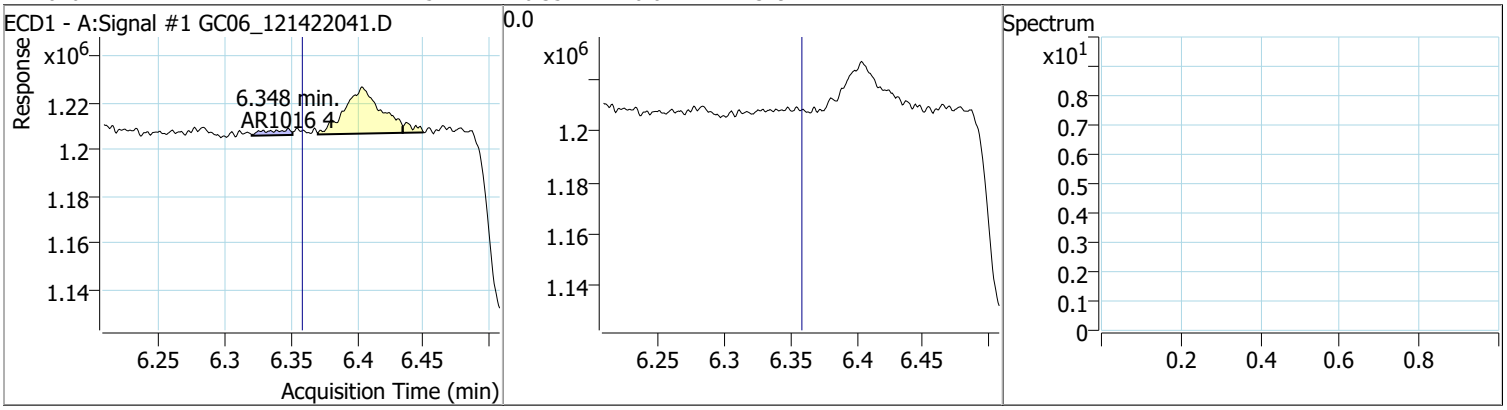
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	7.7976	5.94	-0.02	49054				



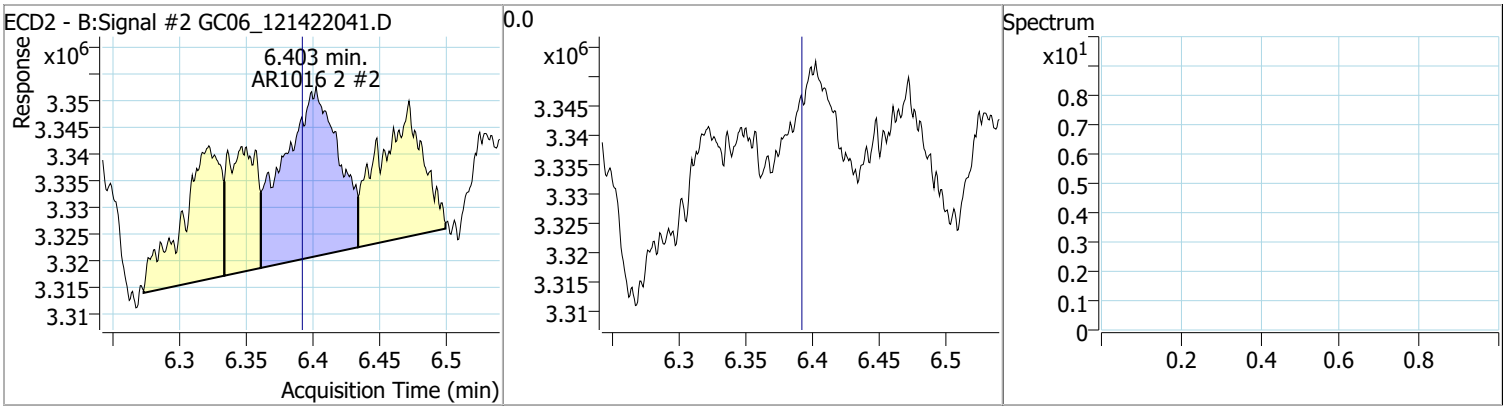
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	4.4869	6.20	-0.03	15051				



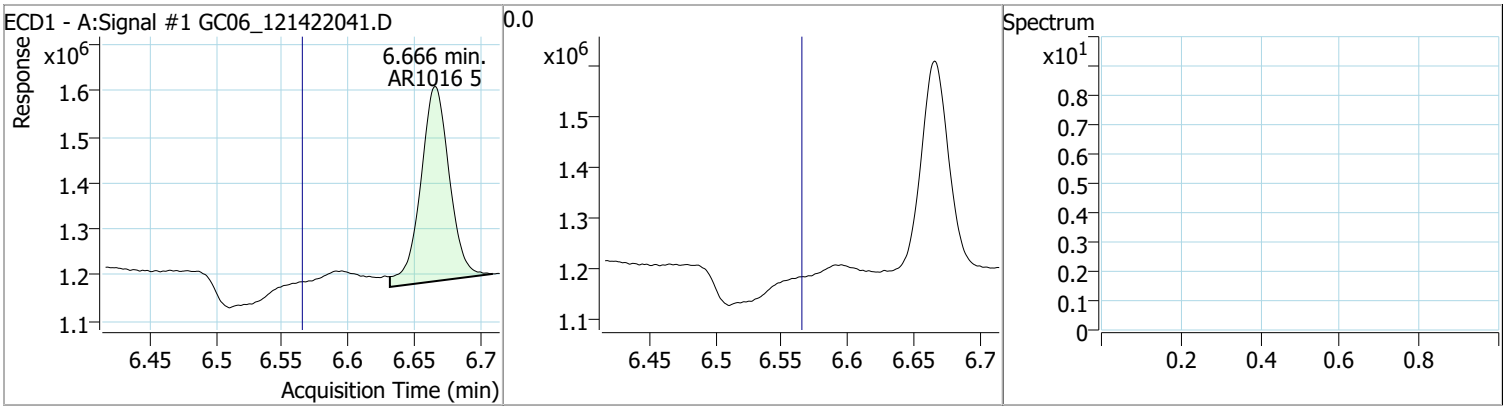
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1.2512	6.35	-0.01	3192				



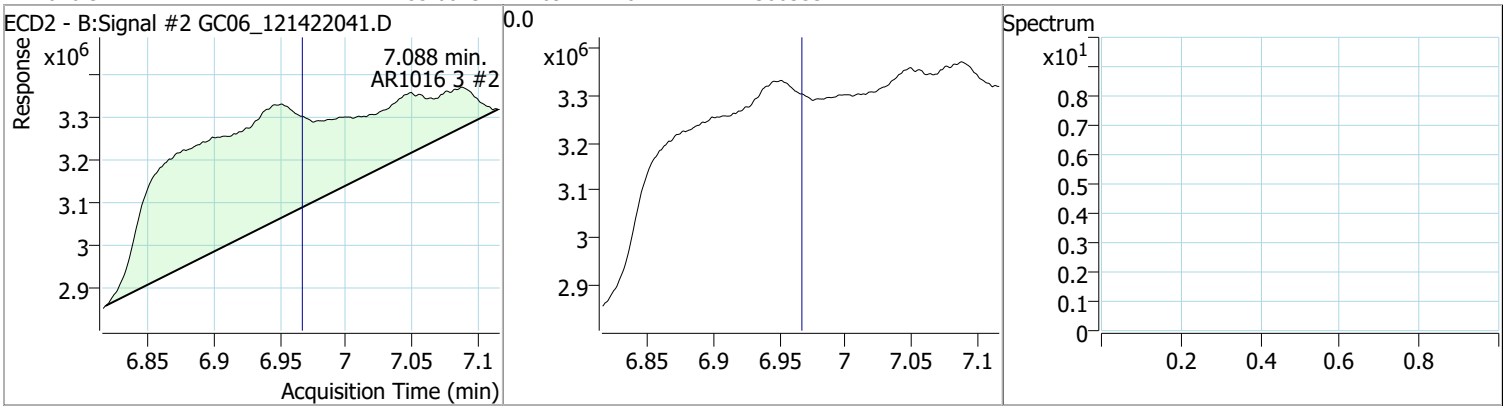
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	10.0953	6.40	0.01	91678				



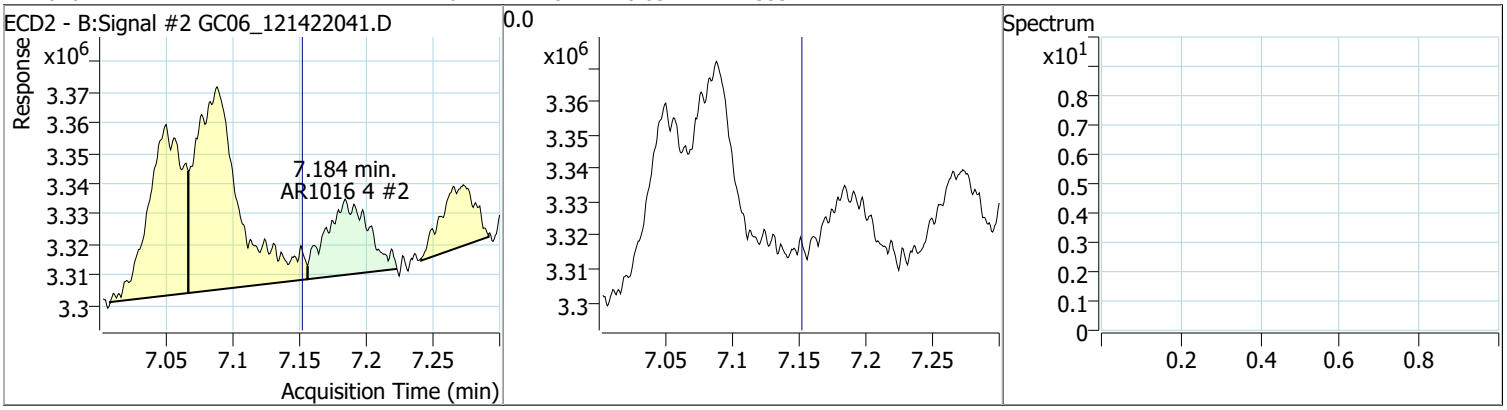
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	312.7219	6.67	0.10	642625				



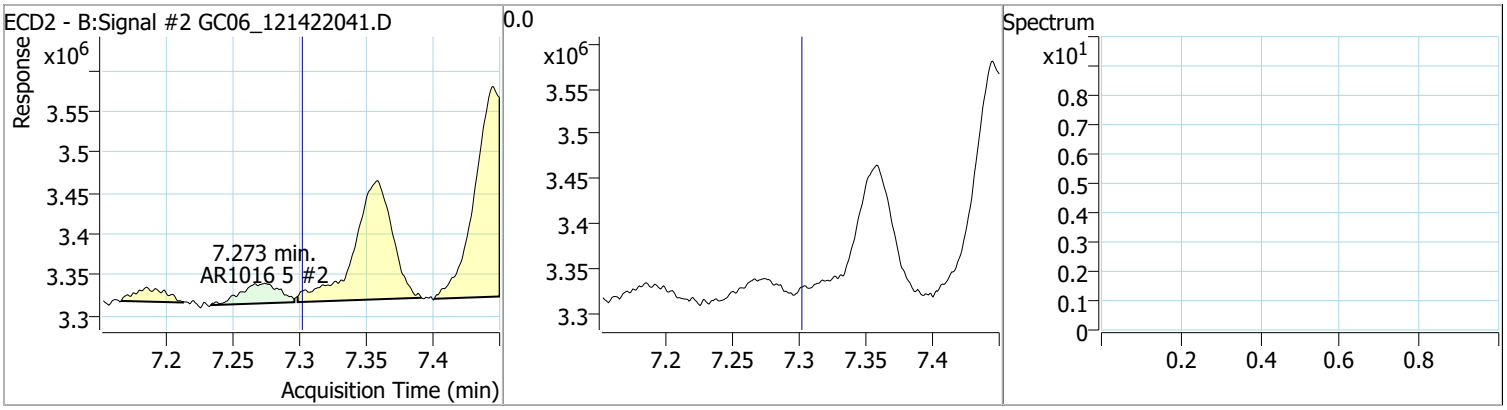
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	185.6613	7.09	0.12	3063534				



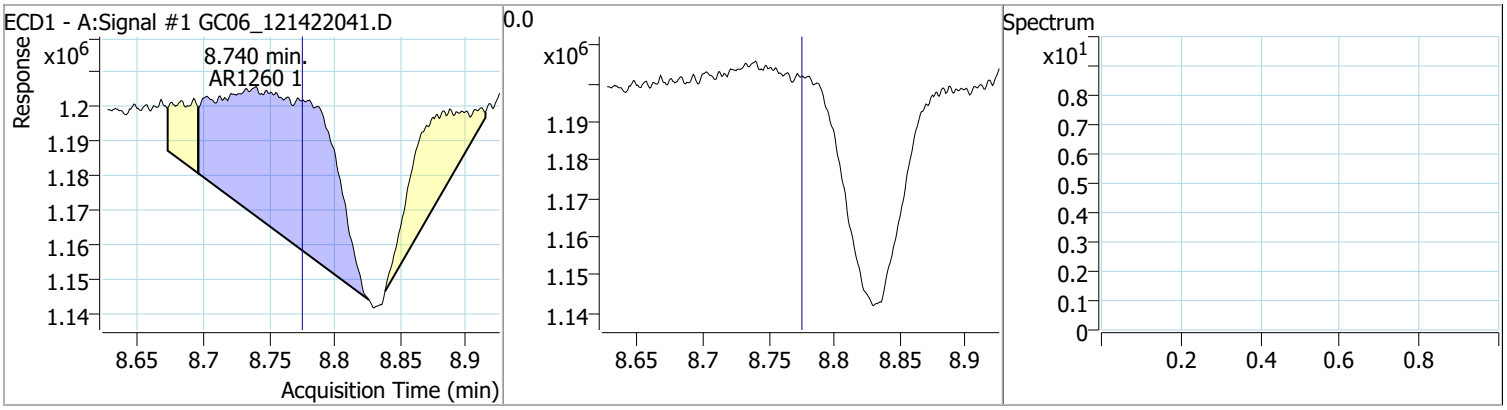
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	4.7126	7.18	0.03	55514				



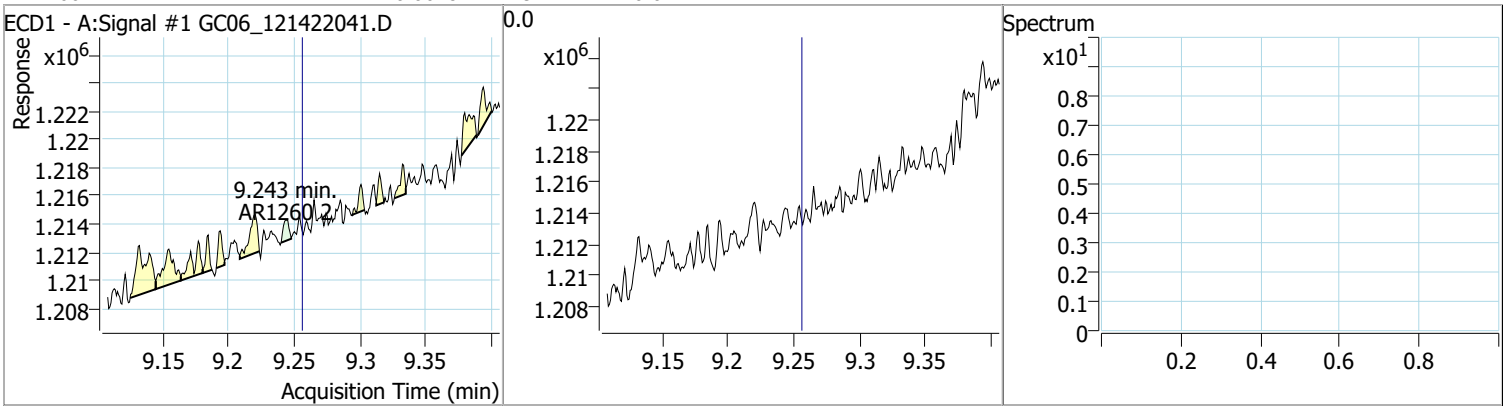
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	5.2595	7.27	-0.03	50362				



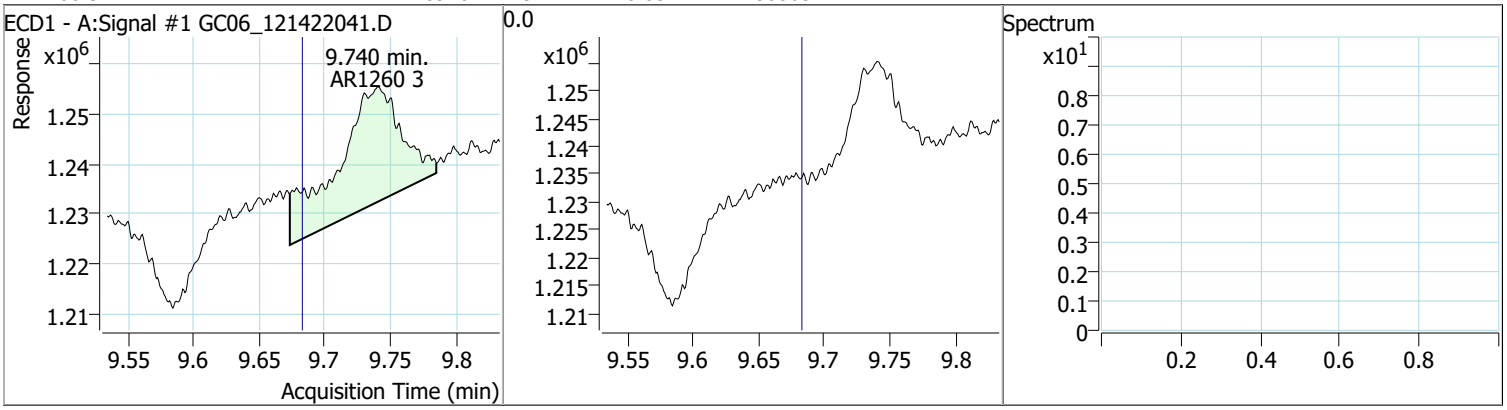
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	57.5297	8.74	-0.04	245458				



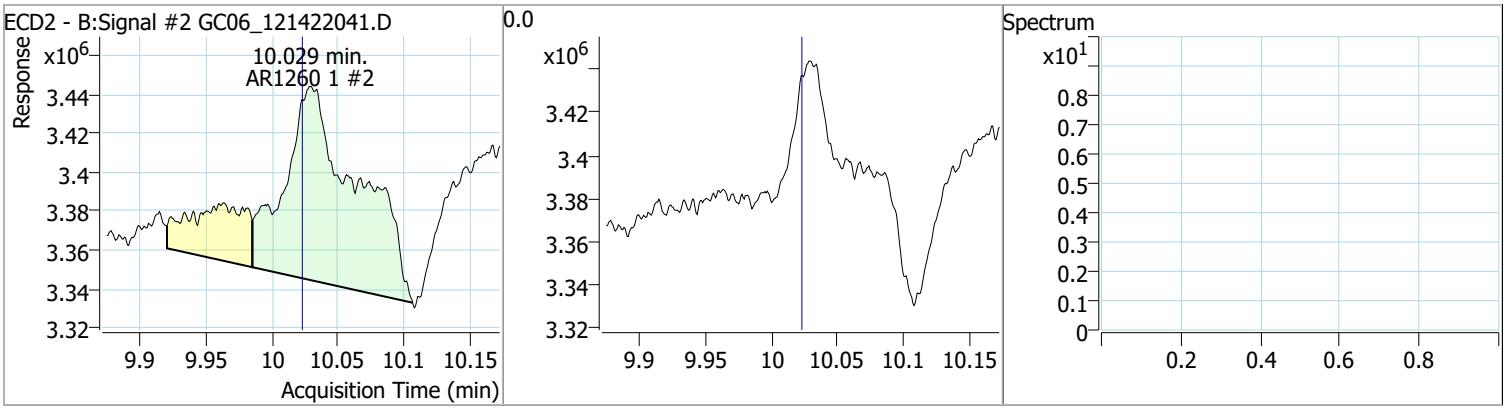
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.0678	9.24	-0.02	441				



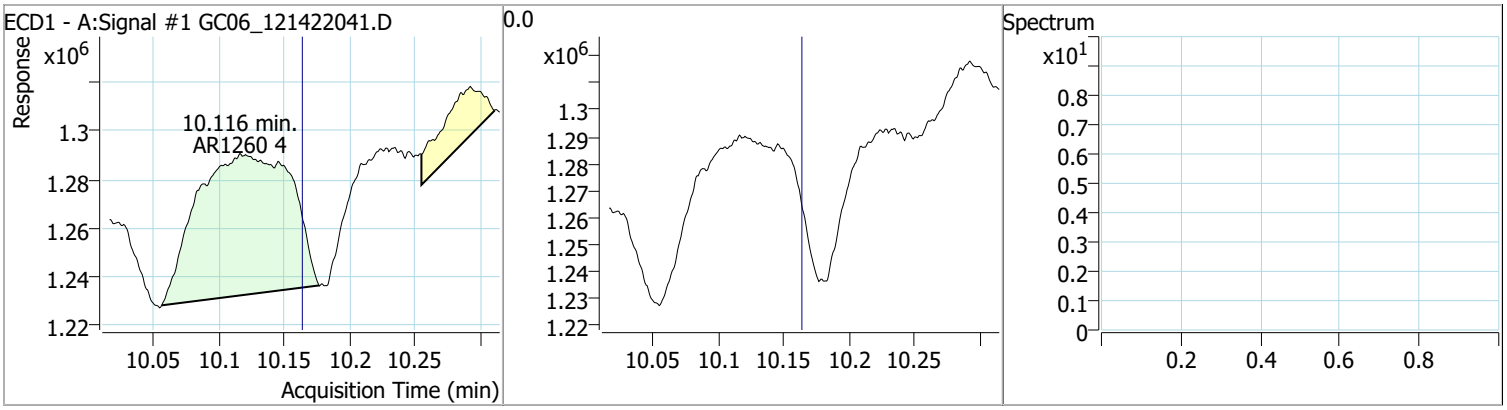
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	11.8970	9.74	0.05	80865				



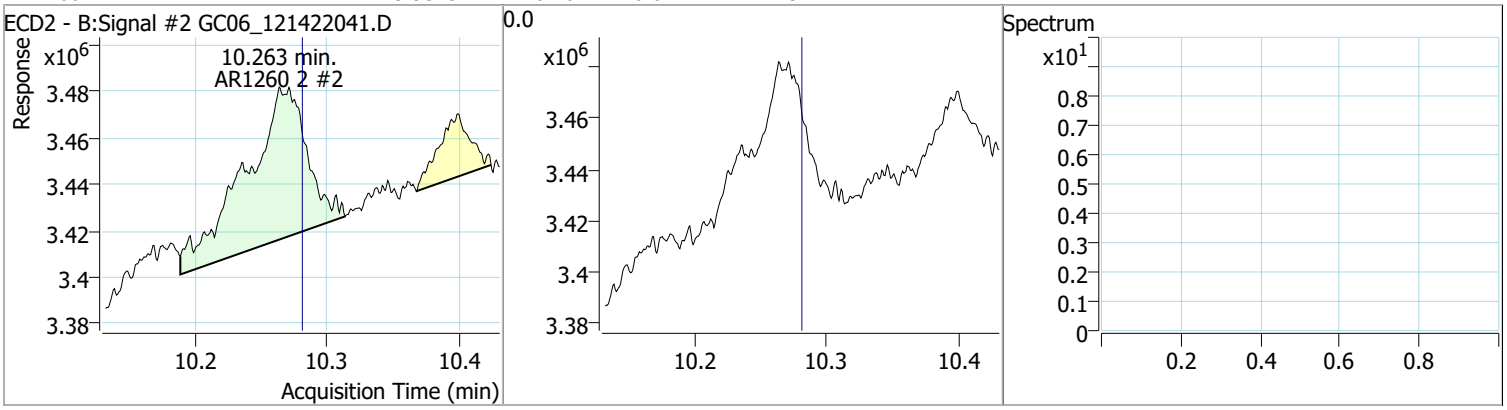
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	21.5334	10.03	0.00	387889				



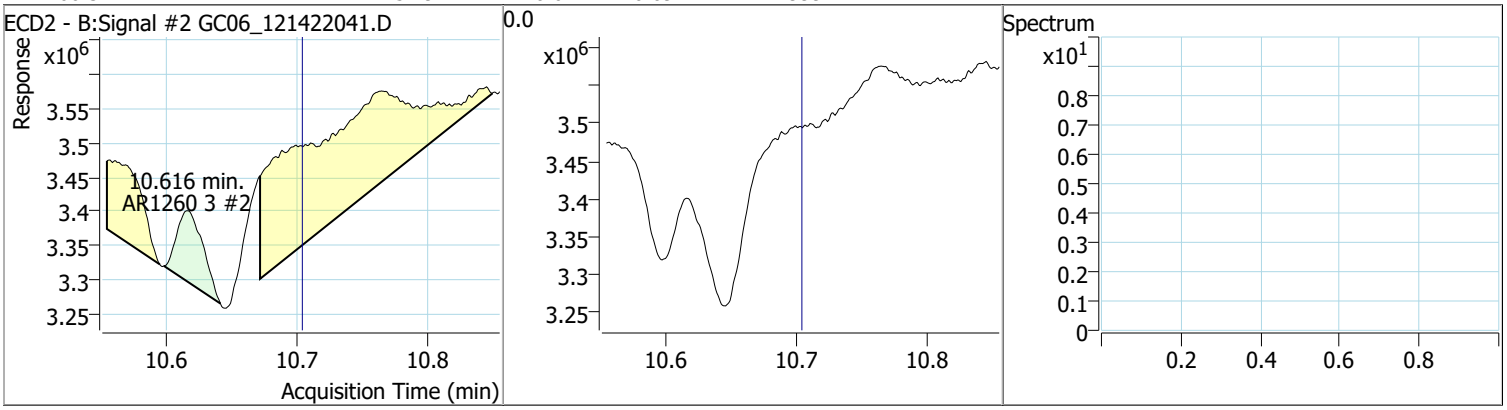
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	65.8023	10.12	-0.05	291668				



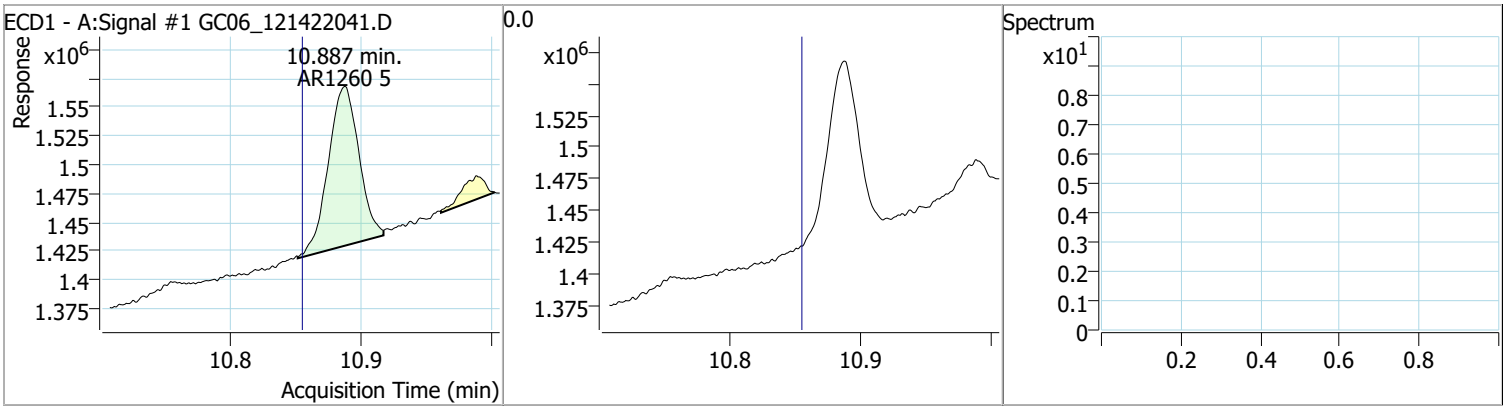
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	9.9325	10.26	-0.02	214974				



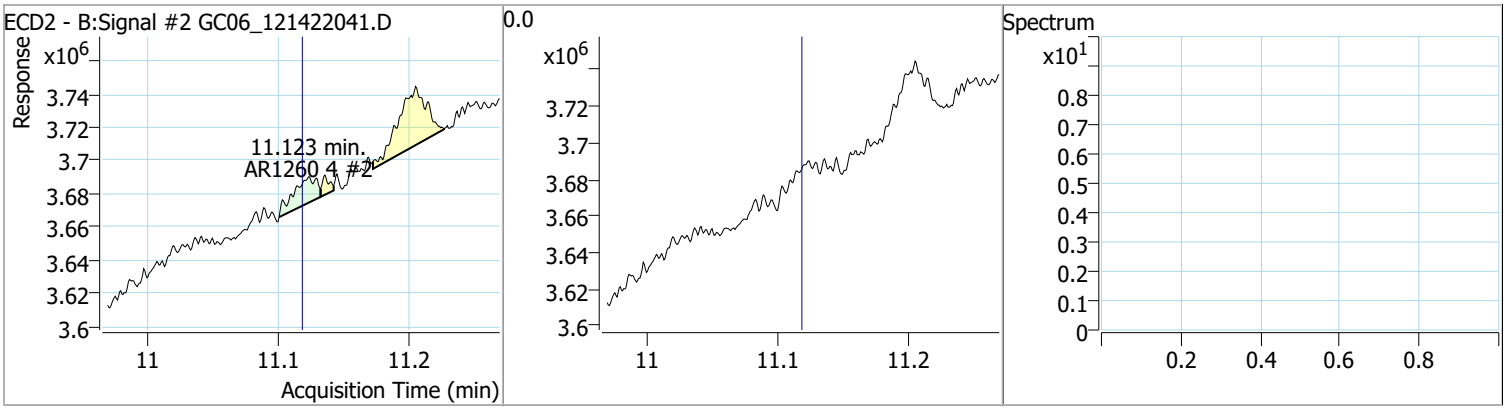
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	5.2927	10.62	-0.09	144999				



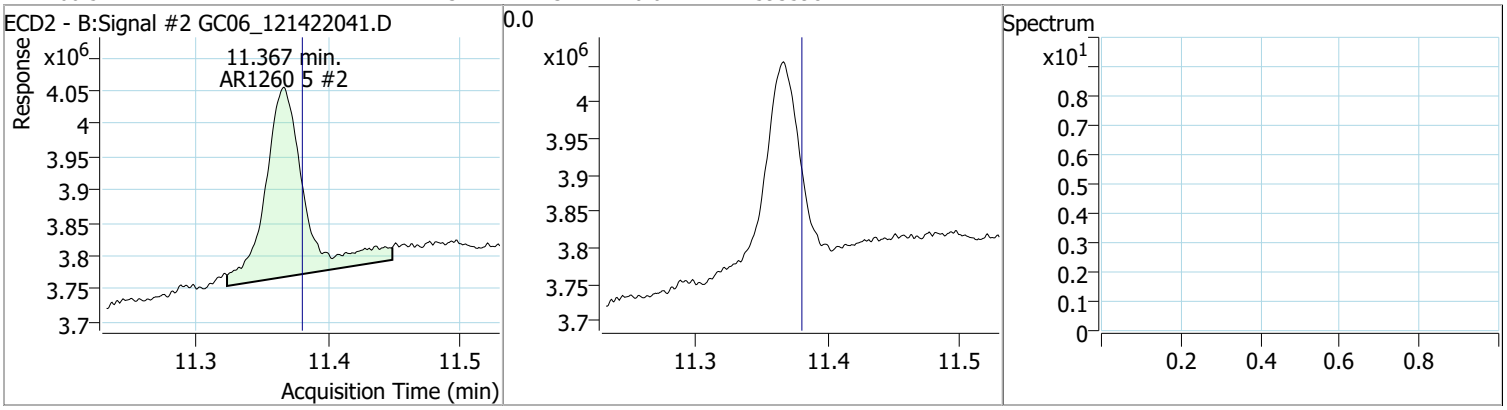
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	11.8393	10.89	0.03	226547				



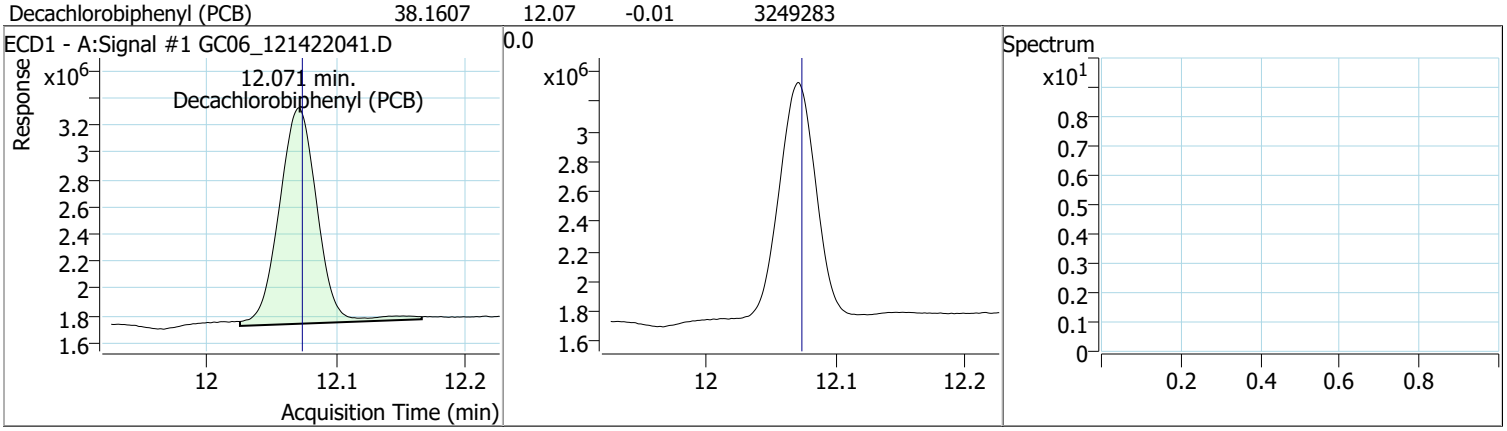
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	0.0000	11.12	0.00	19742				



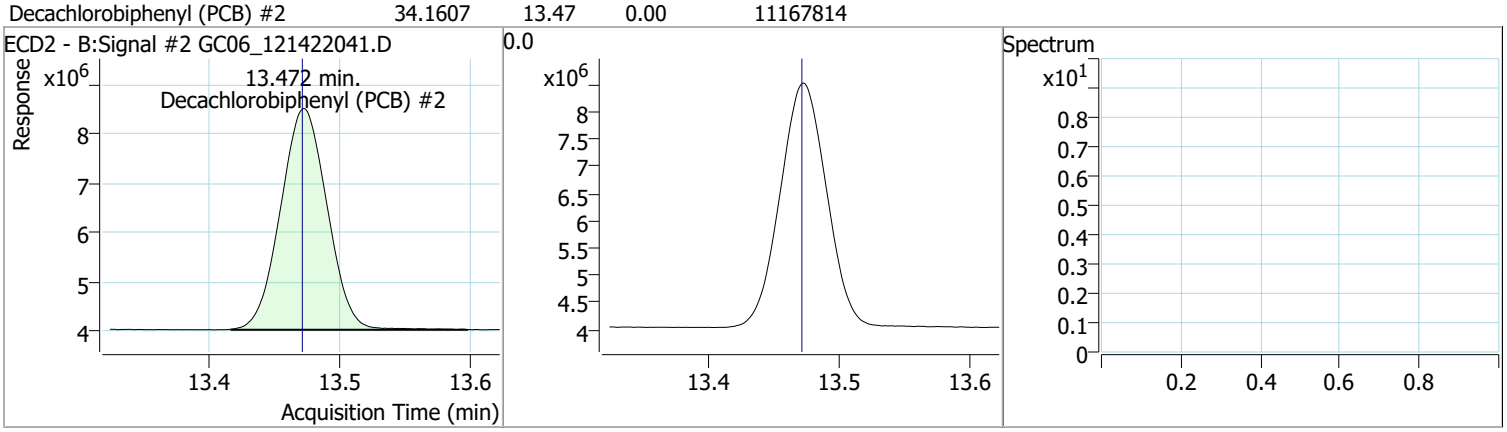
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	7.4143	11.37	-0.02	593598				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	38.1607	12.07	-0.01	3249283				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	34.1607	13.47	0.00	11167814				



ENTHALPY SPIKE USER REPORT FOR 474713 PCBS Wipe

EPA 8082

Type:	BS	Type:	BSD
Inst:	SVOA-GC06	Inst:	SVOA-GC06
Seqnum:	452501809042.2	Seqnum:	452501809043.2
File:	gc06_121422042	File:	gc06_121422043
IDF:	1.0	IDF:	1.0
Lab ID:	QC1031900	Lab ID:	QC1031901
Matrix:	Wipe	Matrix:	Wipe
Batch:	303182	Batch:	303182
Time:	15-DEC-2022 00:36	Time:	15-DEC-2022 00:54
Cal:	452428510002	Cal:	452428510002
Units:	ug/dm2		

- BS: 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF
- BSD: 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Aroclor-1016	5.000	391.0	3.910	B	78	467.2	4.672	B	93	60-140	18	20	u
Aroclor-1016 Peak # 1		370.1	3.701	B		445.1	4.451	B					
Aroclor-1016 Peak # 2		543.6	5.436	B		643.7	6.437	B					
Aroclor-1016 Peak # 3		385.9	3.859	B		449.3	4.493	B					
Aroclor-1016 Peak # 4		367.1	3.671	B		445.6	4.456	B					
Aroclor-1016 Peak # 5		288.1	2.881	B		352.4	3.524	B					
Aroclor-1260	5.000	378.0	3.780	B	76	446.8	4.468	B	89	60-140	17	20	u
Aroclor-1260 Peak # 1		355.5	3.555	B		429.7	4.297	B					
Aroclor-1260 Peak # 2		357.8	3.578	B		436.5	4.365	B					
Aroclor-1260 Peak # 3		340.3	3.403	B		407.1	4.071	B					
Aroclor-1260 Peak # 4		348.3	3.483	B		378.5	3.785	B					
Aroclor-1260 Peak # 5		488.1	4.881	B		582.2	5.822	B					
Surrogates													
TCMX (PCB)	0.5000	37.12	0.3712	B	74	45.52	0.4552	B	91	19-121			u
Decachlorobiphenyl (PCB)	0.5000	31.71	0.3171	B	63	39.43	0.3943	B	79	19-121			c+ u

ISTD (CCV gc06_121422036)	Ch	CCV Abund	BS Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	5560467	5715755	2.79
1-bromo-2-nitrobenzene (PCB)	A	1170615	1210075	3.37

ISTD (CCV gc06_121422036)	Ch	CCV RT	BS RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.52	4.52	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.28	4.28	0.00

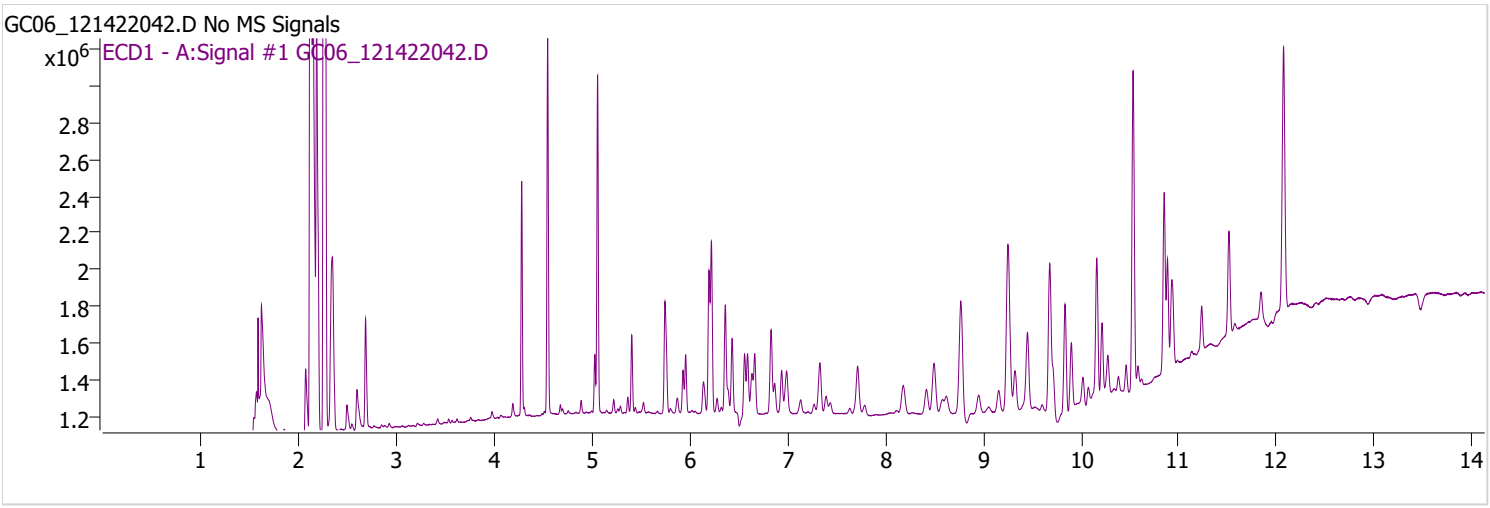
ISTD (CCV gc06_121422036)	Ch	CCV Abund	BSD Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	5560467	5420568	-2.52
1-bromo-2-nitrobenzene (PCB)	A	1170615	1156450	-1.21

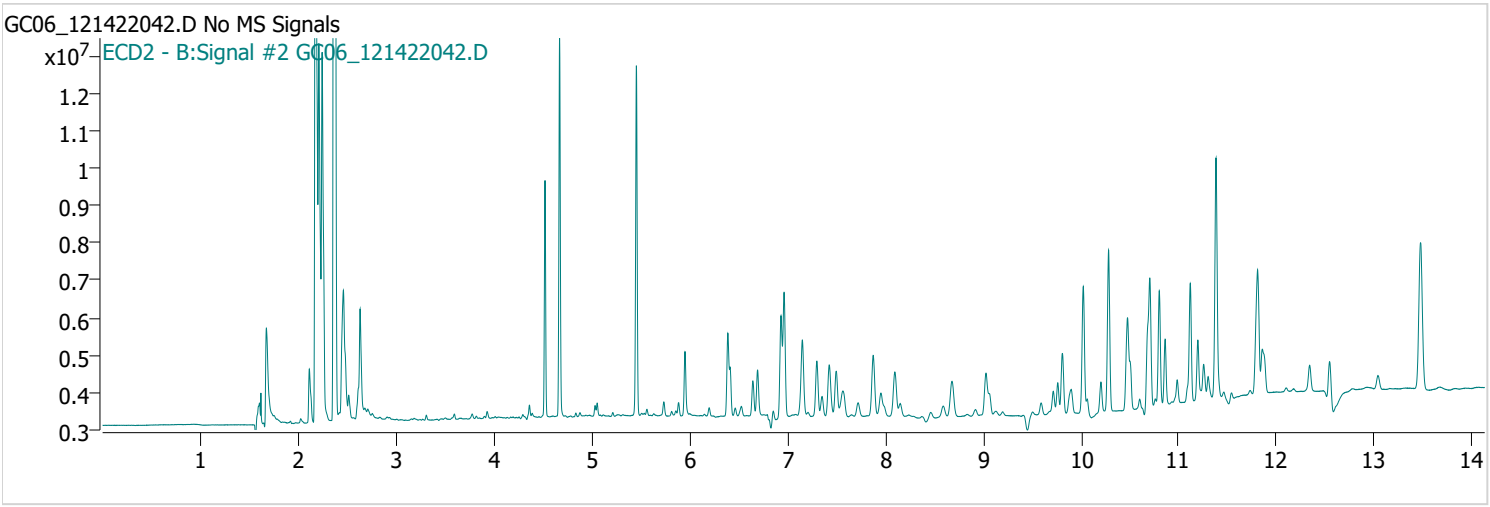
ISTD (CCV gc06_121422036)	Ch	CCV RT	BSD RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.52	4.52	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.28	4.28	0.00

Analyst: TRN 12/15/22 **Reviewer:** LW 12/15/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_121422042.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/15/2022 12:36:27 AM
Sample Name	QC1031900, 303182, 1	Instrument	SVOA-GC06
Vial	25	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_11.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	121422PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



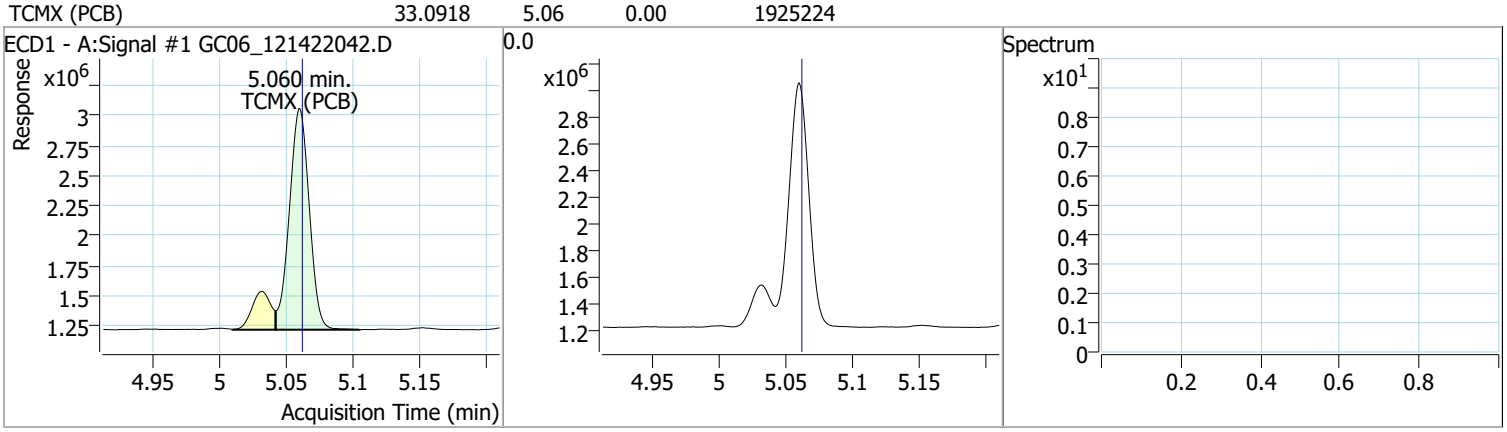


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.284	0.0	1210074.998	20.0000	ng/ml		-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.523	0.0	5715755.202	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.060	0.0	1925223.577	33.0918	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 165.46%		*	
S TCMX (PCB) #2	5.456	0.0	10189302.759	37.1200	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 185.60%		*	
S Decachlorobiphenyl (PCB)	12.071	0.0	2926877.805	35.5854	ng/ml		-0.007
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 177.93%		*	
S Decachlorobiphenyl (PCB) #2	13.471	0.0	9833233.023	31.7099	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 158.55%		*	
Target Compounds							QValue

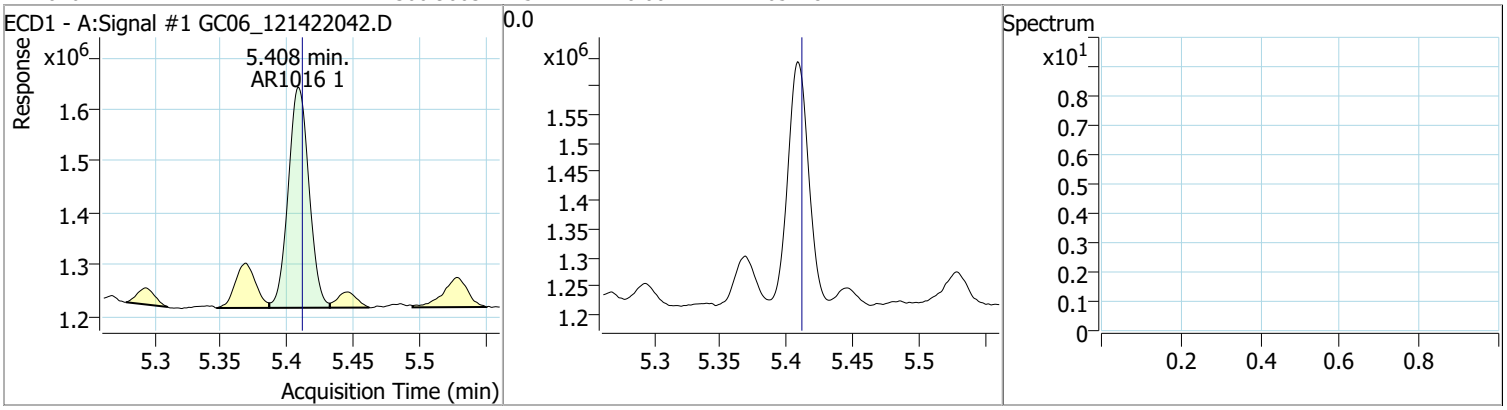
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.408	0.0	465477.927	366.9003	ng/ml	100
T AR1016 2	5.748	0.0	1020425.106	389.1285	ng/ml	100
T AR1016 1 #2	5.953	0.0	2198877.668	370.1497	ng/ml	100
T AR1016 3	6.223	0.0	1245519.407	387.2149	ng/ml	100
T AR1016 4	6.365	0.0	376239.535	153.7913	ng/ml	100
T AR1016 2 #2	6.391	0.0	4661818.496	543.6273	ng/ml	100
T AR1016 5	6.562	0.0	585796.369	297.2843	ng/ml	100
T AR1016 3 #2	6.965	0.0	6012953.389	385.9019	ng/ml	100
T AR1016 4 #2	7.152	0.0	4083268.268	367.0744	ng/ml	100
T AR1016 5 #2	7.301	0.0	2605202.232	288.1245	ng/ml	100
T AR1260 1	8.772	0.0	1830639.307	447.4481	ng/ml	100
T AR1260 2	9.253	0.0	2273201.933	364.5377	ng/ml	100
T AR1260 3	9.681	0.0	2141611.989	328.5778	ng/ml	100
T AR1260 1 #2	10.023	0.0	6047951.776	355.5524	ng/ml	100
T AR1260 4	10.162	0.0	1357037.587	378.7556	ng/ml	100
T AR1260 2 #2	10.282	0.0	7313390.417	357.8344	ng/ml	100
T AR1260 3 #2	10.703	0.0	8803945.250	340.3160	ng/ml	100
T AR1260 5	10.850	0.0	1573778.199	198.7922	ng/ml	100
T AR1260 4 #2	11.117	0.0	5281762.687	348.3372	ng/ml	100
T AR1260 5 #2	11.380	0.0	10894583.306	488.0912	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

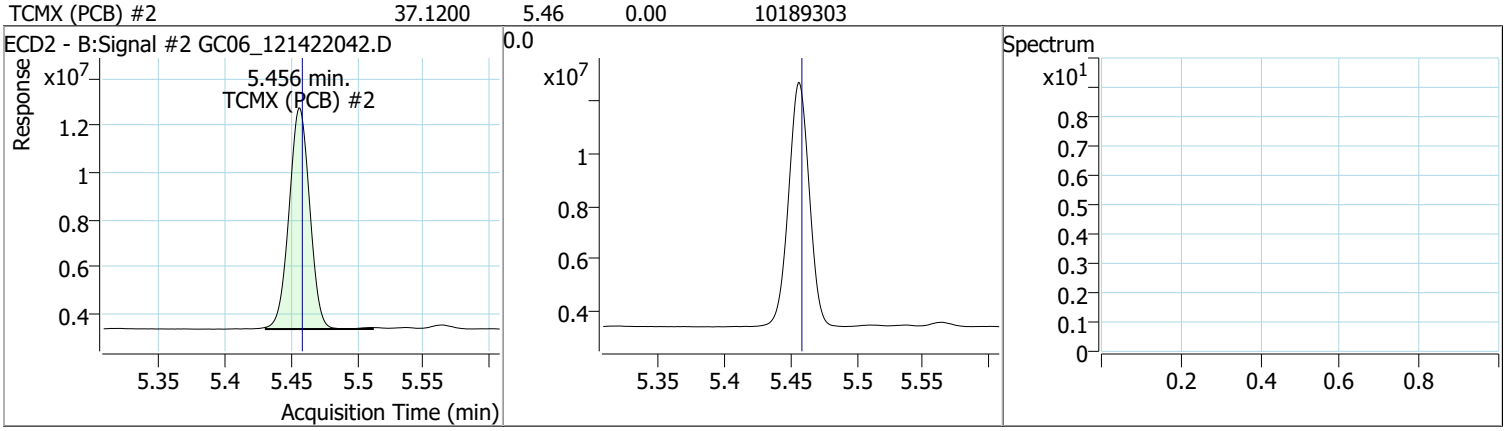
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	33.0918	5.06	0.00	1925224				



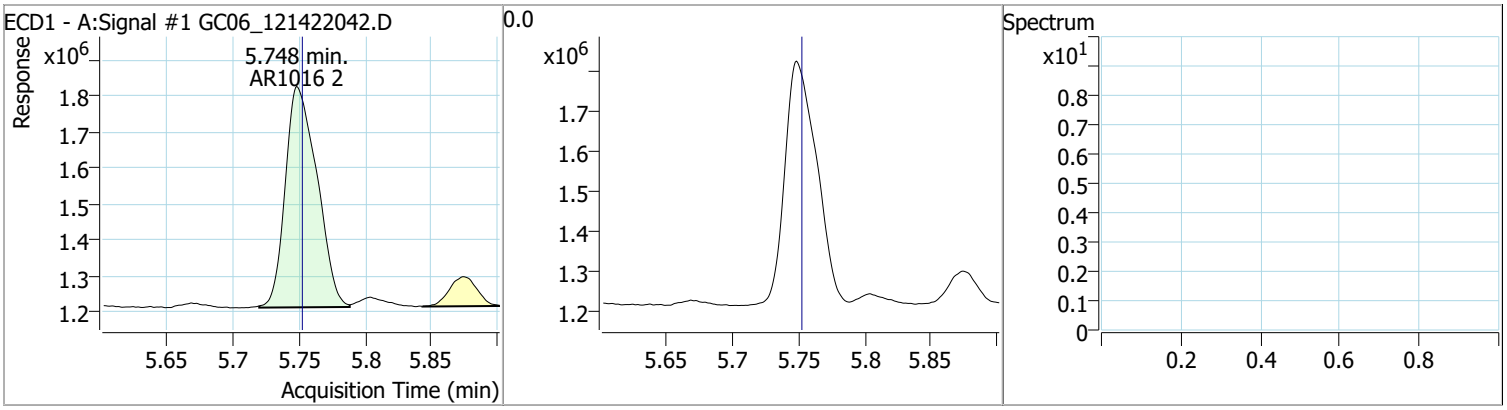
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	366.9003	5.41	0.00	465478				



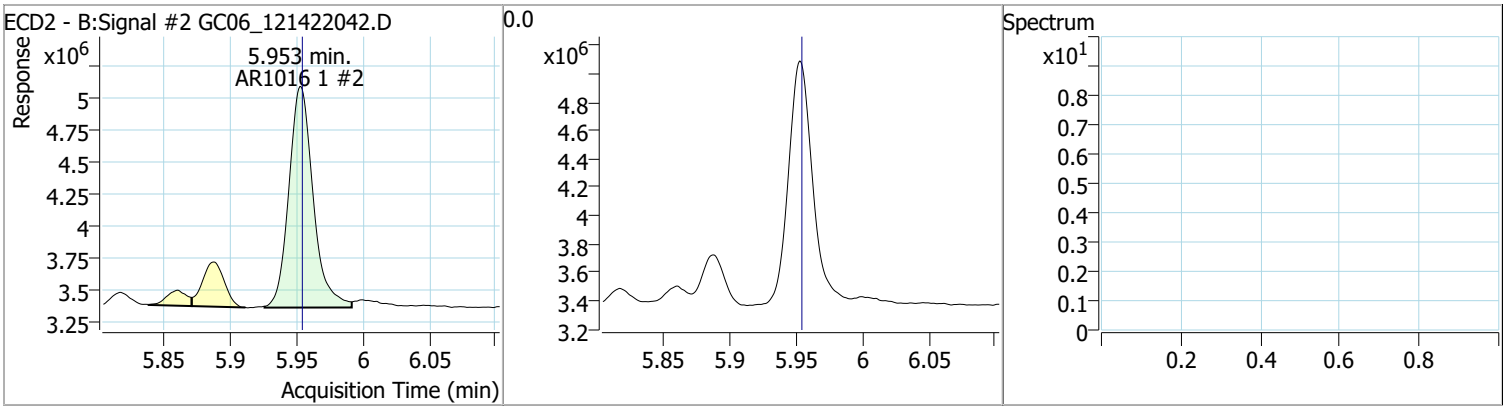
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	37.1200	5.46	0.00	10189303				



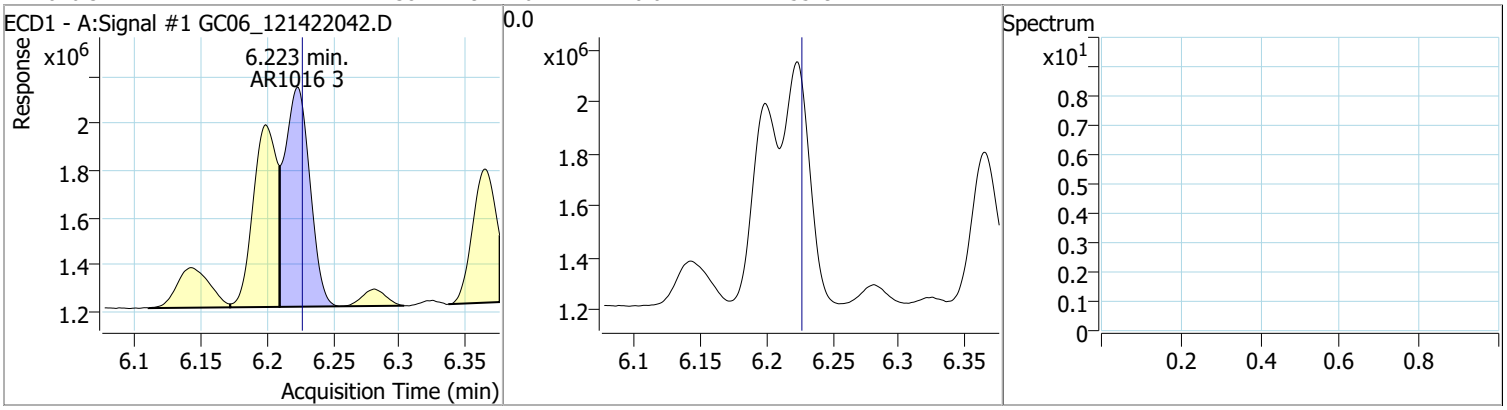
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	389.1285	5.75	-0.01	1020425				



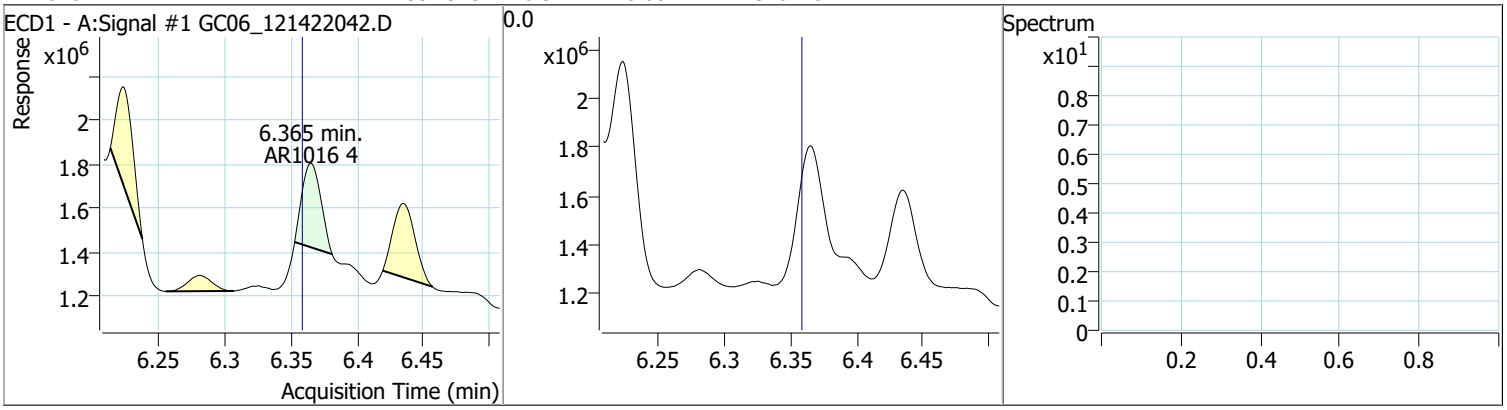
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	370.1497	5.95	0.00	2198878				



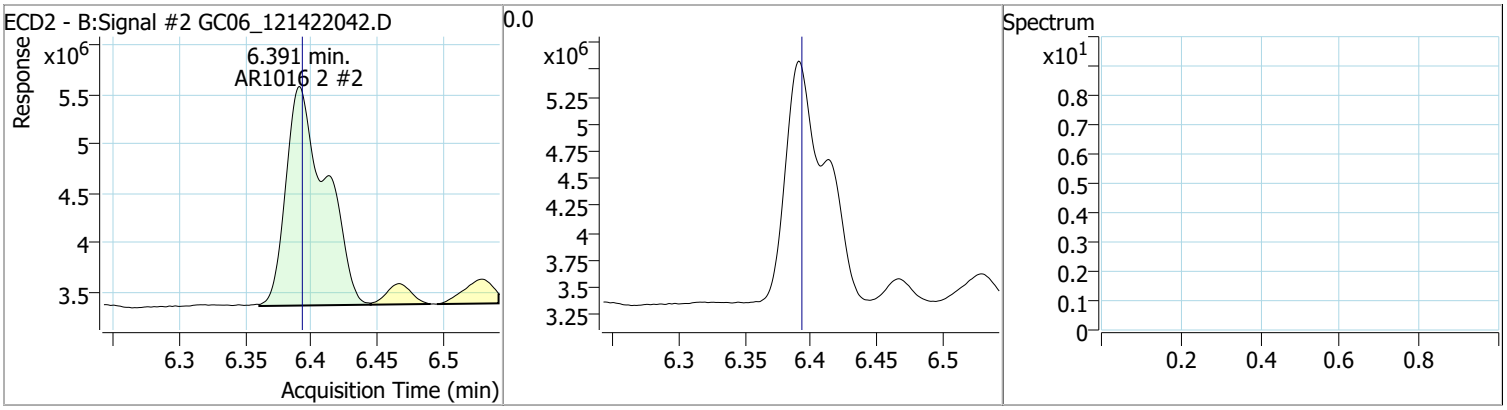
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	387.2149	6.22	-0.01	1245519				



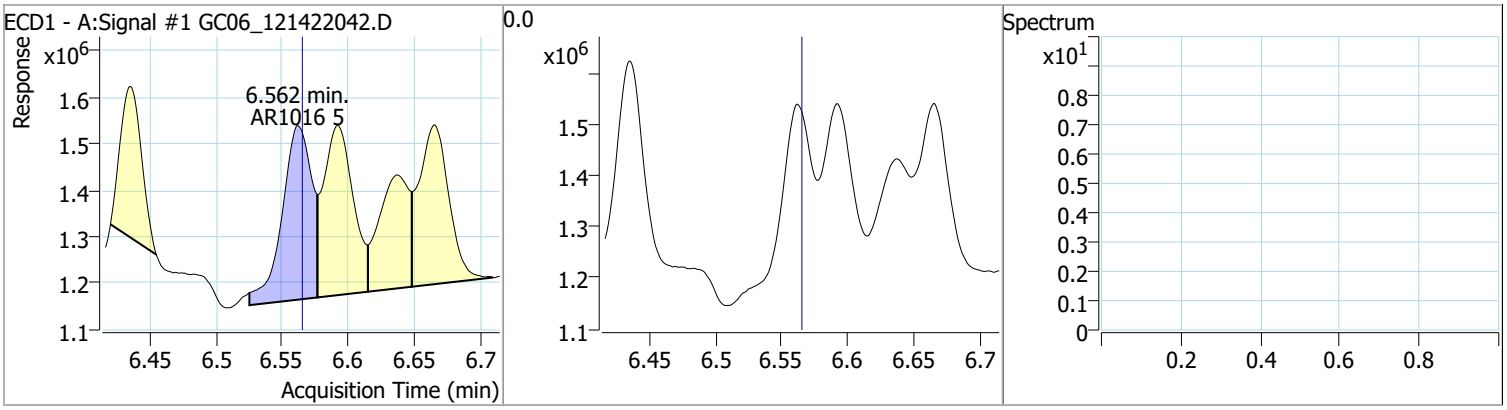
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	153.7913	6.37	0.00	376240				



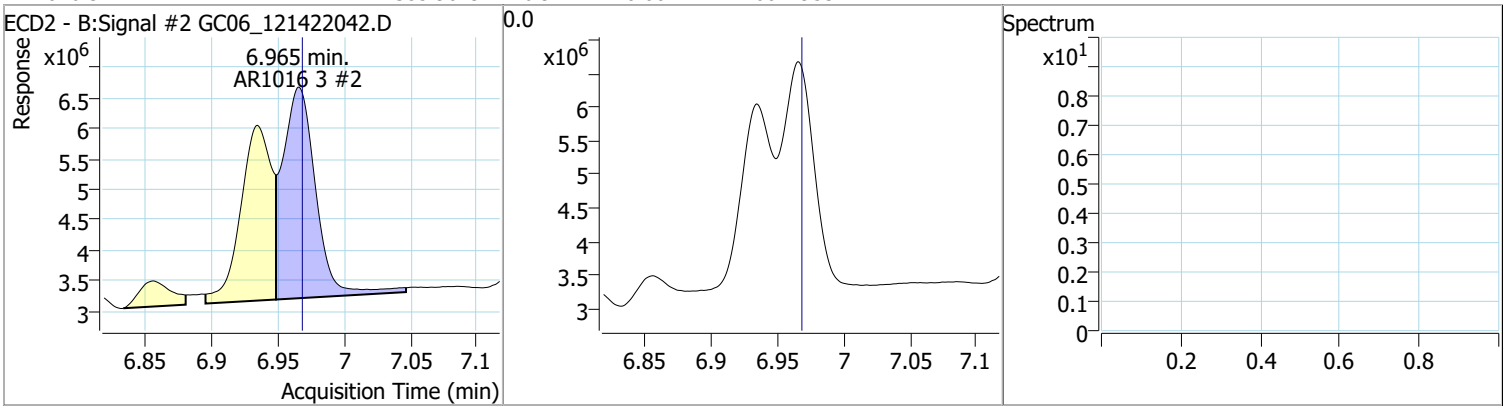
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	543.6273	6.39	0.00	4661818				



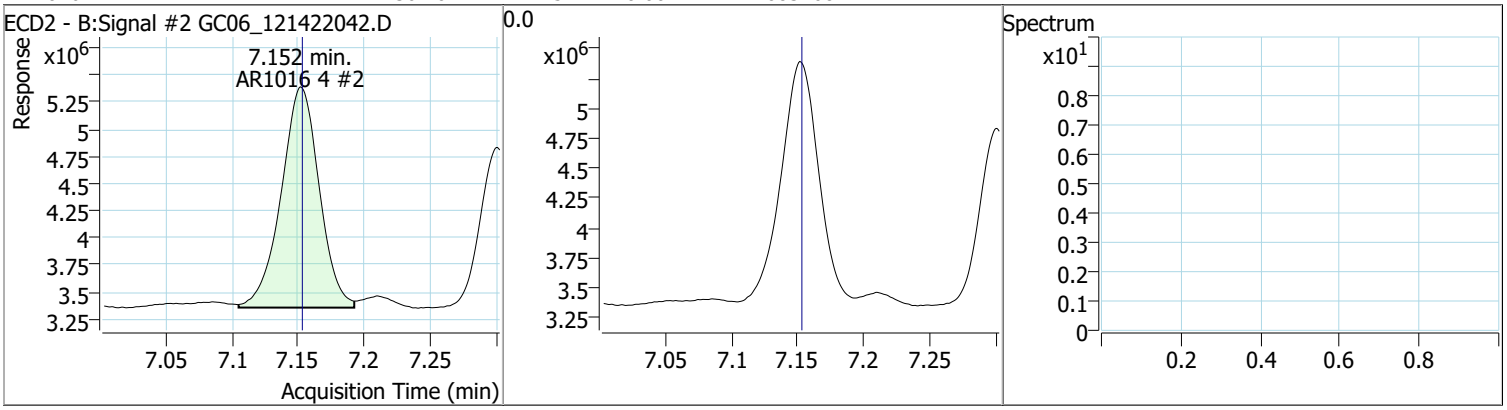
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	297.2843	6.56	-0.01	585796				



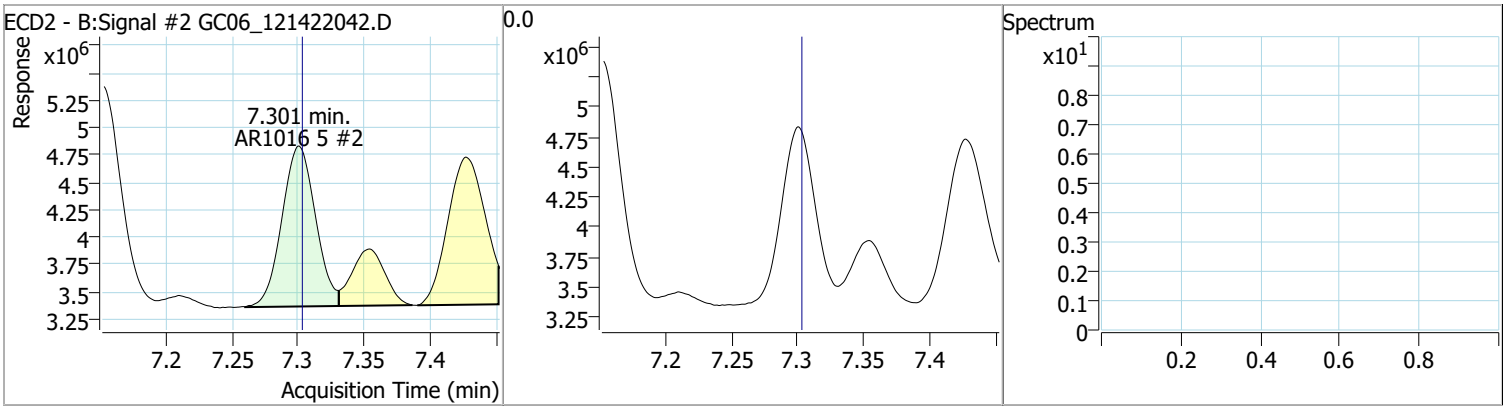
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	385.9019	6.97	0.00	6012953				



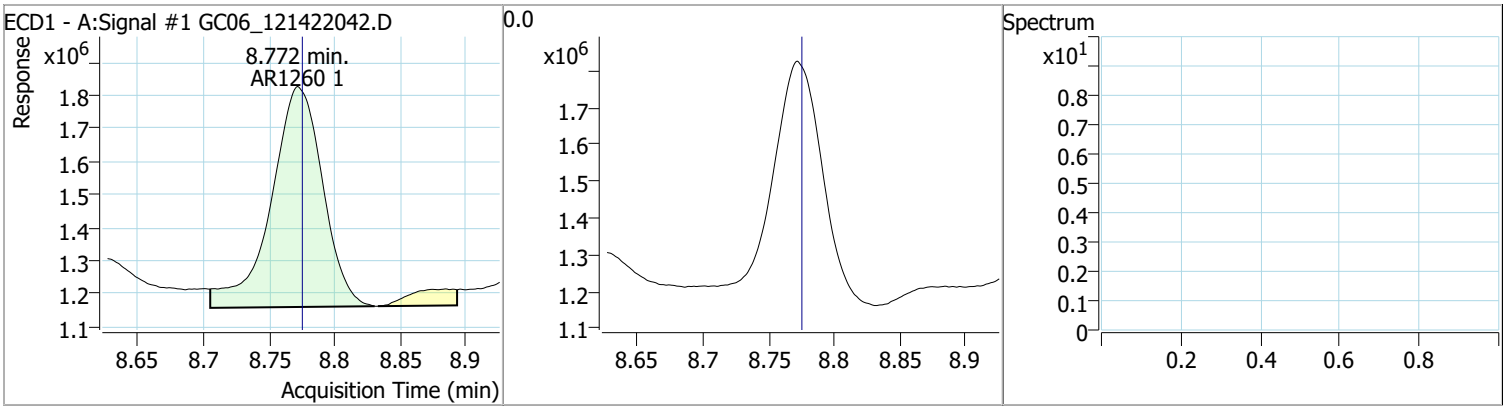
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	367.0744	7.15	0.00	4083268				



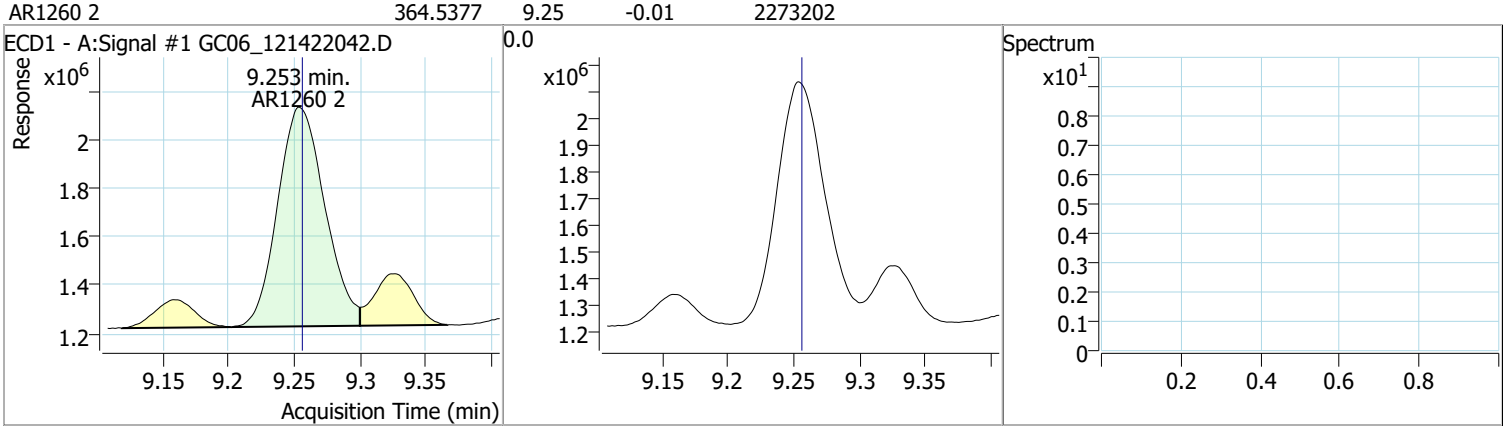
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	288.1245	7.30	0.00	2605202				



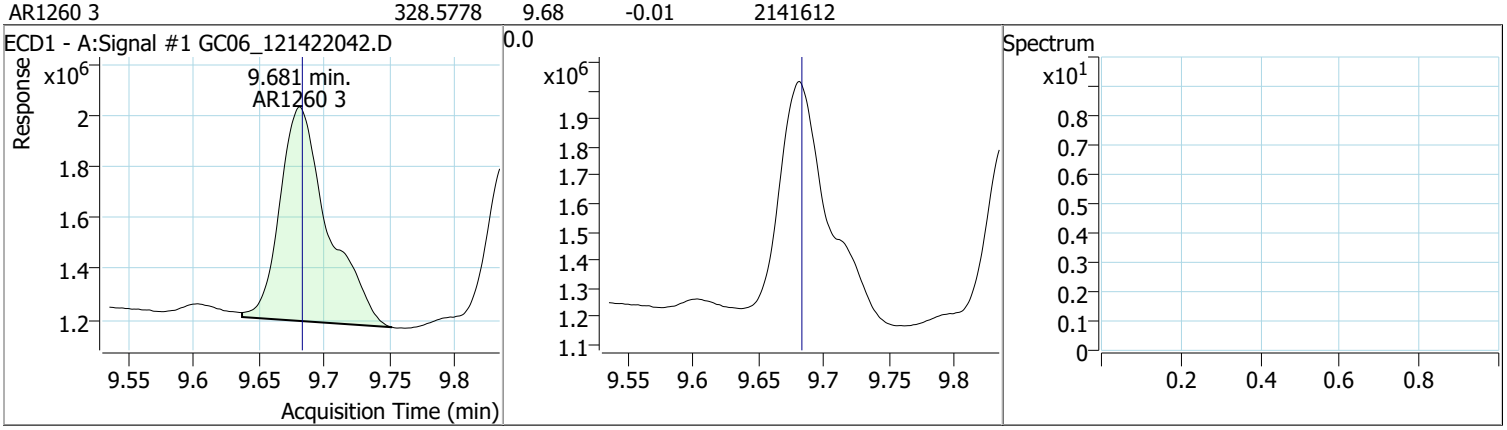
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	447.4481	8.77	-0.01	1830639				



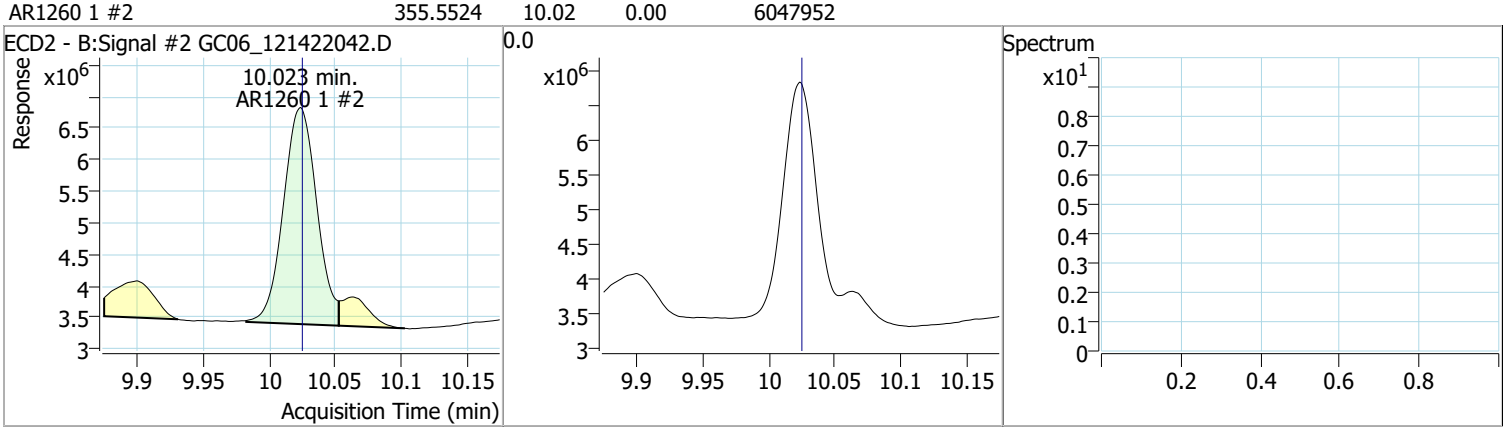
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AR1260 2	364.5377	9.25	-0.01	2273202				



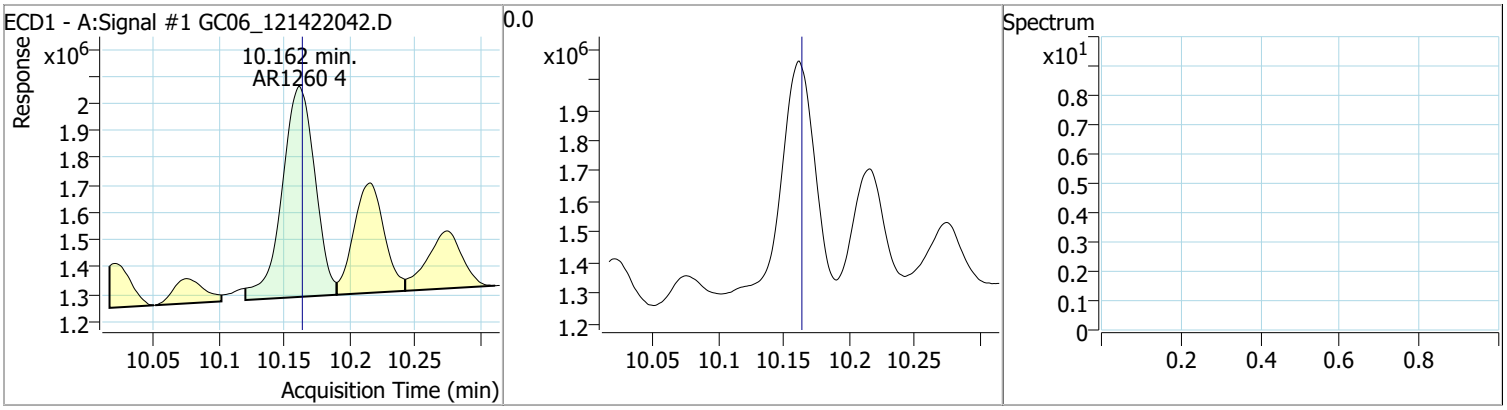
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	328.5778	9.68	-0.01	2141612				



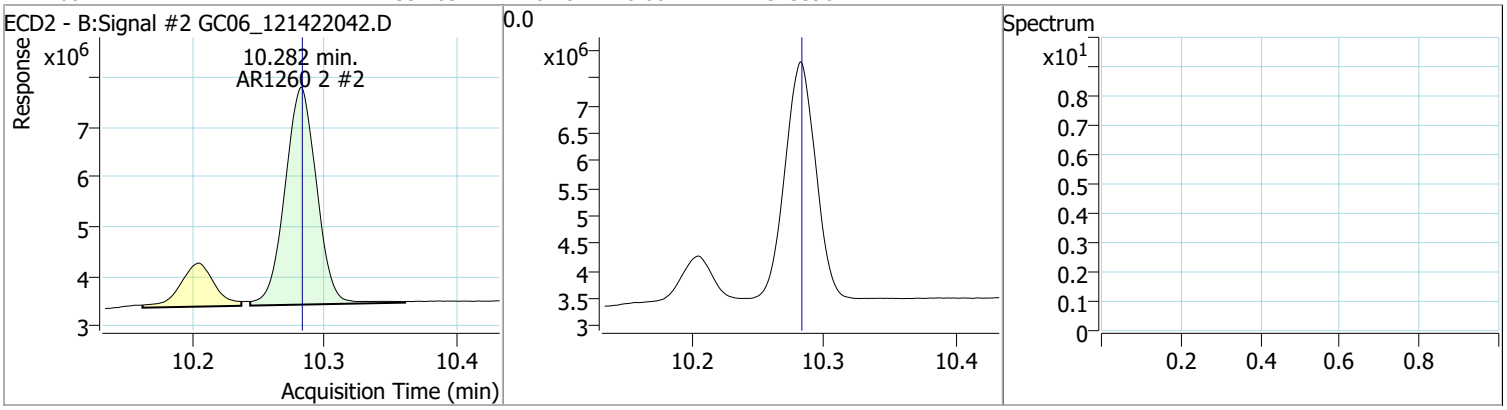
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	355.5524	10.02	0.00	6047952				



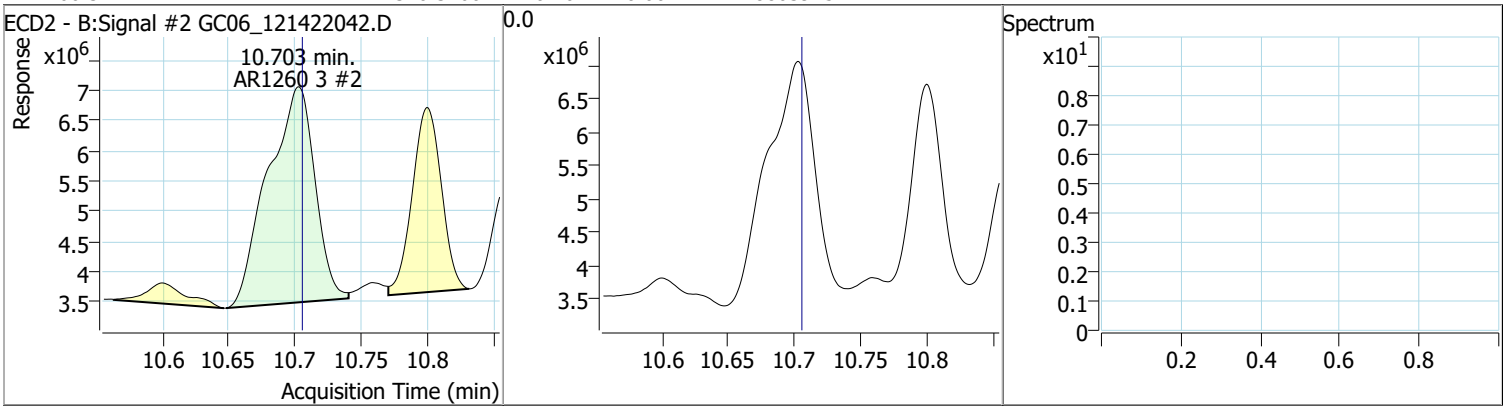
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	378.7556	10.16	-0.01	1357038				



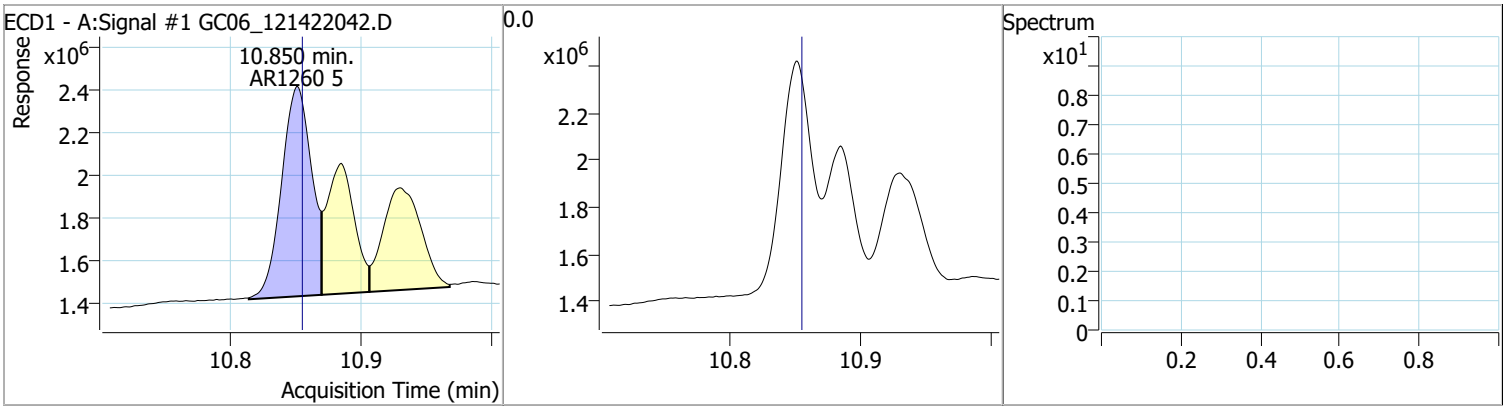
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	357.8344	10.28	0.00	7313390				



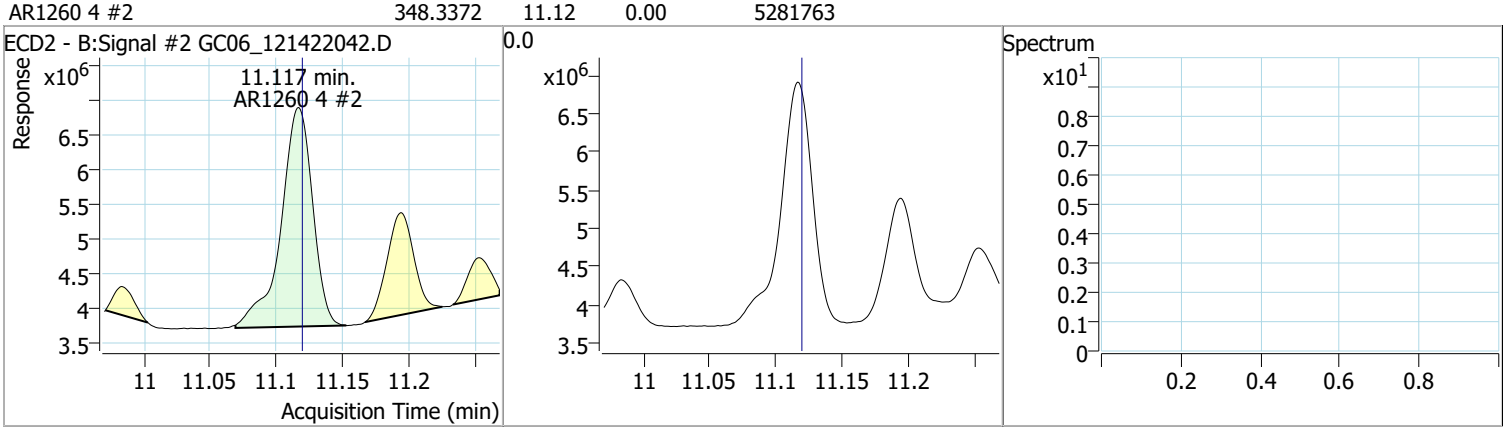
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	340.3160	10.70	0.00	8803945				



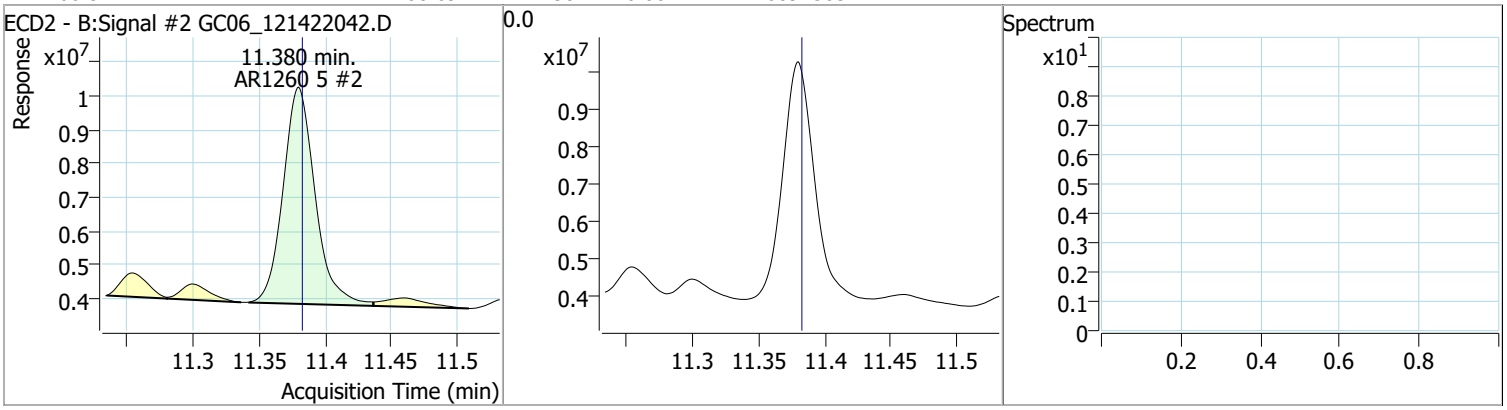
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	198.7922	10.85	-0.01	1573778				



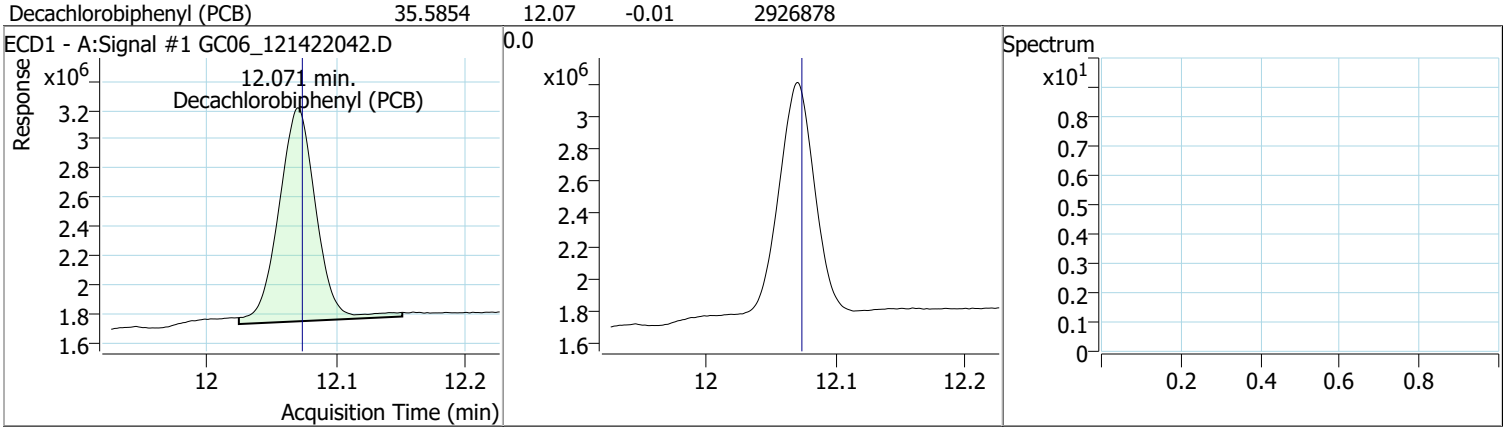
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	348.3372	11.12	0.00	5281763				



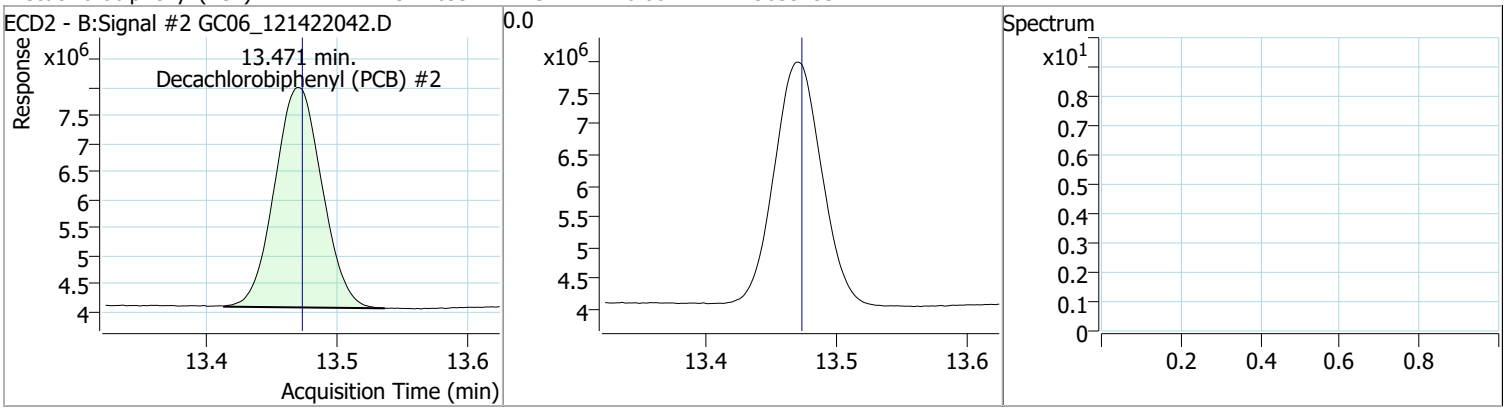
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	488.0912	11.38	0.00	10894583				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	35.5854	12.07	-0.01	2926878				

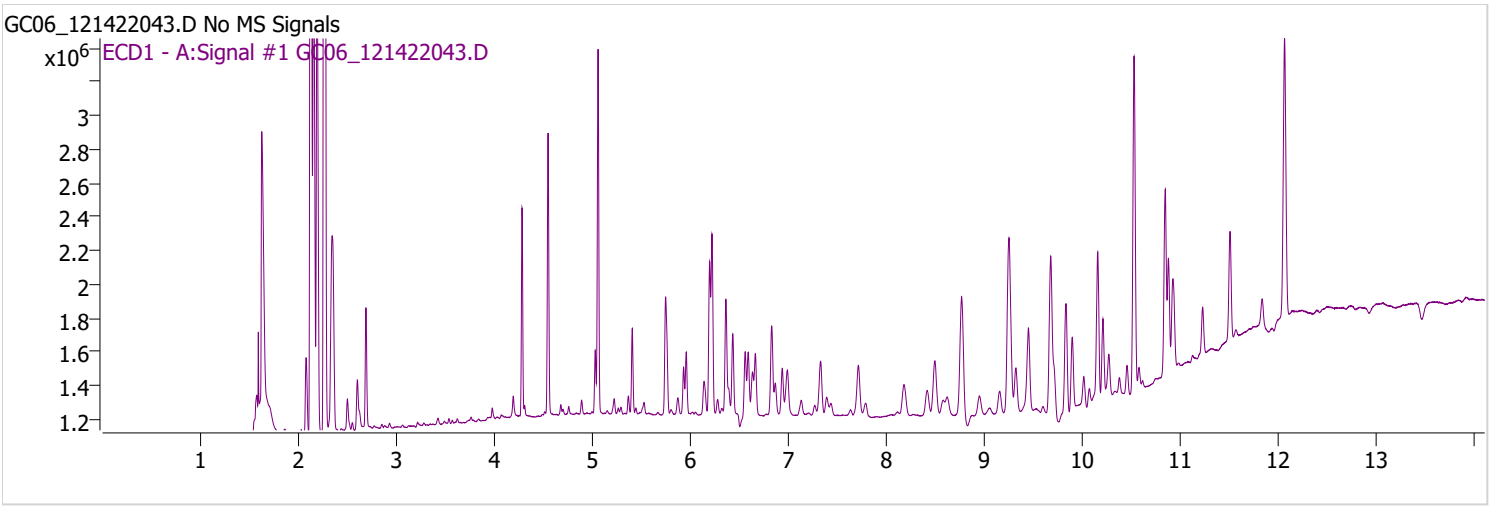


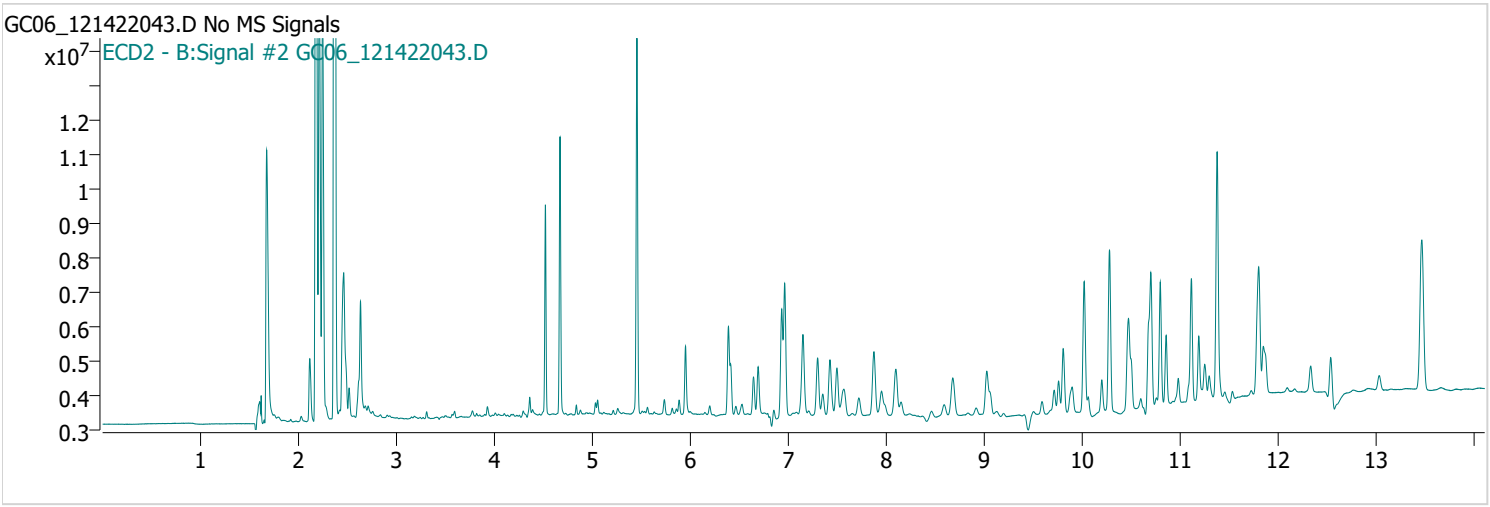
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	31.7099	13.47	0.00	9833233				



Quantitation Results Report (Not Reviewed)

Data File	GC06_121422043.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/15/2022 12:54:47 AM
Sample Name	QC1031901, 303182, 1	Instrument	SVOA-GC06
Vial	26	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_11.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	121422PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



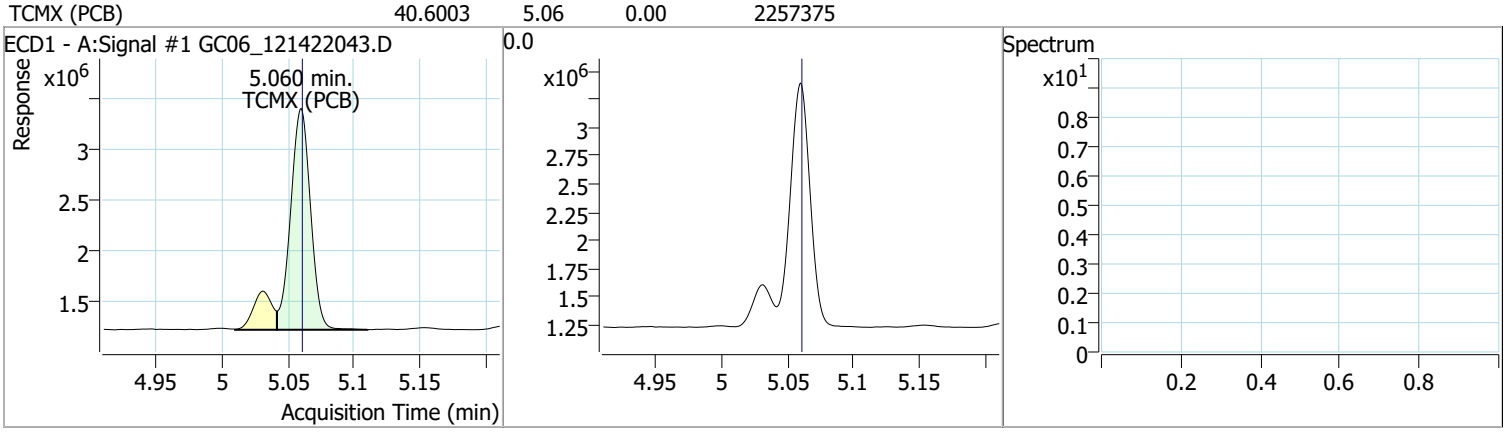


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.283	0.0	1156450.106	20.0000	ng/ml		-0.003
M 1-bromo-2-nitrobenzene (PCB) #2	4.522	0.0	5420567.778	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.060	0.0	2257375.328	40.6003	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 203.00%		*	
S TCMX (PCB) #2	5.457	0.0	11850261.637	45.5219	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 227.61%		*	
S Decachlorobiphenyl (PCB)	12.069	0.0	3340721.183	43.3403	ng/ml		-0.009
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 216.70%		*	
S Decachlorobiphenyl (PCB) #2	13.471	0.0	11453880.701	39.4299	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 197.15%		*	
Target Compounds							QValue

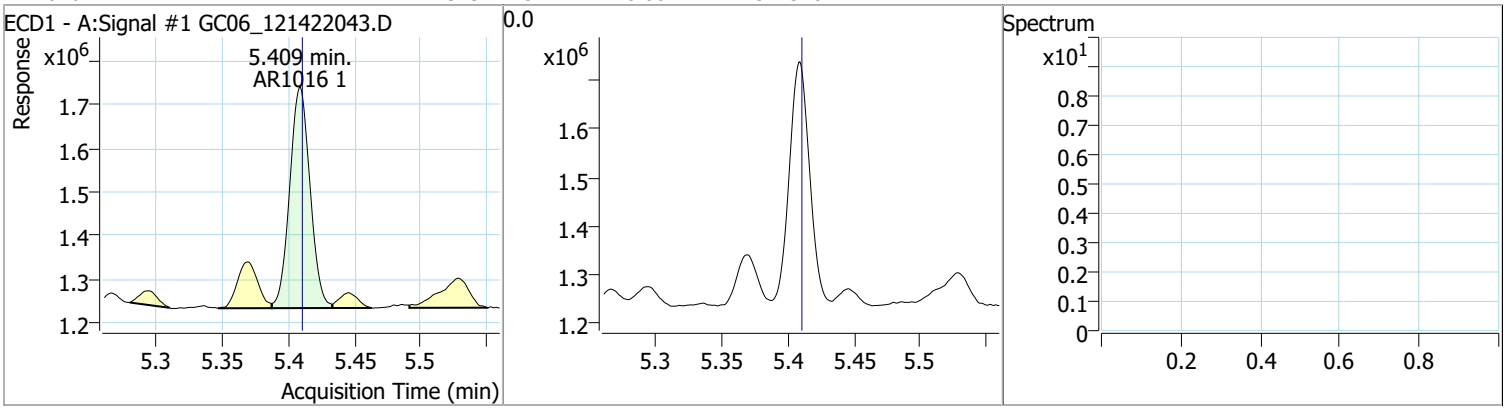
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.409	0.0	542328.486	447.2979	ng/ml	100
T AR1016 2	5.750	0.0	1165477.866	468.0545	ng/ml	100
T AR1016 1 #2	5.953	0.0	2507681.099	445.1204	ng/ml	100
T AR1016 3	6.223	0.0	1446395.259	470.5155	ng/ml	100
T AR1016 4	6.365	0.0	1284129.473	549.2393	ng/ml	100
T AR1016 2 #2	6.391	0.0	5234879.848	643.6969	ng/ml	100
T AR1016 5	6.563	0.0	676627.786	359.3028	ng/ml	100
T AR1016 3 #2	6.965	0.0	6639271.950	449.3020	ng/ml	100
T AR1016 4 #2	7.152	0.0	4700423.748	445.5661	ng/ml	100
T AR1016 5 #2	7.302	0.0	3022155.427	352.4393	ng/ml	100
T AR1260 1	8.772	0.0	1894280.480	484.4730	ng/ml	100
T AR1260 2	9.256	0.0	2611143.835	438.1478	ng/ml	100
T AR1260 3	9.682	0.0	2496173.345	400.7353	ng/ml	100
T AR1260 1 #2	10.023	0.0	6932034.409	429.7192	ng/ml	100
T AR1260 4	10.162	0.0	1548188.988	455.1356	ng/ml	100
T AR1260 2 #2	10.282	0.0	8460028.565	436.4797	ng/ml	100
T AR1260 3 #2	10.703	0.0	9988886.938	407.1467	ng/ml	100
T AR1260 5	10.852	0.0	1797230.018	241.0728	ng/ml	100
T AR1260 4 #2	11.118	0.0	5415590.781	378.5334	ng/ml	100
T AR1260 5 #2	11.381	0.0	12251430.504	582.2364	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

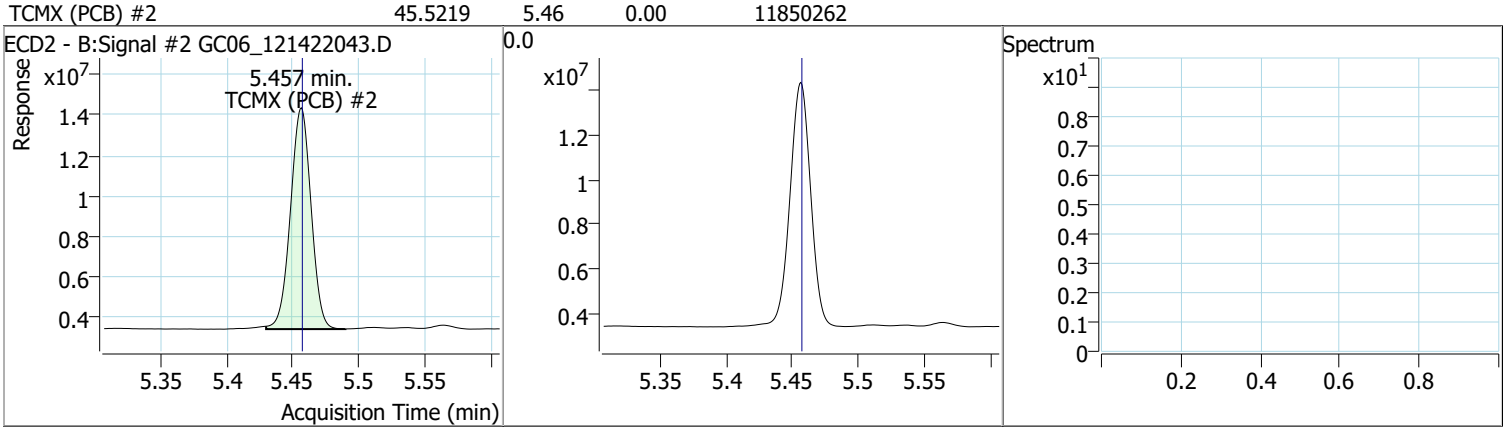
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	40.6003	5.06	0.00	2257375				



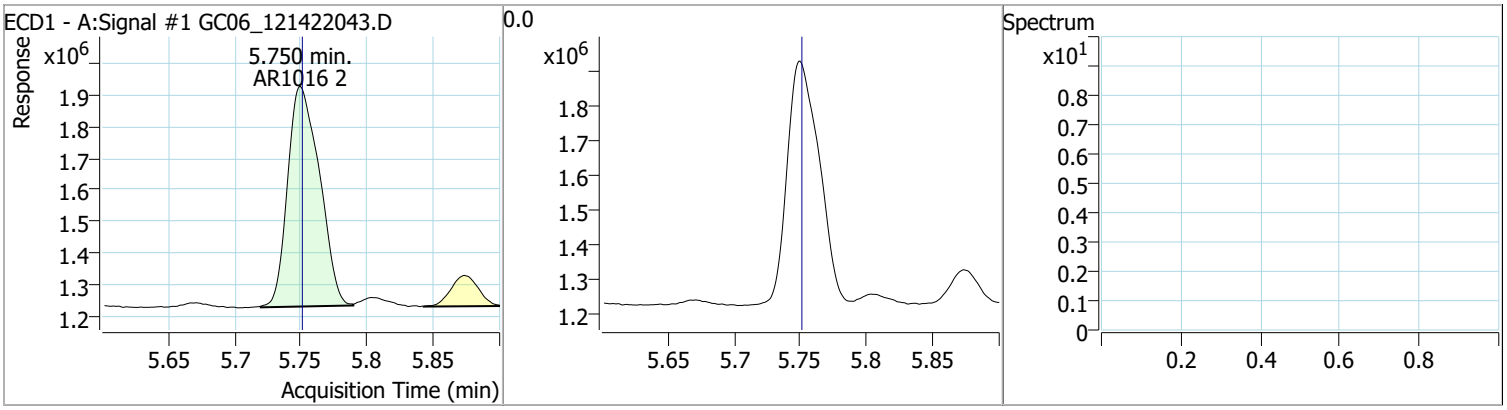
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	447.2979	5.41	0.00	542328				



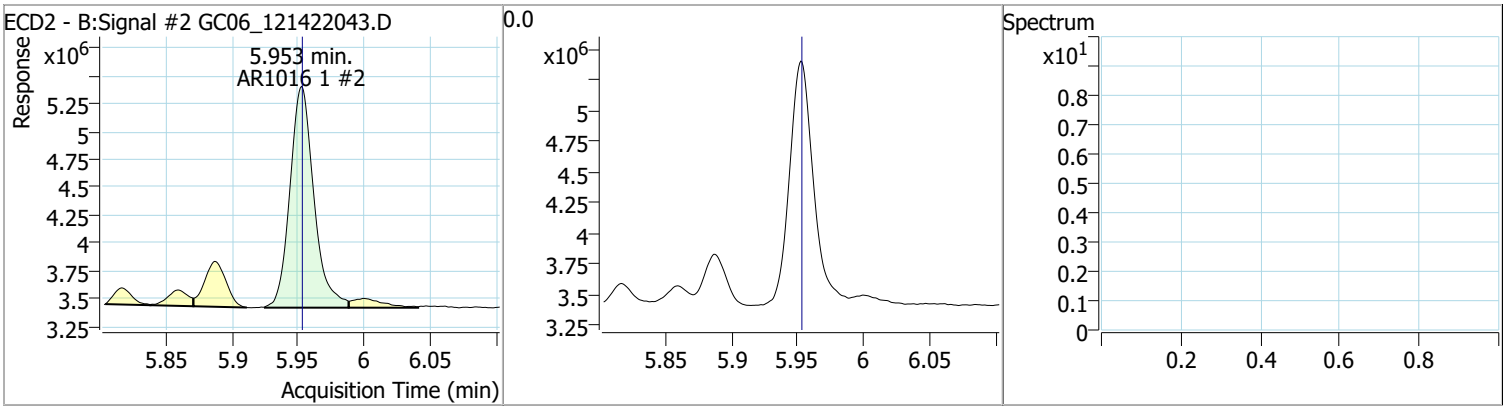
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	45.5219	5.46	0.00	11850262				



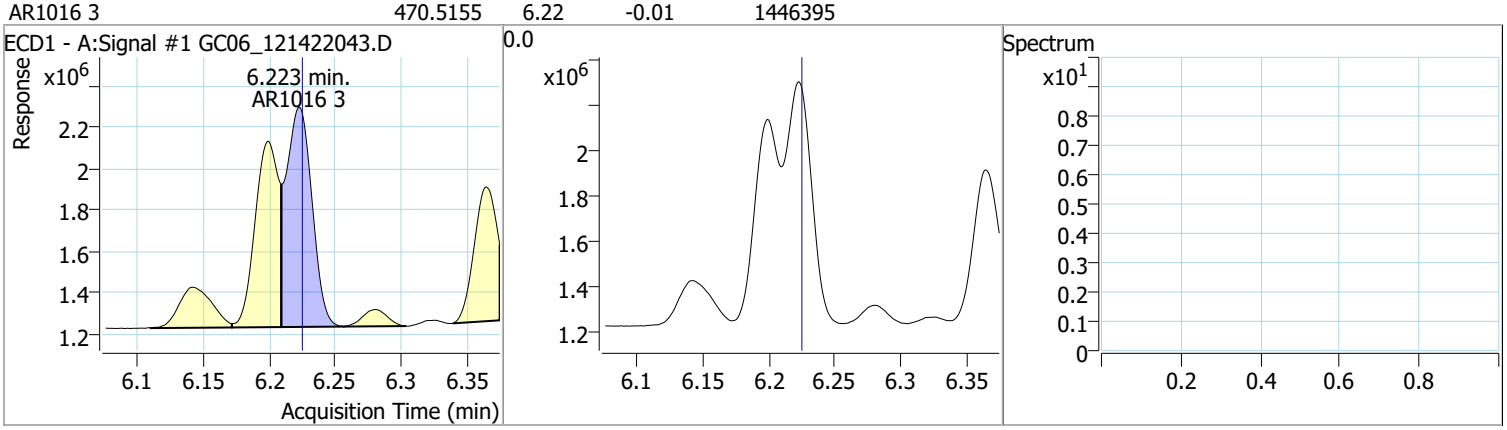
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	468.0545	5.75	0.00	1165478				



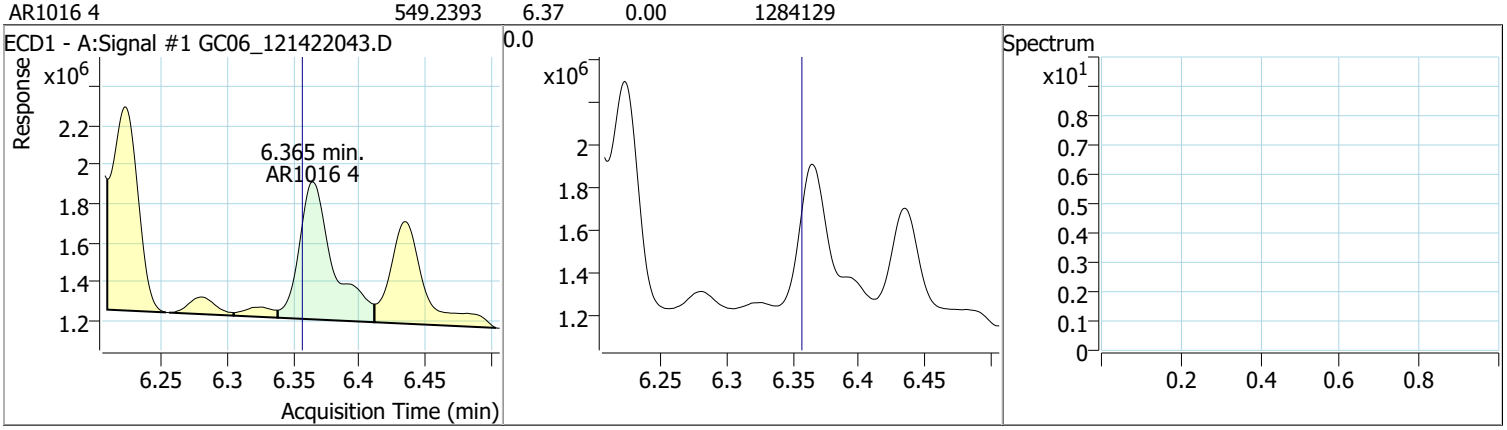
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	445.1204	5.95	0.00	2507681				



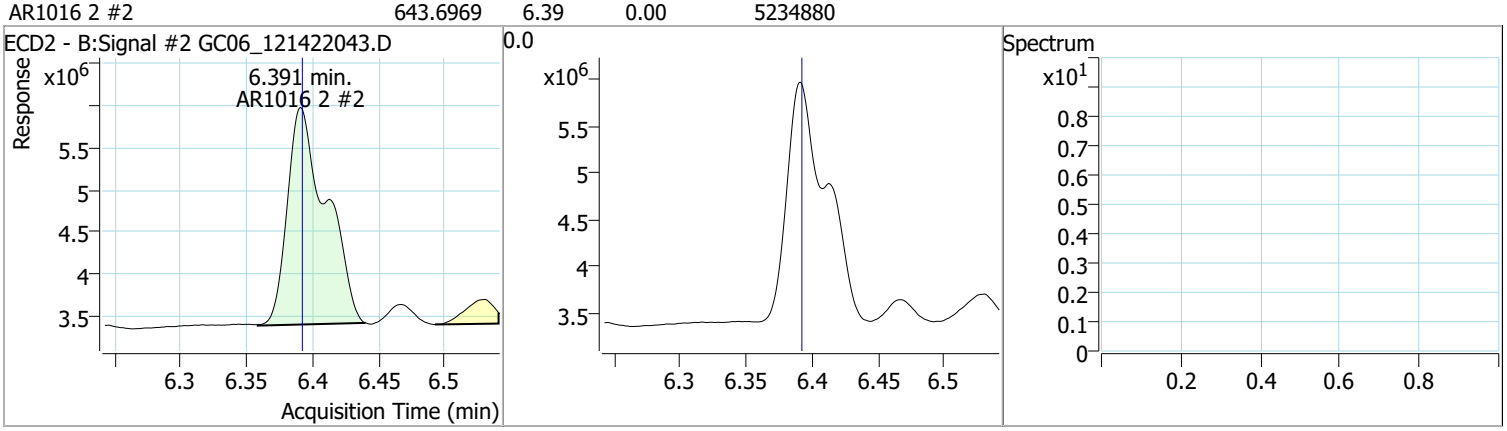
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	470.5155	6.22	-0.01	1446395				



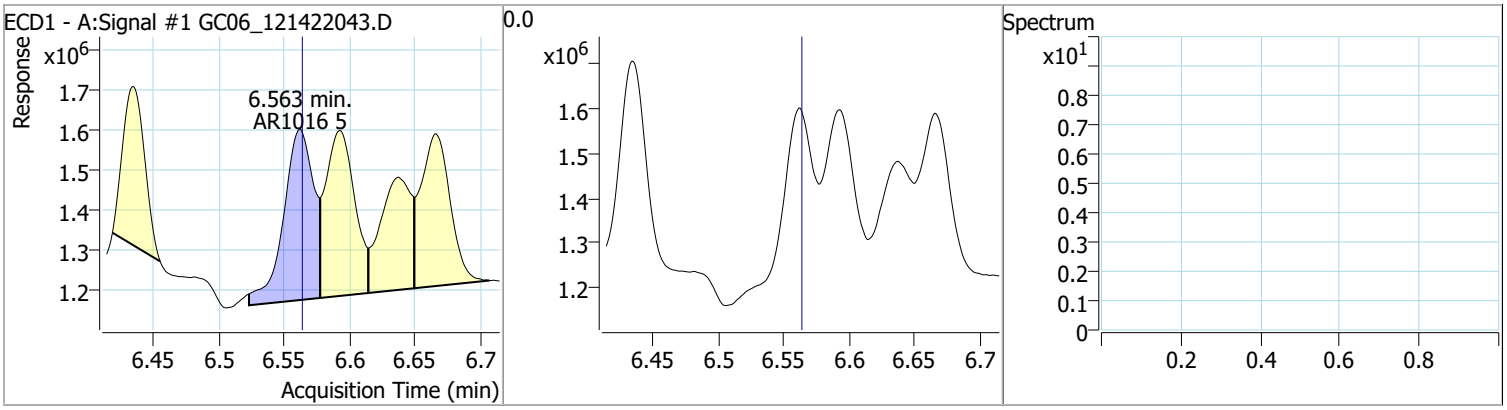
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	549.2393	6.37	0.00	1284129				



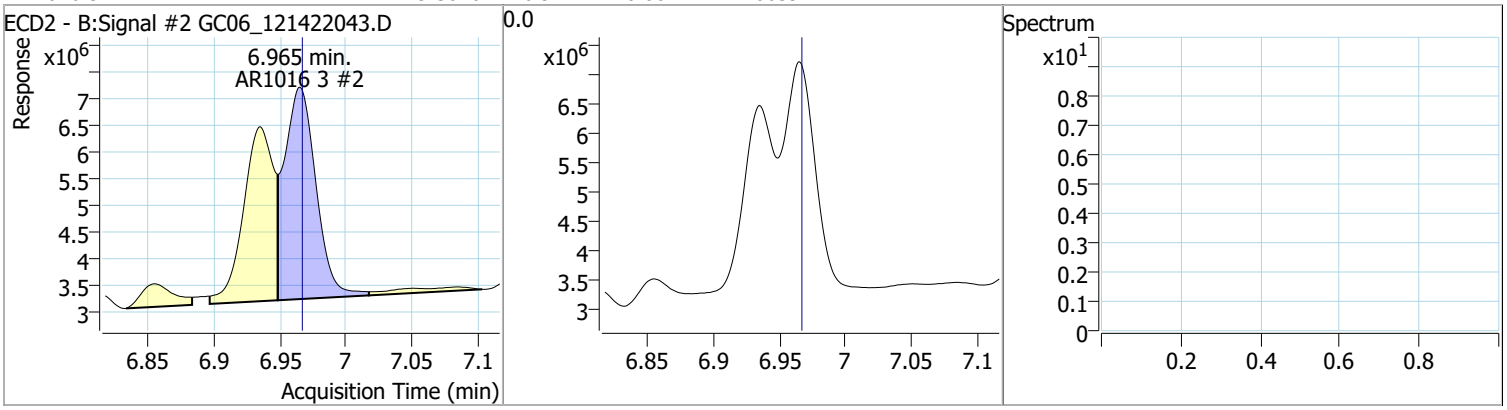
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	643.6969	6.39	0.00	5234880				



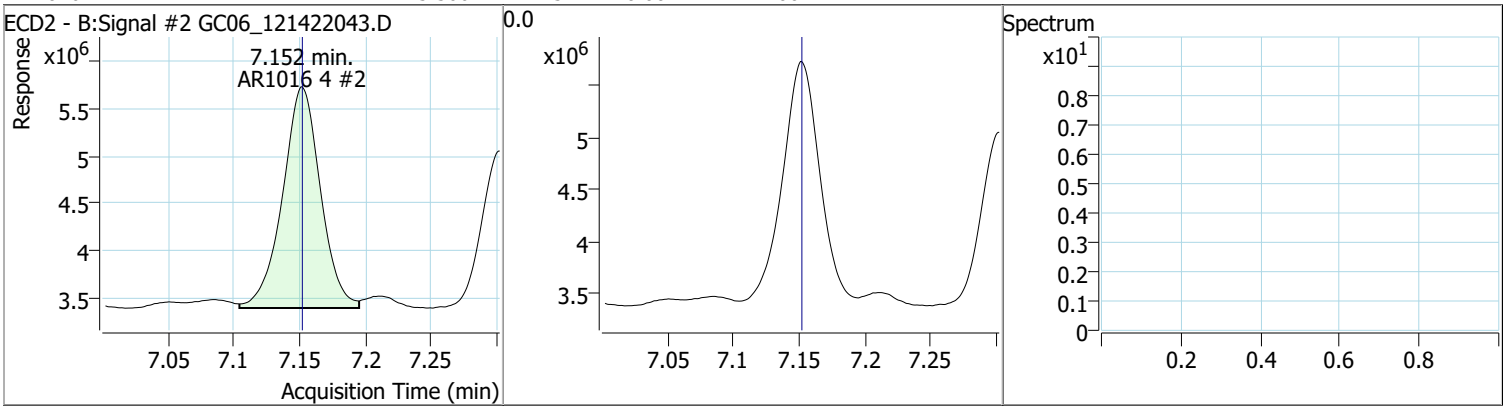
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	359.3028	6.56	0.00	676628				



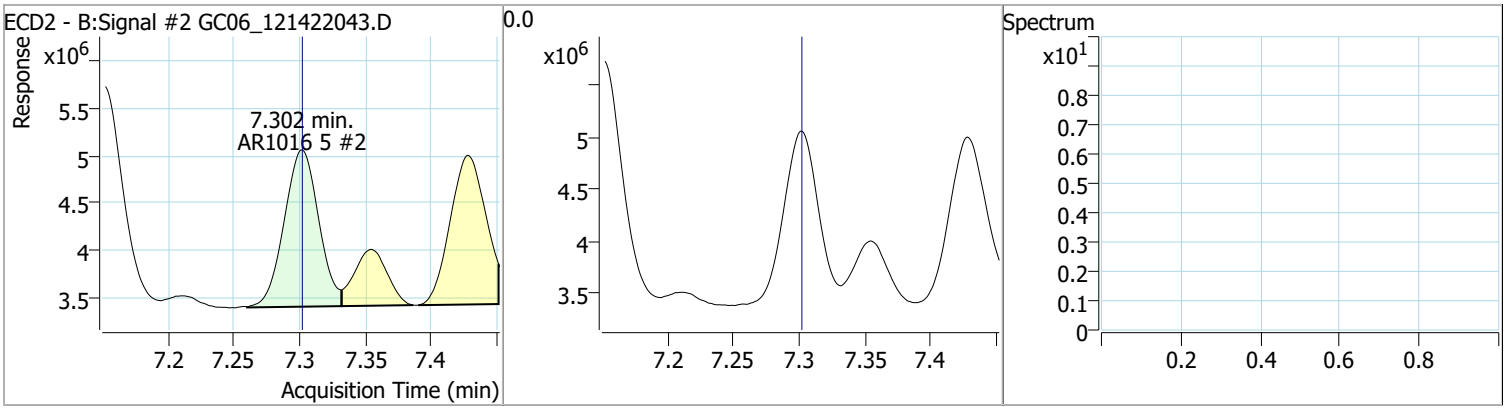
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	449.3020	6.97	0.00	6639272				



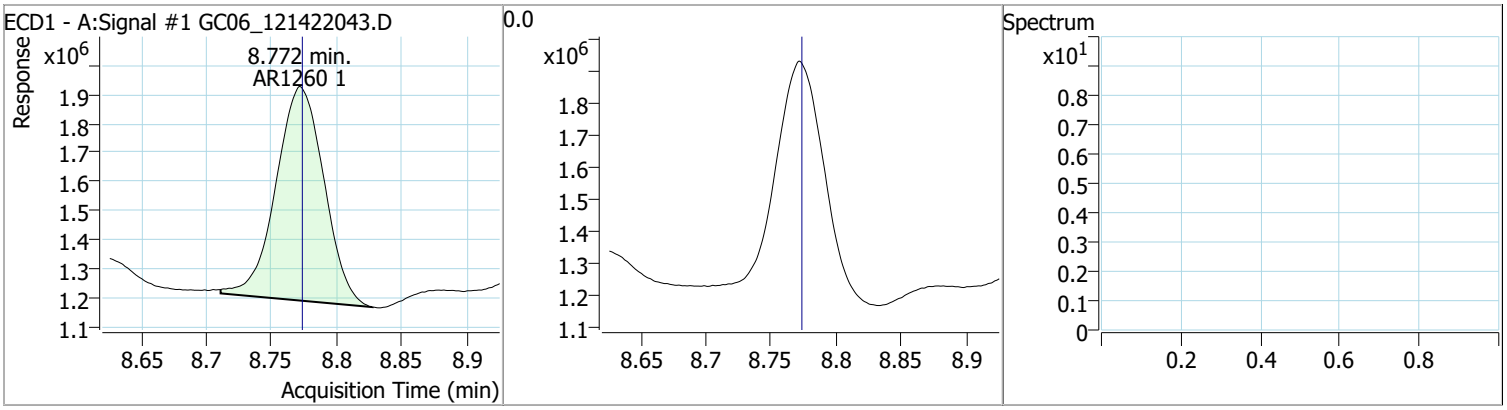
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AR1016 4 #2	445.5661	7.15	0.00	4700424				



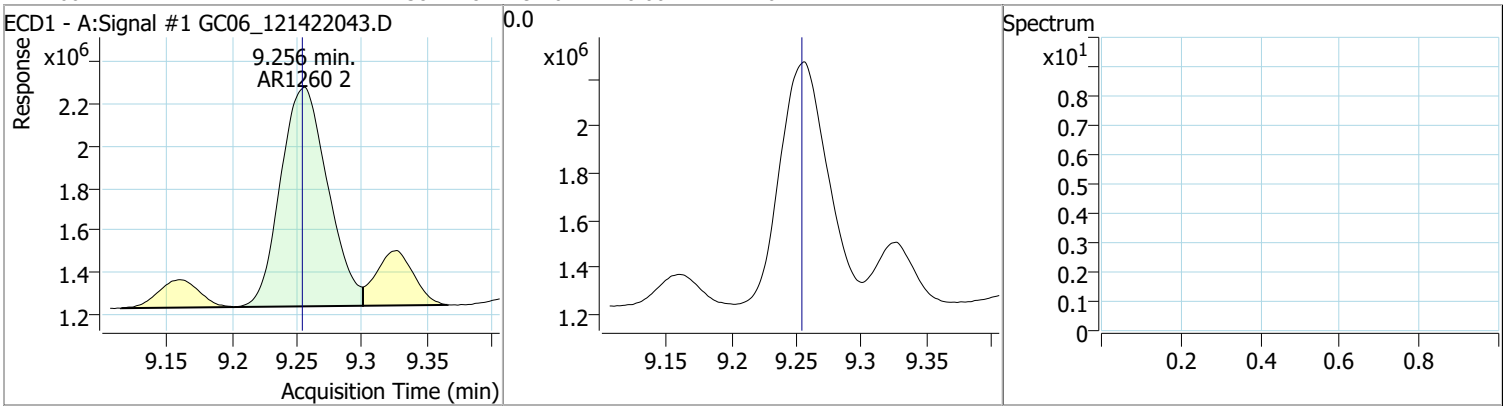
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	352.4393	7.30	0.00	3022155				



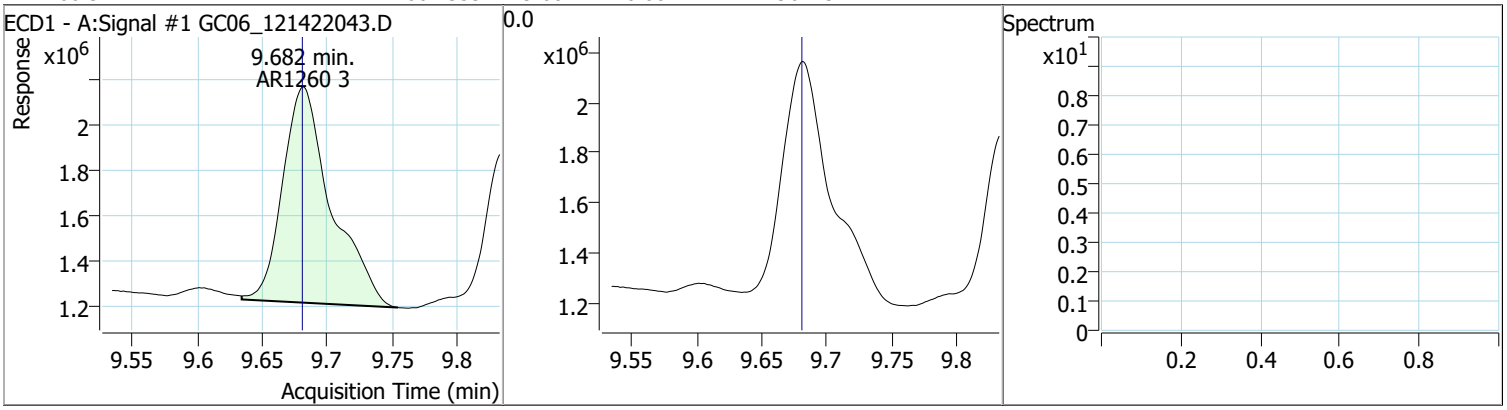
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	484.4730	8.77	-0.01	1894280				



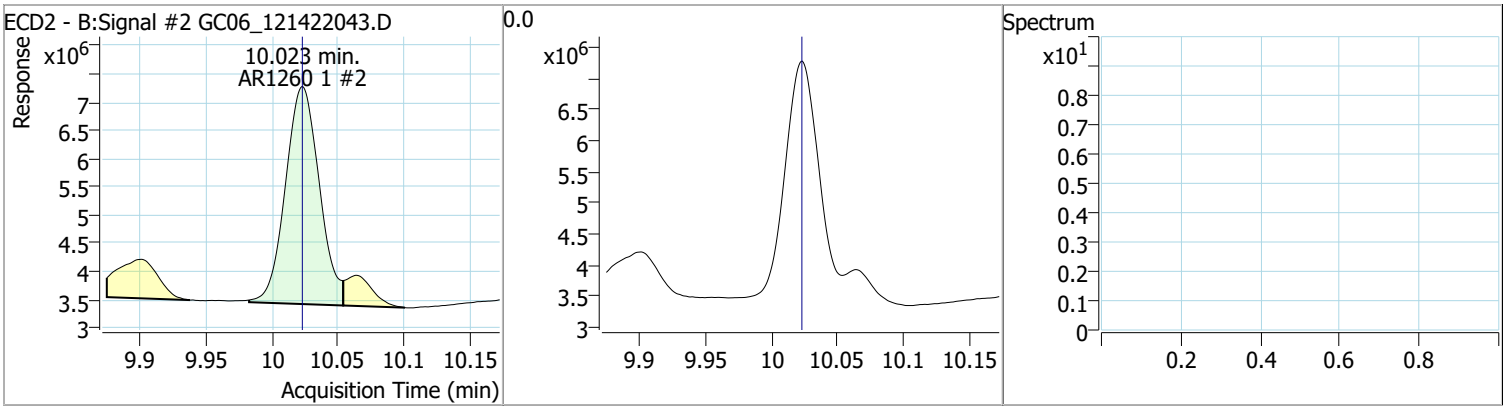
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	438.1478	9.26	0.00	2611144				



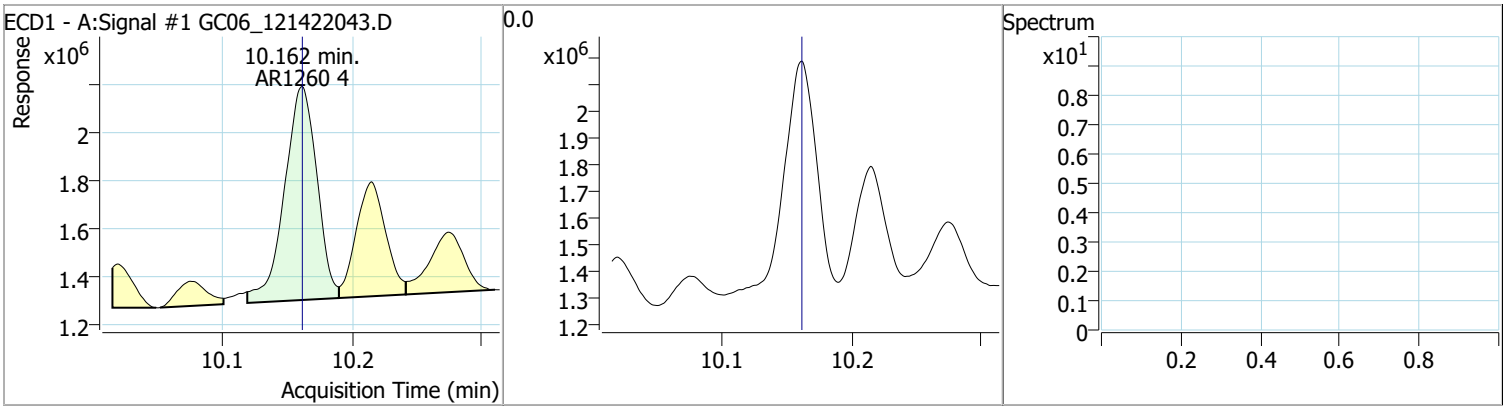
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	400.7353	9.68	0.00	2496173				



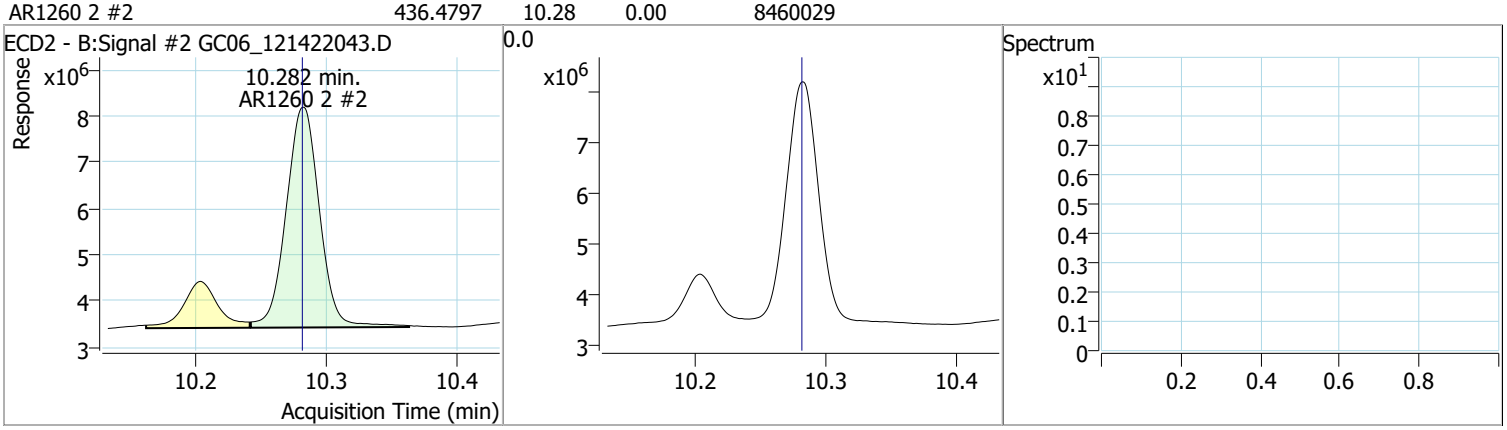
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	429.7192	10.02	0.00	6932034				



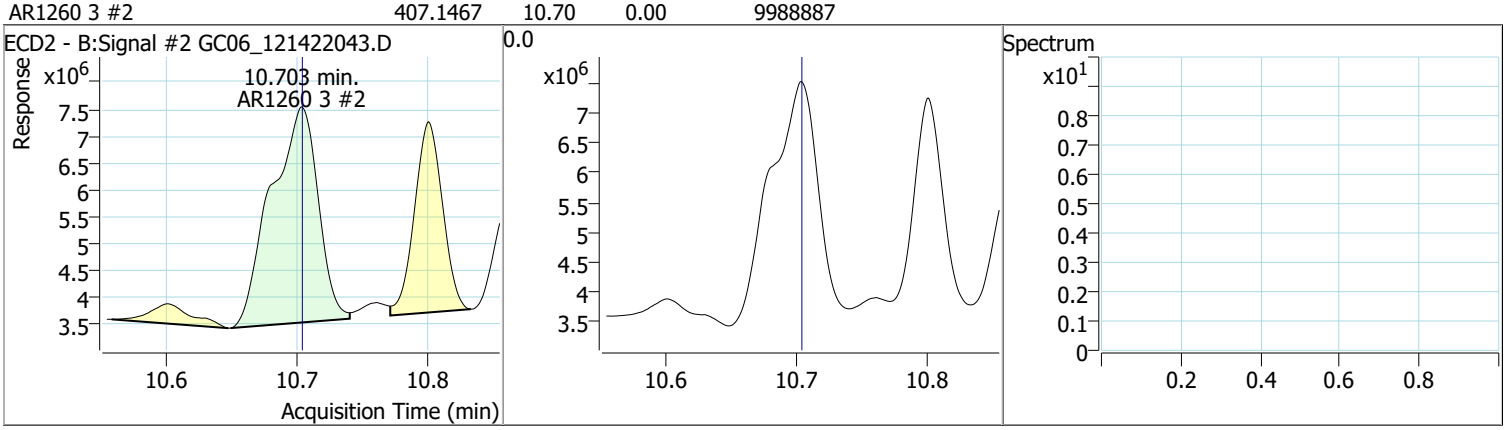
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	455.1356	10.16	-0.01	1548189				



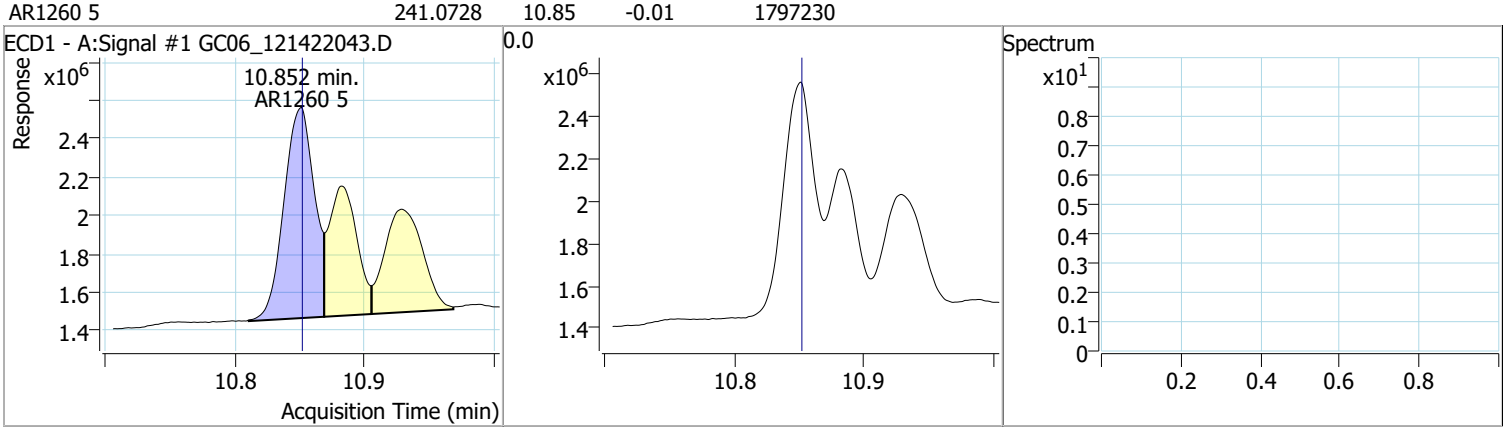
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	436.4797	10.28	0.00	8460029				



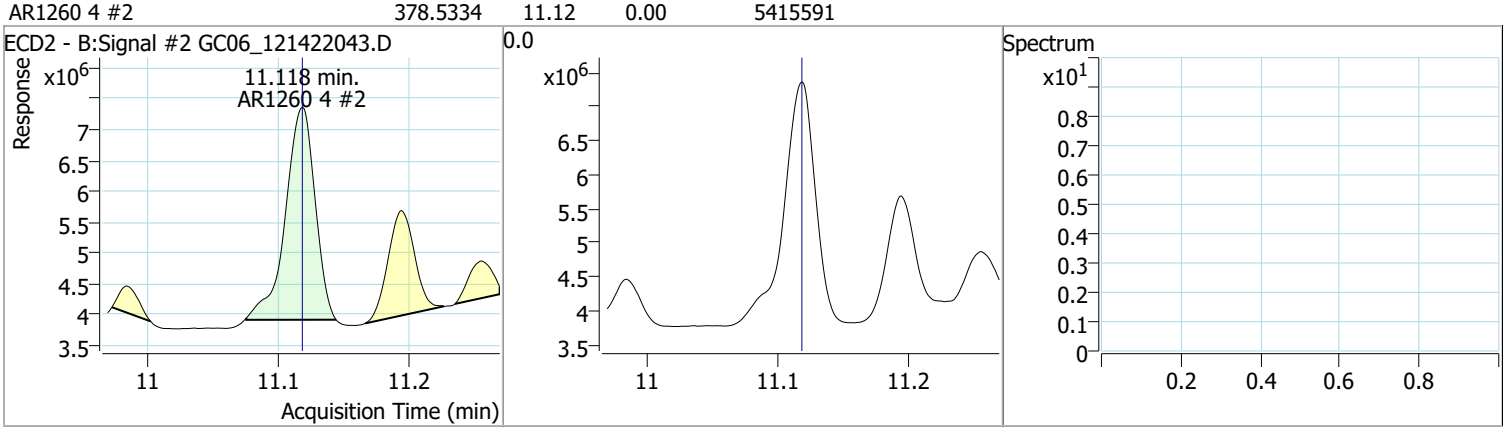
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	407.1467	10.70	0.00	9988887				



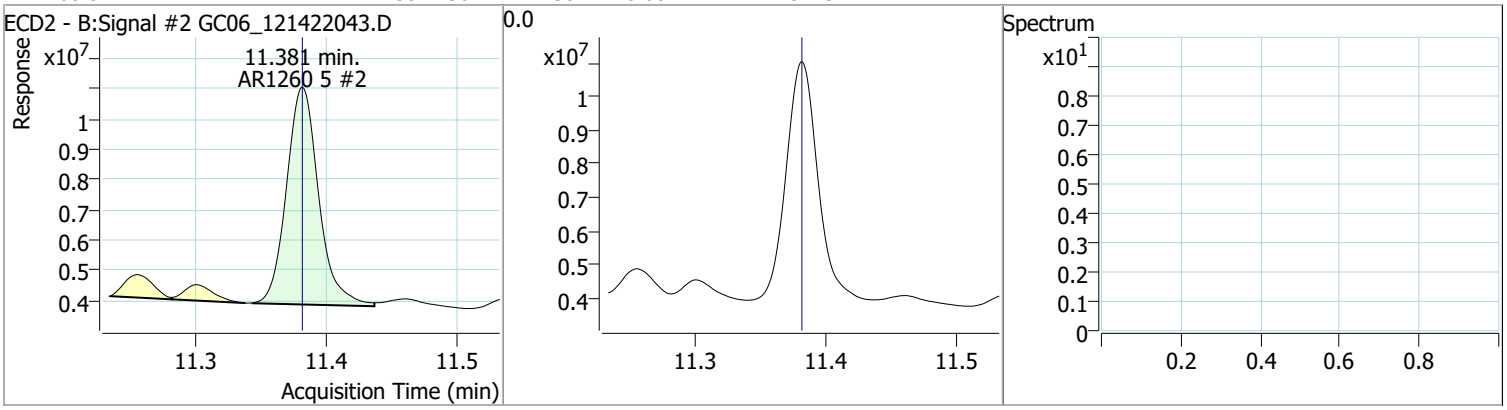
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	241.0728	10.85	-0.01	1797230				



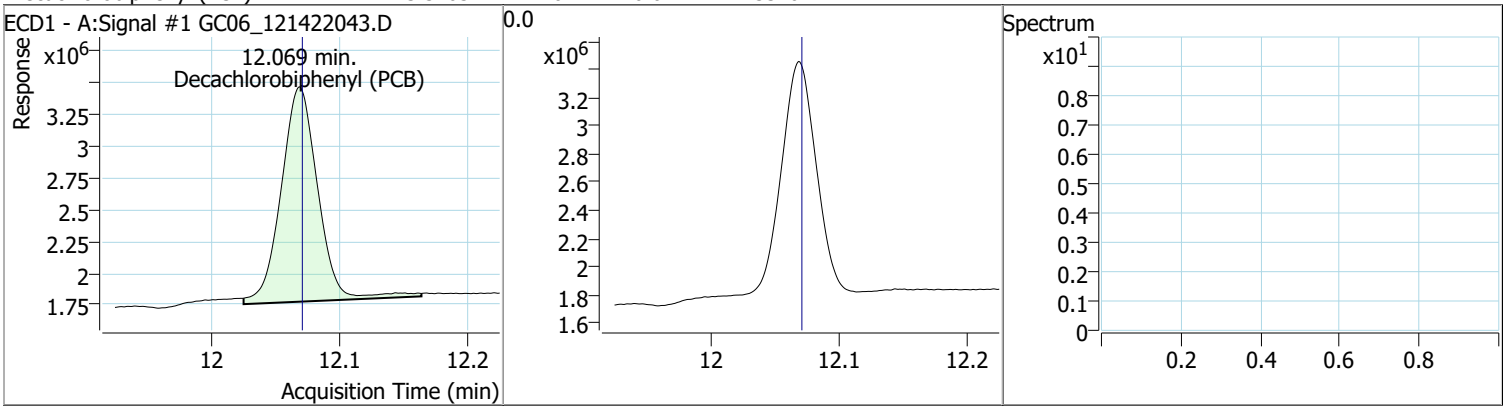
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	378.5334	11.12	0.00	5415591				



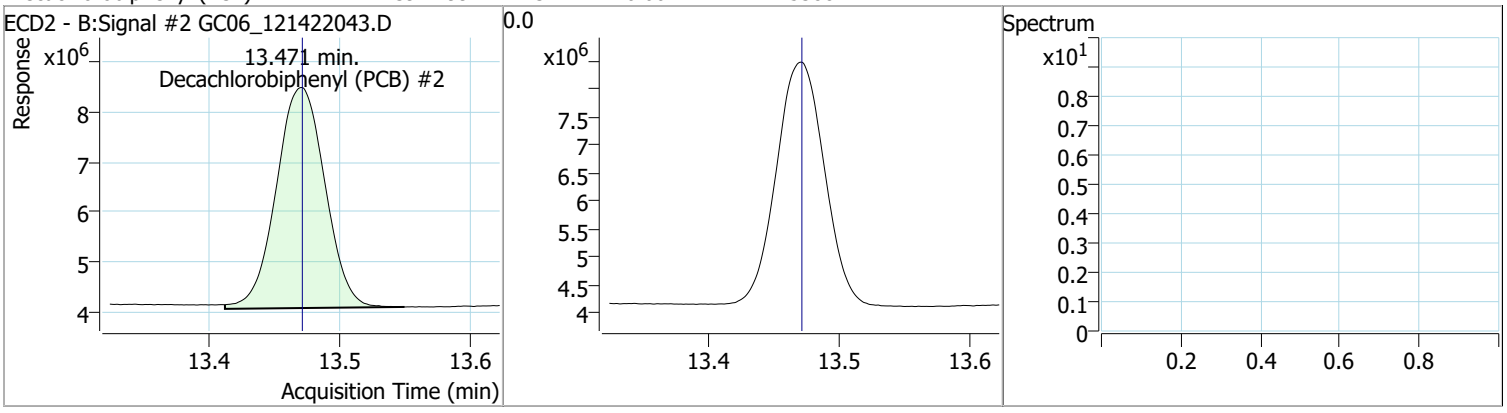
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	582.2364	11.38	0.00	12251431				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	43.3403	12.07	-0.01	3340721				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	39.4299	13.47	0.00	11453881				



Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 474713 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_102422014	452428510014		24-OCT-2022 17:26	S17263
L2	gc06_102422015	452428510015		24-OCT-2022 17:44	S17264
L3	gc06_102422016	452428510016		24-OCT-2022 18:02	S17265
L4	gc06_102422017	452428510017		24-OCT-2022 18:20	S17266
L5	gc06_102422018	452428510018		24-OCT-2022 18:38	S17267
L6	gc06_102422019	452428510019		24-OCT-2022 18:55	S17268
L7	gc06_102422020	452428510020		24-OCT-2022 19:13	S17269
L8	gc06_102422021	452428510021		24-OCT-2022 19:31	S17270
L9	gc06_102422022	452428510022		24-OCT-2022 19:49	S17271

Analyte	Ch	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG		47.6898		0.0210		15	9	.99	20	
Aroclor-1016 Peak # 2	A	LINR	-15.389	23.9841		0.0490	0.997		7	.99	20	
Aroclor-1016 Peak # 3	A	AVRG		18.8095		0.0532		15	9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG		24.7311		0.0404		14	9	.99	20	
Aroclor-1016 Peak # 5	A	AVRG		30.7045		0.0326		15	9	.99	20	
Aroclor-1260 Peak # 1	A	AVRG		14.7882		0.0676		18	8	.99	20	
Aroclor-1260 Peak # 2	A	AVRG		9.70243		0.1031		17	8	.99	20	
Aroclor-1260 Peak # 3	A	AVRG		9.28268		0.1077		17	8	.99	20	
Aroclor-1260 Peak # 4	A	LINR	-15.439	17.5746		0.0643	0.998		7	.99	20	
Aroclor-1260 Peak # 5	A	LINR	-18.106	8.33830		0.1368	0.999		8	.99	20	
Decachlorobiphenyl (PCB)	A	LINR	-4.3231	0.82496		1.4080	0.999		6	.99	20	
TCMX (PCB)	A	AVRG		1.03996		0.9616		13	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG		48.1076		0.0208		13	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG		33.3260		0.0300		14	9	.99	20	
Aroclor-1016 Peak # 3	B	AVRG		18.3412		0.0545		16	9	.99	20	
Aroclor-1016 Peak # 4	B	AVRG		25.6912		0.0389		12	9	.99	20	
Aroclor-1016 Peak # 5	B	AVRG		31.6065		0.0316		13	9	.99	20	
Aroclor-1260 Peak # 1	B	AVRG		16.8009		0.0595		14	8	.99	20	
Aroclor-1260 Peak # 2	B	AVRG		13.9830		0.0715		15	8	.99	20	
Aroclor-1260 Peak # 3	B	AVRG		11.0470		0.0905		16	8	.99	20	
Aroclor-1260 Peak # 4	B	LINR	-23.653	20.1271		0.0597	0.996		7	.99	20	
Aroclor-1260 Peak # 5	B	LINR	-18.665	13.2930		0.0873	0.999		8	.99	20	
Decachlorobiphenyl (PCB)	B	LINR	-2.1138	0.98301		1.2084	0.999		8	.99	20	
TCMX (PCB)	B	AVRG		1.04112		0.9605		10	9	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)
AVRG: Average response factor
LINR: Linear regression

ENTHALPY INITIAL CALIBRATION FOR 474713 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF
Aroclor-1016 Peak # 1	A	0.0275	0.0229	0.0229	0.0213	0.0183	0.0203	0.0197	0.0189	0.0170
Aroclor-1016 Peak # 2	A	0.0705	0.0493	0.0498	0.0471	0.0402	0.0443	0.0419		
Aroclor-1016 Peak # 3	A	0.0694	0.0572	0.0577	0.0553	0.0469	0.0521	0.0499	0.0477	0.0422
Aroclor-1016 Peak # 4	A	0.0506	0.0443	0.0443	0.0420	0.0361	0.0399	0.0381	0.0367	0.0320
Aroclor-1016 Peak # 5	A	0.0417	0.0355	0.0355	0.0335	0.0292	0.0321	0.0306	0.0296	0.0253
Aroclor-1260 Peak # 1	A	0.0937	0.0726	0.0712	0.0675	0.0578	0.0620	0.0600	0.0564	
Aroclor-1260 Peak # 2	A	0.1377	0.1100	0.1119	0.1048	0.0901	0.0941	0.0896	0.0864	
Aroclor-1260 Peak # 3	A	0.1494	0.1089	0.1140	0.1083	0.0928	0.0997	0.0955	0.0931	
Aroclor-1260 Peak # 4	A	0.0776	0.0657	0.0680	0.0657	0.0561	0.0598	0.0571		
Aroclor-1260 Peak # 5	A	0.1719	0.1443	0.1523	0.1392	0.1178	0.1263	0.1212	0.1213	
Decachlorobiphenyl (PCB)	A			1.7517	1.5276	1.3136	1.3325	1.2692	1.2537	
TCMX (PCB)	A	1.2724	0.9655	0.9830	0.9621	0.8303	0.9420	0.9219	0.9218	0.8552
Aroclor-1016 Peak # 1	B	0.0258	0.0224	0.0221	0.0217	0.0189	0.0208	0.0199	0.0188	0.0168
Aroclor-1016 Peak # 2	B	0.0369	0.0328	0.0337	0.0319	0.0262	0.0293	0.0282	0.0270	0.0241
Aroclor-1016 Peak # 3	B	0.0731	0.0591	0.0595	0.0548	0.0476	0.0526	0.0506	0.0504	0.0429
Aroclor-1016 Peak # 4	B	0.0470	0.0426	0.0424	0.0410	0.0348	0.0383	0.0370	0.0362	0.0311
Aroclor-1016 Peak # 5	B	0.0389	0.0336	0.0345	0.0334	0.0285	0.0314	0.0302	0.0296	0.0248
Aroclor-1260 Peak # 1	B	0.0741	0.0638	0.0673	0.0608	0.0510	0.0551	0.0527	0.0514	
Aroclor-1260 Peak # 2	B	0.0910	0.0798	0.0790	0.0726	0.0608	0.0651	0.0625	0.0613	
Aroclor-1260 Peak # 3	B	0.1187	0.0977	0.0986	0.0907	0.0769	0.0826	0.0797	0.0793	
Aroclor-1260 Peak # 4	B	0.0785	0.0629	0.0647	0.0583	0.0503	0.0539	0.0496		
Aroclor-1260 Peak # 5	B	0.1184	0.0925	0.0953	0.0868	0.0743	0.0790	0.0760	0.0762	
Decachlorobiphenyl (PCB)	B	1.6271	1.2663	1.3495	1.2170	1.0610	1.0826	1.0310	1.0324	
TCMX (PCB)	B	1.1603	0.9978	0.9817	0.9671	0.8301	0.9599	0.9328	0.9461	0.8687

ENTHALPY INITIAL CALIBRATION FOR 474713 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A	20.000	**31**	50.000	9	100.00	9	250.00	1	500.00	-13	749.91	-3	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 2	A	20.000	-8	50.000	-12	100.00	4	250.00	7	500.00	-7	749.91	4	1000.0	-1		
Aroclor-1016 Peak # 3	A	20.000	**31**	50.000	8	100.00	9	250.00	4	500.00	-12	749.91	-2	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 4	A	20.000	**25**	50.000	10	100.00	10	250.00	4	500.00	-11	749.91	-1	1000.0	-6	1500.0	-9
Aroclor-1016 Peak # 5	A	20.000	**28**	50.000	9	100.00	9	250.00	3	500.00	-10	749.91	-1	1000.0	-6	1500.0	-9
Aroclor-1260 Peak # 1	A	20.000	**38**	50.000	7	100.00	5	250.00	0	500.00	-15	749.91	-8	1000.0	-11	1500.0	-17
Aroclor-1260 Peak # 2	A	20.000	**34**	50.000	7	100.00	9	250.00	2	500.00	-13	749.91	-9	1000.0	-13	1500.0	-16
Aroclor-1260 Peak # 3	A	20.000	**39**	50.000	1	100.00	6	250.00	1	500.00	-14	749.91	-7	1000.0	-11	1500.0	-14
Aroclor-1260 Peak # 4	A	20.000	**-41**	50.000	-15	100.00	4	250.00	9	500.00	-4	749.91	3	1000.0	-1		
Aroclor-1260 Peak # 5	A	20.000	**-47**	50.000	-16	100.00	9	250.00	9	500.00	-5	749.91	3	1000.0	-1	1500.0	0
Decachlorobiphenyl (PCB)	A					8.0000	-10	20.000	4	40.000	-2	59.993	3	80.000	-1	120.00	0
TCMX (PCB)	A	1.6000	**32**	4.0000	0	8.0000	2	20.000	0	40.000	-14	59.993	-2	80.000	-4	120.00	-4
Aroclor-1016 Peak # 1	B	20.000	**24**	50.000	8	100.00	6	250.00	4	500.00	-9	749.91	0	1000.0	-4	1500.0	-10
Aroclor-1016 Peak # 2	B	20.000	**23**	50.000	9	100.00	12	250.00	6	500.00	-13	749.91	-2	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 3	B	20.000	**34**	50.000	8	100.00	9	250.00	1	500.00	-13	749.91	-4	1000.0	-7	1500.0	-8
Aroclor-1016 Peak # 4	B	20.000	**21**	50.000	9	100.00	9	250.00	5	500.00	-11	749.91	-2	1000.0	-5	1500.0	-7
Aroclor-1016 Peak # 5	B	20.000	**23**	50.000	6	100.00	9	250.00	5	500.00	-10	749.91	-1	1000.0	-5	1500.0	-6
Aroclor-1260 Peak # 1	B	20.000	**24**	50.000	7	100.00	13	250.00	2	500.00	-14	749.91	-7	1000.0	-11	1500.0	-14
Aroclor-1260 Peak # 2	B	20.000	**27**	50.000	12	100.00	11	250.00	2	500.00	-15	749.91	-9	1000.0	-13	1500.0	-14
Aroclor-1260 Peak # 3	B	20.000	**31**	50.000	8	100.00	9	250.00	0	500.00	-15	749.91	-9	1000.0	-12	1500.0	-12
Aroclor-1260 Peak # 4	B	20.000	**-60**	50.000	**-21**	100.00	7	250.00	8	500.00	-4	749.91	5	1000.0	-3		
Aroclor-1260 Peak # 5	B	20.000	**-36**	50.000	-14	100.00	8	250.00	8	500.00	-5	749.91	3	1000.0	-1	1500.0	0
Decachlorobiphenyl (PCB)	B	1.6000	**-72**	4.0000	**-28**	8.0000	6	20.000	9	40.000	-1	59.993	3	80.000	-1	120.00	0
TCMX (PCB)	B	1.6000	**21**	4.0000	4	8.0000	2	20.000	1	40.000	-14	59.993	0	80.000	-3	120.00	-1

ENTHALPY INITIAL CALIBRATION FOR 474713 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L9	%D
Aroclor-1016 Peak # 1	A	2000.0	-19
Aroclor-1016 Peak # 2	A		
Aroclor-1016 Peak # 3	A	2000.0	**-21**
Aroclor-1016 Peak # 4	A	2000.0	**-21**
Aroclor-1016 Peak # 5	A	2000.0	**-22**
Aroclor-1260 Peak # 1	A		
Aroclor-1260 Peak # 2	A		
Aroclor-1260 Peak # 3	A		
Aroclor-1260 Peak # 4	A		
Aroclor-1260 Peak # 5	A		
Decachlorobiphenyl (PCB)	A		
TCMX (PCB)	A	160.00	-11
Aroclor-1016 Peak # 1	B	2000.0	-19
Aroclor-1016 Peak # 2	B	2000.0	-20
Aroclor-1016 Peak # 3	B	2000.0	**-21**
Aroclor-1016 Peak # 4	B	2000.0	-20
Aroclor-1016 Peak # 5	B	2000.0	**-22**
Aroclor-1260 Peak # 1	B		
Aroclor-1260 Peak # 2	B		
Aroclor-1260 Peak # 3	B		
Aroclor-1260 Peak # 4	B		
Aroclor-1260 Peak # 5	B		
Decachlorobiphenyl (PCB)	B		
TCMX (PCB)	B	160.00	-10

TRN 10/26/22 : Manually integrated for coeluting peak/draw baseline on both channel for multiple channels

Analyst: TRN 10/26/22

Reviewer: LW 10/27/22

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 474713 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Name:	PCB_102422_1
Calnum:	452428510002	Cal Date:	24-OCT-2022

- ICV 452428510024 (gc06_102422024 24-OCT-2022) stds: S17274

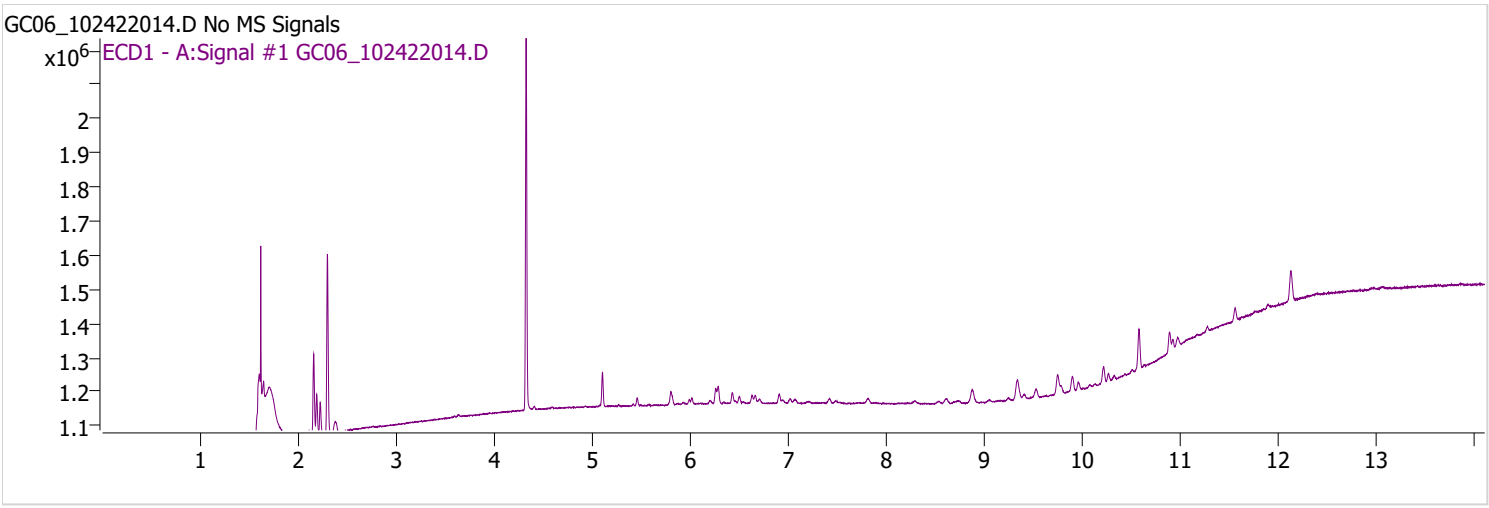
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	486.9	ug/L	-3	15	
Aroclor-1260	A	500.0	451.5	ug/L	-10	15	
Aroclor-1016	B	500.0	481.3	ug/L	-4	15	
Aroclor-1260	B	500.0	455.3	ug/L	-9	15	

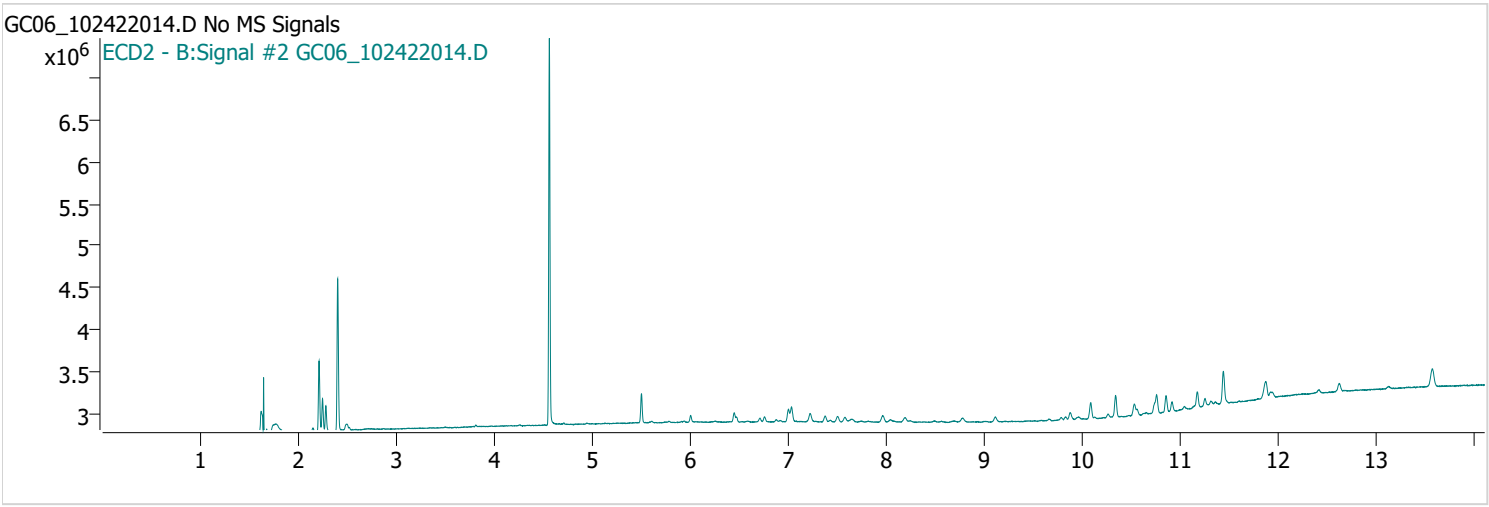
-

Analyst: TRN 10/26/22 **Reviewer:** LW 10/27/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_102422014.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 5:26:16 PM
Sample Name	ICAL, S17263	Instrument	SVOA-GC06
Vial	11	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



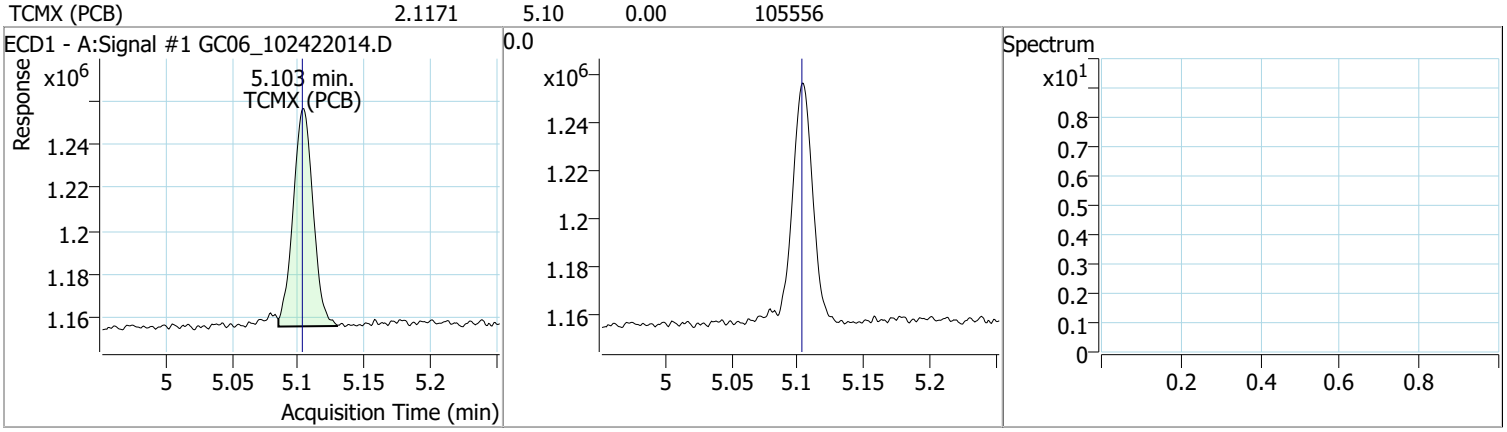


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.324	0.0	1037016.219	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	4201953.160	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	105555.954	2.1171	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 10.59%		*	
S TCMX (PCB) #2	5.502	0.0	390058.222	1.9329	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 9.66%		*	
S Decachlorobiphenyl (PCB)	12.133	0.0	184176.168	0.0000	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 0.00%		*	
S Decachlorobiphenyl (PCB) #2	13.576	0.0	546954.440	0.4459	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 2.23%		*	
Target Compounds							**QValue**
T AR1016 1	5.458	0.0	28480.322	26.1951	ng/ml		100
T AR1016 2	5.802	0.0	73071.976	18.4116	ng/ml		100
T AR1016 1 #2	6.004	0.0	108525.199	24.8502	ng/ml		100

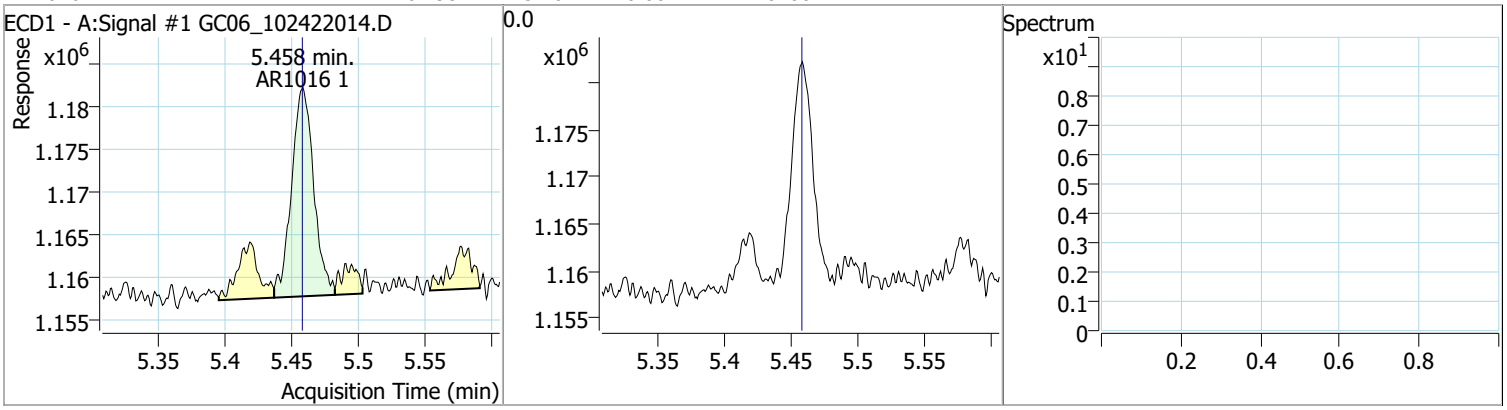
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 3	6.285	0.0	71957.123	26.1037	ng/ml		100
T AR1016 4	6.430	0.0	52488.922	25.0358	ng/ml	m	100
T AR1016 2 #2	6.449	0.0	154975.476	24.5828	ng/ml		100
T AR1016 5	6.908	0.0	43274.534	25.6262	ng/ml		100
T AR1016 3 #2	7.033	0.0	307317.024	26.8286	ng/ml		100
T AR1016 4 #2	7.223	0.0	197434.079	24.1430	ng/ml		100
T AR1016 5 #2	7.966	0.0	163277.665	24.5634	ng/ml		100
T AR1260 1	8.881	0.0	97121.012	27.7000	ng/ml		100
T AR1260 2	9.339	0.0	142815.316	26.7243	ng/ml		100
T AR1260 3	9.751	0.0	154959.969	27.7424	ng/ml	m	100
T AR1260 1 #2	10.089	0.0	311262.229	24.8911	ng/ml		100
T AR1260 4	10.220	0.0	80435.978	11.8240	ng/ml		100
T AR1260 2 #2	10.342	0.0	382187.365	25.4368	ng/ml		100
T AR1260 5	10.581	0.0	178298.760	10.5736	ng/ml		100
T AR1260 3 #2	10.761	0.0	498567.492	26.2151	ng/ml		100
T AR1260 4 #2	11.176	0.0	329727.817	7.9351	ng/ml		100
T AR1260 5 #2	11.876	0.0	497381.031	12.8115	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

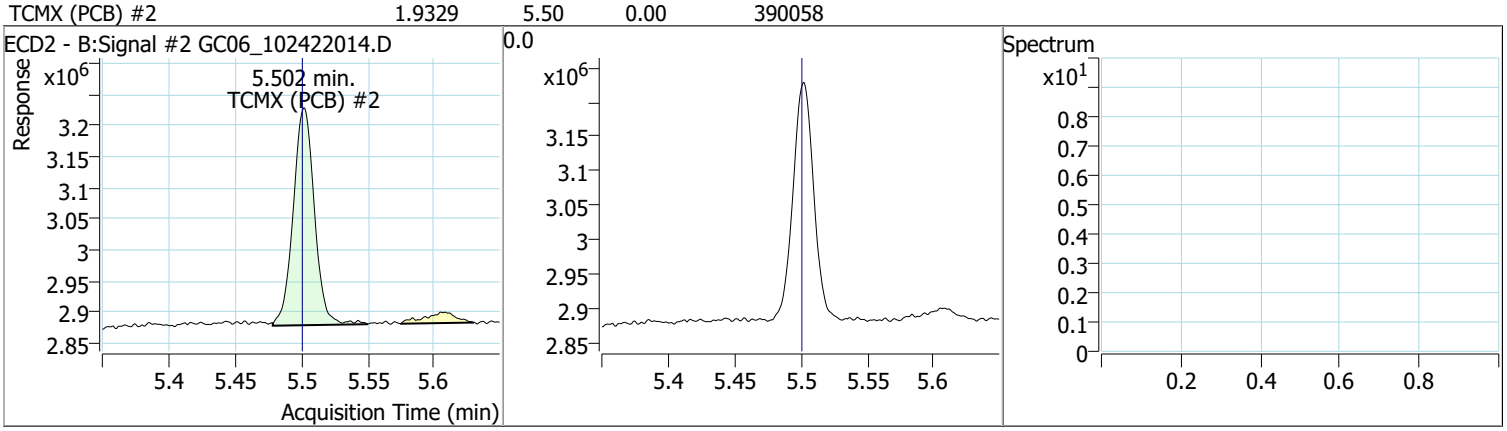
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	2.1171	5.10	0.00	105556				



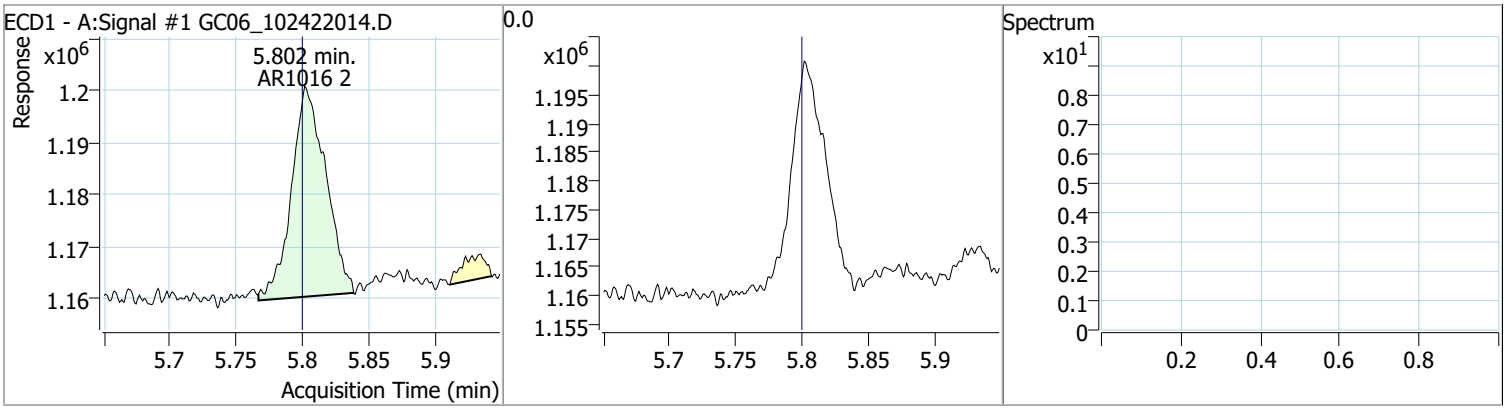
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AR1016 1	26.1951	5.46	0.00	28480				



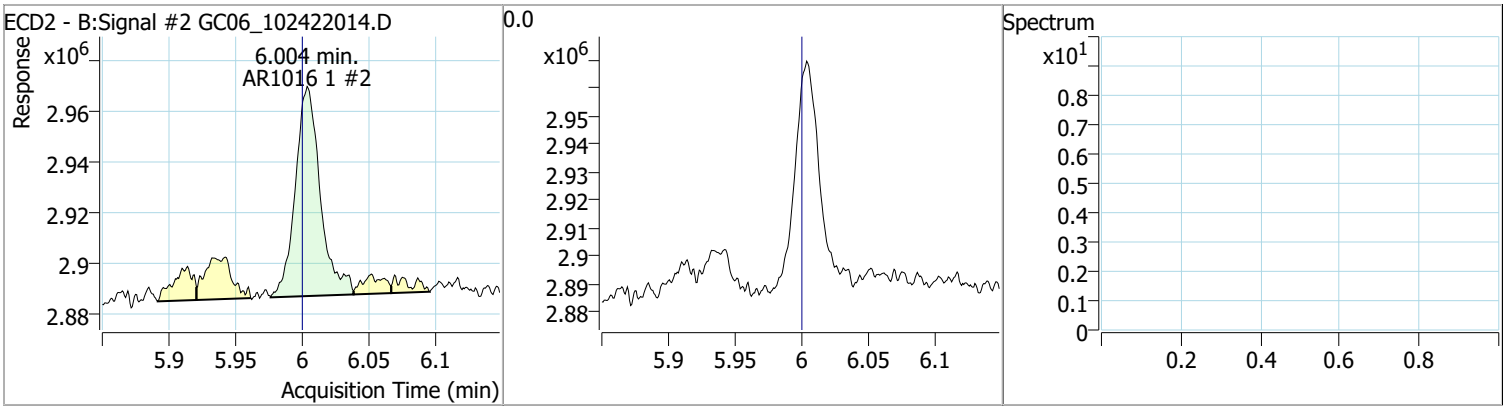
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TCMX (PCB) #2	1.9329	5.50	0.00	390058				



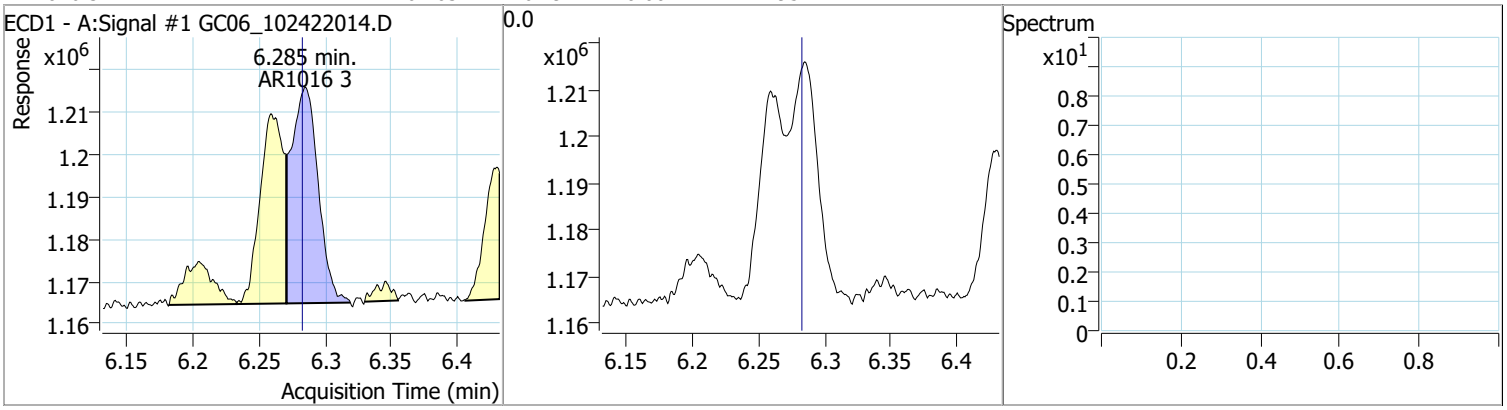
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AR1016 2	18.4116	5.80	0.00	73072				



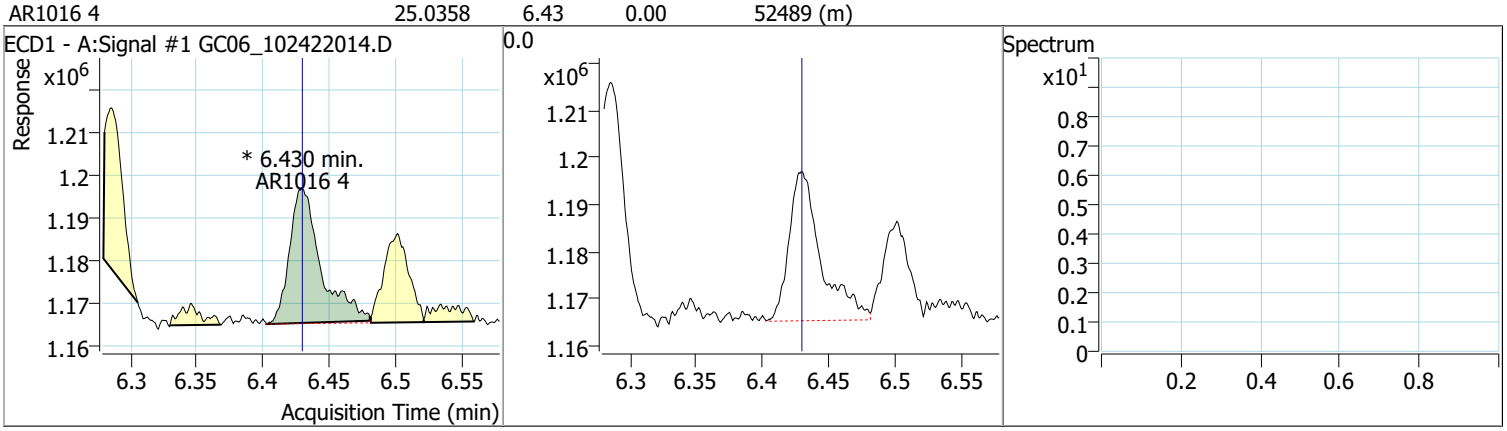
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AR1016 1 #2	24.8502	6.00	0.00	108525				



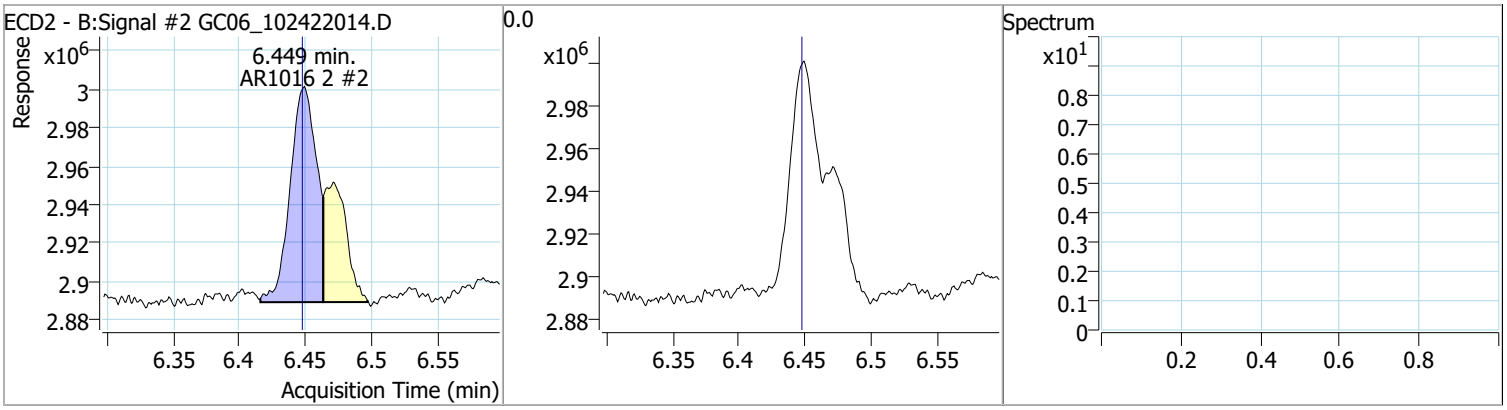
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AR1016 3	26.1037	6.29	0.00	71957				



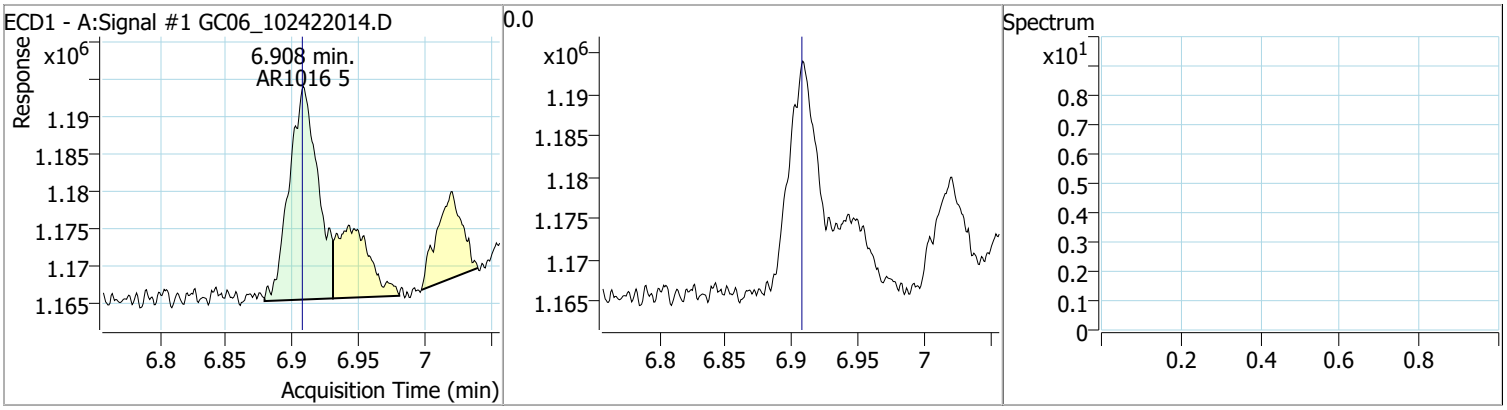
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	25.0358	6.43	0.00	52489 (m)				



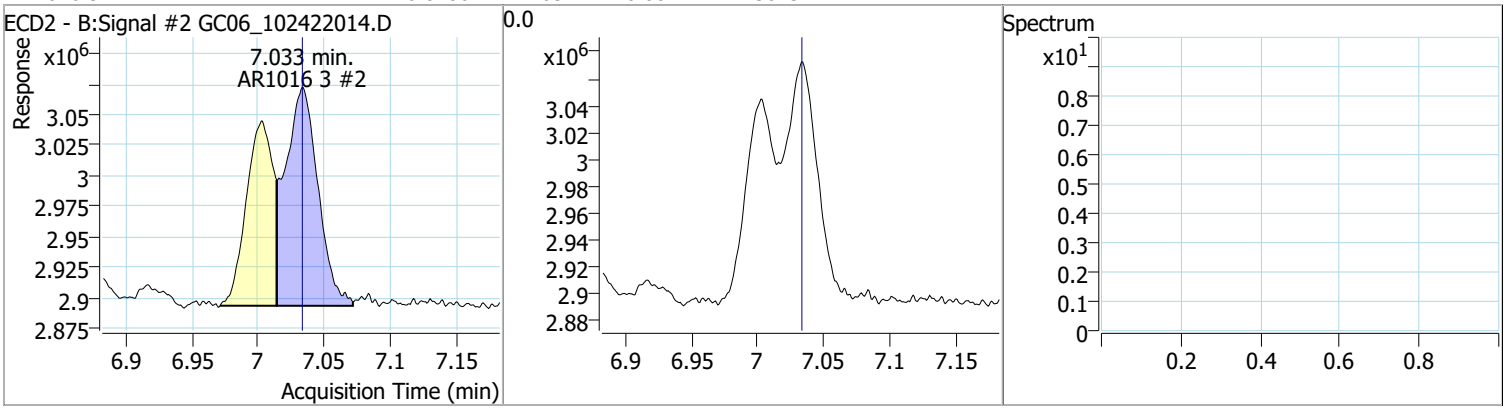
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AR1016 2 #2	24.5828	6.45	0.00	154975				



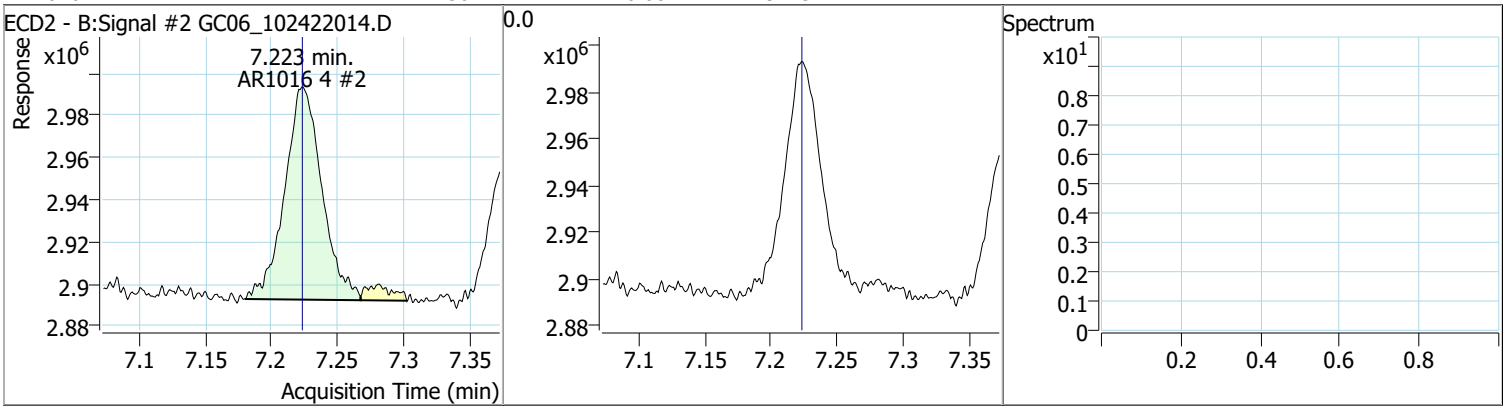
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	25.6262	6.91	0.00	43275				



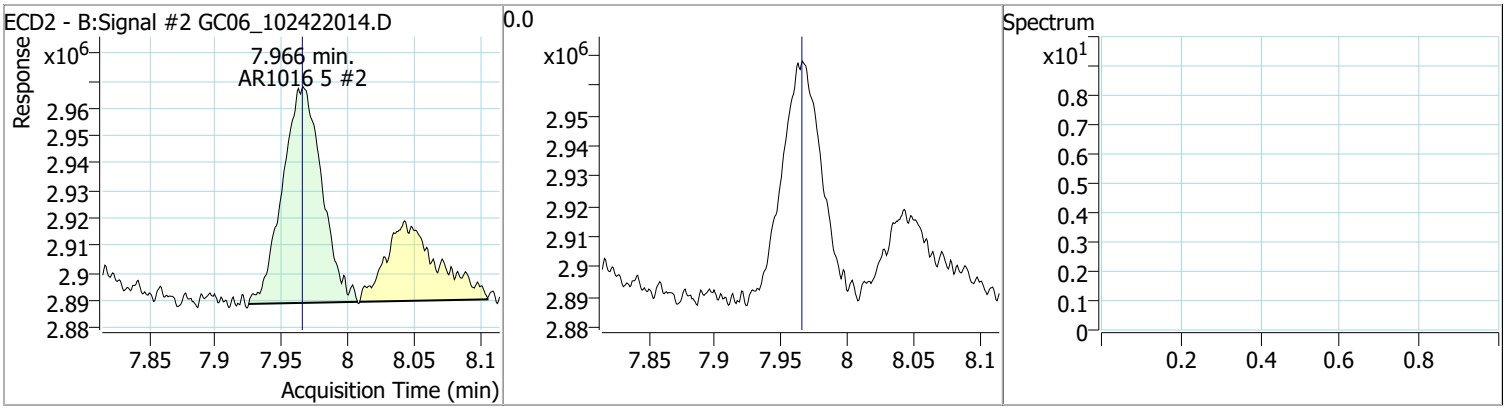
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AR1016 3 #2	26.8286	7.03	0.00	307317				



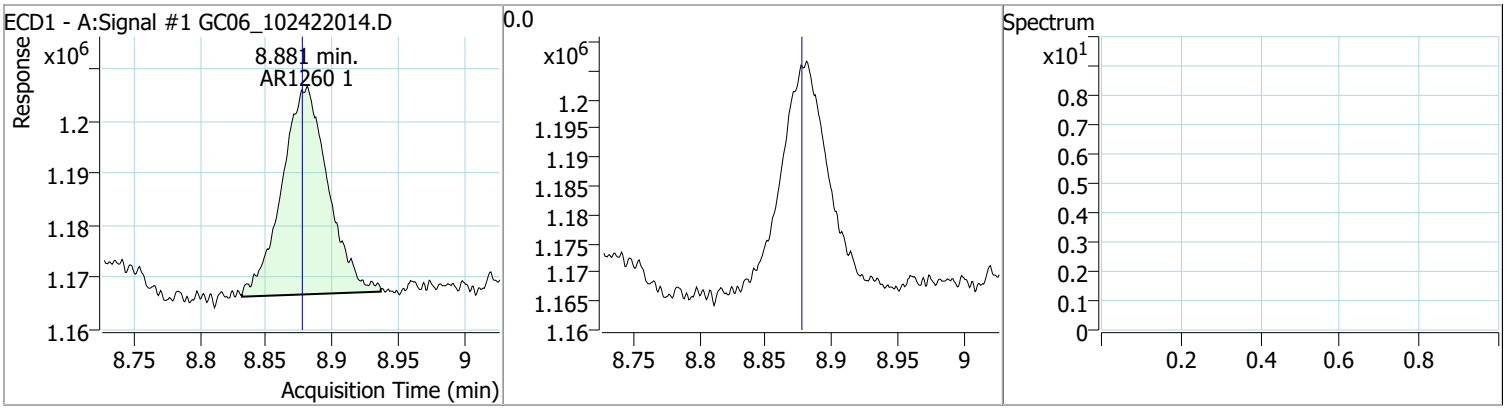
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AR1016 4 #2	24.1430	7.22	0.00	197434				



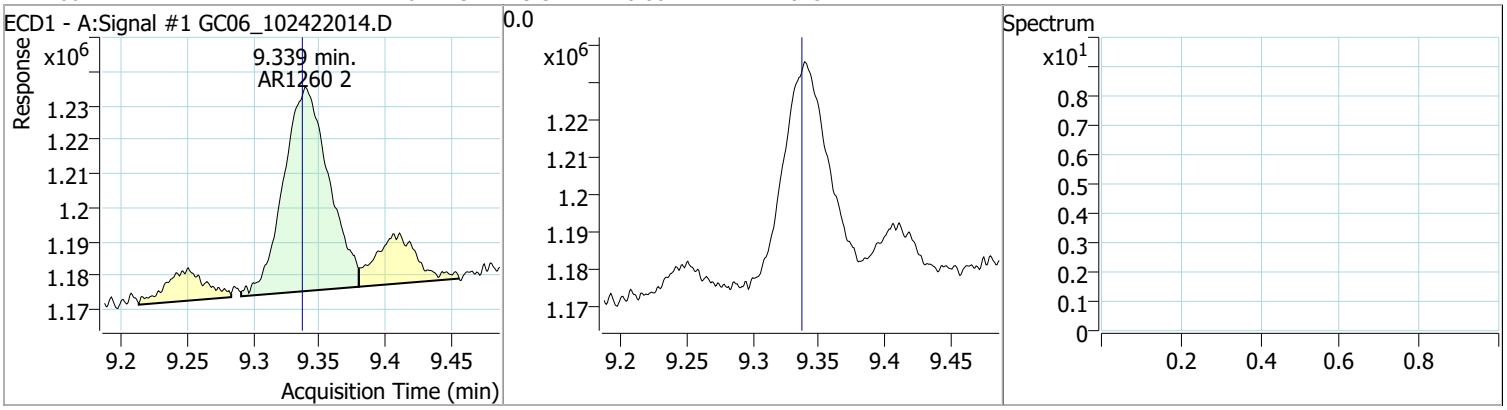
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AR1016 5 #2	24.5634	7.97	0.00	163278				



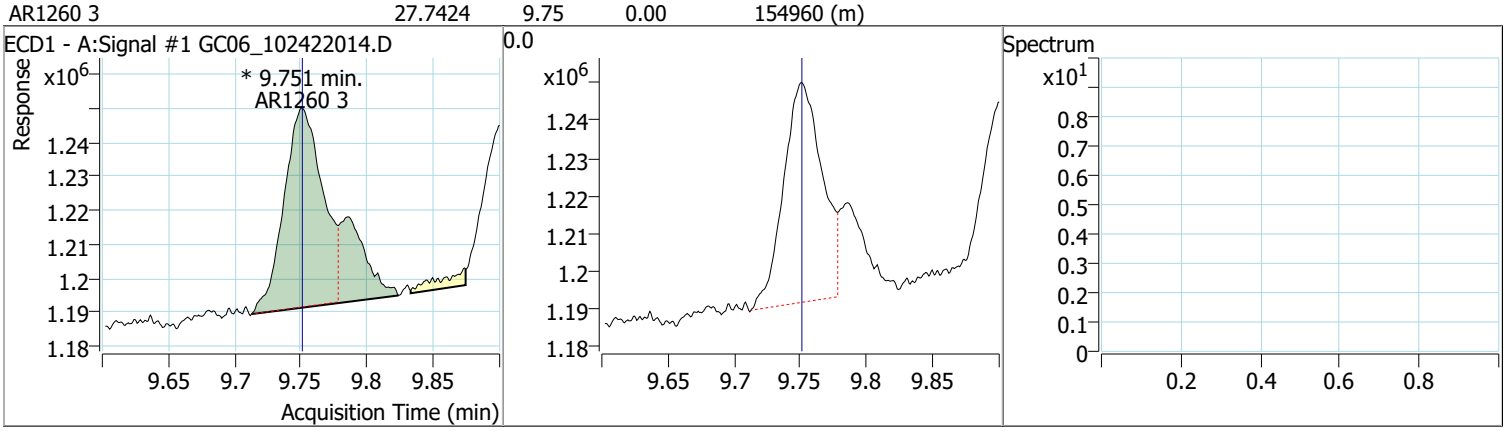
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	27.7000	8.88	0.00	97121				



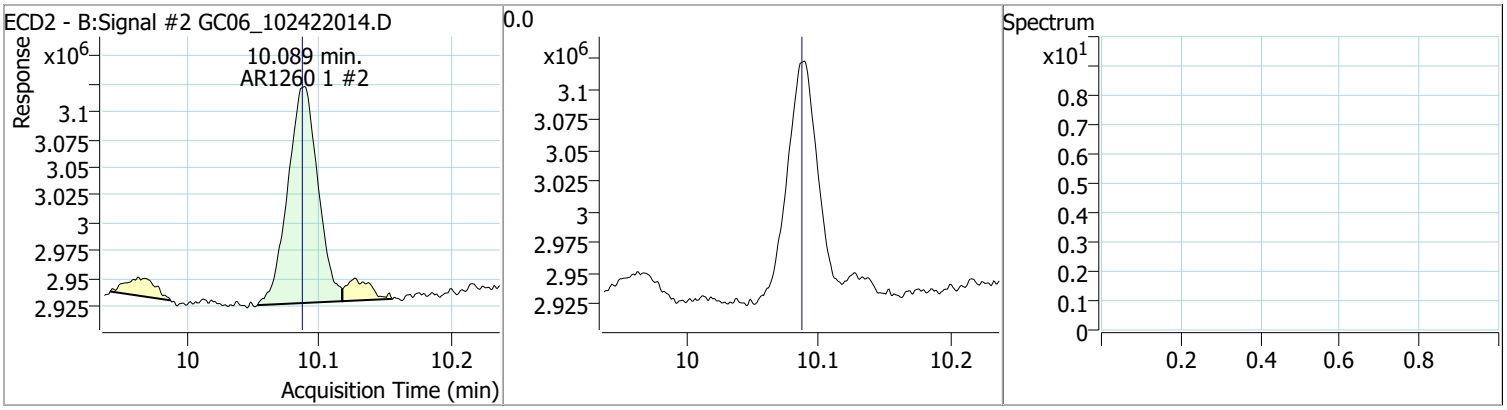
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	26.7243	9.34	0.00	142815				



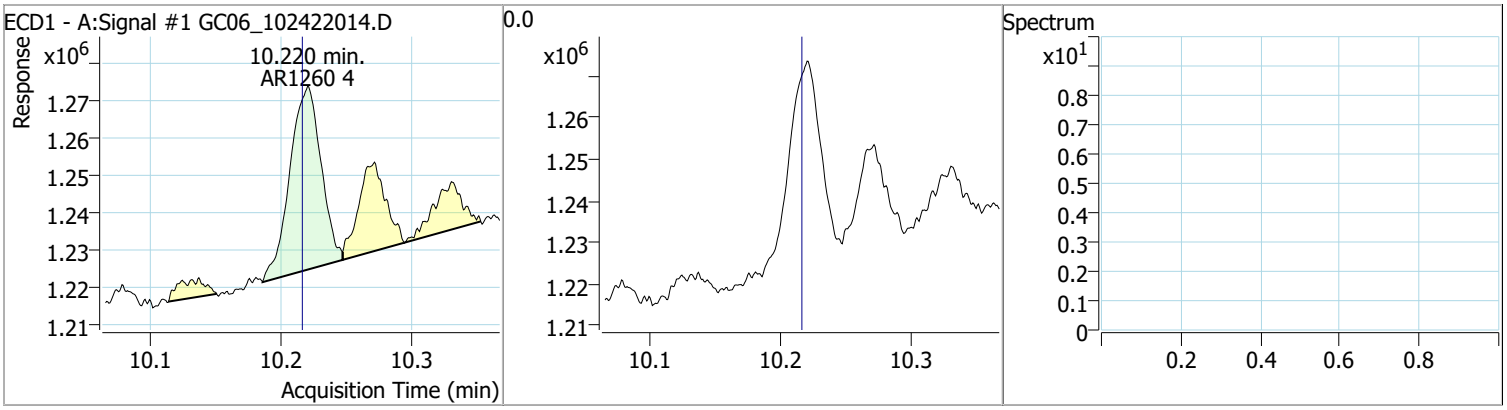
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	27.7424	9.75	0.00	154960 (m)				



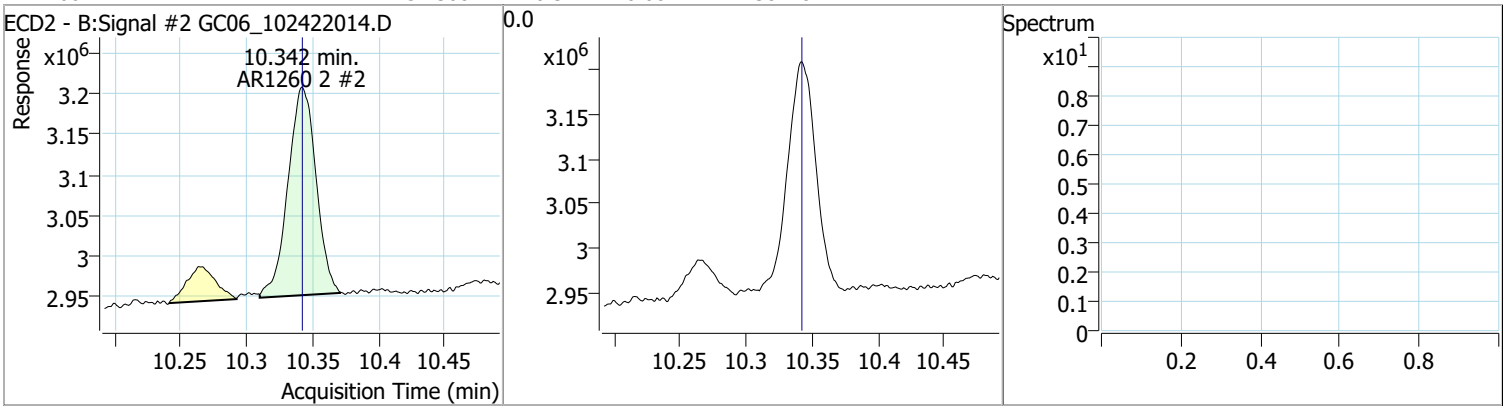
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AR1260 1 #2	24.8911	10.09	0.00	311262				



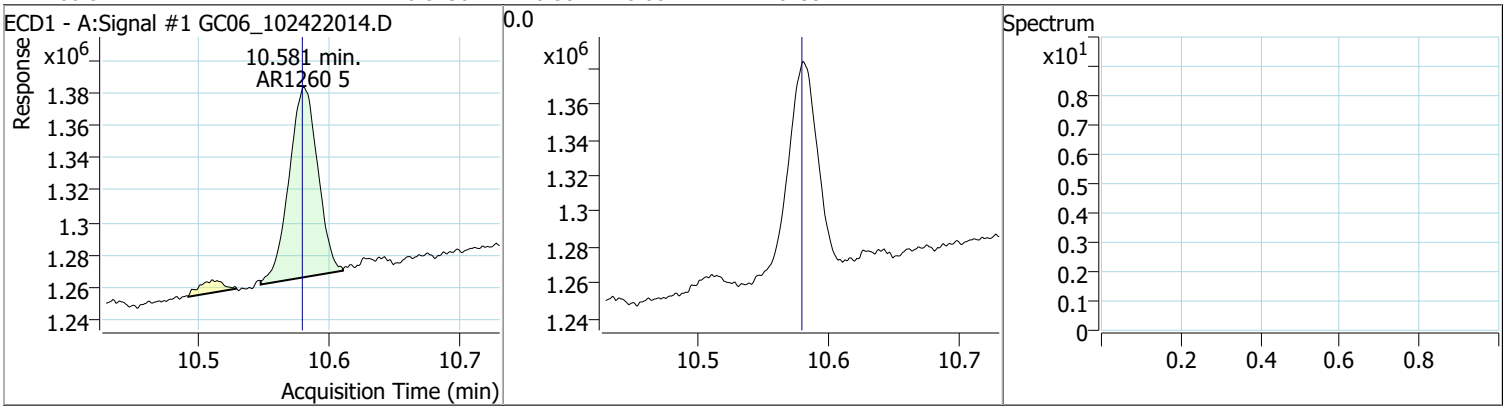
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	11.8240	10.22	0.00	80436				



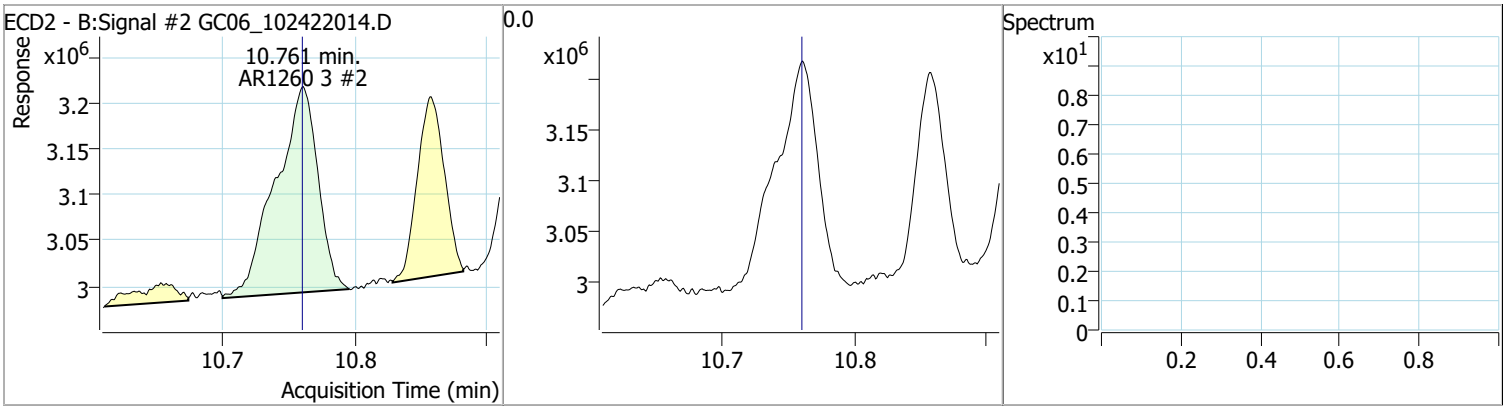
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AR1260 2 #2	25.4368	10.34	0.00	382187				



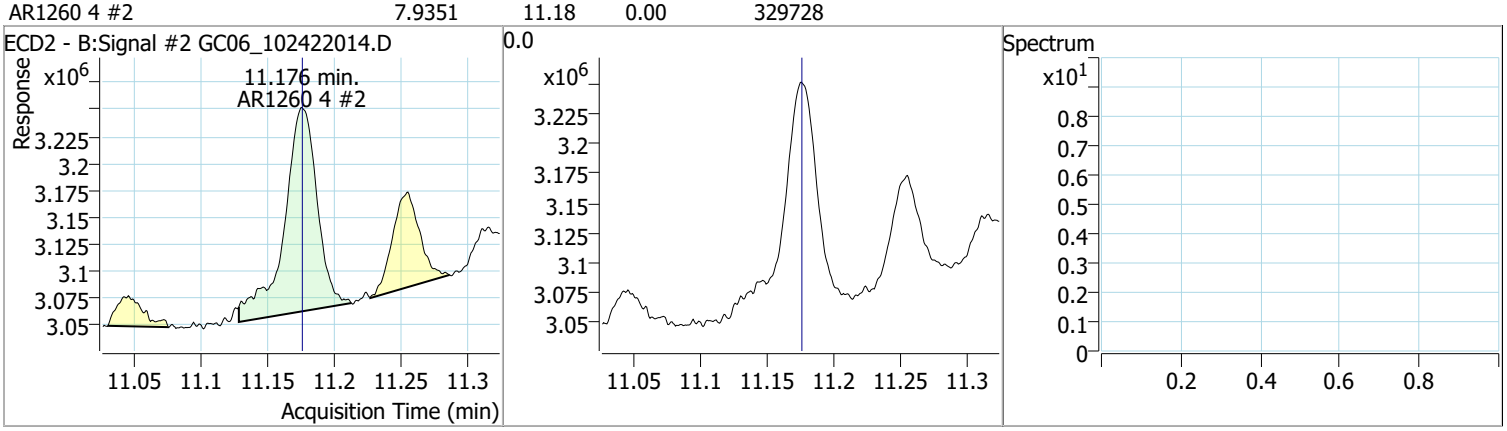
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	10.5736	10.58	0.00	178299				



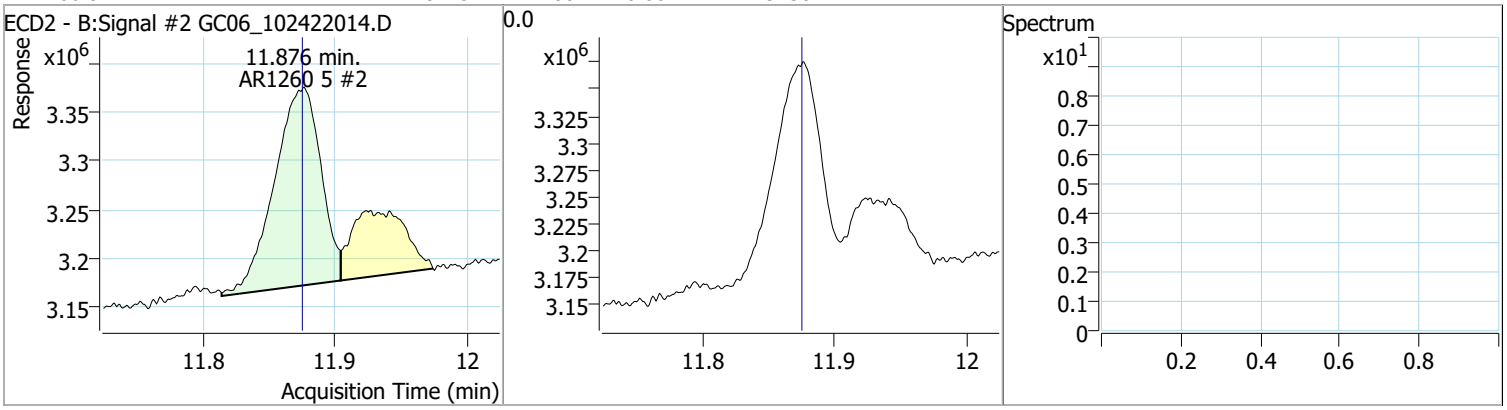
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	26.2151	10.76	0.00	498567				



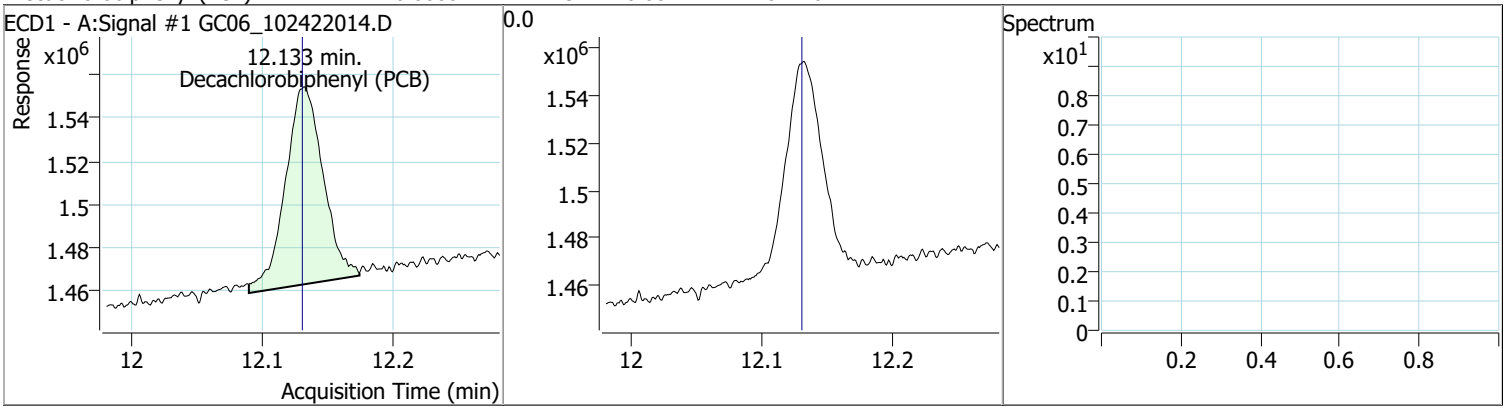
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	7.9351	11.18	0.00	329728				



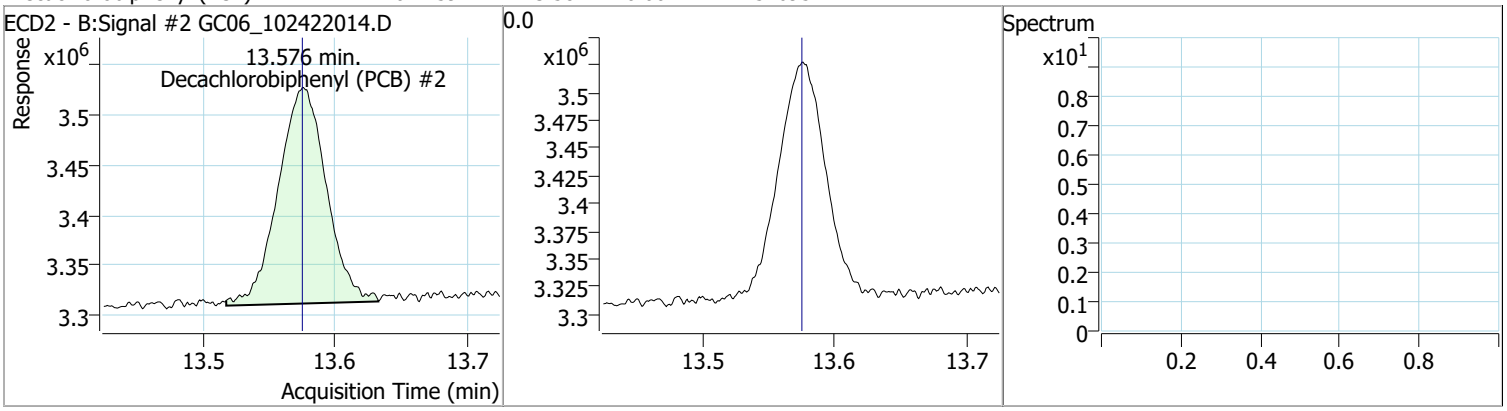
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	12.8115	11.88	0.00	497381				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	0.0000	12.13	0.00	184176				

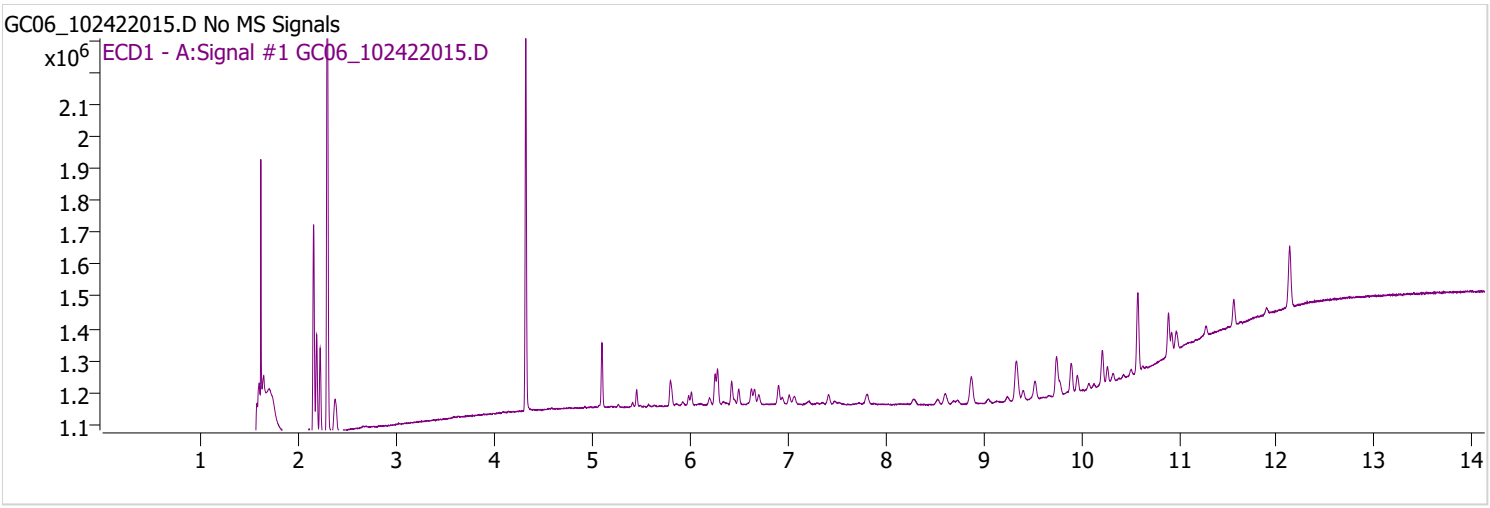


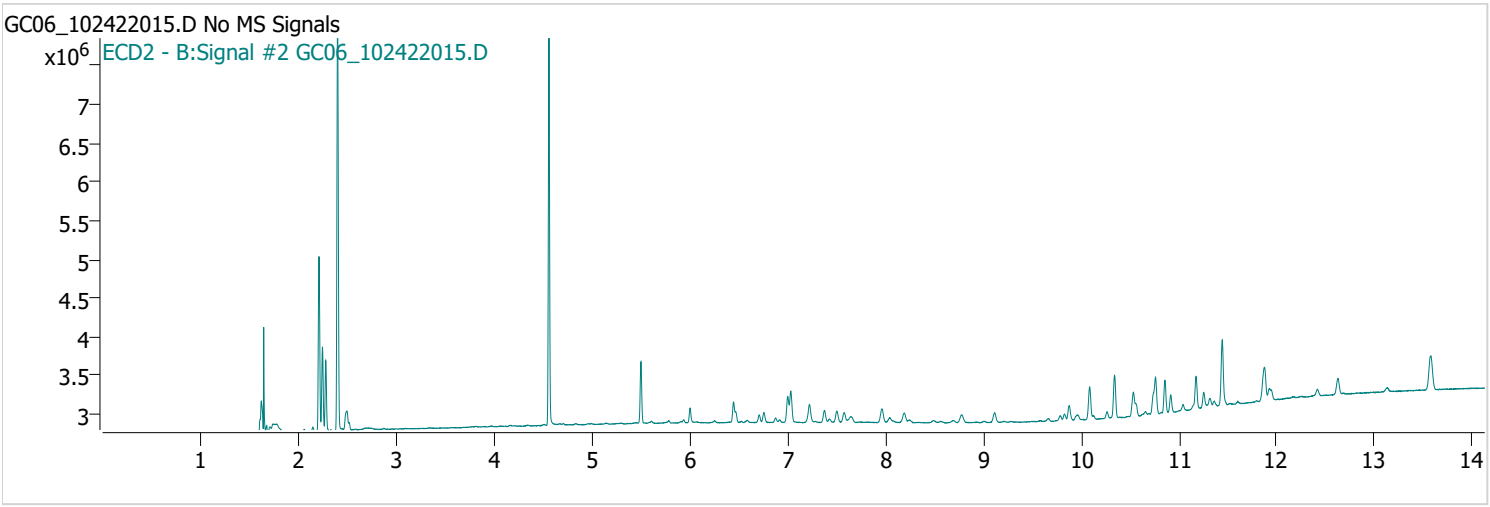
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	0.4459	13.58	0.00	546954				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422015.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 5:44:04 PM
Sample Name	ICAL, S17264	Instrument	SVOA-GC06
Vial	12	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



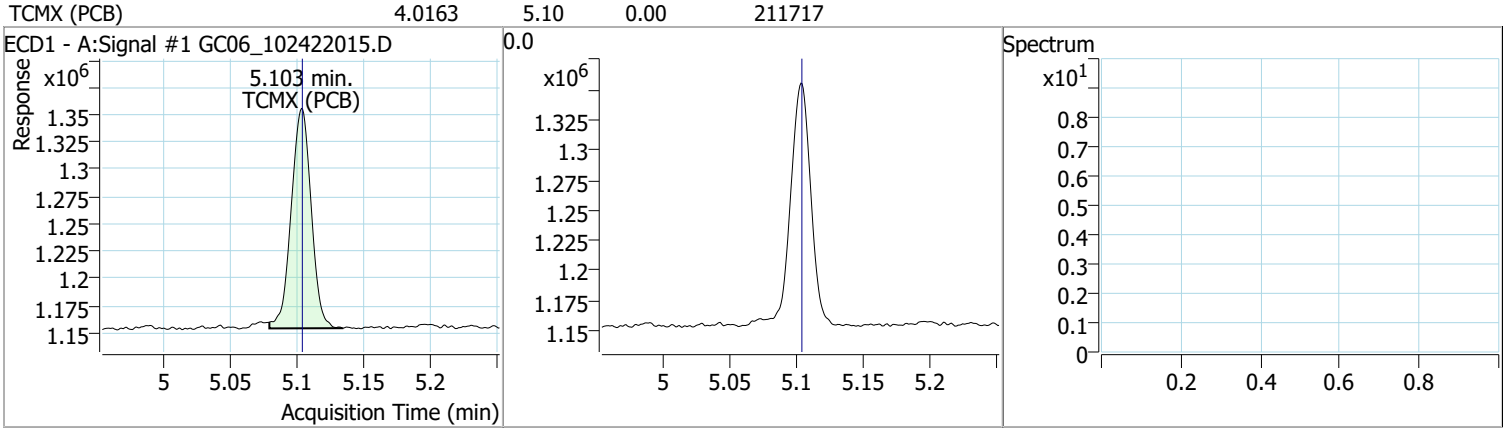


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1096423.491	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	4414084.352	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	211717.395	4.0163	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.08%		*	
S TCMX (PCB) #2	5.502	0.0	880844.251	4.1552	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.78%		*	
S Decachlorobiphenyl (PCB)	12.132	0.0	366663.673	1.1956	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 5.98%		*	
S Decachlorobiphenyl (PCB) #2	13.575	0.0	1117873.667	2.8657	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 14.33%		*	
Target Compounds							QValue
T AR1016 1	5.458	0.0	62800.739	54.6321	ng/ml		100
T AR1016 2	5.803	0.0	135262.778	43.7895	ng/ml		100

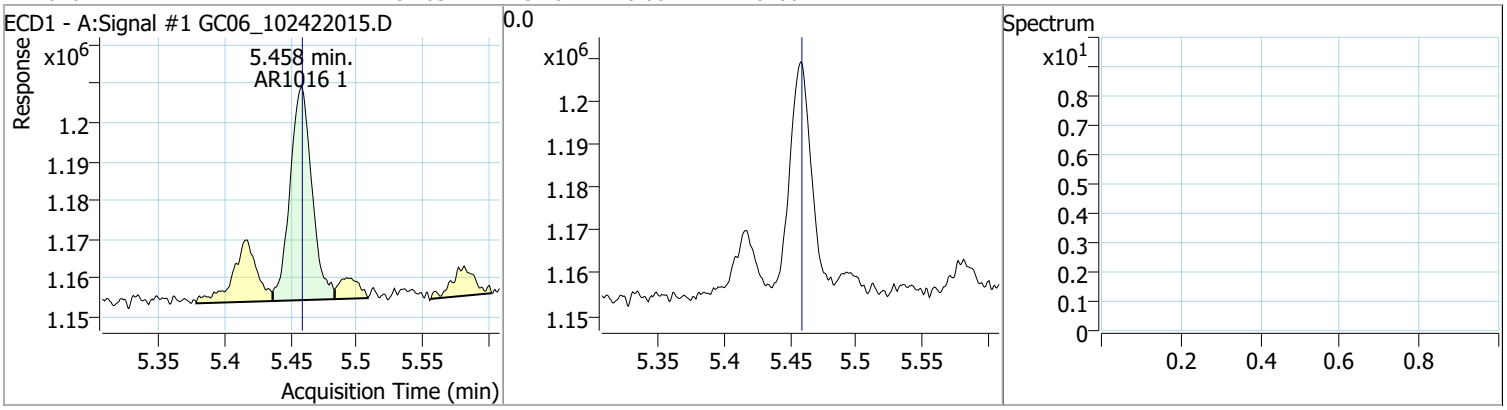
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1 #2	6.004	0.0	246736.718	53.7828	ng/ml		100
T AR1016 3	6.284	0.0	156745.895	53.7814	ng/ml		100
T AR1016 4	6.429	0.0	121378.176	54.7573	ng/ml	m	100
T AR1016 2 #2	6.448	0.0	361879.943	54.6441	ng/ml	m	100
T AR1016 5	6.907	0.0	97415.221	54.5615	ng/ml		100
T AR1016 3 #2	7.033	0.0	652565.398	54.2308	ng/ml		100
T AR1016 4 #2	7.223	0.0	469712.957	54.6779	ng/ml		100
T AR1016 5 #2	7.964	0.0	370461.655	53.0536	ng/ml		100
T AR1260 1	8.878	0.0	198864.945	53.6454	ng/ml		100
T AR1260 2	9.339	0.0	301488.499	53.3592	ng/ml		100
T AR1260 3	9.749	0.0	298525.793	50.5491	ng/ml		100
T AR1260 1 #2	10.088	0.0	703926.868	53.5865	ng/ml		100
T AR1260 4	10.215	0.0	180050.819	42.2826	ng/ml		100
T AR1260 2 #2	10.342	0.0	881097.856	55.8239	ng/ml		100
T AR1260 5	10.580	0.0	395492.284	42.0555	ng/ml		100
T AR1260 3 #2	10.760	0.0	1078261.882	53.9712	ng/ml		100
T AR1260 4 #2	11.174	0.0	694396.452	39.6741	ng/ml		100
T AR1260 5 #2	11.873	0.0	1020309.367	42.7953	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

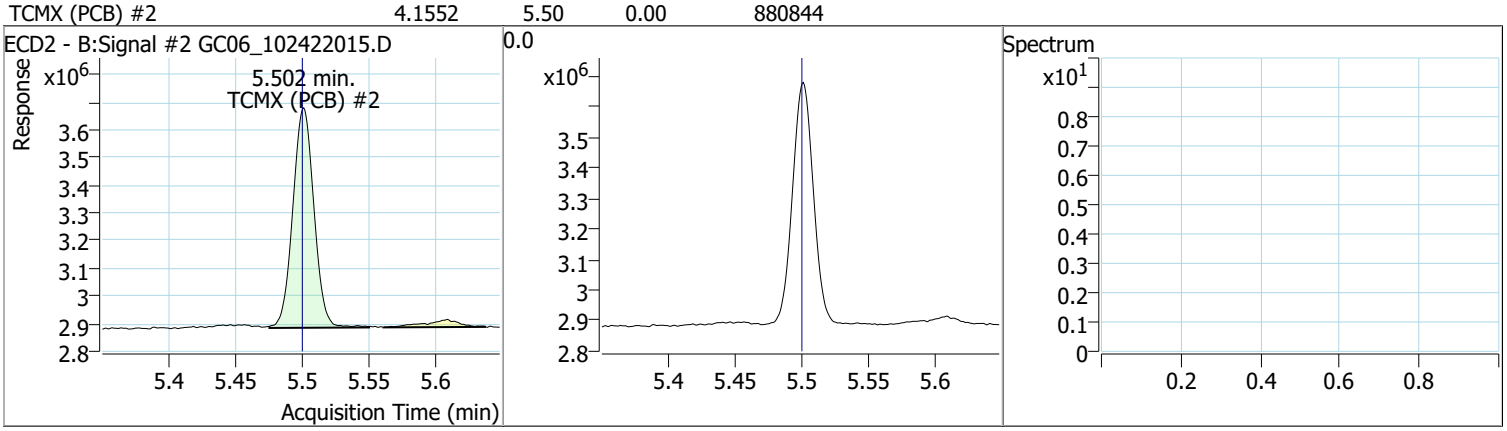
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	4.0163	5.10	0.00	211717				



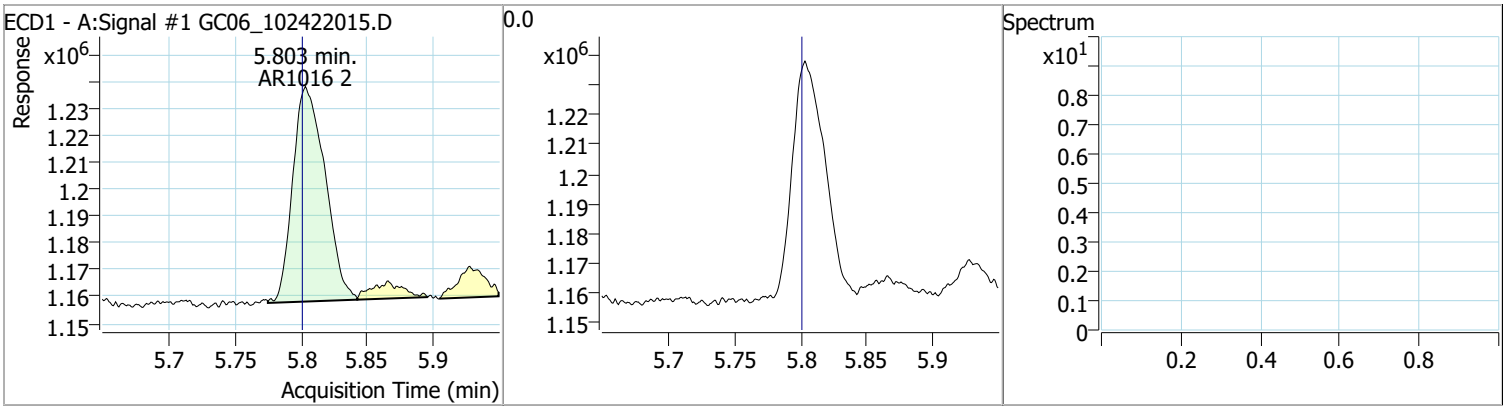
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	54.6321	5.46	0.00	62801				



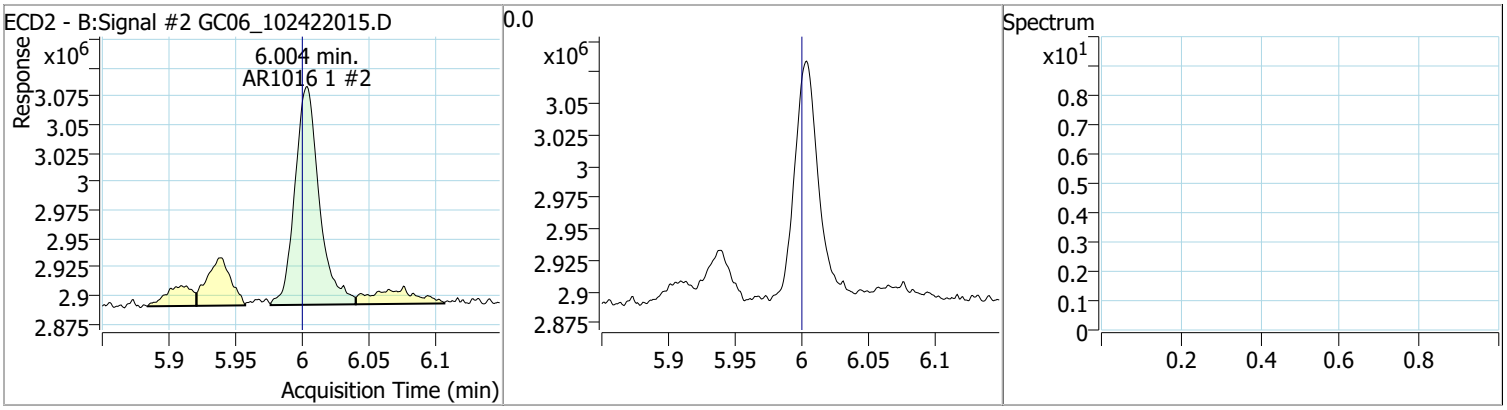
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	4.1552	5.50	0.00	880844				



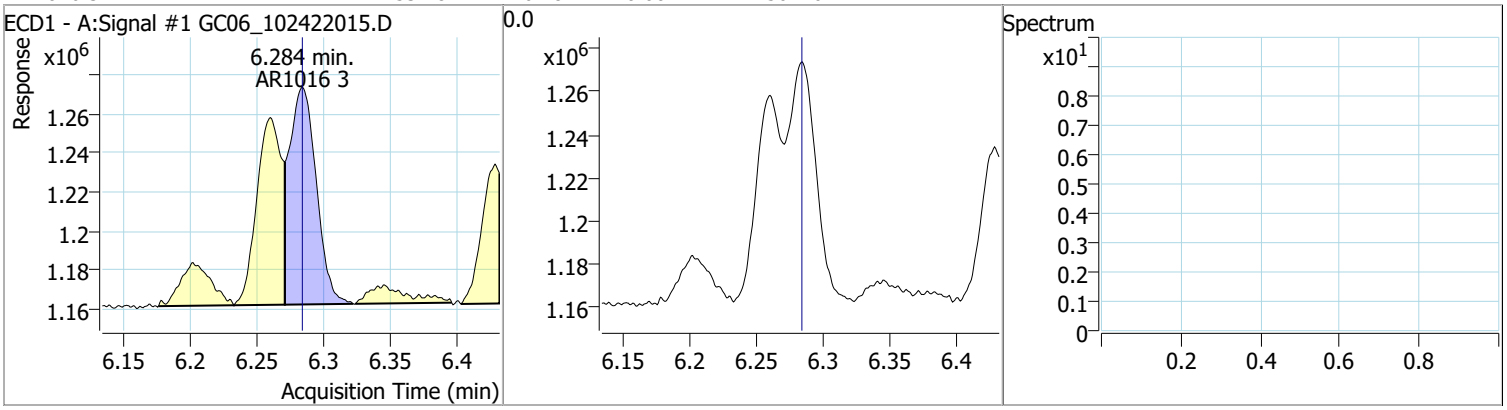
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	43.7895	5.80	0.00	135263				



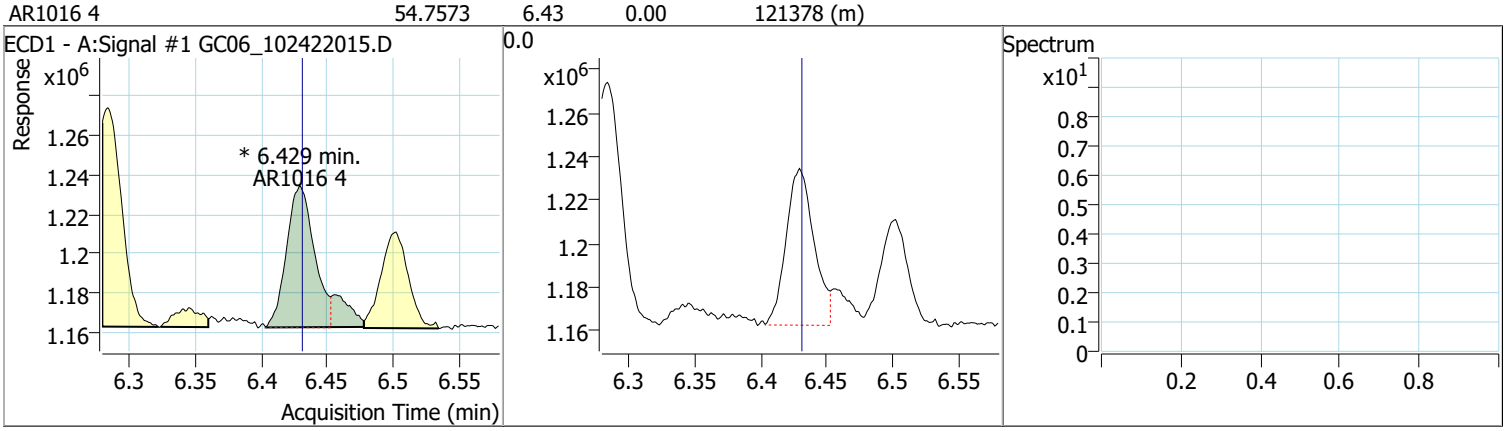
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	53.7828	6.00	0.00	246737				



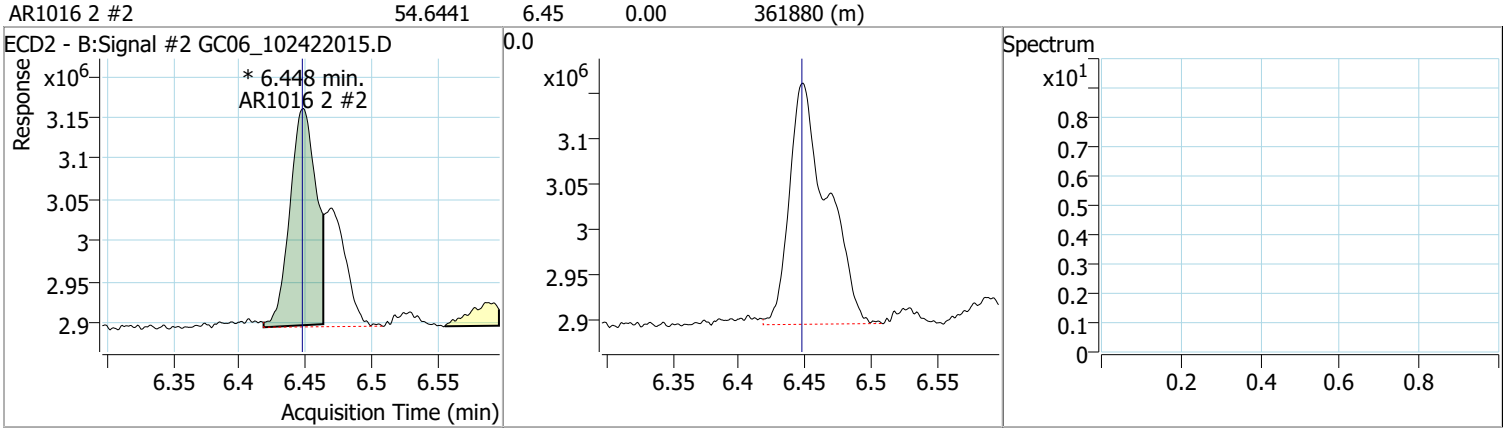
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AR1016 3	53.7814	6.28	0.00	156746				



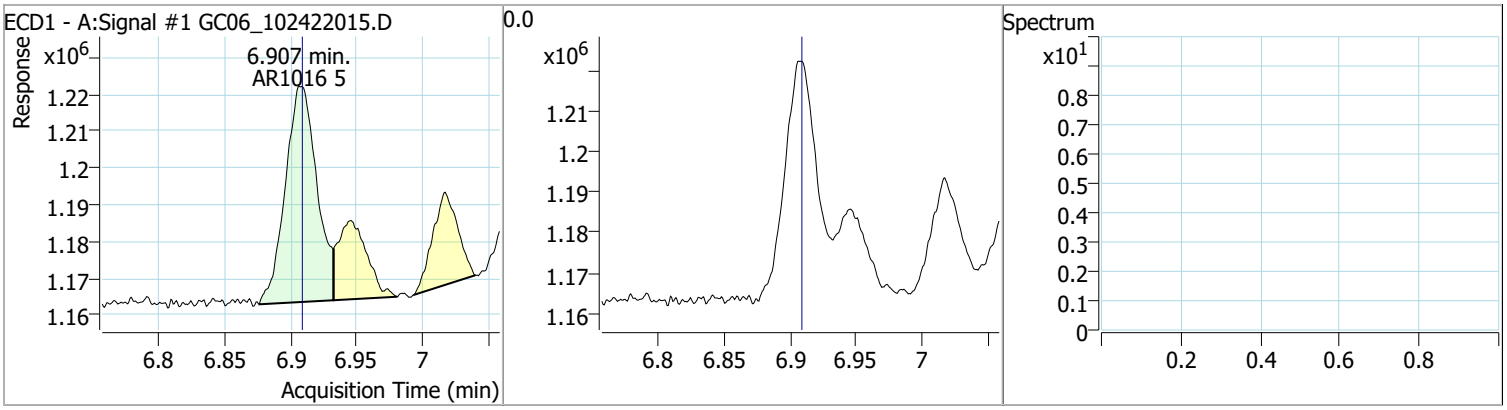
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	54.7573	6.43	0.00	121378 (m)				



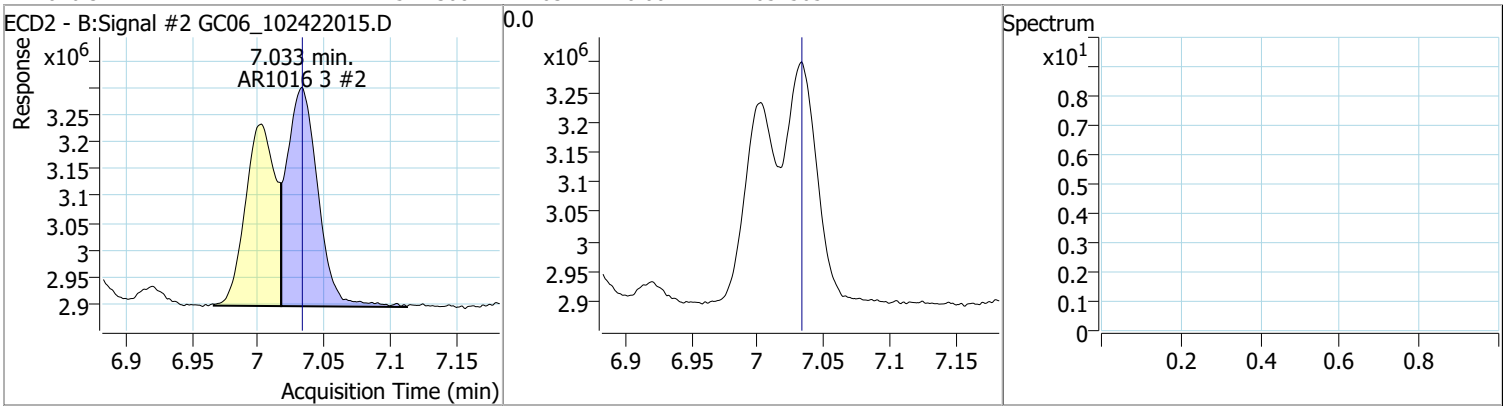
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	54.6441	6.45	0.00	361880 (m)				



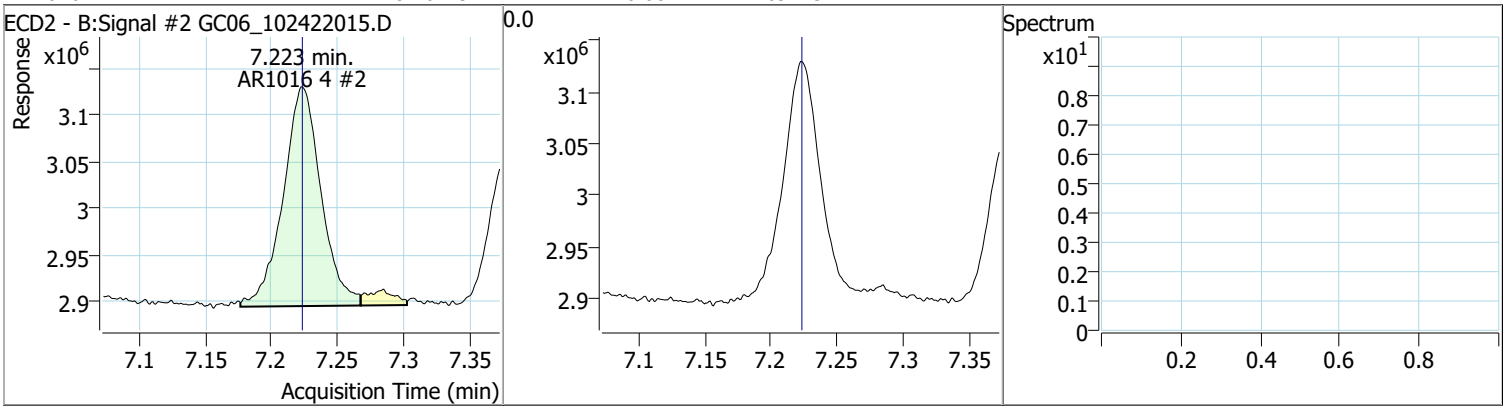
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	54.5615	6.91	0.00	97415				



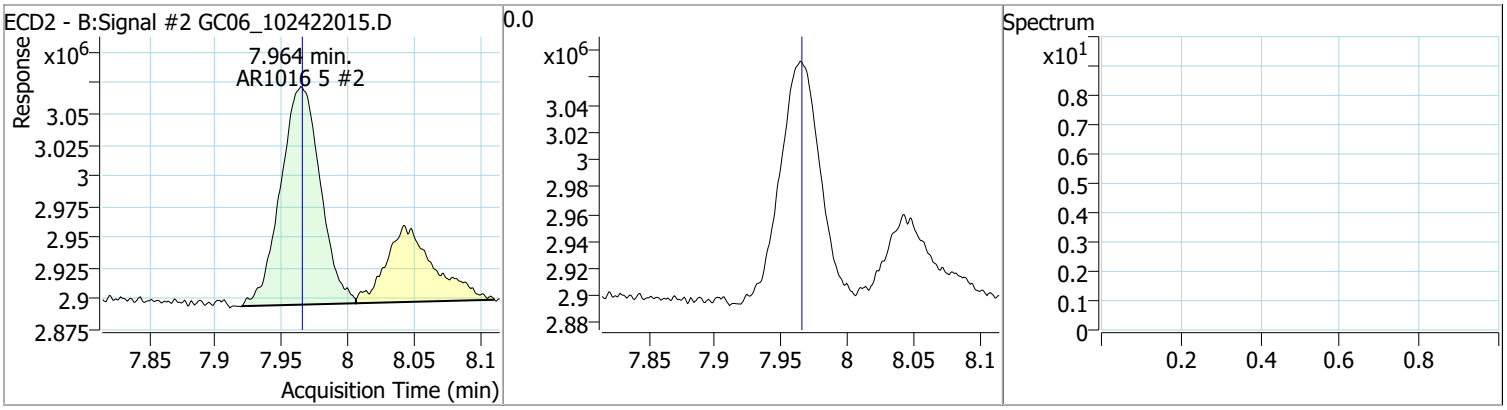
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AR1016 3 #2	54.2308	7.03	0.00	652565				



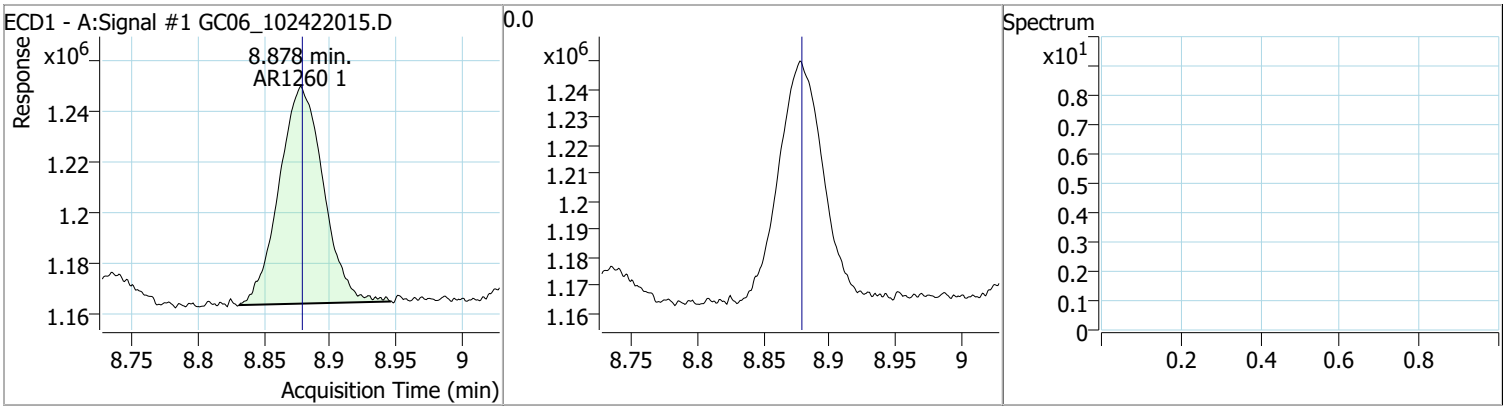
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AR1016 4 #2	54.6779	7.22	0.00	469713				



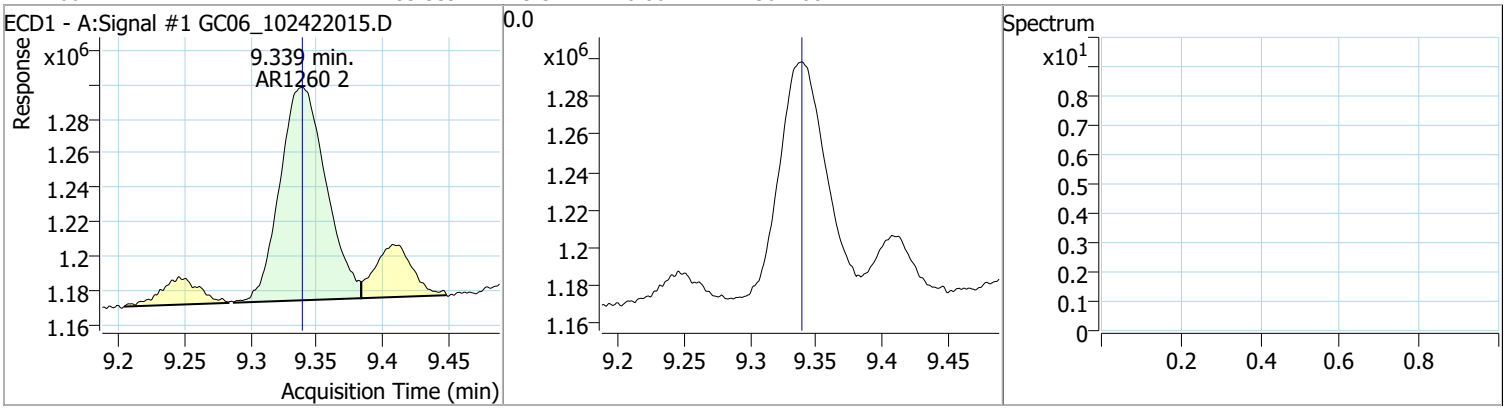
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AR1016 5 #2	53.0536	7.96	0.00	370462				



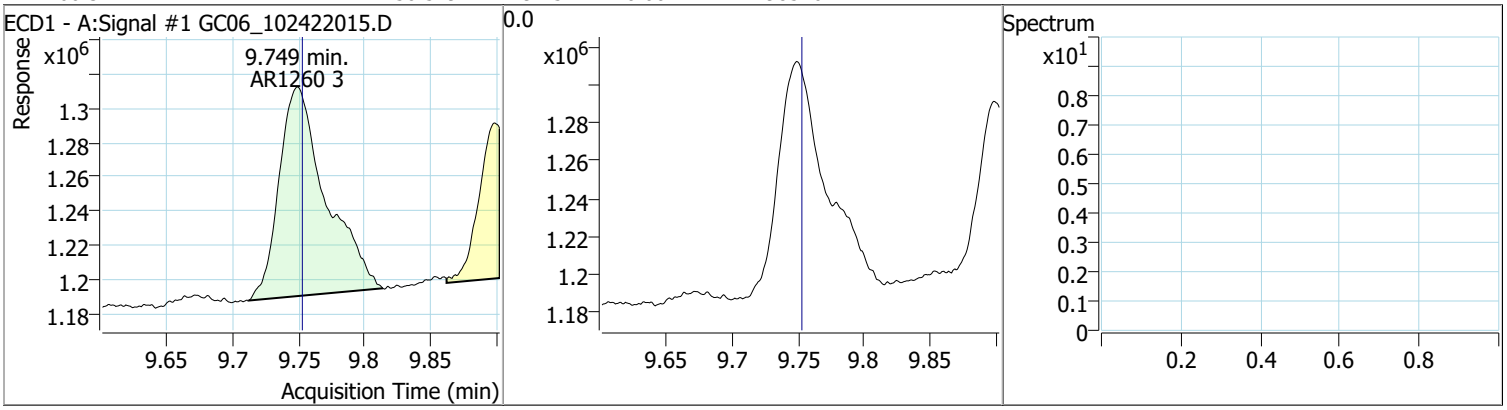
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	53.6454	8.88	0.00	198865				



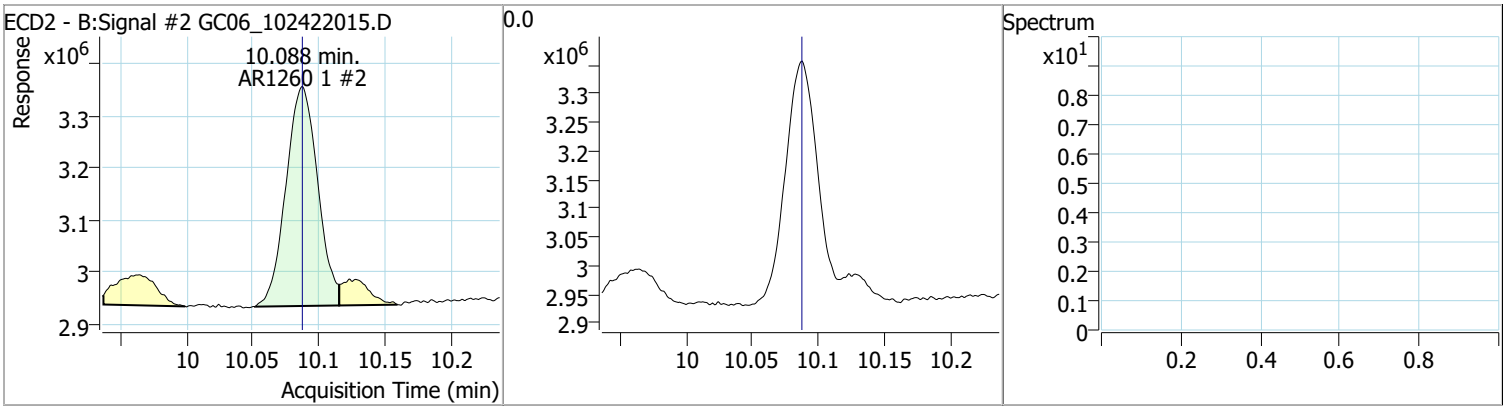
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	53.3592	9.34	0.00	301488				



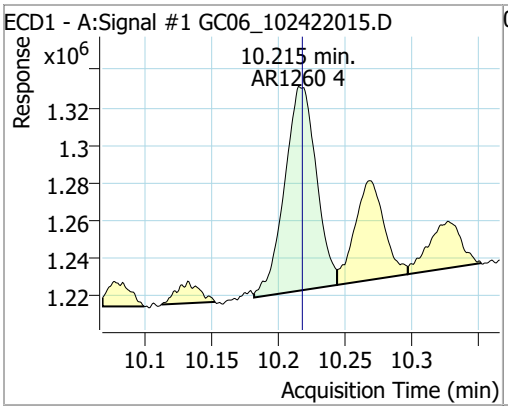
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	50.5491	9.75	0.00	298526				

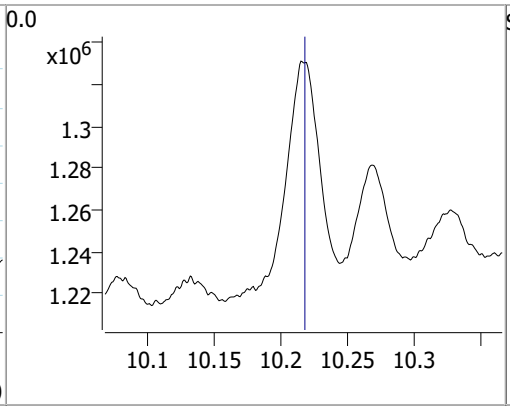


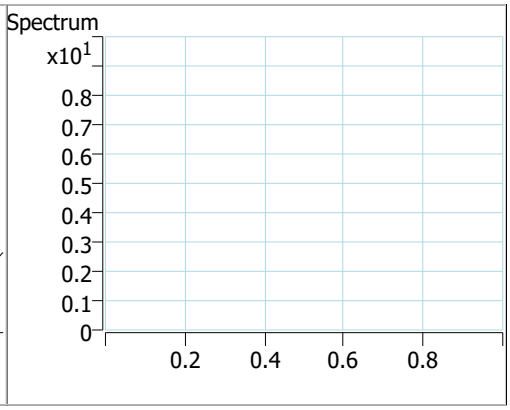
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	53.5865	10.09	0.00	703927				



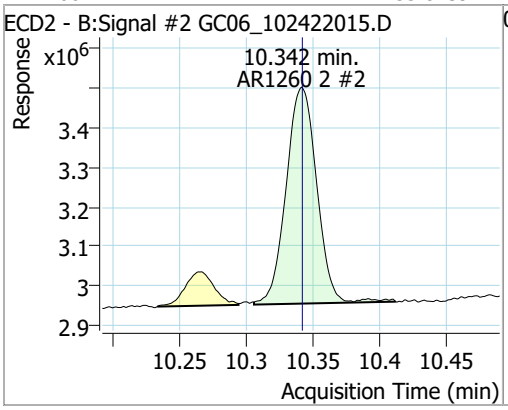
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	42.2826	10.22	0.00	180051				

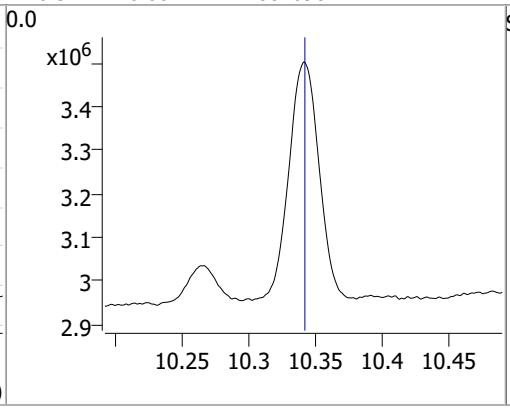


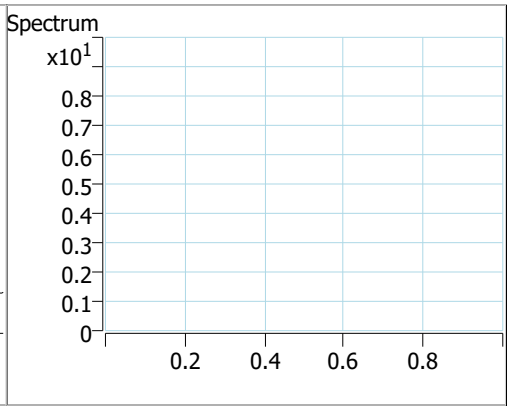




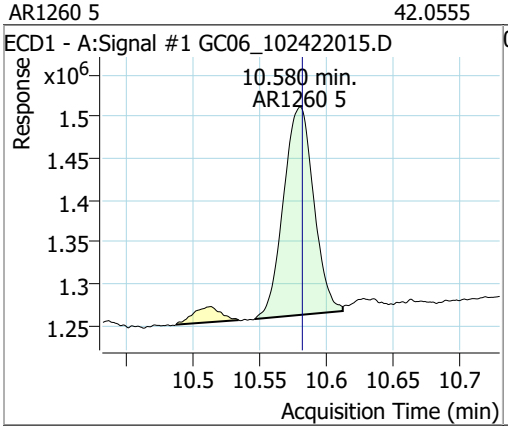
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	55.8239	10.34	0.00	881098				

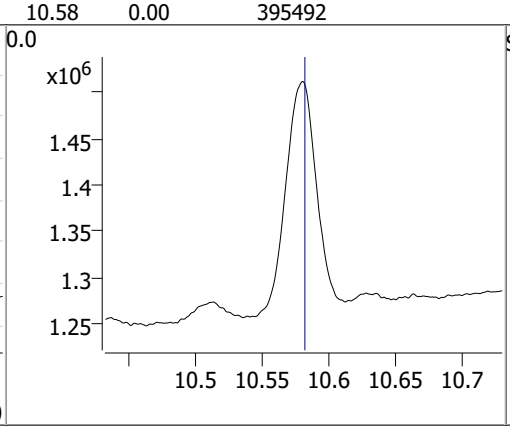


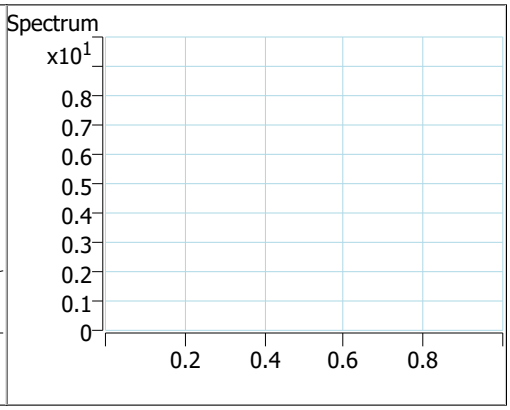




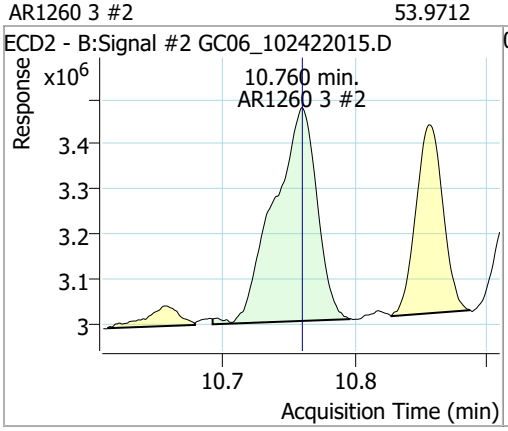
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	42.0555	10.58	0.00	395492				

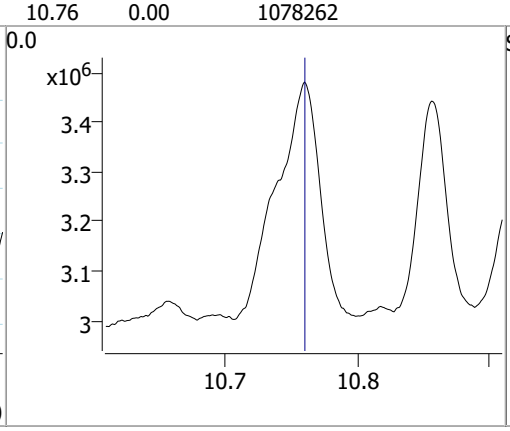


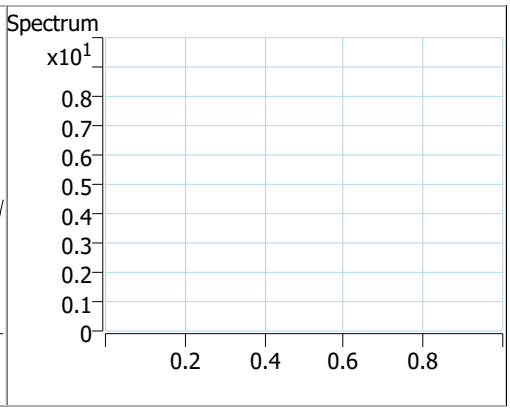




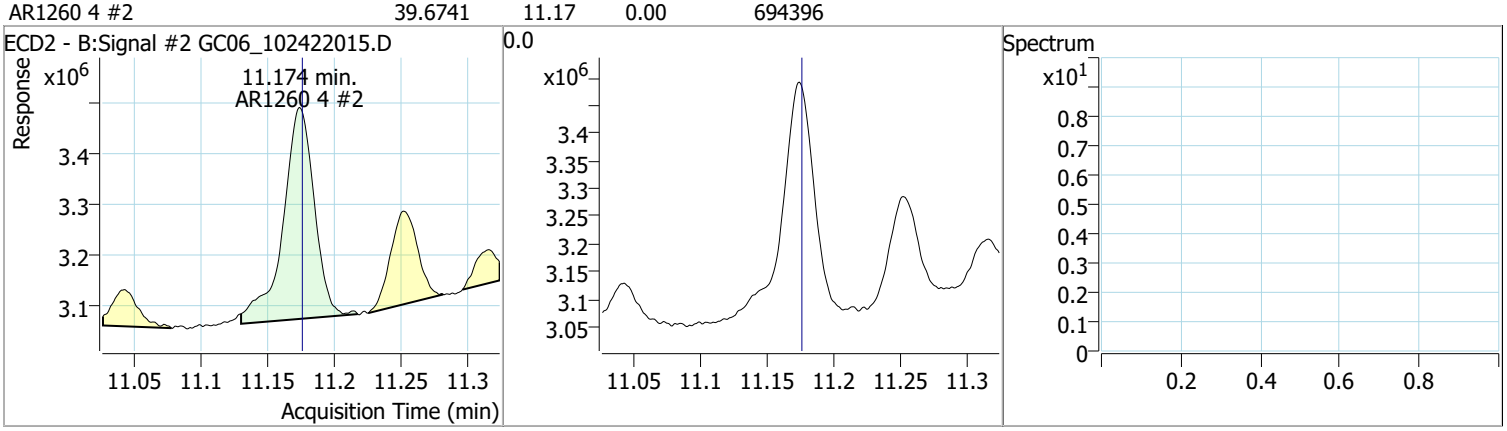
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	53.9712	10.76	0.00	1078262				



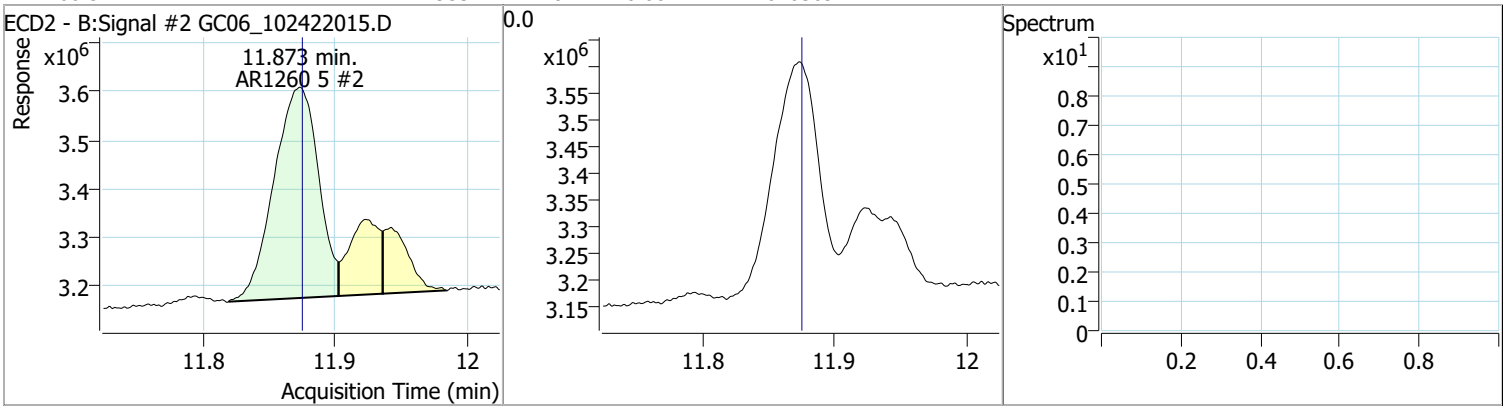




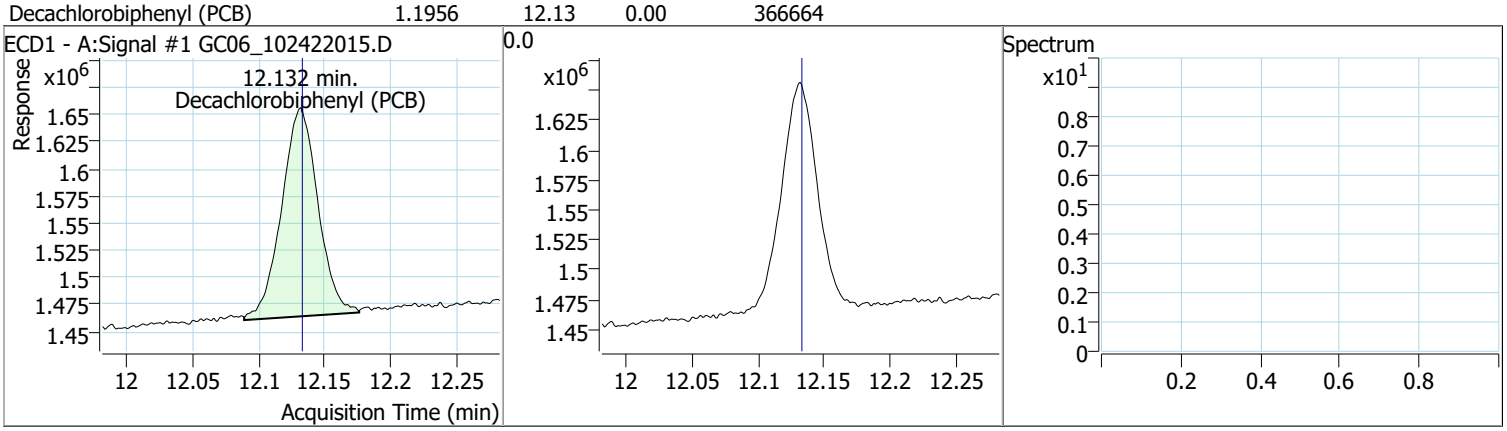
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	39.6741	11.17	0.00	694396				



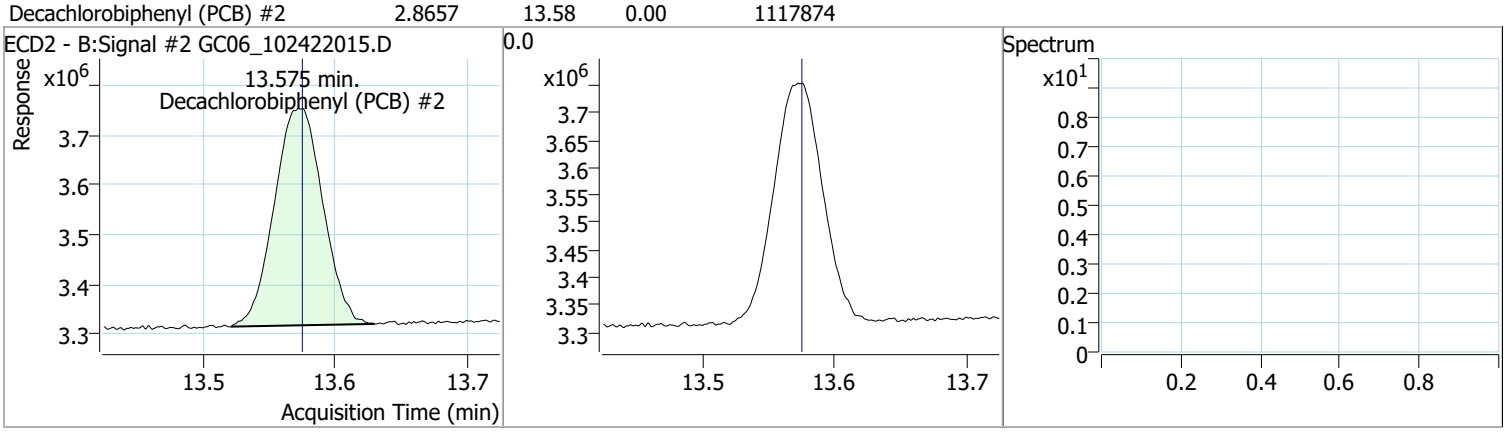
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	42.7953	11.87	0.00	1020309				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	1.1956	12.13	0.00	366664				

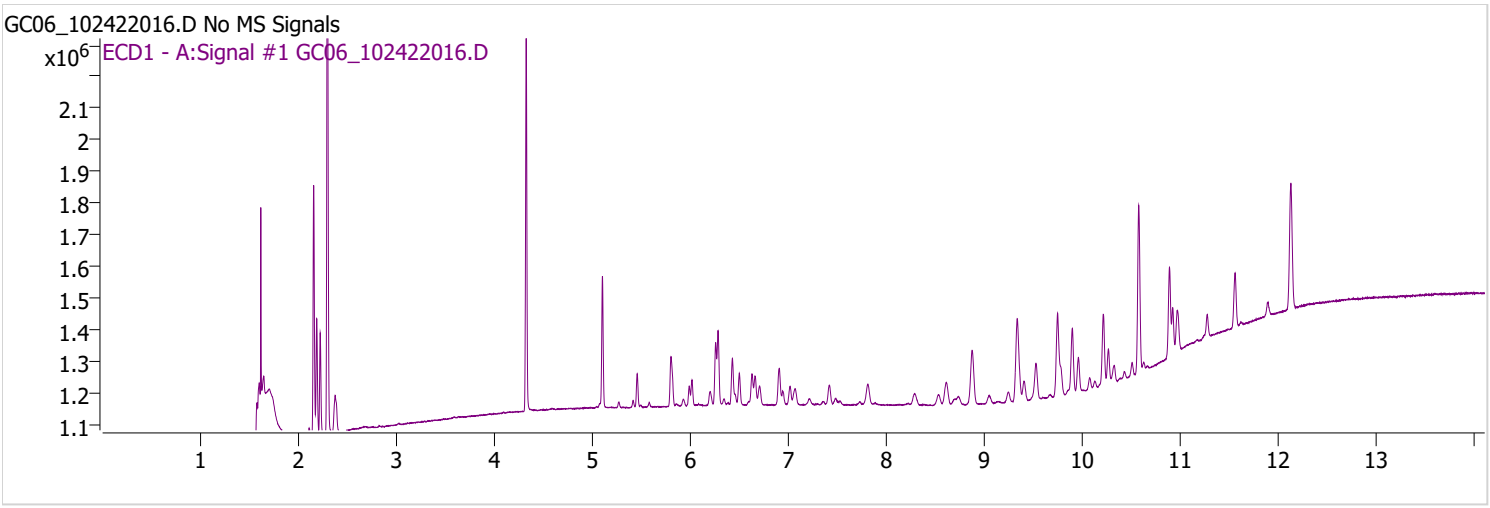


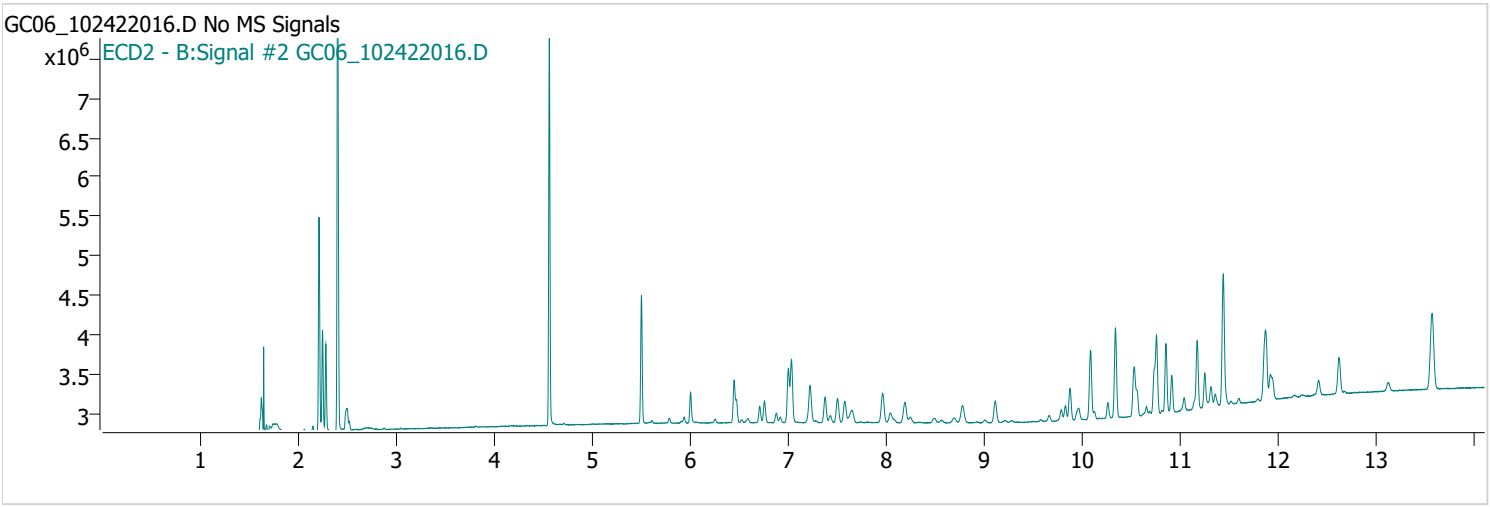
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	2.8657	13.58	0.00	1117874				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422016.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 6:02:02 PM
Sample Name	ICAL, S17265	Instrument	SVOA-GC06
Vial	13	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



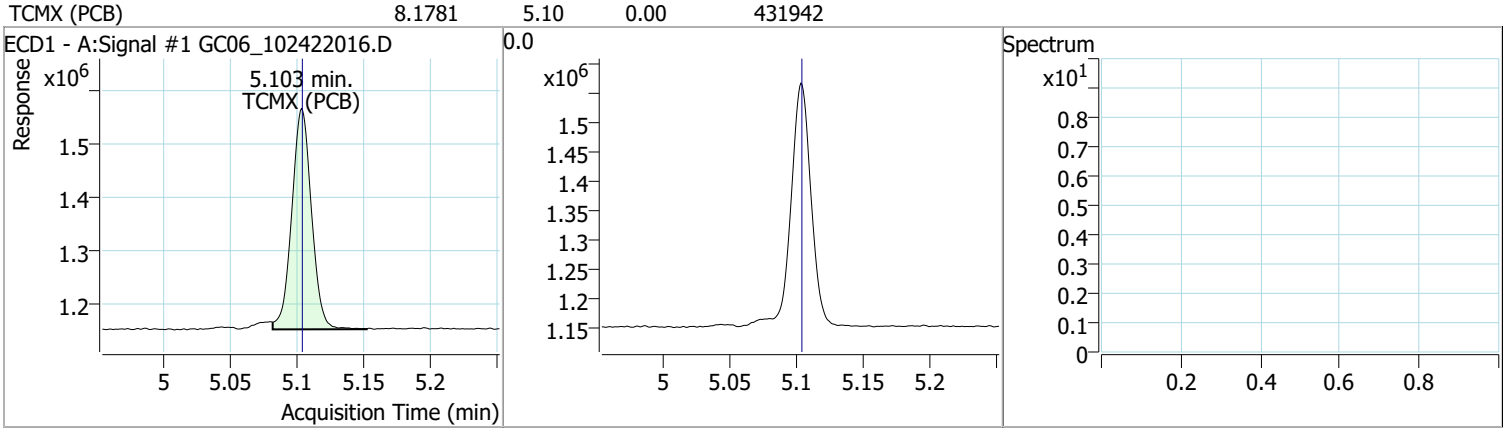


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1098556.587	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.561	0.0	4473955.688	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	431941.849	8.1781	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 40.89%		*	
S TCMX (PCB) #2	5.502	0.0	1756841.947	8.1767	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 40.88%		*	
S Decachlorobiphenyl (PCB)	12.133	0.0	769715.326	7.2383	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 36.19%		*	
S Decachlorobiphenyl (PCB) #2	13.576	0.0	2414988.806	8.4992	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 42.50%		*	
Target Compounds							**QValue**
T AR1016 1	5.458	0.0	126029.603	109.4237	ng/ml		100

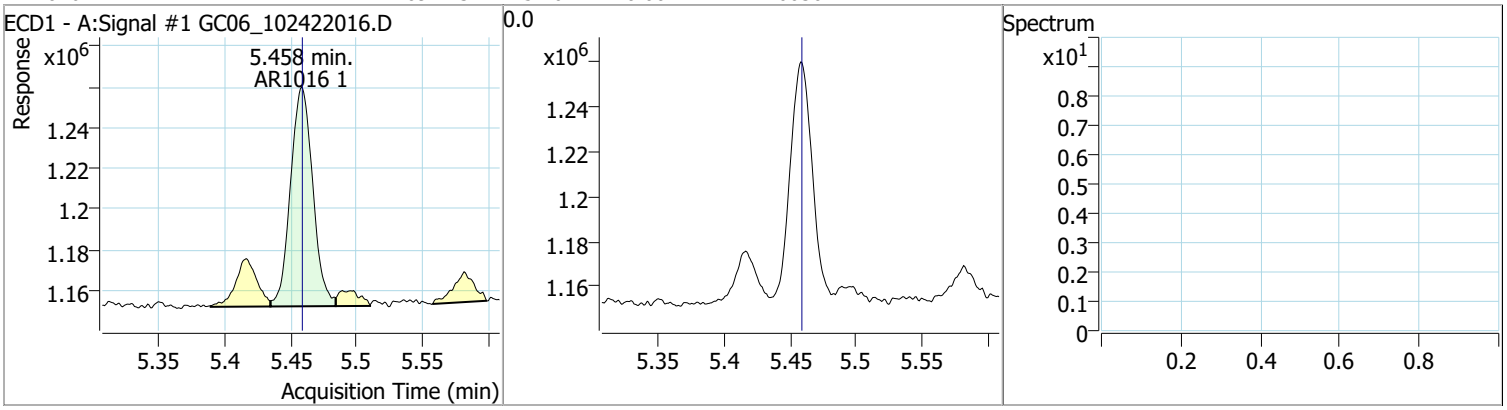
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 2	5.803	0.0	273792.604	104.1655	ng/ml		100
T AR1016 1 #2	6.003	0.0	494438.051	106.3335	ng/ml		100
T AR1016 3	6.284	0.0	317105.085	108.5912	ng/ml		100
T AR1016 4	6.431	0.0	243468.264	109.6225	ng/ml		100
T AR1016 2 #2	6.448	0.0	752749.371	112.1446	ng/ml	m	100
T AR1016 5	6.909	0.0	194872.097	108.9344	ng/ml		100
T AR1016 3 #2	7.033	0.0	1331099.472	109.1394	ng/ml		100
T AR1016 4 #2	7.223	0.0	949564.555	109.0568	ng/ml		100
T AR1016 5 #2	7.964	0.0	771943.524	109.0702	ng/ml		100
T AR1260 1	8.878	0.0	390861.384	105.2331	ng/ml		100
T AR1260 2	9.338	0.0	614413.614	108.5313	ng/ml		100
T AR1260 3	9.751	0.0	626423.788	105.8658	ng/ml		100
T AR1260 1 #2	10.088	0.0	1506423.617	113.1421	ng/ml		100
T AR1260 4	10.218	0.0	373415.612	104.0416	ng/ml		100
T AR1260 2 #2	10.342	0.0	1768113.790	110.5237	ng/ml		100
T AR1260 5	10.579	0.0	836749.386	108.9242	ng/ml		100
T AR1260 3 #2	10.761	0.0	2204619.622	108.8731	ng/ml		100
T AR1260 4 #2	11.176	0.0	1447196.030	106.5619	ng/ml		100
T AR1260 5 #2	11.873	0.0	2132038.907	108.0368	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

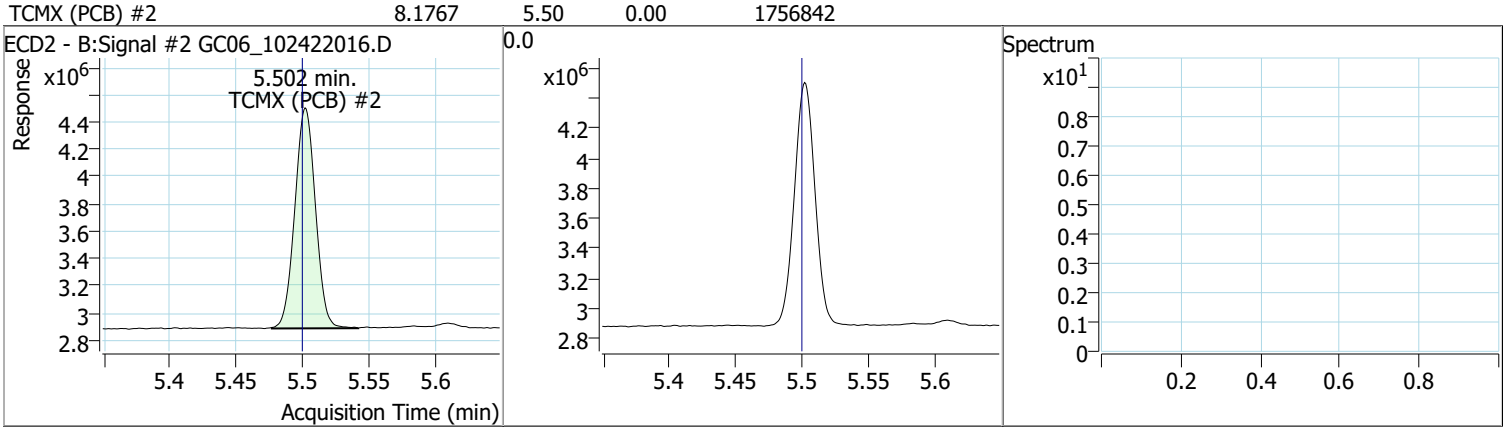
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	8.1781	5.10	0.00	431942				



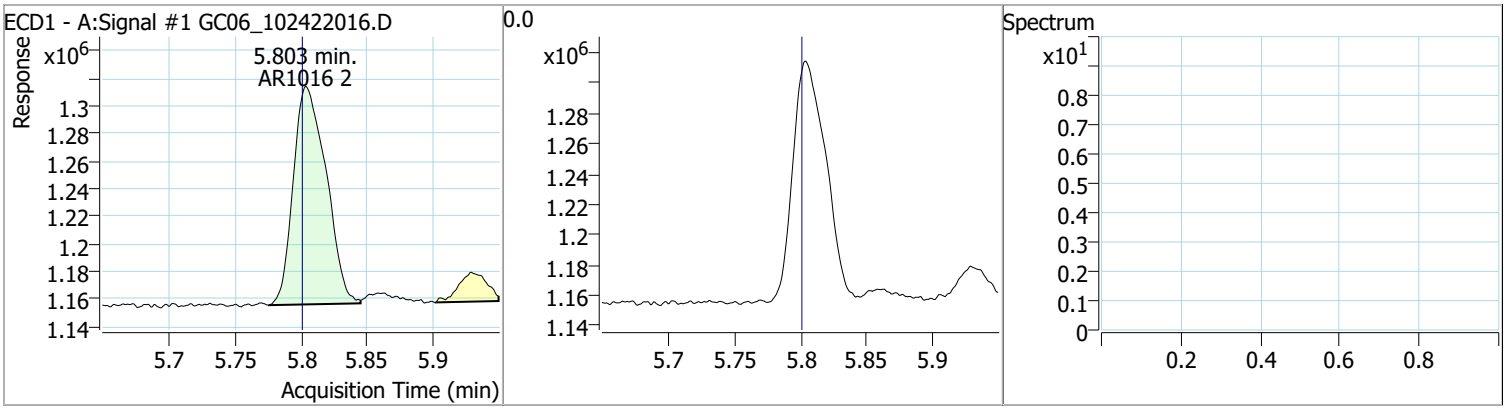
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	109.4237	5.46	0.00	126030				



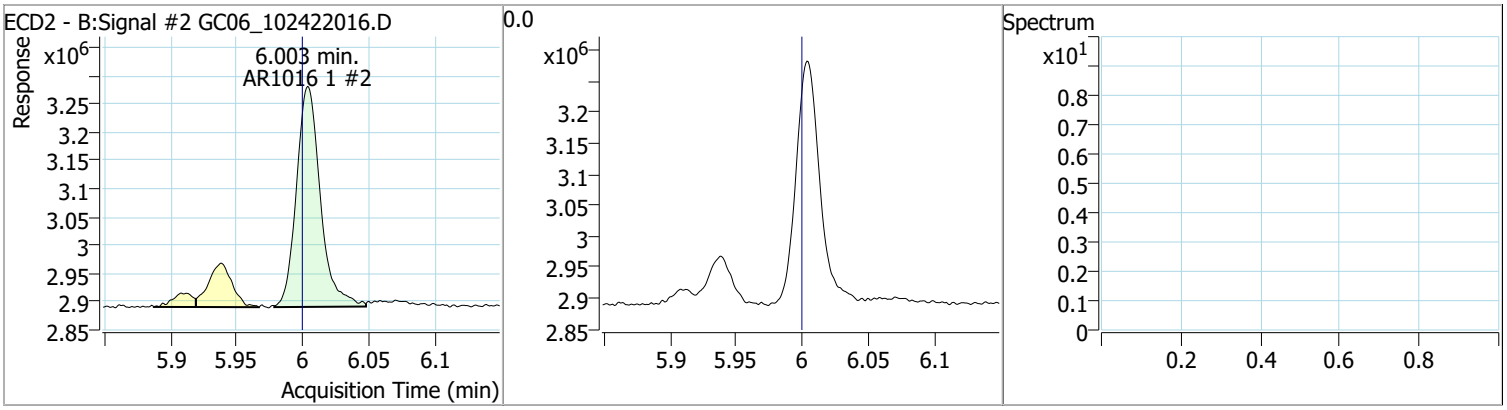
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	8.1767	5.50	0.00	1756842				



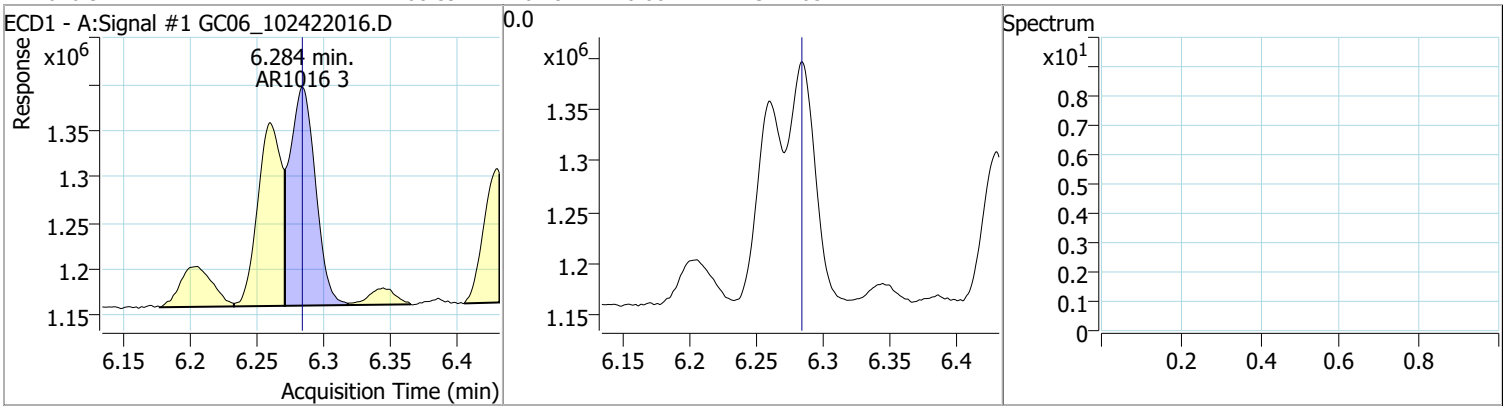
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	104.1655	5.80	0.00	273793				



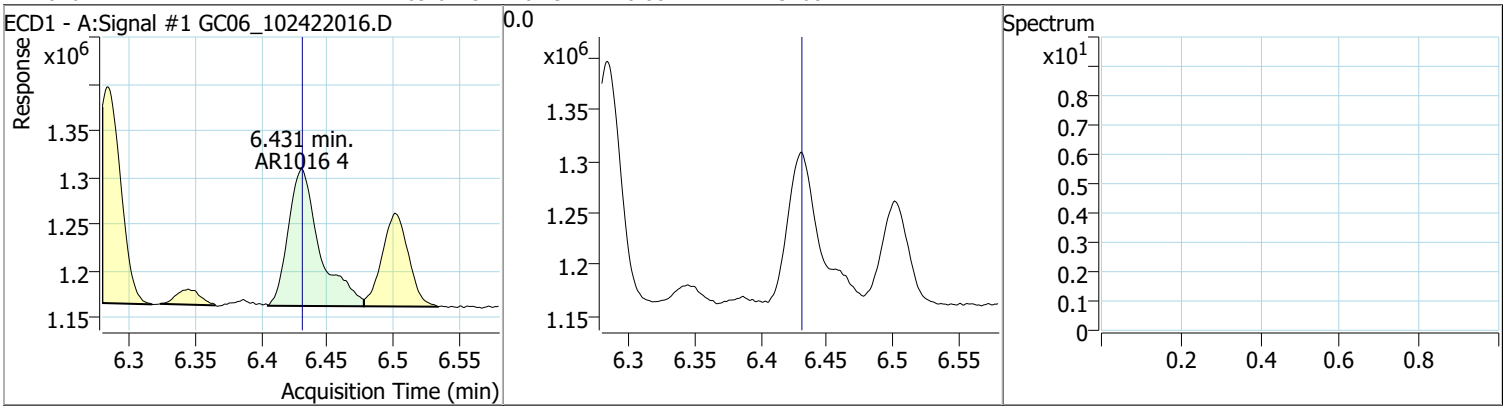
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	106.3335	6.00	0.00	494438				



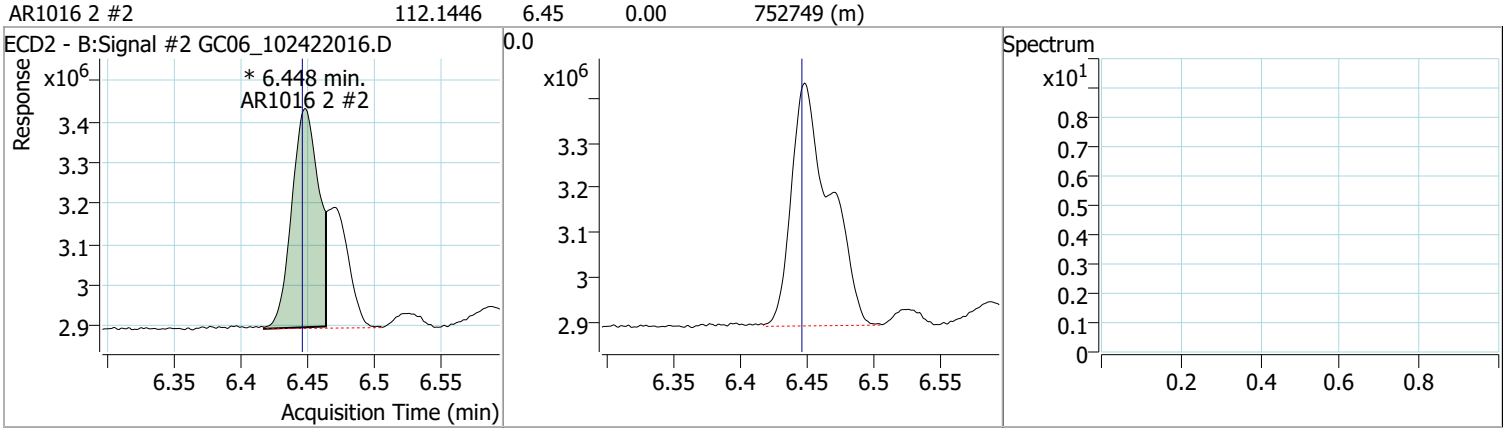
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	108.5912	6.28	0.00	317105				



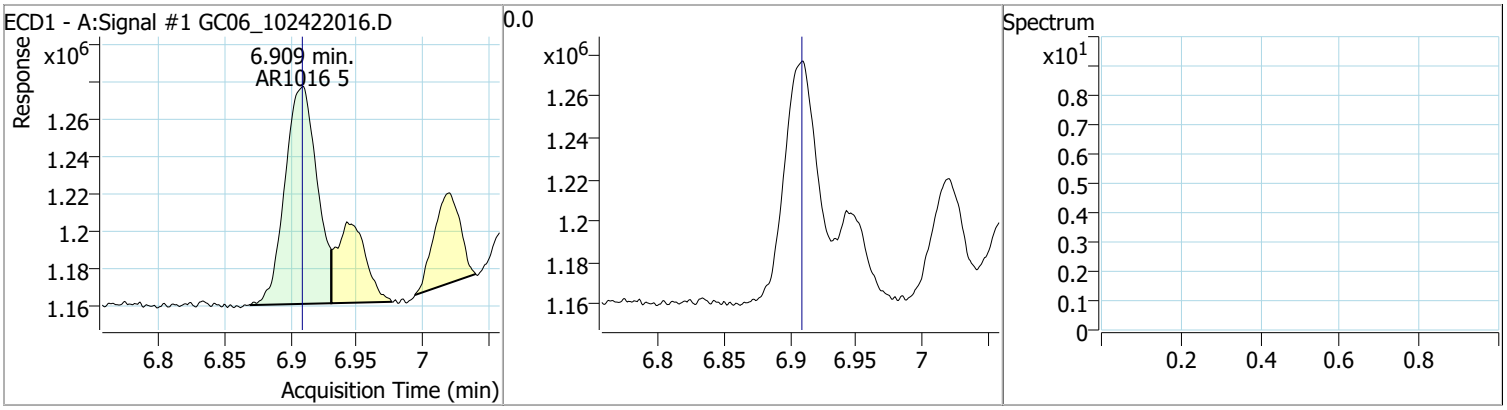
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	109.6225	6.43	0.00	243468				



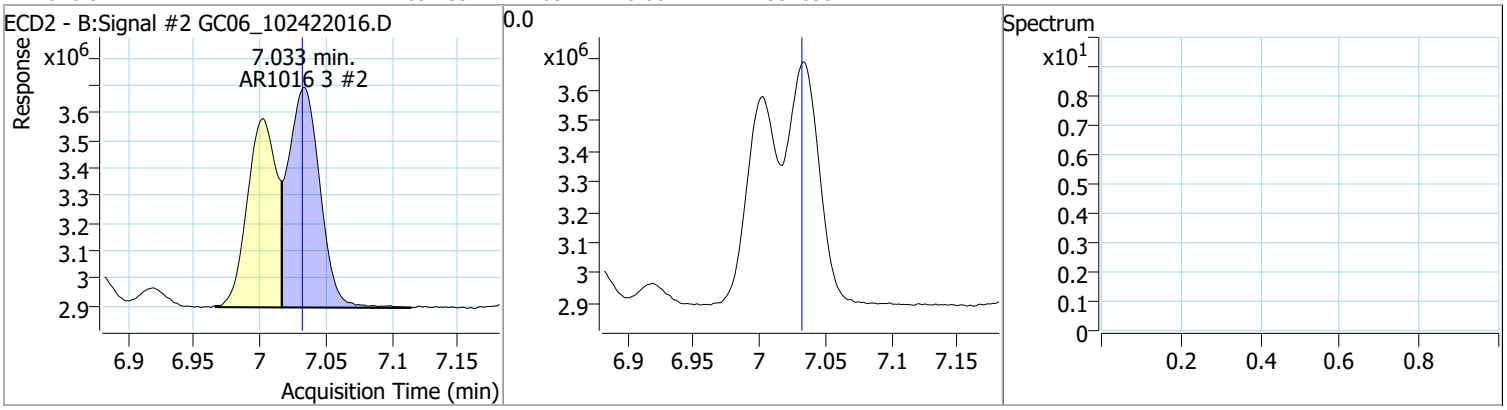
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	112.1446	6.45	0.00	752749 (m)				



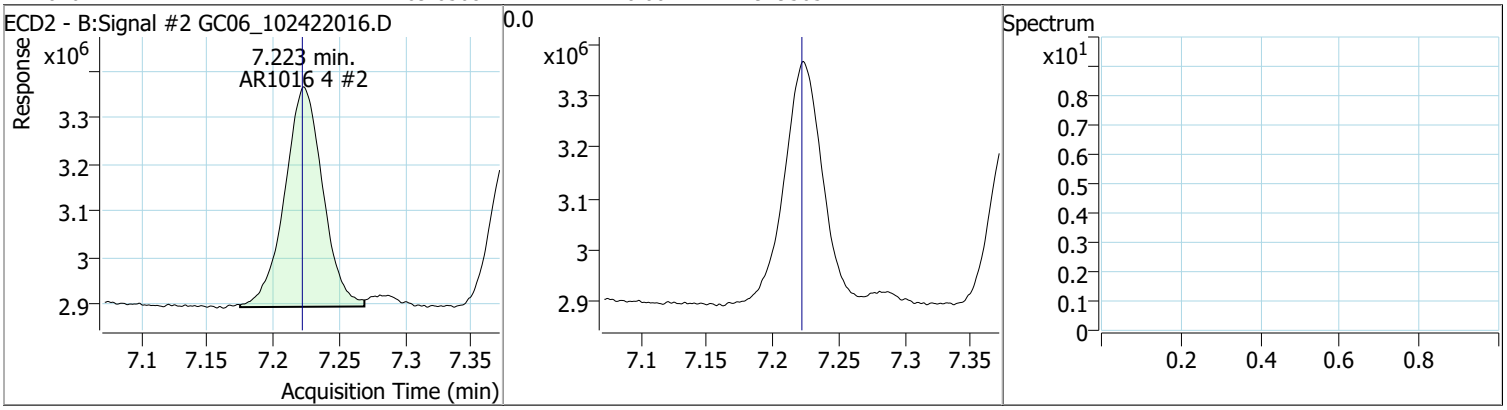
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	108.9344	6.91	0.00	194872				



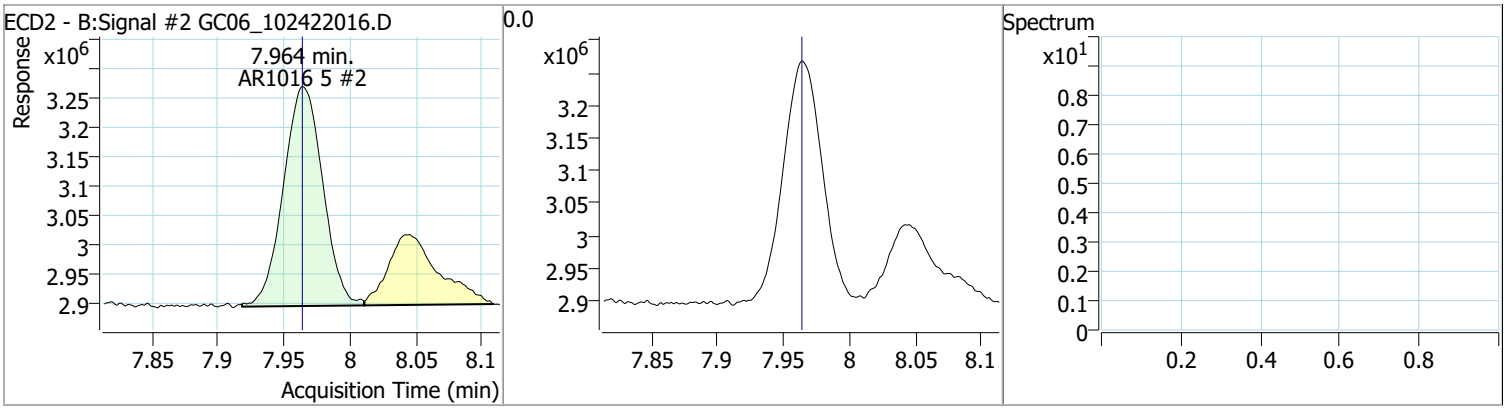
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	109.1394	7.03	0.00	1331099				



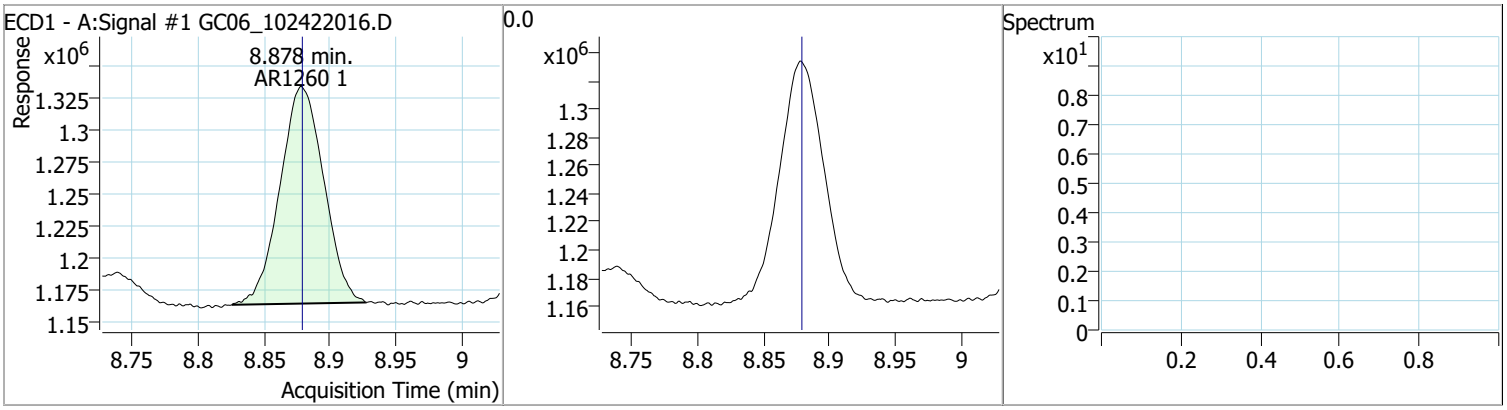
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	109.0568	7.22	0.00	949565				



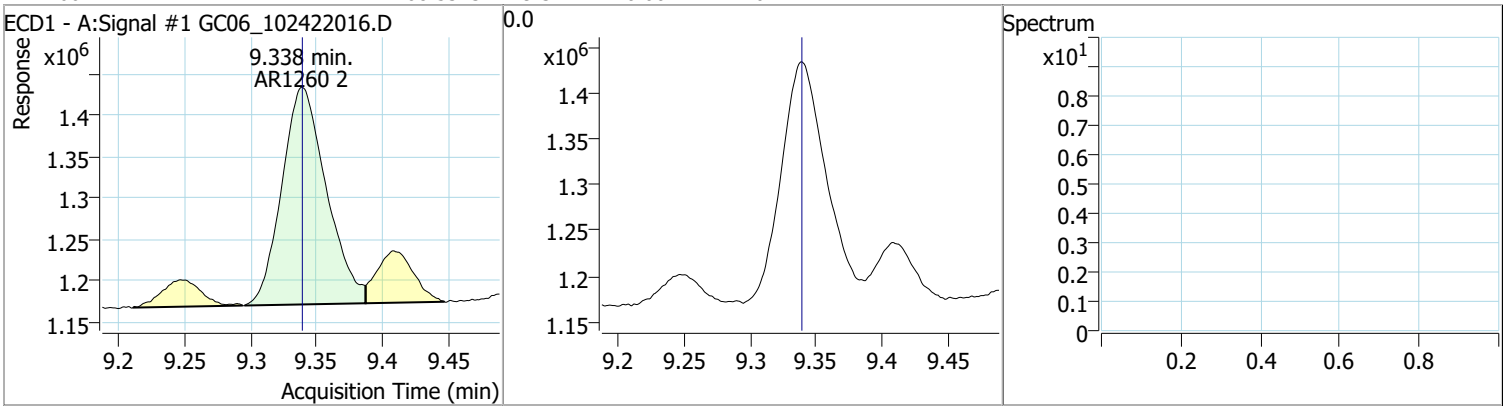
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AR1016 5 #2	109.0702	7.96	0.00	771944				



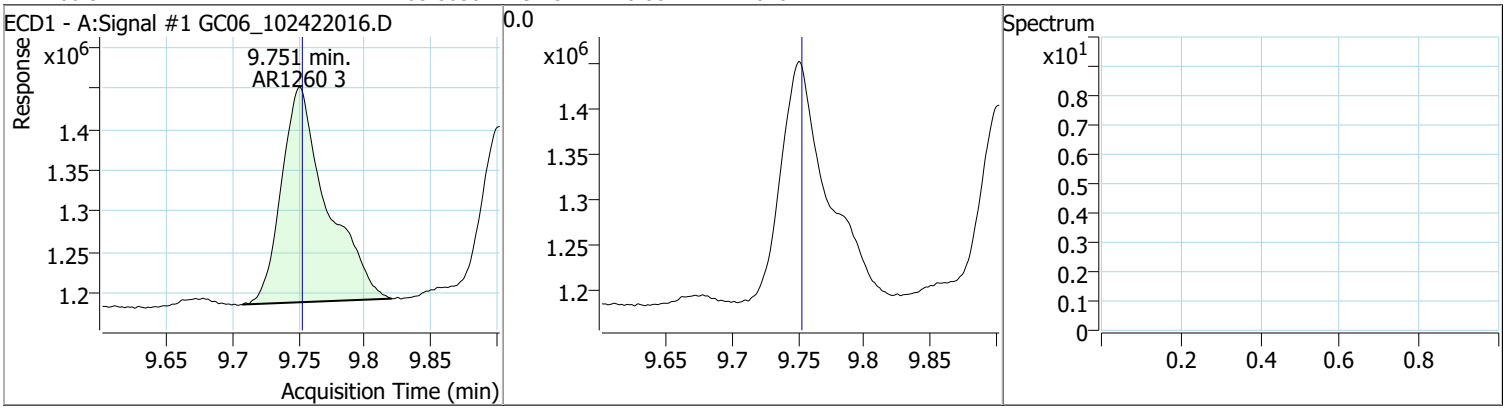
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	105.2331	8.88	0.00	390861				



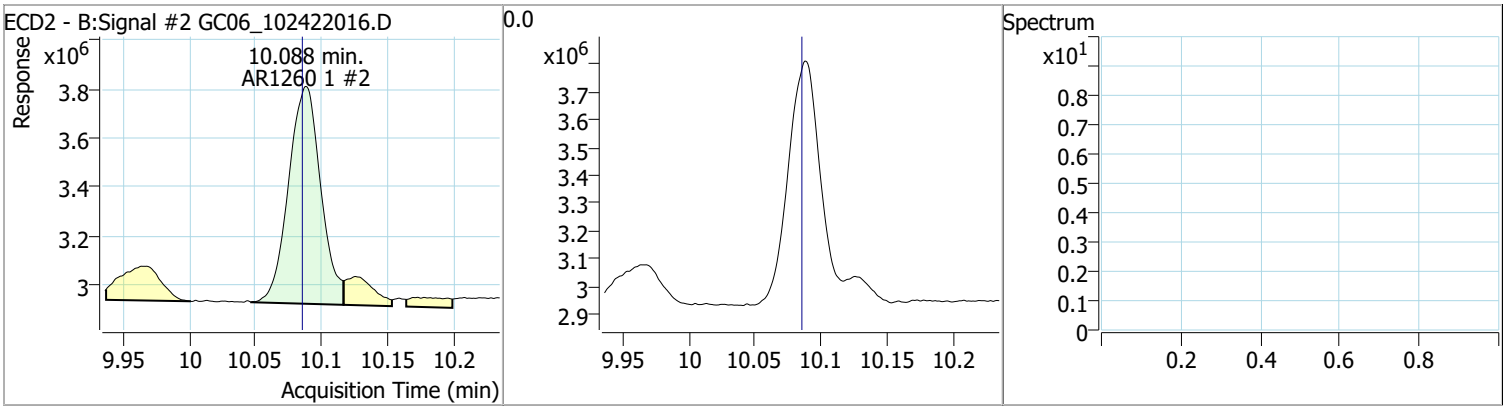
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	108.5313	9.34	0.00	614414				



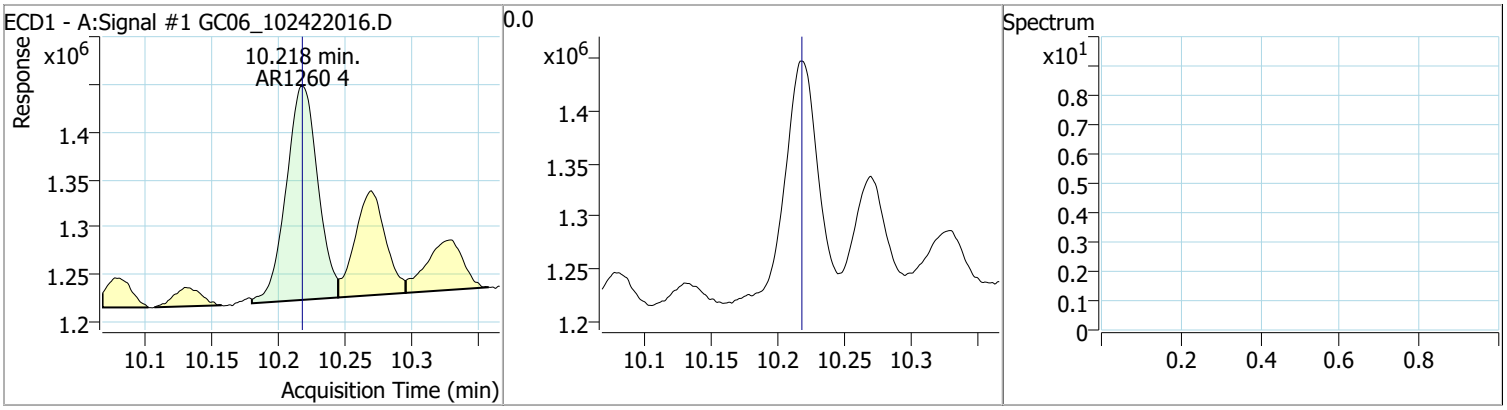
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	105.8658	9.75	0.00	626424				



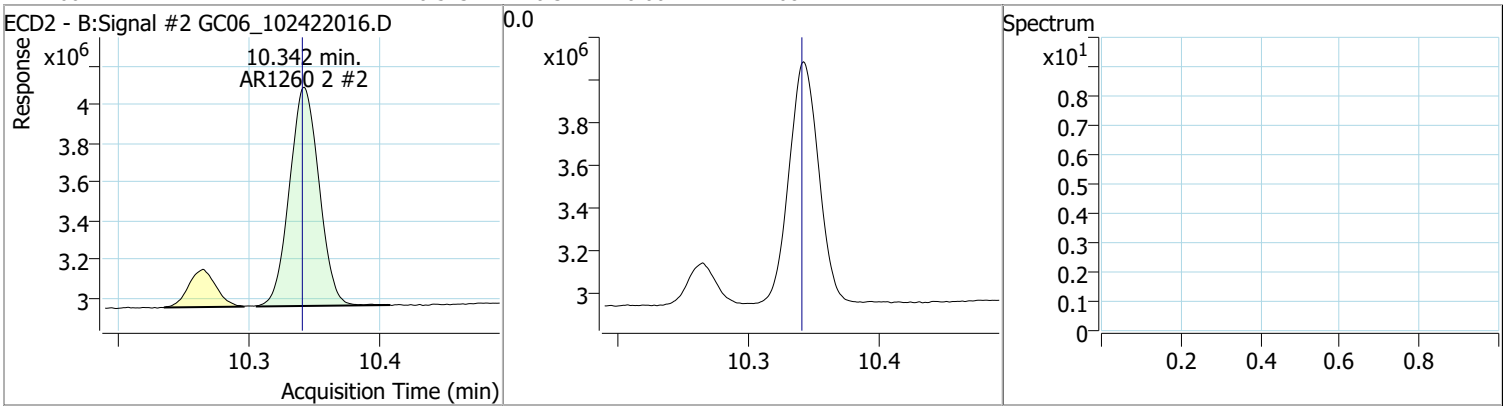
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	113.1421	10.09	0.00	1506424				



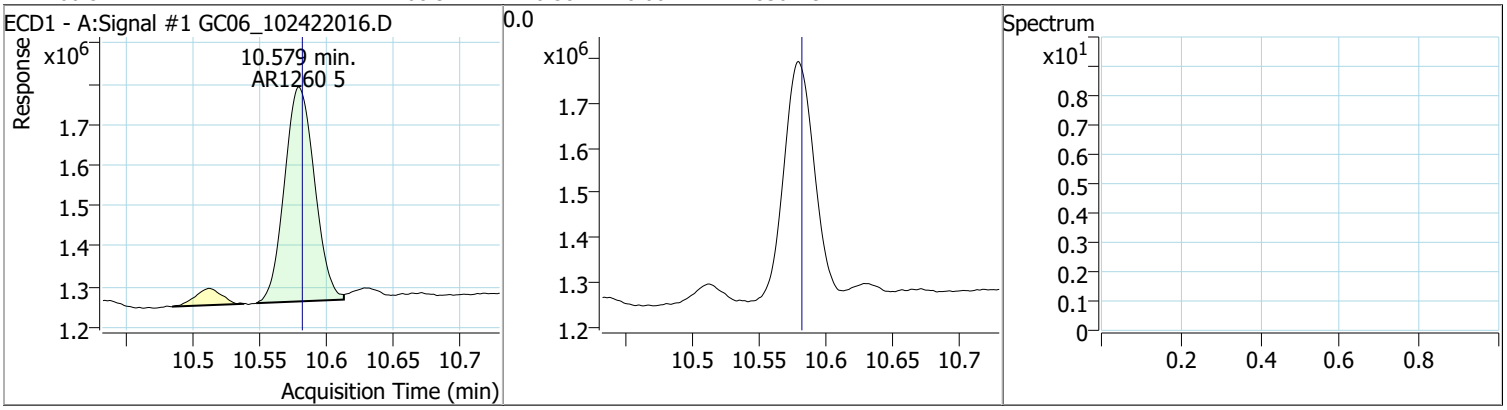
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AR1260 4	104.0416	10.22	0.00	373416				



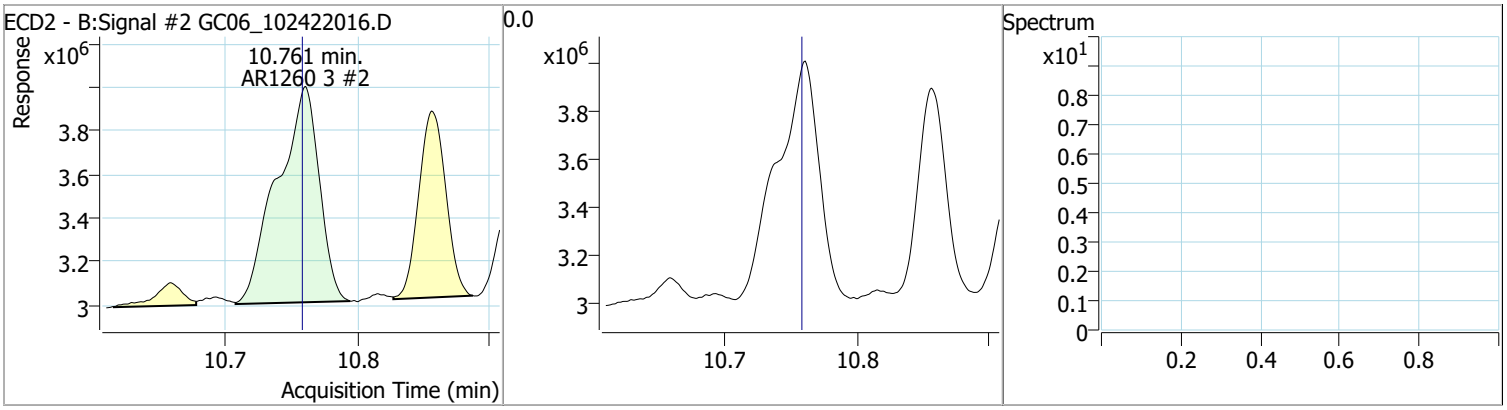
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AR1260 2 #2	110.5237	10.34	0.00	1768114				



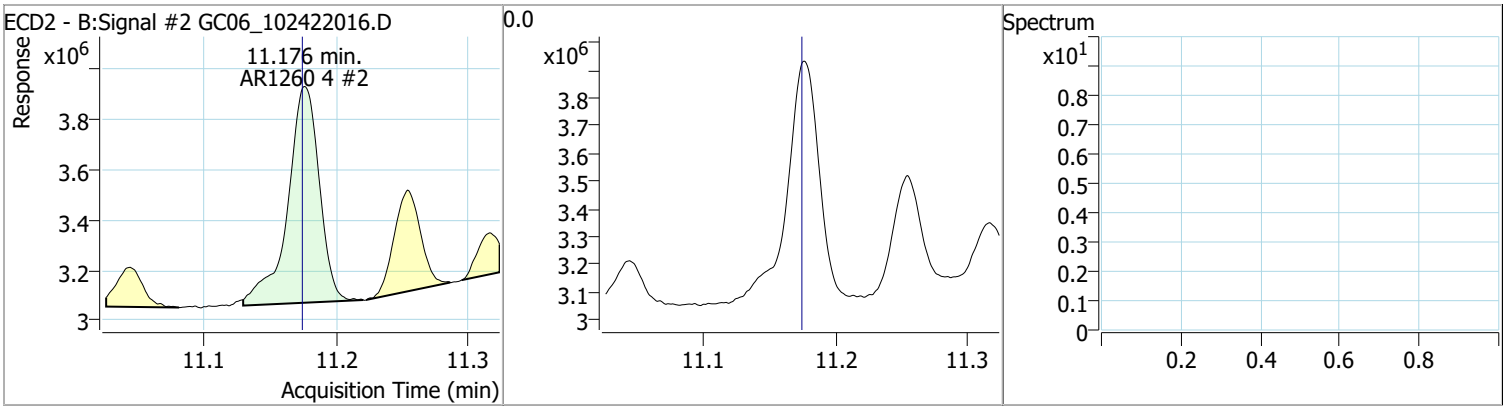
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	108.9242	10.58	0.00	836749				



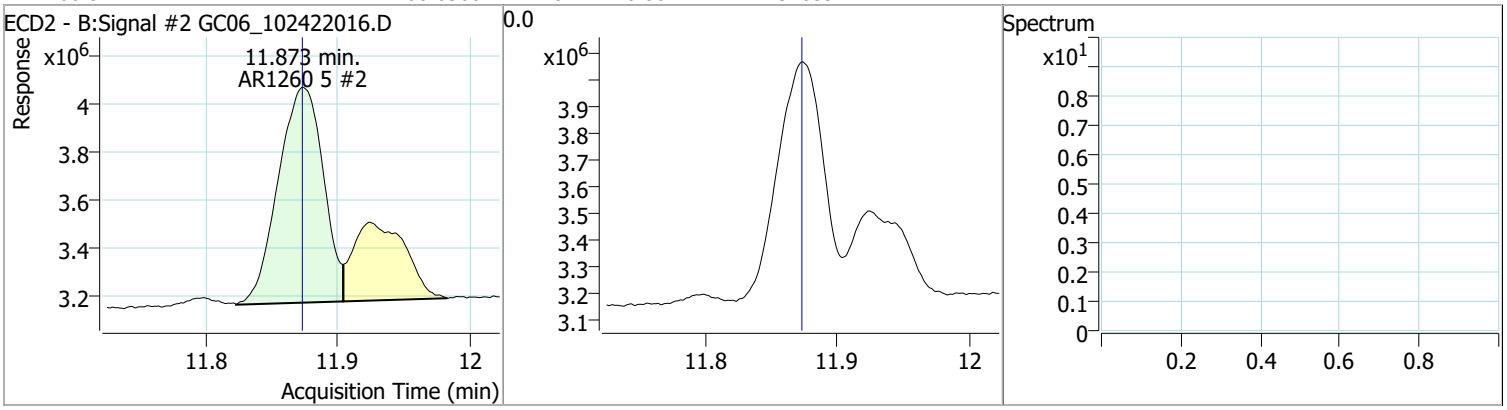
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	108.8731	10.76	0.00	2204620				



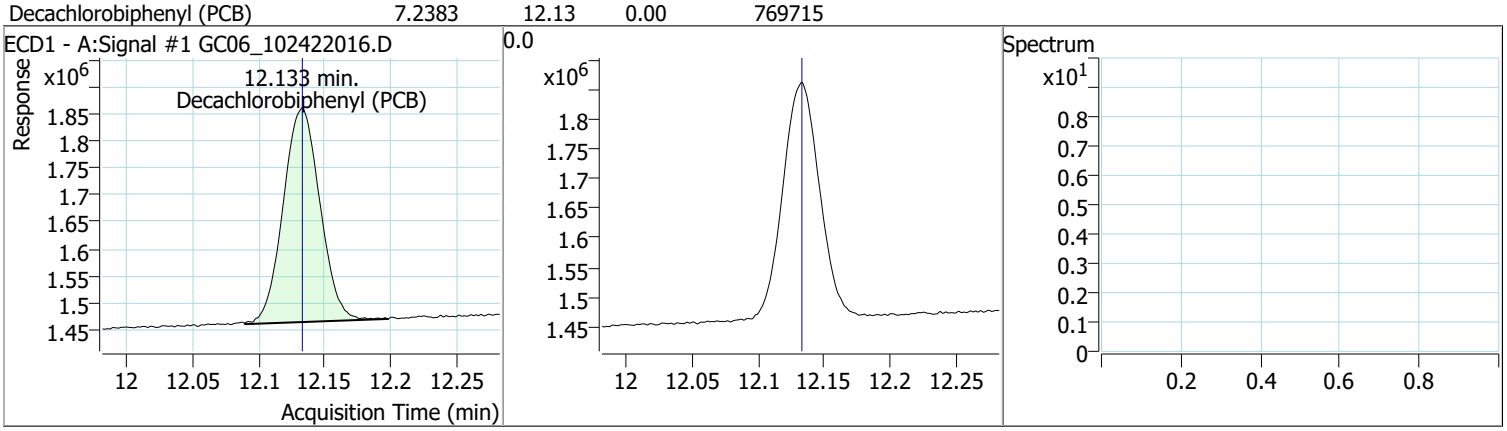
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	106.5619	11.18	0.00	1447196				



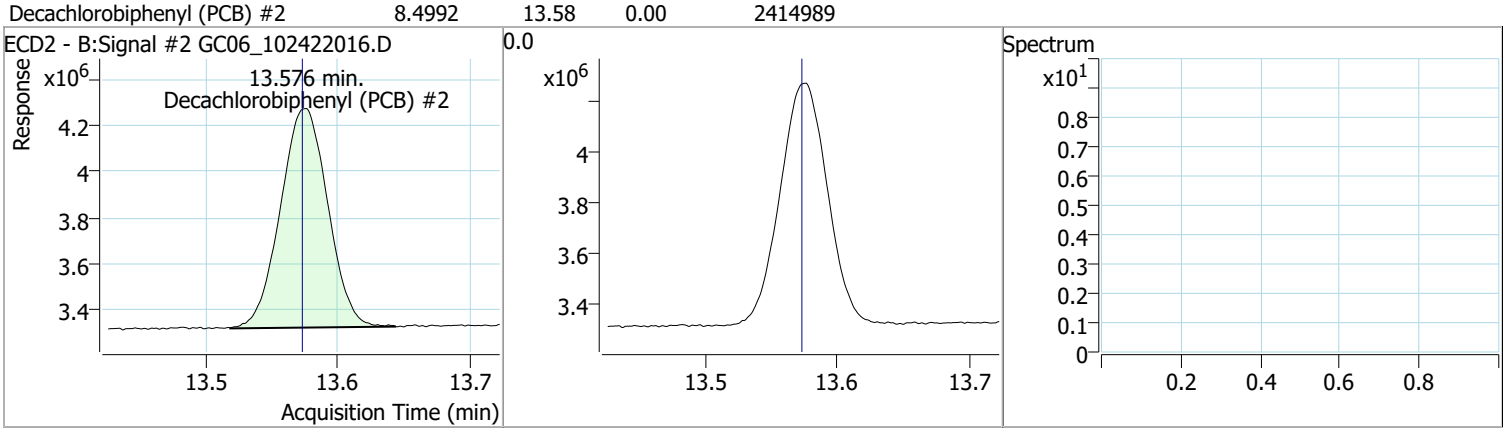
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	108.0368	11.87	0.00	2132039				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	7.2383	12.13	0.00	769715				

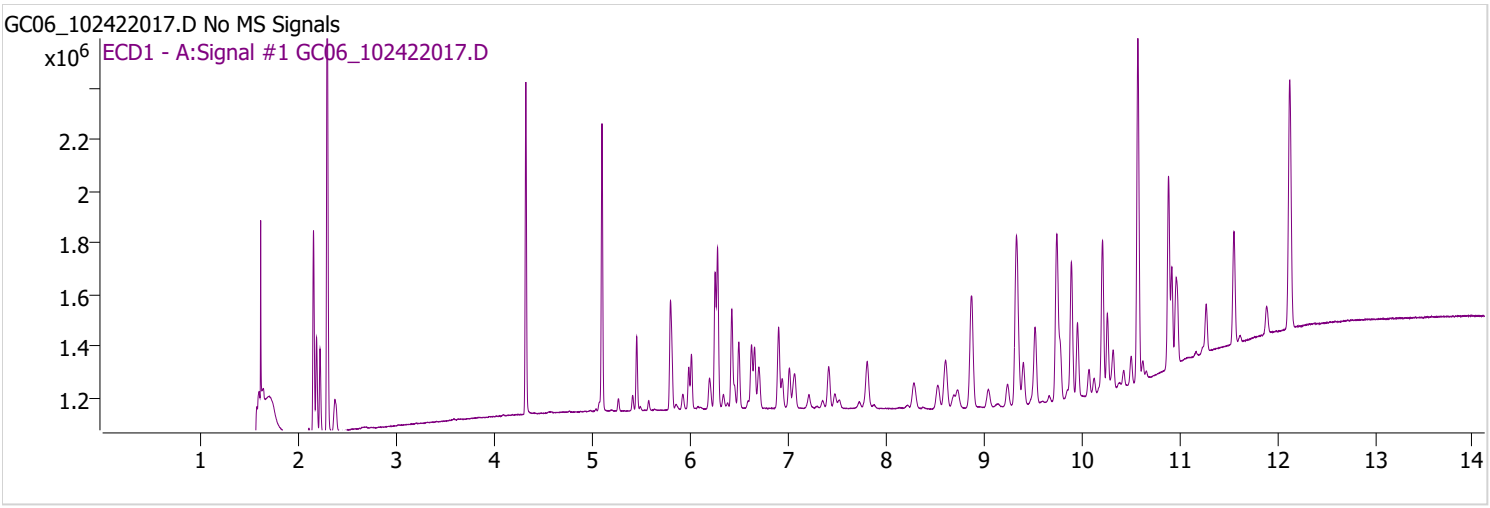


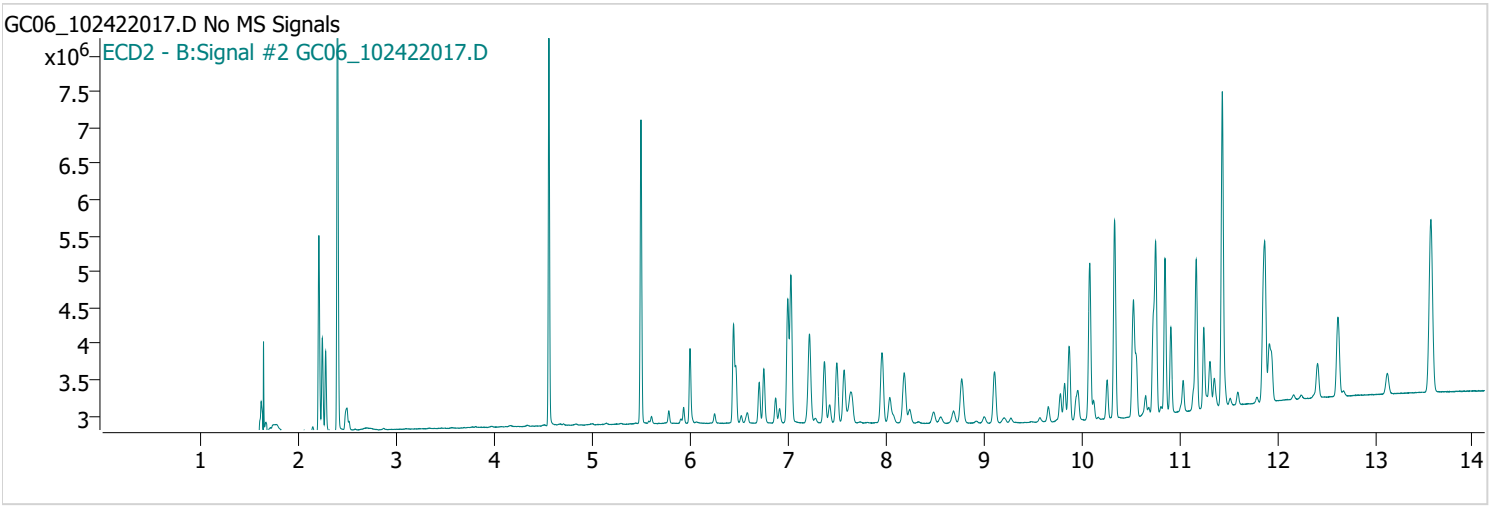
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	8.4992	13.58	0.00	2414989				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422017.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 6:20:02 PM
Sample Name	ICAL, S17266	Instrument	SVOA-GC06
Vial	14	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



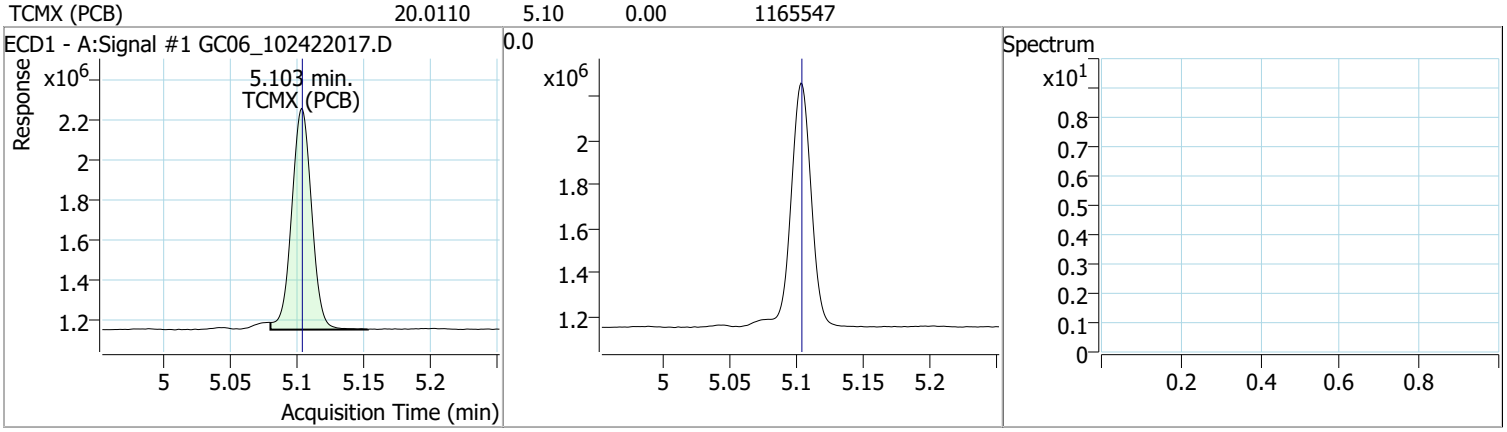


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1211472.444	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.561	0.0	4920571.818	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	1165547.443	20.0110	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 100.05%			
S TCMX (PCB) #2	5.502	0.0	4758798.041	20.1381	ng/ml	m	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 100.69%			
S Decachlorobiphenyl (PCB)	12.131	0.0	1850638.921	20.8820	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 104.41%			
S Decachlorobiphenyl (PCB) #2	13.573	0.0	5988530.393	21.8142	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 109.07%			
Target Compounds							QValue

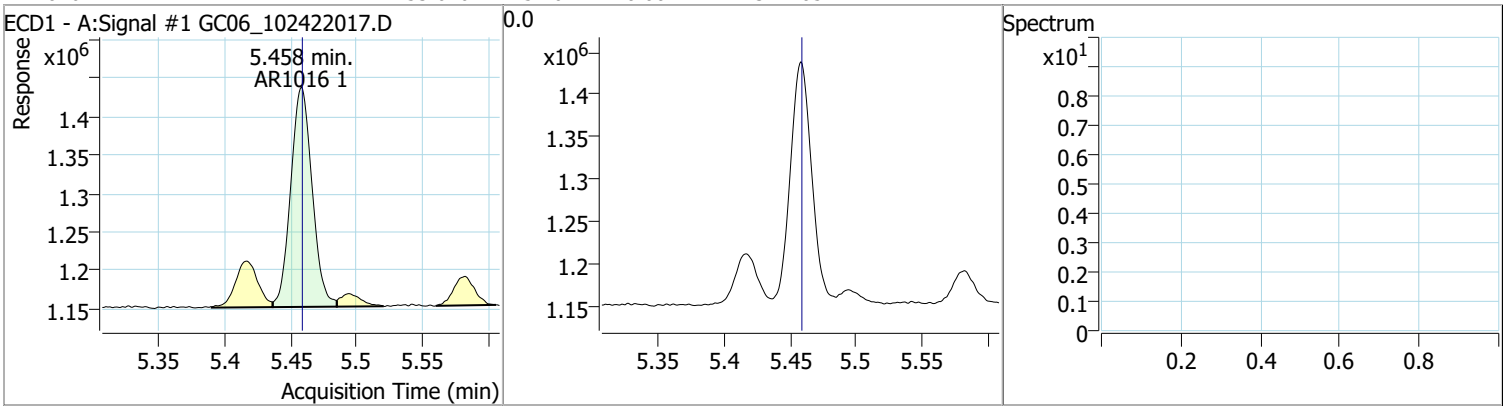
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.458	0.0	322205.369	253.6767	ng/ml		100
T AR1016 2	5.803	0.0	712693.363	266.8112	ng/ml		100
T AR1016 1 #2	6.003	0.0	1331882.363	260.4356	ng/ml		100
T AR1016 3	6.284	0.0	837940.134	260.2036	ng/ml		100
T AR1016 4	6.430	0.0	635327.920	259.3965	ng/ml		100
T AR1016 2 #2	6.448	0.0	1963799.619	266.0119	ng/ml	m	100
T AR1016 5	6.908	0.0	507361.692	257.1827	ng/ml		100
T AR1016 3 #2	7.033	0.0	3371390.470	251.3369	ng/ml	m	100
T AR1016 4 #2	7.223	0.0	2521917.084	263.3511	ng/ml		100
T AR1016 5 #2	7.963	0.0	2051369.275	263.5364	ng/ml		100
T AR1260 1	8.879	0.0	1022403.707	249.6095	ng/ml		100
T AR1260 2	9.338	0.0	1586842.083	254.1774	ng/ml		100
T AR1260 3	9.751	0.0	1640631.734	251.4243	ng/ml		100
T AR1260 1 #2	10.088	0.0	3737278.960	255.2165	ng/ml		100
T AR1260 4	10.218	0.0	994487.770	273.1079	ng/ml		100
T AR1260 2 #2	10.341	0.0	4465148.473	253.7799	ng/ml		100
T AR1260 5	10.578	0.0	2108588.370	272.1624	ng/ml		100
T AR1260 3 #2	10.760	0.0	5581397.012	250.6144	ng/ml		100
T AR1260 4 #2	11.175	0.0	3582855.500	269.4632	ng/ml	m	100
T AR1260 5 #2	11.874	0.0	5338056.869	269.7608	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

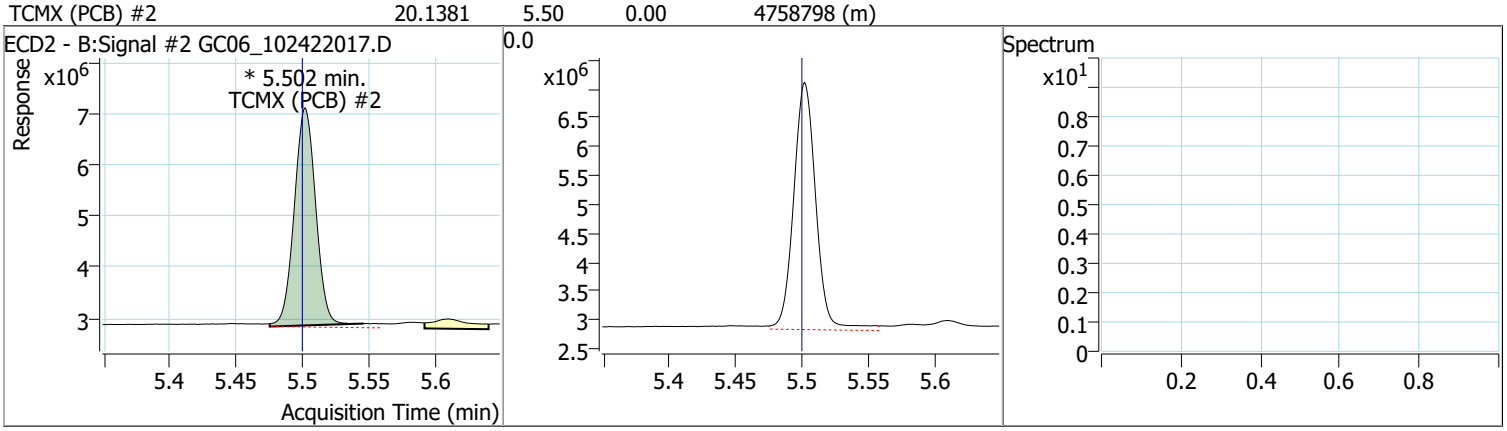
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	20.0110	5.10	0.00	1165547				



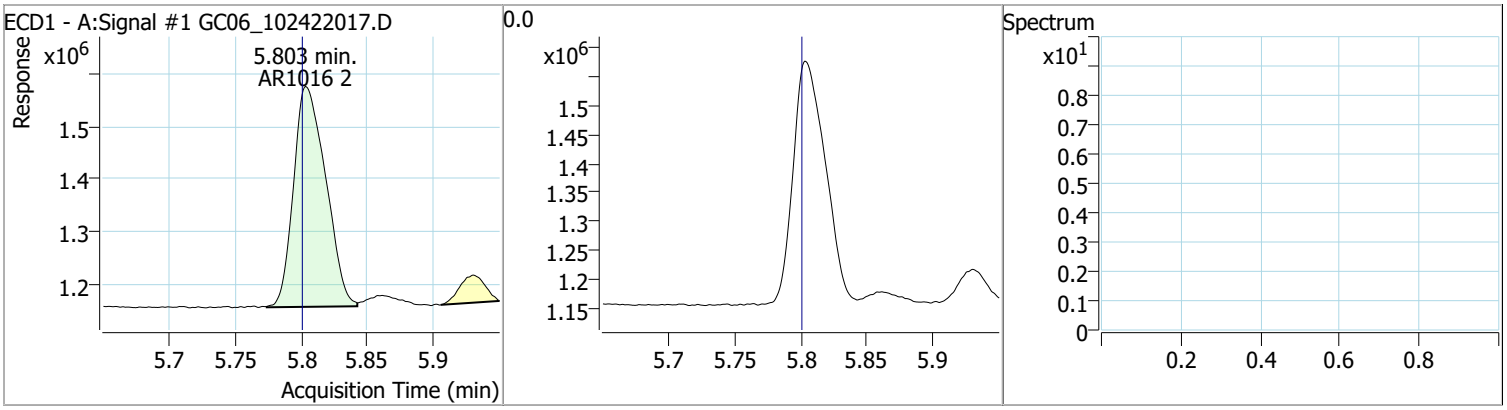
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	253.6767	5.46	0.00	322205				



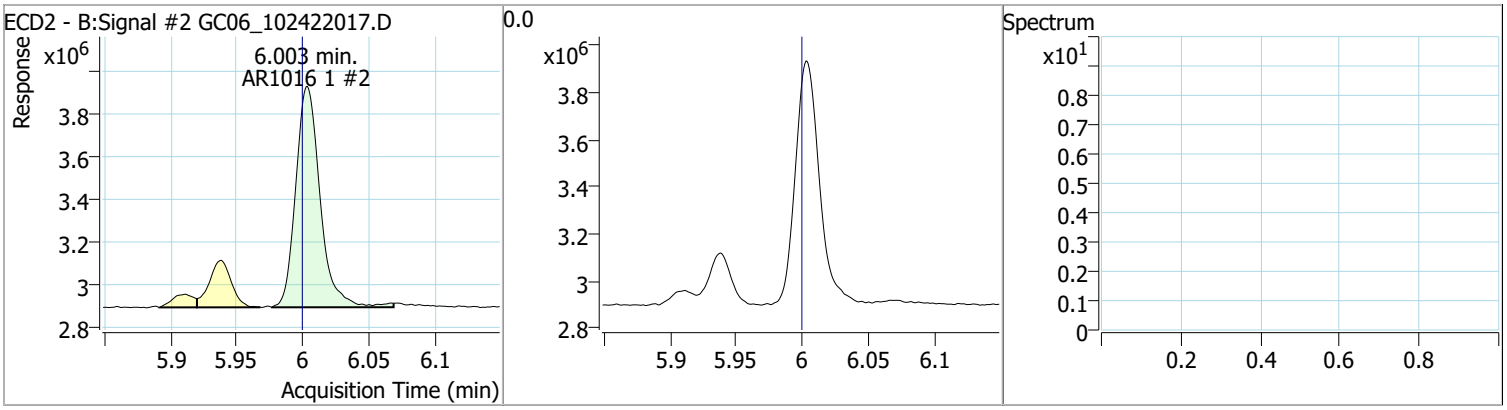
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	20.1381	5.50	0.00	4758798 (m)				



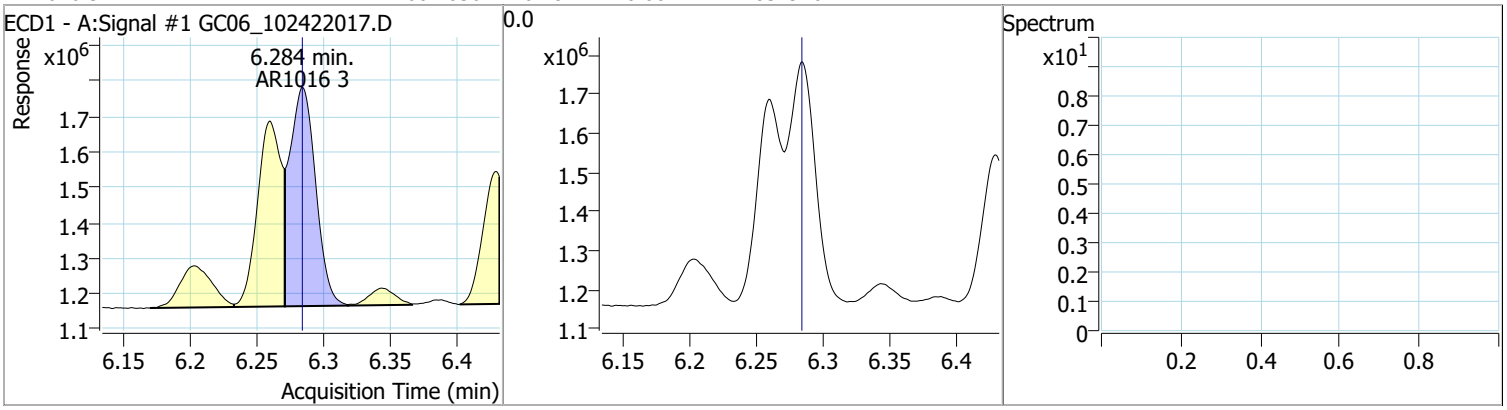
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	266.8112	5.80	0.00	712693				



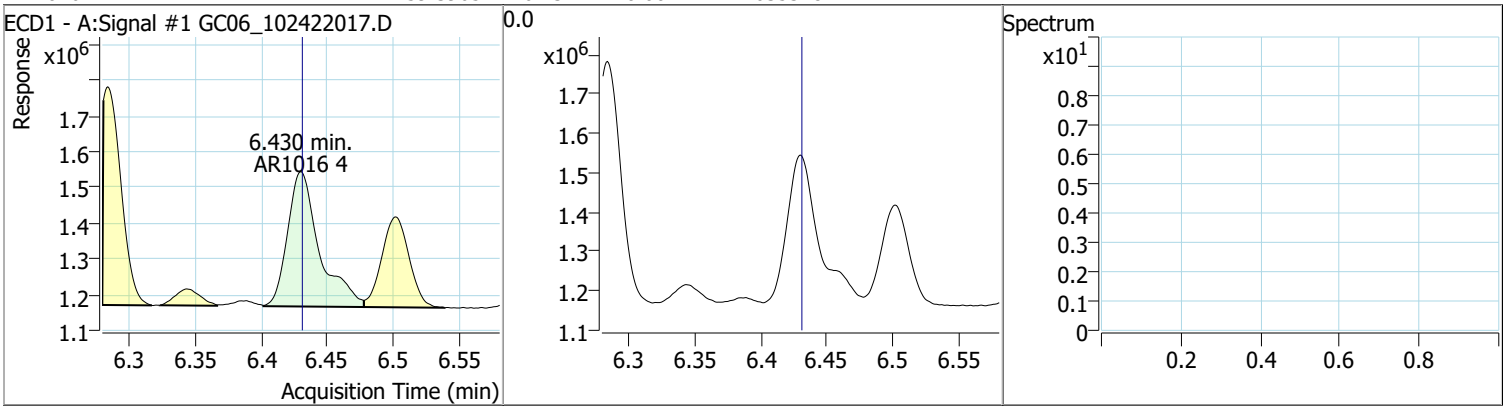
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	260.4356	6.00	0.00	1331882				



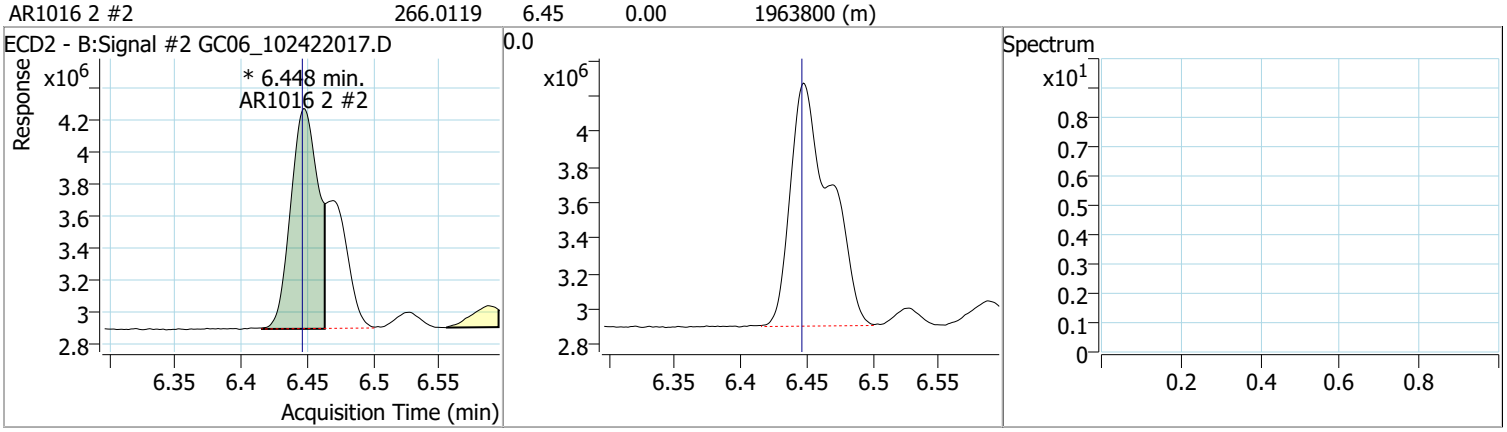
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	260.2036	6.28	0.00	837940				



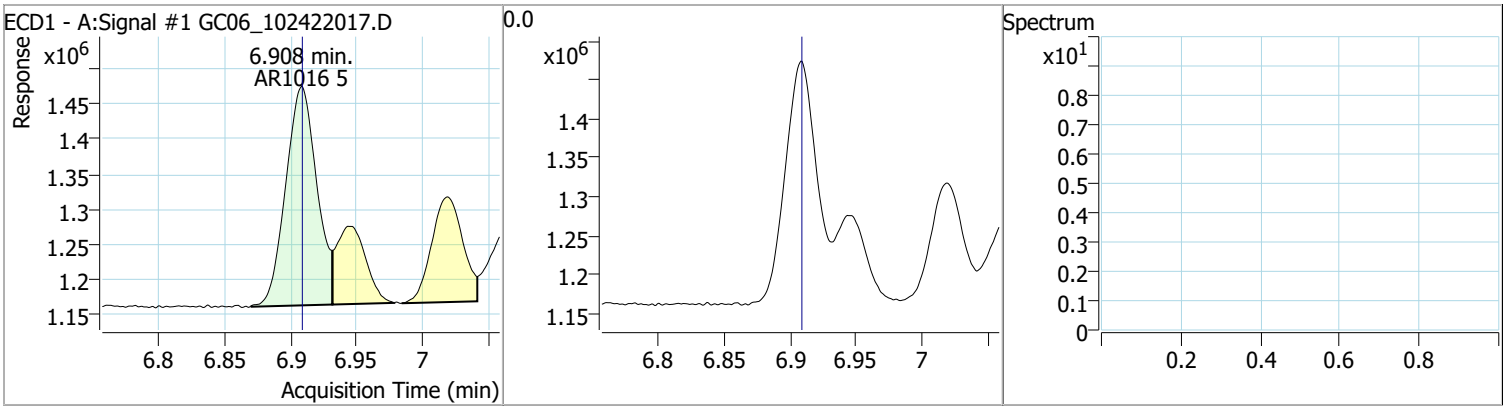
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AR1016 4	259.3965	6.43	0.00	635328				



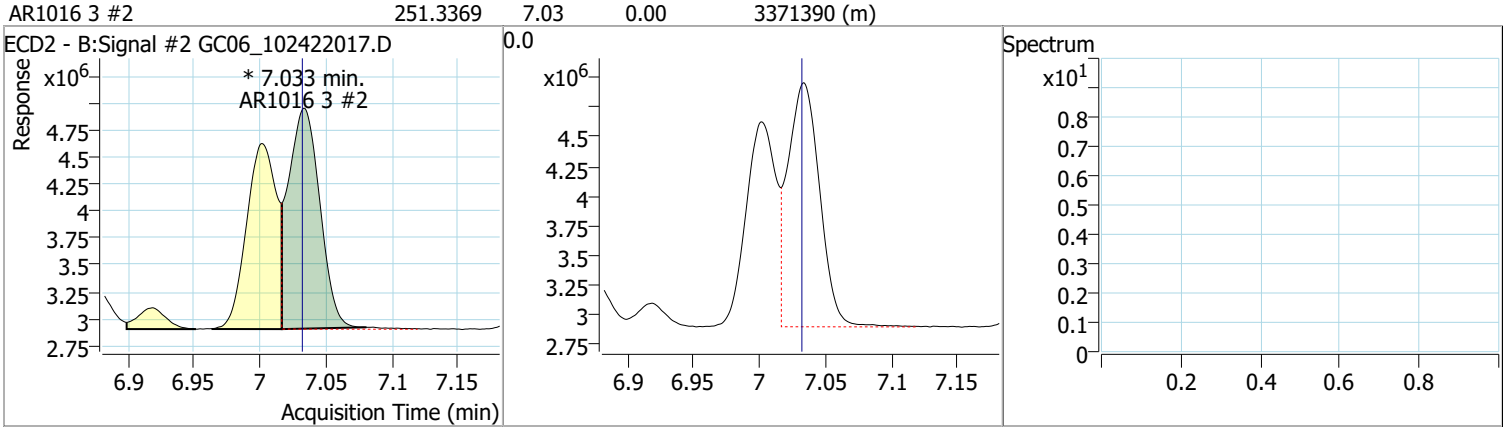
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	266.0119	6.45	0.00	1963800 (m)				



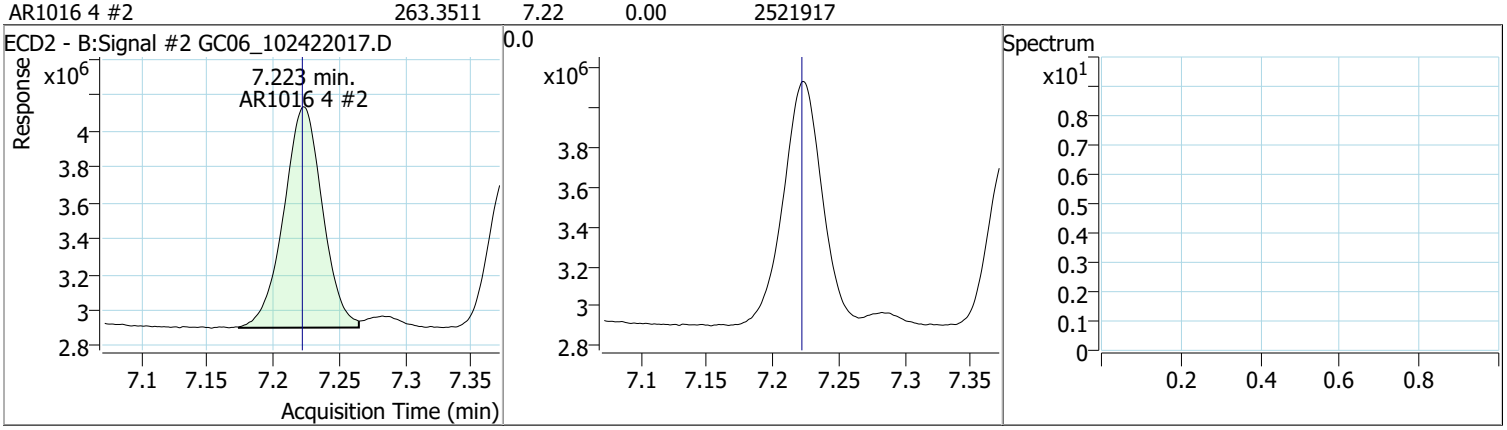
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	257.1827	6.91	0.00	507362				



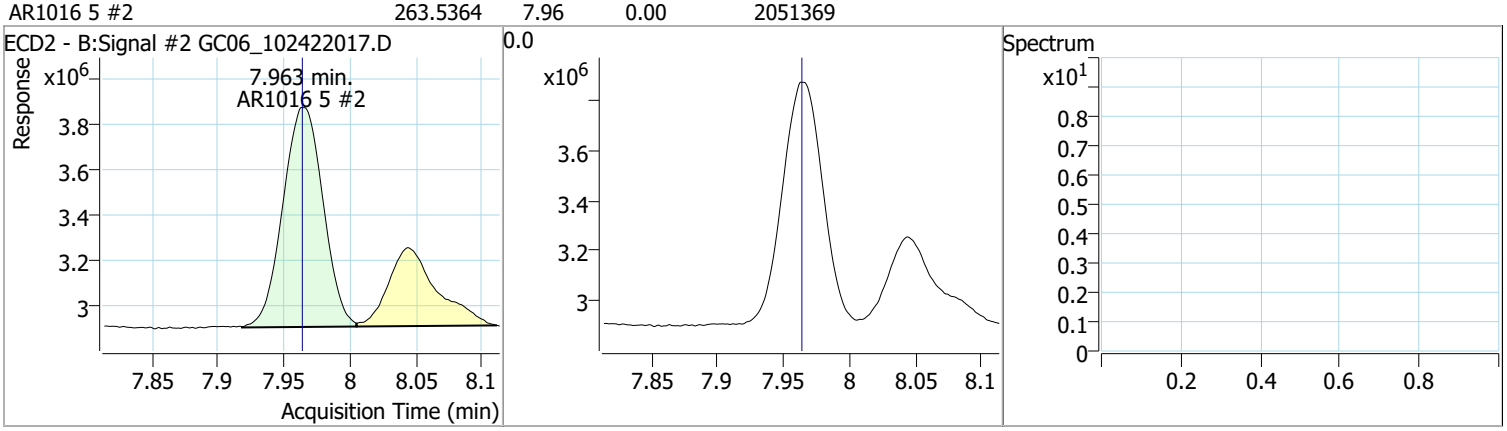
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	251.3369	7.03	0.00	3371390 (m)				



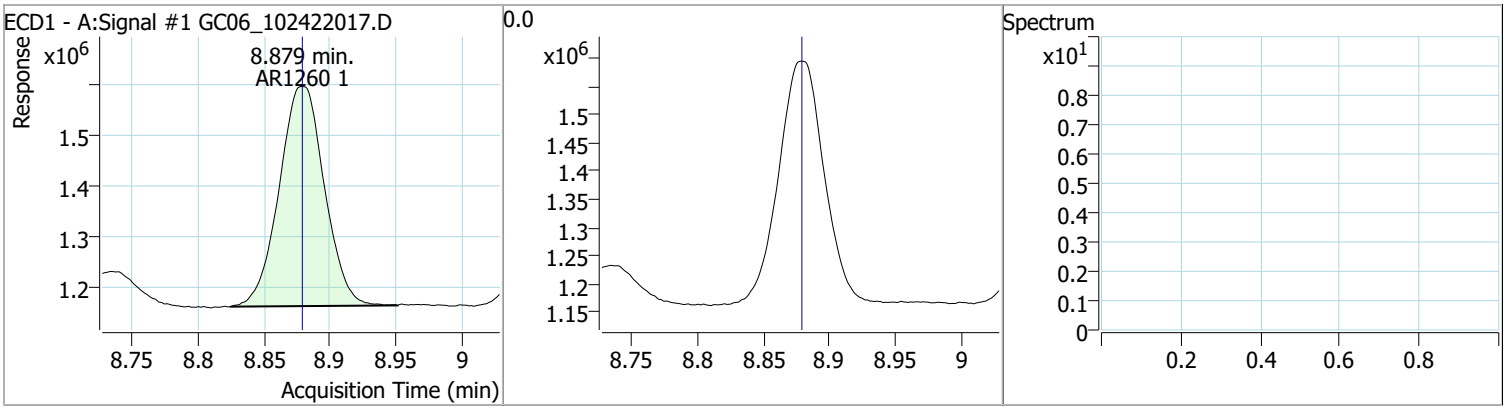
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AR1016 4 #2	263.3511	7.22	0.00	2521917				



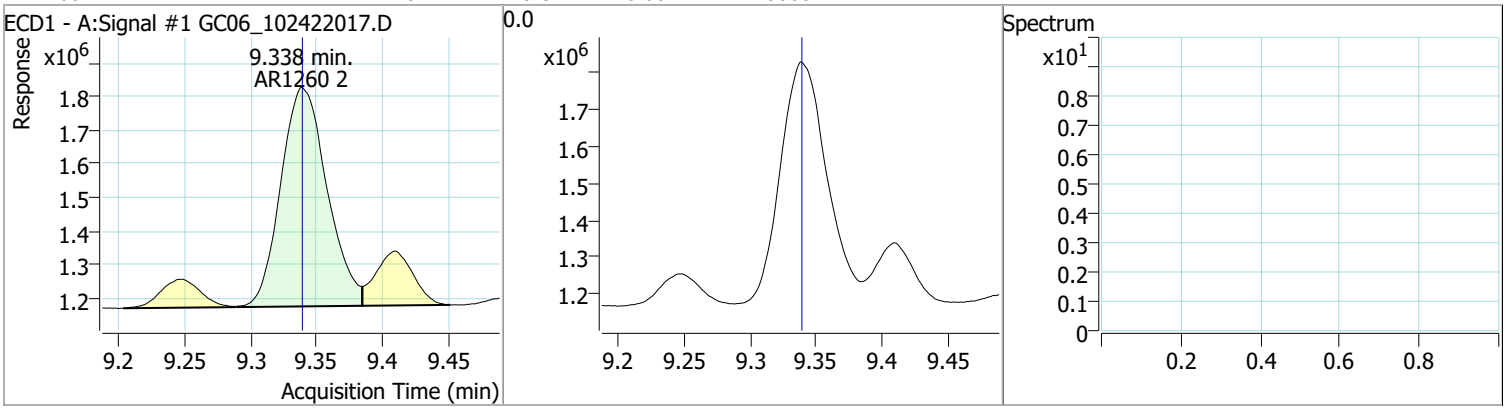
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AR1016 5 #2	263.5364	7.96	0.00	2051369				



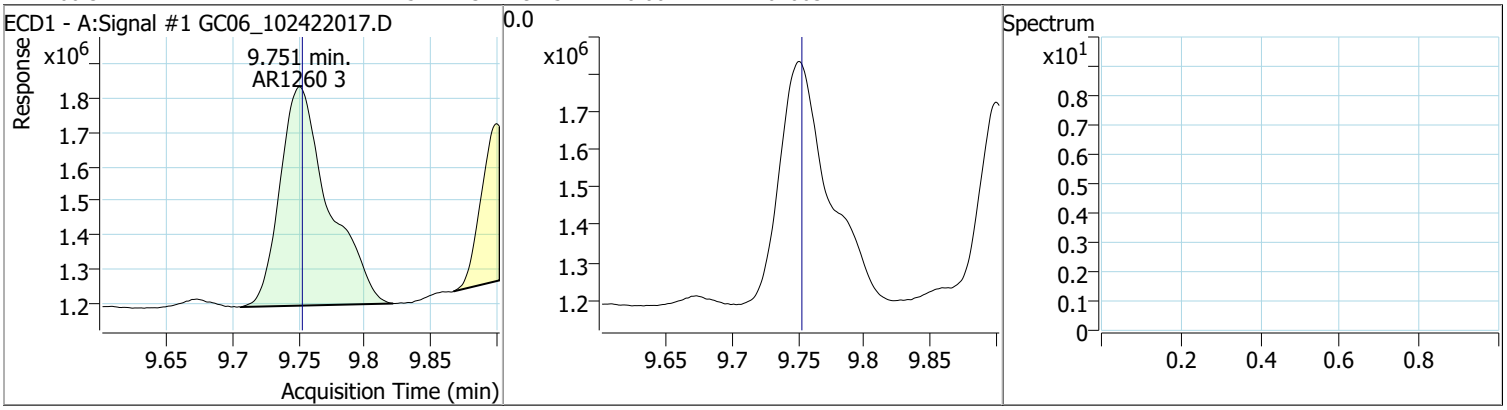
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	249.6095	8.88	0.00	1022404				



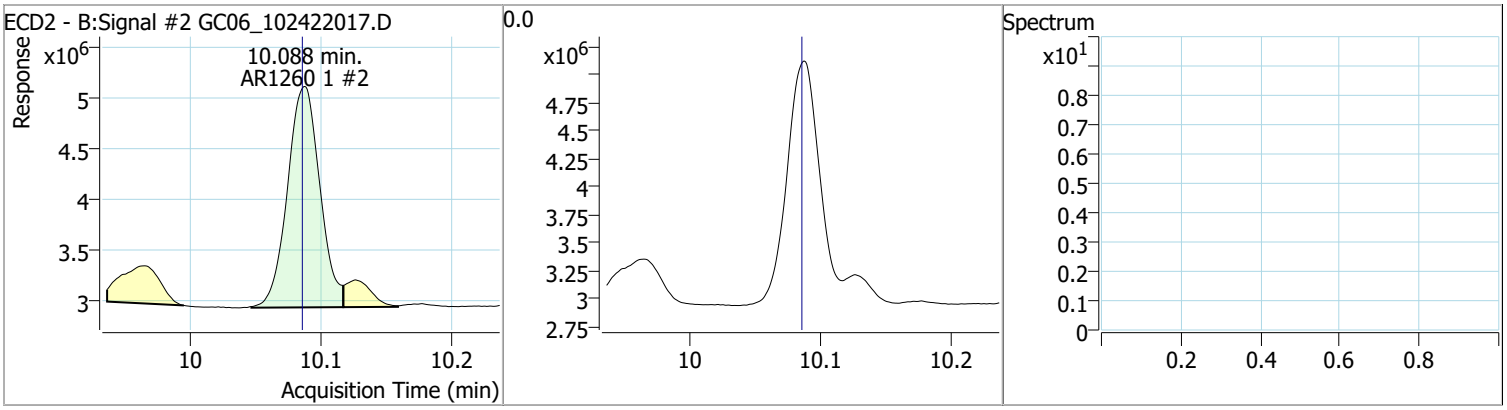
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	254.1774	9.34	0.00	1586842				



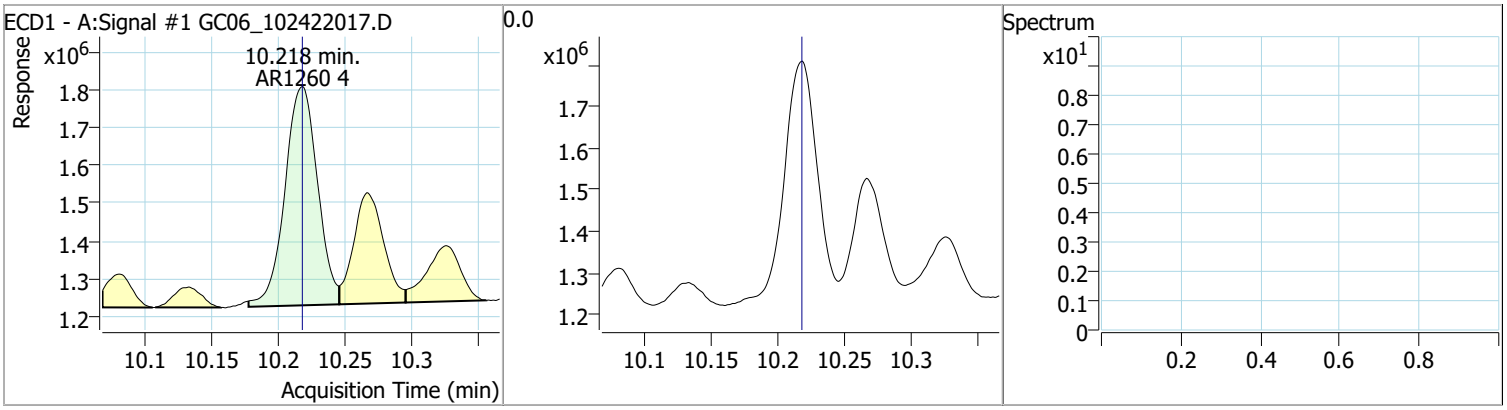
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AR1260 3	251.4243	9.75	0.00	1640632				



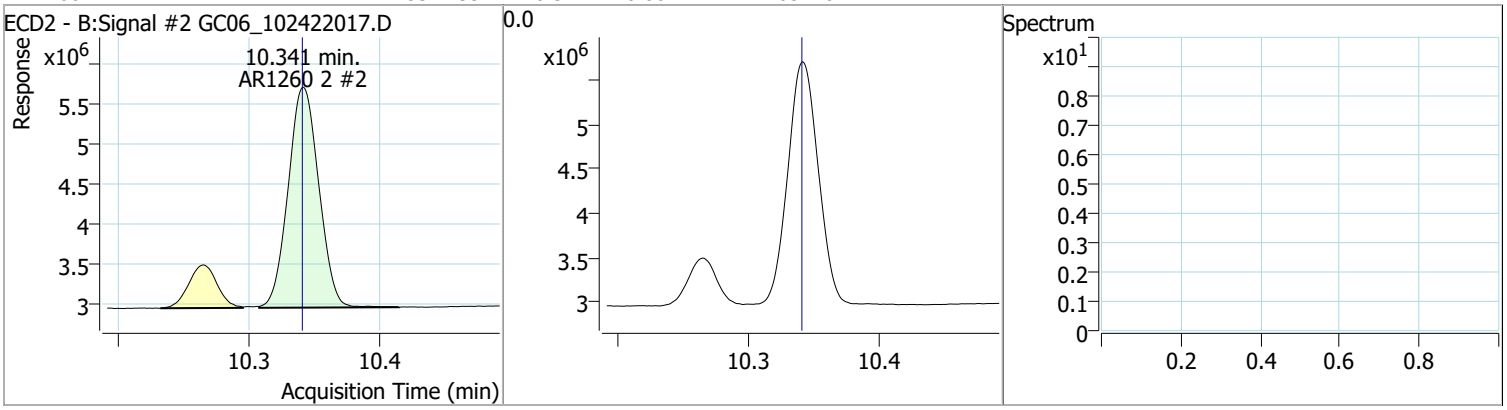
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AR1260 1 #2	255.2165	10.09	0.00	3737279				



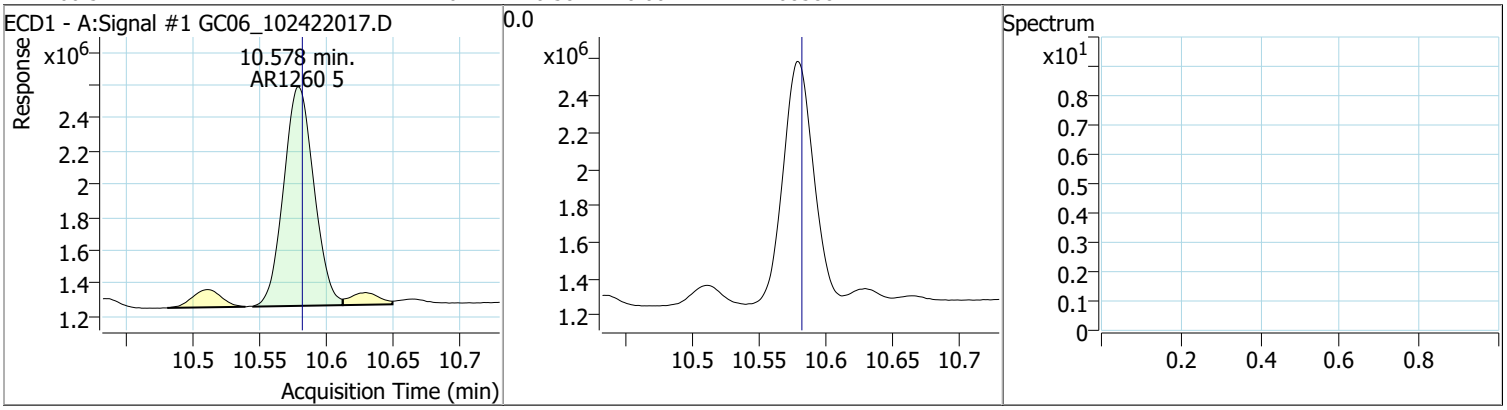
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	273.1079	10.22	0.00	994488				



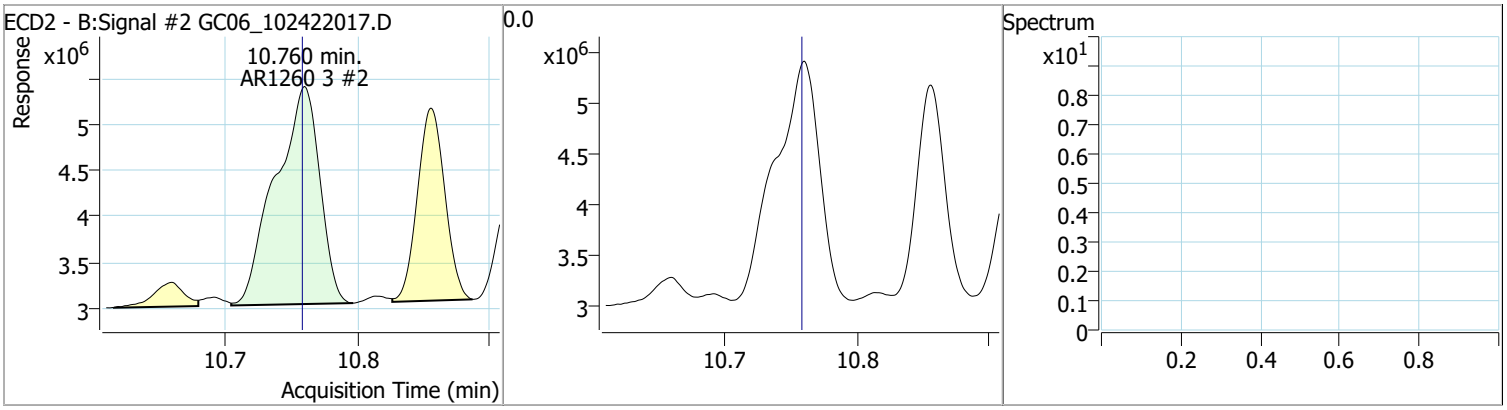
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	253.7799	10.34	0.00	4465148				



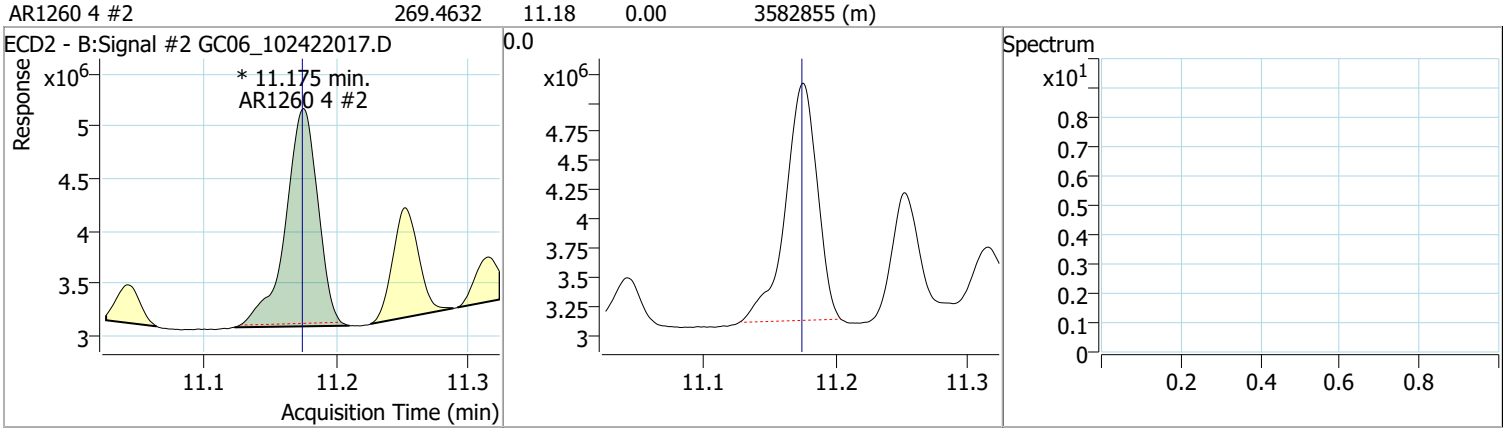
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	272.1624	10.58	0.00	2108588				



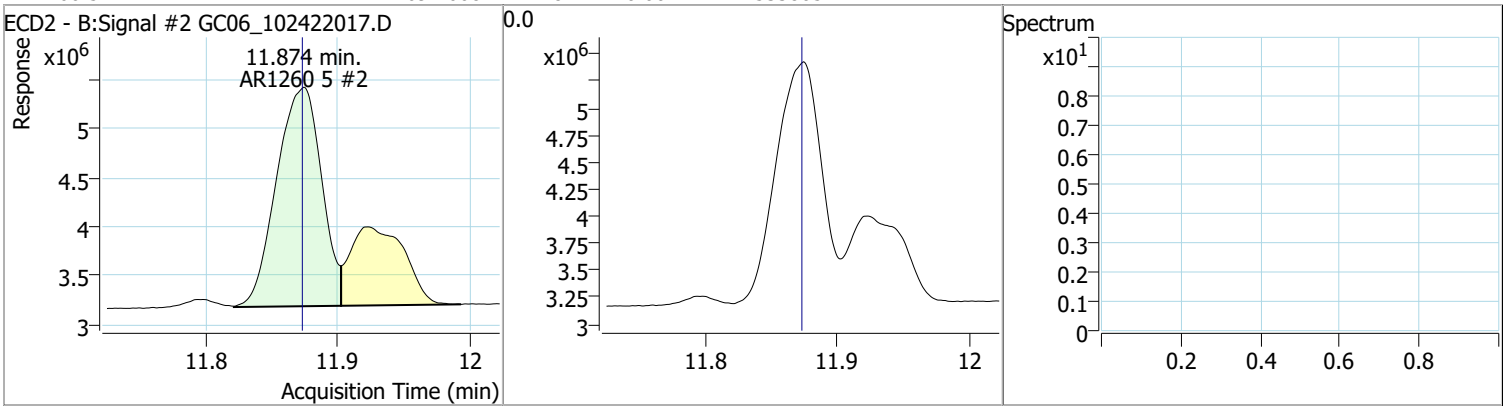
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	250.6144	10.76	0.00	5581397				



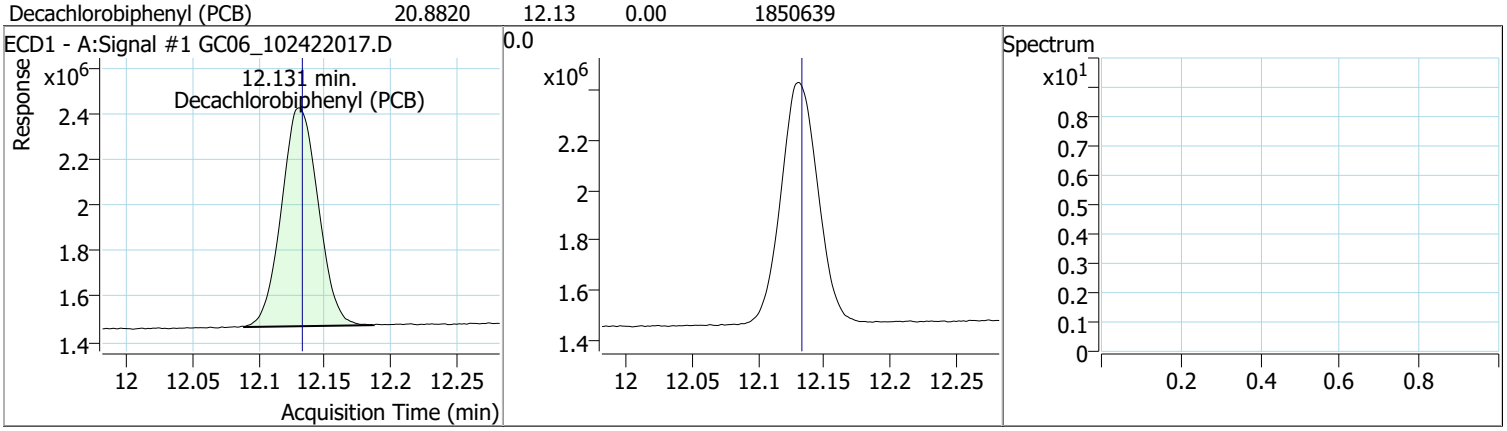
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	269.4632	11.18	0.00	3582855 (m)				



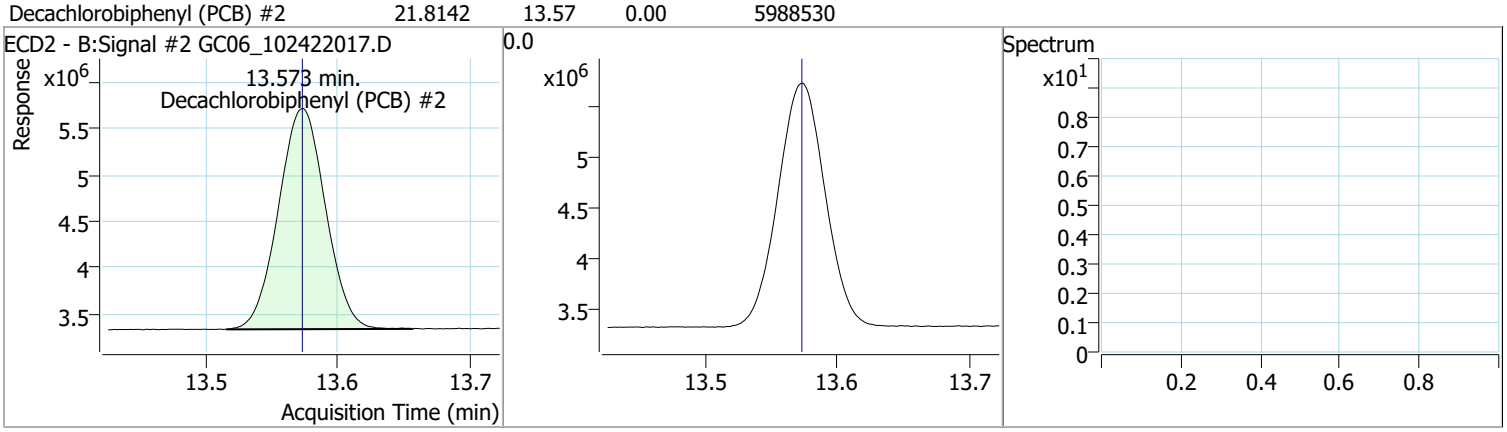
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	269.7608	11.87	0.00	5338057				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	20.8820	12.13	0.00	1850639				

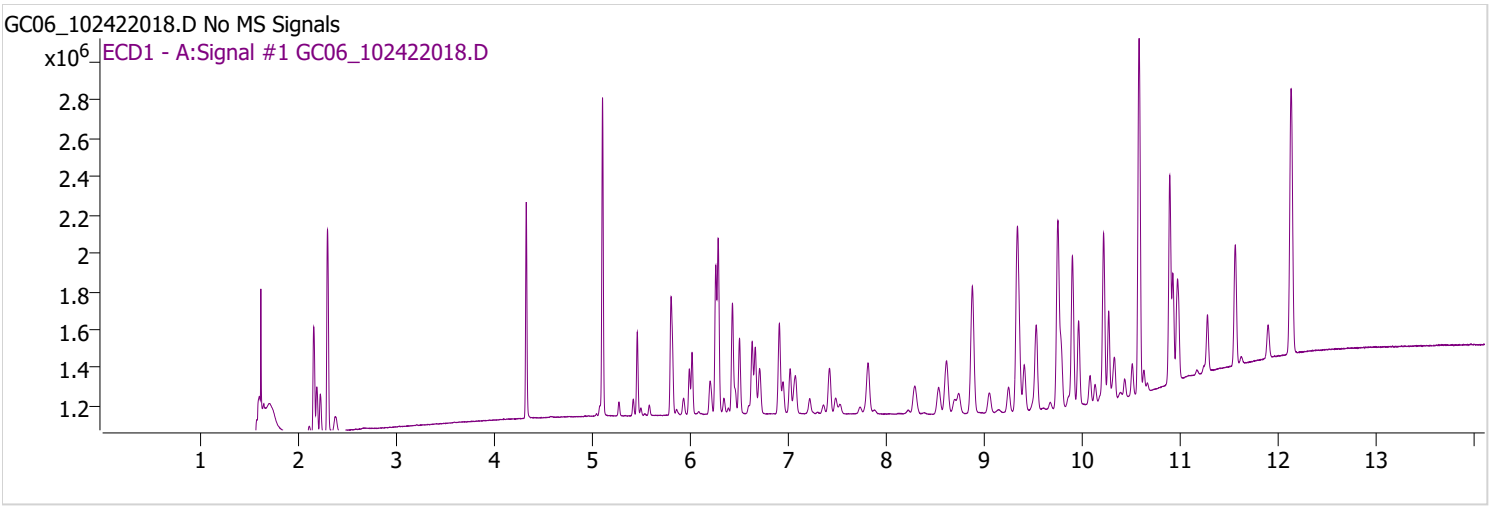


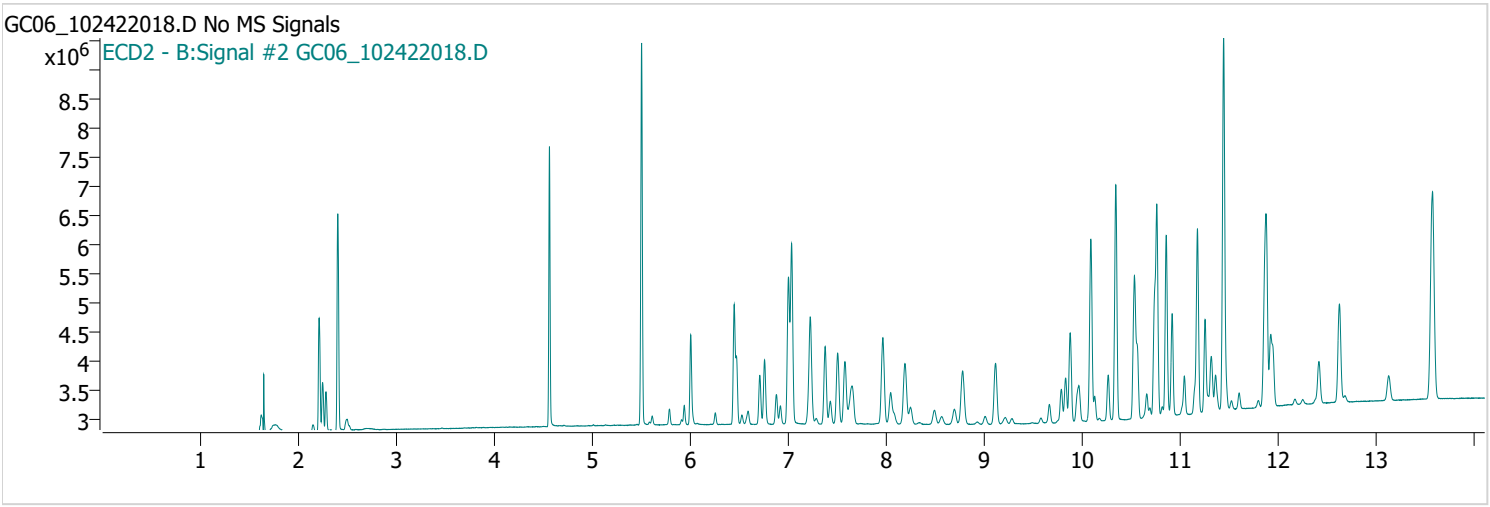
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	21.8142	13.57	0.00	5988530				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422018.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 6:38:01 PM
Sample Name	ICAL, S17267	Instrument	SVOA-GC06
Vial	15	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



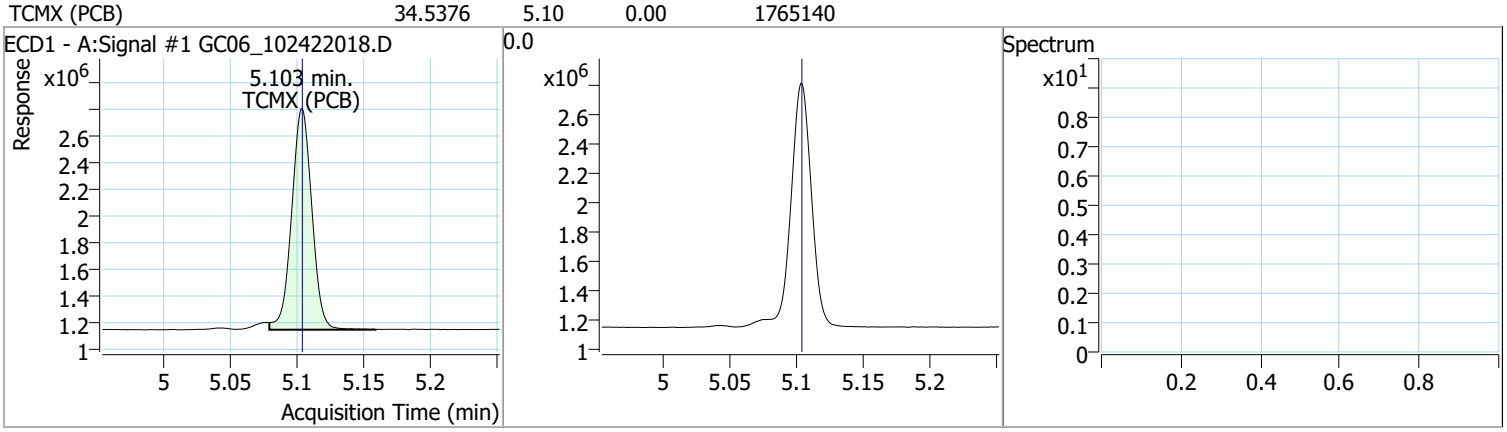


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1063014.245	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	4327999.304	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	1765140.014	34.5376	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 172.69%		*	
S TCMX (PCB) #2	5.503	0.0	7185282.107	34.5695	ng/ml		0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 172.85%		*	
S Decachlorobiphenyl (PCB)	12.132	0.0	2792824.739	39.0257	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 195.13%		*	
S Decachlorobiphenyl (PCB) #2	13.575	0.0	9183894.715	39.6055	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 198.03%		*	
Target Compounds							QValue

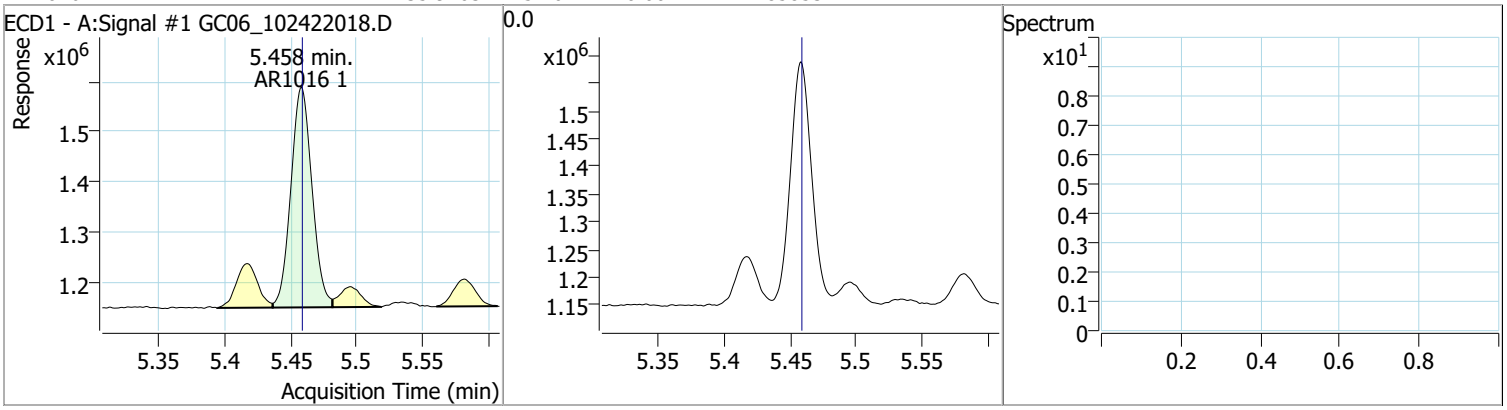
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.458	0.0	485852.867	435.9403	ng/ml		100
T AR1016 2	5.803	0.0	1068389.956	466.7356	ng/ml		100
T AR1016 1 #2	6.003	0.0	2046877.373	455.0453	ng/ml		100
T AR1016 3	6.283	0.0	1246552.904	441.1492	ng/ml		100
T AR1016 4	6.430	0.0	958287.349	445.8988	ng/ml		100
T AR1016 2 #2	6.448	0.0	2839339.245	437.2699	ng/ml	m	100
T AR1016 5	6.908	0.0	776873.262	448.7957	ng/ml		100
T AR1016 3 #2	7.033	0.0	5153170.052	436.7672	ng/ml		100
T AR1016 4 #2	7.223	0.0	3762341.264	446.6742	ng/ml		100
T AR1016 5 #2	7.965	0.0	3081651.312	450.0997	ng/ml		100
T AR1260 1	8.878	0.0	1535144.810	427.1323	ng/ml		100
T AR1260 2	9.338	0.0	2395142.001	437.2290	ng/ml		100
T AR1260 3	9.752	0.0	2465753.437	430.6459	ng/ml		100
T AR1260 1 #2	10.088	0.0	5518695.670	428.4678	ng/ml		100
T AR1260 4	10.218	0.0	1491017.295	477.5929	ng/ml		100
T AR1260 2 #2	10.342	0.0	6578337.875	425.0754	ng/ml		100
T AR1260 5	10.581	0.0	3129643.582	472.8847	ng/ml		100
T AR1260 3 #2	10.760	0.0	8315695.484	424.5121	ng/ml		100
T AR1260 4 #2	11.176	0.0	5439717.782	482.3064	ng/ml		100
T AR1260 5 #2	11.875	0.0	8037599.403	475.0785	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

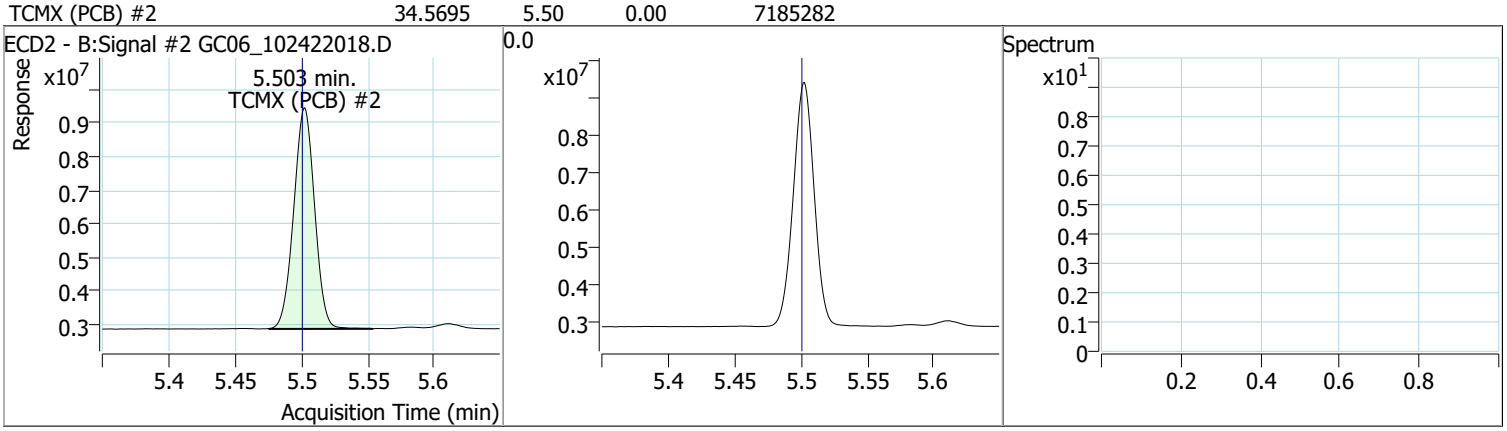
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	34.5376	5.10	0.00	1765140				



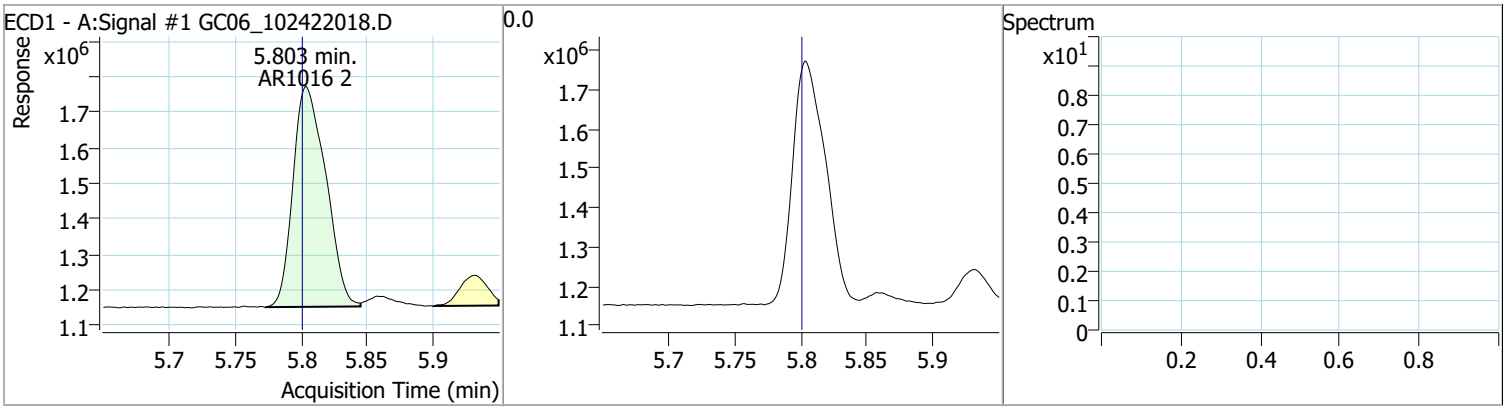
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	435.9403	5.46	0.00	485853				



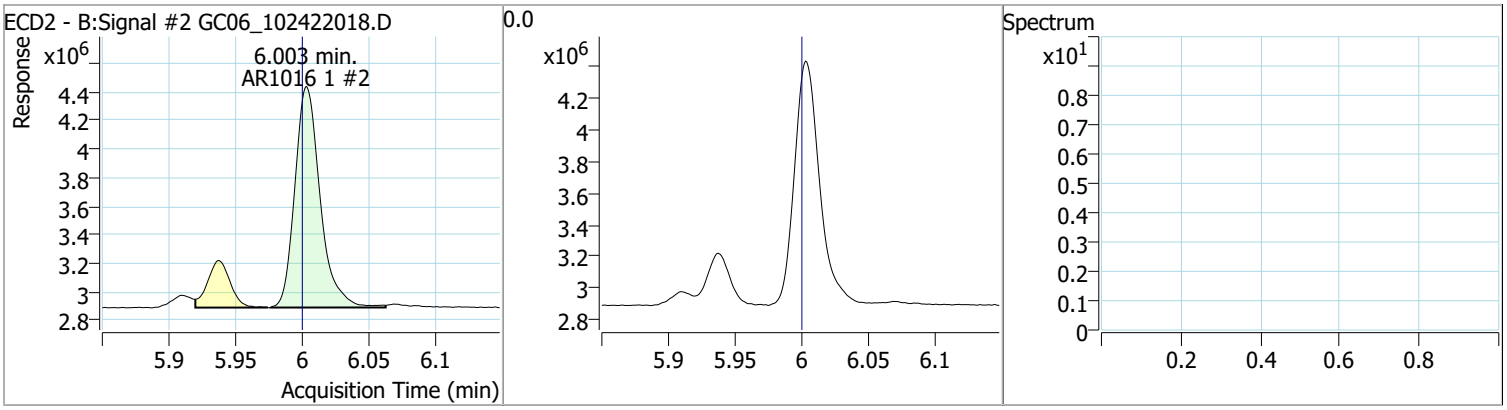
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	34.5695	5.50	0.00	7185282				



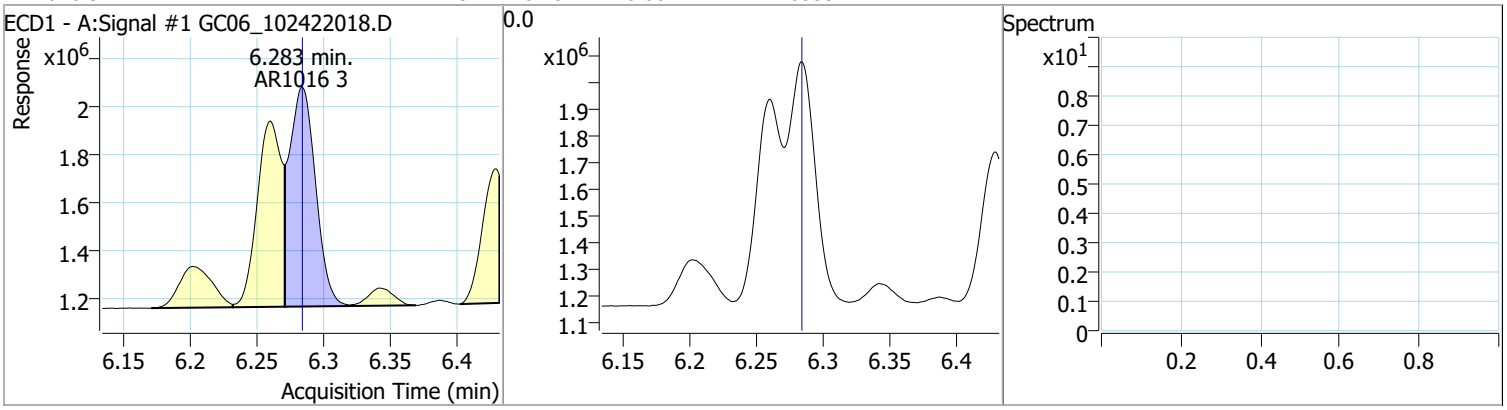
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	466.7356	5.80	0.00	1068390				



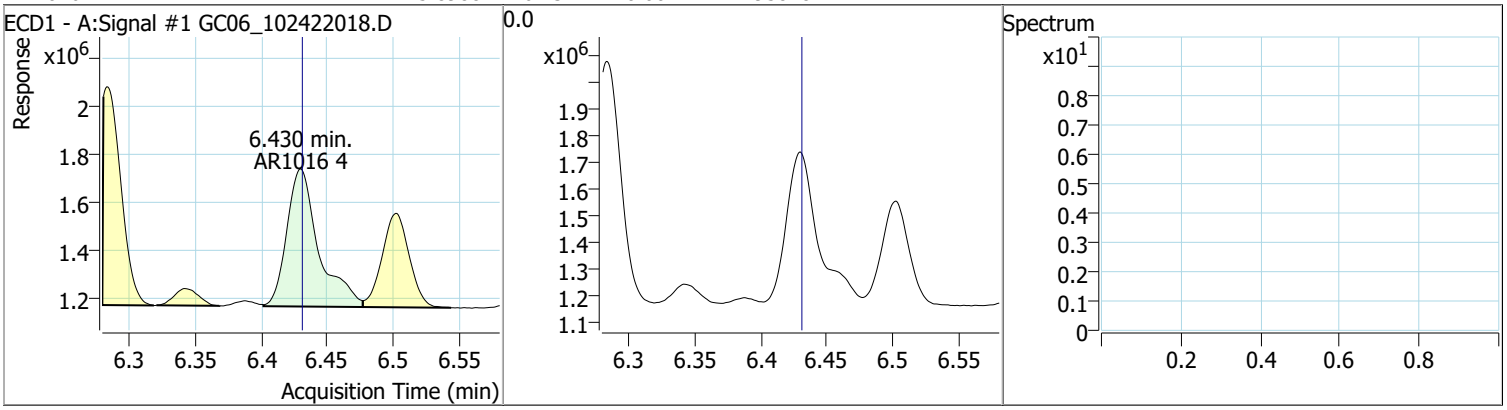
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	455.0453	6.00	0.00	2046877				



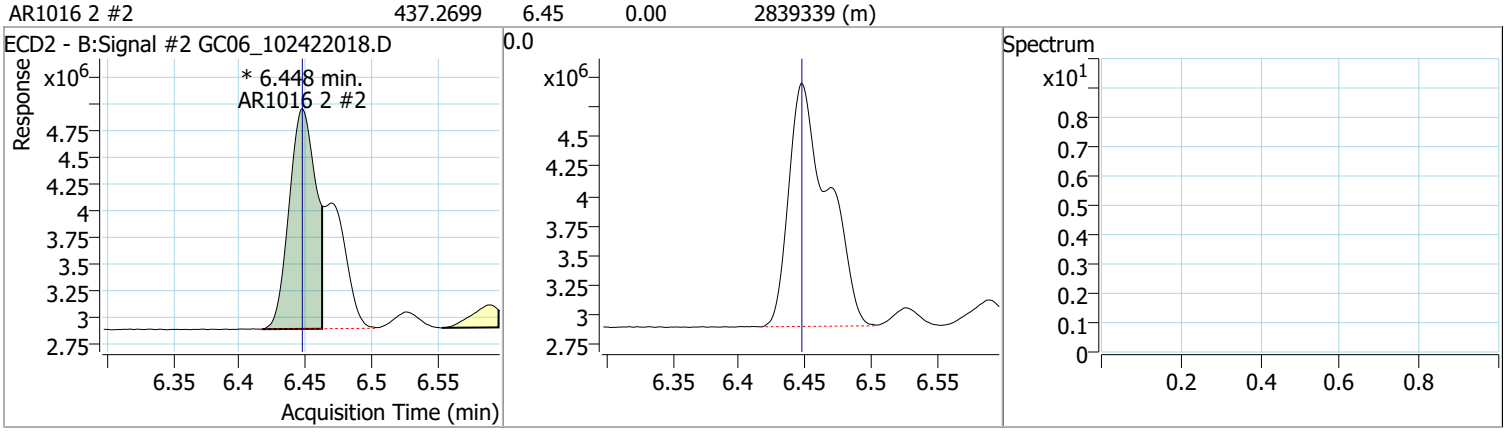
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	441.1492	6.28	0.00	1246553				



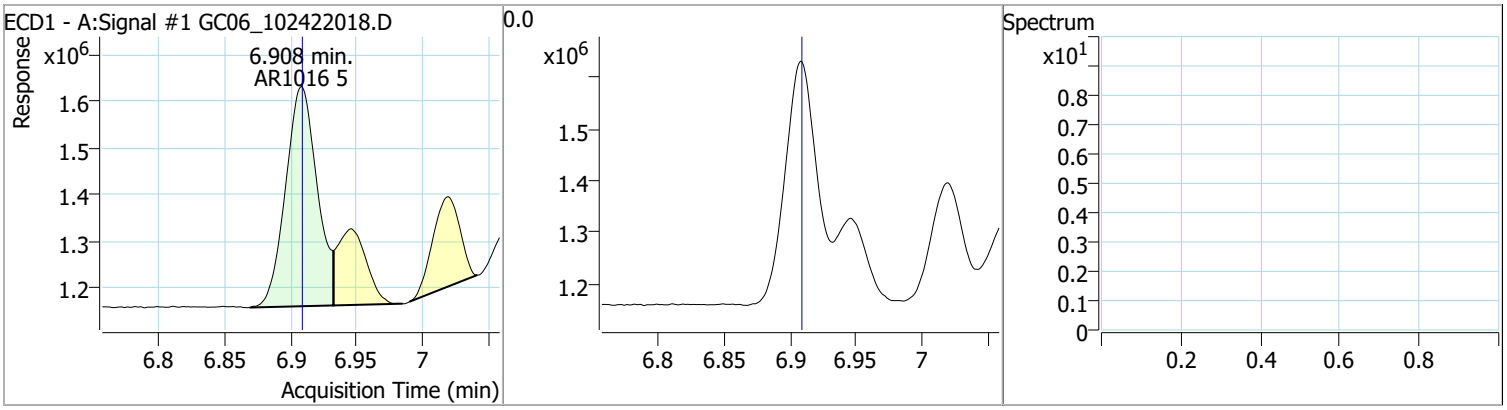
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	445.8988	6.43	0.00	958287				



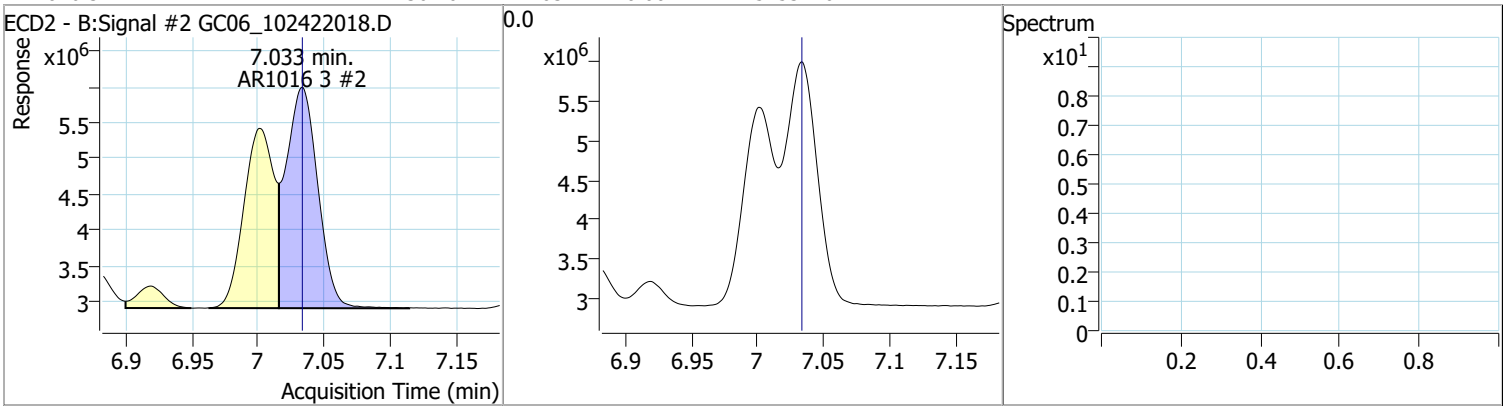
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	437.2699	6.45	0.00	2839339 (m)				



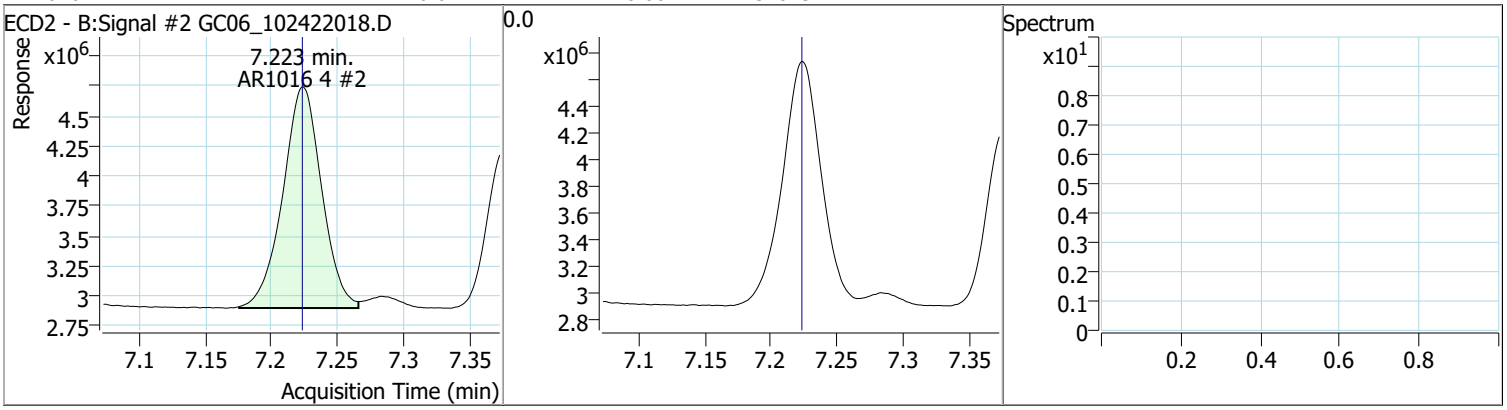
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	448.7957	6.91	0.00	776873				



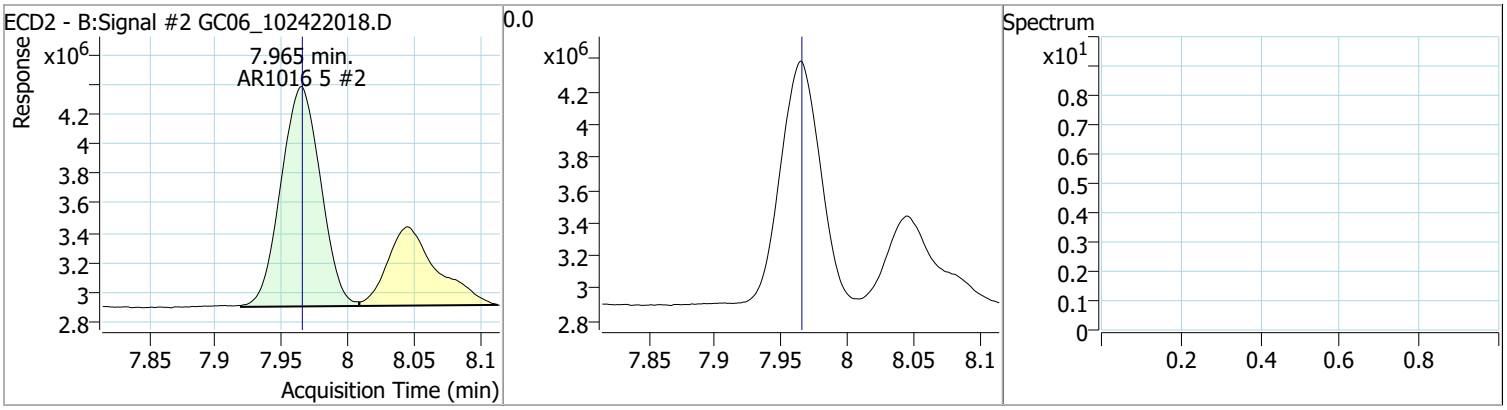
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	436.7672	7.03	0.00	5153170				



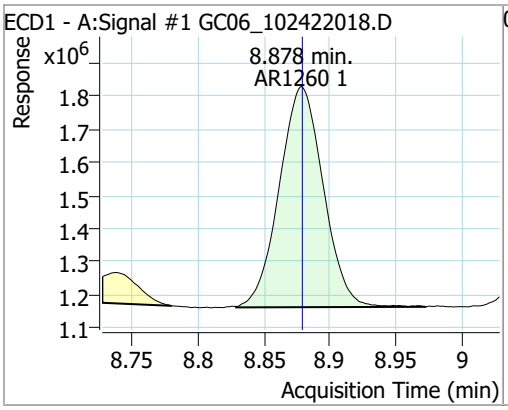
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AR1016 4 #2	446.6742	7.22	0.00	3762341				

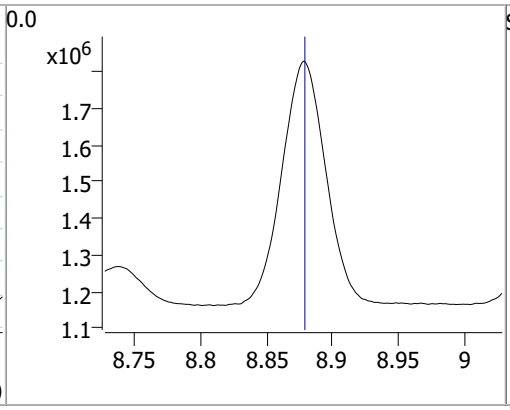


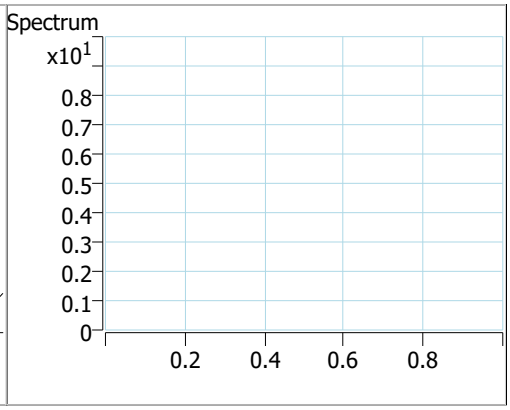
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	450.0997	7.97	0.00	3081651				



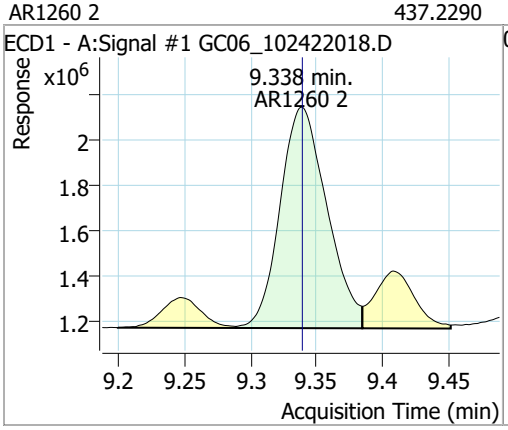
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	427.1323	8.88	0.00	1535145				

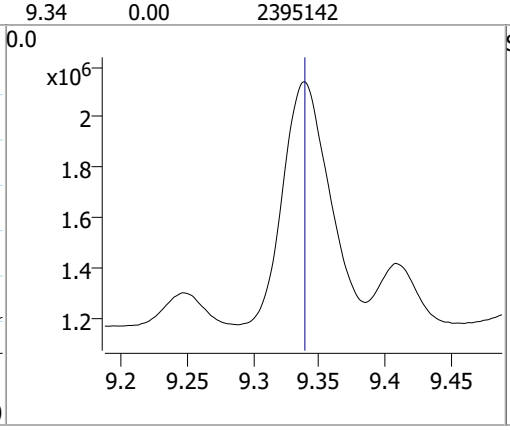


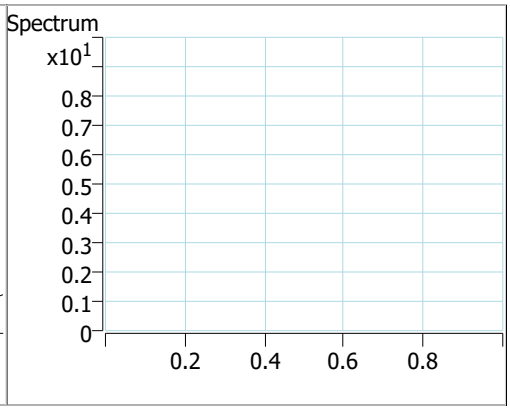




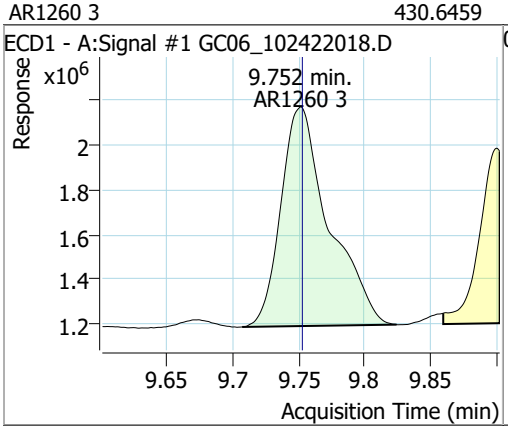
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	437.2290	9.34	0.00	2395142				

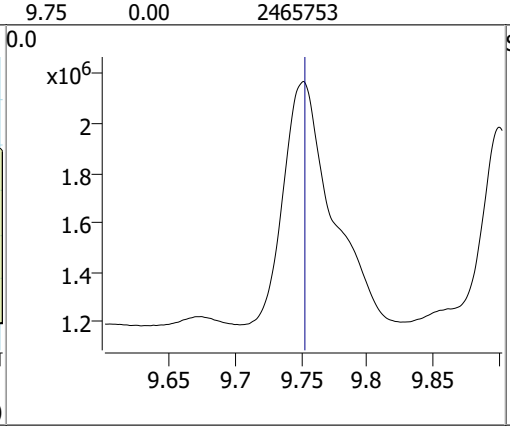


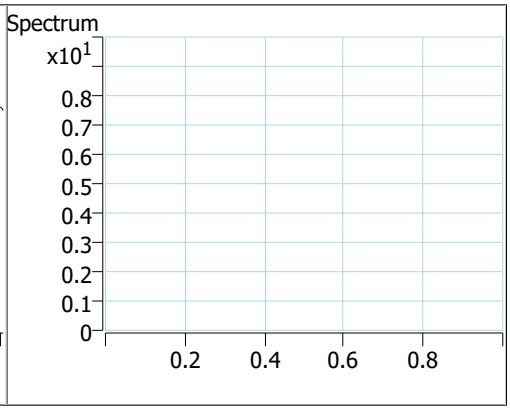




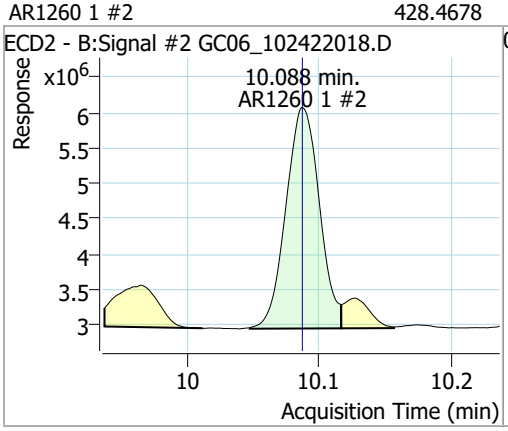
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	430.6459	9.75	0.00	2465753				

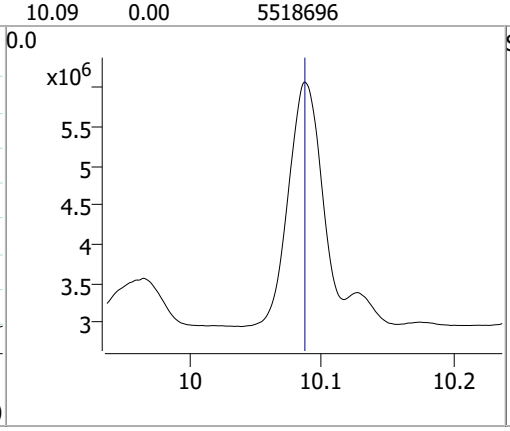


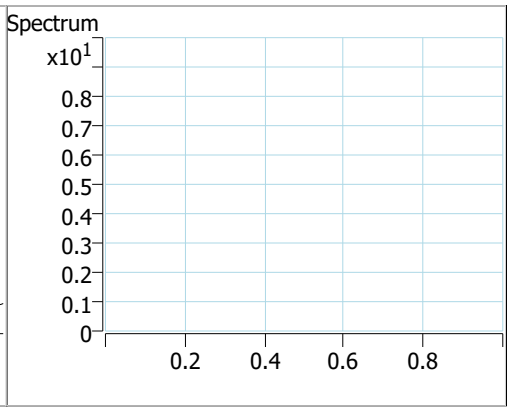




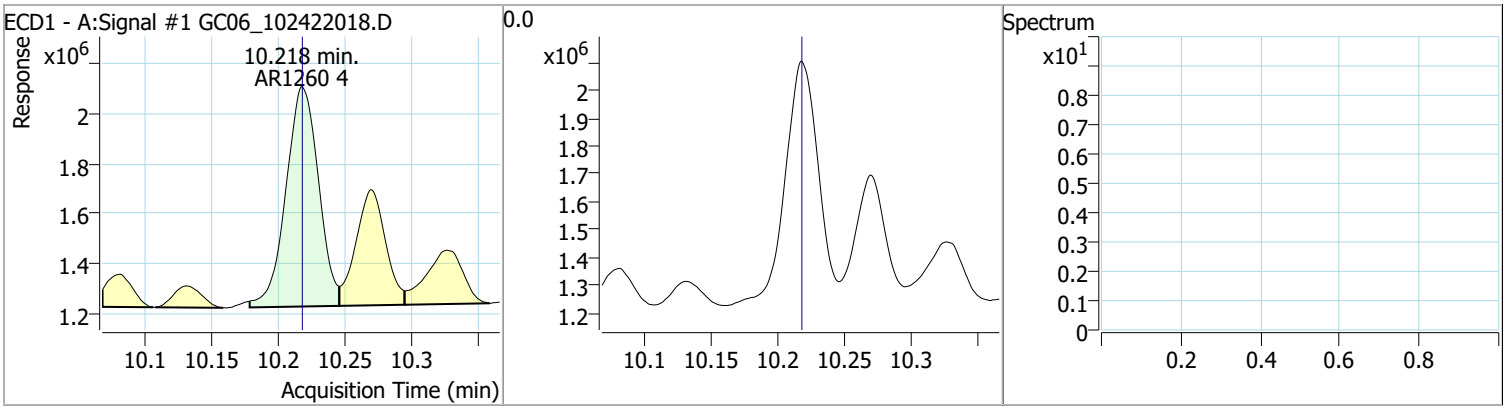
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	428.4678	10.09	0.00	5518696				



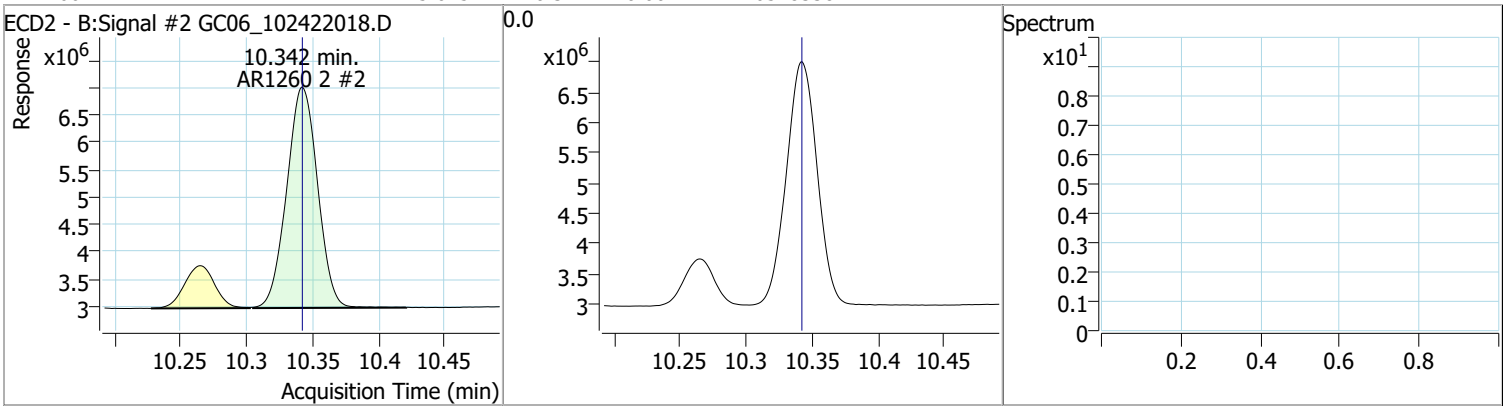




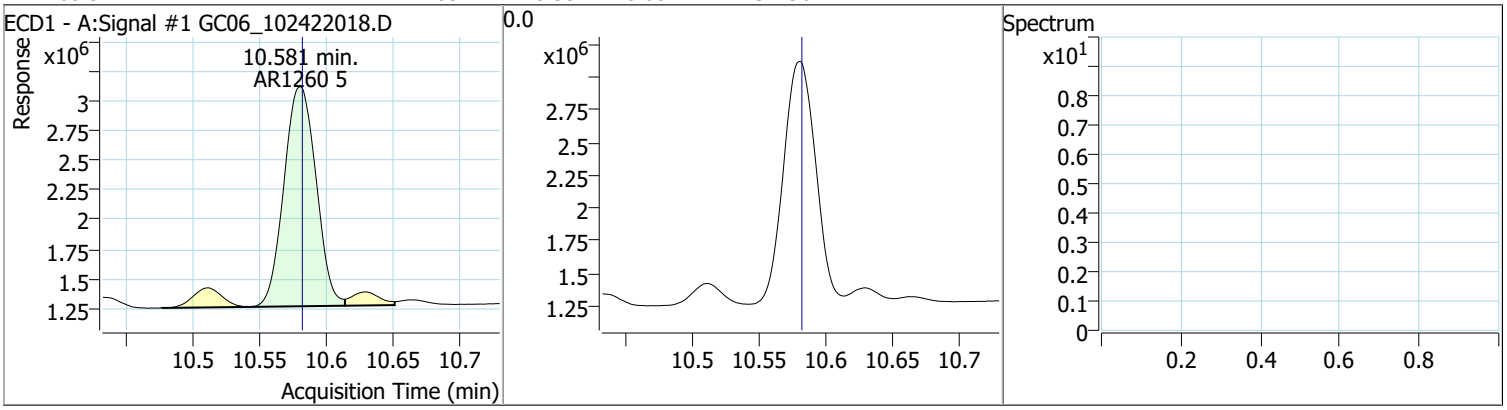
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	477.5929	10.22	0.00	1491017				



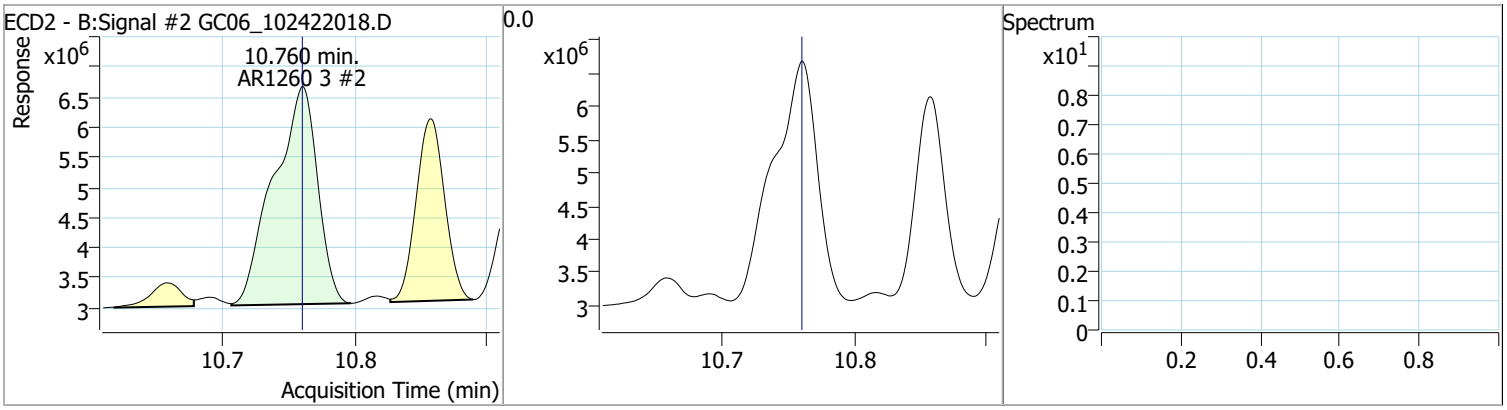
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	425.0754	10.34	0.00	6578338				



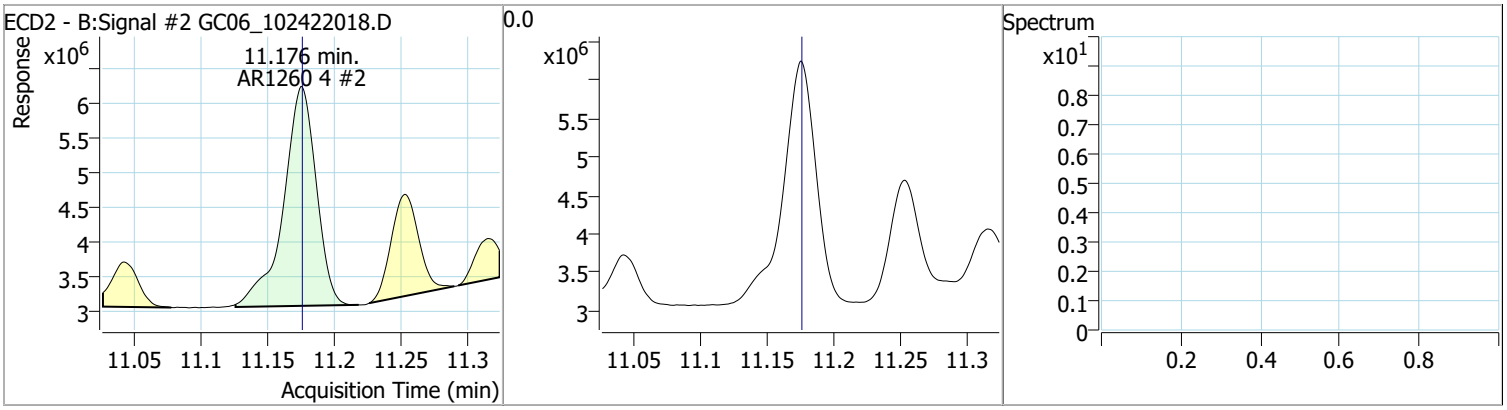
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	472.8847	10.58	0.00	3129644				



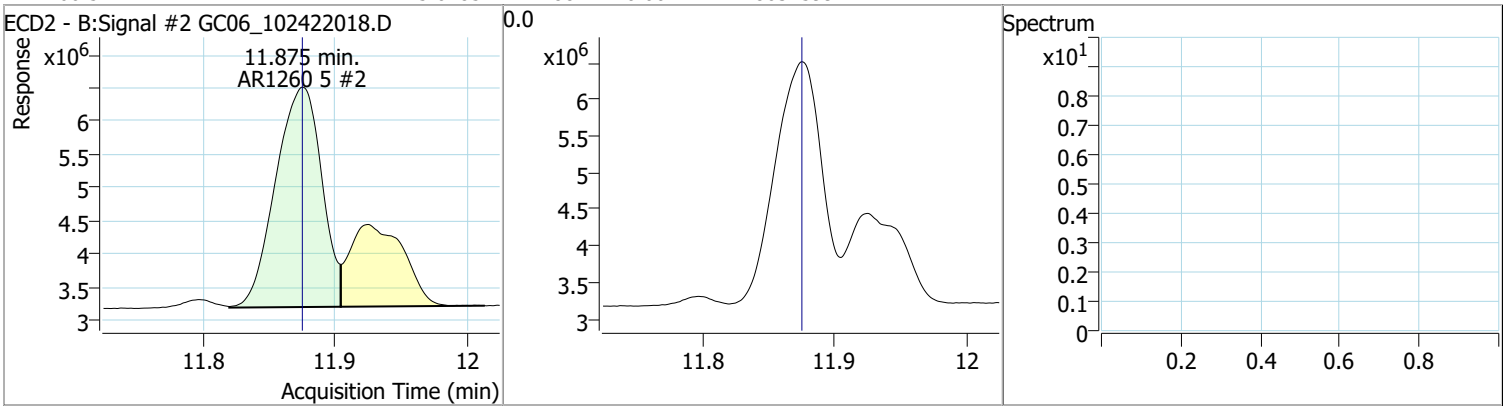
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	424.5121	10.76	0.00	8315695				



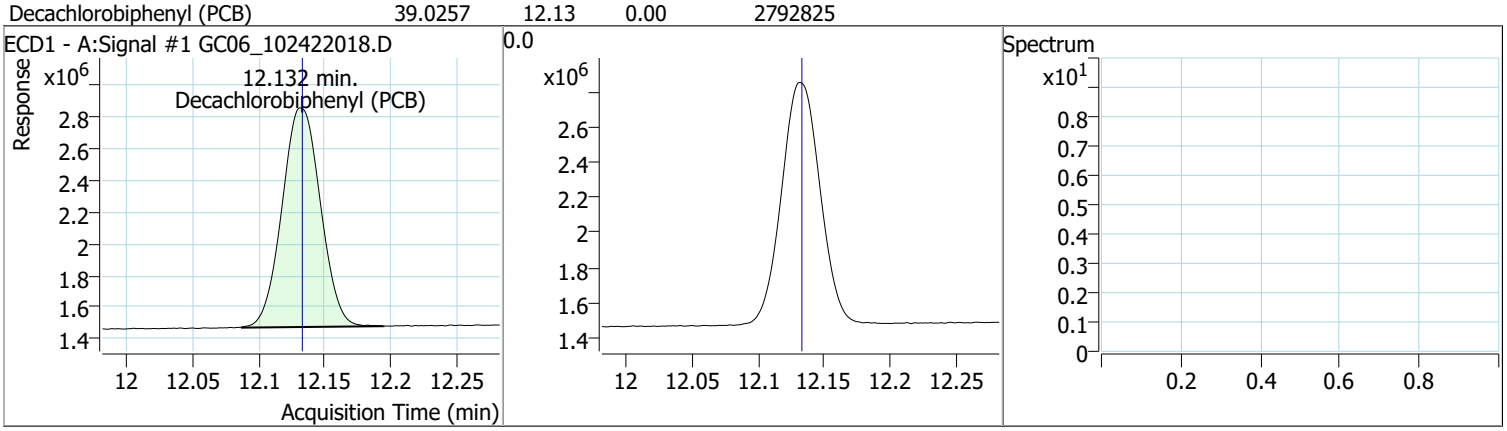
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	482.3064	11.18	0.00	5439718				



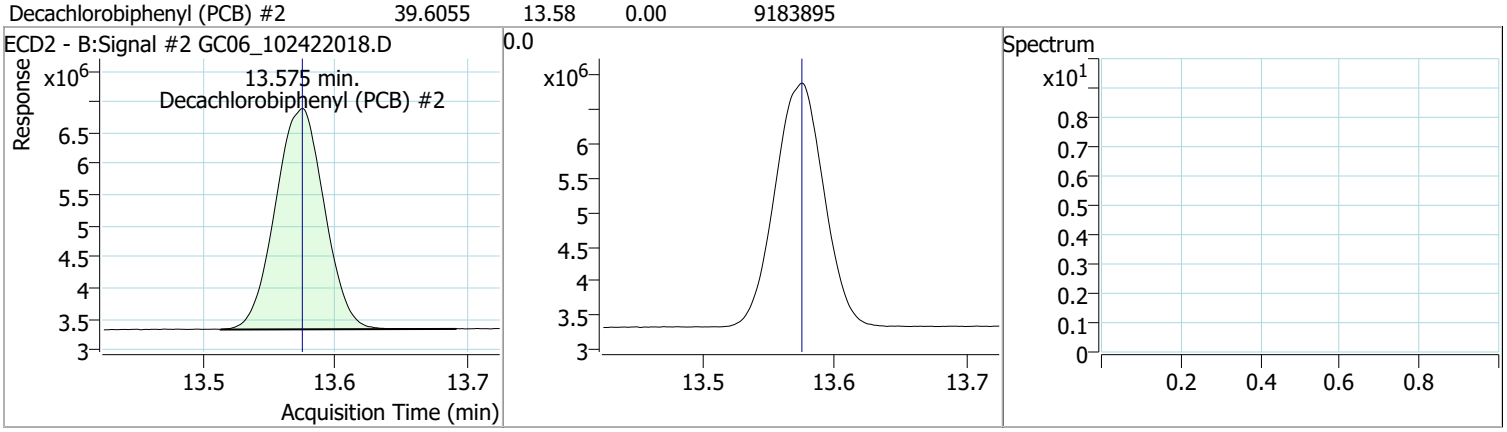
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	475.0785	11.88	0.00	8037599				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	39.0257	12.13	0.00	2792825				

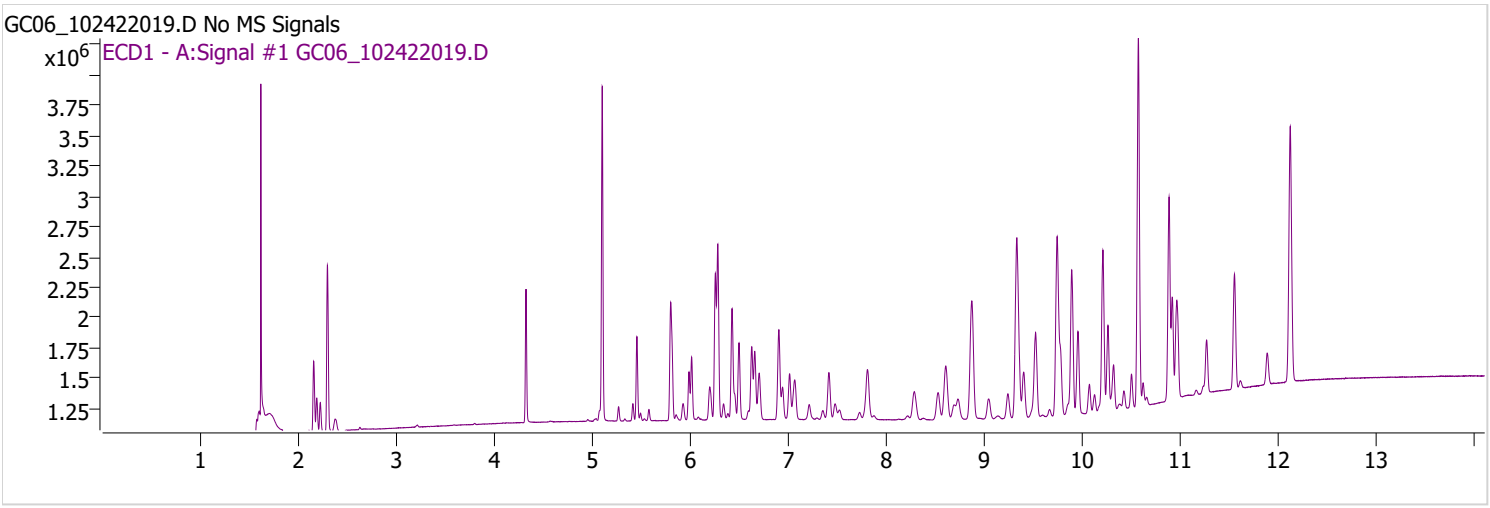


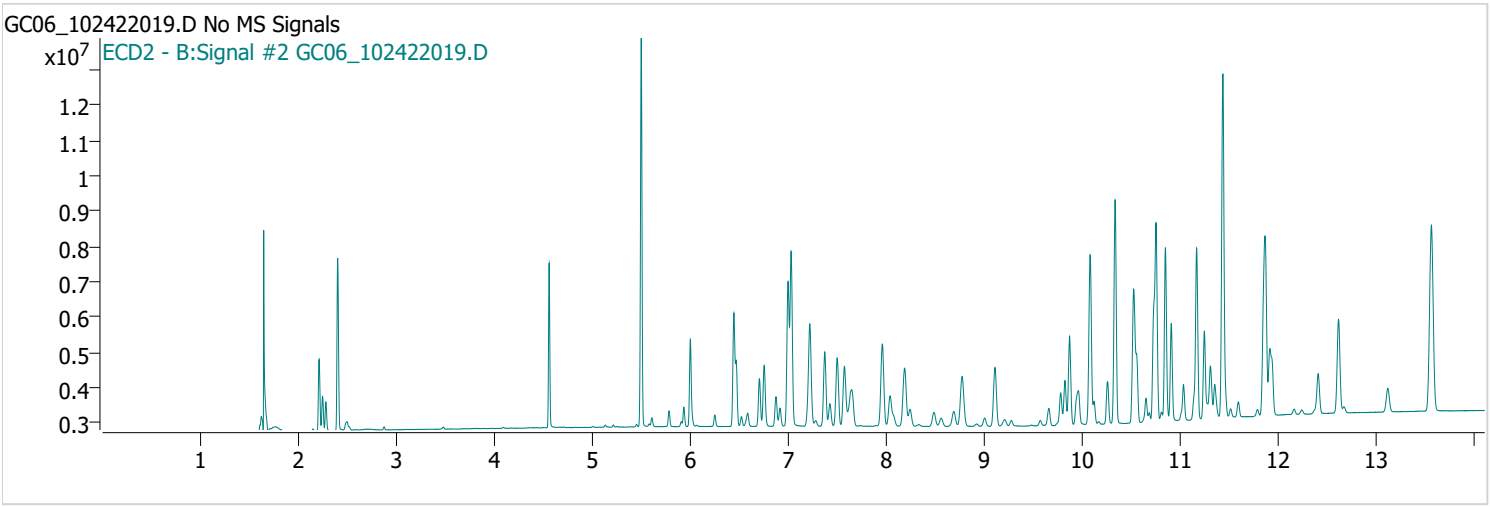
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	39.6055	13.58	0.00	9183895				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422019.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 6:55:57 PM
Sample Name	ICAL, S17268	Instrument	SVOA-GC06
Vial	16	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



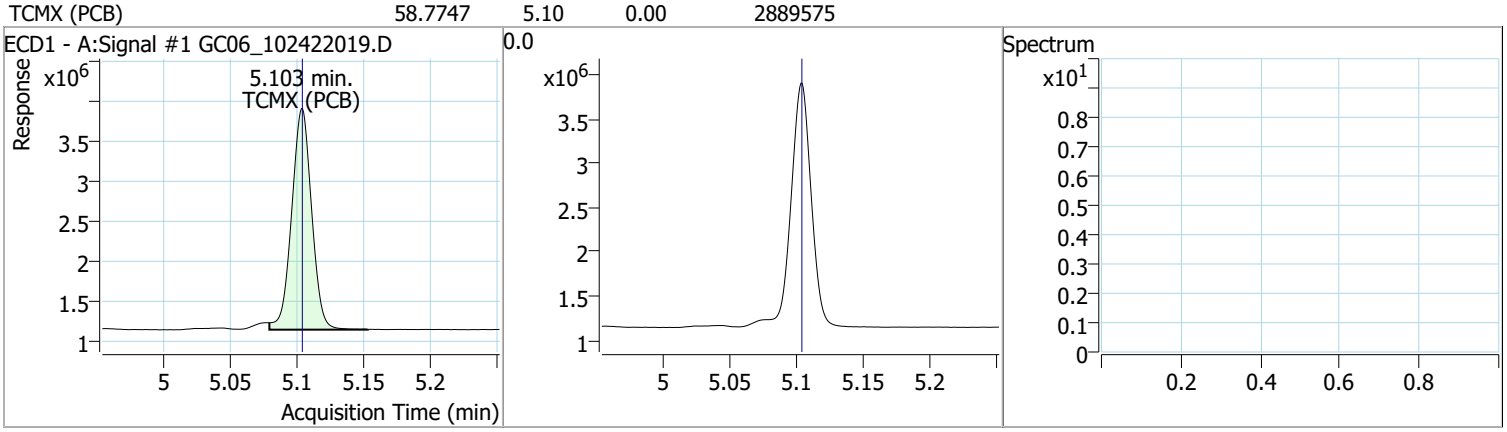


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1022576.576	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	4174033.845	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	2889575.318	58.7747	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 293.87%		*	
S TCMX (PCB) #2	5.502	0.0	12018447.242	59.9555	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 299.78%		*	
S Decachlorobiphenyl (PCB)	12.131	0.0	4087132.062	61.6234	ng/ml	m	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 308.12%		*	
S Decachlorobiphenyl (PCB) #2	13.573	0.0	13554343.443	61.7298	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 308.65%		*	
Target Compounds							QValue

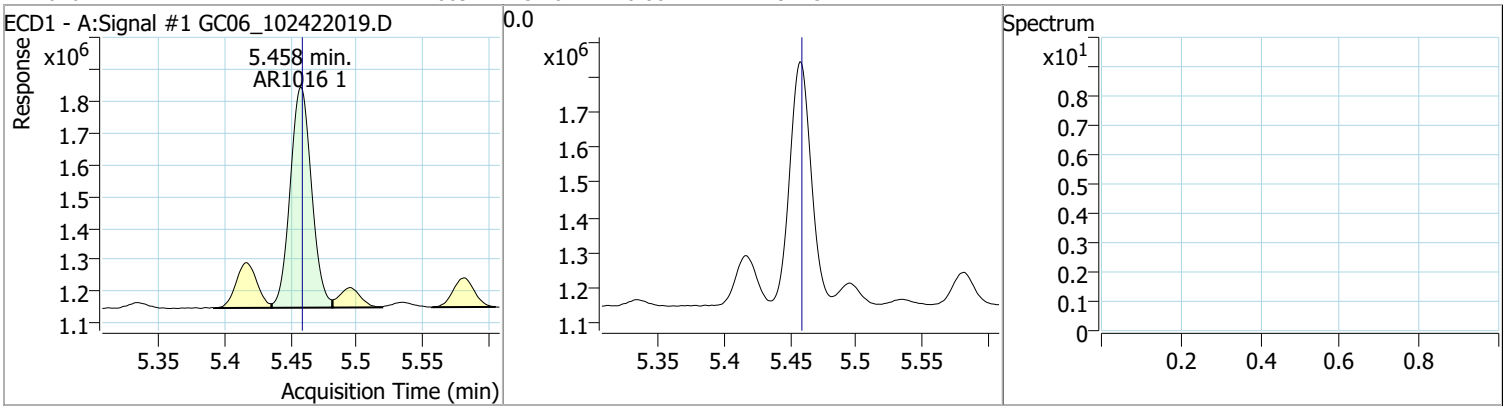
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.458	0.0	779425.049	727.0091	ng/ml		100
T AR1016 2	5.803	0.0	1697508.479	780.9261	ng/ml		100
T AR1016 1 #2	6.003	0.0	3250519.385	749.2846	ng/ml		100
T AR1016 3	6.284	0.0	1999248.159	735.5035	ng/ml		100
T AR1016 4	6.430	0.0	1529918.274	740.0346	ng/ml		100
T AR1016 2 #2	6.448	0.0	4584883.612	732.1361	ng/ml	m	100
T AR1016 5	6.908	0.0	1230110.661	738.7304	ng/ml		100
T AR1016 3 #2	7.033	0.0	8226702.311	722.9904	ng/ml		100
T AR1016 4 #2	7.223	0.0	5998163.664	738.3839	ng/ml		100
T AR1016 5 #2	7.964	0.0	4908449.359	743.3626	ng/ml		100
T AR1260 1	8.878	0.0	2377973.108	687.8018	ng/ml	m	100
T AR1260 2	9.338	0.0	3608366.991	684.7493	ng/ml		100
T AR1260 3	9.750	0.0	3823910.537	694.2591	ng/ml		100
T AR1260 1 #2	10.087	0.0	8619738.178	693.9161	ng/ml		100
T AR1260 4	10.218	0.0	2291687.481	772.3166	ng/ml		100
T AR1260 2 #2	10.342	0.0	10189046.973	682.6759	ng/ml		100
T AR1260 5	10.579	0.0	4841911.227	771.5470	ng/ml		100
T AR1260 3 #2	10.760	0.0	12934062.436	684.6327	ng/ml		100
T AR1260 4 #2	11.174	0.0	8435663.631	789.9076	ng/ml		100
T AR1260 5 #2	11.873	0.0	12366844.232	769.0388	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

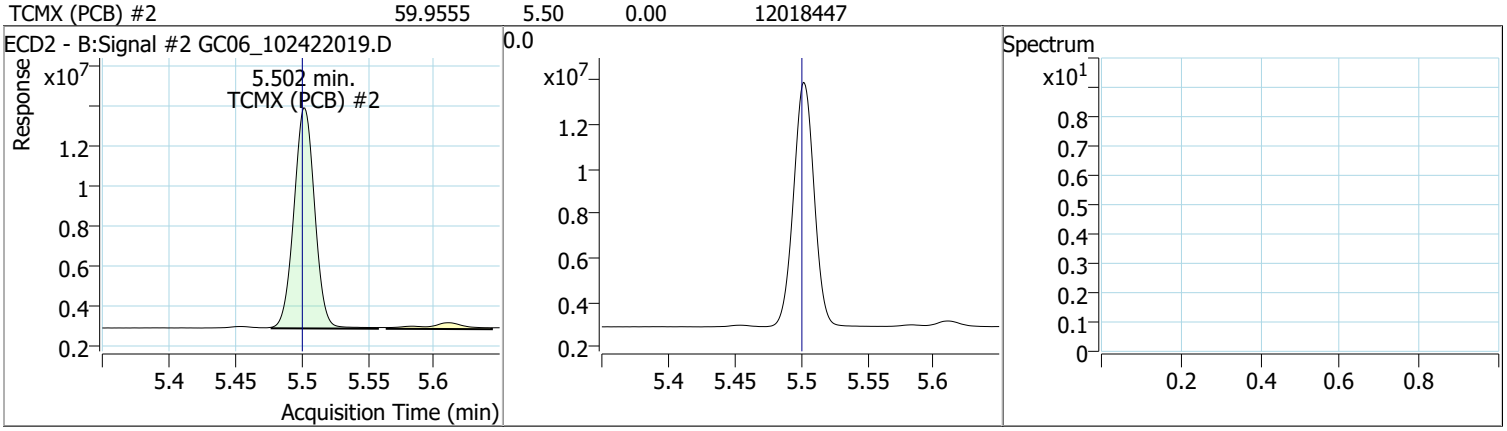
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	58.7747	5.10	0.00	2889575				



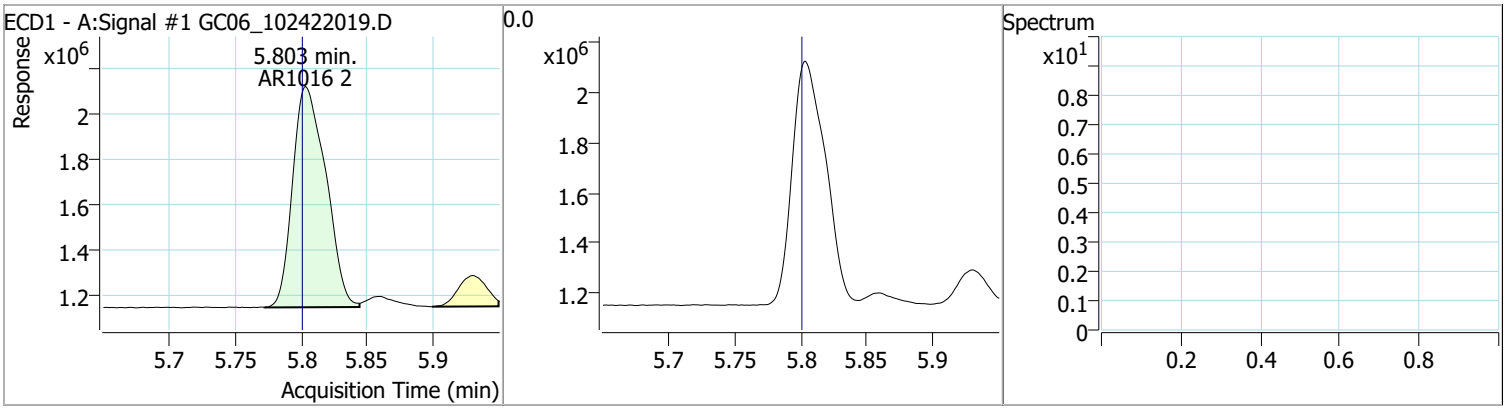
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	727.0091	5.46	0.00	779425				



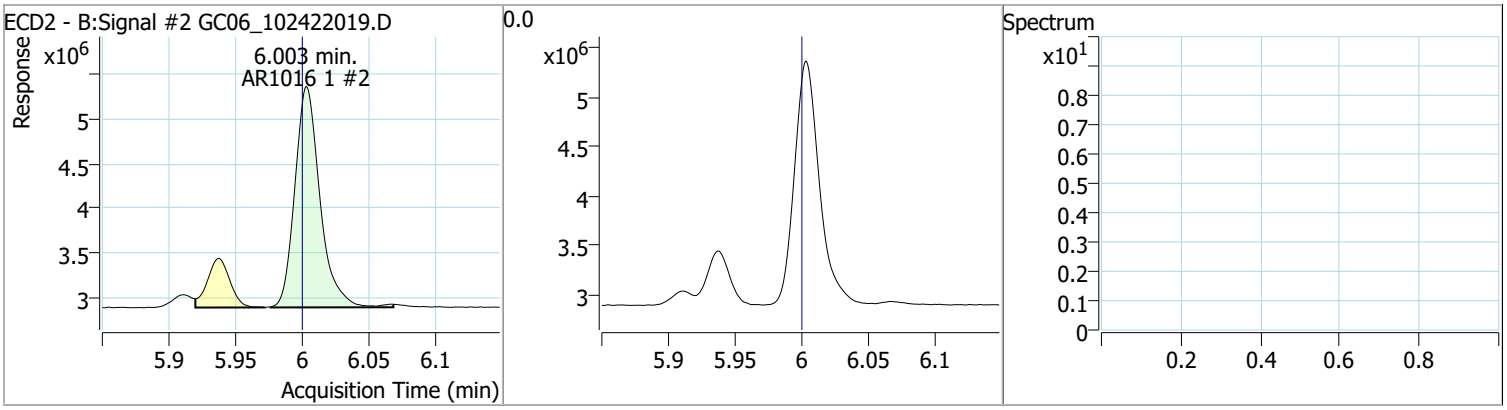
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	59.9555	5.50	0.00	12018447				



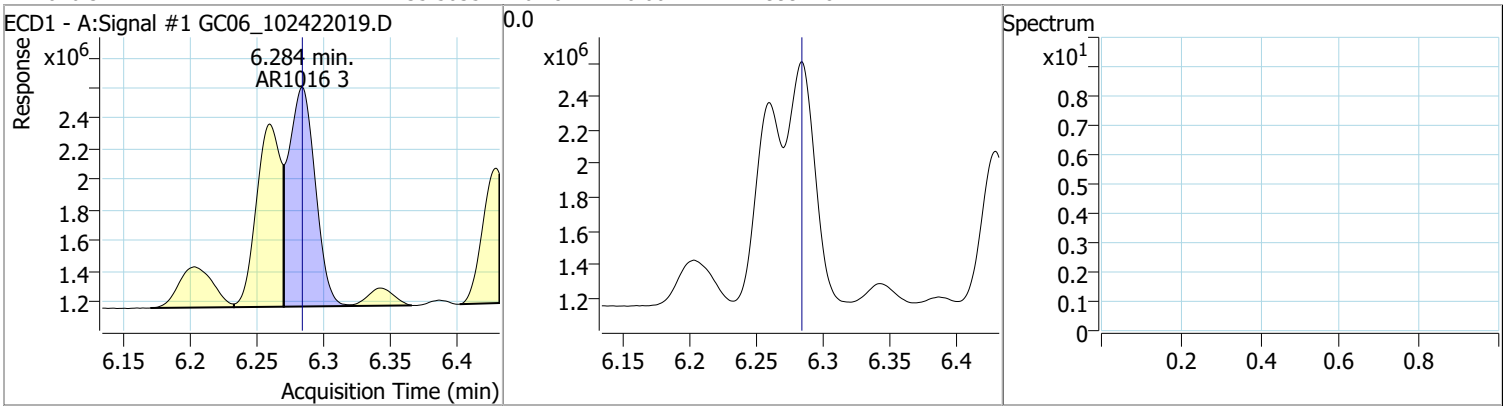
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	780.9261	5.80	0.00	1697508				



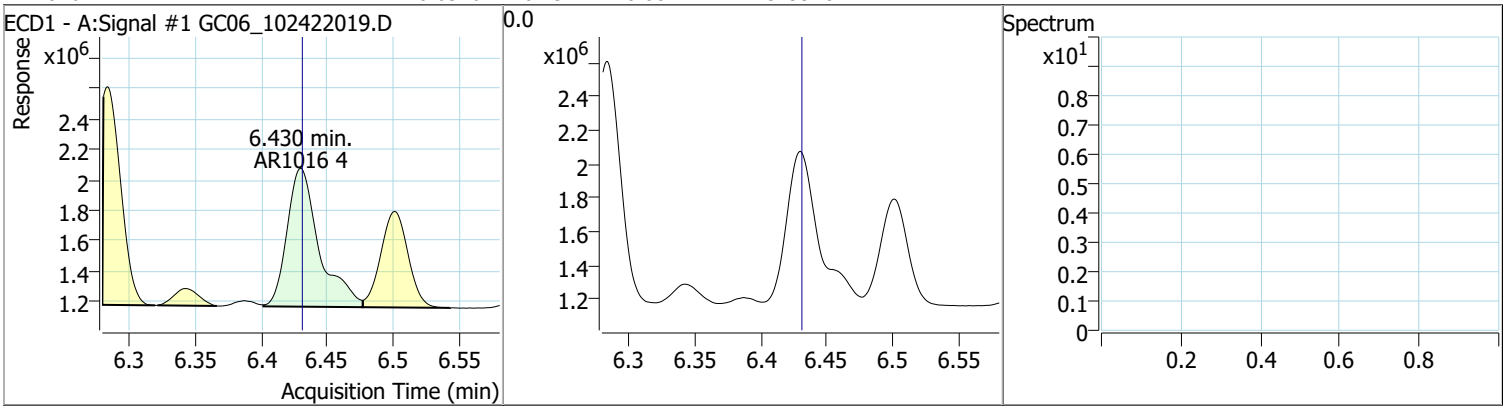
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	749.2846	6.00	0.00	3250519				



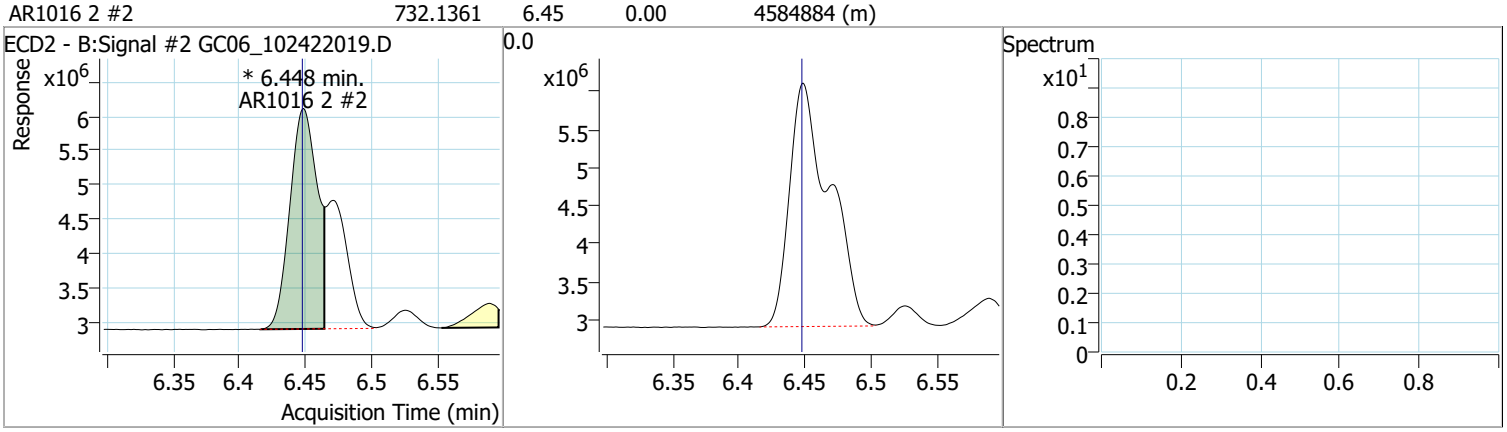
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	735.5035	6.28	0.00	1999248				



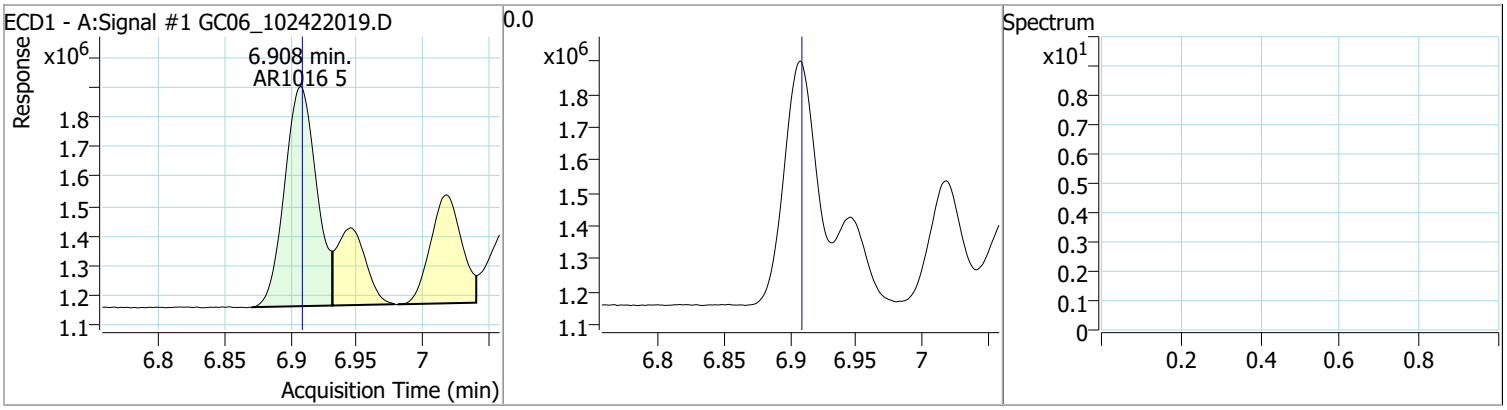
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	740.0346	6.43	0.00	1529918				



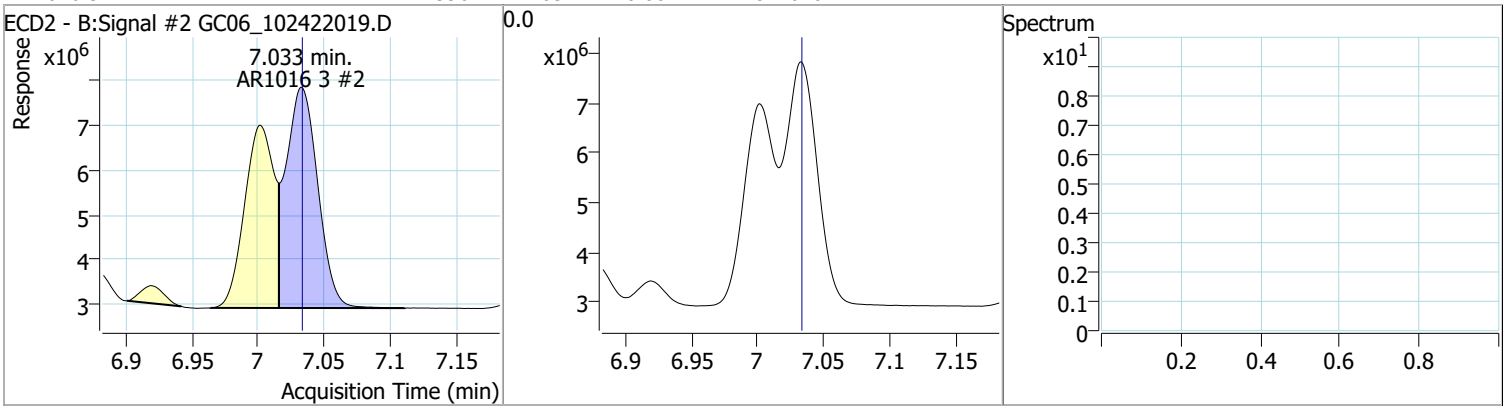
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	732.1361	6.45	0.00	4584884 (m)				



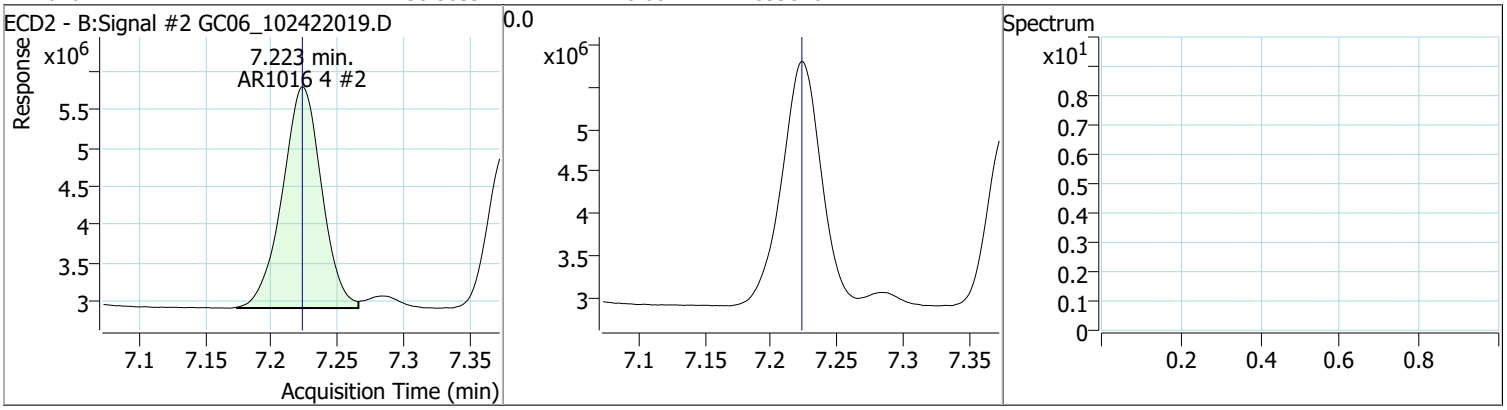
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	738.7304	6.91	0.00	1230111				



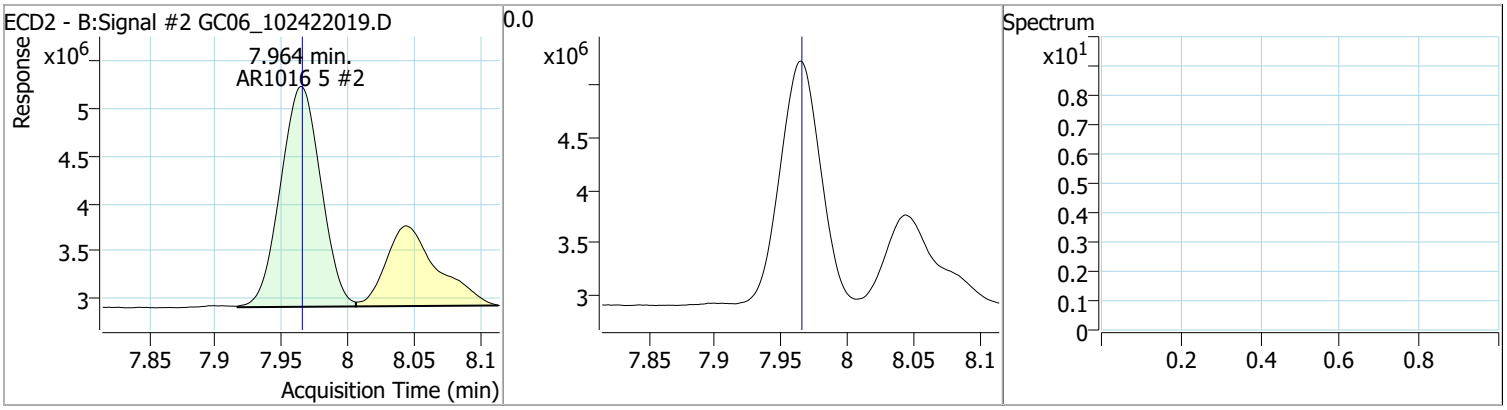
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	722.9904	7.03	0.00	8226702				



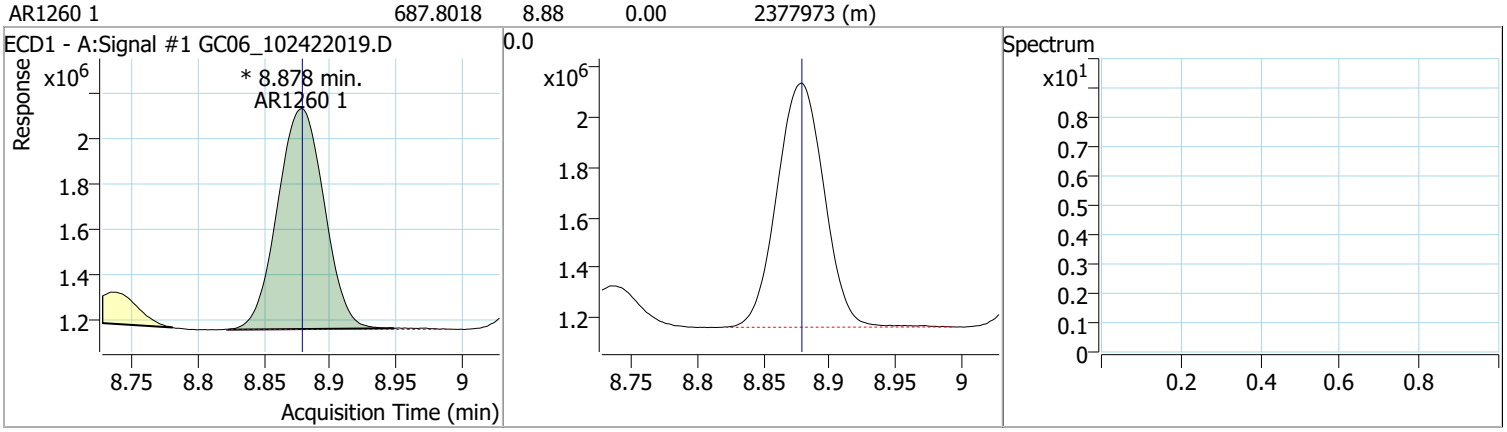
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	738.3839	7.22	0.00	5998164				



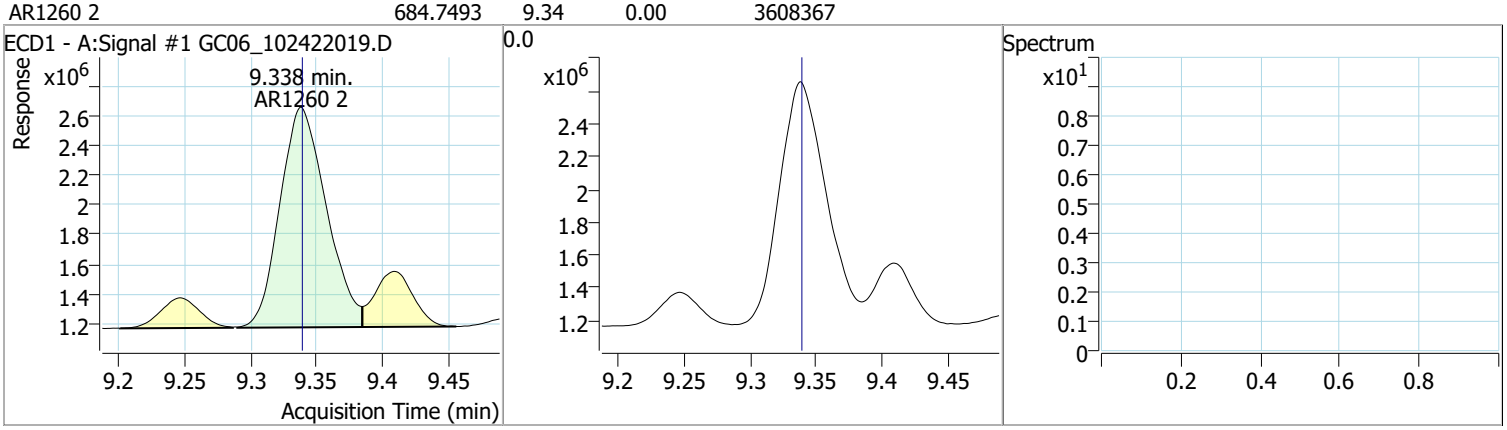
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	743.3626	7.96	0.00	4908449				



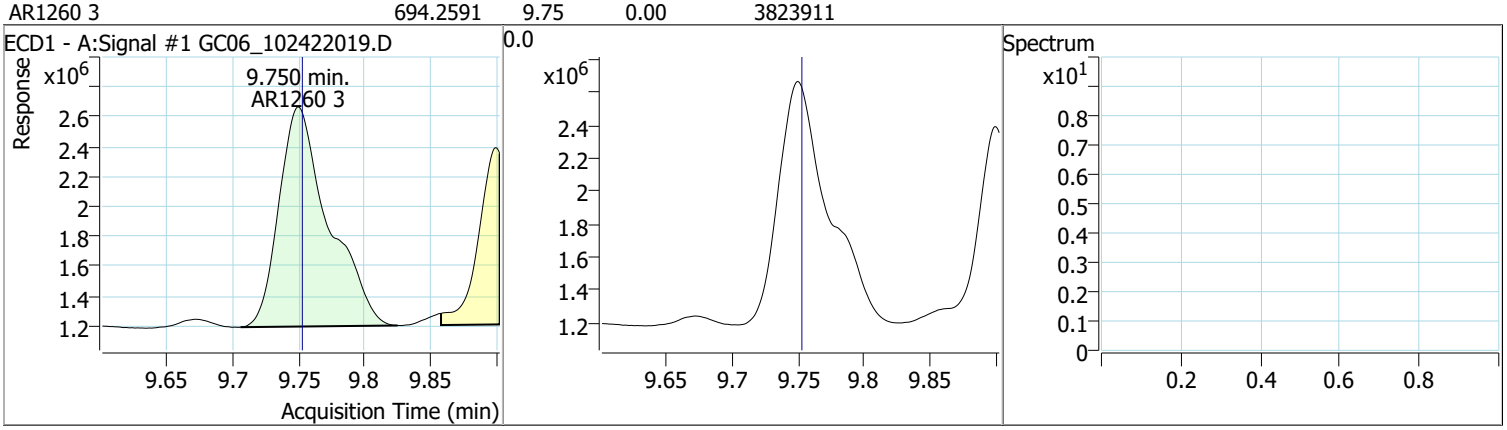
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	687.8018	8.88	0.00	2377973 (m)				



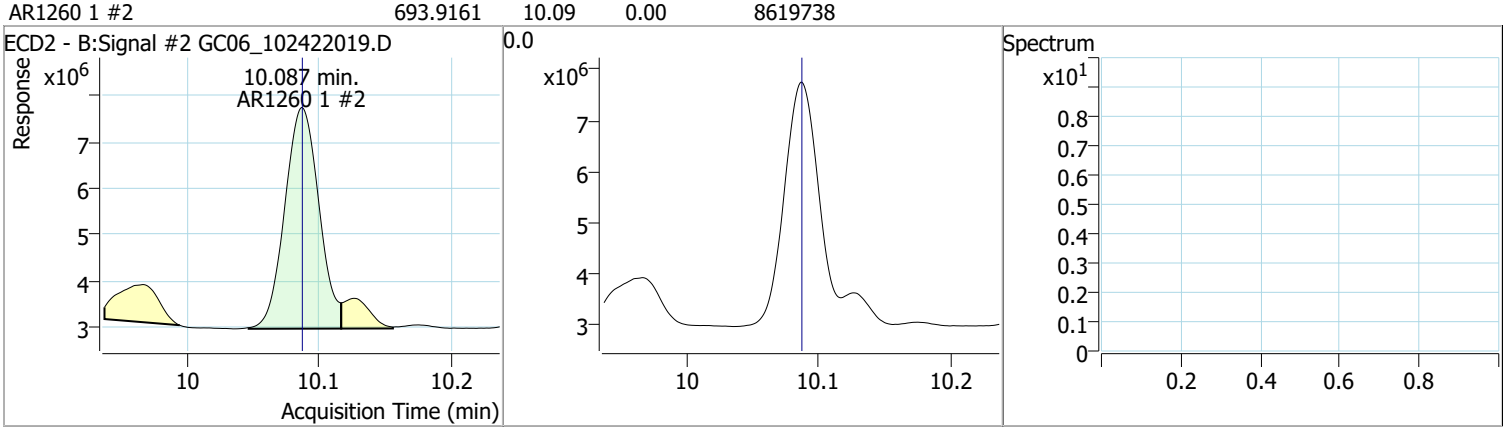
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	684.7493	9.34	0.00	3608367				



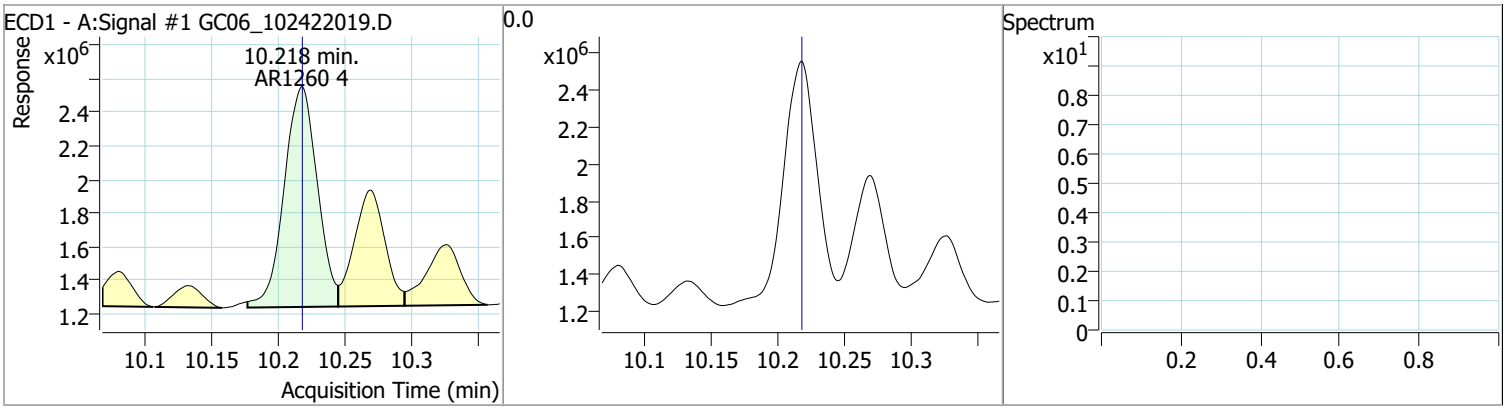
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	694.2591	9.75	0.00	3823911				



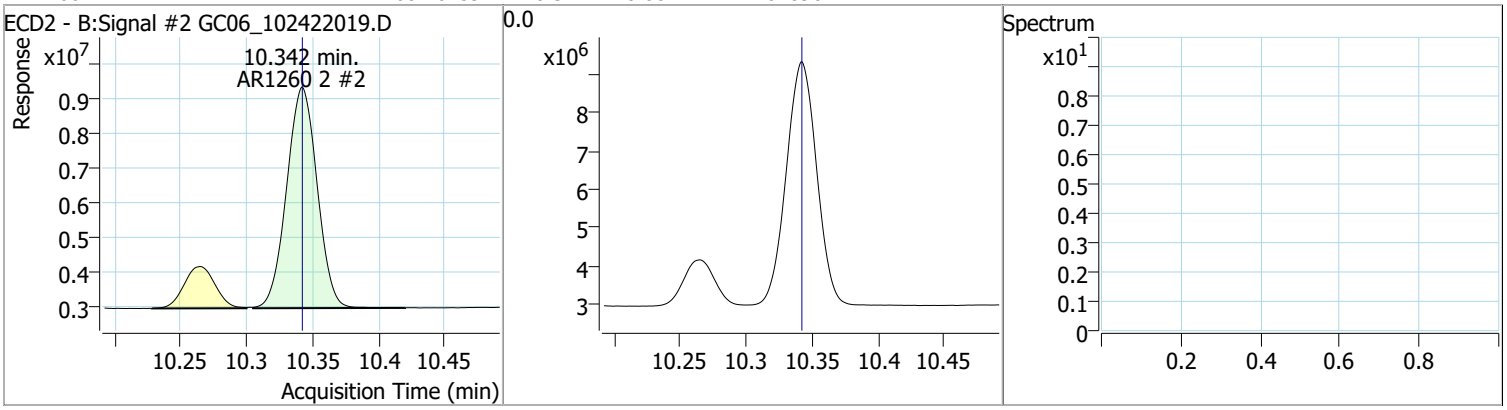
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	693.9161	10.09	0.00	8619738				



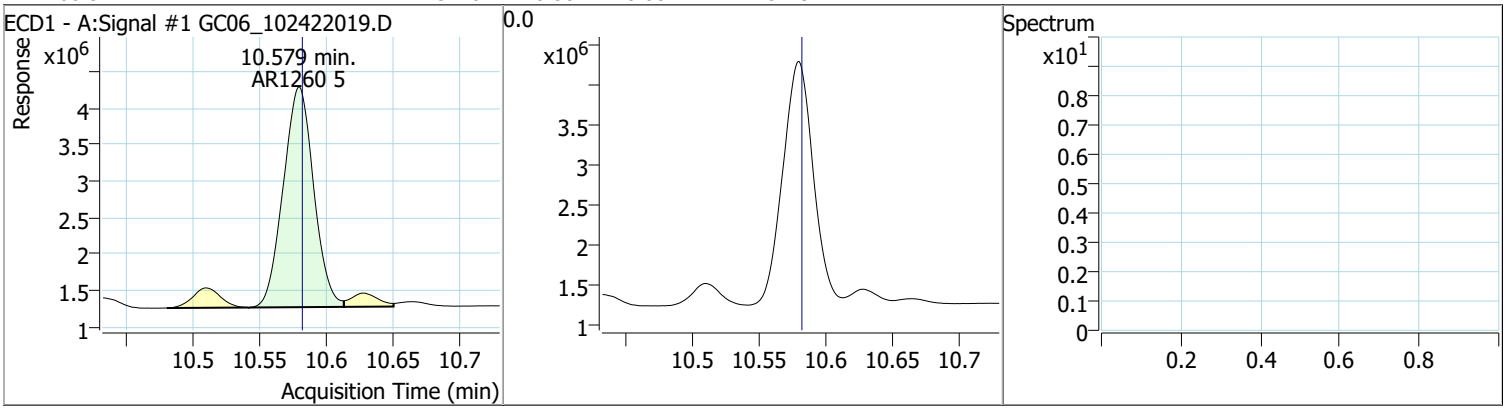
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	772.3166	10.22	0.00	2291687				



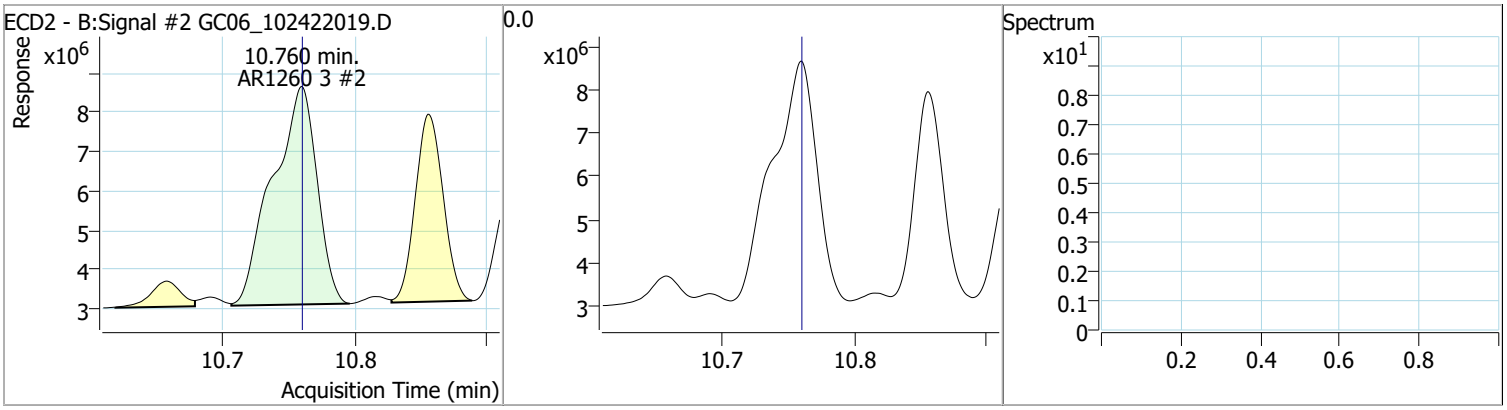
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	682.6759	10.34	0.00	10189047				



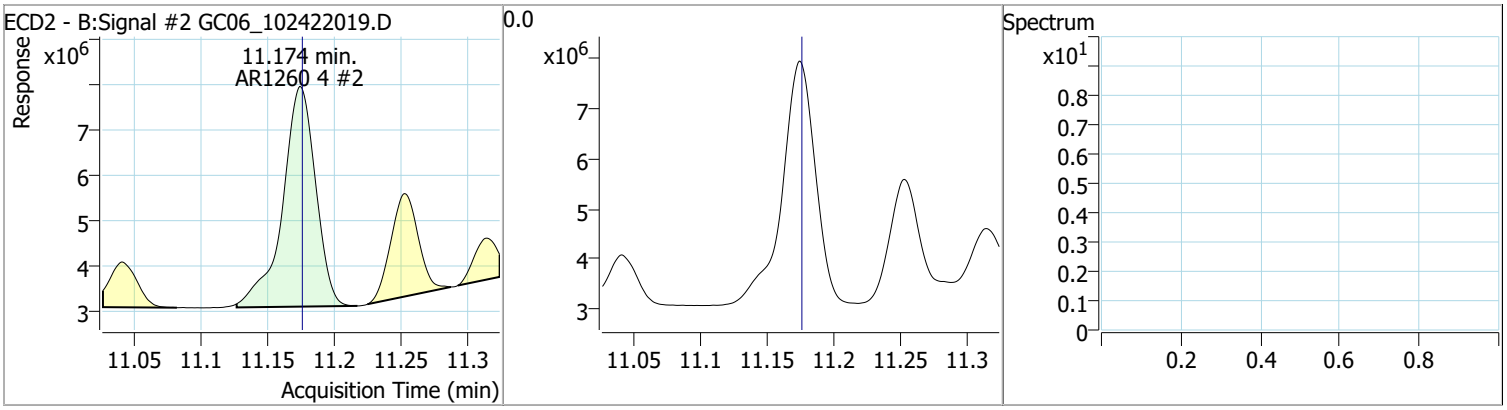
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	771.5470	10.58	0.00	4841911				



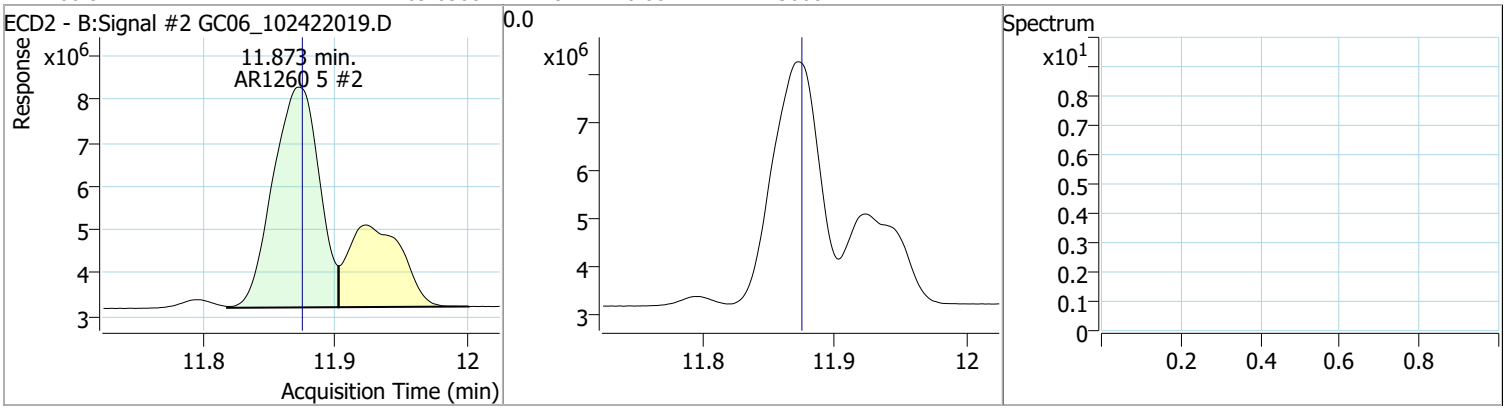
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	684.6327	10.76	0.00	12934062				



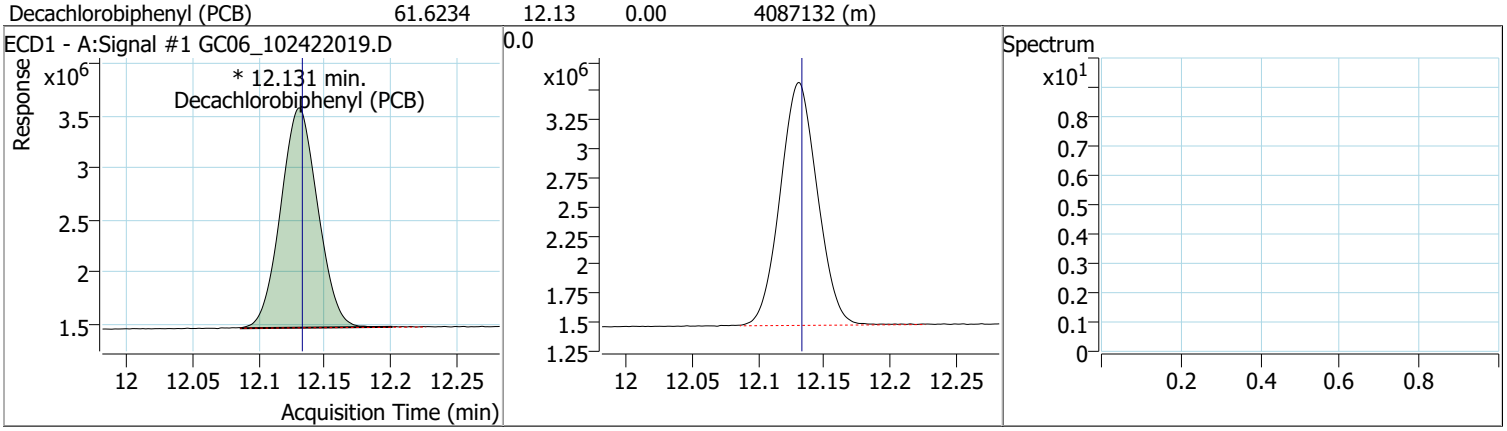
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	789.9076	11.17	0.00	8435664				



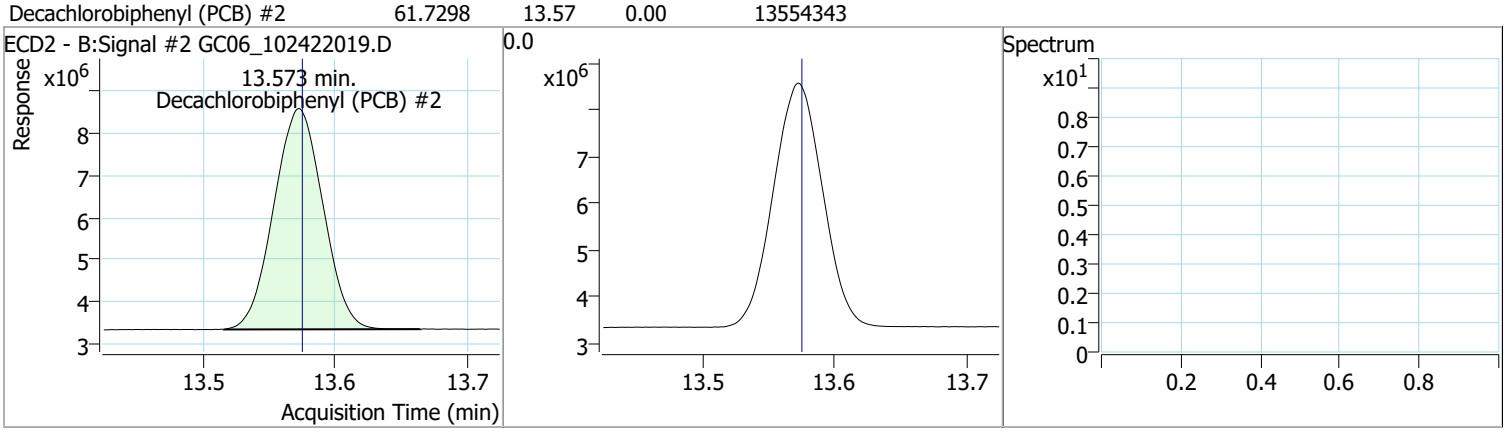
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	769.0388	11.87	0.00	12366844				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	61.6234	12.13	0.00	4087132 (m)				

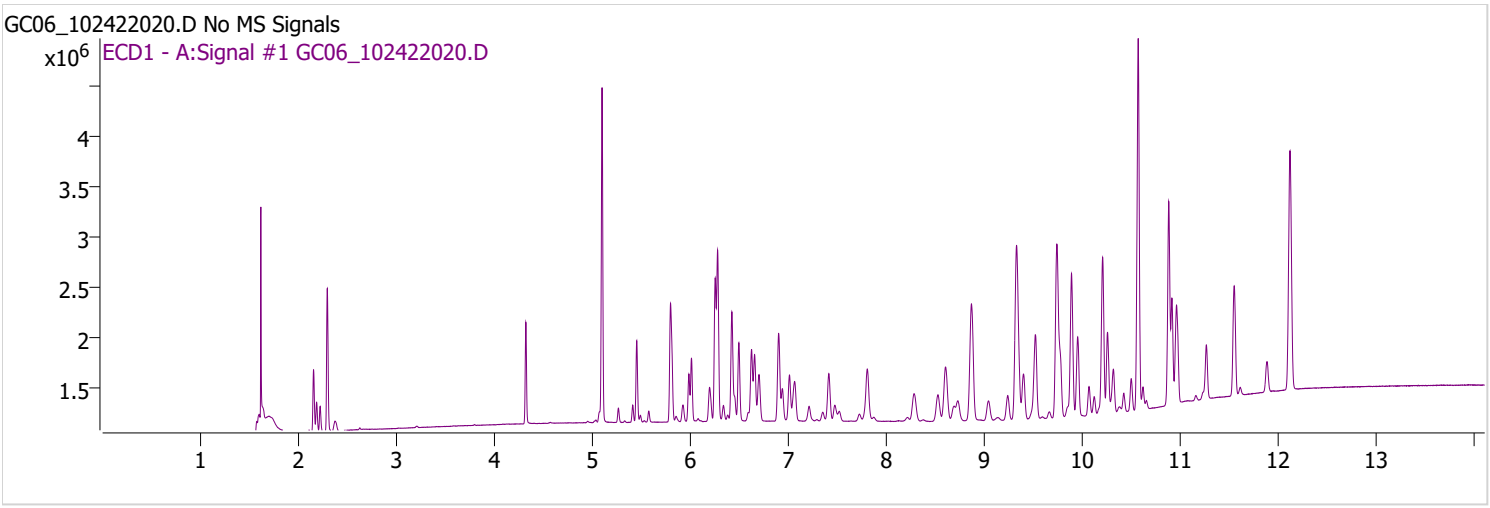


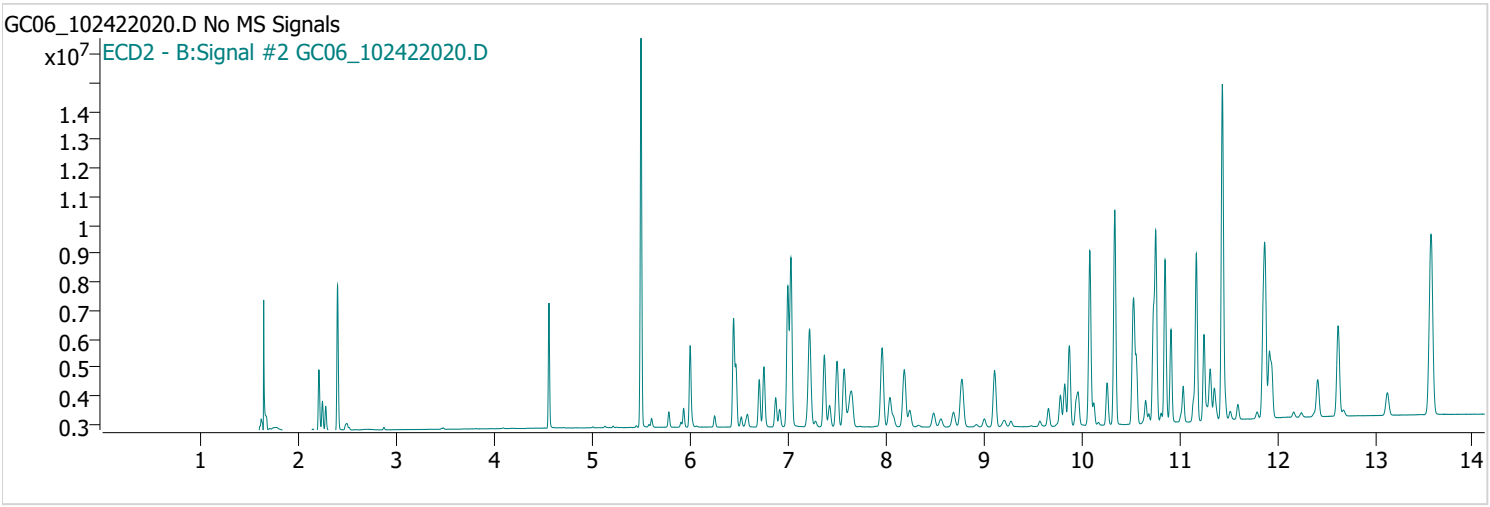
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	61.7298	13.57	0.00	13554343				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422020.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 7:13:45 PM
Sample Name	ICAL, S17269	Instrument	SVOA-GC06
Vial	17	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



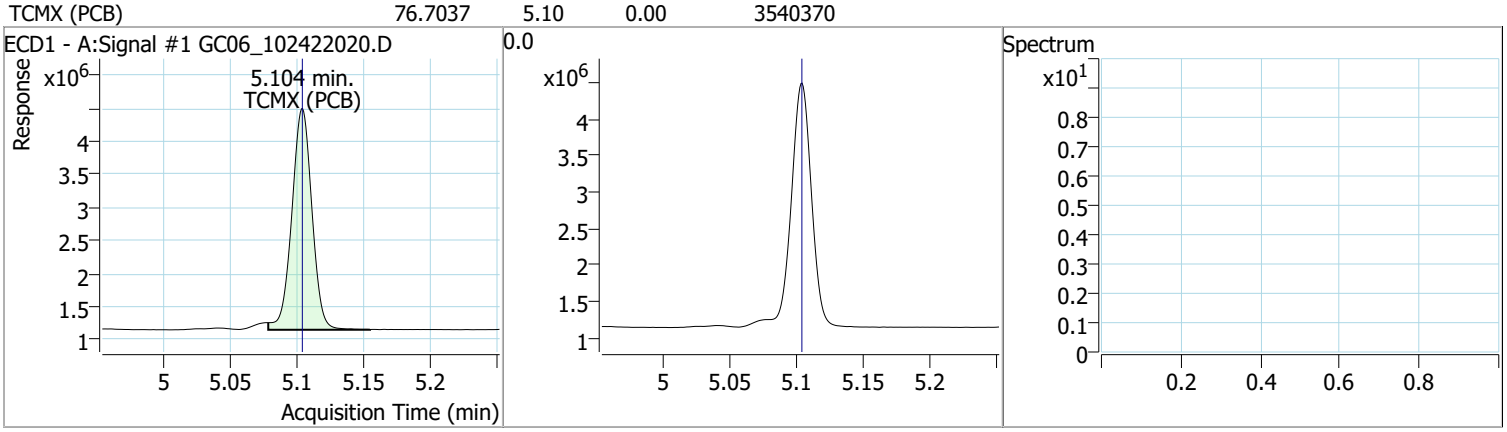


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	960028.285	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	3904924.024	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.104	0.0	3540369.739	76.7037	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 383.52%		*	
S TCMX (PCB) #2	5.502	0.0	14570076.912	77.6938	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 388.47%		*	
S Decachlorobiphenyl (PCB)	12.133	0.0	4873910.282	79.4415	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 397.21%		*	
S Decachlorobiphenyl (PCB) #2	13.574	0.0	16104085.280	78.9669	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 394.83%		*	
Target Compounds							**QValue**
T AR1016 1	5.458	0.0	943433.395	937.3214	ng/ml		100

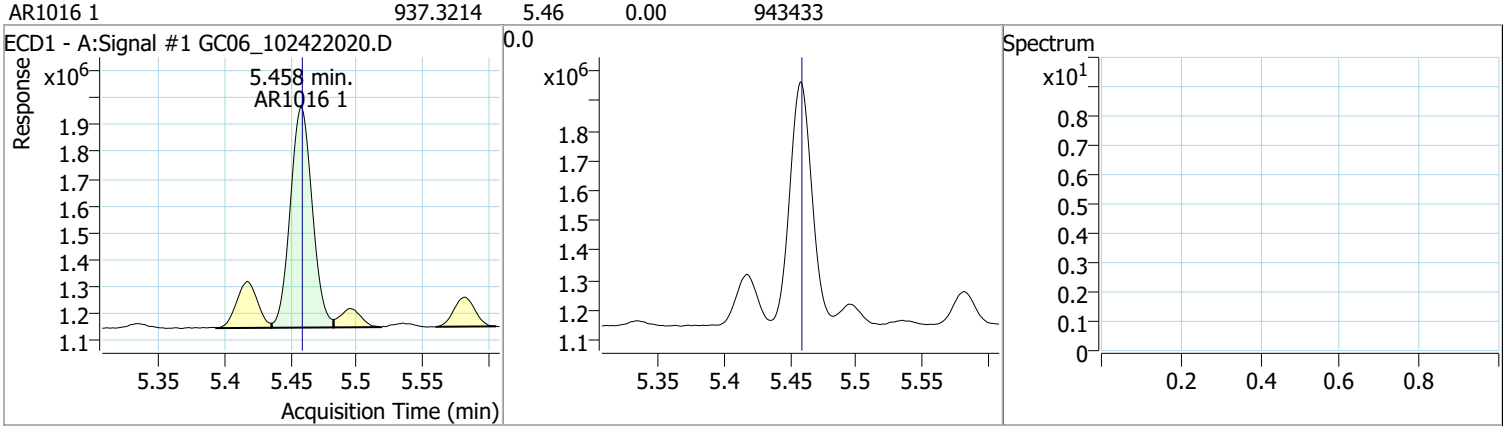
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 2	5.803	0.0	2010418.724	989.1606	ng/ml		100
T AR1016 1 #2	6.004	0.0	3878467.632	955.6472	ng/ml		100
T AR1016 3	6.284	0.0	2394397.764	938.2663	ng/ml		100
T AR1016 4	6.430	0.0	1827466.445	941.5536	ng/ml		100
T AR1016 2 #2	6.448	0.0	5500389.069	938.8589	ng/ml	m	100
T AR1016 5	6.908	0.0	1470872.987	940.8682	ng/ml		100
T AR1016 3 #2	7.034	0.0	9872562.438	927.4276	ng/ml		100
T AR1016 4 #2	7.224	0.0	7222770.660	950.4102	ng/ml		100
T AR1016 5 #2	7.966	0.0	5894671.400	954.2439	ng/ml		100
T AR1260 1	8.878	0.0	2877985.945	886.6594	ng/ml		100
T AR1260 2	9.338	0.0	4300287.117	869.2209	ng/ml		100
T AR1260 3	9.751	0.0	4585617.535	886.7956	ng/ml		100
T AR1260 1 #2	10.088	0.0	10289089.324	885.3872	ng/ml		100
T AR1260 4	10.218	0.0	2742861.102	988.8343	ng/ml		100
T AR1260 2 #2	10.343	0.0	12199337.627	873.6965	ng/ml		100
T AR1260 5	10.582	0.0	5817456.745	992.4576	ng/ml		100
T AR1260 3 #2	10.761	0.0	15563112.957	880.5672	ng/ml		100
T AR1260 4 #2	11.176	0.0	9679021.093	974.1517	ng/ml		100
T AR1260 5 #2	11.874	0.0	14837736.104	991.5511	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

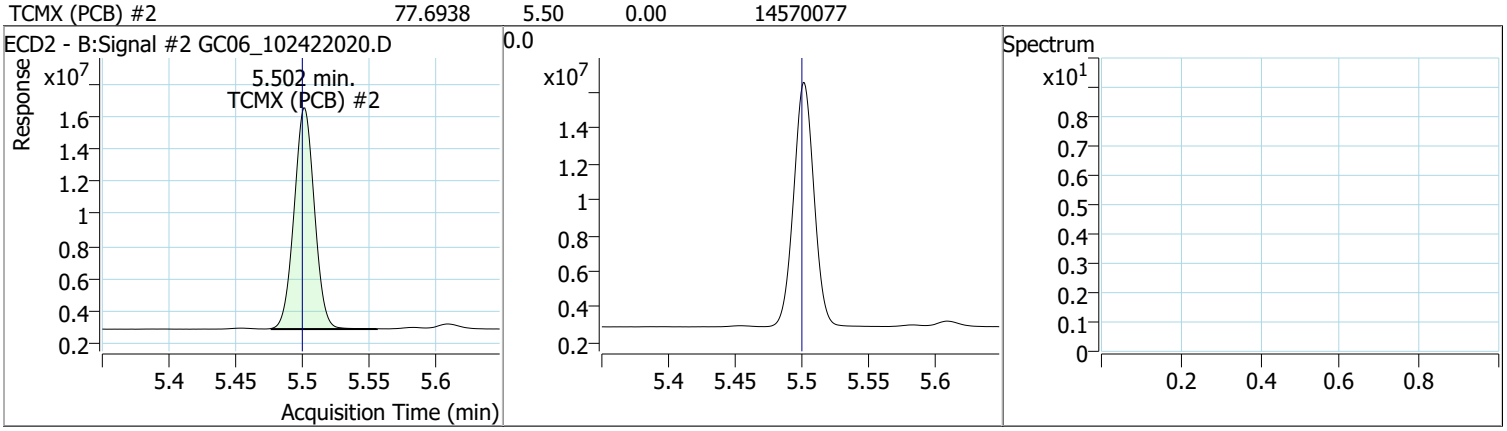
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	76.7037	5.10	0.00	3540370				



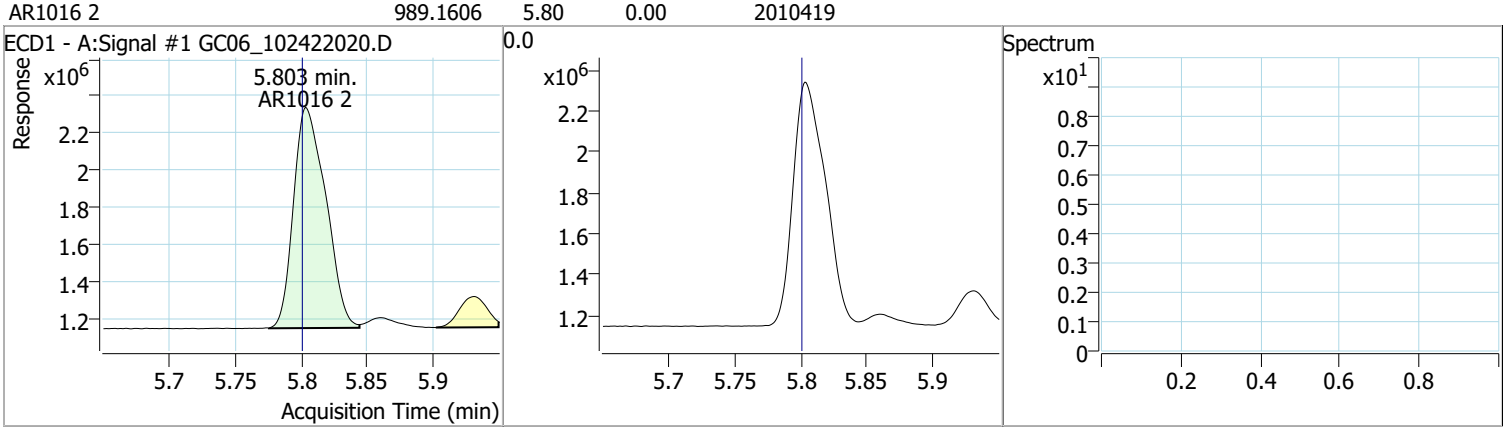
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	937.3214	5.46	0.00	943433				



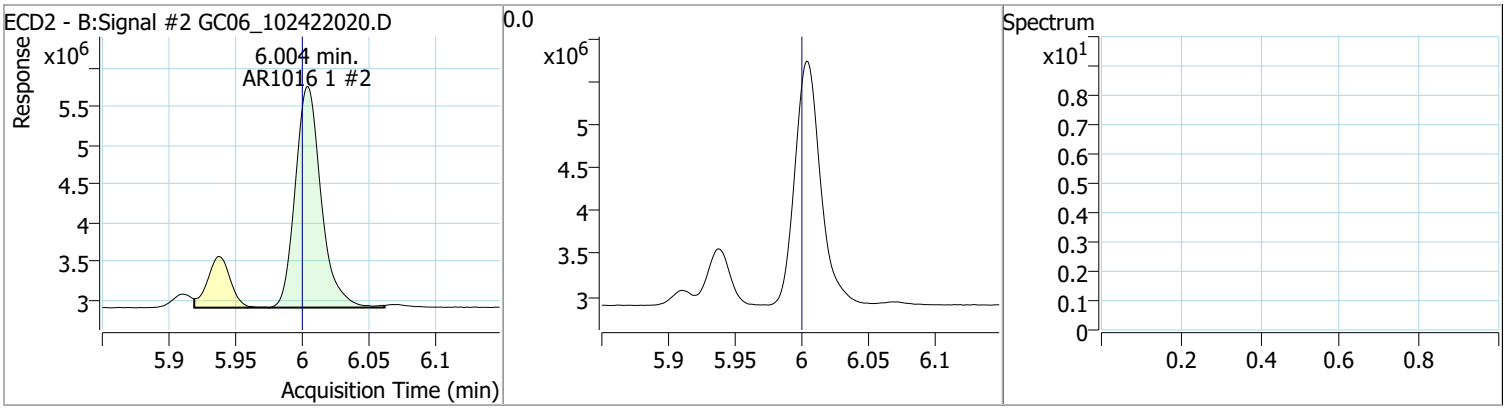
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TCMX (PCB) #2	77.6938	5.50	0.00	14570077				



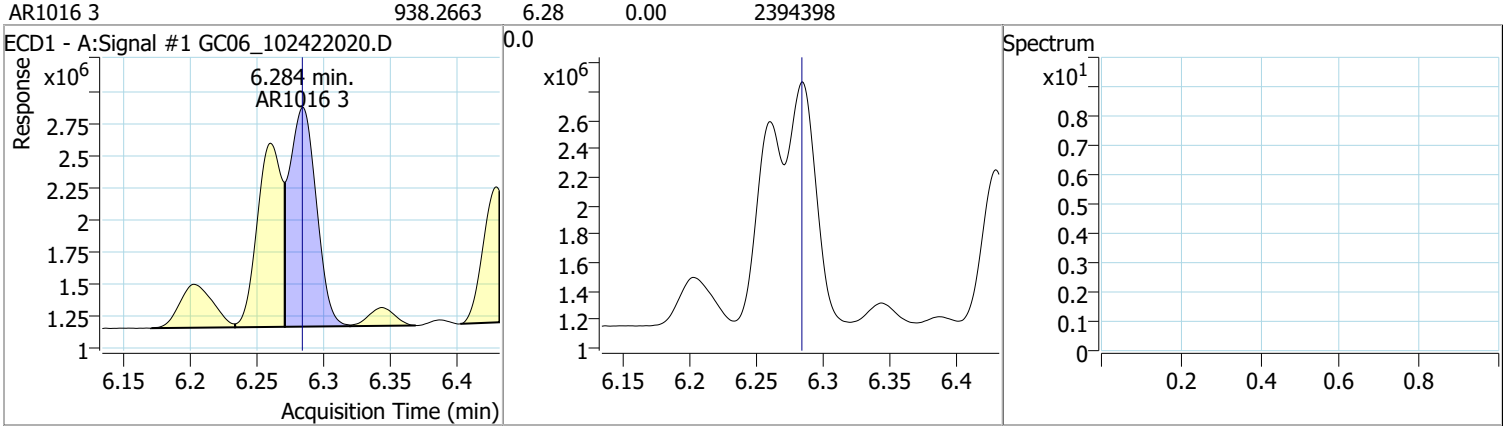
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	989.1606	5.80	0.00	2010419				



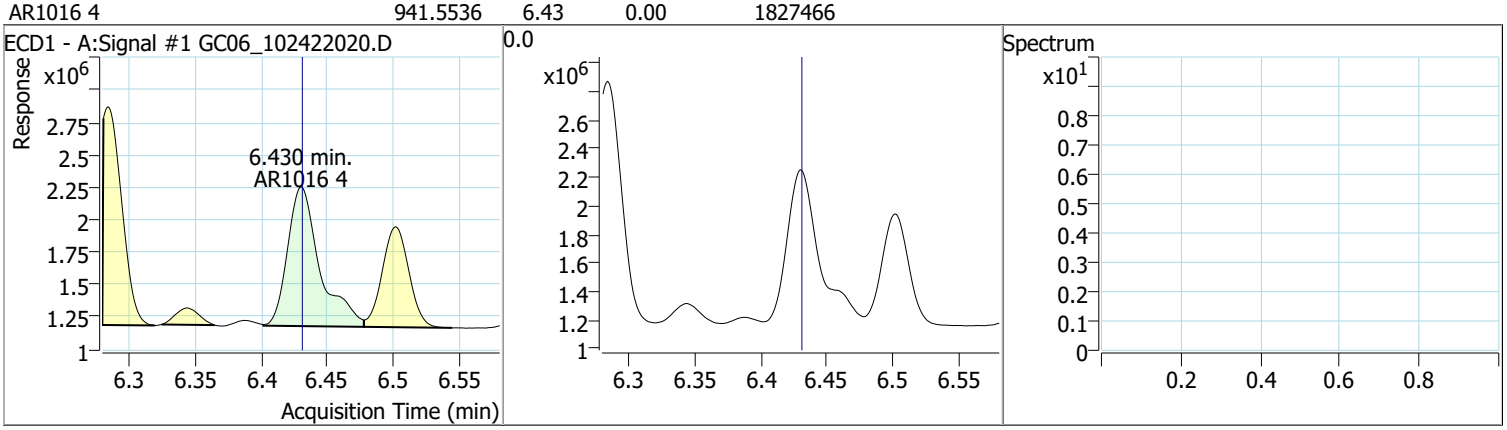
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	955.6472	6.00	0.00	3878468				



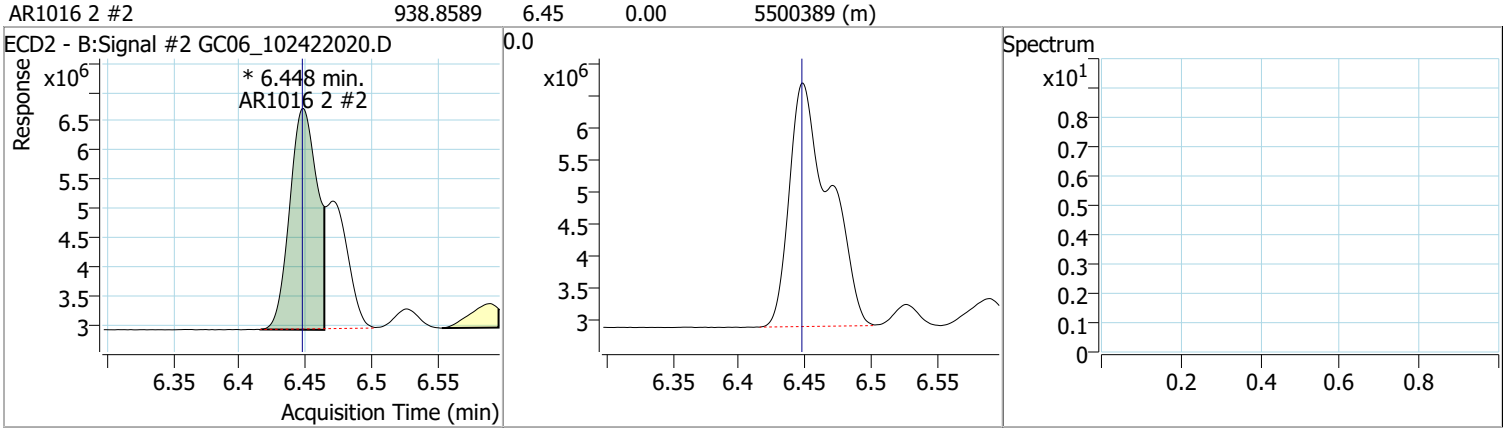
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	938.2663	6.28	0.00	2394398				



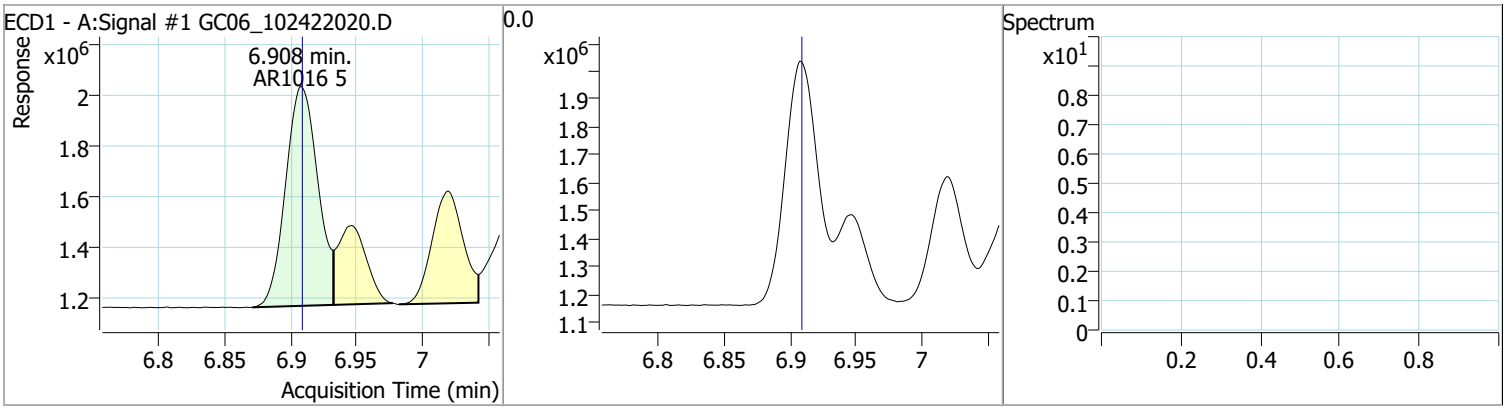
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	941.5536	6.43	0.00	1827466				



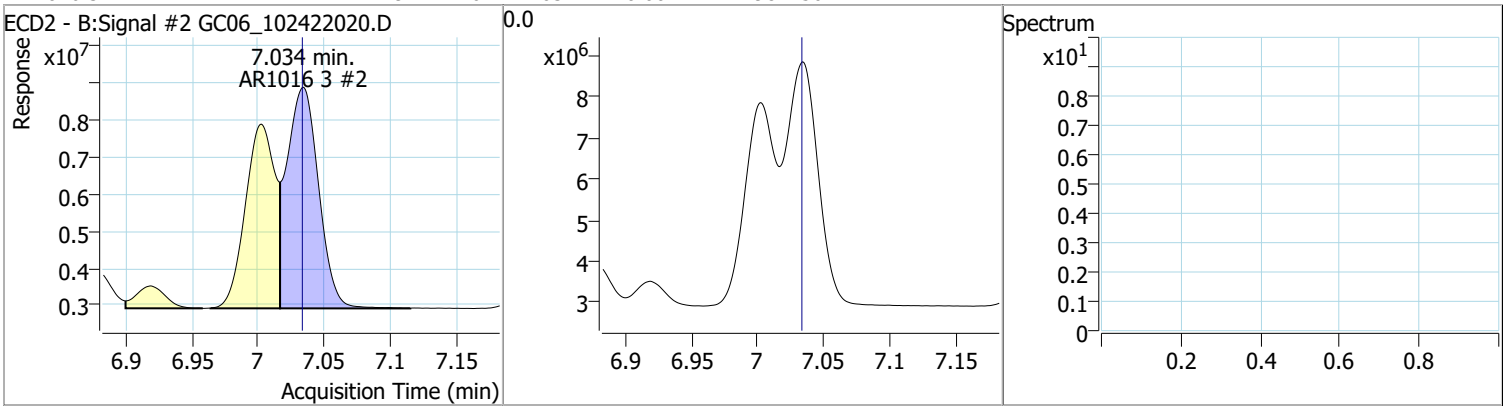
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AR1016 2 #2	938.8589	6.45	0.00	5500389 (m)				



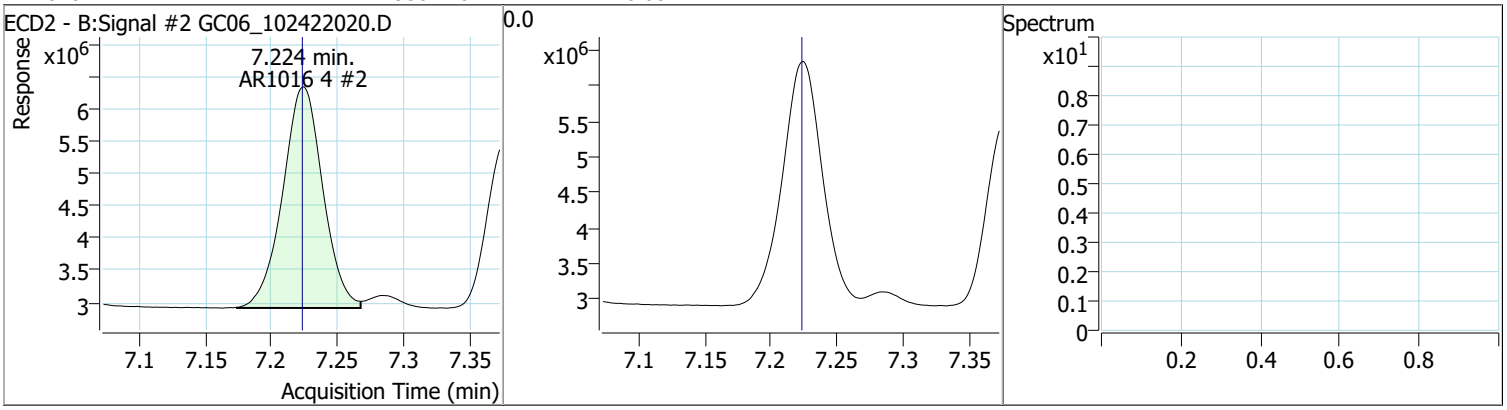
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	940.8682	6.91	0.00	1470873				



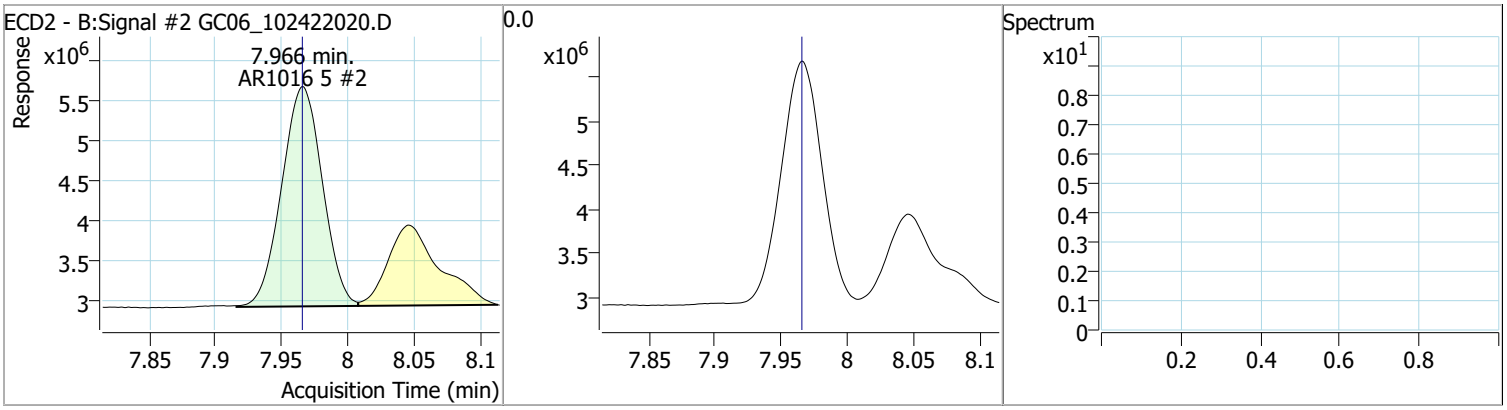
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AR1016 3 #2	927.4276	7.03	0.00	9872562				



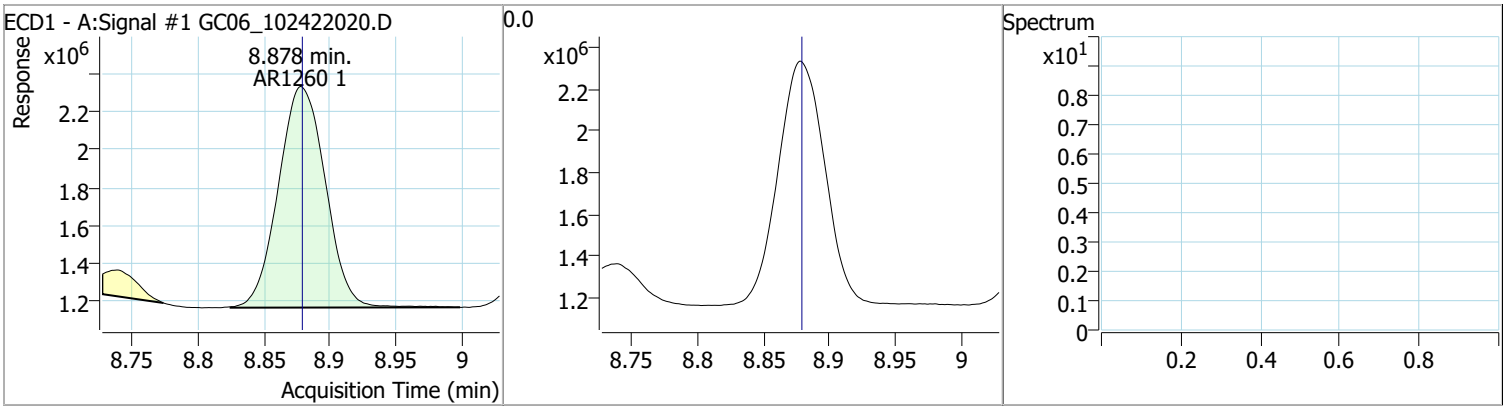
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	950.4102	7.22	0.00	7222771				



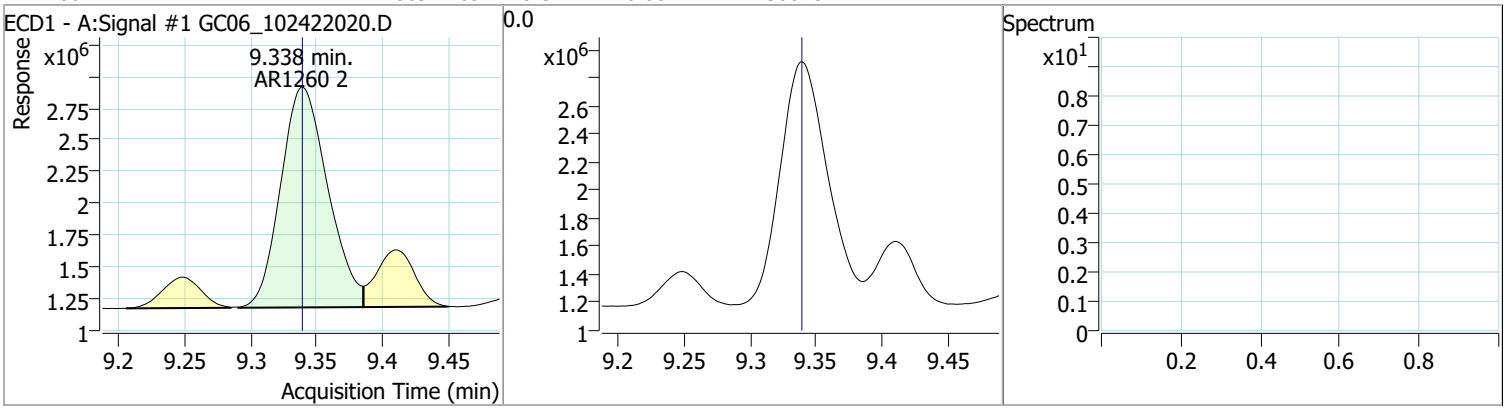
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AR1016 5 #2	954.2439	7.97	0.00	5894671				



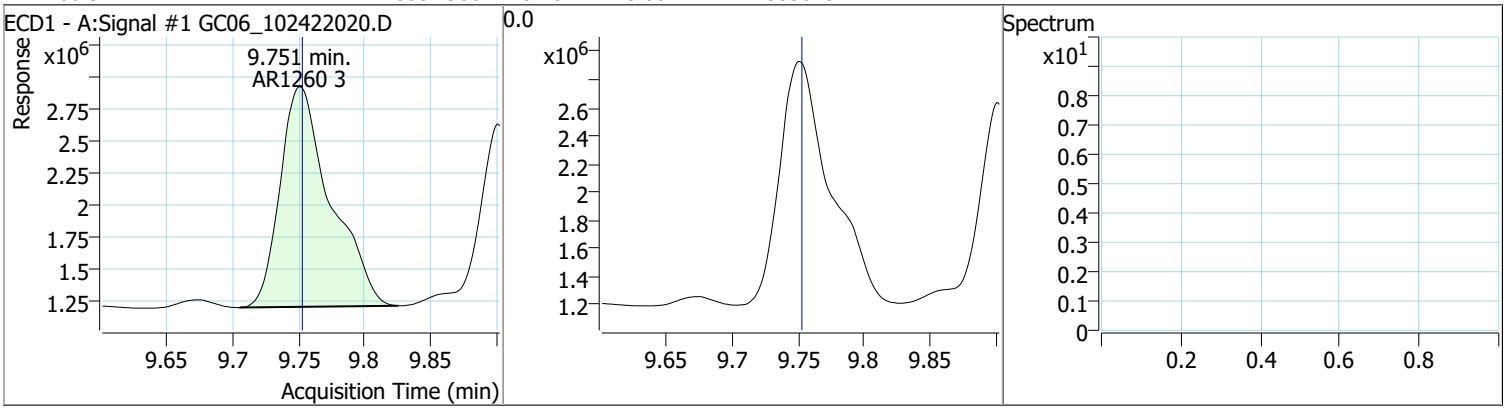
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	886.6594	8.88	0.00	2877986				



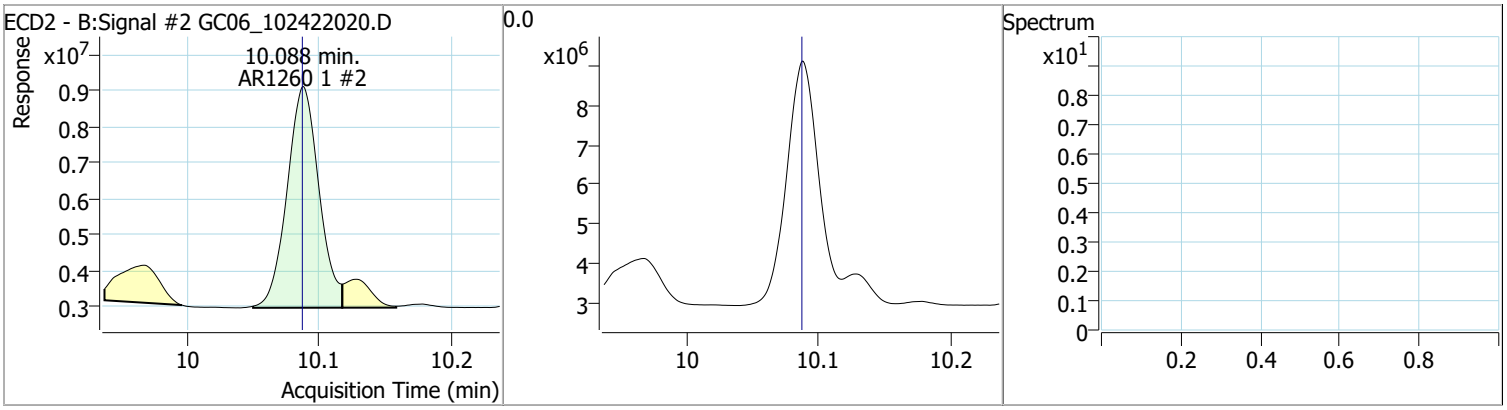
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	869.2209	9.34	0.00	4300287				



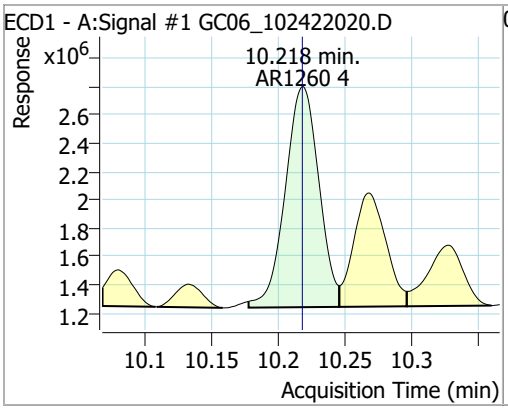
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	886.7956	9.75	0.00	4585618				

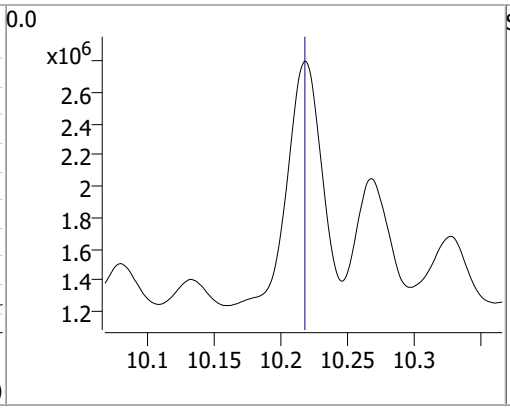


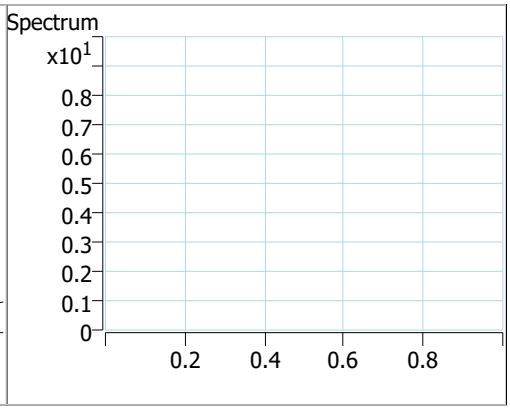
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	885.3872	10.09	0.00	10289089				



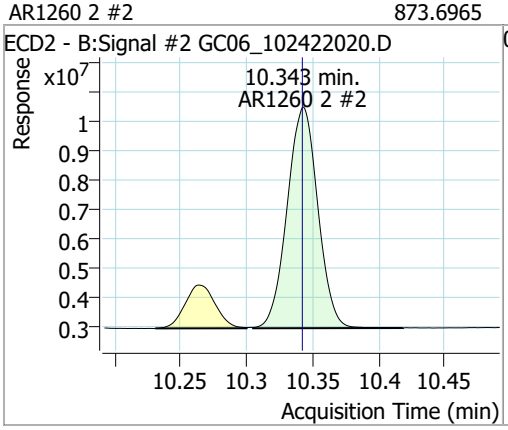
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	988.8343	10.22	0.00	2742861				

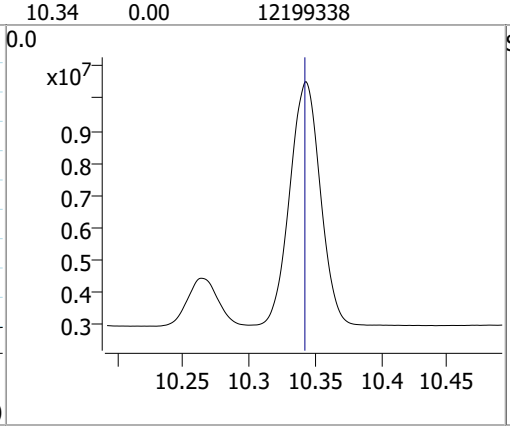


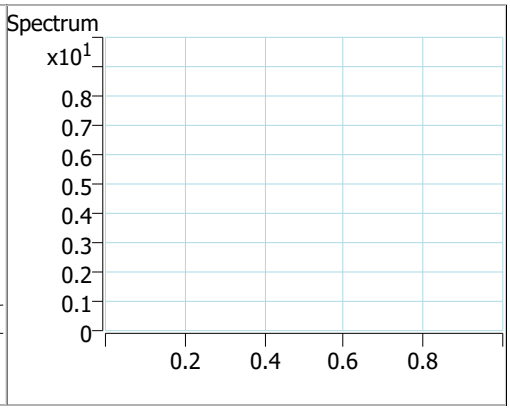




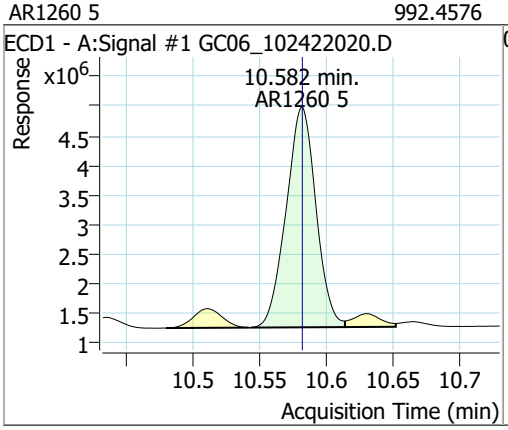
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	873.6965	10.34	0.00	12199338				

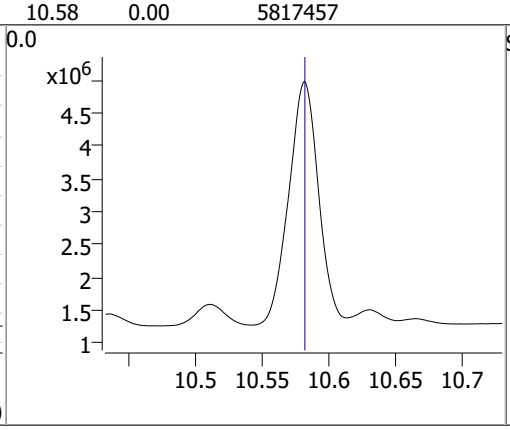


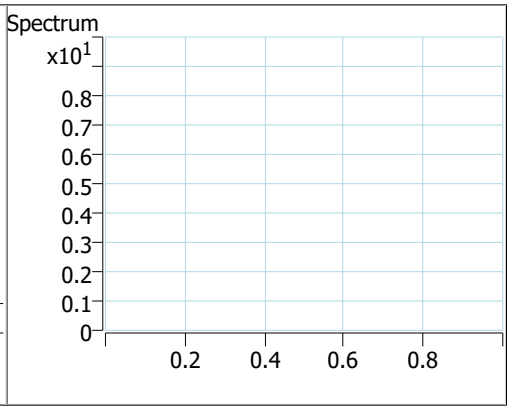




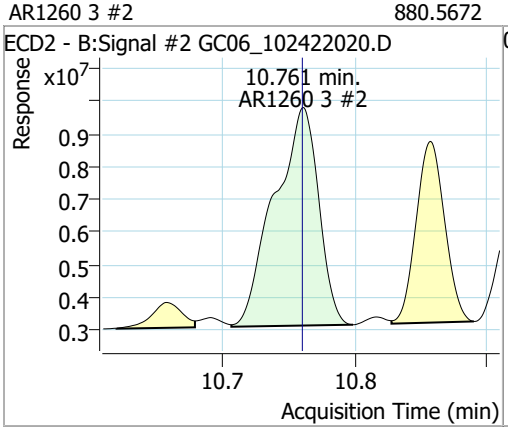
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	992.4576	10.58	0.00	5817457				

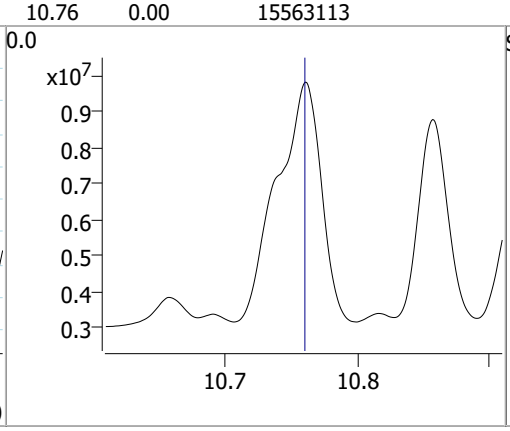


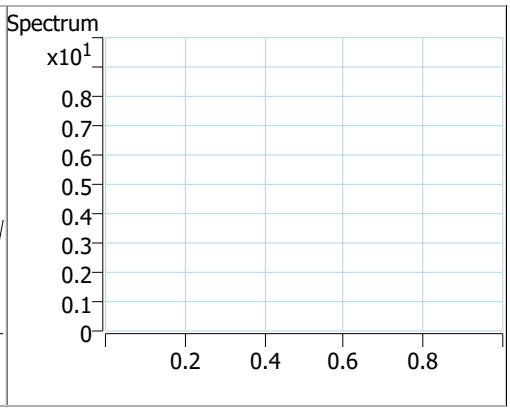




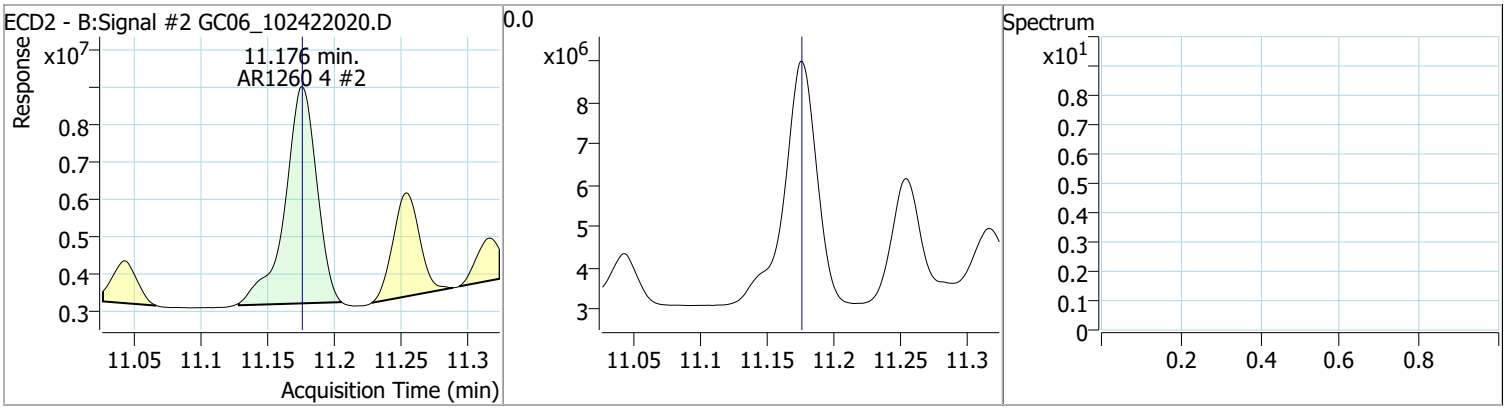
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	880.5672	10.76	0.00	15563113				



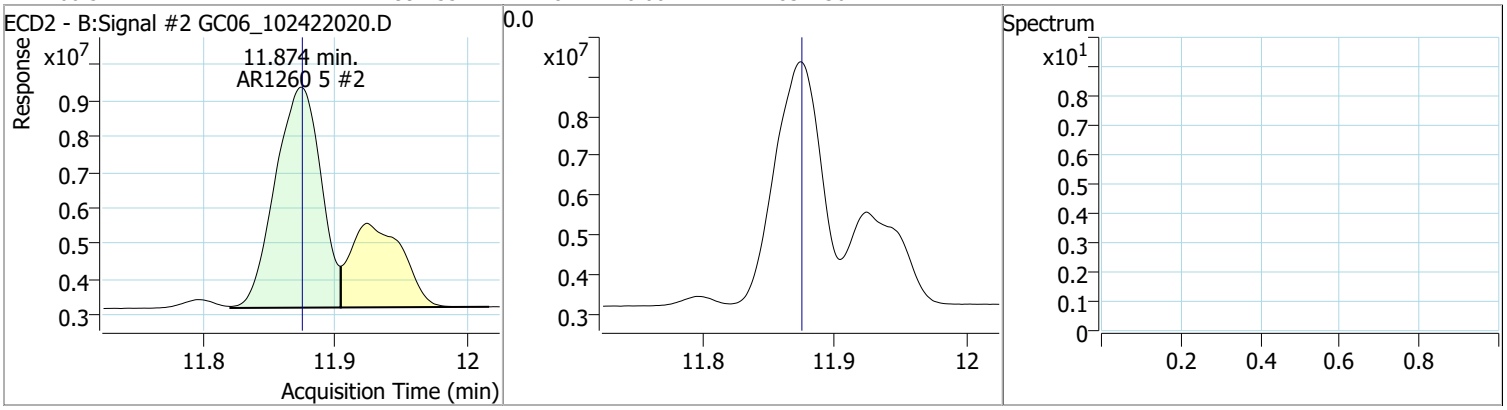




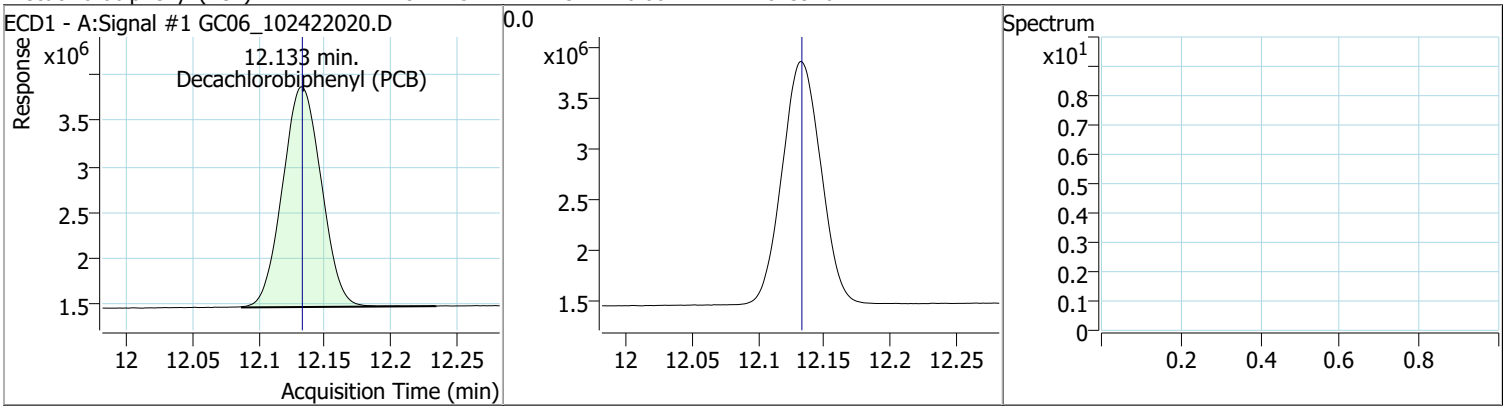
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	974.1517	11.18	0.00	9679021				



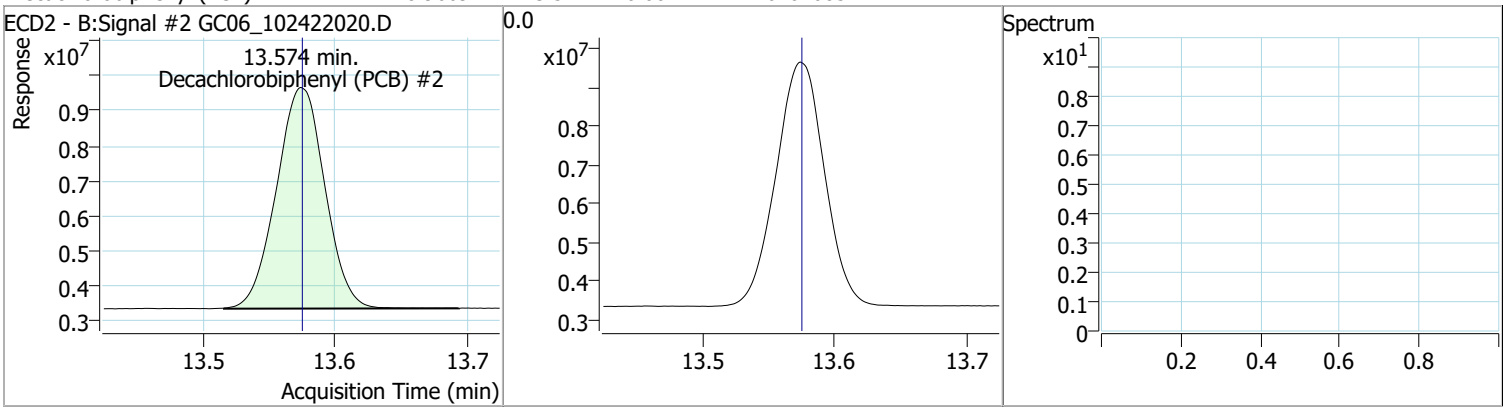
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	991.5511	11.87	0.00	14837736				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	79.4415	12.13	0.00	4873910				

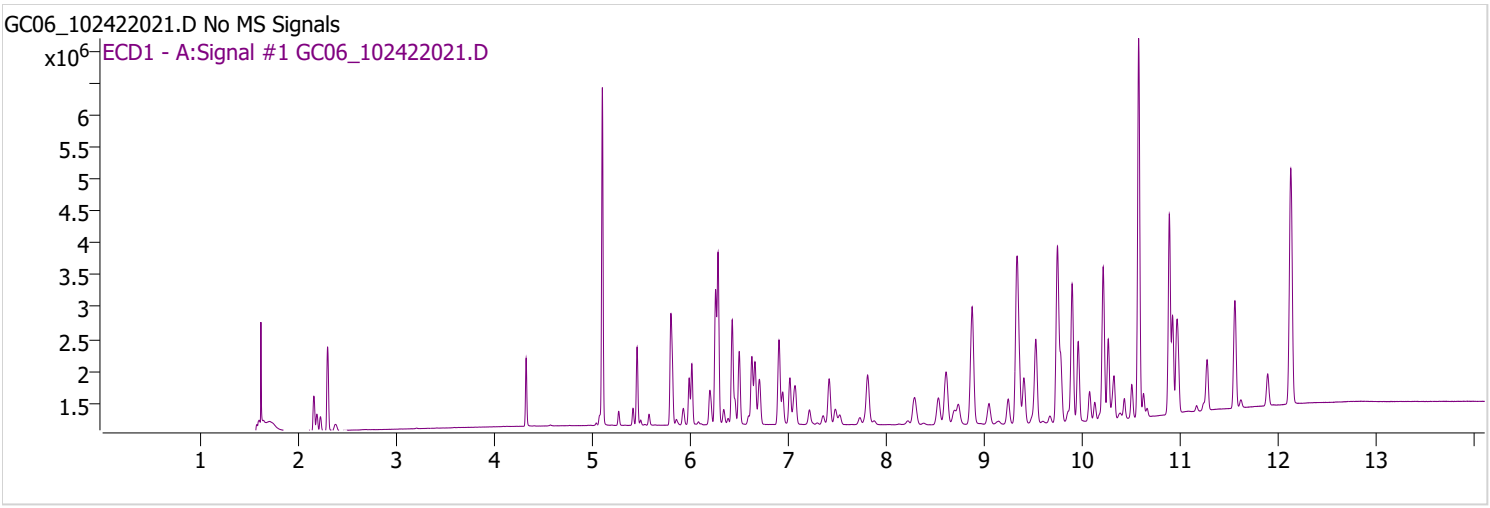


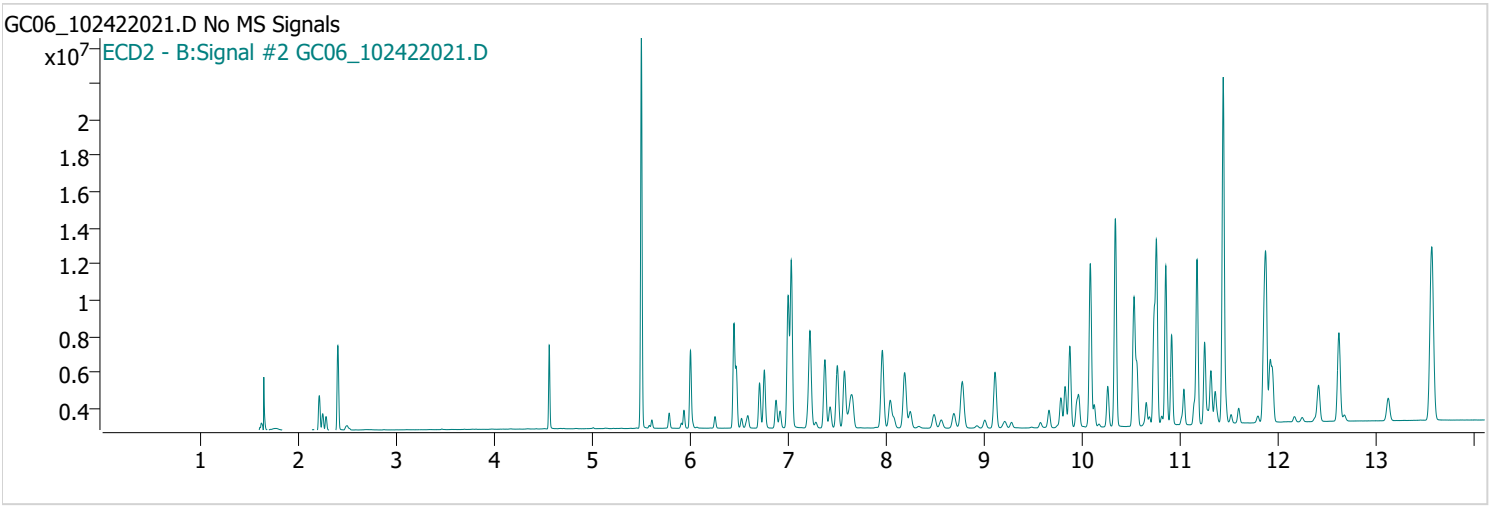
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	78.9669	13.57	0.00	16104085				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422021.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 7:31:42 PM
Sample Name	ICAL, S17270	Instrument	SVOA-GC06
Vial	18	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



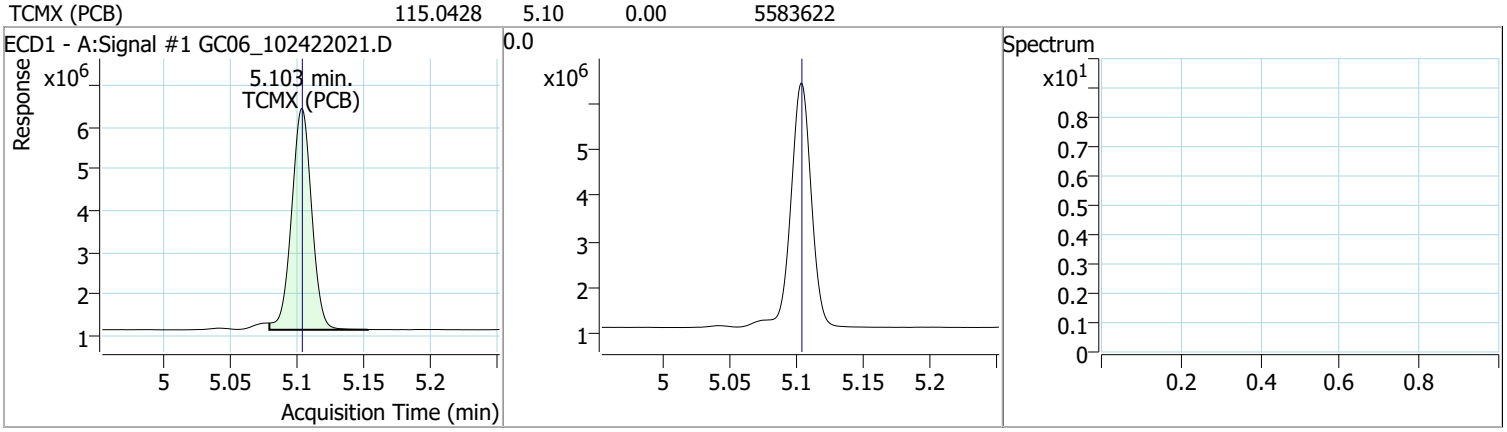


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1009505.147	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.561	0.0	4057066.575	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	5583622.088	115.0428	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 575.21%		*	
S TCMX (PCB) #2	5.502	0.0	23031168.075	118.2063	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 591.03%		*	
S Decachlorobiphenyl (PCB)	12.134	0.0	7593776.012	119.7892	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 598.95%		*	
S Decachlorobiphenyl (PCB) #2	13.573	0.0	25131513.397	119.6729	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 598.36%		*	
Target Compounds							QValue

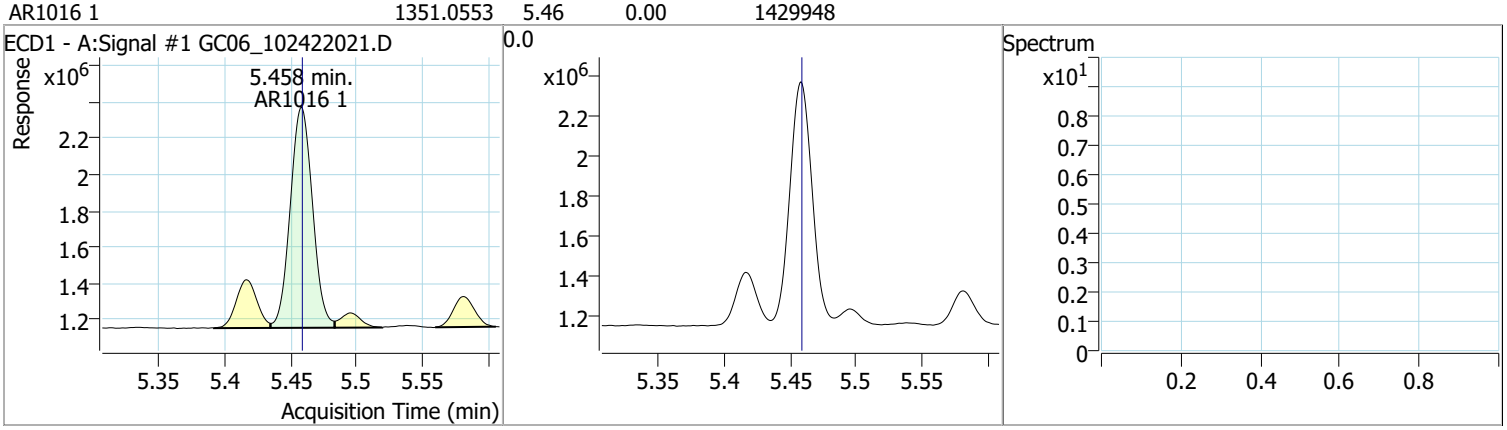
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.458	0.0	1429948.327	1351.0553	ng/ml		100
T AR1016 2	5.804	0.0	3030710.898	1424.7519	ng/ml		100
T AR1016 1 #2	6.003	0.0	5721647.171	1356.9347	ng/ml		100
T AR1016 3	6.285	0.0	3611169.947	1345.7155	ng/ml		100
T AR1016 4	6.430	0.0	2777407.544	1360.8515	ng/ml		100
T AR1016 2 #2	6.448	0.0	8221820.088	1350.7511	ng/ml	m	100
T AR1016 5	6.908	0.0	2242691.834	1364.2649	ng/ml		100
T AR1016 3 #2	7.033	0.0	15343105.691	1387.2792	ng/ml		100
T AR1016 4 #2	7.223	0.0	11004271.290	1393.6991	ng/ml		100
T AR1016 5 #2	7.963	0.0	9009188.371	1403.7375	ng/ml		100
T AR1260 1	8.880	0.0	4266432.480	1249.9957	ng/ml		100
T AR1260 2	9.339	0.0	6538469.983	1256.8526	ng/ml		100
T AR1260 3	9.751	0.0	7045185.682	1295.6677	ng/ml		100
T AR1260 1 #2	10.087	0.0	15645489.933	1295.8237	ng/ml		100
T AR1260 4	10.218	0.0	4208394.379	1449.9072	ng/ml		100
T AR1260 2 #2	10.343	0.0	18653948.726	1285.8656	ng/ml		100
T AR1260 5	10.580	0.0	9185947.111	1499.3950	ng/ml		100
T AR1260 3 #2	10.761	0.0	24133856.541	1314.2961	ng/ml		100
T AR1260 4 #2	11.177	0.0	14547609.435	1419.8121	ng/ml		100
T AR1260 5 #2	11.876	0.0	23188941.135	1500.9271	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

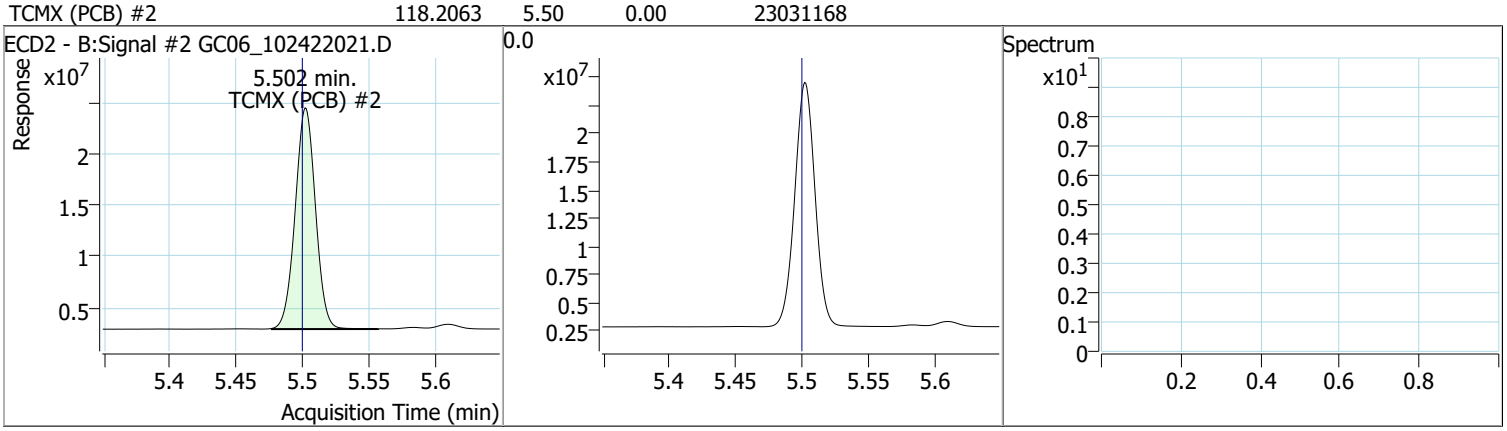
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	115.0428	5.10	0.00	5583622				



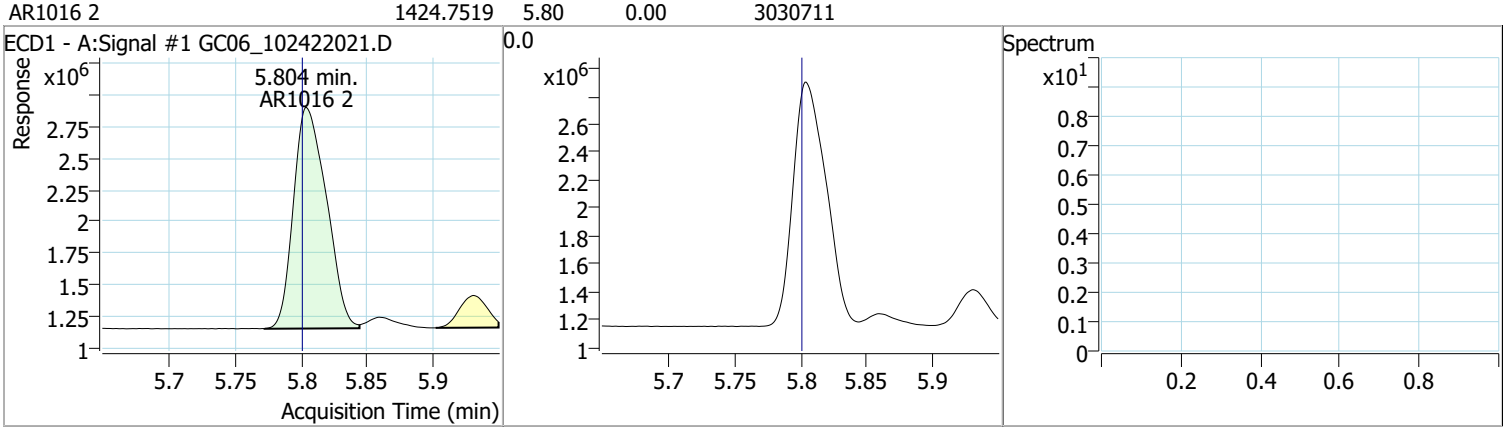
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	1351.0553	5.46	0.00	1429948				



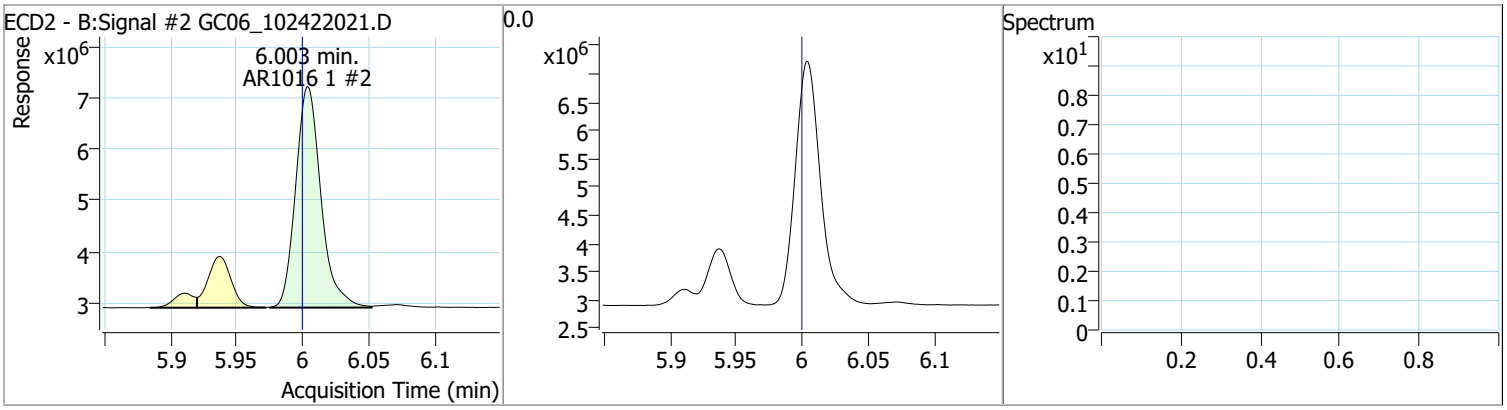
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	118.2063	5.50	0.00	23031168				



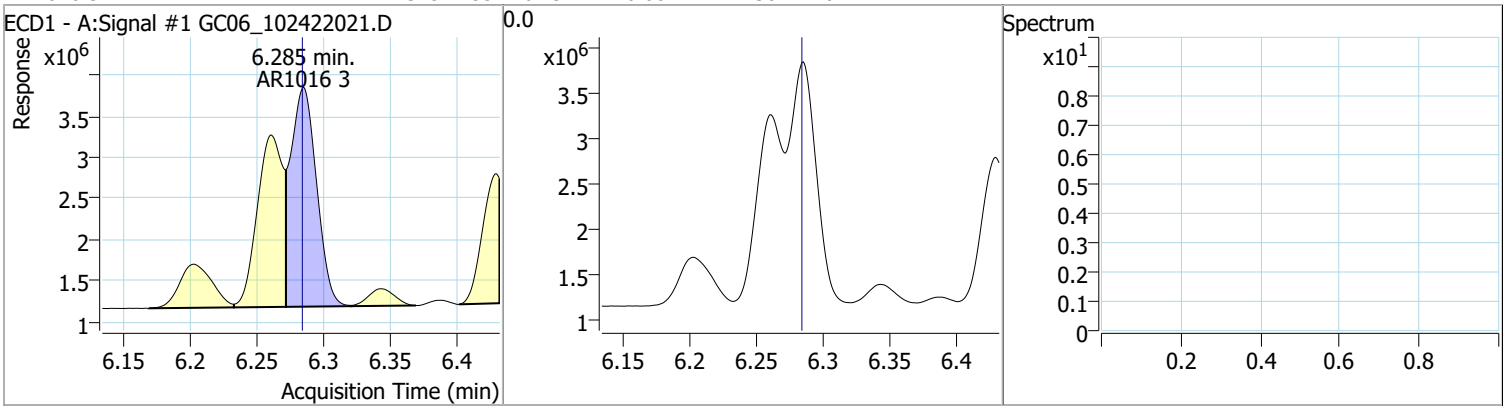
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	1424.7519	5.80	0.00	3030711				



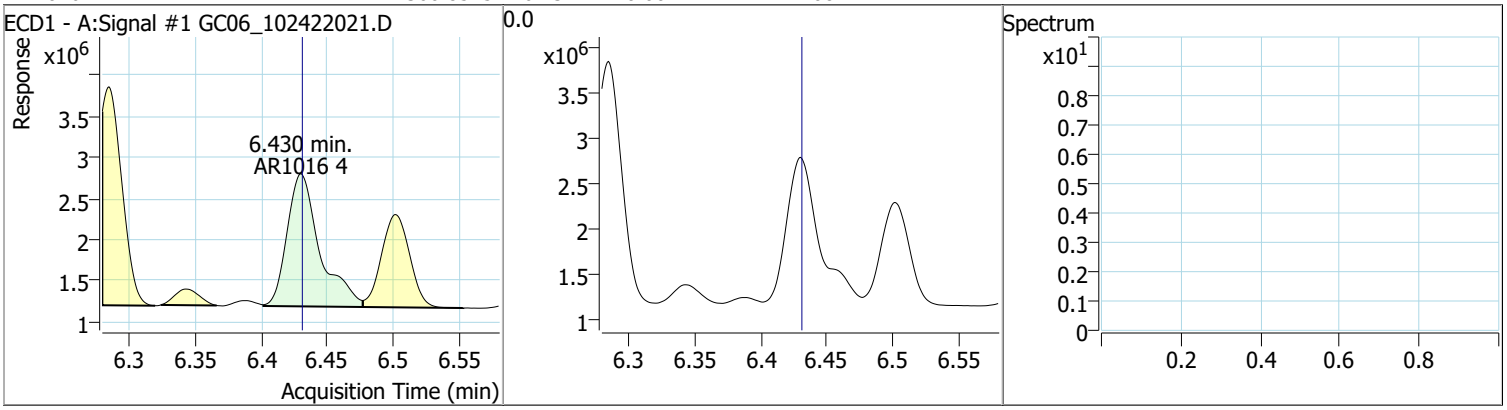
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1356.9347	6.00	0.00	5721647				



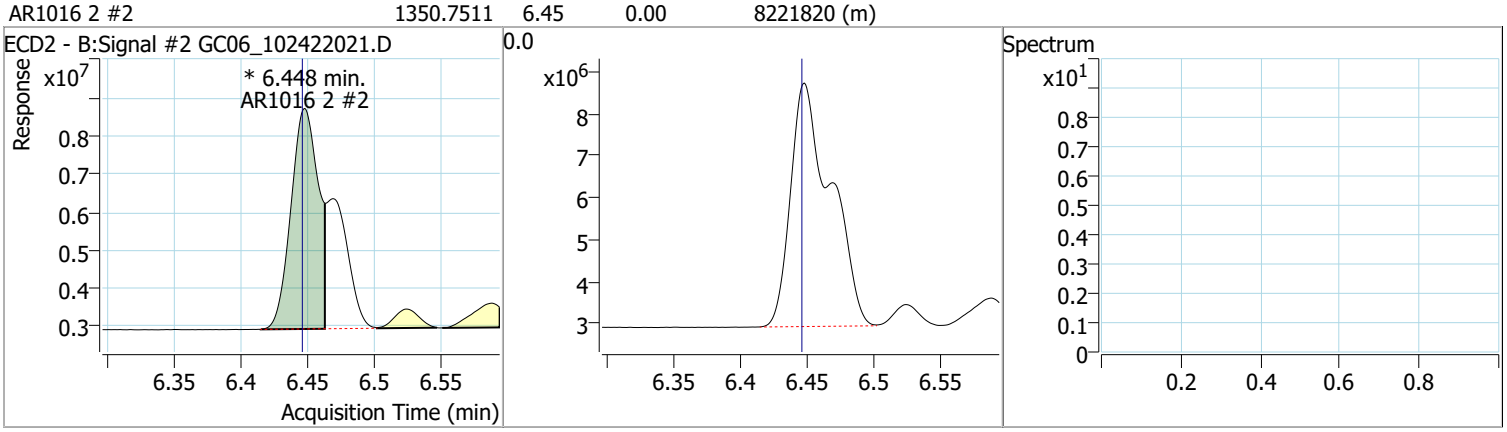
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AR1016 3	1345.7155	6.29	0.00	3611170				



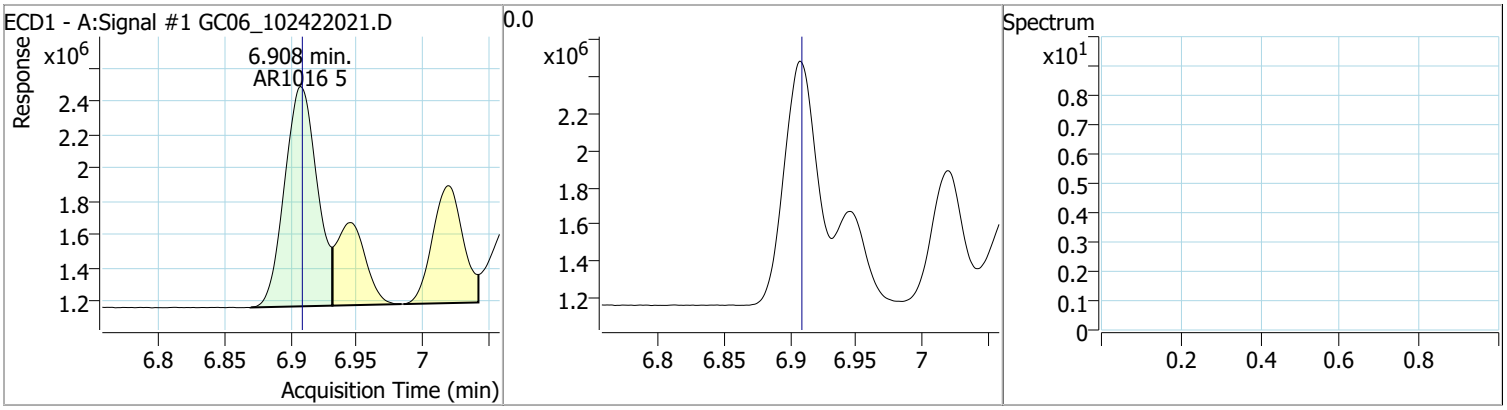
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1360.8515	6.43	0.00	2777408				



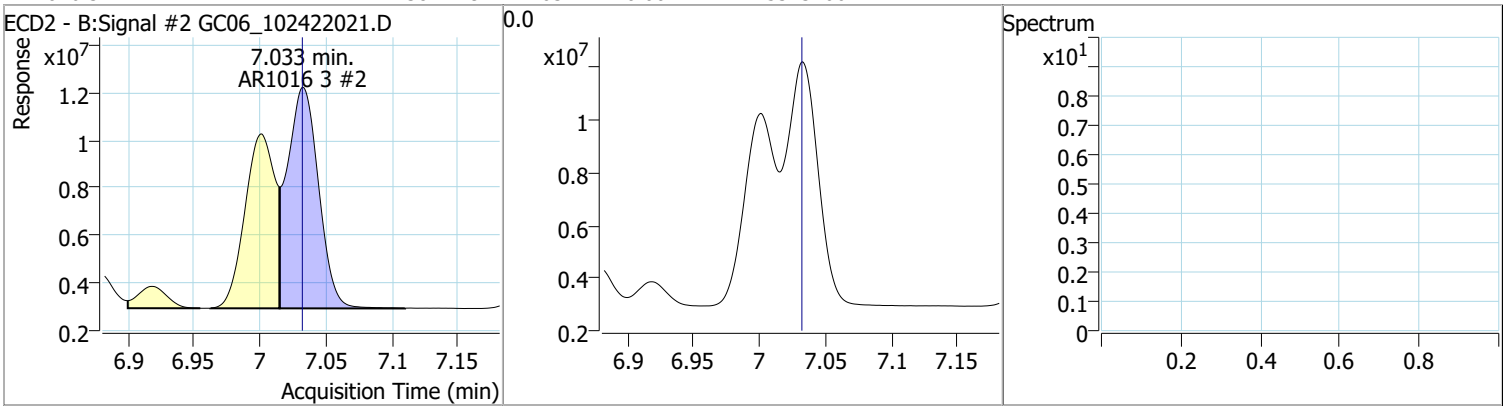
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AR1016 2 #2	1350.7511	6.45	0.00	8221820 (m)				



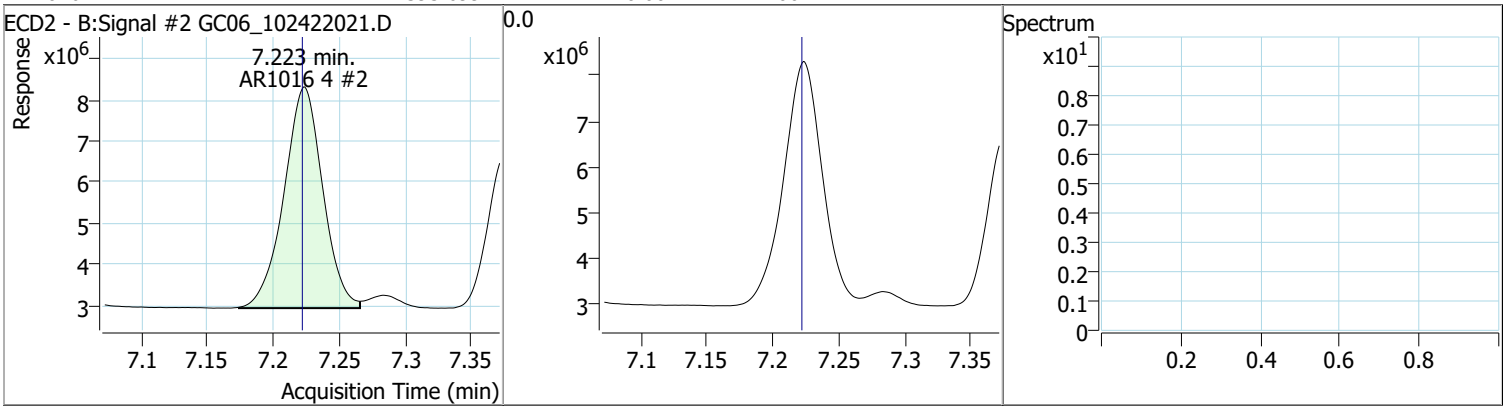
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AR1016 5	1364.2649	6.91	0.00	2242692				



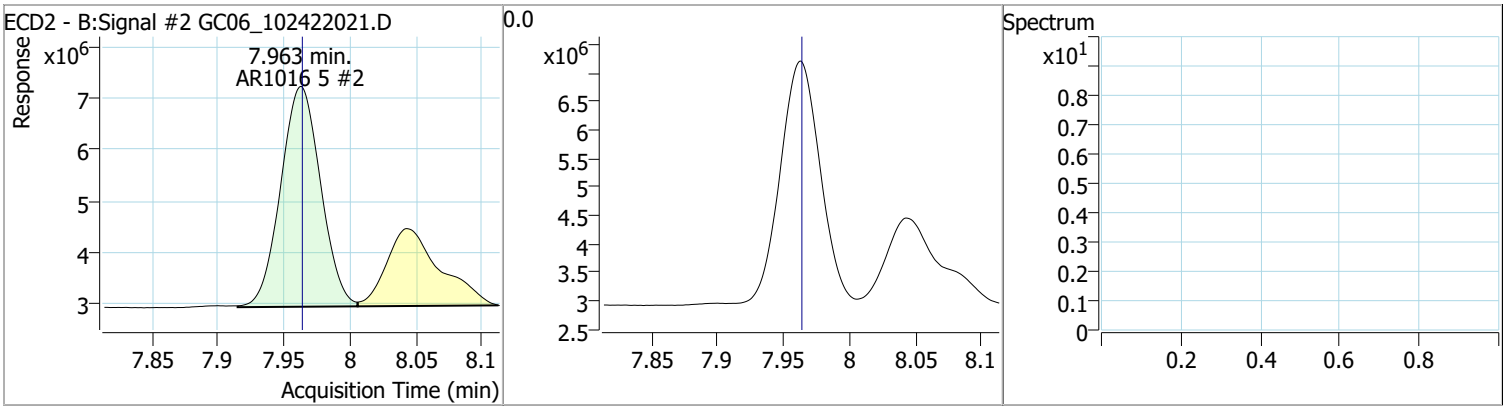
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	1387.2792	7.03	0.00	15343106				



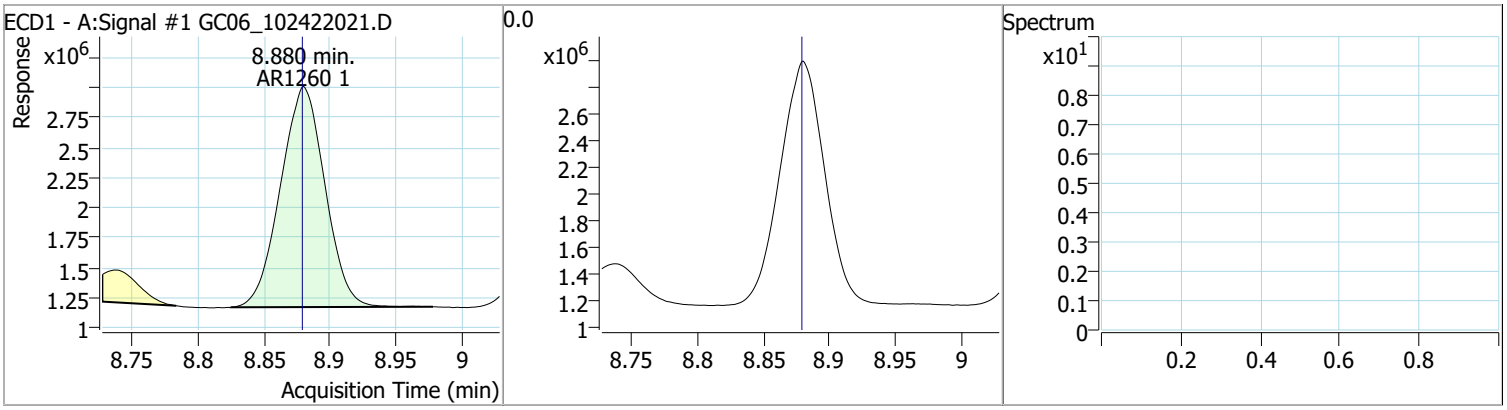
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AR1016 4 #2	1393.6991	7.22	0.00	11004271				



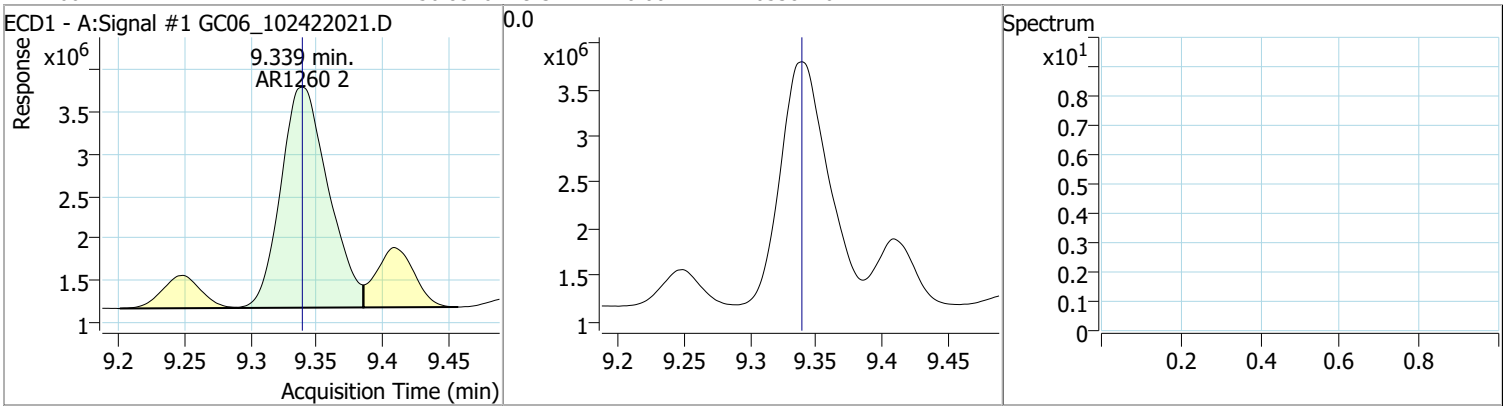
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AR1016 5 #2	1403.7375	7.96	0.00	9009188				



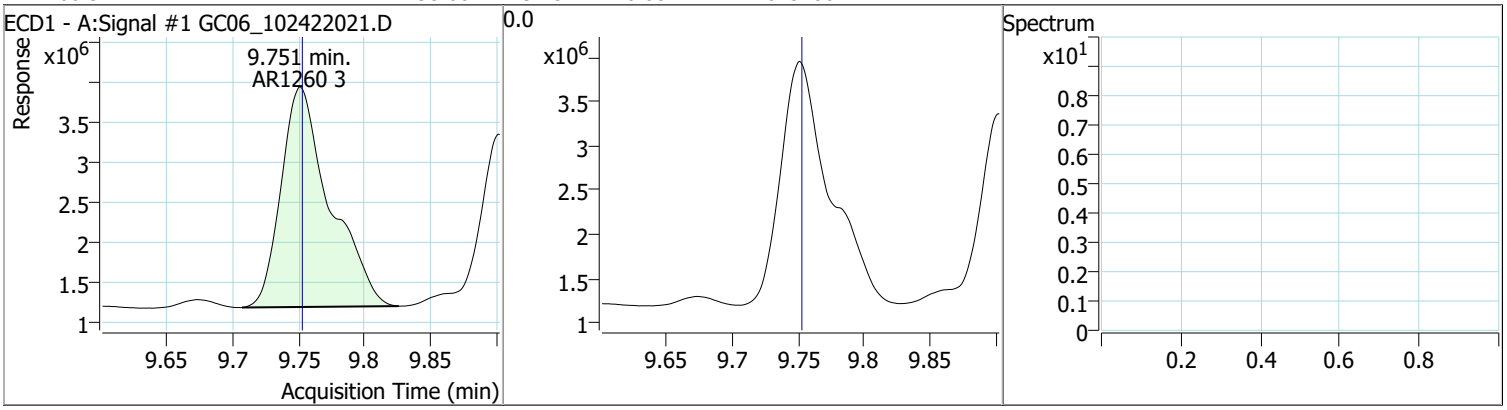
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1249.9957	8.88	0.00	4266432				



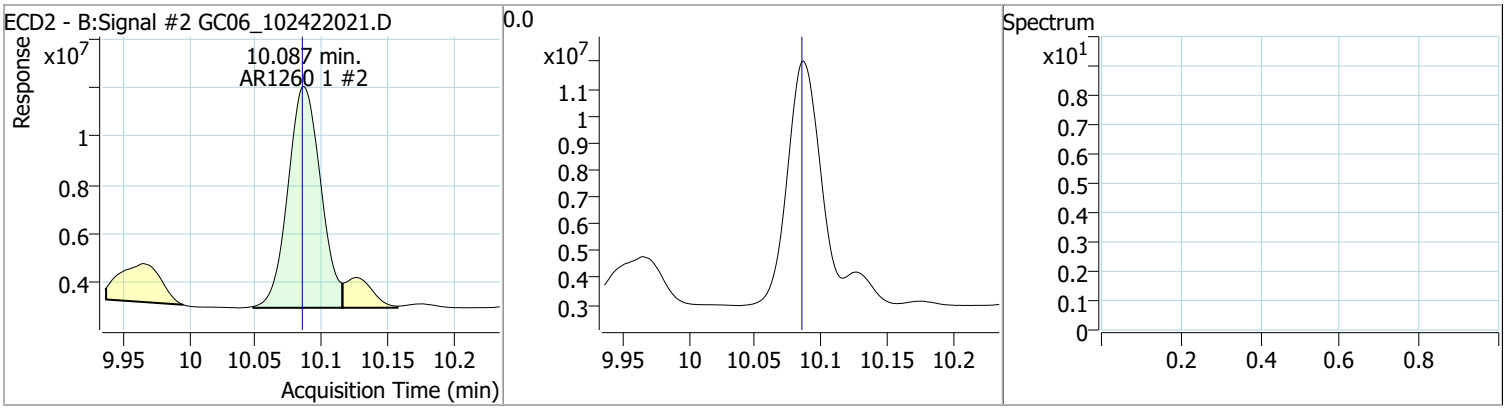
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1256.8526	9.34	0.00	6538470				



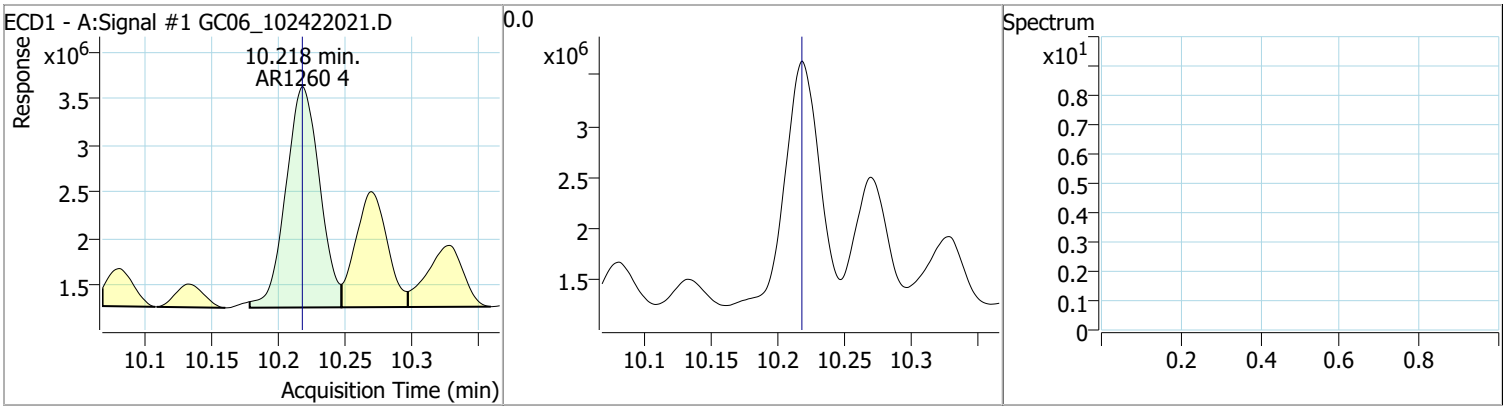
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	1295.6677	9.75	0.00	7045186				



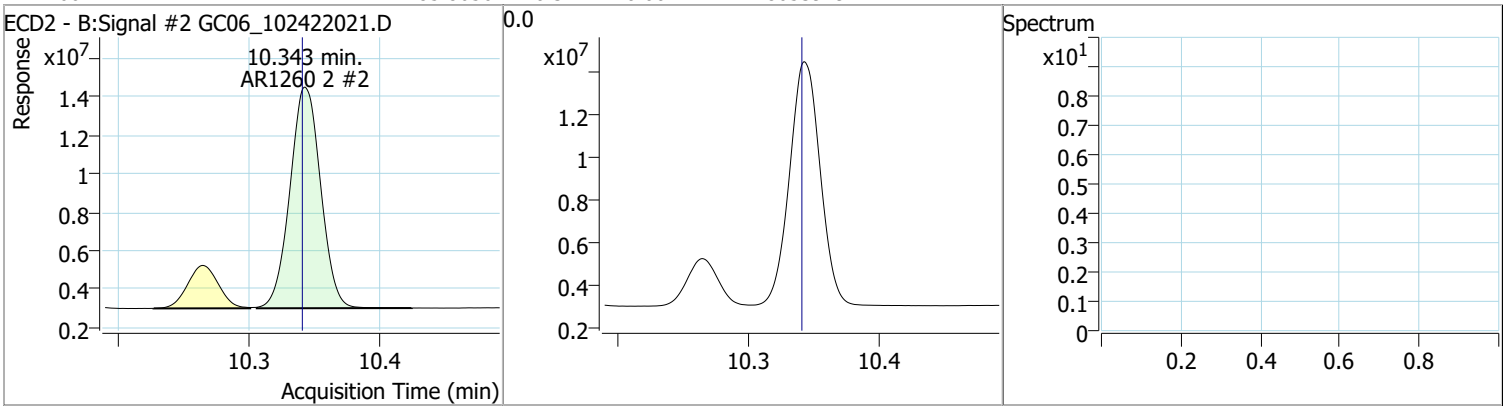
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
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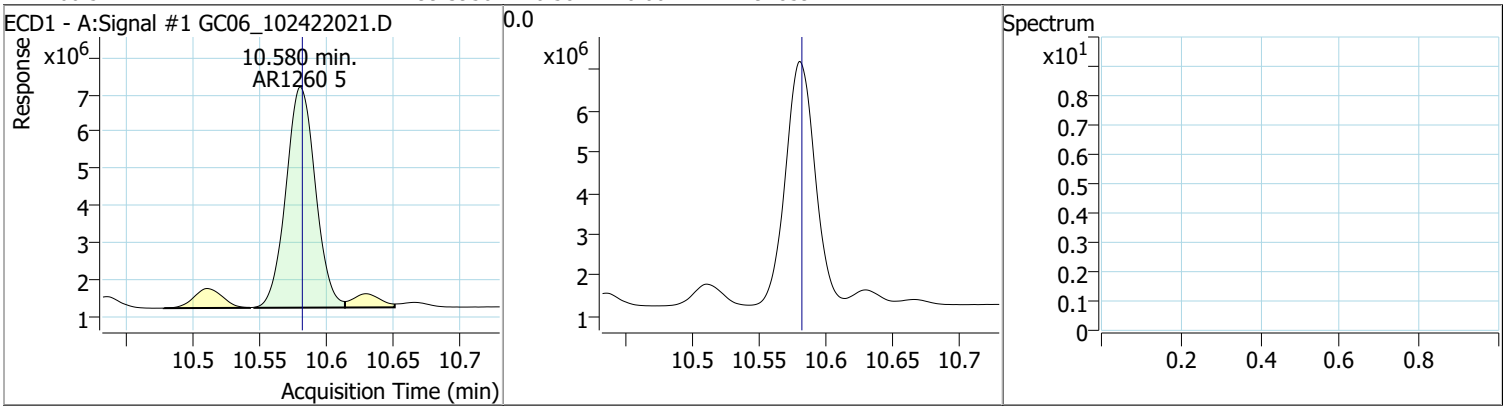
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	1449.9072	10.22	0.00	4208394				



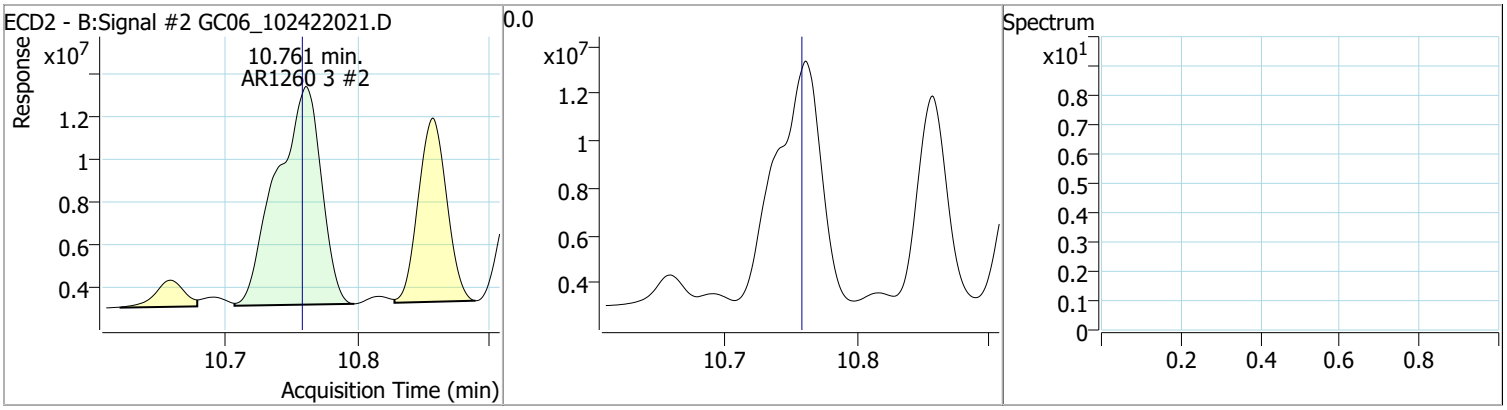
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
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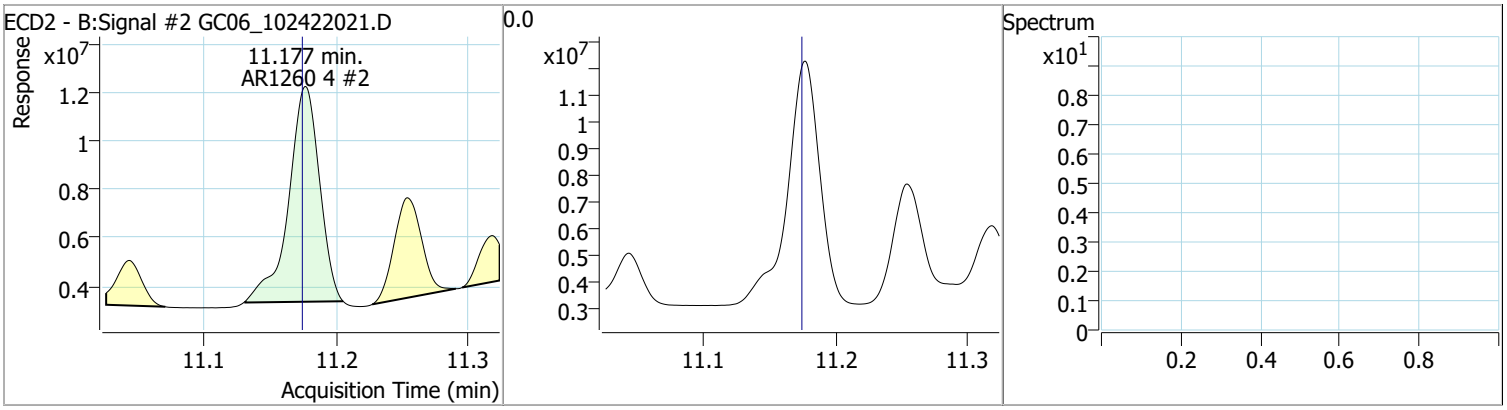
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	1499.3950	10.58	0.00	9185947				



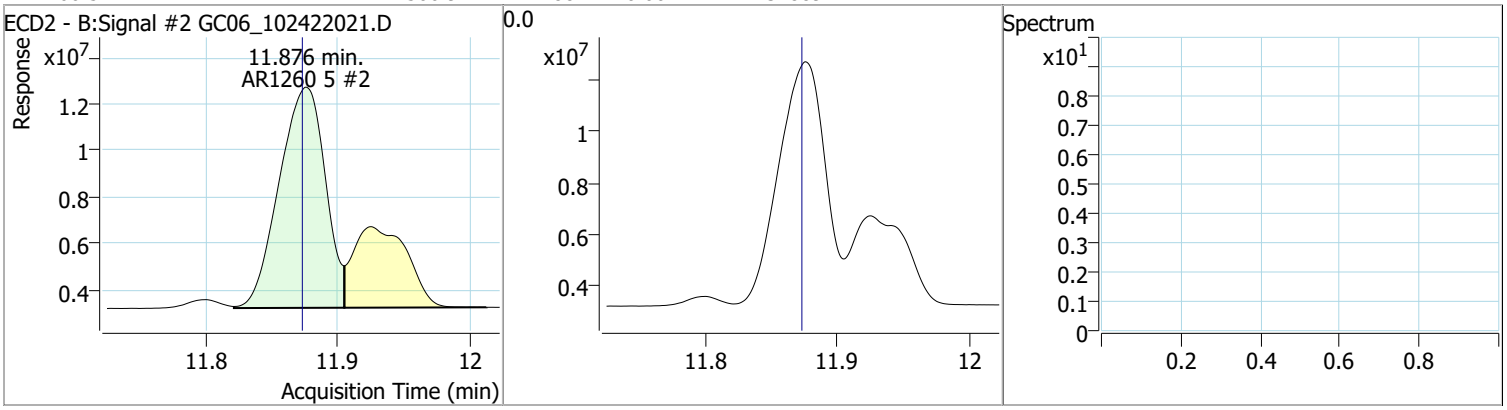
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AR1260 3 #2	1314.2961	10.76	0.00	24133857				



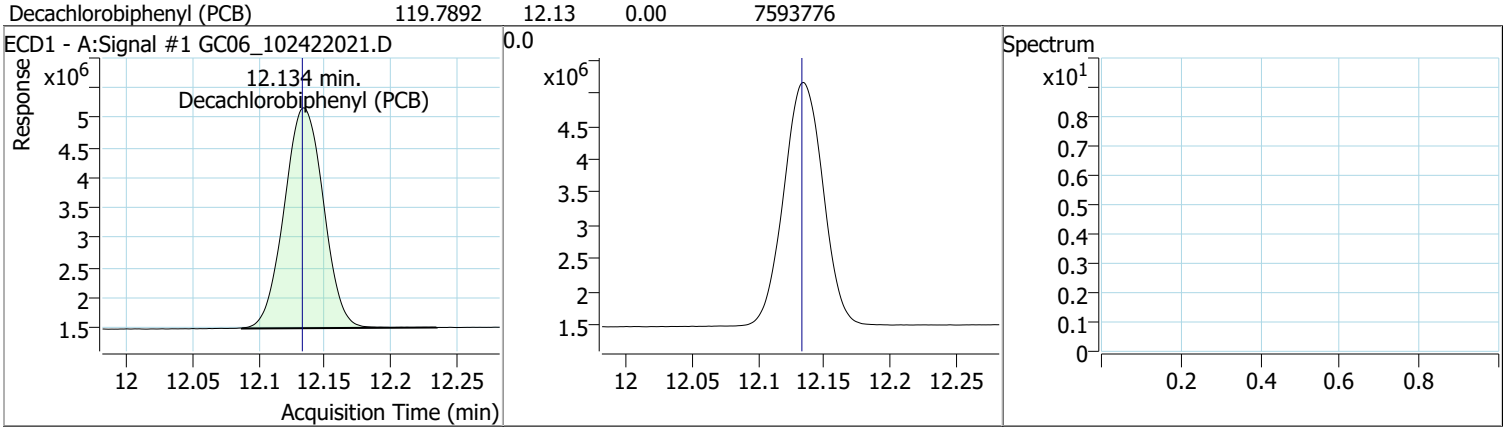
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	1419.8121	11.18	0.00	14547609				



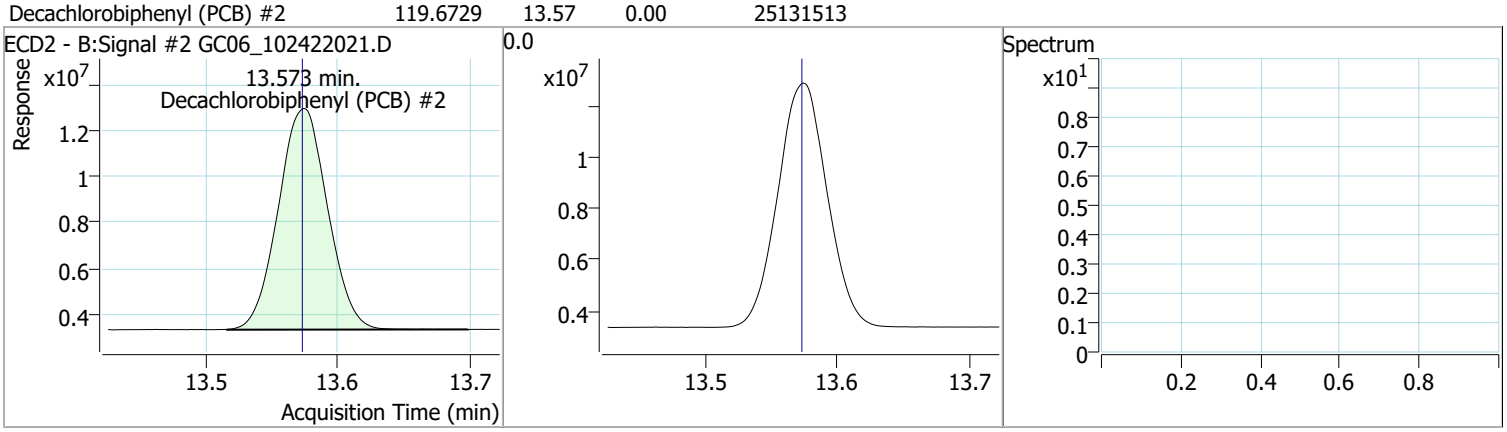
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	1500.9271	11.88	0.00	23188941				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	119.7892	12.13	0.00	7593776				

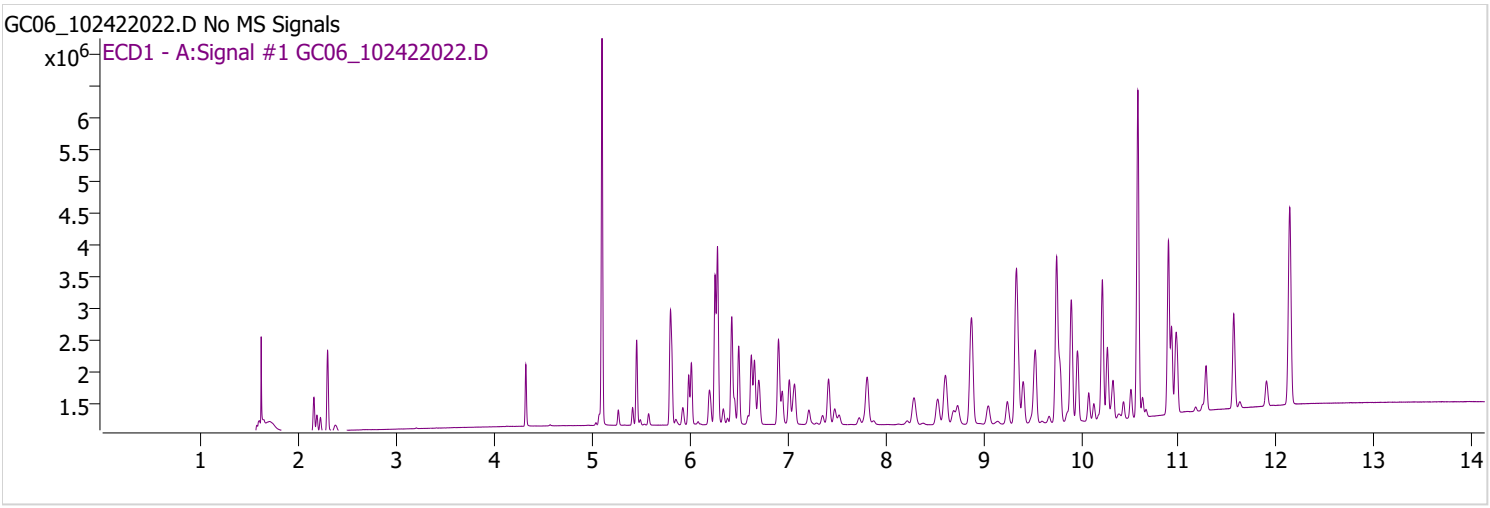


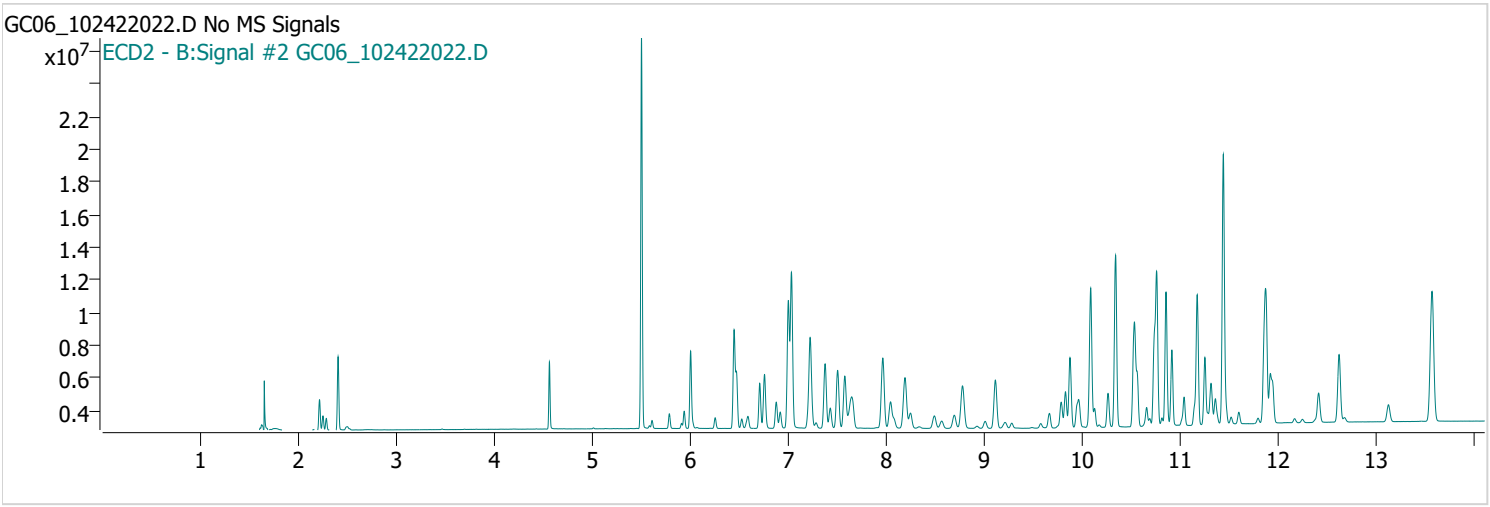
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	119.6729	13.57	0.00	25131513				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422022.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 7:49:40 PM
Sample Name	ICAL, S17271	Instrument	SVOA-GC06
Vial	19	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



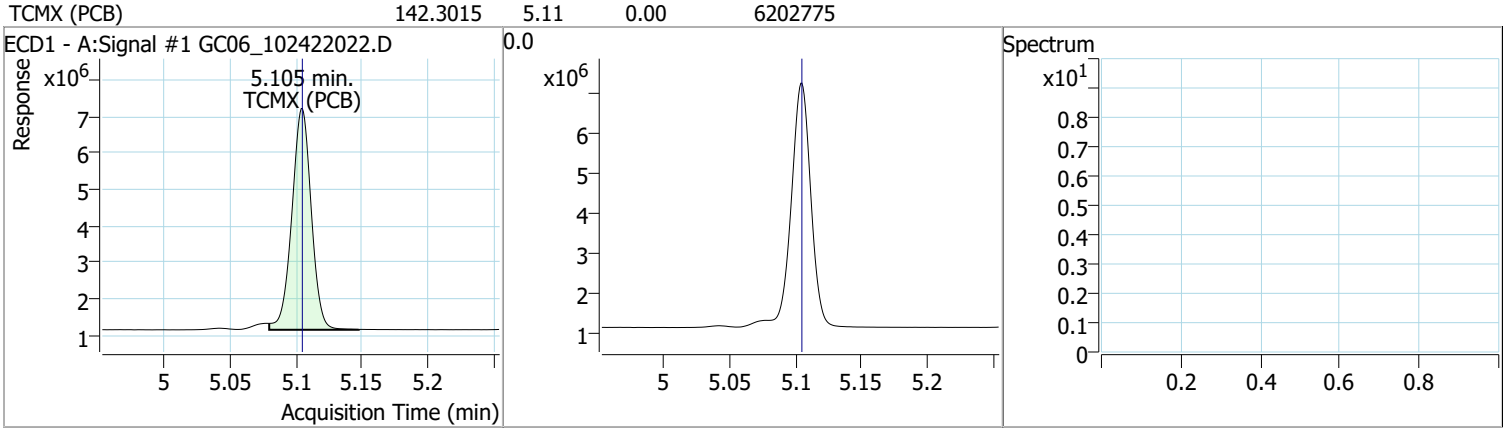


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.326	0.0	906626.221	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	3691149.717	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.105	0.0	6202774.952	142.3015	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 711.51%		*	
S TCMX (PCB) #2	5.503	0.0	25651002.263	144.7037	ng/ml		0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 723.52%		*	
S Decachlorobiphenyl (PCB)	12.134	0.0	6098843.349	106.6672	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 533.34%		*	
S Decachlorobiphenyl (PCB) #2	13.573	0.0	20258174.033	105.7889	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 528.94%		*	
Target Compounds							QValue

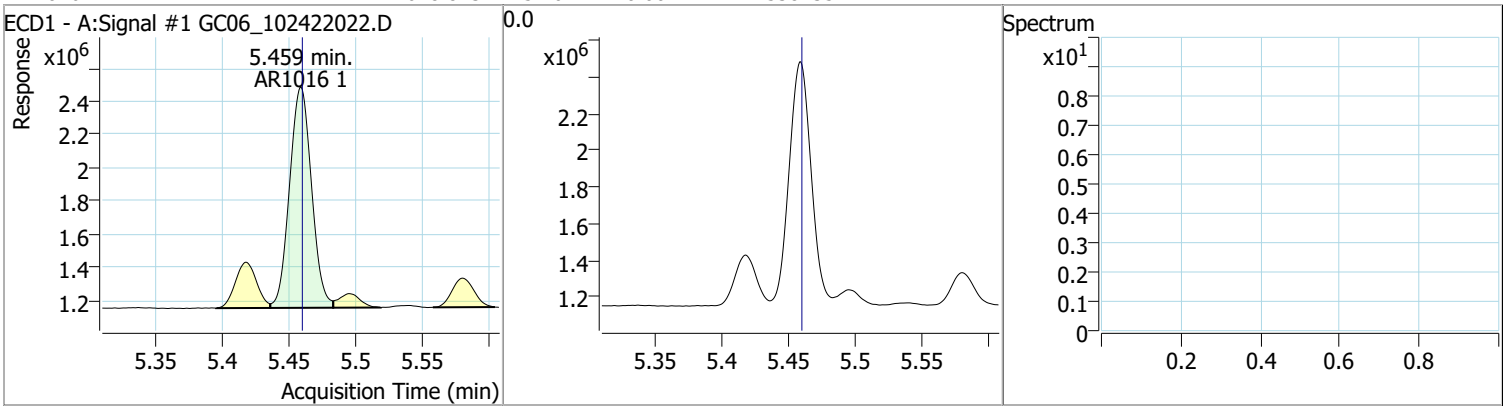
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.459	0.0	1538734.960	1618.8137	ng/ml		100
T AR1016 2	5.805	0.0	3184204.270	1669.3851	ng/ml		100
T AR1016 1 #2	6.003	0.0	6194471.019	1614.7027	ng/ml		100
T AR1016 3	6.285	0.0	3827451.052	1588.1636	ng/ml		100
T AR1016 4	6.431	0.0	2903211.966	1583.9087	ng/ml		100
T AR1016 2 #2	6.448	0.0	8887205.164	1604.8078	ng/ml	m	100
T AR1016 5	6.908	0.0	2292606.771	1552.8837	ng/ml		100
T AR1016 3 #2	7.033	0.0	15846370.157	1574.8198	ng/ml		100
T AR1016 4 #2	7.223	0.0	11463840.690	1595.8363	ng/ml		100
T AR1016 5 #2	7.966	0.0	9161537.220	1568.9859	ng/ml		100
T AR1260 1	8.881	0.0	4117618.549	1343.2907	ng/ml		100
T AR1260 2	9.341	0.0	6106282.504	1306.9692	ng/ml		100
T AR1260 3	9.752	0.0	6524007.873	1335.9676	ng/ml		100
T AR1260 1 #2	10.088	0.0	14980655.669	1363.7603	ng/ml		100
T AR1260 4	10.219	0.0	3788830.282	1453.5184	ng/ml		100
T AR1260 2 #2	10.343	0.0	17403792.021	1318.6185	ng/ml		100
T AR1260 5	10.582	0.0	8046003.993	1461.9072	ng/ml		100
T AR1260 3 #2	10.761	0.0	22258325.428	1332.3228	ng/ml		100
T AR1260 4 #2	11.176	0.0	13342427.945	1431.4709	ng/ml		100
T AR1260 5 #2	11.873	0.0	20128855.663	1431.1606	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

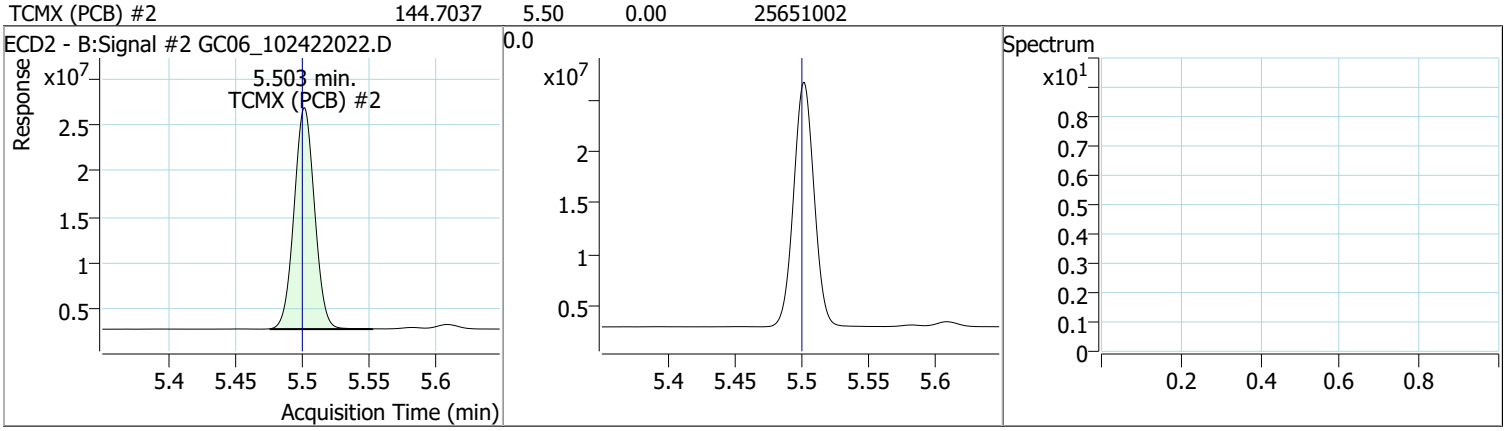
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	142.3015	5.11	0.00	6202775				



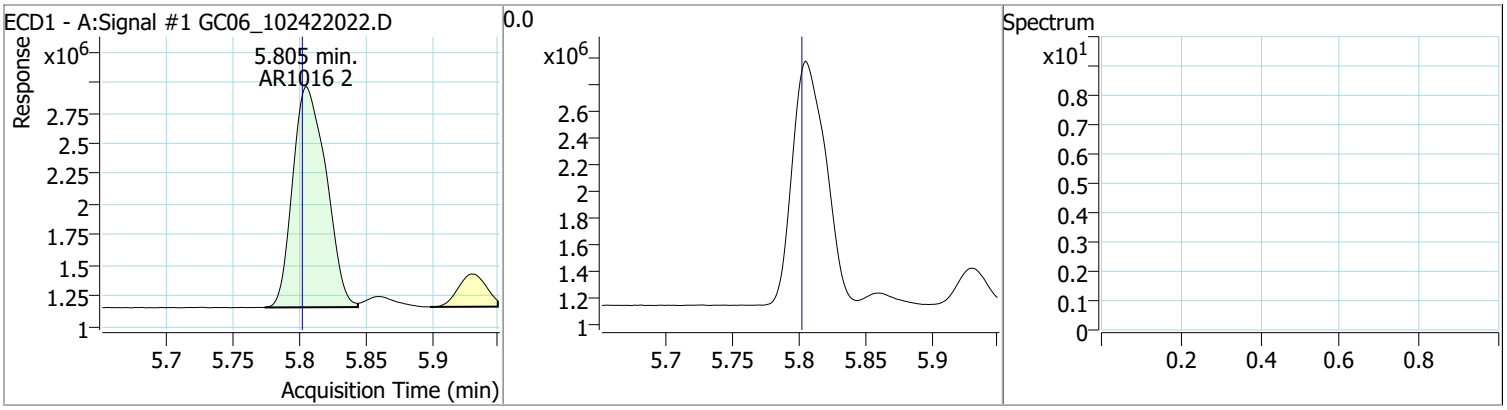
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	1618.8137	5.46	0.00	1538735				



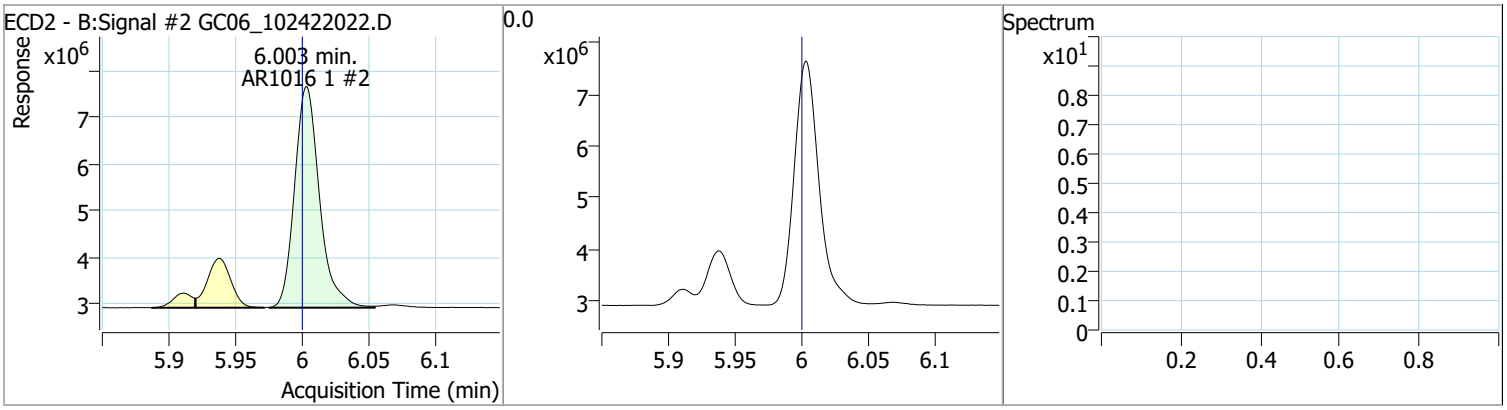
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	144.7037	5.50	0.00	25651002				



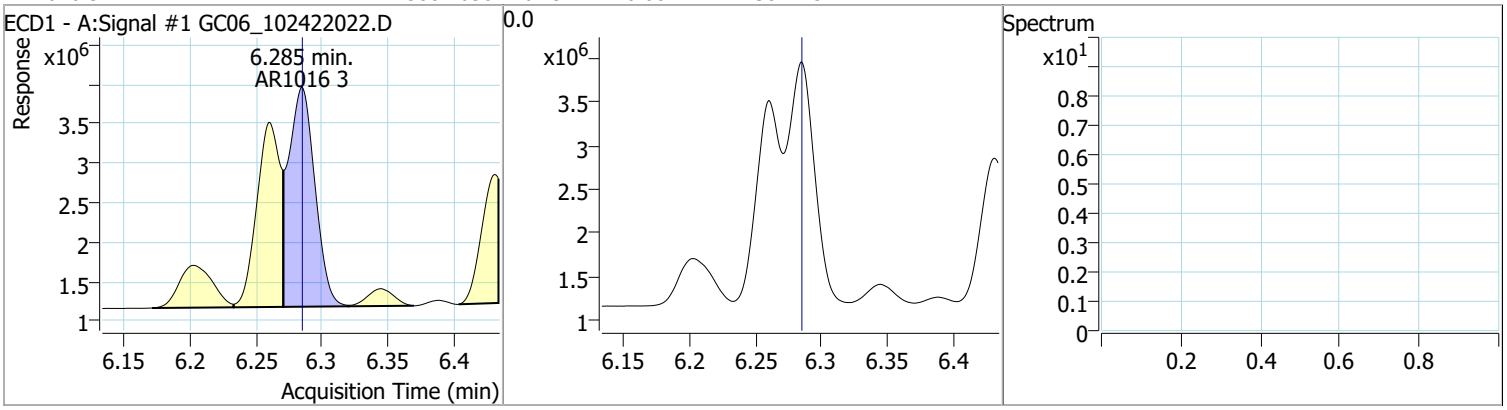
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	1669.3851	5.81	0.00	3184204				



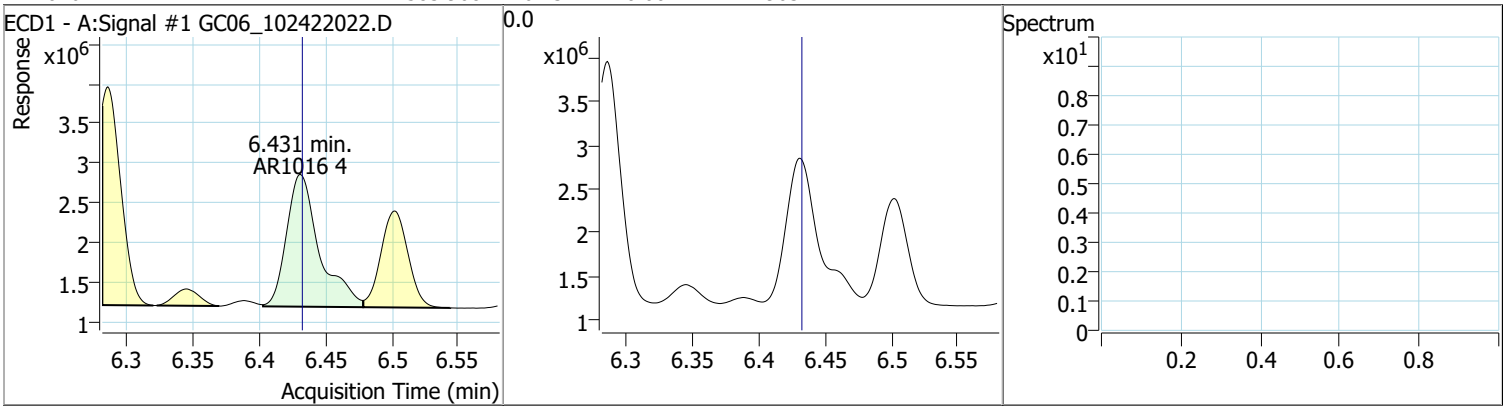
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1614.7027	6.00	0.00	6194471				



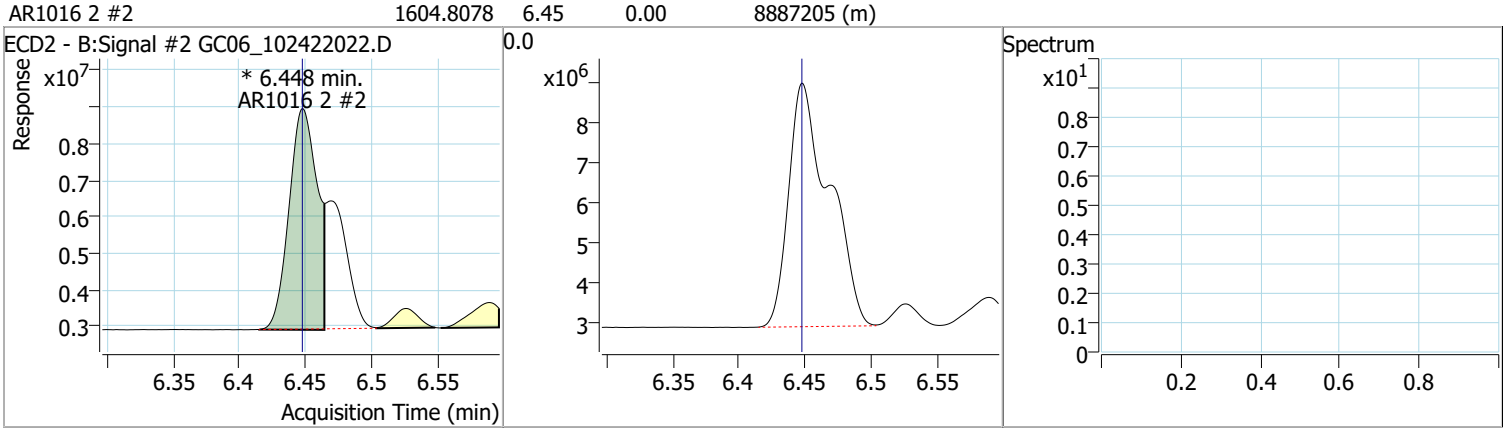
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	1588.1636	6.29	0.00	3827451				



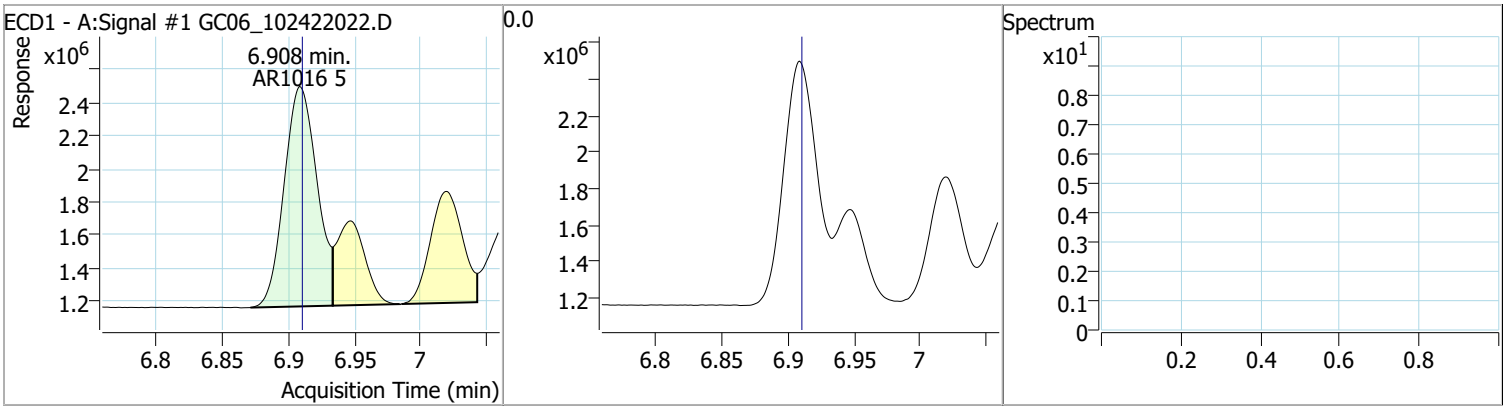
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1583.9087	6.43	0.00	2903212				



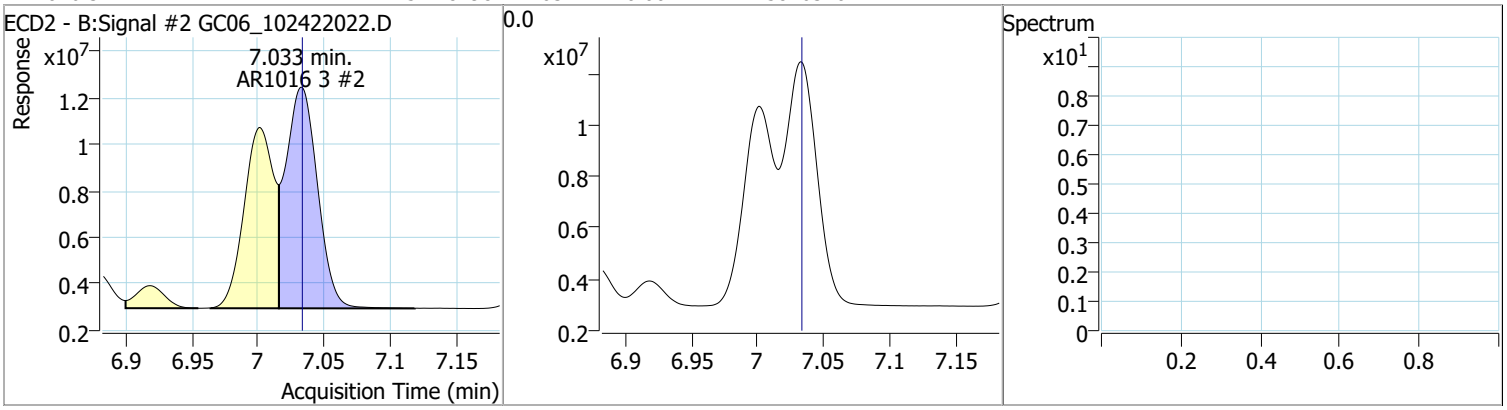
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	1604.8078	6.45	0.00	8887205 (m)				



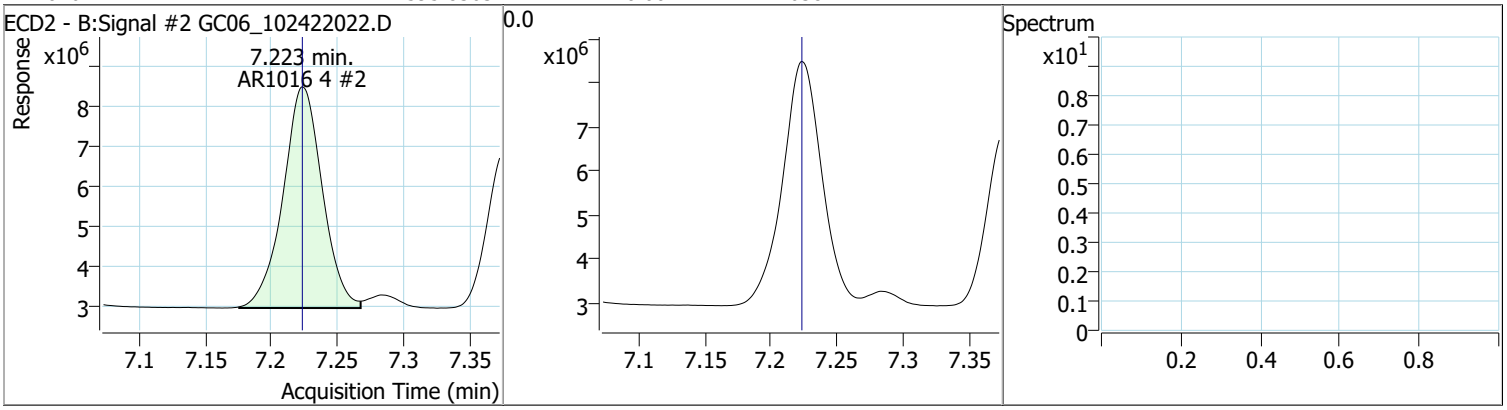
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	1552.8837	6.91	0.00	2292607				



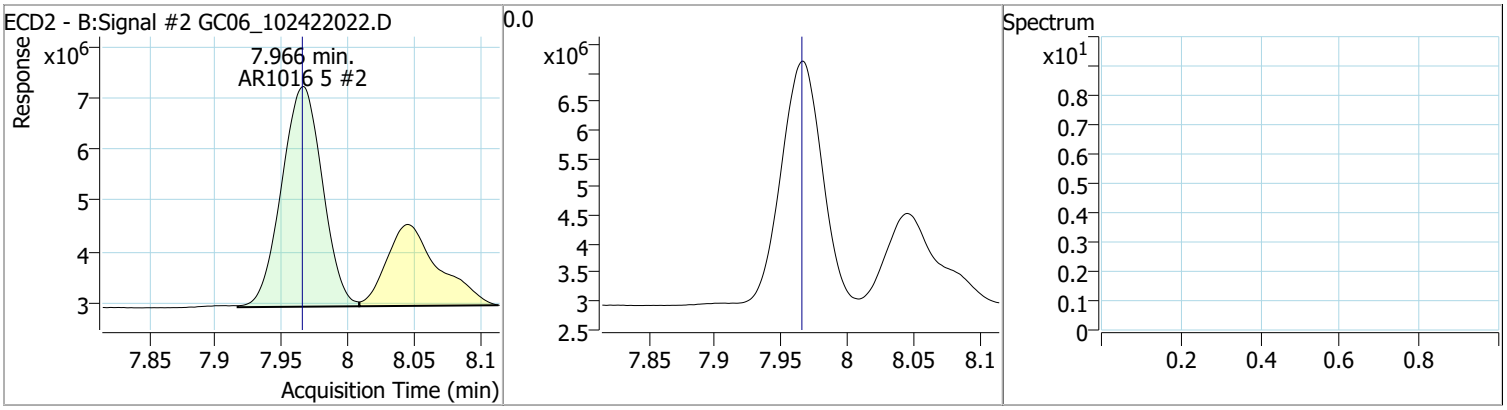
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	1574.8198	7.03	0.00	15846370				



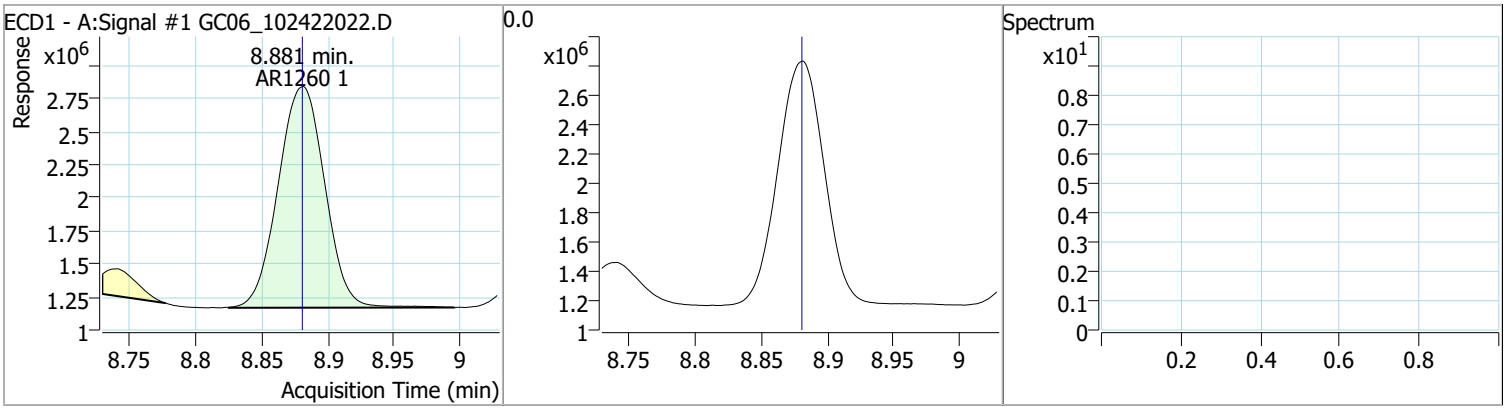
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	1595.8363	7.22	0.00	11463841				



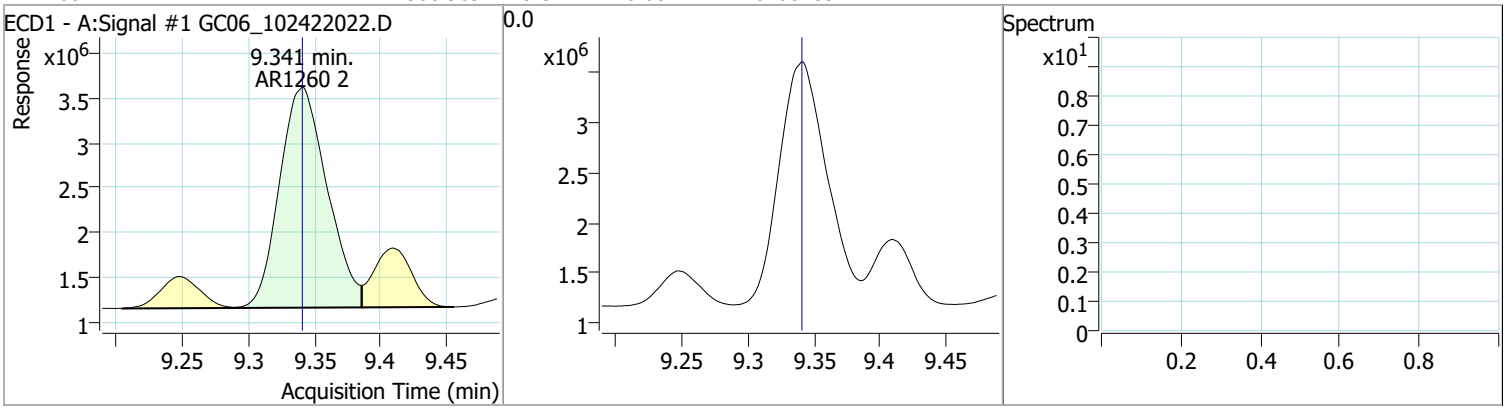
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	1568.9859	7.97	0.00	9161537				



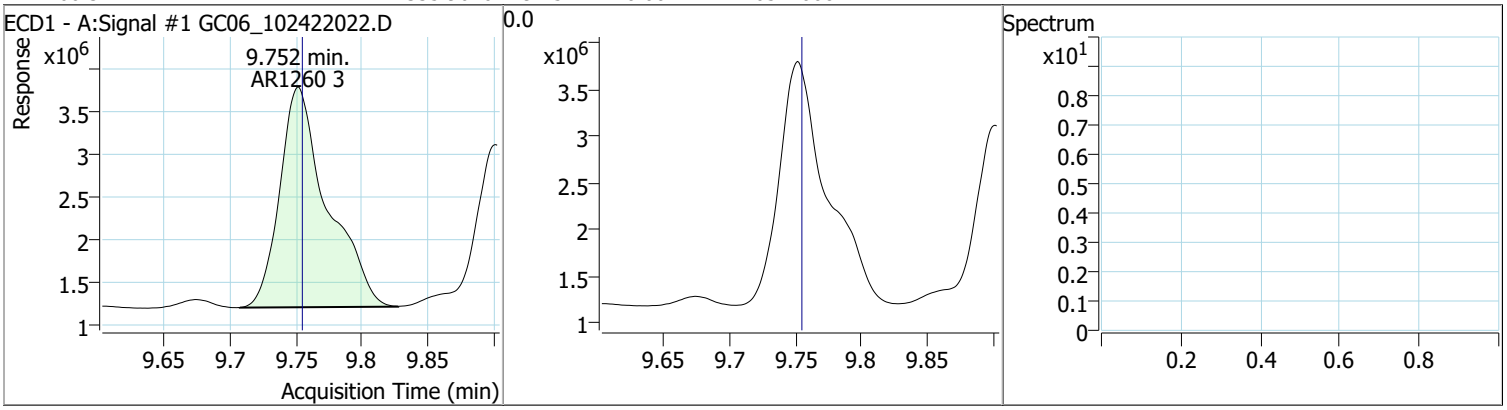
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1343.2907	8.88	0.00	4117619				



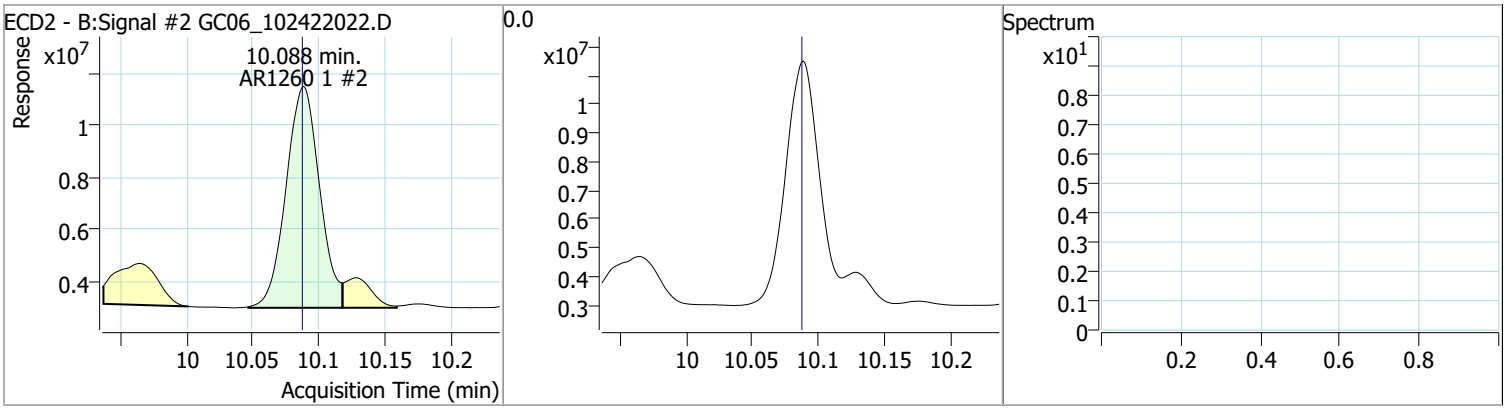
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1306.9692	9.34	0.00	6106283				



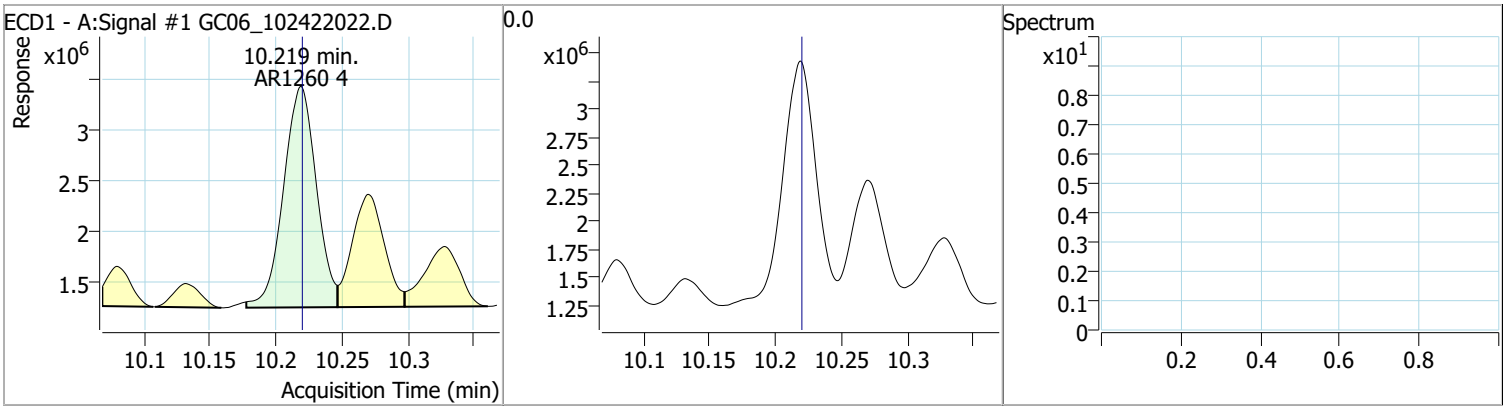
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	1335.9676	9.75	0.00	6524008				



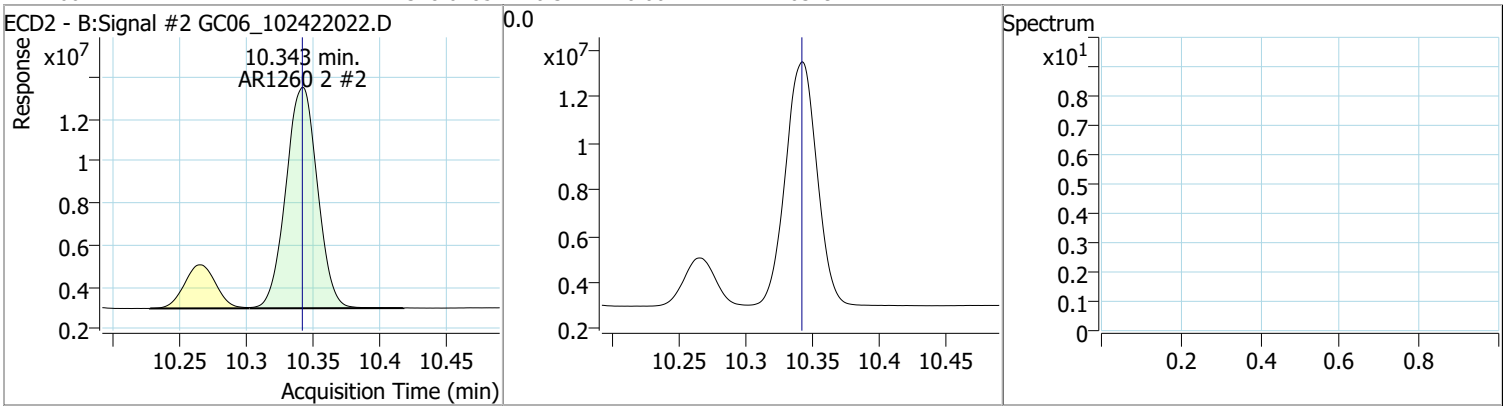
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	1363.7603	10.09	0.00	14980656				



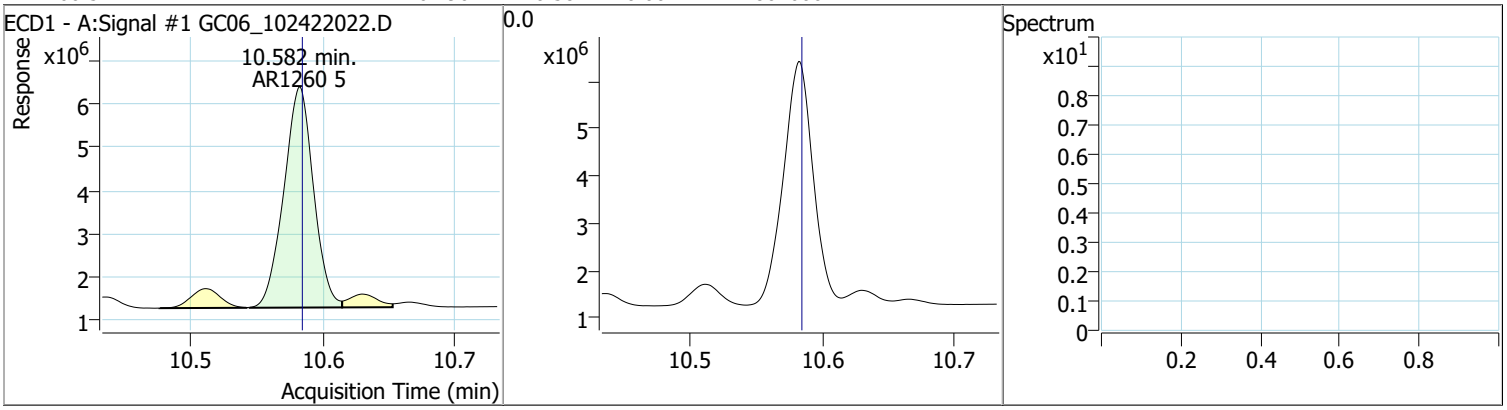
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	1453.5184	10.22	0.00	3788830				



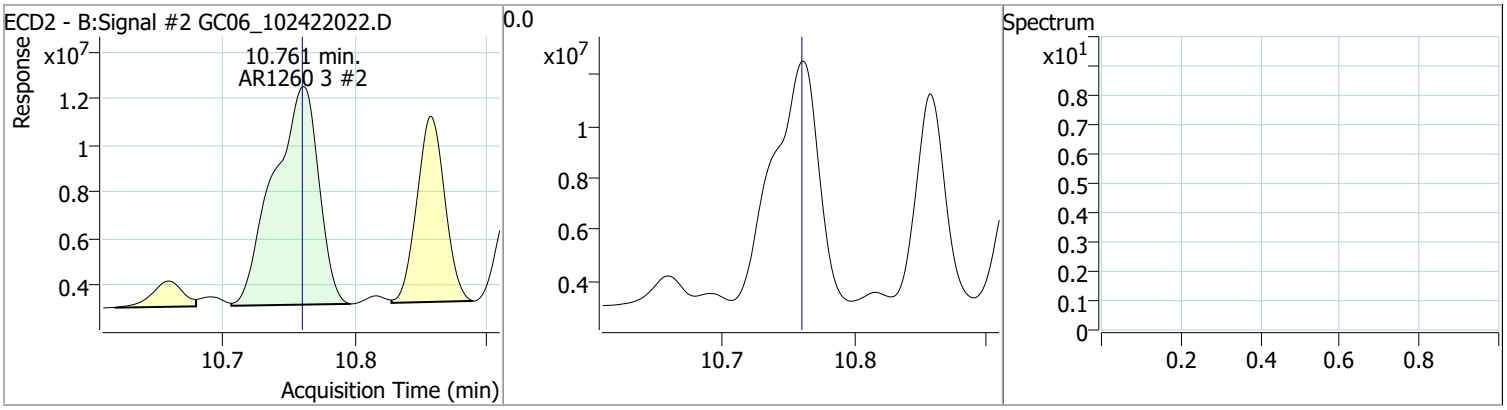
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	1318.6185	10.34	0.00	17403792				



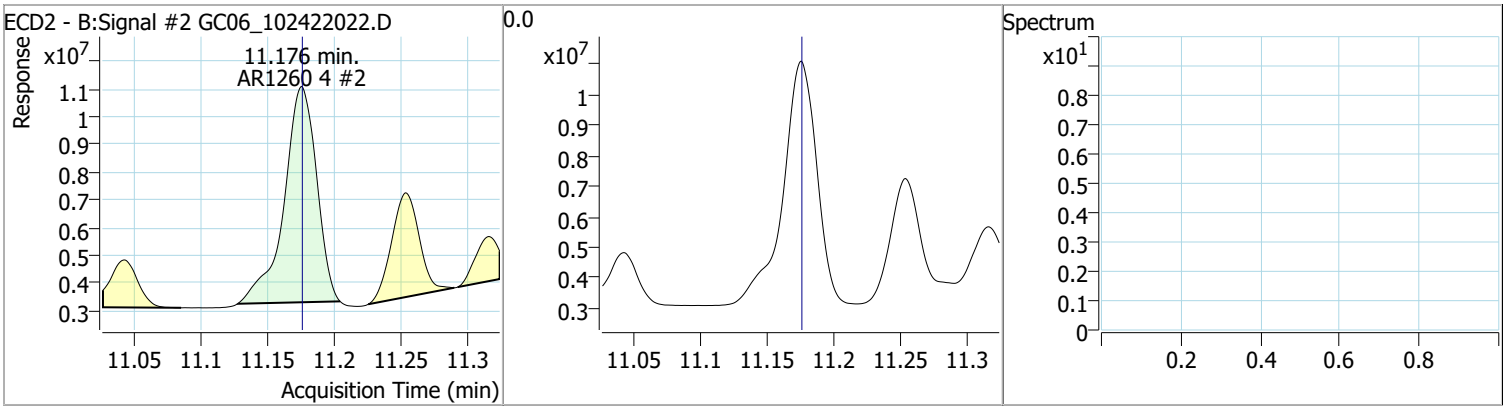
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	1461.9072	10.58	0.00	8046004				



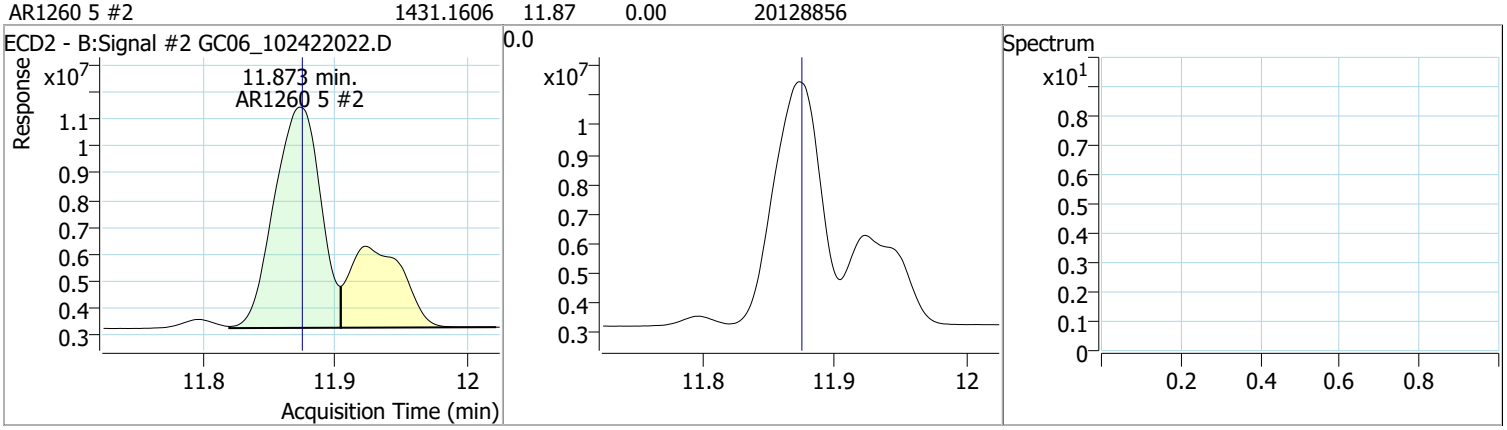
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	1332.3228	10.76	0.00	22258325				



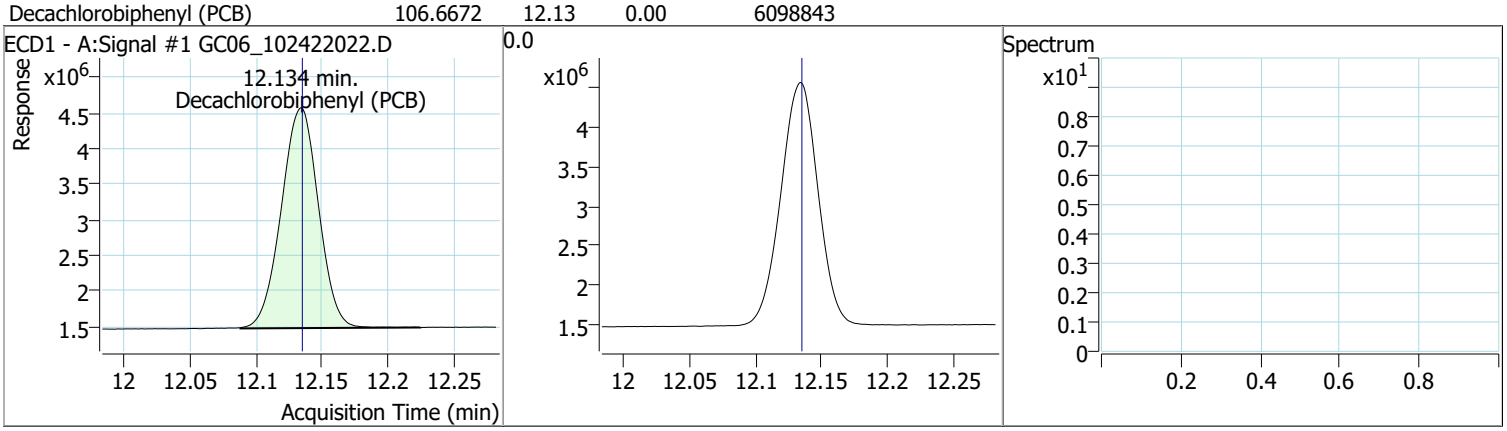
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	1431.4709	11.18	0.00	13342428				



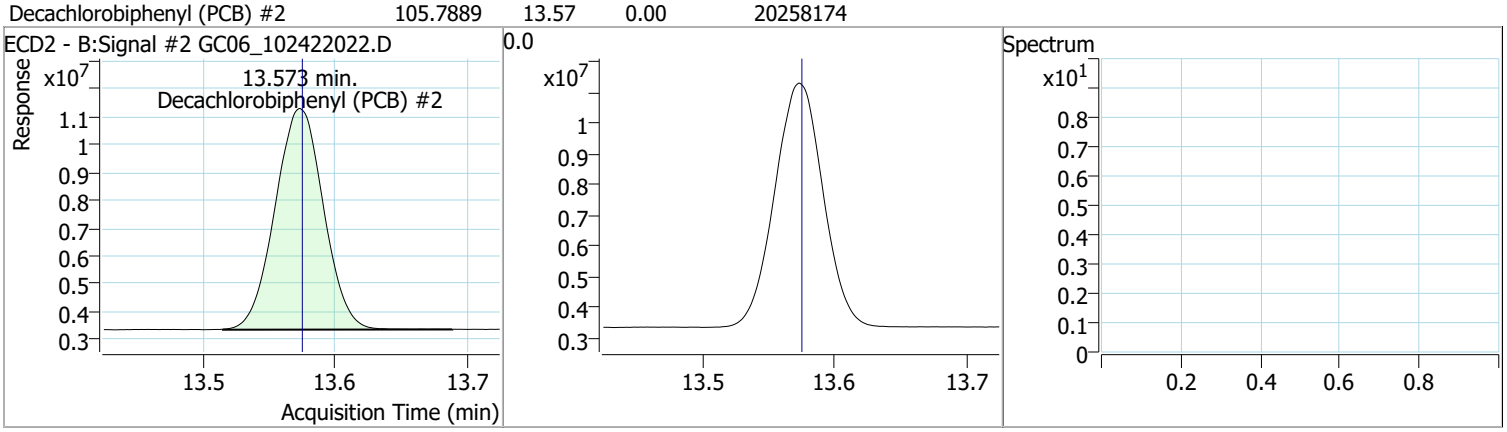
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	1431.1606	11.87	0.00	20128856				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	106.6672	12.13	0.00	6098843				

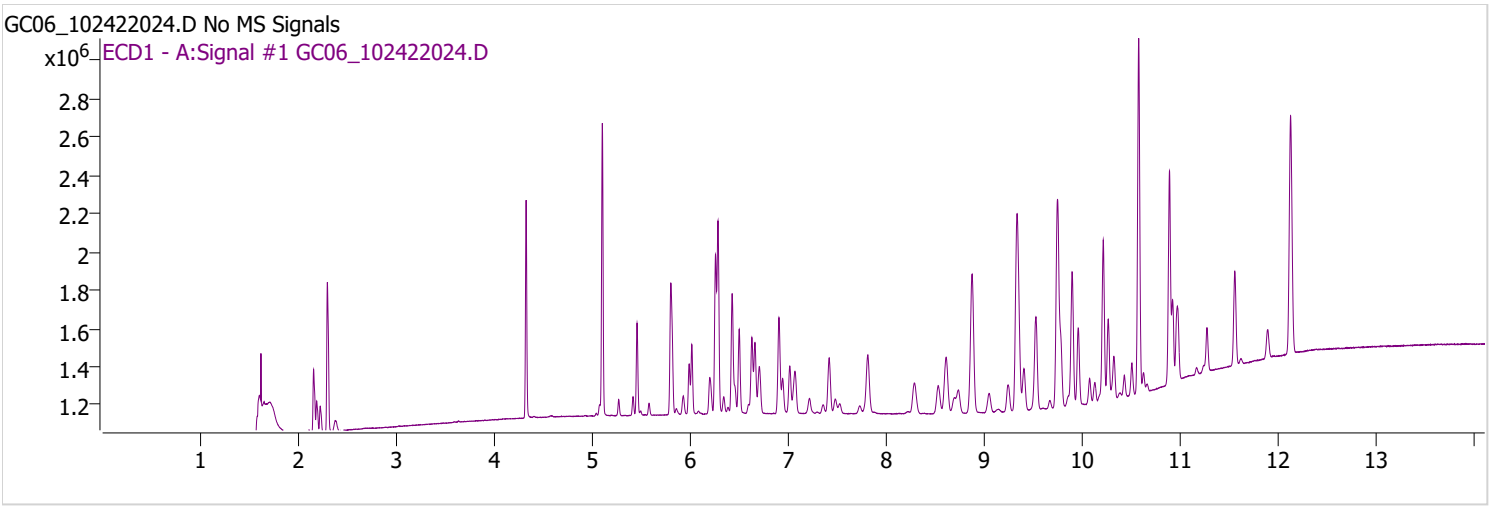


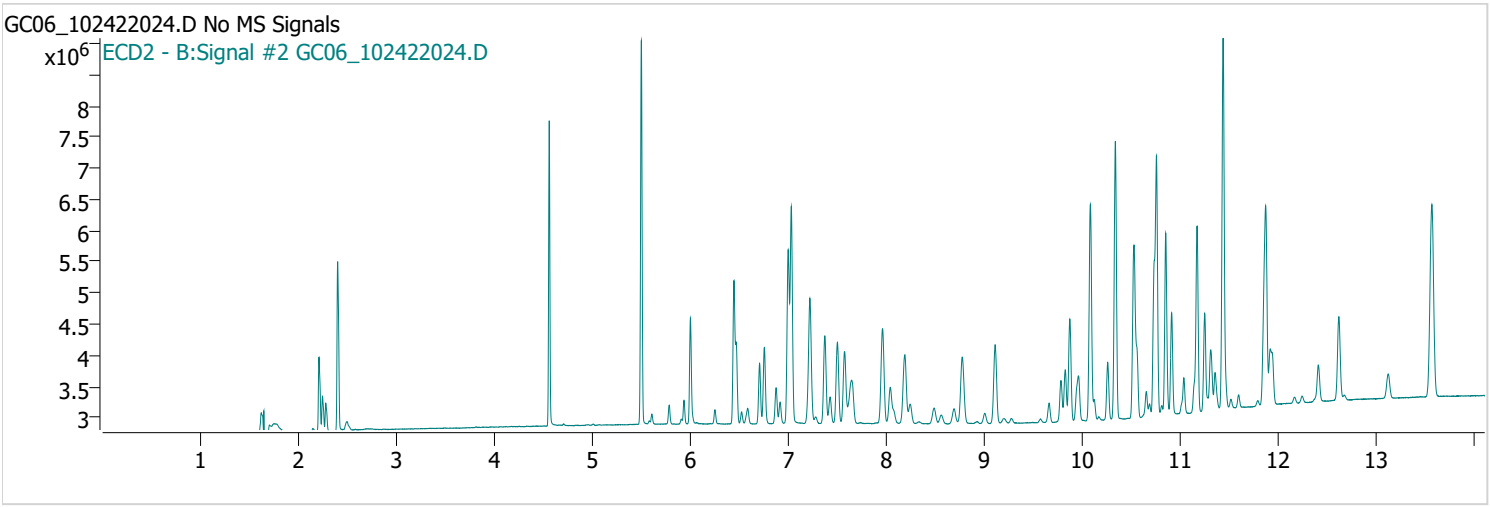
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	105.7889	13.57	0.00	20258174				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422024.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 8:25:35 PM
Sample Name	ICV, S17235	Instrument	SVOA-GC06
Vial	20	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



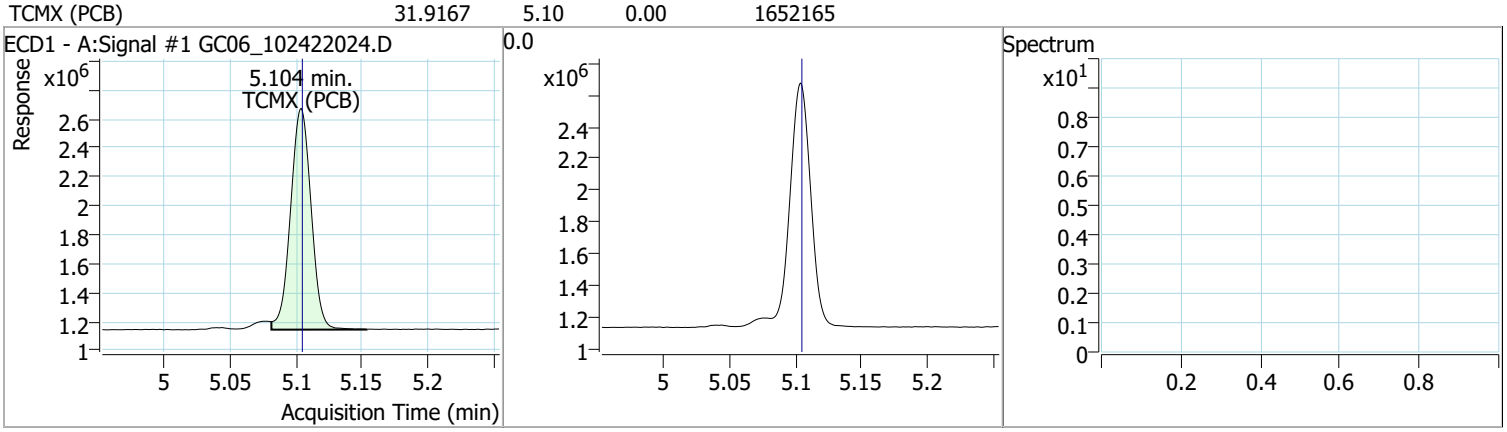


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.326	0.0	1076682.196	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	4397148.902	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.104	0.0	1652164.770	31.9167	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 159.58%		*	
S TCMX (PCB) #2	5.503	0.0	6722893.316	31.8363	ng/ml		0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 159.18%		*	
S Decachlorobiphenyl (PCB)	12.132	0.0	2466843.073	33.4800	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 167.40%		*	
S Decachlorobiphenyl (PCB) #2	13.575	0.0	8011248.396	33.7063	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 168.53%		*	
Target Compounds							QValue

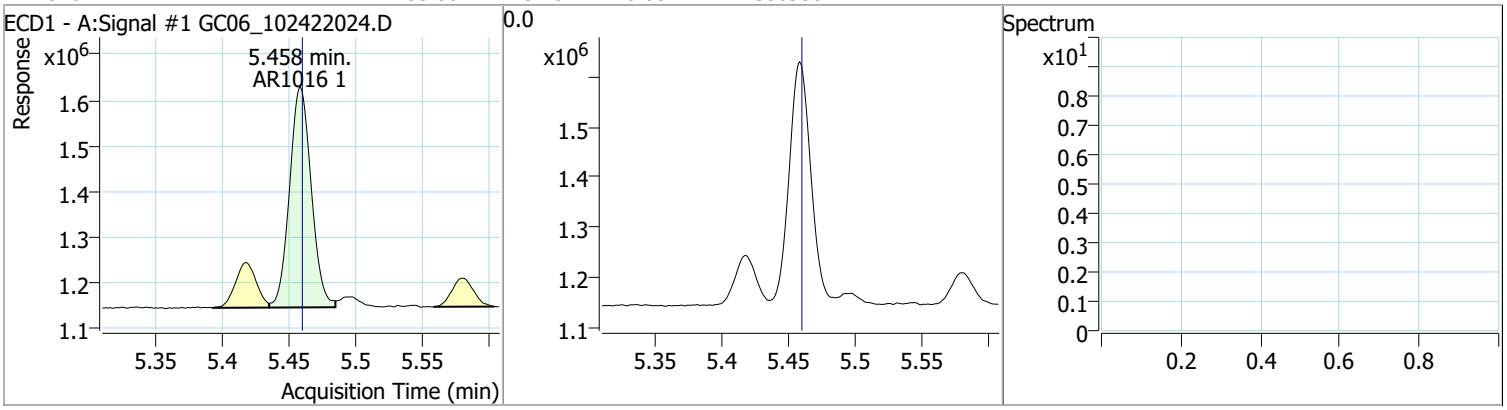
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.458	0.0	550935.426	488.0614	ng/ml		100
T AR1016 2	5.803	0.0	1189862.282	514.7354	ng/ml		100
T AR1016 1 #2	6.003	0.0	2242477.144	490.6896	ng/ml		100
T AR1016 3	6.285	0.0	1389465.420	485.4831	ng/ml		100
T AR1016 4	6.430	0.0	1046664.270	480.8388	ng/ml		100
T AR1016 2 #2	6.448	0.0	3255640.126	493.4972	ng/ml	m	100
T AR1016 5	6.908	0.0	816413.877	465.6509	ng/ml		100
T AR1016 3 #2	7.033	0.0	5620148.290	468.8558	ng/ml		100
T AR1016 4 #2	7.223	0.0	4113157.293	480.6445	ng/ml		100
T AR1016 5 #2	7.966	0.0	3287720.462	472.6461	ng/ml		100
T AR1260 1	8.880	0.0	1666464.315	457.7841	ng/ml		100
T AR1260 2	9.340	0.0	2597140.258	468.0849	ng/ml		100
T AR1260 3	9.752	0.0	2770140.676	477.6656	ng/ml		100
T AR1260 1 #2	10.088	0.0	6115733.850	467.3543	ng/ml		100
T AR1260 4	10.219	0.0	1373500.840	432.9684	ng/ml		100
T AR1260 2 #2	10.343	0.0	7171316.093	456.1048	ng/ml		100
T AR1260 5	10.581	0.0	2835639.223	421.1135	ng/ml		100
T AR1260 3 #2	10.763	0.0	9458173.779	475.2419	ng/ml		100
T AR1260 4 #2	11.178	0.0	5106288.877	443.8244	ng/ml		100
T AR1260 5 #2	11.878	0.0	7482914.204	433.7764	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

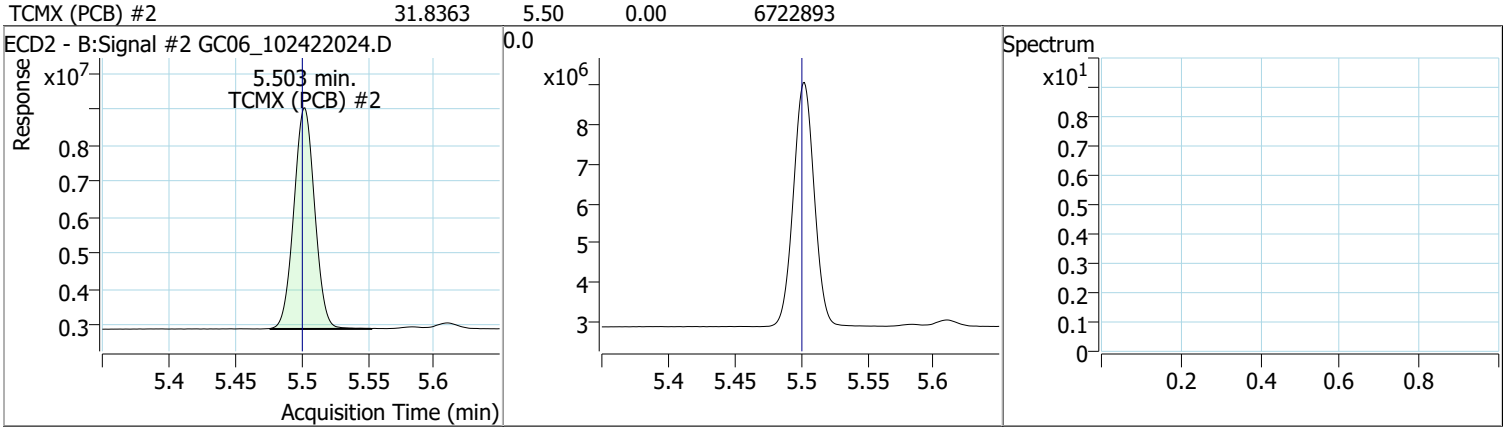
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	31.9167	5.10	0.00	1652165				



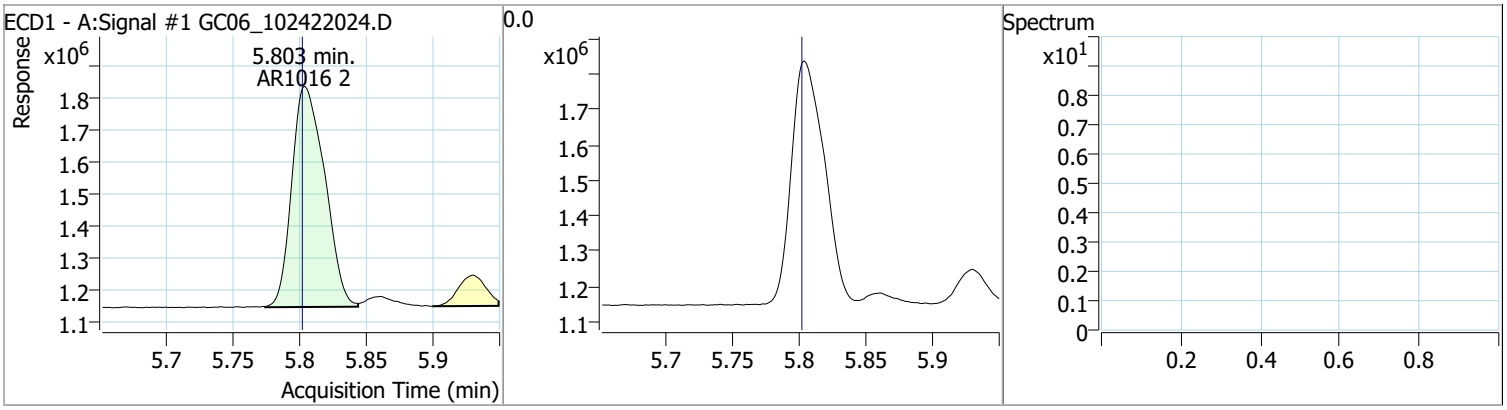
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	488.0614	5.46	0.00	550935				



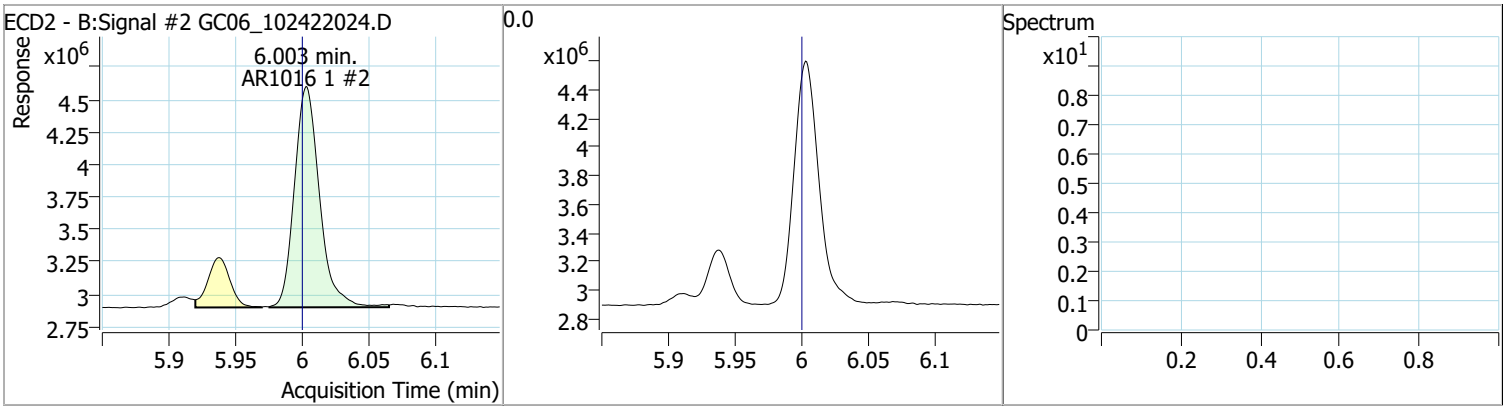
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	31.8363	5.50	0.00	6722893				



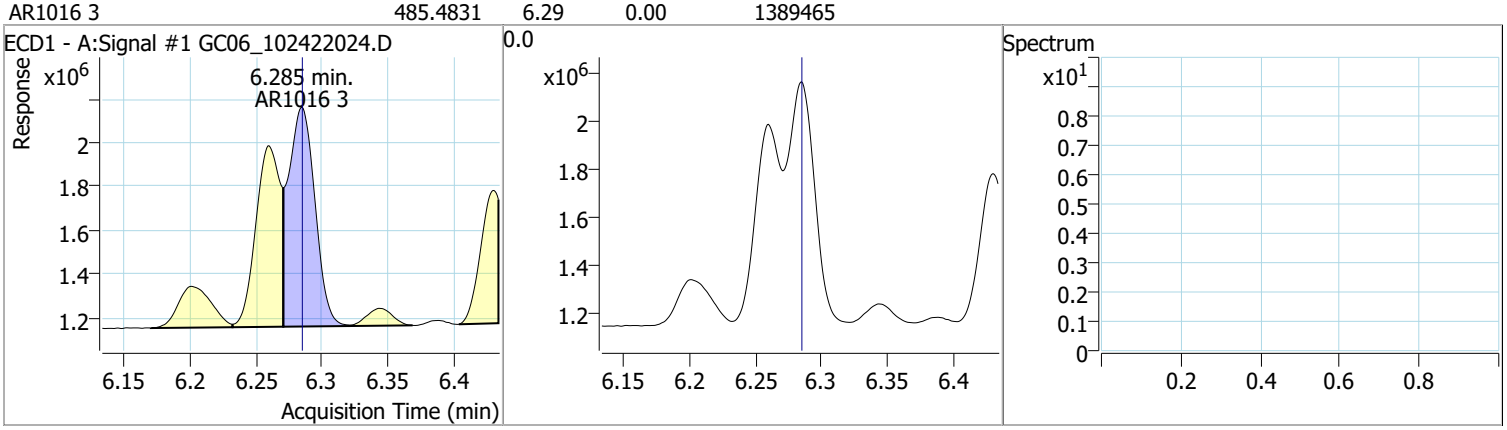
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	514.7354	5.80	0.00	1189862				



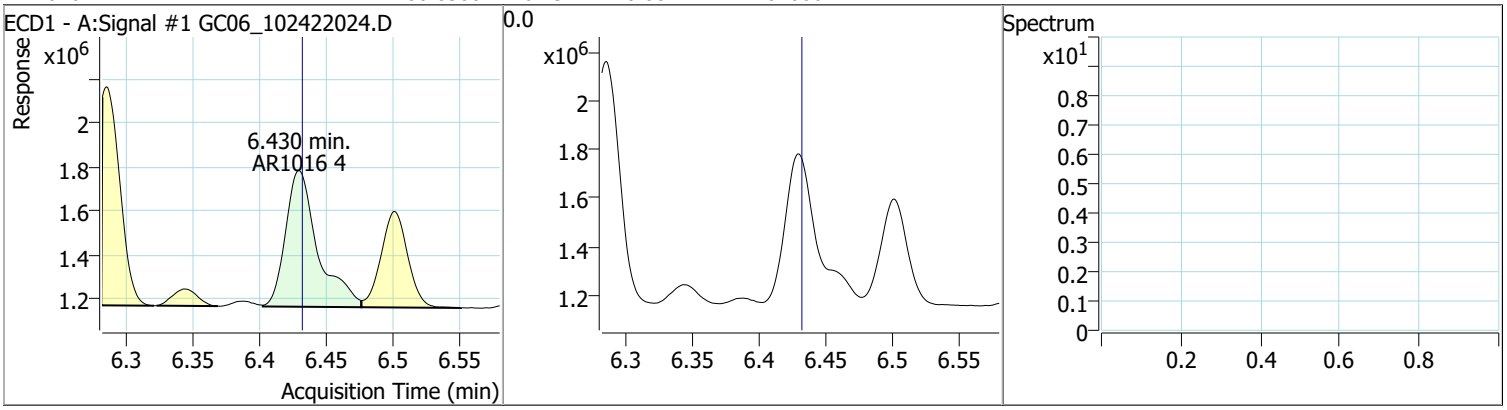
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	490.6896	6.00	0.00	2242477				



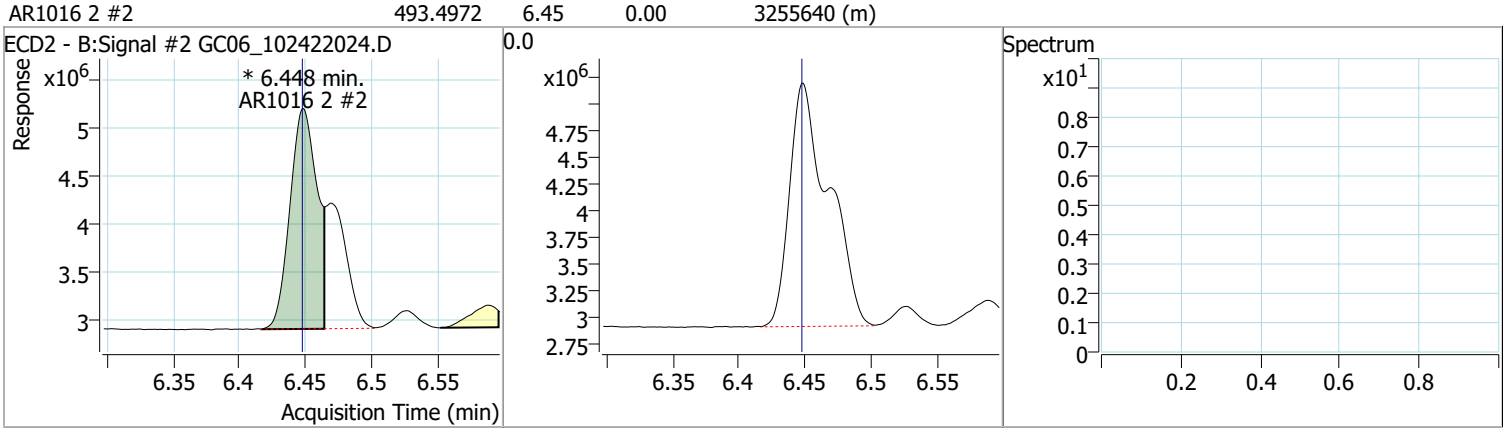
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	485.4831	6.29	0.00	1389465				



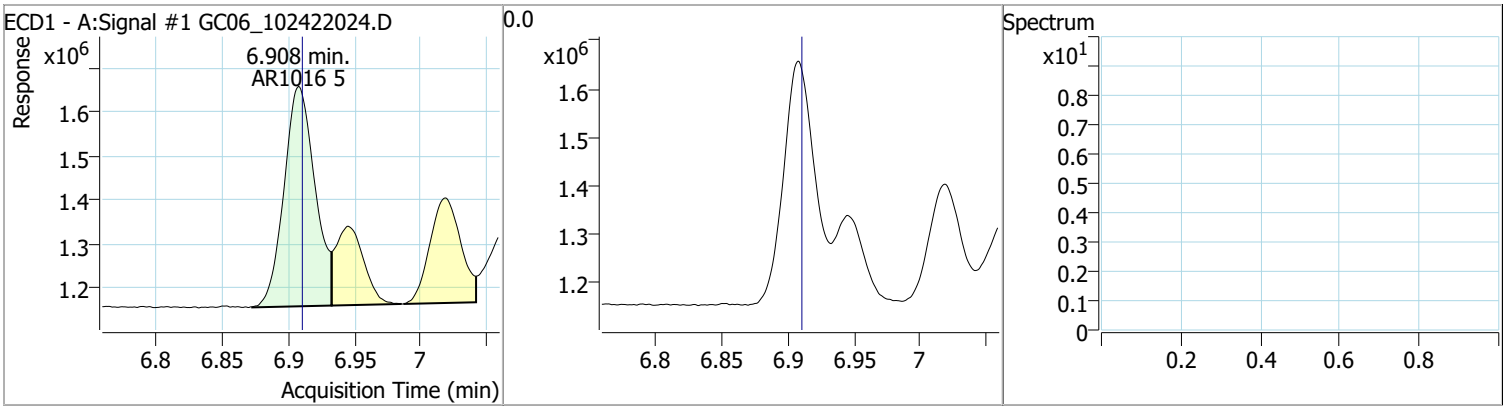
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	480.8388	6.43	0.00	1046664				



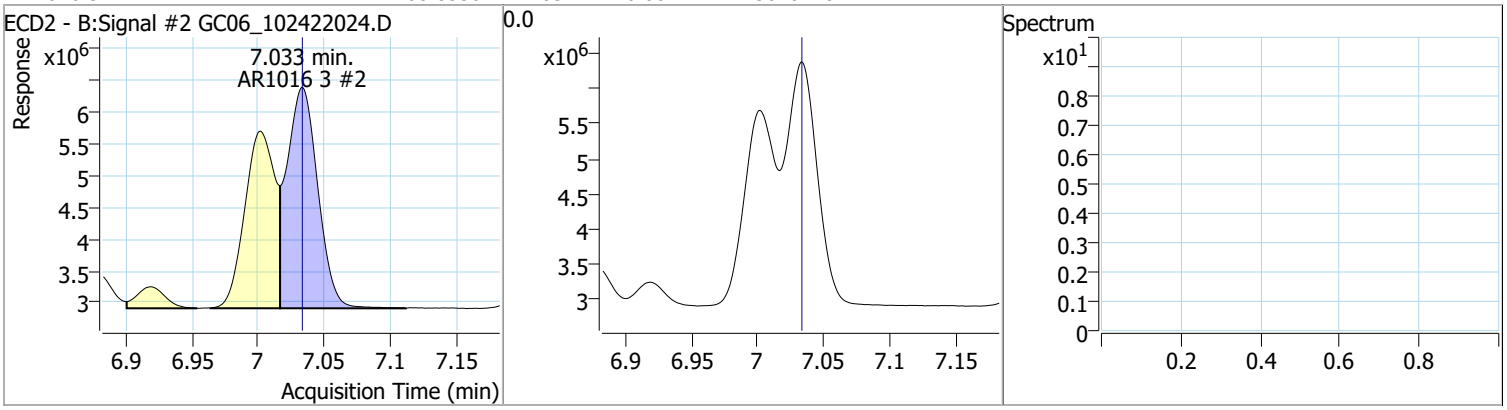
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	493.4972	6.45	0.00	3255640 (m)				



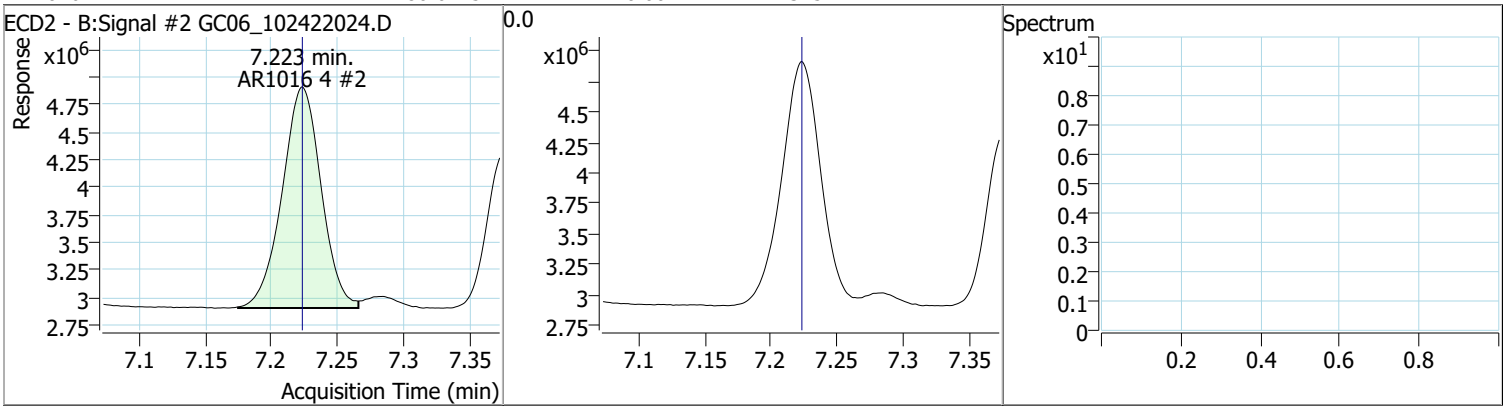
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	465.6509	6.91	0.00	816414				



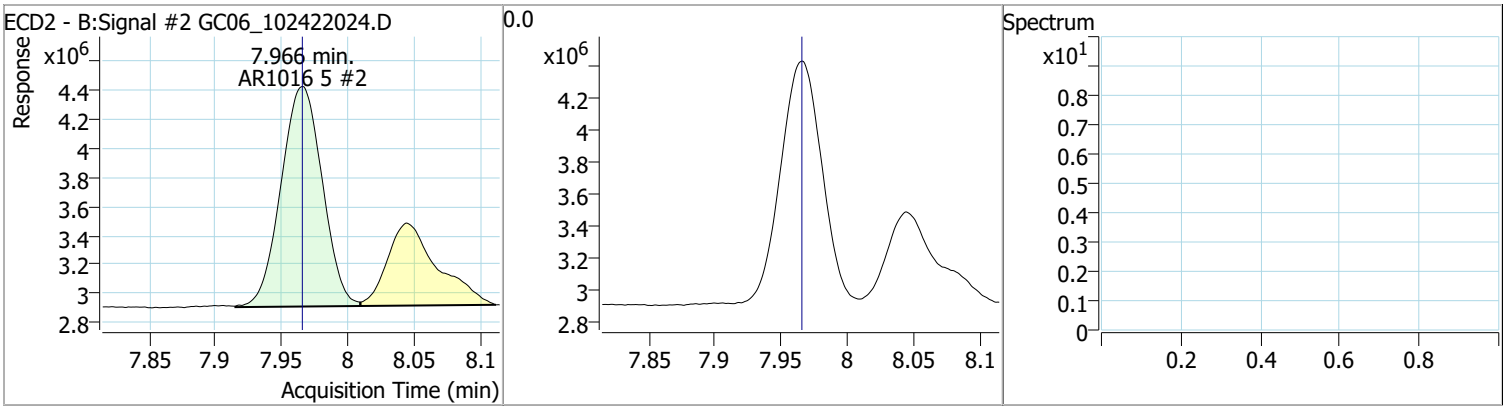
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	468.8558	7.03	0.00	5620148				



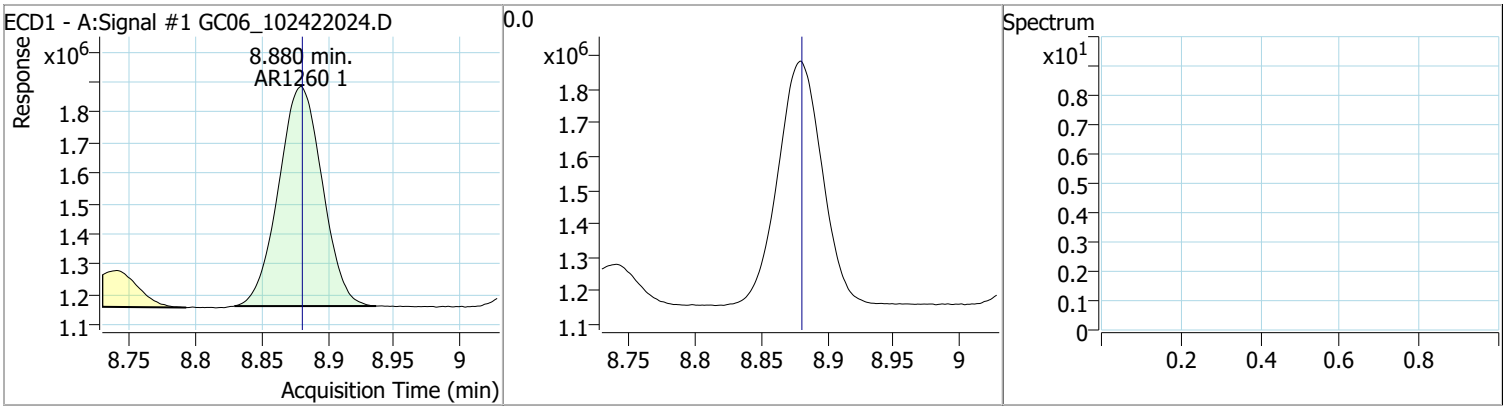
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	480.6445	7.22	0.00	4113157				



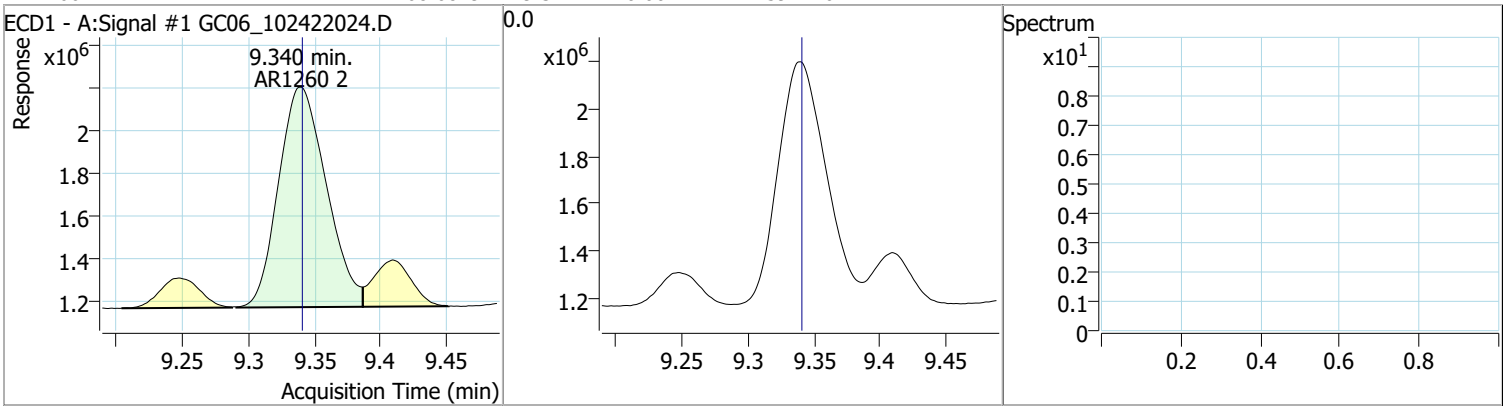
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	472.6461	7.97	0.00	3287720				



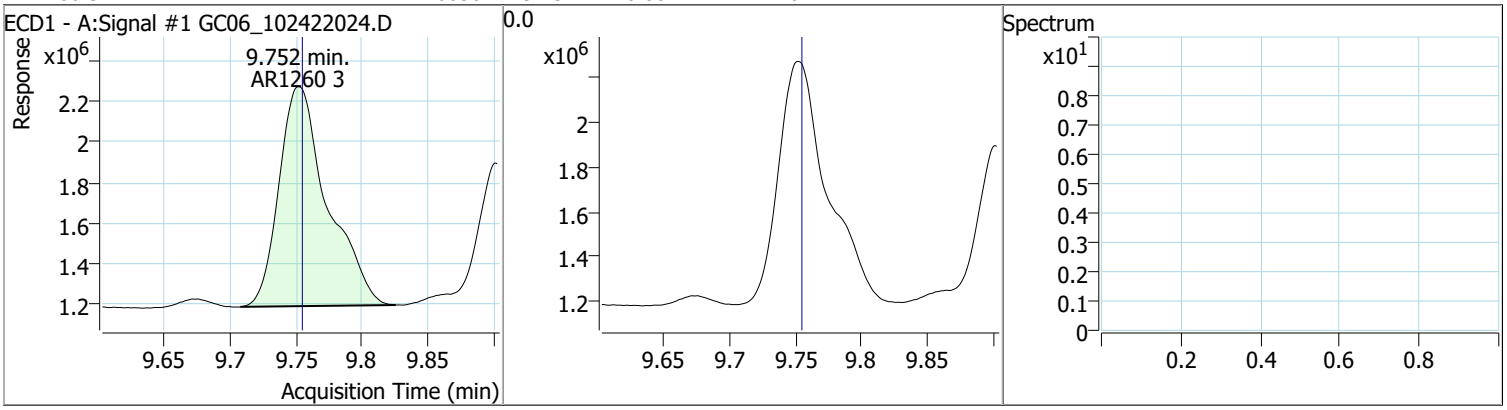
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	457.7841	8.88	0.00	1666464				



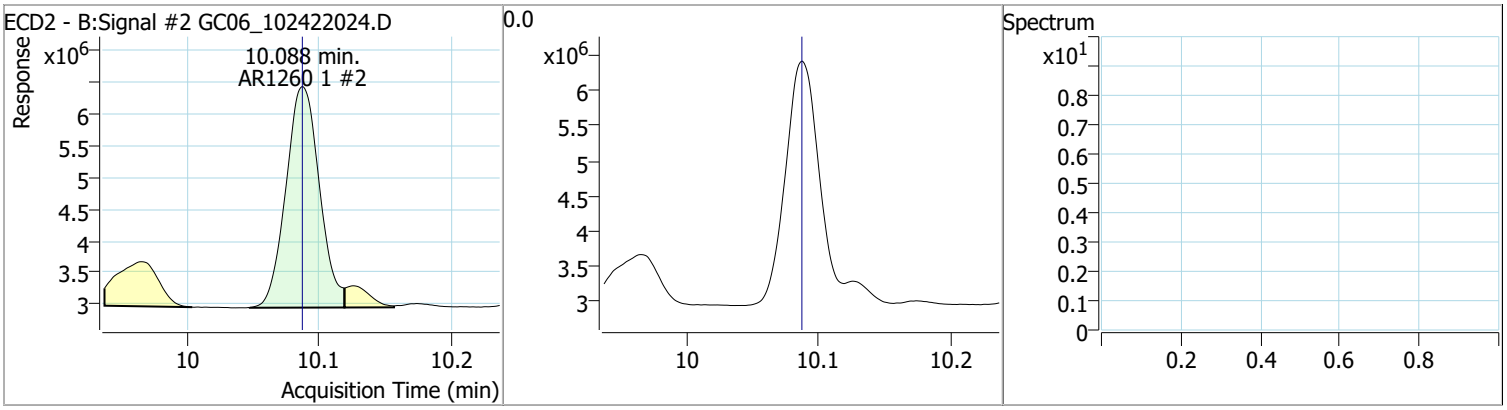
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	468.0849	9.34	0.00	2597140				



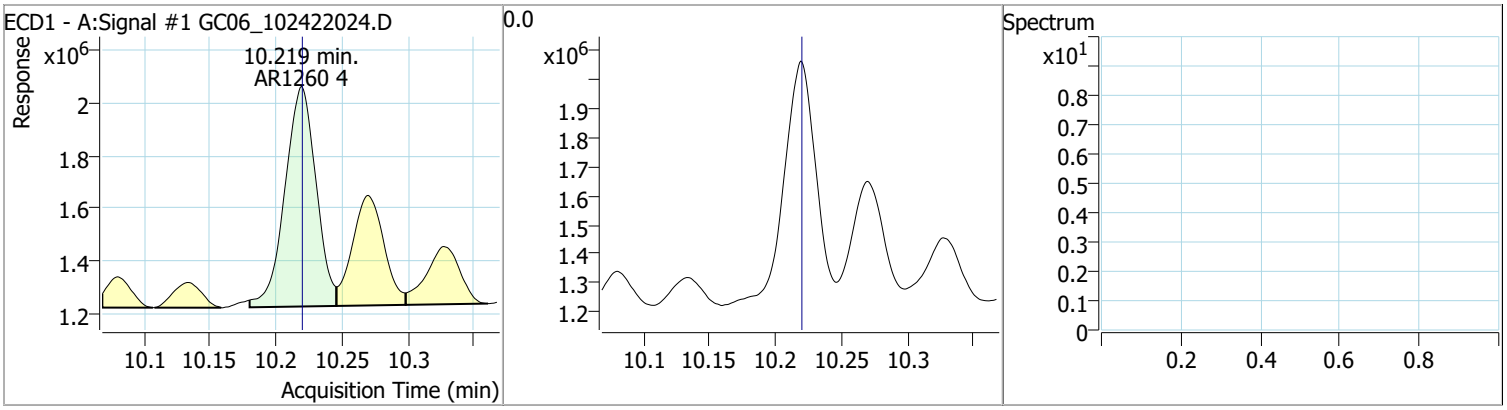
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	477.6656	9.75	0.00	2770141				



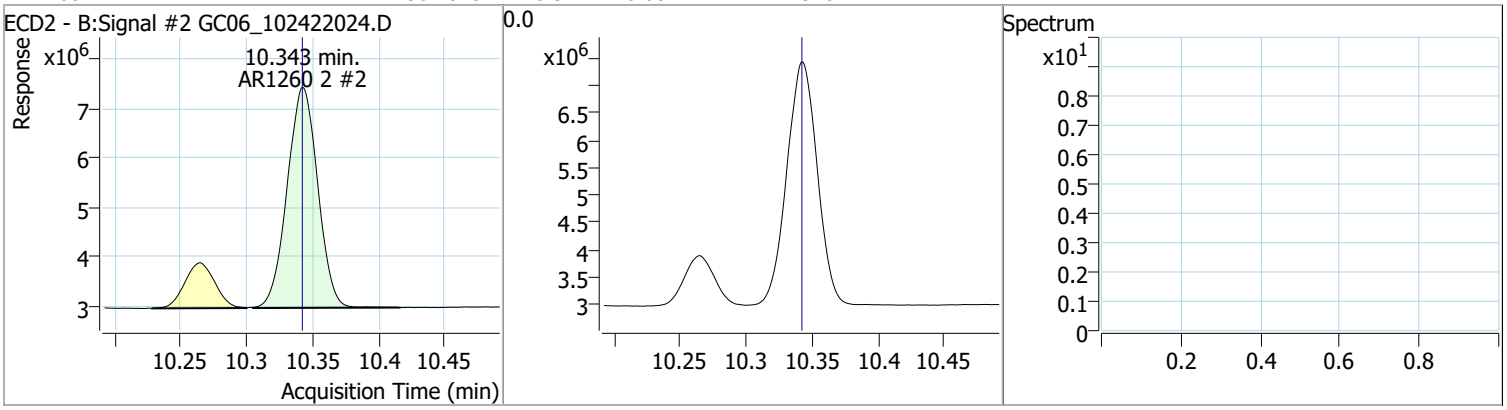
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	467.3543	10.09	0.00	6115734				



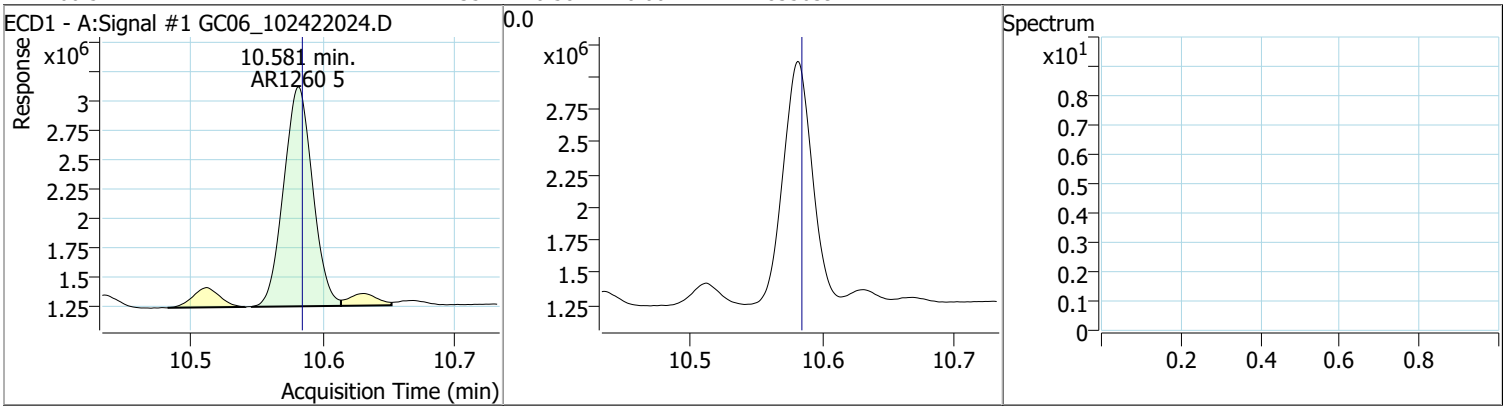
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	432.9684	10.22	0.00	1373501				



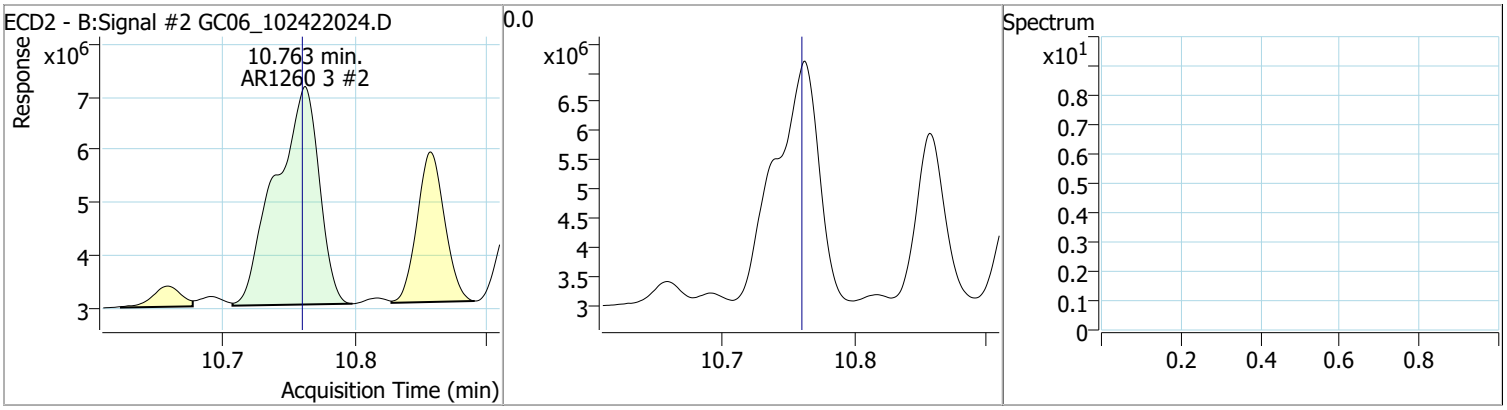
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	456.1048	10.34	0.00	7171316				



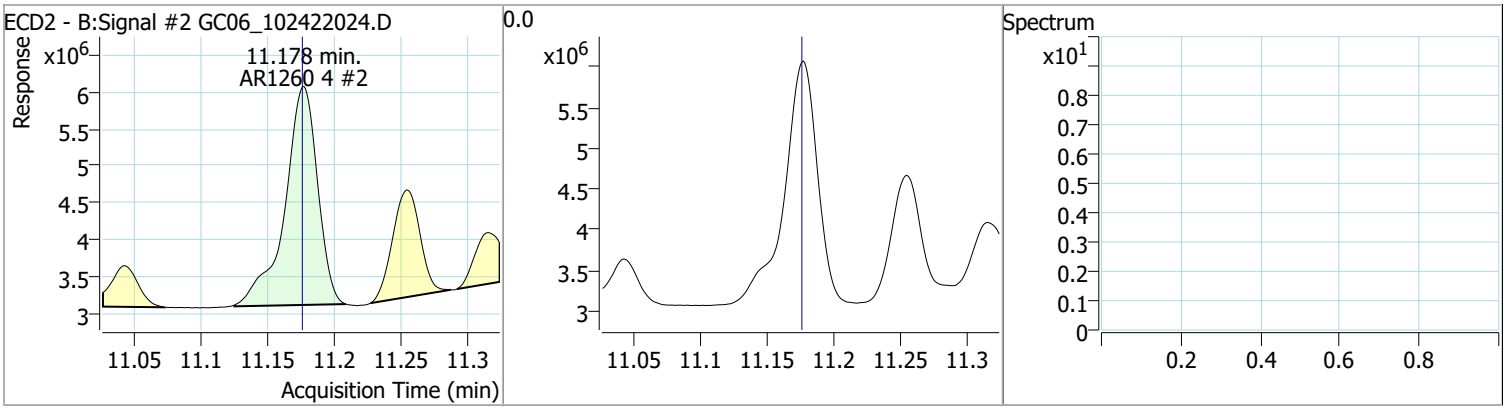
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	421.1135	10.58	0.00	2835639				



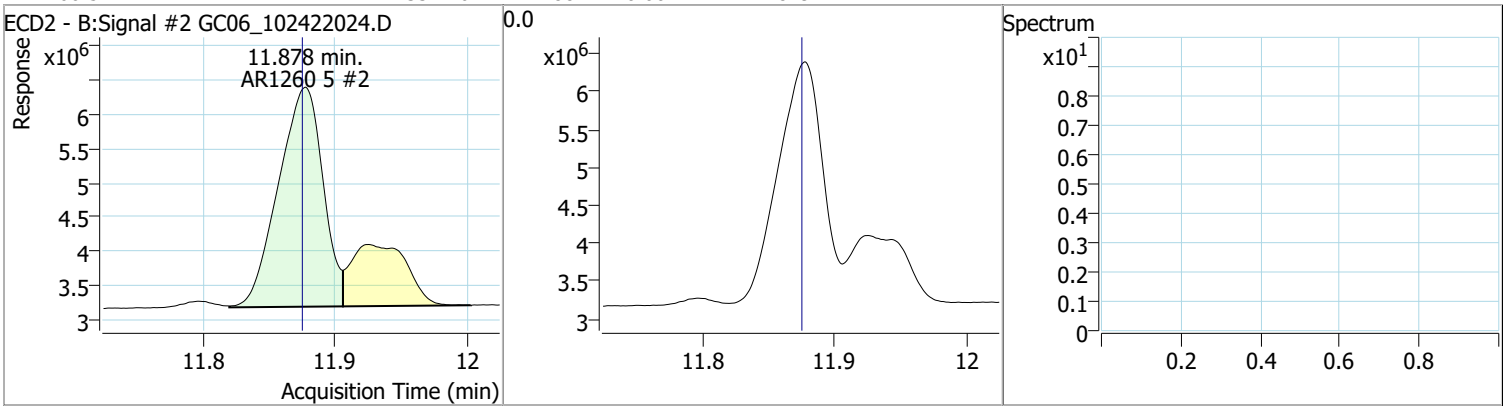
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	475.2419	10.76	0.00	9458174				



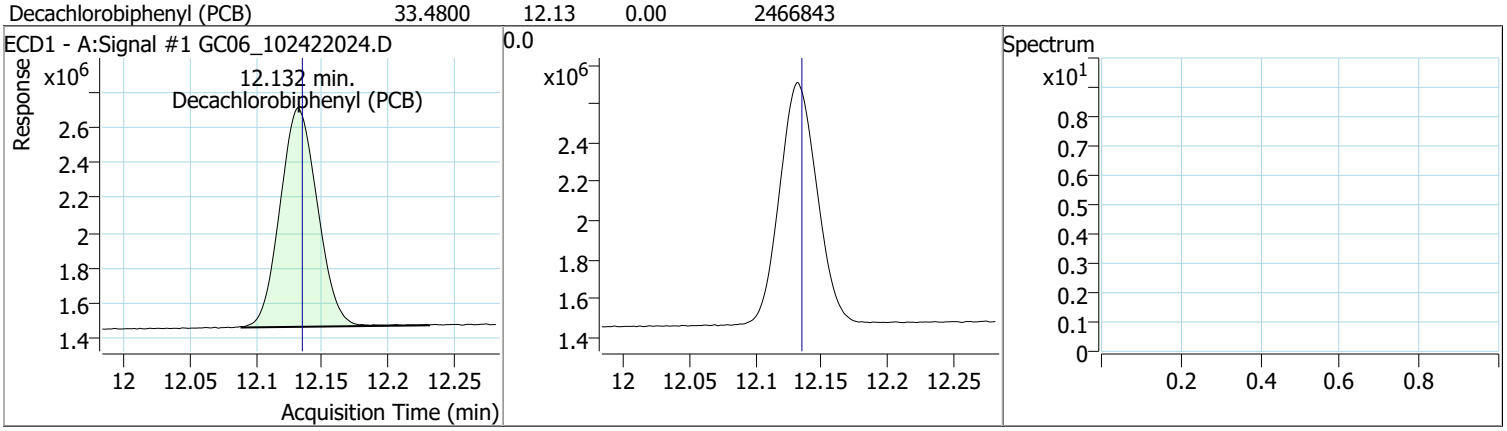
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	443.8244	11.18	0.00	5106289				



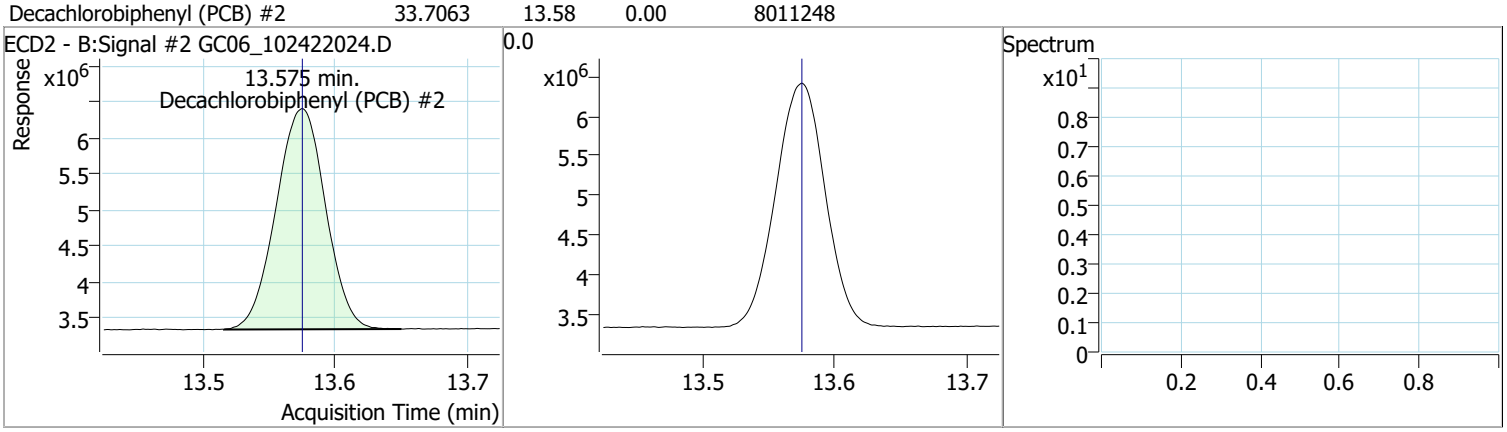
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	433.7764	11.88	0.00	7482914				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	33.4800	12.13	0.00	2466843				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	33.7063	13.58	0.00	8011248				



Continuing Calibration Verification Raw Data

ENTHALPY CONTINUING CALIBRATION FOR 474713 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06			IDF:	1.0
Seqnum:	452501809036	File:	gc06_121422036	Time:	14-DEC-2022 22:46
Cal:	452428510002	Caldate:	24-OCT-2022		

Standards: S17386

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	455.9	ug/L	-9	15	0.0000	
Aroclor-1260	A			500.0	410.5	ug/L	**-18**	15	0.0000	**c-** ***
Decachlorobiphenyl (PCB)	A	1.4080	1.6604	40.00	50.47	ug/L	**26**	15	0.0000	c+
TCMX (PCB)	A	0.9616	0.9149	40.00	38.06	ug/L	-5	15	0.0000	
Aroclor-1016	B			500.0	454.3	ug/L	-9	15	0.0000	
Aroclor-1260	B			500.0	453.4	ug/L	-9	15	0.0000	
Decachlorobiphenyl (PCB)	B	1.2084	1.2913	40.00	48.66	ug/L	**22**	15	0.0000	c+
TCMX (PCB)	B	0.9605	0.9121	40.00	37.98	ug/L	-5	15	0.0000	

ISTD (ICAL gc06_102422015)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	4414084	5560467	25.97
1-bromo-2-nitrobenzene (PCB)	A	1096423	1170615	6.77

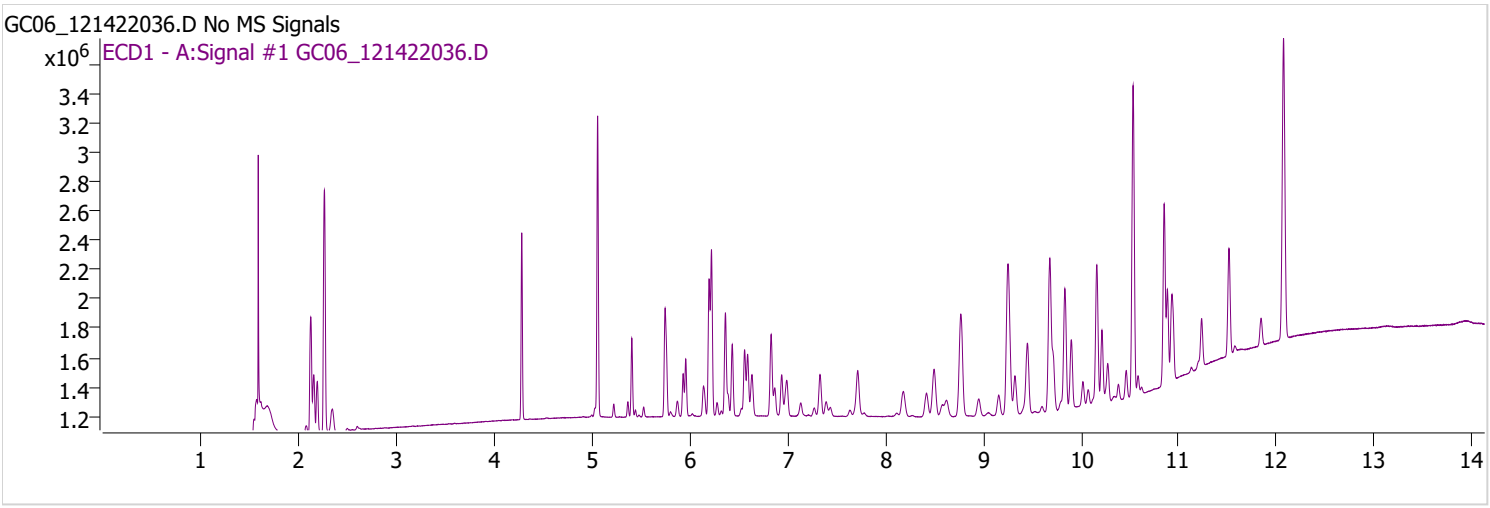
MES 12/15/22 [Aroclor-1016 B]: Separated from coeluting peak for Ch. B.

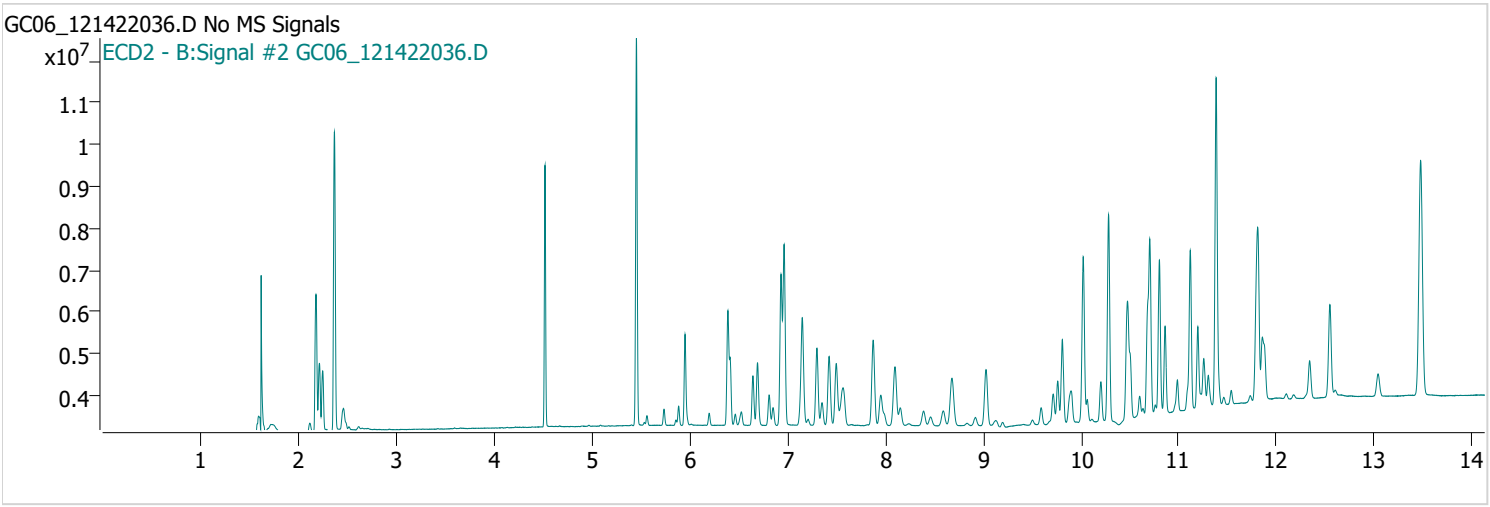
+=high bias -=low bias c=CCV

Analyst: MES 12/15/22 **Reviewer:** LW 12/15/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_121422036.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/14/2022 10:46:13 PM
Sample Name	CCV, S17386	Instrument	SVOA-GC06
Vial	144	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_11.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	121422PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



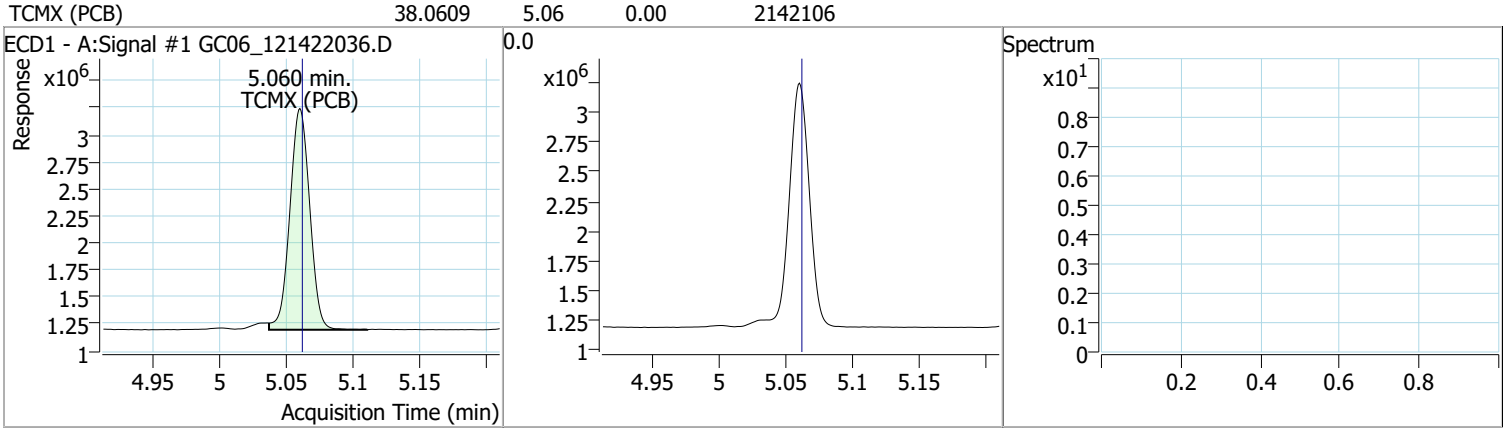


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.284	0.0	1170614.891	20.0000	ng/ml		-0.002
M 1-bromo-2-nitrobenzene (PCB) #2	4.523	0.0	5560466.743	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.060	0.0	2142105.786	38.0609	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 190.30%		*	
S TCMX (PCB) #2	5.457	0.0	10143002.715	37.9833	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 189.92%		*	
S Decachlorobiphenyl (PCB)	12.070	0.0	3887450.334	50.4694	ng/ml		-0.008
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 252.35%		*	
S Decachlorobiphenyl (PCB) #2	13.471	0.0	14360207.132	48.6607	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 243.30%		*	
Target Compounds							QValue

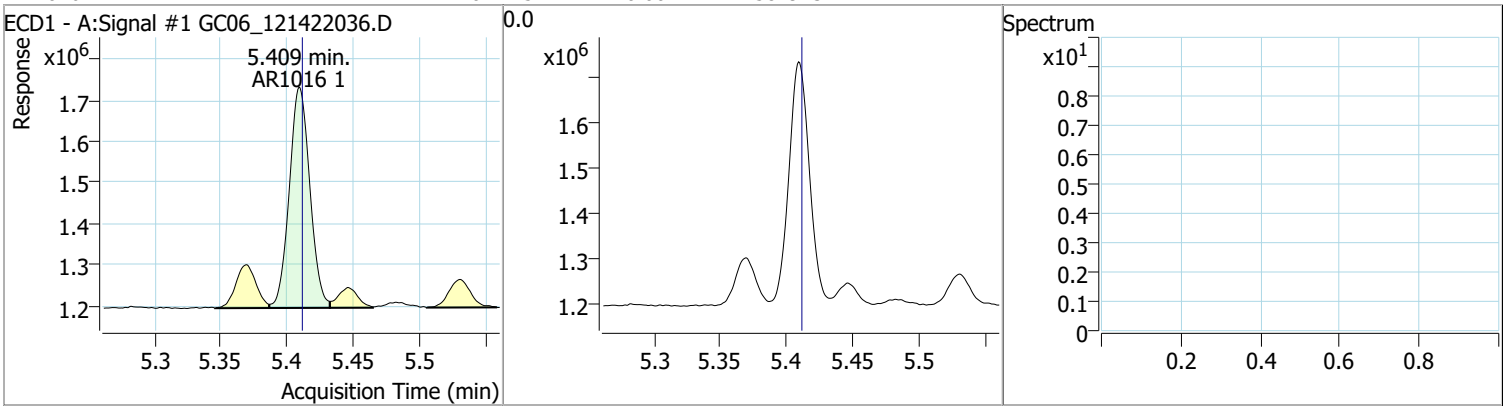
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.409	0.0	581923.263	474.1470	ng/ml		100
T AR1016 2	5.750	0.0	1240467.750	492.9343	ng/ml		100
T AR1016 1 #2	5.953	0.0	2803596.784	485.1257	ng/ml		100
T AR1016 3	6.223	0.0	1485471.598	477.3799	ng/ml		100
T AR1016 4	6.366	0.0	1142611.085	482.7964	ng/ml		100
T AR1016 2 #2	6.392	0.0	4003829.191	479.9365	ng/ml	m	100
T AR1016 5	6.562	0.0	671733.158	352.3874	ng/ml		100
T AR1016 3 #2	6.966	0.0	7071121.104	466.4872	ng/ml		100
T AR1016 4 #2	7.152	0.0	5119860.779	473.1151	ng/ml		100
T AR1016 5 #2	7.302	0.0	3228212.132	366.9976	ng/ml		100
T AR1260 1	8.772	0.0	1715585.022	433.4614	ng/ml		100
T AR1260 2	9.255	0.0	2611796.697	432.9543	ng/ml		100
T AR1260 3	9.682	0.0	2780301.428	440.9482	ng/ml		100
T AR1260 1 #2	10.023	0.0	6971544.602	421.2953	ng/ml		100
T AR1260 4	10.162	0.0	1666849.357	485.0722	ng/ml		100
T AR1260 2 #2	10.282	0.0	8492123.601	427.1122	ng/ml		100
T AR1260 3 #2	10.703	0.0	9880429.306	392.5936	ng/ml		100
T AR1260 5	10.850	0.0	1953045.681	260.1344	ng/ml		100
T AR1260 4 #2	11.117	0.0	6295125.783	432.0895	ng/ml		100
T AR1260 5 #2	11.381	0.0	12813113.069	593.9738	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

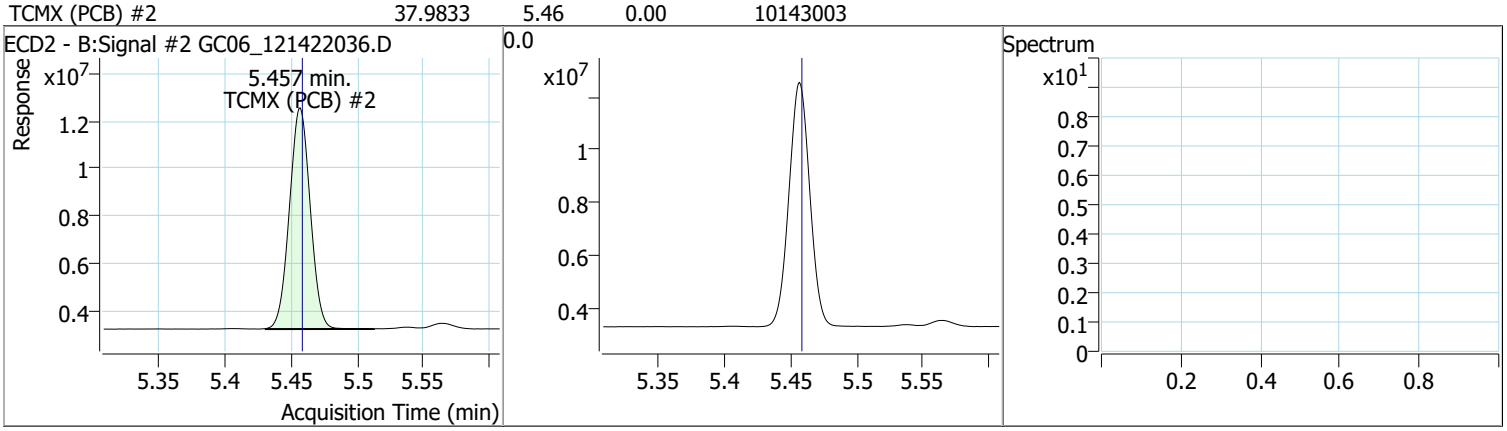
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	38.0609	5.06	0.00	2142106				



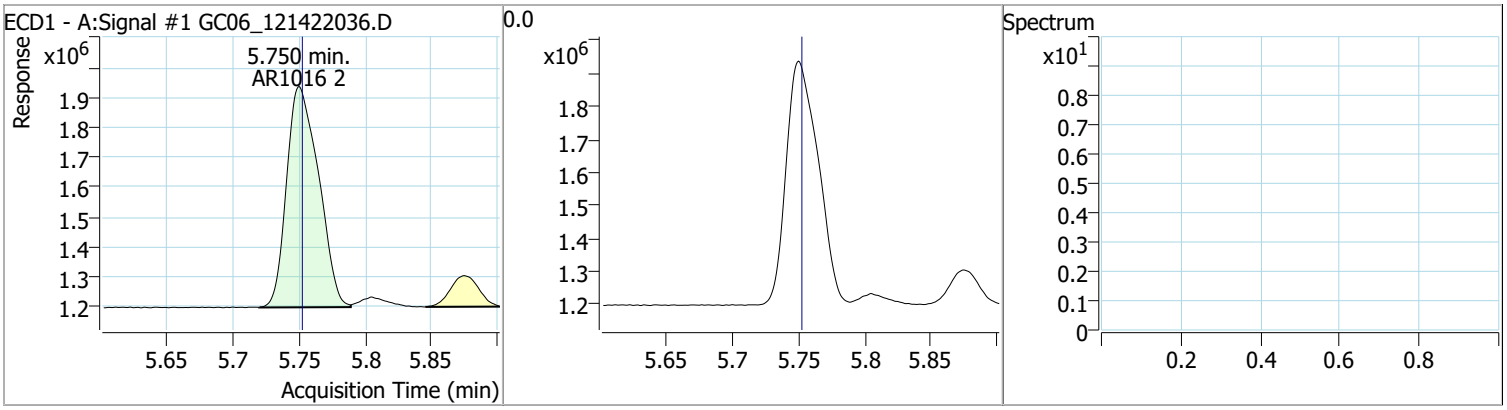
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	474.1470	5.41	0.00	581923				



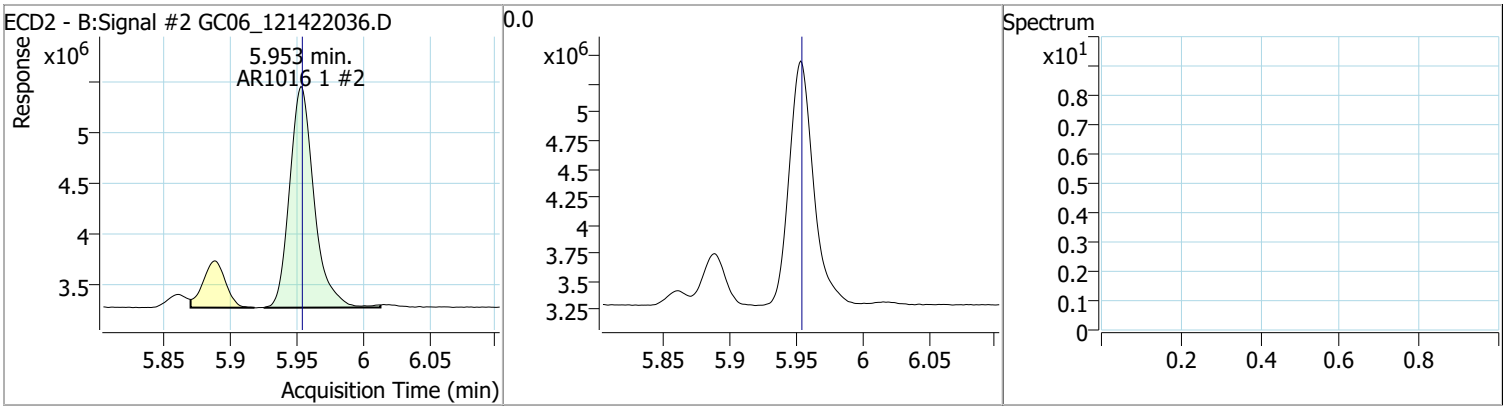
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	37.9833	5.46	0.00	10143003				



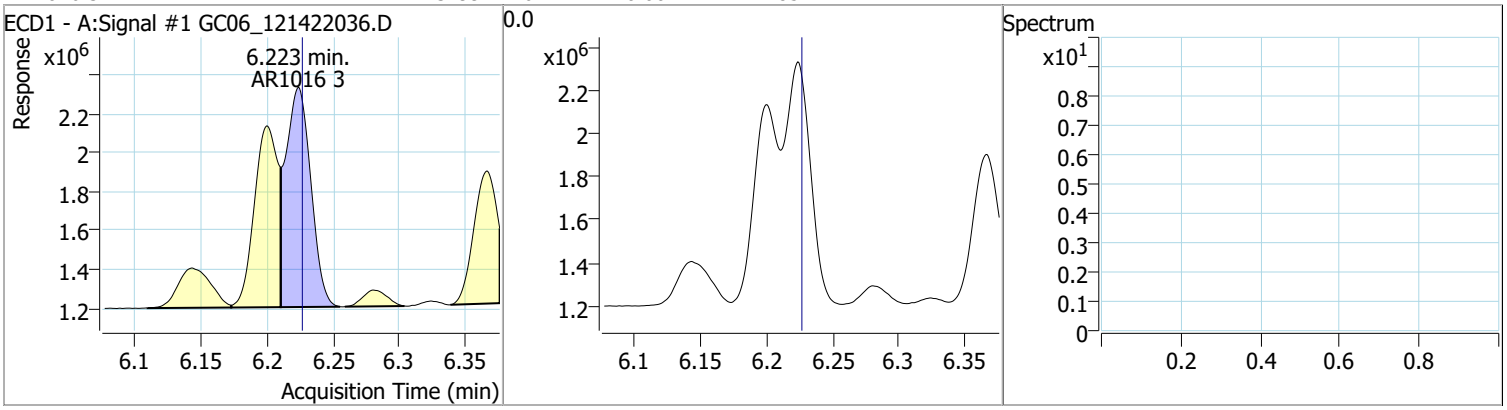
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	492.9343	5.75	0.00	1240468				



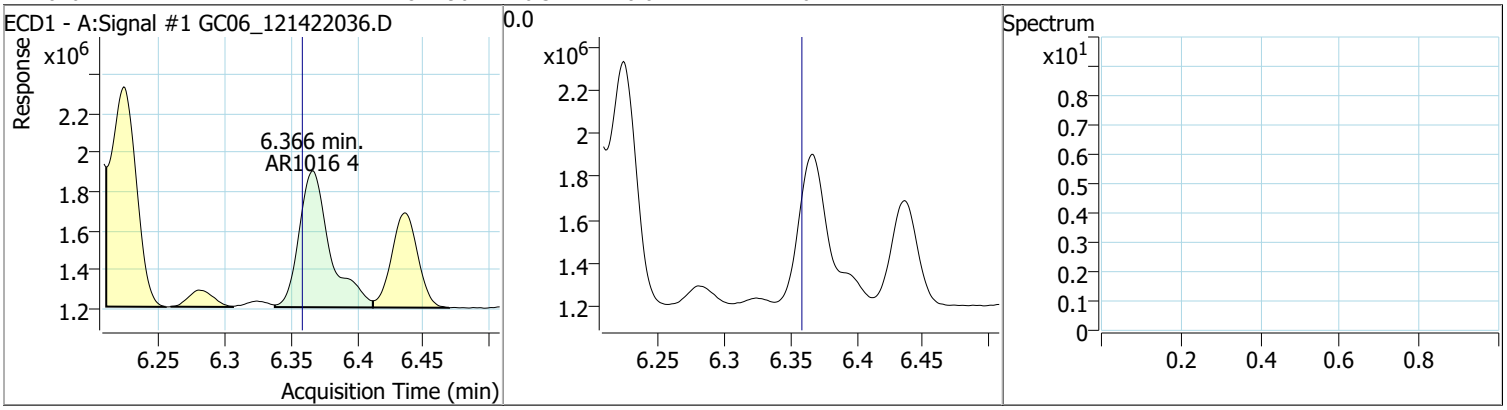
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	485.1257	5.95	0.00	2803597				



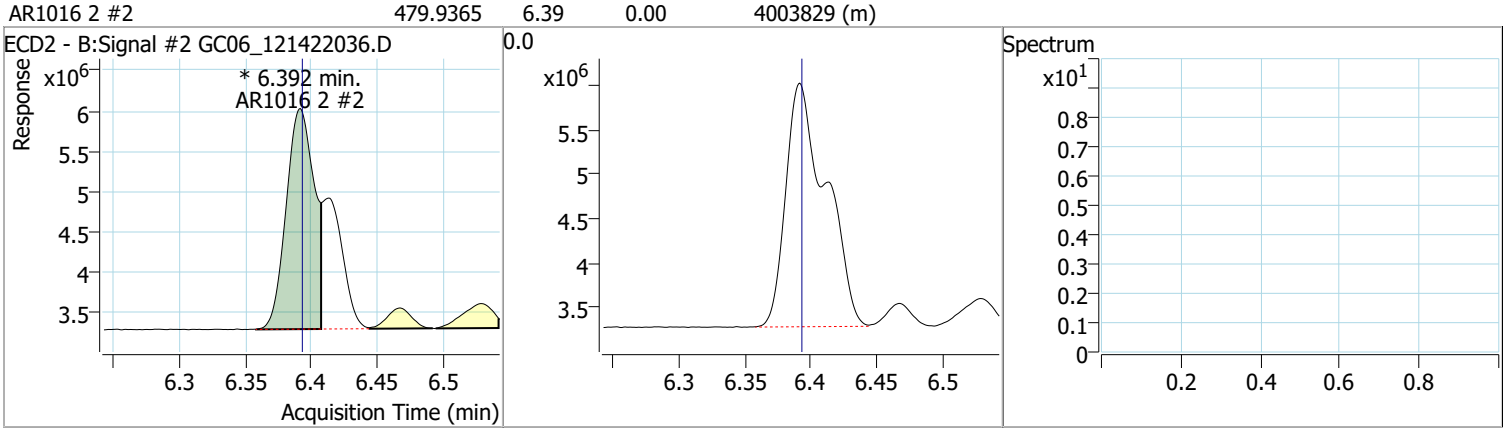
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	477.3799	6.22	0.00	1485472				



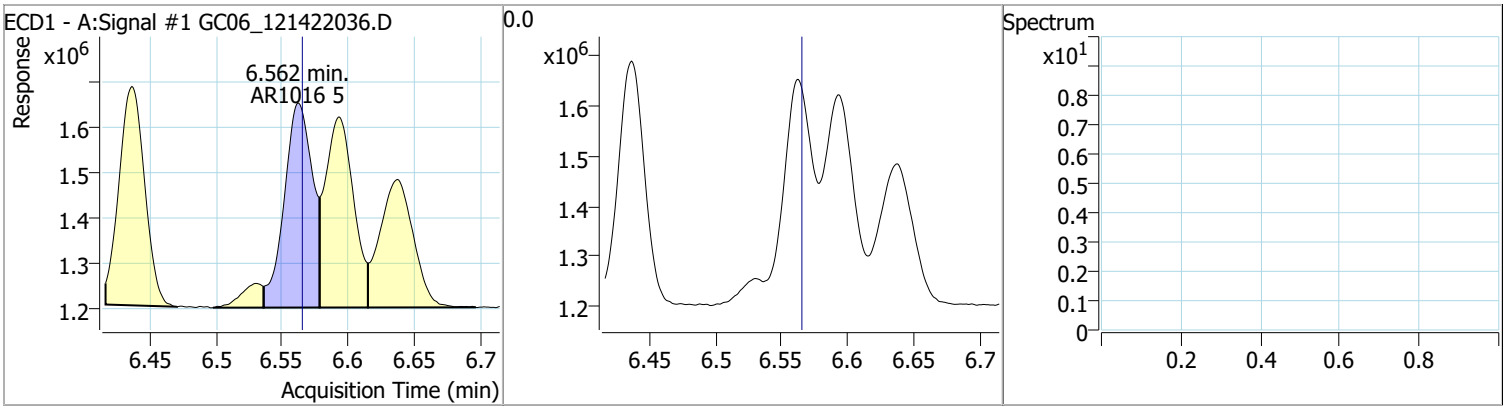
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	482.7964	6.37	0.01	1142611				



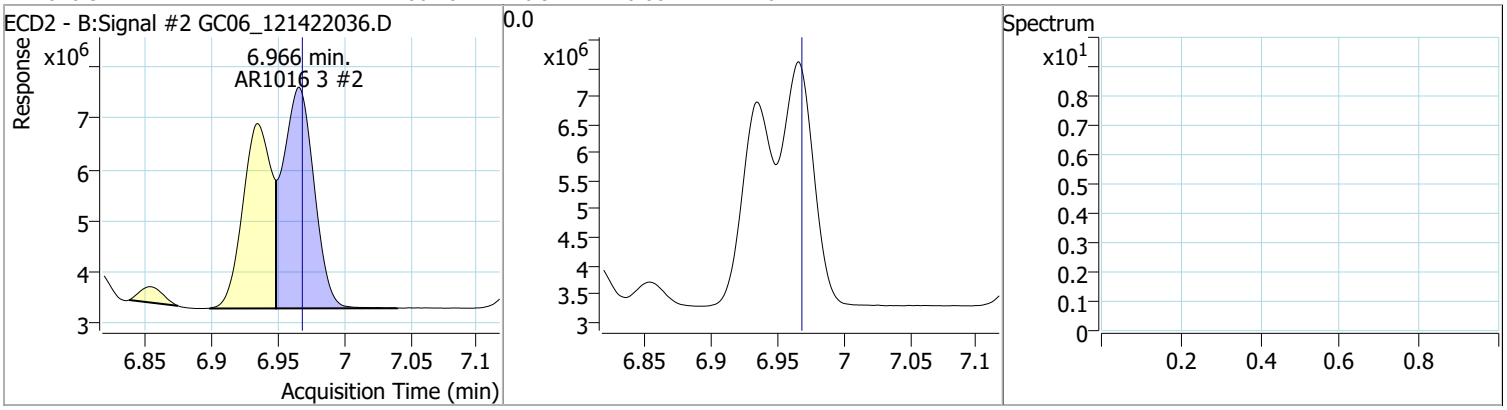
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	479.9365	6.39	0.00	4003829 (m)				



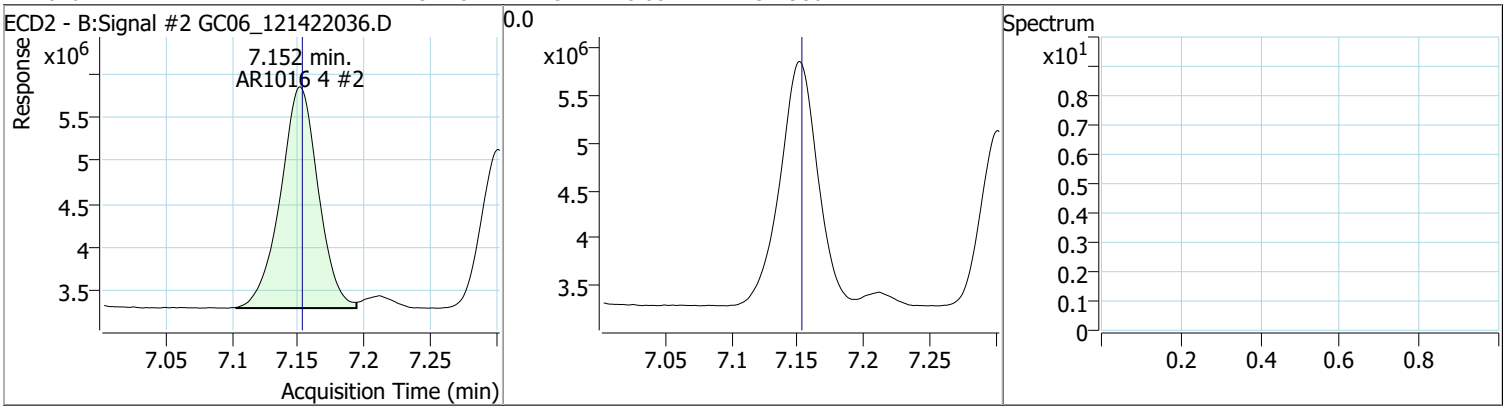
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	352.3874	6.56	-0.01	671733				



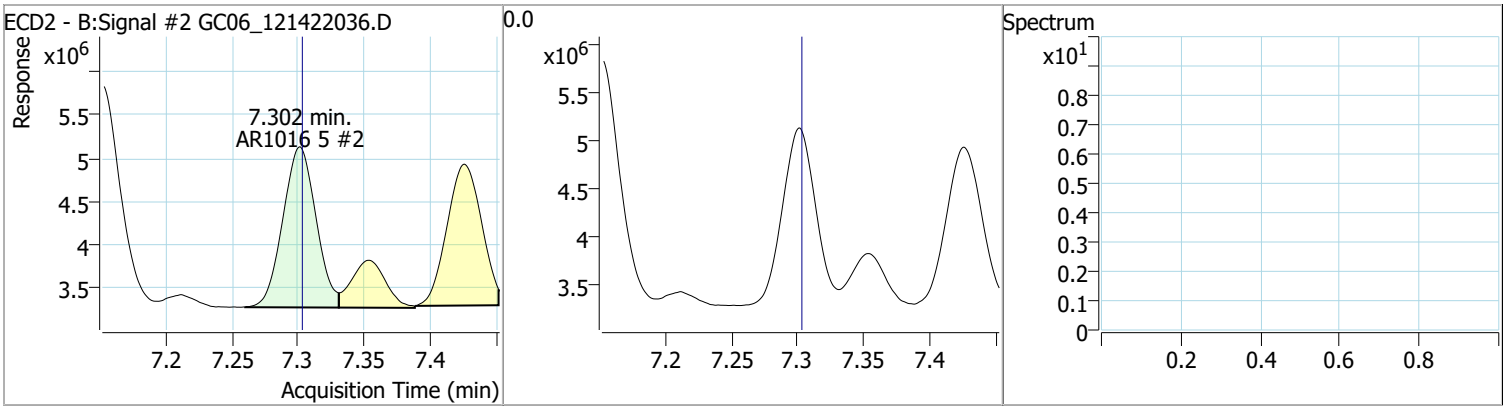
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AR1016 3 #2	466.4872	6.97	0.00	7071121				



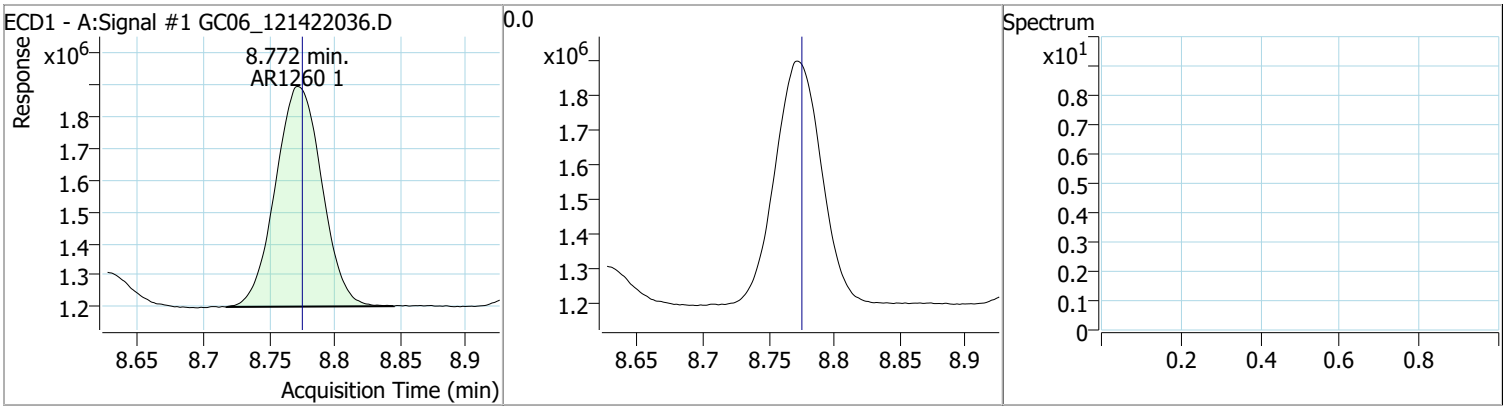
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	473.1151	7.15	0.00	5119861				



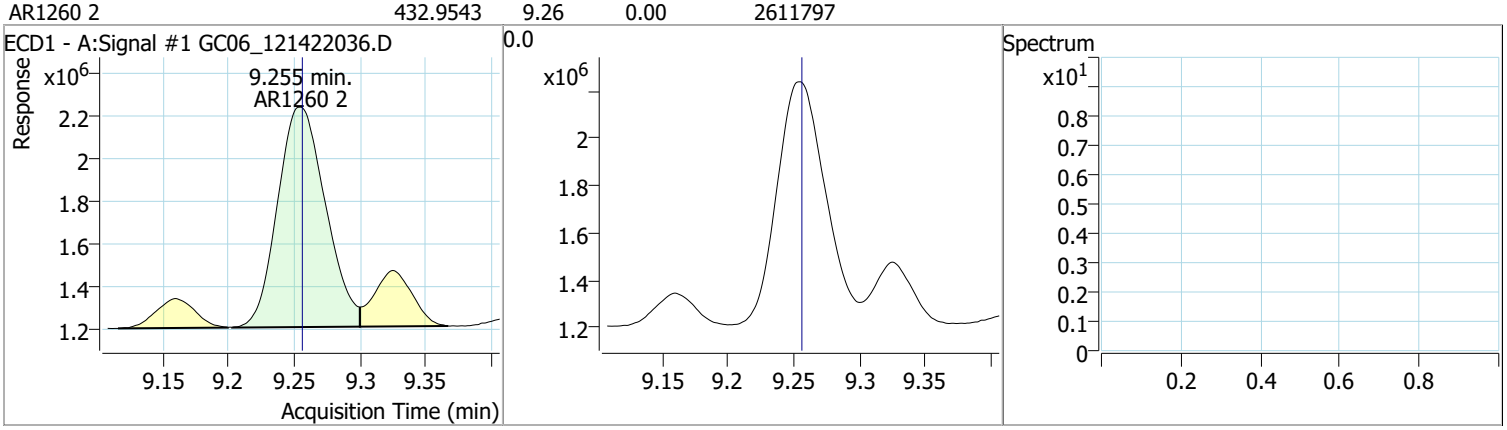
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AR1016 5 #2	366.9976	7.30	0.00	3228212				



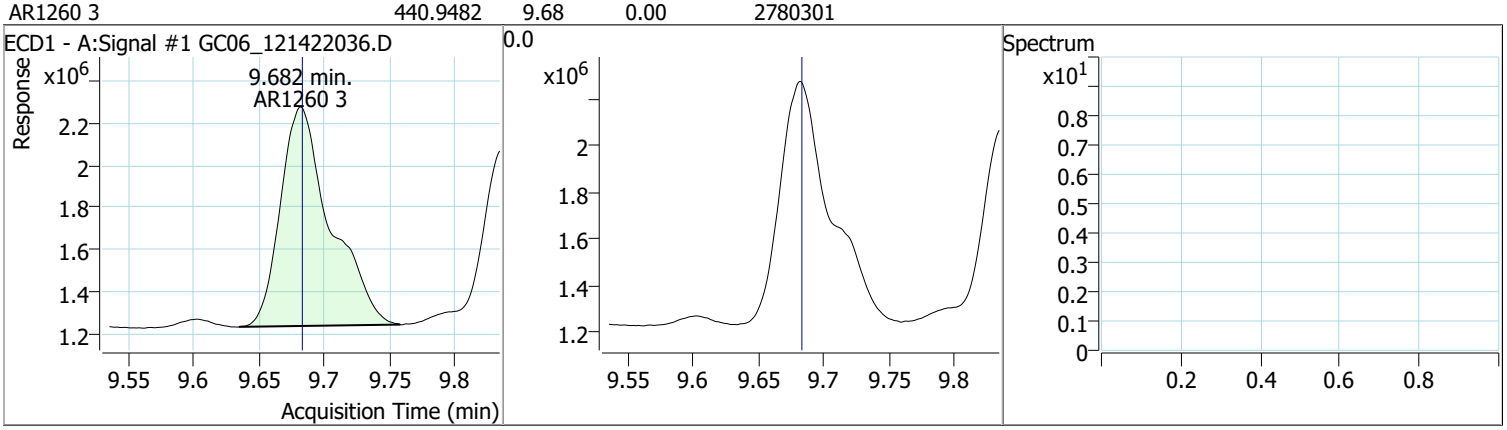
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	433.4614	8.77	-0.01	1715585				



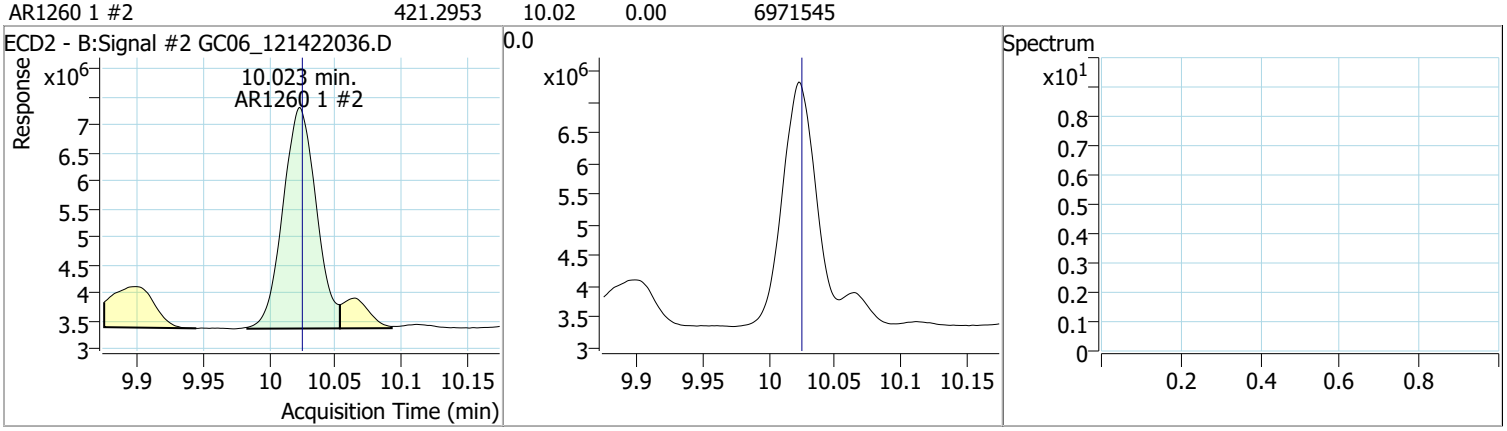
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	432.9543	9.26	0.00	2611797				



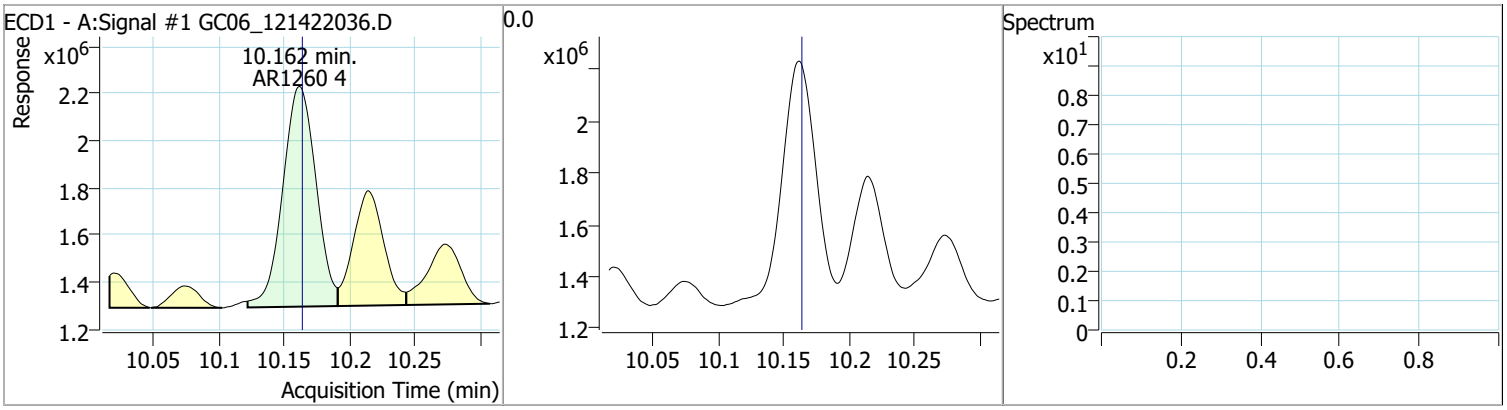
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AR1260 3	440.9482	9.68	0.00	2780301				



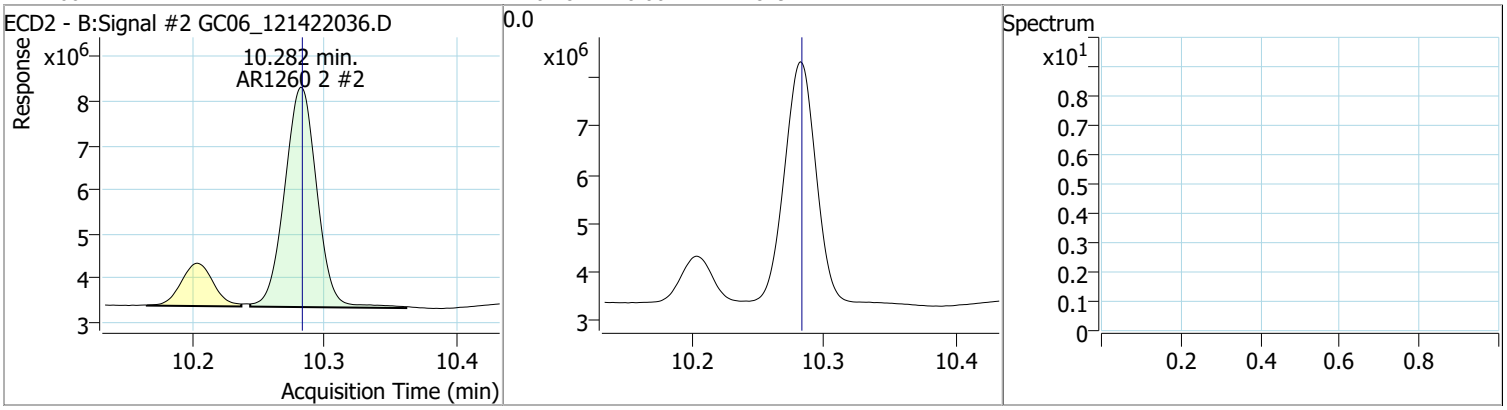
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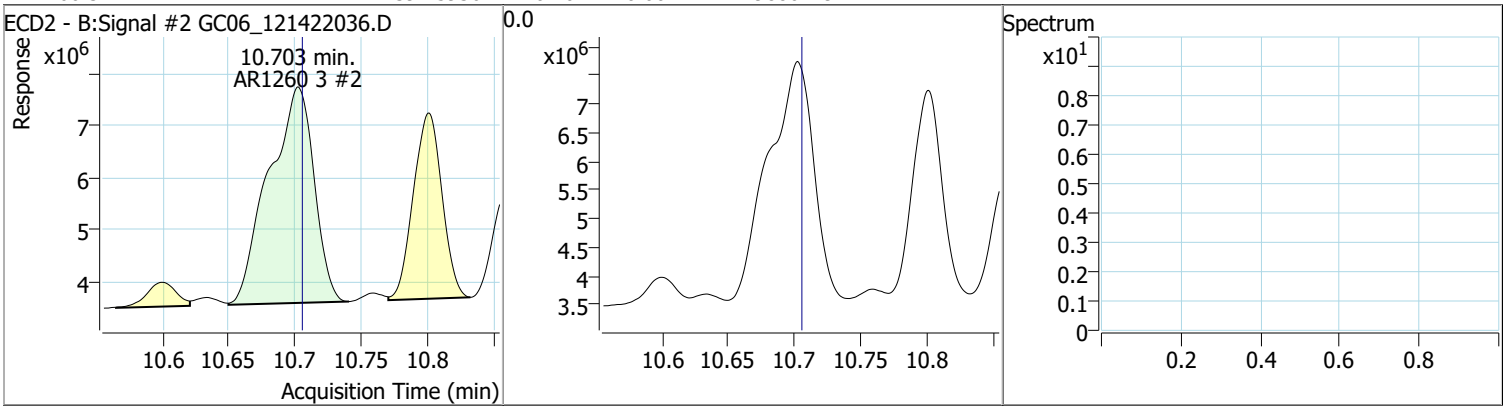
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AR1260 4	485.0722	10.16	-0.01	1666849				



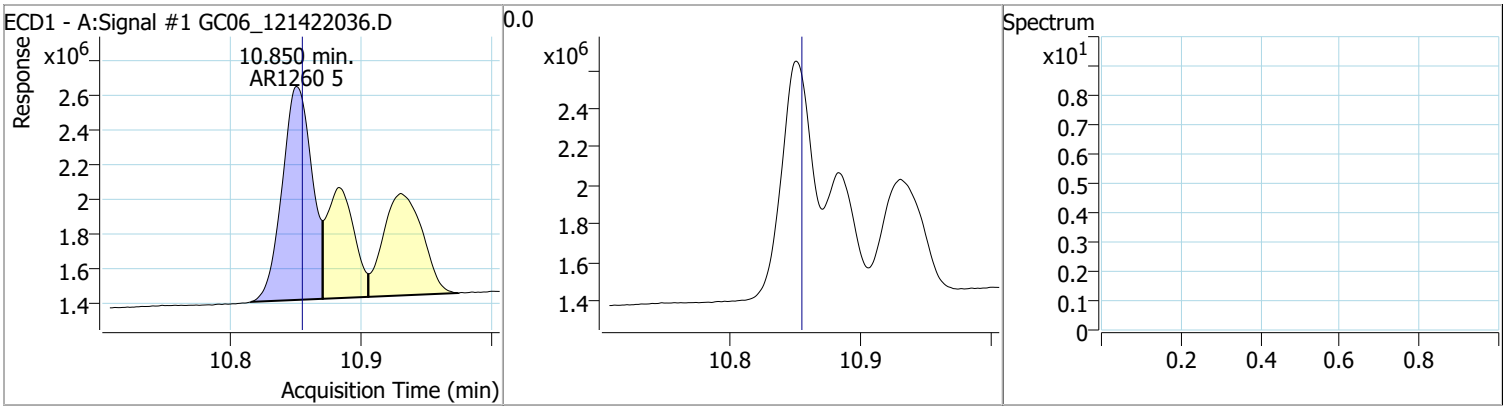
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AR1260 2 #2	427.1122	10.28	0.00	8492124				



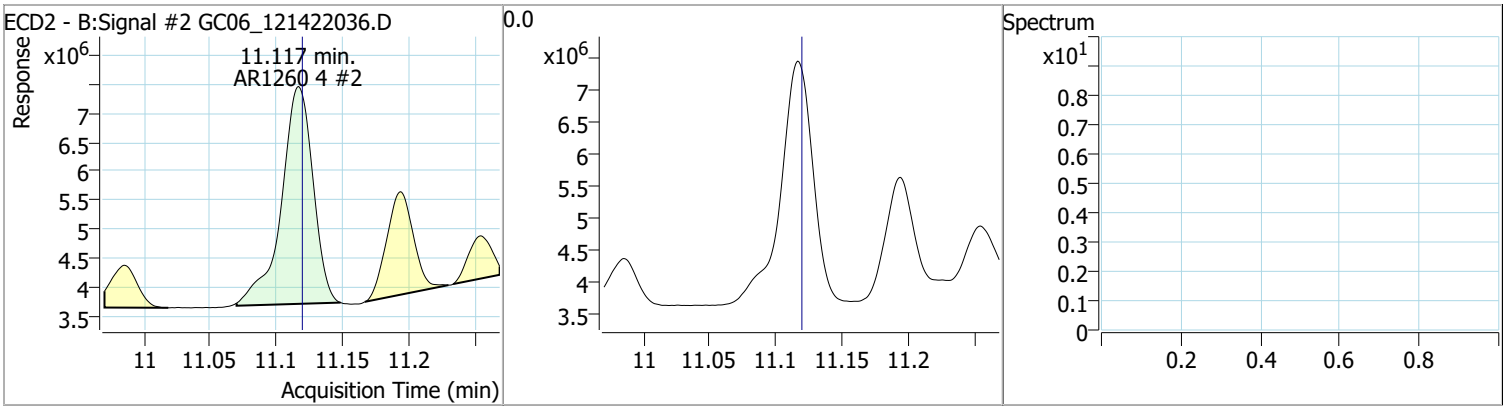
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	392.5936	10.70	0.00	9880429				



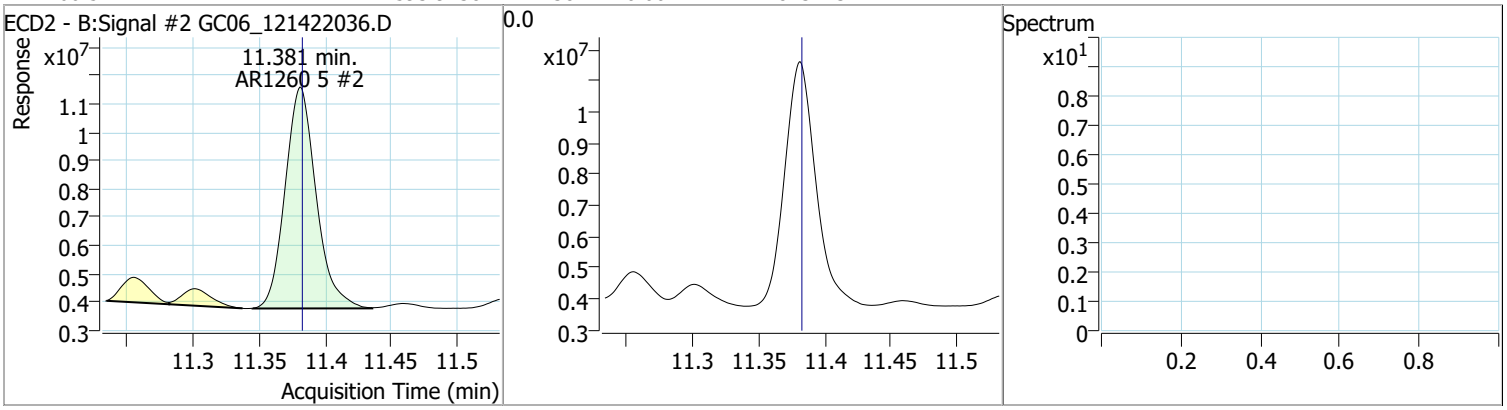
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	260.1344	10.85	-0.01	1953046				



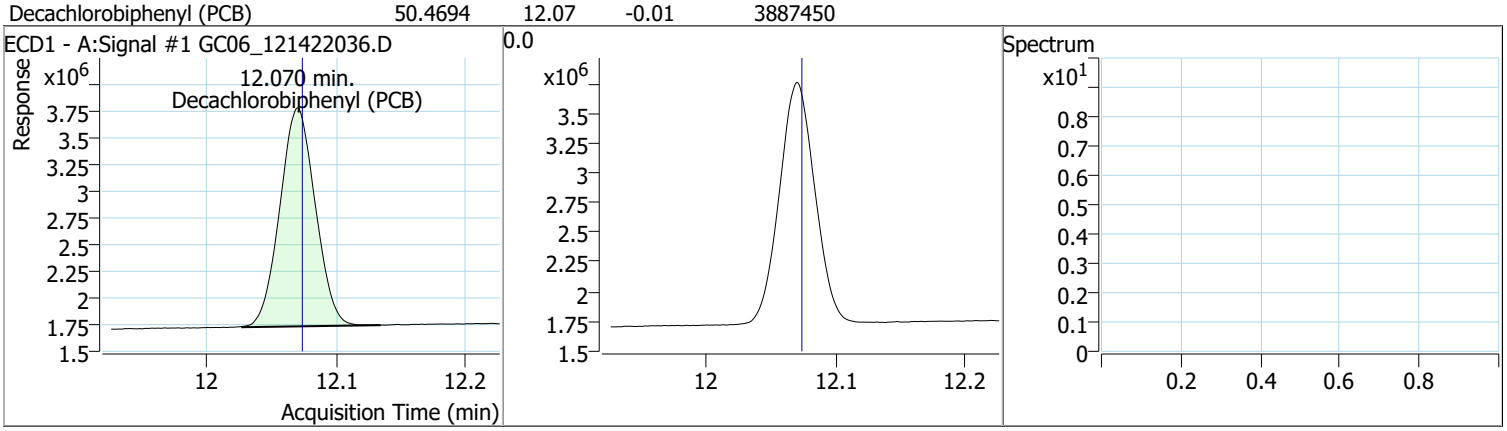
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AR1260 4 #2	432.0895	11.12	0.00	6295126				



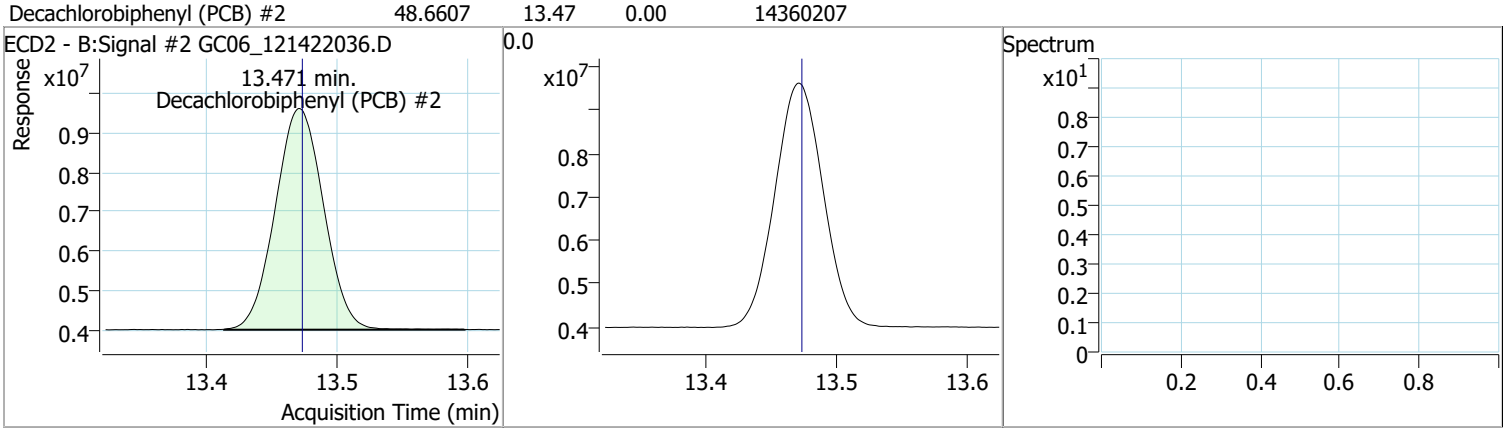
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	593.9738	11.38	0.00	12813113				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	50.4694	12.07	-0.01	3887450				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	48.6607	13.47	0.00	14360207				



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 474718
Report Level: IV
Report Date: 02/07/2023

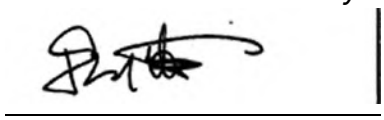
Metals

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	474718
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	12/09/22

Sample ID	Lab ID	Collected	Matrix
ARCH-C5W-EXT-1 TO 2-221209-L-WF	474718-001	12/09/22 12:30	Wipe
ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-L-LA	474718-002	12/09/22 12:45	Wipe
ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-L-LA	474718-003	12/09/22 13:10	Wipe
ARCH-C5W-INT-4.5 TO 5.5-221209-L-WF	474718-004	12/09/22 13:50	Wipe
ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-L-LA	474718-005	12/09/22 13:30	Wipe

ENTHALPY ANALYTICAL

Case Narrative

METALS (EPA 6010B)

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 474718 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 12/09/22

This data package contains sample and QC results for five wipe samples, requested for the above referenced project on 12/10/22. See attached cooler receipt form for any sample receipt problems or discrepancies. Revised and reissued 2/7/23 to correct a sample ID.

Metals (EPA 6010B):
No analytical problems were encountered.

Chain of Custody

JG

474718

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:		5 Day:		3 Day:	
2 Day:		1 Day:	X	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level IV

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Lead by EPA Method 3050M/6010B	HOLD
1	ARCH-C5W-EXT-1 TO 2-221209-L- WF	12/9/2022	1230	WP	1		X	
2	ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-L-LA	12/9/2022	1245	WP	1		X	
3	ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-L- LA	12/9/2022	1310	WP	1		X	
4	~~ARCH-C3W-DG-4 TO 4.5-221209-L-~~	~~12/9/2022~~		~~WP~~	~~1~~		~~X~~	
5	ARCH-C5W-INT-4.5 TO 5.5-221209-L- WF	12/9/2022	1350	WP	1		X	
6	ARCH-C2W-DG-4TO4.5-UP-	12/9/22	1330	WP	1		X	
7	C2.7-DG-221209-L-LA							
8								
9								
10								
11								
12								
13								
14								
15								

Analysis Request

Test Instructions / Comments

Confirmation Wipe Samples - Level IV Report/Stage 3 Validation

Report lead concentrations on a $\mu g/ft^2$ basis

Wipe samples collected from Zone 3 Enclosure C/D

2x Rivet Type 2 = 0.0200ft2 MK

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michaela Kim	Rincon / Env Scientist	12/9/22 @ 1530
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	12/9/22 @ 15:30
2 Relinquished By:	Audrey Hudson	"	"	12/9/22 16:50
2 Received By:		Jon Peterson	EA	12/9/22 16:50
3 Relinquished By:		Jon Peterson	EA	12.9.22 17:32
3 Received By:		Elizabeth Ramm	EA	12/10/22 8:05

Cooler #7: 3.4 | 25

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

474718 JSP

SAMPLE RECEIPT CHECKLIST

Section 1: Login # [redacted] Client: Rincon

Date Received: 12.9.22 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 12.9.22 By (print) Jak Peterson (sign) [signature]

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☑ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 12.9.22 **By (print)** JP for MY **(sign)** [signature]

Date Labeled 12.9.22 **By (print)** Jak Peterson **(sign)** [signature]

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon

Project: Hangar 1 -NCTRA WP

Date Received: 12/10/22

Sampler's Name Present: ☐ Yes ☑ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 3.4 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: TPX

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☑ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.5 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?		✔	
If custody seals are present, were they intact?			✔
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✔		
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 12/10/22

Results & QC Summary

ENTHALPY ANALYTICAL

Lead

Lab #: 474718 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-EXT-1 TO 2-221209-L-WF **Batch#:** 302987 **Prep:** EPA 3010A
Type: SAMPLE **Sampled:** 12/09/22 **Analysis:** EPA 6010B
Lab ID: 474718-001 **Received:** 12/09/22 **Analyst:** KLN
Matrix: Wipe **Prepared:** 12/12/22
Diln Fac: 1.000 **Analyzed:** 12/12/22

474718-001 Analyte	Result	RL	Units
Lead	**11**	0.25	ug/ft2

Field ID: ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-L-LA **Batch#:** 302987 **Prep:** EPA 3010A
Type: SAMPLE **Sampled:** 12/09/22 **Analysis:** EPA 6010B
Lab ID: 474718-002 **Received:** 12/09/22 **Analyst:** KLN
Matrix: Wipe **Prepared:** 12/12/22
Diln Fac: 1.000 **Analyzed:** 12/12/22

474718-002 Analyte	Result	RL	Units
Lead	**4.5**	0.25	ug/ft2

Field ID: ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-L-LA **Batch#:** 302987 **Prep:** EPA 3010A
Type: SAMPLE **Sampled:** 12/09/22 **Analysis:** EPA 6010B
Lab ID: 474718-003 **Received:** 12/09/22 **Analyst:** KLN
Matrix: Wipe **Prepared:** 12/12/22
Diln Fac: 1.000 **Analyzed:** 12/12/22

474718-003 Analyte	Result	RL	Units
Lead	**10**	0.25	ug/ft2

Field ID: ARCH-C5W-INT-4.5 TO 5.5-221209-L-WF **Batch#:** 302987 **Prep:** EPA 3010A
Type: SAMPLE **Sampled:** 12/09/22 **Analysis:** EPA 6010B
Lab ID: 474718-004 **Received:** 12/09/22 **Analyst:** KLN
Matrix: Wipe **Prepared:** 12/12/22
Diln Fac: 1.000 **Analyzed:** 12/12/22

474718-004 Analyte	Result	RL	Units
Lead	**6.8**	0.25	ug/ft2

Field ID: ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-L-LA **Batch#:** 302987 **Prep:** EPA 3010A
Type: SAMPLE **Sampled:** 12/09/22 **Analysis:** EPA 6010B
Lab ID: 474718-005 **Received:** 12/09/22 **Analyst:** KLN
Matrix: Wipe **Prepared:** 12/12/22
Diln Fac: 1.000 **Analyzed:** 12/12/22

474718-005 Analyte	Result	RL	Units
Lead	**9.5**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 474718 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type:	BLANK	**Batch#:**	302987	**Analysis:**	EPA 6010B
Lab ID:	QC1031371	**Prepared:**	12/12/22	**Analyst:**	KLN
Matrix:	Wipe	**Analyzed:**	12/12/22		
DiIn Fac:	1.000	**Prep:**	EPA 3010A		

QC1031371 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 474718 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 302987 **Analysis:** EPA 6010B

Lab ID: QC1031441 **Prepared:** 12/12/22 **Analyst:** KLN

Matrix: Wipe **Analyzed:** 12/12/22

DiIn Fac: 1.000 **Prep:** EPA 3010A

QC1031441 Analyte	Spiked	Result	%REC	Limits	Units
Lead	100.0	97.89	98	80-120	ug/ft2

Type: BSD **Batch#:** 302987 **Analysis:** EPA 6010B

Lab ID: QC1031442 **Prepared:** 12/12/22 **Analyst:** KLN

Matrix: Wipe **Analyzed:** 12/12/22

DiIn Fac: 1.000 **Prep:** EPA 3010A

QC1031442 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	100.0	99.94	100	80-120	ug/ft2	2	20

Legend

RPD: Relative Percent Difference

REPORTING SUMMARY FOR 474718 METALS Wipe
Enthalpy Analytical - Orange

Lab ID	Inst ID	Analyzed	IDF	PB	
474718-001	MET06	12/12/22 14:28	1.0	+	
474718-002	MET06	12/12/22 14:31	1.0	+	
474718-003	MET06	12/12/22 14:35	1.0	+	
474718-004	MET06	12/12/22 14:38	1.0	+	
474718-005	MET06	12/12/22 14:41	1.0	+	
QC1031371	MET06	12/12/22 15:55	1.0	+	
QC1031441	MET06	12/12/22 14:22	1.0	+	
QC1031442	MET06	12/12/22 14:25	1.0	+	

Enthalpy Sequence Summary for Sequence 482498973

Instrument: MET06 Begun: 12/12/22 12:13
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met06_master	ICALBLK	CALBLANK			12/12/22 12:13	1.0	1	
002	met06_master	ICALBLK	CALBLANK			12/12/22 12:16	1.0	1	
003	met06_master	ICALBLK	CALBLANK			12/12/22 12:36	1.0	1	
004	met06_master	ICALBLK	CALBLANK			12/12/22 12:45	1.0	1	
005	met06_master	ICALBLK	CALBLANK			12/12/22 12:51	1.0	1	
006	met06_master	ICAL	L1			12/12/22 12:54	1.0	2 1	
007	met06_master	ICAL	L2			12/12/22 12:57	1.0	3 1	
008	met06_master	ICAL	L3			12/12/22 13:00	1.0	4 1	
009	met06_master	ICAL	L4			12/12/22 13:04	1.0	5 1	
010	met06_master	ICAL	L5			12/12/22 13:07	1.0	6 1	
011	met06_master	ICAL	L6			12/12/22 13:10	1.0	7 1	
012	met06_master	ICAL	L7			12/12/22 13:13	1.0	8 1	
013	met06_master	ICAL	L8			12/12/22 13:17	1.0	9 1	
014	met06_master	ICV				12/12/22 13:20	1.0	10 1	
015	met06_master	CRI				12/12/22 13:25	1.0	11 1	
016	met06_master	ICB				12/12/22 13:32	1.0	1	
017	met06_master	ICSA				12/12/22 13:35	1.0	12 1	5:MGASMGCO3=1500
018	met06_master	ICSAB				12/12/22 13:38	1.0	13 1	5:MGASMGCO3=1500
019	met06_master	XCRI				12/12/22 13:42	1.0	14 1	
020	met06_master	CRI				12/12/22 13:48	1.0	14 1	
021	met06_master	SAMPLE	474442-002	Soil	302696	12/12/22 13:52	1.0	1	
022	met06_master	SAMPLE	474350-010	Soil	302697	12/12/22 13:55	1.0	1	1:FE=170
023	met06_master	SAMPLE	474350-011	Soil	302697	12/12/22 13:58	1.0	1	1:FE=210
024	met06_master	SAMPLE	474350-013	Soil	302697	12/12/22 14:01	1.0	1	1:FE=180
025	met06_master	SAMPLE	474350-014	Soil	302697	12/12/22 14:05	1.0	1	1:FE=170
026	met06_master	SAMPLE	474350-016	Soil	302697	12/12/22 14:08	1.0	1	

Enthalpy Sequence Summary for Sequence 482498973

Instrument: MET06 Begun: 12/12/22 12:13
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
027	met06_master	SAMPLE	474350-017	Soil	302697	12/12/22 14:11	1.0	1	1:FE=220
028	met06_master	CCV				12/12/22 14:14	1.0	10 1	
029	met06_master	CCB				12/12/22 14:18	1.0	1	
030	met06_master	BS	QC1031441	Wipe	302987	12/12/22 14:22	1.0	1	
031	met06_master	BSD	QC1031442	Wipe	302987	12/12/22 14:25	1.0	1	
032	met06_master	SAMPLE	474718-001	Wipe	302987	12/12/22 14:28	1.0	1	
033	met06_master	SAMPLE	474718-002	Wipe	302987	12/12/22 14:31	1.0	1	
034	met06_master	SAMPLE	474718-003	Wipe	302987	12/12/22 14:35	1.0	1	
035	met06_master	SAMPLE	474718-004	Wipe	302987	12/12/22 14:38	1.0	1	
036	met06_master	SAMPLE	474718-005	Wipe	302987	12/12/22 14:41	1.0	1	
037	met06_master	BLANK	QC1031057	Air	302900	12/12/22 14:44	1.0	1	
038	met06_master	BS	QC1031058	Air	302900	12/12/22 14:48	1.0	1	
039	met06_master	BSD	QC1031059	Air	302900	12/12/22 14:51	1.0	1	
040	met06_master	CCV				12/12/22 14:54	1.0	10 1	
041	met06_master	CCB				12/12/22 14:57	1.0	1	
042	met06_master	SAMPLE	474638-001	Air	302900	12/12/22 15:01	1.0	1	
043	met06_master	SAMPLE	474638-003	Air	302900	12/12/22 15:05	1.0	1	
044	met06_master	SAMPLE	474638-005	Air	302900	12/12/22 15:08	1.0	1	
045	met06_master	BLANK	QC1031355	WET Leachate	302983	12/12/22 15:12	1.0	1	
046	met06_master	BS	QC1031356	WET Leachate	302983	12/12/22 15:15	1.0	1	
047	met06_master	BSD	QC1031357	WET Leachate	302983	12/12/22 15:18	1.0	1	
048	met06_master	SAMPLE	473716-004	WET Leachate	302983	12/12/22 15:21	1.0	1	
049	met06_master	SAMPLE	473717-003	WET Leachate	302983	12/12/22 15:25	1.0	1	
050	met06_master	SAMPLE	473910-005	WET Leachate	302983	12/12/22 15:28	1.0	1	
051	met06_master	SAMPLE	474346-001	WET Leachate	302983	12/12/22 15:31	1.0	1	
052	met06_master	CCV				12/12/22 15:34	1.0	10 1	

Enthalpy Sequence Summary for Sequence 482498973

Instrument: MET06 Begun: 12/12/22 12:13

Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met06_master	CCB				12/12/22 15:41	1.0	1	
054	met06_master	BLANK	QC1031407	TCLP Leachate	302998	12/12/22 15:44	1.0	1	
055	met06_master	LCS	QC1031408	TCLP Leachate	302998	12/12/22 15:48	1.0	1	
056	met06_master	MSS	473926-001	TCLP Leachate	302998	12/12/22 15:51	1.0	1	
057	met06_master	BLANK	QC1031371	Wipe	302987	12/12/22 15:55	1.0	1	
058	met06_master	MS	QC1031409	TCLP Leachate	302998	12/12/22 15:58	1.0	1	
059	met06_master	MSD	QC1031410	TCLP Leachate	302998	12/12/22 16:01	1.0	1	
060	met06_master	SAMPLE	474326-001	TCLP Leachate	302998	12/12/22 16:04	1.0	1	1:NA=1000
061	met06_master	SAMPLE	474400-002	Soil	302717	12/12/22 16:08	1.0	1	1:FE=200
062	met06_master	SAMPLE	474400-004	Soil	302717	12/12/22 16:11	1.0	1	1:FE=210
063	met06_master	SAMPLE	474247-013	Soil	302696	12/12/22 16:14	1.0	1	
064	met06_master	CCV				12/12/22 16:18	1.0	10 1	
065	met06_master	CCB				12/12/22 16:23	1.0	1	
066	met06_master	SAMPLE	474247-014	Soil	302696	12/12/22 16:26	1.0	1	
067	met06_master	SAMPLE	474247-015	Soil	302696	12/12/22 16:30	1.0	1	
068	met06_master	SAMPLE	474247-016	Soil	302696	12/12/22 16:33	1.0	1	1:FE=180
069	met06_master	SAMPLE	474247-017	Soil	302696	12/12/22 16:36	1.0	1	1:FE=180
070	met06_master	SAMPLE	474247-018	Soil	302696	12/12/22 16:40	1.0	1	1:FE=170
071	met06_master	SAMPLE	474315-004	Soil	302696	12/12/22 16:43	1.0	1	2:FE=200
072	met06_master	SAMPLE	474333-007	Soil	302696	12/12/22 16:46	1.0	1	1:FE=250
073	met06_master	SAMPLE	474333-013	Soil	302696	12/12/22 16:49	1.0	1	1:FE=270
074	met06_master	SAMPLE	474333-017	Soil	302696	12/12/22 16:53	1.0	1	1:FE=220
075	met06_master	SAMPLE	474350-001	Soil	302696	12/12/22 16:56	1.0	1	
076	met06_master	CCV				12/12/22 16:59	1.0	10 1	
077	met06_master	XCCB				12/12/22 17:02	1.0	1	
078	met06_master	CCB				12/12/22 17:09	1.0	1	

Enthalpy Sequence Summary for Sequence 482498973

Instrument: MET06 Begun: 12/12/22 12:13
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
079	met06_master	SAMPLE	474350-002	Soil	302696	12/12/22 17:12	1.0	1	1:FE=200
080	met06_master	SAMPLE	473919-001	WET Leachate	302983	12/12/22 17:15	1.0	1	
081	met06_master	SAMPLE	473926-001	WET Leachate	302983	12/12/22 17:18	1.0	1	
082	met06_master	SAMPLE	474006-002	WET Leachate	302983	12/12/22 17:22	1.0	1	
083	met06_master	SAMPLE	474006-003	WET Leachate	302983	12/12/22 17:25	1.0	1	
084	met06_master	SAMPLE	474006-004	WET Leachate	302983	12/12/22 17:28	1.0	1	
085	met06_master	SAMPLE	474160-001	WET Leachate	302983	12/12/22 17:32	1.0	1	
086	met06_master	SAMPLE	474534-001	WET Leachate	302983	12/12/22 17:35	1.0	1	
087	met06_master	CCV				12/12/22 17:38	1.0	10 1	
088	met06_master	CCB				12/12/22 17:41	1.0	1	
089	met06_master	ICB				12/12/22 17:54	1.0	1	
090	met06_master	MSS	474350-008	Soil	302697	12/12/22 17:57	1.0	1	3:FEASFE2O3=320
091	met06_master	SAMPLE	474350-010	Soil	302697	12/12/22 18:00	1.0	1	1:FE=170
092	met06_master	SAMPLE	474350-011	Soil	302697	12/12/22 18:03	1.0	1	1:FE=210
093	met06_master	SAMPLE	474333-017	Soil	302696	12/12/22 18:07	1.0	1	1:FE=230

Standards Used:
1=S13369 2=S17470 3=S17469 4=S17466 5=S17429 6=S17316 7=S17333 8=S17334 9=S17210 10=S17413 11=S17318 12=S17207 13=S17208 14=S17209

Enthalpy Internal Standard Summary for Sequence 482498973

Date: 12/12/22 Reference: met06_master
Sequence: MET06 12/12/22 Analyzed: 12/12/22 12:51

#	Type	Sample ID	Y H	Y A	Y R
		ICALBLK STD	24697000	853570	142091
		LOWER LIMIT	7409100	256071	42627
		UPPER LIMIT	49394000	1707140	284182
016	ICB		24177000	848303	139896
017	ICSA		21219600	786955	137045
018	ICSAB		21269700	783570	137508
021	SAMPLE	474442-002	23837300	834732	139603
022	SAMPLE	474350-010	22074900	818814	139934
023	SAMPLE	474350-011	22748100	841869	141937
024	SAMPLE	474350-013	22200900	819776	140438
025	SAMPLE	474350-014	23073900	846758	141608
026	SAMPLE	474350-016	21911400	814039	140232
027	SAMPLE	474350-017	23097400	860102	144670
028	CCV		22052700	835941	139683
029	CCB		24186600	844086	141324
030	BS	QC1031441	22925600	848494	138557
031	BSD	QC1031442	23127000	858564	138699
032	SAMPLE	474718-001	23188400	851862	139780
033	SAMPLE	474718-002	23144000	844119	138654
034	SAMPLE	474718-003	23035700	842659	138220
035	SAMPLE	474718-004	23338400	847284	139941
036	SAMPLE	474718-005	23162700	850509	139908
037	BLANK	QC1031057	24614000	846893	143947
038	BS	QC1031058	23570800	860008	141040
039	BSD	QC1031059	23501900	832848	139992
040	CCV		22803100	848142	140934
041	CCB		24502100	855532	142965
042	SAMPLE	474638-001	24213400	841722	143750
043	SAMPLE	474638-003	24261100	845255	143529
044	SAMPLE	474638-005	24113000	846630	144113
045	BLANK	QC1031355	23695800	846507	143805
046	BS	QC1031356	23327100	835530	142739
047	BSD	QC1031357	23578100	850592	143024
048	SAMPLE	473716-004	23204300	834069	142857
049	SAMPLE	473717-003	23308600	835140	141970
050	SAMPLE	473910-005	23110400	863814	141463
051	SAMPLE	474346-001	23394000	832322	141995
052	CCV		22422900	841393	139948
053	CCB		24219700	850200	141786
054	BLANK	QC1031407	21072600	818672	144664
055	LCS	QC1031408	21202100	823432	144252
056	MSS	473926-001	20927500	816356	144285
057	BLANK	QC1031371	23155200	843491	138378
058	MS	QC1031409	21311500	829380	145201
059	MSD	QC1031410	20924800	823248	145097
060	SAMPLE	474326-001	20401500	764651	141268
061	SAMPLE	474400-002	23616600	844682	148424
062	SAMPLE	474400-004	22638500	838690	175440
063	SAMPLE	474247-013	54129000 *	1619200	321036 *
064	CCV		22293500	837046	139488
065	CCB		24245900	849364	140579

Enthalpy Internal Standard Summary for Sequence 482498973

Date:	12/12/22	Reference:	met06_master
Sequence:	MET06 12/12/22	Analyzed:	12/12/22 12:51

#	Type	Sample ID	Y H	Y A	Y R
066	SAMPLE	474247-014	23421200	1119460	301640 *
067	SAMPLE	474247-015	23370500	862560	144484
068	SAMPLE	474247-016	23196500	862301	158806
069	SAMPLE	474247-017	23297100	862214	152544
070	SAMPLE	474247-018	23313100	835638	261046
071	SAMPLE	474315-004	22508400	831087	144353
072	SAMPLE	474333-007	22679000	841817	262074
073	SAMPLE	474333-013	22781500	846777	174482
074	SAMPLE	474333-017	23038700	851192	363667 *
075	SAMPLE	474350-001	22152100	983269	243660
076	CCV		22309000	831293	140367
078	CCB		24385200	843944	141588
079	SAMPLE	474350-002	23190600	858521	144084
080	SAMPLE	473919-001	23327600	831601	142541
081	SAMPLE	473926-001	23086100	843222	141616
082	SAMPLE	474006-002	23040700	857957	142468
083	SAMPLE	474006-003	23264900	855266	141037
084	SAMPLE	474006-004	23126800	853515	142450
085	SAMPLE	474160-001	23332900	851854	142605
086	SAMPLE	474534-001	23293100	850569	142669
087	CCV		22424600	833131	140986
088	CCB		24210600	842645	141596
089	ICB		24948400	858582	145696
090	MSS	474350-008	23528500	864758	147648
091	SAMPLE	474350-010	22191500	821201	143400
092	SAMPLE	474350-011	22923600	850586	145258
093	SAMPLE	474333-017	23214300	857354	146862

ENTHALPY INITIAL CALIBRATION FOR 474718 METALS Wipe: EPA 6010B

Instrument:	MET06		
Calibration #:	482498973001	Date:	12-DEC-2022 12:51
Units:	mg/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	met06_master	482498973006	L1	12-DEC-2022 12:54	S17470, S13369 (100X)
L2	met06_master	482498973007	L2	12-DEC-2022 12:57	S17469, S13369 (100X)
L3	met06_master	482498973008	L3	12-DEC-2022 13:00	S17466, S13369 (100X)
L4	met06_master	482498973009	L4	12-DEC-2022 13:04	S17429, S13369 (100X)

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Flags
Lead	A	0.0043	0.0329	0.0334	0.0315	WB1K	0.00230	31.7026		0.0255	1.000		5	0.995	

Instrument amount = a0 + (response × a1) + (response² × a2)
WB1K: Linear regression with ICALBLK weighting factor of 1000

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D
Lead	A	0.0033	-17	0.1000	7	1.0000	6	10.000	0

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06		
Calnum:	482498973001	Cal Date:	12-DEC-2022

- ICV 482498973014 (12-DEC-2022) stds: S17413, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	0.9751	mg/l	-2	10	

ENTHALPY INSTRUMENT BLANK FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973016	File:	met06_master	Time:	12-DEC-2022 13:32
Cal:	482498973001	Caldate:	12-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	24177000	-2.11
Yttrium	A	853570	848303	-0.62
Yttrium	R	142091	139896	-1.54

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973017	File:	met06_master	Time:	12-DEC-2022 13:35
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17207, S13369 (100X)

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.005611]	0.003333	mg/l	!a-

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Iron	A	160.0	144.3	mg/l	90	
Aluminum	R	400.0	416.9	mg/l	104	
Calcium	R	400.0	417.6	mg/l	104	
Magnesium	R	400.0	423.6	mg/l	106	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	21219600	-14.08
Yttrium	A	853570	786955	-7.80
Yttrium	R	142091	137045	-3.55

!=warning -=low bias a=ICSA

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973018	File:	met06_master	Time:	12-DEC-2022 13:38
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17208, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	1.017	mg/l	2	20	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	21269700	-13.88
Yttrium	A	853570	783570	-8.20
Yttrium	R	142091	137508	-3.23

ENTHALPY CONTINUING CALIBRATION FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973028	File:	met06_master	Time:	12-DEC-2022 14:14
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0255	0.0306	1.000	0.9707	mg/l	-3	10	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	22052700	-10.71
Yttrium	A	853570	835941	-2.07
Yttrium	R	142091	139683	-1.69

ENTHALPY INSTRUMENT BLANK FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973029	File:	met06_master	Time:	12-DEC-2022 14:18
Cal:	482498973001	Caldate:	12-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	24186600	-2.07
Yttrium	A	853570	844086	-1.11
Yttrium	R	142091	141324	-0.54

ENTHALPY CONTINUING CALIBRATION FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973040	File:	met06_master	Time:	12-DEC-2022 14:54
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0255	0.0307	1.000	0.9770	mg/l	-2	10	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	22803100	-7.67
Yttrium	A	853570	848142	-0.64
Yttrium	R	142091	140934	-0.81

ENTHALPY INSTRUMENT BLANK FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973041	File:	met06_master	Time:	12-DEC-2022 14:57
Cal:	482498973001	Caldate:	12-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	24502100	-0.79
Yttrium	A	853570	855532	0.23
Yttrium	R	142091	142965	0.62

ENTHALPY CONTINUING CALIBRATION FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973052	File:	met06_master	Time:	12-DEC-2022 15:34
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0255	0.0305	1.000	0.9702	mg/l	-3	10	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	22422900	-9.21
Yttrium	A	853570	841393	-1.43
Yttrium	R	142091	139948	-1.51

ENTHALPY INSTRUMENT BLANK FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973053	File:	met06_master	Time:	12-DEC-2022 15:41
Cal:	482498973001	Caldate:	12-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	24219700	-1.93
Yttrium	A	853570	850200	-0.39
Yttrium	R	142091	141786	-0.21

ENTHALPY CONTINUING CALIBRATION FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973064	File:	met06_master	Time:	12-DEC-2022 16:18
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0255	0.0305	1.000	0.9701	mg/l	-3	10	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	22293500	-9.73
Yttrium	A	853570	837046	-1.94
Yttrium	R	142091	139488	-1.83

ENTHALPY INSTRUMENT BLANK FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973065	File:	met06_master	Time:	12-DEC-2022 16:23
Cal:	482498973001	Caldate:	12-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	24245900	-1.83
Yttrium	A	853570	849364	-0.49
Yttrium	R	142091	140579	-1.06

SAMPLE PREPARATION SUMMARY

Batch # : 302987 Analysis : ICP
Started By : RPS Prep Date : 12-DEC-2022 10:47 Finished By : RPS
Method : 3010A Units : ft2
Spike #1 ID : S17423 Spike #2 ID : S17422

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
474718-001		Wipe	1	50	1	50.0						6010	
474718-002		Wipe	1	50	1	50.0						6010	
474718-003		Wipe	1.02	50	1	49.02						6010	
474718-004		Wipe	1	50	1	50.0						6010	
474718-005		Wipe	1	50	1	50.0						6010	
QC1031371	BLANK	Wipe	1	50	1	50.0						ICP	
QC1031441	BS	Wipe	1	50	1	50.0		1	1			ICP	
QC1031442	BSD	Wipe	1	50	1	50.0		1	1			ICP	

Analyst: KLN Date: 12/12/22 Reviewer: _____ Date: _____

ICP Prep Log RPS 12/12/22

Initials: KLN / RPS Prep Method: 3050B / 3010A / 200.7 / STLC QC Batch #: ~~302986~~ 302987 Therm ID/Corr Factor: 763796 / 0

Prep Start, Date/Time: 12/12/22 10:47 Prep End, Date/Time: 12/12/22 12:36 HotBlock Temp (Obs/Cor), °C: 85 / 86

HotBlock ID: S

Sample ID	Bottle #	Sample pH (Water Only)	Sample Appearance	Initial Vol. or Weight (mL or g)	Bal. ID	Final Vol (mL)	Digestion Tube Lot#	Comment
Blank	-----	-----	-----		NA	1050	KLN 12/12/22 22D8066	
LCS	-----	-----	-----					
LCSD		NA						
474718-1	A		wet whole wipe	1				
-2								
-3								
-4								
-5								

RPS 12/12/22

(3) Hydrochloric Acid ID: 10 ml - 22310168

(1) Nitric Acid ID: 10 ml - 20229064S

(2) H_2O_2 ID: 3ml

LCS Spike ID: 1ml (S17423 / S17422)

MS/MSD Spike ID: NA

ICP Raw Data

Enthalpy Sequence Summary for Sequence 482498973

Instrument: MET06 Begun: 12/12/22 12:13
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met06_master	ICALBLK	CALBLANK			12/12/22 12:13	1.0	1	
002	met06_master	ICALBLK	CALBLANK			12/12/22 12:16	1.0	1	
003	met06_master	ICALBLK	CALBLANK			12/12/22 12:36	1.0	1	
004	met06_master	ICALBLK	CALBLANK			12/12/22 12:45	1.0	1	
005	met06_master	ICALBLK	CALBLANK			12/12/22 12:51	1.0	1	
006	met06_master	ICAL	L1			12/12/22 12:54	1.0	2 1	
007	met06_master	ICAL	L2			12/12/22 12:57	1.0	3 1	
008	met06_master	ICAL	L3			12/12/22 13:00	1.0	4 1	
009	met06_master	ICAL	L4			12/12/22 13:04	1.0	5 1	
010	met06_master	ICAL	L5			12/12/22 13:07	1.0	6 1	
011	met06_master	ICAL	L6			12/12/22 13:10	1.0	7 1	
012	met06_master	ICAL	L7			12/12/22 13:13	1.0	8 1	
013	met06_master	ICAL	L8			12/12/22 13:17	1.0	9 1	
014	met06_master	ICV				12/12/22 13:20	1.0	10 1	
015	met06_master	CRI				12/12/22 13:25	1.0	11 1	
016	met06_master	ICB				12/12/22 13:32	1.0	1	
017	met06_master	ICSA				12/12/22 13:35	1.0	12 1	5:MGASMGCO3=1500
018	met06_master	ICSAB				12/12/22 13:38	1.0	13 1	5:MGASMGCO3=1500
019	met06_master	XCRI				12/12/22 13:42	1.0	14 1	
020	met06_master	CRI				12/12/22 13:48	1.0	14 1	
021	met06_master	SAMPLE	474442-002	Soil	302696	12/12/22 13:52	1.0	1	
022	met06_master	SAMPLE	474350-010	Soil	302697	12/12/22 13:55	1.0	1	1:FE=170
023	met06_master	SAMPLE	474350-011	Soil	302697	12/12/22 13:58	1.0	1	1:FE=210
024	met06_master	SAMPLE	474350-013	Soil	302697	12/12/22 14:01	1.0	1	1:FE=180
025	met06_master	SAMPLE	474350-014	Soil	302697	12/12/22 14:05	1.0	1	1:FE=170
026	met06_master	SAMPLE	474350-016	Soil	302697	12/12/22 14:08	1.0	1	

Enthalpy Sequence Summary for Sequence 482498973

Instrument: MET06 Begun: 12/12/22 12:13
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
027	met06_master	SAMPLE	474350-017	Soil	302697	12/12/22 14:11	1.0	1	1:FE=220
028	met06_master	CCV				12/12/22 14:14	1.0	10 1	
029	met06_master	CCB				12/12/22 14:18	1.0	1	
030	met06_master	BS	QC1031441	Wipe	302987	12/12/22 14:22	1.0	1	
031	met06_master	BSD	QC1031442	Wipe	302987	12/12/22 14:25	1.0	1	
032	met06_master	SAMPLE	474718-001	Wipe	302987	12/12/22 14:28	1.0	1	
033	met06_master	SAMPLE	474718-002	Wipe	302987	12/12/22 14:31	1.0	1	
034	met06_master	SAMPLE	474718-003	Wipe	302987	12/12/22 14:35	1.0	1	
035	met06_master	SAMPLE	474718-004	Wipe	302987	12/12/22 14:38	1.0	1	
036	met06_master	SAMPLE	474718-005	Wipe	302987	12/12/22 14:41	1.0	1	
037	met06_master	BLANK	QC1031057	Air	302900	12/12/22 14:44	1.0	1	
038	met06_master	BS	QC1031058	Air	302900	12/12/22 14:48	1.0	1	
039	met06_master	BSD	QC1031059	Air	302900	12/12/22 14:51	1.0	1	
040	met06_master	CCV				12/12/22 14:54	1.0	10 1	
041	met06_master	CCB				12/12/22 14:57	1.0	1	
042	met06_master	SAMPLE	474638-001	Air	302900	12/12/22 15:01	1.0	1	
043	met06_master	SAMPLE	474638-003	Air	302900	12/12/22 15:05	1.0	1	
044	met06_master	SAMPLE	474638-005	Air	302900	12/12/22 15:08	1.0	1	
045	met06_master	BLANK	QC1031355	WET Leachate	302983	12/12/22 15:12	1.0	1	
046	met06_master	BS	QC1031356	WET Leachate	302983	12/12/22 15:15	1.0	1	
047	met06_master	BSD	QC1031357	WET Leachate	302983	12/12/22 15:18	1.0	1	
048	met06_master	SAMPLE	473716-004	WET Leachate	302983	12/12/22 15:21	1.0	1	
049	met06_master	SAMPLE	473717-003	WET Leachate	302983	12/12/22 15:25	1.0	1	
050	met06_master	SAMPLE	473910-005	WET Leachate	302983	12/12/22 15:28	1.0	1	
051	met06_master	SAMPLE	474346-001	WET Leachate	302983	12/12/22 15:31	1.0	1	
052	met06_master	CCV				12/12/22 15:34	1.0	10 1	

Enthalpy Sequence Summary for Sequence 482498973

Instrument: MET06 Begun: 12/12/22 12:13
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met06_master	CCB				12/12/22 15:41	1.0	1	
054	met06_master	BLANK	QC1031407	TCLP Leachate	302998	12/12/22 15:44	1.0	1	
055	met06_master	LCS	QC1031408	TCLP Leachate	302998	12/12/22 15:48	1.0	1	
056	met06_master	MSS	473926-001	TCLP Leachate	302998	12/12/22 15:51	1.0	1	
057	met06_master	BLANK	QC1031371	Wipe	302987	12/12/22 15:55	1.0	1	
058	met06_master	MS	QC1031409	TCLP Leachate	302998	12/12/22 15:58	1.0	1	
059	met06_master	MSD	QC1031410	TCLP Leachate	302998	12/12/22 16:01	1.0	1	
060	met06_master	SAMPLE	474326-001	TCLP Leachate	302998	12/12/22 16:04	1.0	1	1:NA=1000
061	met06_master	SAMPLE	474400-002	Soil	302717	12/12/22 16:08	1.0	1	1:FE=200
062	met06_master	SAMPLE	474400-004	Soil	302717	12/12/22 16:11	1.0	1	1:FE=210
063	met06_master	SAMPLE	474247-013	Soil	302696	12/12/22 16:14	1.0	1	
064	met06_master	CCV				12/12/22 16:18	1.0	10 1	
065	met06_master	CCB				12/12/22 16:23	1.0	1	
066	met06_master	SAMPLE	474247-014	Soil	302696	12/12/22 16:26	1.0	1	
067	met06_master	SAMPLE	474247-015	Soil	302696	12/12/22 16:30	1.0	1	
068	met06_master	SAMPLE	474247-016	Soil	302696	12/12/22 16:33	1.0	1	1:FE=180
069	met06_master	SAMPLE	474247-017	Soil	302696	12/12/22 16:36	1.0	1	1:FE=180
070	met06_master	SAMPLE	474247-018	Soil	302696	12/12/22 16:40	1.0	1	1:FE=170
071	met06_master	SAMPLE	474315-004	Soil	302696	12/12/22 16:43	1.0	1	2:FE=200
072	met06_master	SAMPLE	474333-007	Soil	302696	12/12/22 16:46	1.0	1	1:FE=250
073	met06_master	SAMPLE	474333-013	Soil	302696	12/12/22 16:49	1.0	1	1:FE=270
074	met06_master	SAMPLE	474333-017	Soil	302696	12/12/22 16:53	1.0	1	1:FE=220
075	met06_master	SAMPLE	474350-001	Soil	302696	12/12/22 16:56	1.0	1	
076	met06_master	CCV				12/12/22 16:59	1.0	10 1	
077	met06_master	XCCB				12/12/22 17:02	1.0	1	
078	met06_master	CCB				12/12/22 17:09	1.0	1	

Enthalpy Sequence Summary for Sequence 482498973

Instrument: MET06 Begun: 12/12/22 12:13
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
079	met06_master	SAMPLE	474350-002	Soil	302696	12/12/22 17:12	1.0	1	1:FE=200
080	met06_master	SAMPLE	473919-001	WET Leachate	302983	12/12/22 17:15	1.0	1	
081	met06_master	SAMPLE	473926-001	WET Leachate	302983	12/12/22 17:18	1.0	1	
082	met06_master	SAMPLE	474006-002	WET Leachate	302983	12/12/22 17:22	1.0	1	
083	met06_master	SAMPLE	474006-003	WET Leachate	302983	12/12/22 17:25	1.0	1	
084	met06_master	SAMPLE	474006-004	WET Leachate	302983	12/12/22 17:28	1.0	1	
085	met06_master	SAMPLE	474160-001	WET Leachate	302983	12/12/22 17:32	1.0	1	
086	met06_master	SAMPLE	474534-001	WET Leachate	302983	12/12/22 17:35	1.0	1	
087	met06_master	CCV				12/12/22 17:38	1.0	10 1	
088	met06_master	CCB				12/12/22 17:41	1.0	1	
089	met06_master	ICB				12/12/22 17:54	1.0	1	
090	met06_master	MSS	474350-008	Soil	302697	12/12/22 17:57	1.0	1	3:FEASFE2O3=320
091	met06_master	SAMPLE	474350-010	Soil	302697	12/12/22 18:00	1.0	1	1:FE=170
092	met06_master	SAMPLE	474350-011	Soil	302697	12/12/22 18:03	1.0	1	1:FE=210
093	met06_master	SAMPLE	474333-017	Soil	302696	12/12/22 18:07	1.0	1	1:FE=230

Standards Used:
1=S13369 2=S17470 3=S17469 4=S17466 5=S17429 6=S17316 7=S17333 8=S17334 9=S17210 10=S17413 11=S17318 12=S17207 13=S17208 14=S17209

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	474718-001	Client ID:	ARCH-C5W-EXT-1 TO 2-221209-L-WF
Seqnum:	482498973032.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	302987	Time:	12-DEC-2022 14:28
Cal:	482498973001	Caldate:	12-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.2115	11	0.25	0.0054	!<a- u

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	853570	851862	-0.20

!=warning -=low bias <=opening a=ICSA u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 474718-001,302987			Sample Type: Unknown Sample
Measure Date: 2022-12-12 14:28:31	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	27360.20000000	6803.66000000	2905.33000000	6539.53000000	10027.60000000	35436.40000000	7306.13000000
Int RSD	*0.46329705*	*1.18406564*	*1.59256952*	*0.79339188*	*0.96274981*	*0.46716089*	*0.50967065*
Int SD	*126.75900000*	*80.55980000*	*46.26940000*	*51.88410000*	*96.54070000*	*165.54500000*	*37.23720000*
RelInt Mean	-0.00000538	0.04699380	-0.00029837	0.00241109	0.00680822	0.25312100	0.00393757
RelInt RSD	*169.14270110*	*2.05652022*	*18.68249946*	*0.89856455*	*1.63966499*	*0.81619858*	*1.31797530*
RelInt SD	*0.00000911*	*0.00096644*	*0.00005574*	*0.00002167*	*0.00011163*	*0.00206597*	*0.00005190*
Conc Mean	<-0.00083486[mg/l]	4.74825000[mg/l]	<-0.01160500[mg/l]	0.02419820[mg/l]	0.02002080[mg/l]	19.40810000[mg/l]	0.02322530[mg/l]
Conc RSD	*42.93183495*	*2.22599905*	*24.89108143*	*1.03481251*	*1.72908675*	*0.81642716*	*1.36264763*
Conc SD	*0.00035842[mg/l]*	*0.10569600[mg/l]*	*0.00288861[mg/l]*	*0.00025041[mg/l]*	*0.00034618[mg/l]*	*0.15845300[mg/l]*	*0.00031648[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	10960.40000000	251510	24998900	9221.90000000	4516.71000000	1280360	4980.59000000
Int RSD	*1.33658443*	*1.08135661*	*0.79431095*	*1.50759605*	*0.60668495*	*0.44451326*	*8.69732301*
Int SD	*146.49500000*	*2719.72000000*	*198569*	*139.02900000*	*27.40220000*	*5691.37000000*	*433.17800000*
RelInt Mean	0.00790057	0.00974493	29.52290000	0.06672410	0.03030220	1.50563000	0.00162489
RelInt RSD	*2.10021555*	*0.51065528*	*0.52437599*	*1.84996126*	*1.22882167*	*0.17988815*	*30.35110069*
RelInt SD	*0.00016593*	*0.00004976*	*0.15481100*	*0.00123437*	*0.00037236*	*0.00270845*	*0.00049317*
Conc Mean	0.05721000[mg/l]	0.26478500[mg/l]	95.67500000[mg/l]	5.81690000[mg/l]	6.24098000[mg/l]	0.89696100[mg/l]	0.01182530[mg/l]
Conc RSD	*2.10326866*	*0.51959892*	*0.52426339*	*1.82196703*	*1.18476425*	*0.18007360*	*30.42984110*
Conc SD	*0.00120328[mg/l]*	*0.00137582[mg/l]*	*0.50158900[mg/l]*	*0.10598200[mg/l]*	*0.07394090[mg/l]*	*0.00161519[mg/l]*	*0.00359842[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	111795	9499.35000000	9790.66000000	4125.58000000	3376.30000000	6779.61000000	2929.49000000
Int RSD	*0.84803614*	*0.27380716*	*0.33253019*	*2.96341363*	*1.60752895*	*0.52760410*	*3.76673073*
Int SD	*948.06200000*	*26.00990000*	*32.55690000*	*122.25800000*	*54.27500000*	*35.76950000*	*110.34600000*
RelInt Mean	0.78831200	0.00613097	0.00662897	0.00058350	0.00044881	0.00347151	0.02005630
RelInt RSD	*0.47283309*	*0.70278439*	*0.43283195*	*27.40358249*	*21.45729214*	*1.13512564*	*5.71122291*
RelInt SD	*0.00372740*	*0.00004309*	*0.00002869*	*0.00015990*	*0.00009630*	*0.00003941*	*0.00114546*
Conc Mean	10.04200000[mg/l]	0.05761670[mg/l]	0.21149900[mg/l]	0.03331300[mg/l]	0.02699430[mg/l]	0.06334700[mg/l]	0.01746250[mg/l]
Conc RSD	*0.47607250*	*0.72702359*	*0.42671218*	*24.89982890*	*21.82590399*	*1.12822549*	*5.47760630*
Conc SD	*0.04780720[mg/l]*	*0.00041889[mg/l]*	*0.00090249[mg/l]*	*0.00829488[mg/l]*	*0.00589175[mg/l]*	*0.00071470[mg/l]*	*0.00095653[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	1279720	2851.07000000	9101.52000000	851862	23188400	139780	6908190
Int RSD	*0.83979308*	*0.88145503*	*1.60613832*	*0.32582390*	*0.82654258*	*0.43006439*	*0.13260420*
Int SD	*10747.00000000*	*25.13090000*	*146.18300000*	*2775.57000000*	*191662*	*601.14400000*	*9160.55000000*
RelInt Mean	0.05393830	-0.00057387	0.00013225	---	---	---	8.15590000
RelInt RSD	*0.18896406*	*6.26854748*	*1.26824750*	---	---	---	*0.23253841*
RelInt SD	*0.00010192*	*0.00003597*	*0.00000168*	---	---	---	*0.01896560*
Conc Mean	0.48051900[mg/l]	<-0.02566000[mg/l]	0.01682620[mg/l]	846499	23142400	139662	>31.53920000[mg/l]
Conc RSD	*0.18897109*	*6.69493375*	*1.78576862*	---	---	---	*0.23256963*
Conc SD	*0.00090804[mg/l]*	*0.00171792[mg/l]*	*0.00030048[mg/l]*	*2753.82000000*	*191626*	*586.11000000*	*0.07335060[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-1.40797000	920.69600000	448987	24375.90000000	4177.01000000	61409.40000000	
Int RSD	*4410.80420748*	*12.87102366*	*0.49448648*	*0.08987401*	*0.03981700*	*0.45114103*	
Int SD	*62.10280000*	*118.50300000*	*2220.18000000*	*21.90760000*	*1.66316000*	*277.04300000*	
RelInt Mean	-0.00140082	0.00242365	0.52407700	0.02494460	-0.00027880	0.06858860	
RelInt RSD	*7.68399937*	*28.93437584*	*0.34265003*	*0.21009076*	*12.44907695*	*0.74161158*	
RelInt SD	*0.00010764*	*0.00070127*	*0.00179575*	*0.00005241*	*0.00003471*	*0.00050866*	
Conc Mean	<-0.00108164[mg/l]	<0.00281214[mg/l]	8.45590000[mg/l]	0.82436500[mg/l]	<-0.00122660[mg/l]	6.10987000[mg/l]	
Conc RSD	*36.92725861*	*42.16006315*	*0.34297709*	*0.22675635*	*11.44651883*	*0.74039055*	
Conc SD	*0.00039942[mg/l]*	*0.00118560[mg/l]*	*0.02900180[mg/l]*	*0.00186930[mg/l]*	*0.00014040[mg/l]*	*0.04523690[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	474718-002	Client ID:	ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-L-LA
Seqnum:	482498973033.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	302987	Time:	12-DEC-2022 14:31
Cal:	482498973001	Caldate:	12-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.09069	4.5	0.25	0.0054	!<a- u

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	853570	844119	-1.11

!=warning -=low bias <=opening a=ICSA u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 474718-002,302987			Sample Type: Unknown Sample
Measure Date: 2022-12-12 14:31:46	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	26647.90000000	3655.96000000	2923.92000000	5581.13000000	12767.80000000	36337.40000000	5284.12000000
Int RSD	*0.59223804*	*2.15309248*	*0.52654313*	*0.46634105*	*0.37311675*	*1.02037295*	*0.14142109*
Int SD	*157.81900000*	*78.71620000*	*15.39570000*	*26.02710000*	*47.63880000*	*370.77700000*	*7.47286000*
RelInt Mean	0.00001151	0.02442380	-0.00028100	0.00170331	0.01033780	0.26180300	0.00171776
RelInt RSD	*28.56308959*	*1.54103375*	*15.67407233*	*1.57360668*	*1.26953510*	*0.48349331*	*1.04462207*
RelInt SD	*0.00000329*	*0.00037638*	*0.00004404*	*0.00002680*	*0.00013124*	*0.00126580*	*0.00001794*
Conc Mean	<-0.00016978[mg/l]	2.27981000[mg/l]	<-0.01068970[mg/l]	0.01601680[mg/l]	0.03069800[mg/l]	20.07400000[mg/l]	0.00968019[mg/l]
Conc RSD	*76.24222505*	*1.80554520*	*21.36711040*	*1.93401304*	*1.28942928*	*0.48398426*	*1.34672976*
Conc SD	*0.00012944[mg/l]*	*0.04116300[mg/l]*	*0.00228408[mg/l]*	*0.00030977[mg/l]*	*0.00039583[mg/l]*	*0.09715500[mg/l]*	*0.00013037[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	8621.86000000	208003	14779400	8759.63000000	3289.75000000	688489	3447.04000000
Int RSD	*1.98221729*	*1.35326894*	*0.63299593*	*4.62698767*	*1.87533399*	*1.18979824*	*0.52532027*
Int SD	*170.90400000*	*2814.84000000*	*93553.00000000*	*405.30700000*	*61.69380000*	*8191.63000000*	*18.10800000*
RelInt Mean	0.00556432	0.00791504	17.61020000	0.06396910	0.02153890	0.81444000	0.00029379
RelInt RSD	*3.05038172*	*1.12803347*	*0.93493544*	*4.32824598*	*2.80308651*	*0.94905088*	*7.02754036*
RelInt SD	*0.00016973*	*0.00008928*	*0.16464400*	*0.00276874*	*0.00060375*	*0.00772945*	*0.00002065*
Conc Mean	0.04026780[mg/l]	0.21419000[mg/l]	57.06910000[mg/l]	5.58036000[mg/l]	4.50079000[mg/l]	0.48519300[mg/l]	0.00211297[mg/l]
Conc RSD	*3.05683449*	*1.15245343*	*0.93495429*	*4.25977894*	*2.66377680*	*0.94905739*	*7.12963270*
Conc SD	*0.00123092[mg/l]*	*0.00246844[mg/l]*	*0.53357000[mg/l]*	*0.23771100[mg/l]*	*0.11989100[mg/l]*	*0.00460476[mg/l]*	*0.00015065[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	94296.60000000	8805.67000000	6437.79000000	3445.44000000	3234.49000000	5937.16000000	3017.80000000
Int RSD	*1.48137897*	*0.45525781*	*0.30734771*	*0.66264976*	*0.40422756*	*0.46850514*	*3.80045066*
Int SD	*1396.89000000*	*40.08850000*	*19.78640000*	*22.83120000*	*13.07470000*	*27.81590000*	*114.69000000*
RelInt Mean	0.66848800	0.00556764	0.00280256	0.00038503	0.00046309	0.00241275	0.02125930
RelInt RSD	*1.42985663*	*0.99466560*	*1.24721683*	*6.28737352*	*9.13661157*	*0.36186592*	*2.41006524*
RelInt SD	*0.00955842*	*0.00005538*	*0.00003495*	*0.00002421*	*0.00004231*	*0.00000873*	*0.00051236*
Conc Mean	8.50529000[mg/l]	0.05214040[mg/l]	0.09068970[mg/l]	0.02311700[mg/l]	0.02786860[mg/l]	0.04414370[mg/l]	0.01846720[mg/l]
Conc RSD	*1.44130300*	*1.03244509*	*1.23050357*	*5.46355496*	*9.28855414*	*0.35875108*	*2.31686991*
Conc SD	*0.12258700[mg/l]*	*0.00053832[mg/l]*	*0.00111594[mg/l]*	*0.00126301[mg/l]*	*0.00258859[mg/l]*	*0.00015837[mg/l]*	*0.00042786[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	1191790	2809.44000000	7925.13000000	844119	23144000	138654	432903
Int RSD	*6.90647681*	*0.94173928*	*0.84281393*	*0.76757661*	*0.45554787*	*0.68388074*	*0.29092660*
Int SD	*82310.70000000*	*26.45760000*	*66.79410000*	*6479.26000000*	*105432*	*948.22800000*	*1259.43000000*
RelInt Mean	0.05024750	-0.00062445	0.00009783	---	---	---	0.51253500
RelInt RSD	*6.64289766*	*1.40045608*	*3.83729511*	---	---	---	*0.48295629*
RelInt SD	*0.00333789*	*0.00000875*	*0.00000375*	---	---	---	*0.00247532*
Conc Mean	0.44764300[mg/l]	<-0.02798170[mg/l]	0.01068770[mg/l]	838937	23099200	138552	1.98148000[mg/l]
Conc RSD	*6.64205628*	*1.33128795*	*6.26799031*	---	---	---	*0.48319589*
Conc SD	*0.02973270[mg/l]*	*0.00037252[mg/l]*	*0.00066990[mg/l]*	*6472.68000000*	*105433*	*920.52000000*	*0.00957443[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-24.95820000	930.08000000	306968	23458.90000000	4046.22000000	58378.50000000	
Int RSD	*487.91178851*	*2.59227163*	*0.39035991*	*0.61545512*	*0.21497348*	*0.33762087*	
Int SD	*121.77400000*	*24.11020000*	*1198.28000000*	*144.37900000*	*8.69830000*	*197.09800000*	
RelInt Mean	-0.00079374	0.00233085	0.36016300	0.02398580	-0.00003857	0.06556460	
RelInt RSD	*58.19958903*	*10.51273141*	*0.94102670*	*0.83386420*	*32.61121496*	*1.11839926*	
RelInt SD	*0.00046195*	*0.00024504*	*0.00338923*	*0.00020001*	*0.00001258*	*0.00073327*	
Conc Mean	<0.00117113[mg/l]	0.00265524[mg/l]	5.80901000[mg/l]	0.79016300[mg/l]	<-0.00032732[mg/l]	5.84093000[mg/l]	
Conc RSD	*146.37572259*	*15.60190416*	*0.94223112*	*0.90314150*	*16.83257006*	*1.11653966*	
Conc SD	*0.00171425[mg/l]*	*0.00041427[mg/l]*	*0.05473430[mg/l]*	*0.00713629[mg/l]*	*0.00005510[mg/l]*	*0.06521630[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	474718-003	Client ID:	ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-6-LA
Seqnum:	482498973034.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	302987	Time:	12-DEC-2022 14:35
Cal:	482498973001	Caldate:	12-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.02 ft2 ⇨ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.2122	10	0.25	0.0054	!<a- u

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	853570	842659	-1.28

!=warning -=low bias <=opening a=ICSA u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 474718-003,302987			Sample Type: Unknown Sample
Measure Date: 2022-12-12 14:35:02	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	27427.30000000	5761.01000000	3315.09000000	6451.49000000	26132.70000000	35995.10000000	7144.35000000
Int RSD	*1.06938342*	*2.28428696*	*1.48210154*	*0.78780716*	*0.47938407*	*1.07073741*	*0.51190801*
Int SD	*293.30300000*	*131.59800000*	*49.13300000*	*50.82530000*	*125.27600000*	*385.41300000*	*36.57250000*
RelInt Mean	-0.00000241	0.03964200	0.00008014	0.00200527	0.02595580	0.25964700	0.00366354
RelInt RSD	*245.52254604*	*3.85540588*	*54.99700517*	*3.65808096*	*0.58143074*	*1.40711427*	*2.05583125*
RelInt SD	*0.00000591*	*0.00152836*	*0.00004407*	*0.00007335*	*0.00015092*	*0.00365353*	*0.00007532*
Conc Mean	<-0.00071779[mg/l]	3.94419000[mg/l]	0.00800335[mg/l]	0.01950720[mg/l]	0.07779030[mg/l]	19.90870000[mg/l]	0.02155400[mg/l]
Conc RSD	*32.43812562*	*4.23792971*	*28.52905346*	*4.34655409*	*0.58591238*	*1.40752033*	*1.96107451*
Conc SD	*0.00023284[mg/l]*	*0.16715200[mg/l]*	*0.00228328[mg/l]*	*0.00084789[mg/l]*	*0.00045578[mg/l]*	*0.28021900[mg/l]*	*0.00042269[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	12777.20000000	346098	32445600	9250.15000000	4162.09000000	1137150	3663.61000000
Int RSD	*1.55315719*	*1.17571613*	*0.79651170*	*1.55182348*	*3.43654270*	*0.33422767*	*0.40674089*
Int SD	*198.45000000*	*4069.13000000*	*258433*	*143.54600000*	*143.03200000*	*3800.67000000*	*14.90140000*
RelInt Mean	0.00985388	0.01390570	38.75300000	0.06779120	0.02778940	1.35111000	0.00012684
RelInt RSD	*2.18649913*	*0.11275232*	*0.96456274*	*2.52305609*	*2.07364319*	*0.38264612*	*37.07045940*
RelInt SD	*0.00021546*	*0.00001568*	*0.37379700*	*0.00171041*	*0.00057625*	*0.00516997*	*0.00004702*
Conc Mean	0.07137510[mg/l]	0.37982900[mg/l]	>125.58800000[mg/l]	5.90852000[mg/l]	5.74202000[mg/l]	0.80491100[mg/l]	<0.00089484[mg/l]
Conc RSD	*2.18897066*	*0.11401315*	*0.96477370*	*2.48536012*	*1.99278303*	*0.38237022*	*38.33966034*
Conc SD	*0.00156238[mg/l]*	*0.00043305[mg/l]*	*1.21164000[mg/l]*	*0.14684800[mg/l]*	*0.11442600[mg/l]*	*0.00307774[mg/l]*	*0.00034308[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	102399	15359.60000000	9834.01000000	3601.21000000	3395.80000000	7011.90000000	2930.86000000
Int RSD	*1.95748005*	*0.14852731*	*0.40133069*	*0.74838457*	*0.61220625*	*0.99257690*	*6.26270105*
Int SD	*2004.44000000*	*22.81320000*	*39.46690000*	*26.95090000*	*20.78930000*	*69.59850000*	*183.55100000*
RelInt Mean	0.72892300	0.01306500	0.00664747	0.00028567	0.00026978	0.00363106	0.02053740
RelInt RSD	*1.29161791*	*0.16041408*	*0.80014351*	*28.48777414*	*7.59546738*	*2.25795222*	*7.84690370*
RelInt SD	*0.00941490*	*0.00002096*	*0.00005319*	*0.00008138*	*0.00002049*	*0.00008199*	*0.00161155*
Conc Mean	9.28034000[mg/l]	0.12502500[mg/l]	0.21224600[mg/l]	0.01778000[mg/l]	0.01604140[mg/l]	0.06624080[mg/l]	0.01786430[mg/l]
Conc RSD	*1.30100837*	*0.16284583*	*0.78308661*	*23.76451069*	*7.81477926*	*2.24480985*	*7.53306875*
Conc SD	*0.12073800[mg/l]*	*0.00020360[mg/l]*	*0.00166207[mg/l]*	*0.00422533[mg/l]*	*0.00125360[mg/l]*	*0.00148698[mg/l]*	*0.00134573[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	1259640	2916.91000000	8979.53000000	842659	23035700	138220	819813
Int RSD	*6.00471563*	*0.74888152*	*0.34097887*	*0.17373813*	*1.19572229*	*1.02388222*	*0.59451973*
Int SD	*75637.80000000*	*21.84420000*	*30.61830000*	*1464.02000000*	*275443*	*1415.21000000*	*4873.95000000*
RelInt Mean	0.05343130	-0.00067333	0.00012233	---	---	---	0.97553000
RelInt RSD	*6.11594702*	*3.57718252*	*5.77858982*	---	---	---	*0.62427706*
RelInt SD	*0.00326783*	*0.00002409*	*0.00000707*	---	---	---	*0.00609001*
Conc Mean	0.47600300[mg/l]	<-0.03039890[mg/l]	0.01505910[mg/l]	837029	22989100	138127	>3.77192000[mg/l]
Conc RSD	*6.11519255*	*3.75572800*	*8.37719386*	---	---	---	*0.62440614*
Conc SD	*0.02910850[mg/l]*	*0.00114170[mg/l]*	*0.00126153[mg/l]*	*1447.03000000*	*275523*	*1375.82000000*	*0.02355210[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	22.28830000	904.03500000	423541	23107.80000000	4277.13000000	56587.60000000	
Int RSD	*532.33759416*	*2.36424475*	*0.65564137*	*0.61853573*	*0.47962769*	*0.43890888*	
Int SD	*118.64900000*	*21.37360000*	*2776.91000000*	*142.93000000*	*20.51430000*	*248.36800000*	
RelInt Mean	-0.00085931	0.00192889	0.49937700	0.02362930	-0.00047087	0.06349200	
RelInt RSD	*112.37987511*	*9.56612352*	*0.60869243*	*0.62343362*	*13.36180569*	*0.58485951*	
RelInt SD	*0.00096570*	*0.00018452*	*0.00303967*	*0.00014731*	*0.00006292*	*0.00037134*	
Conc Mean	<0.00092780[mg/l]	<0.00197567[mg/l]	8.05725000[mg/l]	0.77744500[mg/l]	<-0.00201957[mg/l]	5.65659000[mg/l]	
Conc RSD	*386.24164691*	*15.79008640*	*0.60936796*	*0.67594235*	*12.11213278*	*0.58384115*	
Conc SD	*0.00358355[mg/l]*	*0.00031196[mg/l]*	*0.04909830[mg/l]*	*0.00525508[mg/l]*	*0.00024461[mg/l]*	*0.03302550[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	474718-004	Client ID:	ARCH-C5W-INT-4.5 TO 5.5-221209-L-WF
Seqnum:	482498973035.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	302987	Time:	12-DEC-2022 14:38
Cal:	482498973001	Caldate:	12-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.1358	6.8	0.25	0.0054	!<a- u

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	853570	847284	-0.74

!=warning -=low bias <=opening a=ICSA u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 474718-004,302987			Sample Type: Unknown Sample
Measure Date: 2022-12-12 14:38:18	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	27183.80000000	7971.76000000	2842.11000000	5899.77000000	20980.30000000	20659.80000000	6843.99000000
Int RSD	*0.34539468*	*0.39227097*	*1.42359374*	*0.69961710*	*0.44809845*	*1.06337428*	*0.60770837*
Int SD	*93.89140000*	*31.27090000*	*40.46010000*	*41.27580000*	*94.01240000*	*219.69100000*	*41.59150000*
RelInt Mean	0.00000835	0.05513050	-0.00045082	0.00177170	0.01989270	0.14740700	0.00343975
RelInt RSD	*88.28398188*	*0.48932805*	*10.73454549*	*6.89196817*	*0.98159124*	*0.90199923*	*1.46485355*
RelInt SD	*0.00000737*	*0.00026977*	*0.00004839*	*0.00012211*	*0.00019526*	*0.00132961*	*0.00005039*
Conc Mean	<-0.00029413[mg/l]	5.63815000[mg/l]	<-0.01950190[mg/l]	0.01680730[mg/l]	0.05951310[mg/l]	11.29940000[mg/l]	0.02008320[mg/l]
Conc RSD	*98.70021249*	*0.52334365*	*12.85787539*	*8.39777954*	*0.98925615*	*0.90303910*	*1.55561863*
Conc SD	*0.00029030[mg/l]*	*0.02950690[mg/l]*	*0.00250753[mg/l]*	*0.00141144[mg/l]*	*0.00058874[mg/l]*	*0.10203800[mg/l]*	*0.00031242[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	10010.10000000	208195	20570300	3141.91000000	4965.02000000	1135030	3401.51000000
Int RSD	*1.85894247*	*1.36003266*	*0.82417369*	*1.34186848*	*1.23492151*	*1.02873933*	*0.75090475*
Int SD	*186.08200000*	*2831.52000000*	*169535*	*42.16030000*	*61.31410000*	*11676.50000000*	*25.54210000*
RelInt Mean	0.00695655	0.00783322	24.42610000	0.02327050	0.03350890	1.34155000	0.00001529
RelInt RSD	*3.22622564*	*0.97230130*	*1.09621266*	*0.46812488*	*2.85242130*	*0.75758637*	*306.45688652*
RelInt SD	*0.00022443*	*0.00007616*	*0.26776200*	*0.00010894*	*0.00095581*	*0.01016340*	*0.00004686*
Conc Mean	0.05036400[mg/l]	0.21192700[mg/l]	79.15760000[mg/l]	2.08613000[mg/l]	6.87776000[mg/l]	0.79921200[mg/l]	<0.00008094[mg/l]
Conc RSD	*3.23161385*	*0.99354023*	*1.09620681*	*0.44849458*	*2.75967757*	*0.75747611*	*422.45501066*
Conc SD	*0.00162757[mg/l]*	*0.00210558[mg/l]*	*0.86773100[mg/l]*	*0.00935618[mg/l]*	*0.18980400[mg/l]*	*0.00605384[mg/l]*	*0.00034194[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	83786.30000000	8900.84000000	7809.24000000	3397.65000000	3316.09000000	6518.14000000	2540.04000000
Int RSD	*1.15264071*	*0.40706607*	*0.68088700*	*0.96744809*	*1.74860453*	*0.90068026*	*3.89594258*
Int SD	*965.75500000*	*36.23230000*	*53.17210000*	*32.87050000*	*57.98530000*	*58.70760000*	*98.95850000*
RelInt Mean	0.58690000	0.00553904	0.00424776	0.00012137	0.00042080	0.00300667	0.01735710
RelInt RSD	*0.99545408*	*0.68149354*	*0.67290996*	*26.15578552*	*19.89923930*	*1.64775316*	*3.72987999*
RelInt SD	*0.00584232*	*0.00003775*	*0.00002858*	*0.00003175*	*0.00008374*	*0.00004954*	*0.00064740*
Conc Mean	7.45896000[mg/l]	0.05186230[mg/l]	0.13583400[mg/l]	0.00938088[mg/l]	0.02528090[mg/l]	0.05491600[mg/l]	0.01520860[mg/l]
Conc RSD	*1.00446443*	*0.70751779*	*0.66701341*	*17.65420728*	*20.26431021*	*1.63624445*	*3.55492287*
Conc SD	*0.07492260[mg/l]*	*0.00036693[mg/l]*	*0.00090603[mg/l]*	*0.00165612[mg/l]*	*0.00512300[mg/l]*	*0.00089856[mg/l]*	*0.00054065[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	1427850	2900.02000000	9635.56000000	847284	23338400	139941	416049
Int RSD	*2.43819029*	*0.94814863*	*0.73277838*	*0.44238886*	*0.55877867*	*0.17736903*	*0.22482015*
Int SD	*34813.70000000*	*27.49650000*	*70.60730000*	*3748.29000000*	*130410*	*248.21200000*	*935.36200000*
RelInt Mean	0.05993830	-0.00064934	0.00016092	---	---	---	0.49055000
RelInt RSD	*2.00973334*	*3.86362726*	*4.56691421*	---	---	---	*0.22058506*
RelInt SD	*0.00120460*	*0.00002509*	*0.00000735*	---	---	---	*0.00108208*
Conc Mean	0.53396500[mg/l]	<-0.02939040[mg/l]	0.02194660[mg/l]	841865	23292800	139848	1.89645000[mg/l]
Conc RSD	*2.00951373*	*4.15492814*	*5.97673444*	---	---	---	*0.22057634*
Conc SD	*0.01073010[mg/l]*	*0.00122115[mg/l]*	*0.00131169[mg/l]*	*3752.27000000*	*129869*	*133.92900000*	*0.00418312[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-14.89770000	1059.03000000	555388	24105.80000000	4076.08000000	37708.00000000	
Int RSD	*383.98209120*	*9.73305761*	*0.74664379*	*0.33654058*	*0.37121205*	*0.15422775*	
Int SD	*57.20450000*	*103.07600000*	*4146.77000000*	*81.12580000*	*15.13090000*	*58.15620000*	
RelInt Mean	-0.00097351	0.00274232	0.65319600	0.02465570	-0.00024851	0.04077200	
RelInt RSD	*40.68299247*	*28.23503457*	*0.57301178*	*0.70034515*	*15.94730213*	*0.33771706*	
RelInt SD	*0.00039605*	*0.00077429*	*0.00374289*	*0.00017268*	*0.00003963*	*0.00013769*	
Conc Mean	<0.00050404[mg/l]	0.00335090[mg/l]	10.54140000[mg/l]	0.81406100[mg/l]	<-0.00108406[mg/l]	3.63591000[mg/l]	
Conc RSD	*291.58515826*	*39.06622102*	*0.57329672*	*0.75681798*	*14.16240798*	*0.33684552*	
Conc SD	*0.00146970[mg/l]*	*0.00130907[mg/l]*	*0.06043350[mg/l]*	*0.00616096[mg/l]*	*0.00015353[mg/l]*	*0.01224740[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	474718-005	Client ID:	ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-L-LA
Seqnum:	482498973036.2	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	302987	Time:	12-DEC-2022 14:41
Cal:	482498973001	Caldate:	12-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.1901	9.5	0.25	0.0054	!<a- u

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	853570	850509	-0.36

!=warning -=low bias <=opening a=ICSA u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 474718-005,302987			Sample Type: Unknown Sample
Measure Date: 2022-12-12 14:41:33	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	27320.90000000	4729.88000000	2913.10000000	5986.69000000	14890.80000000	35466.20000000	5828.07000000
Int RSD	*0.95743552*	*1.70594814*	*1.24198963*	*0.90056609*	*0.83305128*	*0.59748718*	*0.17294576*
Int SD	*261.58000000*	*80.68930000*	*36.18040000*	*53.91410000*	*124.04800000*	*211.90600000*	*10.07940000*
RelInt Mean	0.00000496	0.03158270	-0.00017051	0.00183484	0.01258810	0.25276800	0.00219238
RelInt RSD	*41.82371728*	*2.35630899*	*30.45892006*	*0.27329849*	*1.54418062*	*0.13713761*	*1.02890922*
RelInt SD	*0.00000207*	*0.00074419*	*0.00005194*	*0.00000501*	*0.00019438*	*0.00034664*	*0.00002256*
Conc Mean	<-0.00042784[mg/l]	3.06277000[mg/l]	<-0.00495545[mg/l]	0.01753720[mg/l]	0.03749140[mg/l]	19.38110000[mg/l]	0.01257300[mg/l]
Conc RSD	*19.07313915*	*2.65742122*	*54.33149361*	*0.33038170*	*1.56047520*	*0.13708252*	*1.02575360*
Conc SD	*0.00008160[mg/l]*	*0.08139070[mg/l]*	*0.00269237[mg/l]*	*0.00005794[mg/l]*	*0.00058504[mg/l]*	*0.02656810[mg/l]*	*0.00012897[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	8055.05000000	265992	21201800	7877.44000000	3762.95000000	934166	3251.13000000
Int RSD	*0.23888368*	*1.26118079*	*0.51527700*	*0.57378412*	*3.57748575*	*0.27511492*	*0.74135147*
Int SD	*19.24220000*	*3354.64000000*	*109248*	*45.19950000*	*134.61900000*	*2570.03000000*	*24.10230000*
RelInt Mean	0.00452563	0.01037990	25.08190000	0.05712100	0.02523380	1.09877000	-0.00003847
RelInt RSD	*0.75373373*	*0.46513647*	*0.66988546*	*0.24391030*	*3.57222059*	*0.60513119*	*122.38680261*
RelInt SD	*0.00003411*	*0.00004828*	*0.16802000*	*0.00013932*	*0.00090141*	*0.00664900*	*0.00004708*
Conc Mean	0.03273530[mg/l]	0.28234200[mg/l]	81.28280000[mg/l]	4.99241000[mg/l]	5.23453000[mg/l]	0.65458000[mg/l]	<-0.00031132[mg/l]
Conc RSD	*0.75578046*	*0.47277415*	*0.67001383*	*0.23963376*	*3.41952382*	*0.60533319*	*110.34276739*
Conc SD	*0.00024741[mg/l]*	*0.00133484[mg/l]*	*0.54460600[mg/l]*	*0.01196350[mg/l]*	*0.17899600[mg/l]*	*0.00396239[mg/l]*	*0.00034352[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	113383	13828.90000000	9227.60000000	3358.59000000	3166.22000000	6453.87000000	2846.33000000
Int RSD	*0.67163861*	*0.29313177*	*0.19674997*	*0.99738879*	*0.74403863*	*0.31872349*	*1.45682335*
Int SD	*761.52400000*	*40.53690000*	*18.15530000*	*33.49820000*	*23.55790000*	*20.57000000*	*41.46600000*
RelInt Mean	0.79803000	0.01127620	0.00594251	0.00016510	0.00037506	0.00328205	0.01954820
RelInt RSD	*0.74193827*	*0.73569731*	*0.21023103*	*18.15626893*	*7.14268574*	*1.30642434*	*2.02204807*
RelInt SD	*0.00592089*	*0.00008296*	*0.00001249*	*0.00002998*	*0.00002679*	*0.00004288*	*0.00039527*
Conc Mean	10.16660000[mg/l]	0.10763600[mg/l]	0.19007400[mg/l]	0.01175260[mg/l]	0.02248230[mg/l]	0.05991080[mg/l]	0.01703820[mg/l]
Conc RSD	*0.74681506*	*0.74920287*	*0.20853404*	*13.24226129*	*7.29004595*	*1.29810151*	*1.93719994*
Conc SD	*0.07592570[mg/l]*	*0.00080641[mg/l]*	*0.00039637[mg/l]*	*0.00155631[mg/l]*	*0.00163897[mg/l]*	*0.00077770[mg/l]*	*0.00033006[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	1215790	2730.33000000	8543.83000000	850509	23162700	139908	533340
Int RSD	*6.62019757*	*0.02540931*	*3.35663280*	*0.36180334*	*0.91886524*	*0.50341939*	*0.30551618*
Int SD	*80487.70000000*	*0.69375800*	*286.78500000*	*3077.17000000*	*212834*	*704.32400000*	*1629.44000000*
RelInt Mean	0.05125170	-0.00059861	0.00011217	---	---	---	0.62756400
RelInt RSD	*7.76844475*	*5.32497949*	*2.49373284*	---	---	---	*0.30188953*
RelInt SD	*0.00398146*	*0.00003188*	*0.00000280*	---	---	---	*0.00189455*
Conc Mean	0.45658800[mg/l]	<-0.02675610[mg/l]	0.01324740[mg/l]	845021	23116700	139862	2.42631000[mg/l]
Conc RSD	*7.76739643*	*5.49654098*	*3.76956988*	---	---	---	*0.30216048*
Conc SD	*0.03546500[mg/l]*	*0.00147066[mg/l]*	*0.00049937[mg/l]*	*3075.90000000*	*212501*	*705.06800000*	*0.00733135[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-69.67540000	942.11800000	378600	21194.30000000	4158.24000000	60569.90000000	
Int RSD	*117.77714947*	*4.08494477*	*0.49629424*	*0.56500097*	*0.95646235*	*0.20160179*	
Int SD	*82.06170000*	*38.48500000*	*1878.97000000*	*119.74800000*	*39.77200000*	*122.11000000*	
RelInt Mean	-0.00143335	0.00228255	0.44190800	0.02139330	-0.00020347	0.06781100	
RelInt RSD	*56.80071162*	*19.14429038*	*0.47656978*	*0.22975137*	*23.80224306*	*0.17787822*	
RelInt SD	*0.00081415*	*0.00043698*	*0.00210600*	*0.00004915*	*0.00004843*	*0.00012062*	
Conc Mean	<-0.00120235[mg/l]	<0.00257358[mg/l]	7.12919000[mg/l]	0.69768100[mg/l]	<-0.00096775[mg/l]	6.04072000[mg/l]	
Conc RSD	*251.27458727*	*28.70647114*	*0.47700510*	*0.25141146*	*17.80142474*	*0.17755003*	
Conc SD	*0.00302120[mg/l]*	*0.00073878[mg/l]*	*0.03400660[mg/l]*	*0.00175405[mg/l]*	*0.00017227[mg/l]*	*0.01072530[mg/l]*	

ENTHALPY BLANK USER REPORT FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06	Lab ID:	QC1031371		
Seqnum:	482498973057.3	Matrix:	Wipe		
File:	met06_master	Batch:	302987	Time:	12-DEC-2022 15:55
Cal:	482498973001	Caldate:	12-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Flags
Lead	A	0.0001085	ND	0.25	!<a- u

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	BLANK Abund	%Drift
Yttrium	A	853570	843491	-1.18

!=warning -=low bias <=opening a=ICSA u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: BLANK,QC1031371,302987			Sample Type: Unknown Sample
Measure Date: 2022-12-12 15:55:07	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	27804.90000000	624.39400000	1749.96000000	4076.39000000	8916.18000000	63.11240000	3703.62000000
Int RSD	*0.92536927*	*6.43135584*	*0.82738463*	*0.80364489*	*1.25707422*	*187.58278880*	*0.20280752*
Int SD	*257.29800000*	*40.15700000*	*14.47890000*	*32.75970000*	*112.08300000*	*118.38800000*	*7.51122000*
RelInt Mean	0.00001652	0.00343826	-0.00014911	0.00034904	0.00604700	-0.00001834	0.00003558
RelInt RSD	*18.64236767*	*12.72210362*	*15.22838997*	*5.94821239*	*1.83537291*	*4336.06329438*	*51.75469413*
RelInt SD	*0.00000308*	*0.00043742*	*0.00002271*	*0.00002076*	*0.00011099*	*0.00079522*	*0.00001842*
Conc Mean	<0.00002732[mg/l]	<-0.01535060[mg/l]	<-0.00381834[mg/l]	<0.00036230[mg/l]	0.01774210[mg/l]	<-0.00871360[mg/l]	<0.00013863[mg/l]
Conc RSD	*443.70754275*	*311.64514742*	*30.82308019*	*66.24206107*	*1.90810558*	*700.01836210*	*81.52366800*
Conc SD	*0.00012123[mg/l]*	*0.04783940[mg/l]*	*0.00117693[mg/l]*	*0.00023999[mg/l]*	*0.00033854[mg/l]*	*0.06099680[mg/l]*	*0.00011301[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3834.33000000	29902.30000000	11191.90000000	-258.43400000	57.33470000	17152.00000000	3269.00000000
Int RSD	*0.59380648*	*1.20038927*	*3.88092281*	*29.15301392*	*70.91447239*	*0.54526761*	*3.43548486*
Int SD	*22.76850000*	*358.94400000*	*434.34900000*	*75.34130000*	*40.65860000*	*93.52430000*	*112.30600000*
RelInt Mean	0.00018963	0.00019911	0.00796544	-0.00100738	-0.00117950	0.01502990	0.00101246
RelInt RSD	*13.38656007*	*2.07174426*	*6.45585178*	*48.30262662*	*30.52573124*	*1.01099142*	*14.65361595*
RelInt SD	*0.00002538*	*0.00000413*	*0.00051424*	*0.00048659*	*0.00036005*	*0.00015195*	*0.00014836*
Conc Mean	0.00129129[mg/l]	0.00084675[mg/l]	0.02465380[mg/l]	<0.00171113[mg/l]	<-0.01056890[mg/l]	0.00895392[mg/l]	0.00735671[mg/l]
Conc RSD	*14.25582170*	*13.46985533*	*6.75960704*	*2441.48603554*	*676.49235020*	*1.01113032*	*14.71459389*
Conc SD	*0.00018408[mg/l]*	*0.00011406[mg/l]*	*0.00166650[mg/l]*	*0.04177700[mg/l]*	*0.07149780[mg/l]*	*0.00009054[mg/l]*	*0.00108251[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	4846.65000000	4183.94000000	3898.76000000	2694.55000000	2047.49000000	2853.46000000	16.81650000
Int RSD	*1.09130637*	*0.52669254*	*0.91492167*	*0.82351413*	*0.80280734*	*1.67568496*	*283.27951714*
Int SD	*52.89180000*	*22.03650000*	*35.67060000*	*22.19000000*	*16.43740000*	*47.81500000*	*47.63770000*
RelInt Mean	0.02319270	0.00034477	-0.00006923	0.00009443	0.00008140	0.00131337	-0.00066053
RelInt RSD	*1.29132443*	*7.90792176*	*43.83011547*	*38.93587324*	*39.88123536*	*3.77848588*	*49.10216446*
RelInt SD	*0.00029949*	*0.00002726*	*0.00003034*	*0.00003677*	*0.00003247*	*0.00004963*	*0.00032434*
Conc Mean	0.22964700[mg/l]	0.00136711[mg/l]	<0.00010852[mg/l]	0.00827108[mg/l]	0.00451666[mg/l]	0.02420350[mg/l]	<0.00016264[mg/l]
Conc RSD	*1.67262364*	*19.38775958*	*881.99108031*	*23.05370036*	*43.97585827*	*3.71913566*	*166.52996225*
Conc SD	*0.00384113[mg/l]*	*0.00026505[mg/l]*	*0.00095717[mg/l]*	*0.00190679[mg/l]*	*0.00198624[mg/l]*	*0.00090016[mg/l]*	*0.00027084[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	34860.50000000	1809.96000000	6540.29000000	843491	23155200	138378	3025.68000000
Int RSD	*2.33806170*	*0.89748945*	*1.79842178*	*0.44866632*	*1.06024133*	*0.57692480*	*0.69841821*
Int SD	*815.06000000*	*16.24420000*	*117.62200000*	*3784.46000000*	*245501*	*798.33700000*	*21.13190000*
RelInt Mean	0.00018364	-0.00020264	0.00004062	---	---	---	0.00060348
RelInt RSD	*12.19472217*	*11.05286794*	*13.16392345*	---	---	---	*3.71055405*
RelInt SD	*0.00002239*	*0.00002240*	*0.00000535*	---	---	---	*0.00002239*
Conc Mean	0.00169391[mg/l]	<-0.00659938[mg/l]	<0.00047451[mg/l]	838414	23110000	138314	0.00180274[mg/l]
Conc RSD	*11.77624549*	*16.28652995*	*201.07542291*	---	---	---	*4.80769273*
Conc SD	*0.00019948[mg/l]*	*0.00107481[mg/l]*	*0.00095413[mg/l]*	*3768.15000000*	*245710*	*796.84700000*	*0.00008667[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-104.99600000	860.74300000	5324.74000000	7289.05000000	3761.92000000	2913.12000000	
Int RSD	*44.10768029*	*7.95367491*	*0.64214215*	*1.18193866*	*0.16112650*	*1.85575603*	
Int SD	*46.31130000*	*68.46070000*	*34.19240000*	*86.15210000*	*6.06145000*	*54.06040000*	
RelInt Mean	-0.00136853	0.00117307	0.00159808	0.00656891	0.00016052	0.00092176	
RelInt RSD	*20.98426779*	*31.90218828*	*4.07764317*	*1.44584261*	*8.32893097*	*7.64013409*	
RelInt SD	*0.00028718*	*0.00037424*	*0.00006516*	*0.00009498*	*0.00001337*	*0.00007042*	
Conc Mean	<-0.00096183[mg/l]	<0.00069783[mg/l]	0.01832770[mg/l]	0.16884400[mg/l]	<0.00039572[mg/l]	0.09168260[mg/l]	
Conc RSD	*110.79747189*	*90.66818758*	*5.62580138*	*2.00676956*	*11.75909290*	*6.83156891*	
Conc SD	*0.00106568[mg/l]*	*0.00063271[mg/l]*	*0.00103108[mg/l]*	*0.00338831[mg/l]*	*0.00004653[mg/l]*	*0.00626336[mg/l]*	

ENTHALPY SPIKE USER REPORT FOR 474718 METALS Wipe

EPA 6010B

Type:	BS	Type:	BSD
Inst:	MET06	Inst:	MET06
Seqnum:	482498973030.3	Seqnum:	482498973031.3
File:	met06_master	File:	met06_master
IDF:	1.0	IDF:	1.0
Lab ID:	QC1031441	Lab ID:	QC1031442
Matrix:	Wipe	Matrix:	Wipe
Batch:	302987	Batch:	302987
Time:	12-DEC-2022 14:22	Time:	12-DEC-2022 14:25
Cal:	482498973001	Cal:	482498973001
Units:	ug/ft2		

- BS: 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF
- BSD: 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Lead	100.0	1.958	97.89	A	98	1.999	99.94	A	100	80-120	2	20	!<a- u

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	BS Abund	%Drift
Yttrium	A	853570	848494	-0.59

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	BSD Abund	%Drift
Yttrium	A	853570	858564	0.59

!=warning -=low bias <=opening a=ICSA u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: BLANK,QC1031371,302987			Sample Type: Unknown Sample
Measure Date: 2022-12-12 14:22:00	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	560420	2342.79000000	32810.50000000	131391	566785	2681.23000000	284483
Int RSD	*1.15668427*	*7.55701535*	*0.51469194*	*0.69019796*	*0.99642192*	*1.67940460*	*0.94643617*
Int SD	*6482.29000000*	*177.04500000*	*168.87300000*	*906.85800000*	*5647.57000000*	*45.02870000*	*2692.45000000*
RelInt Mean	0.02321450	0.01601040	0.03656370	0.15122600	0.66703600	0.01899960	0.33232200
RelInt RSD	*0.39984105*	*6.80588867*	*0.56875535*	*0.44260180*	*0.14719910*	*0.28674551*	*0.14163311*
RelInt SD	*0.00009282*	*0.00108965*	*0.00020796*	*0.00066933*	*0.00098187*	*0.00005448*	*0.00047068*
Conc Mean	0.91321300[mg/l]	1.35964000[mg/l]	1.89752000[mg/l]	1.74440000[mg/l]	2.00317000[mg/l]	1.45005000[mg/l]	2.03254000[mg/l]
Conc RSD	*0.39999869*	*8.76518784*	*0.56793077*	*0.44355194*	*0.14933031*	*0.28842454*	*0.14505200*
Conc SD	*0.00365284[mg/l]*	*0.11917500[mg/l]*	*0.01077660[mg/l]*	*0.00773732[mg/l]*	*0.00299134[mg/l]*	*0.00418230[mg/l]*	*0.00294824[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	236337	1688100	552473	21000.50000000	1170.59000000	2886900	237990
Int RSD	*0.82422558*	*2.74515135*	*0.79259982*	*0.15448251*	*10.68828539*	*0.57484845*	*1.35401487*
Int SD	*1947.95000000*	*46340.90000000*	*4378.90000000*	*32.44210000*	*125.11600000*	*16595.30000000*	*3222.42000000*
RelInt Mean	0.27516500	0.07243270	0.64949000	0.15269600	0.00681015	3.41708000	0.27906700
RelInt RSD	*0.37545836*	*1.97107108*	*0.32479330*	*0.08584442*	*15.65501494*	*0.97279841*	*0.41117724*
RelInt SD	*0.00103313*	*0.00142770*	*0.00210950*	*0.00013108*	*0.00106613*	*0.03324130*	*0.00114746*
Conc Mean	1.99537000[mg/l]	1.99808000[mg/l]	2.10367000[mg/l]	13.19820000[mg/l]	1.57600000[mg/l]	2.03568000[mg/l]	2.03617000[mg/l]
Conc RSD	*0.37579797*	*1.97571669*	*0.32512134*	*0.08523890*	*13.43343909*	*0.97263814*	*0.41129670*
Conc SD	*0.00749856[mg/l]*	*0.03947640[mg/l]*	*0.00683948[mg/l]*	*0.01125000[mg/l]*	*0.21171100[mg/l]*	*0.01979980[mg/l]*	*0.00837470[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	22497.90000000	176646	56184.80000000	32844.10000000	22726.20000000	3044.73000000	342469
Int RSD	*0.50506936*	*0.86080070*	*0.77643776*	*0.92327389*	*1.21602820*	*0.45063437*	*0.91771226*
Int SD	*113.63000000*	*1520.57000000*	*436.24000000*	*303.24100000*	*276.35700000*	*13.72060000*	*3142.88000000*
RelInt Mean	0.15015400	0.20429300	0.06169370	0.03565360	0.02451470	0.00138795	2.47217000
RelInt RSD	*0.28651318*	*0.21494765*	*0.41213609*	*0.14965642*	*0.27328990*	*0.32274073*	*0.79793056*
RelInt SD	*0.00043021*	*0.00043912*	*0.00025426*	*0.00005336*	*0.00006700*	*0.00000448*	*0.01972620*
Conc Mean	1.85787000[mg/l]	1.98402000[mg/l]	1.95780000[mg/l]	1.84114000[mg/l]	1.49935000[mg/l]	0.02555620[mg/l]	2.06514000[mg/l]
Conc RSD	*0.29725654*	*0.21502807*	*0.41087088*	*0.14841837*	*0.27333845*	*0.31778277*	*0.79759726*
Conc SD	*0.00552264[mg/l]*	*0.00426620[mg/l]*	*0.00804403[mg/l]*	*0.00273259[mg/l]*	*0.00409830[mg/l]*	*0.00008121[mg/l]*	*0.01647150[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	5489260	35774.80000000	266404	848494	22925600	138557	400459
Int RSD	*2.59375581*	*0.92908696*	*1.76217699*	*1.07614432*	*0.98987158*	*0.42117684*	*0.99993757*
Int SD	*142378*	*332.37900000*	*4694.51000000*	*9131.02000000*	*226934*	*583.57000000*	*4004.34000000*
RelInt Mean	0.23817600	0.03984450	0.01137600	---	---	---	0.47138200
RelInt RSD	*1.80867510*	*0.16298937*	*0.99989451*	---	---	---	*0.20333106*
RelInt SD	*0.00430783*	*0.00006494*	*0.00011375*	---	---	---	*0.00095847*
Conc Mean	2.12163000[mg/l]	1.90704000[mg/l]	2.02275000[mg/l]	843356	22880500	138497	1.82135000[mg/l]
Conc RSD	*1.80868012*	*0.16916793*	*1.00347052*	---	---	---	*0.20347764*
Conc SD	*0.03837350[mg/l]*	*0.00322610[mg/l]*	*0.02029770[mg/l]*	*9068.37000000*	*227031*	*609.72000000*	*0.00370604[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	79121.90000000	150920	448464	8305.26000000	421368	4532.67000000	
Int RSD	*0.43028163*	*0.74448715*	*0.83232099*	*1.14564746*	*0.90842209*	*0.99802545*	
Int SD	*340.44700000*	*1123.58000000*	*3732.66000000*	*95.14900000*	*3827.80000000*	*45.23720000*	
RelInt Mean	0.57018100	1.07844000	0.52611500	0.00758281	0.49420500	0.00269793	
RelInt RSD	*0.46824429*	*0.43111810*	*0.27256398*	*2.70991888*	*0.17757246*	*4.04258079*	
RelInt SD	*0.00266984*	*0.00464935*	*0.00143400*	*0.00020549*	*0.00087757*	*0.00010907*	
Conc Mean	2.11998000[mg/l]	1.82200000[mg/l]	8.44324000[mg/l]	0.20501300[mg/l]	1.84973000[mg/l]	0.24965200[mg/l]	
Conc RSD	*0.46718931*	*0.43149671*	*0.27616650*	*3.57552448*	*0.17625545*	*3.88535642*	
Conc SD	*0.00990432[mg/l]*	*0.00786187[mg/l]*	*0.02331740[mg/l]*	*0.00733029[mg/l]*	*0.00326025[mg/l]*	*0.00969987[mg/l]*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: LCS,QC1031372,302987			Sample Type: Unknown Sample
Measure Date: 2022-12-12 14:25:16	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	579820	2459.70000000	33495.40000000	134769	583540	2849.11000000	293673
Int RSD	*1.50125729*	*10.33837460*	*0.57236516*	*0.40912747*	*0.27749255*	*6.48177852*	*0.31950401*
Int SD	*8704.59000000*	*254.29300000*	*191.71600000*	*551.37700000*	*1619.28000000*	*184.67300000*	*938.29700000*
RelInt Mean	0.02381930	0.01625480	0.03691310	0.15334500	0.67877200	0.02031330	0.33910600
RelInt RSD	*1.15600794*	*10.08938898*	*0.31831247*	*0.59626007*	*0.08073241*	*5.28722561*	*0.28987101*
RelInt SD	*0.00027535*	*0.00164001*	*0.00011750*	*0.00091434*	*0.00054799*	*0.00107401*	*0.00098297*
Conc Mean	0.93702100[mg/l]	1.38637000[mg/l]	1.91561000[mg/l]	1.76890000[mg/l]	2.03840000[mg/l]	1.55081000[mg/l]	2.07403000[mg/l]
Conc RSD	*1.15683640*	*12.93767176*	*0.31801828*	*0.59782351*	*0.08044103*	*5.31209497*	*0.29167514*
Conc SD	*0.01083980[mg/l]*	*0.17936400[mg/l]*	*0.00609199[mg/l]*	*0.01057490[mg/l]*	*0.00163971[mg/l]*	*0.08238050[mg/l]*	*0.00604943[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	242661	1729340	573281	21727.00000000	1237.24000000	2977800	245869
Int RSD	*0.42612121*	*1.36833127*	*0.32173925*	*2.31973121*	*9.83632925*	*0.54808584*	*0.58631629*
Int SD	*1034.03000000*	*23663.10000000*	*1844.47000000*	*504.00800000*	*121.69900000*	*16320.90000000*	*1441.57000000*
RelInt Mean	0.27925600	0.07356250	0.66615700	0.15764400	0.00709482	3.48311000	0.28498700
RelInt RSD	*0.21596993*	*0.74127443*	*0.07522116*	*1.79231052*	*7.49503159*	*0.32494524*	*0.33213199*
RelInt SD	*0.00060311*	*0.00054530*	*0.00050109*	*0.00282547*	*0.00053176*	*0.01131820*	*0.00094653*
Conc Mean	2.02504000[mg/l]	2.02932000[mg/l]	2.15769000[mg/l]	13.62290000[mg/l]	1.63253000[mg/l]	2.07502000[mg/l]	2.07937000[mg/l]
Conc RSD	*0.21613005*	*0.74316027*	*0.07522489*	*1.78078823*	*6.46842631*	*0.32487639*	*0.33210011*
Conc SD	*0.00437672[mg/l]*	*0.01508110[mg/l]*	*0.00162312[mg/l]*	*0.24259500[mg/l]*	*0.10559900[mg/l]*	*0.00674125[mg/l]*	*0.00690559[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	22872.00000000	182029	57966.00000000	34139.10000000	23205.30000000	3013.29000000	346690
Int RSD	*1.67877754*	*0.19127392*	*0.52626712*	*0.44056229*	*0.52851288*	*0.77972581*	*0.14326863*
Int SD	*383.97000000*	*348.17400000*	*305.05600000*	*150.40400000*	*122.64300000*	*23.49540000*	*496.69800000*
RelInt Mean	0.15257600	0.20811700	0.06298700	0.03670510	0.02476930	0.00130262	2.49966000
RelInt RSD	*1.48773070*	*0.11911761*	*0.32585454*	*0.19507589*	*0.55257113*	*3.91794230*	*0.45296160*
RelInt SD	*0.00226992*	*0.00024790*	*0.00020525*	*0.00007160*	*0.00013687*	*0.00005104*	*0.01132250*
Conc Mean	1.88893000[mg/l]	2.02119000[mg/l]	1.99880000[mg/l]	1.89552000[mg/l]	1.51493000[mg/l]	0.02400870[mg/l]	2.08809000[mg/l]
Conc RSD	*1.54110528*	*0.11919513*	*0.32650040*	*0.19467323*	*0.55269946*	*3.85539409*	*0.45288517*
Conc SD	*0.02911040[mg/l]*	*0.00240916[mg/l]*	*0.00652609[mg/l]*	*0.00369007[mg/l]*	*0.00837301[mg/l]*	*0.00092563[mg/l]*	*0.00945665[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	5660510	36706.30000000	276586	858564	23127000	138699	414910
Int RSD	*1.67616522*	*0.33084784*	*2.05753003*	*0.28531245*	*0.62843430*	*0.61467566*	*0.51500084*
Int SD	*94879.50000000*	*121.44200000*	*5690.84000000*	*2449.59000000*	*145338*	*852.54900000*	*2136.79000000*
RelInt Mean	0.24349600	0.04044680	0.01170880	---	---	---	0.48271500
RelInt RSD	*1.08864622*	*0.13905278*	*1.62675936*	---	---	---	*0.29668231*
RelInt SD	*0.00265081*	*0.00005624*	*0.00019047*	---	---	---	*0.00143213*
Conc Mean	2.16902000[mg/l]	1.93575000[mg/l]	2.08213000[mg/l]	853388	23080800	138641	1.86517000[mg/l]
Conc RSD	*1.08843625*	*0.13854630*	*1.63248692*	---	---	---	*0.29681101*
Conc SD	*0.02360840[mg/l]*	*0.00268191[mg/l]*	*0.03399050[mg/l]*	*2444.22000000*	*145015*	*776.57300000*	*0.00553603[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	80861.60000000	149987	446787	8581.48000000	434297	4621.29000000	
Int RSD	*0.69126137*	*2.27307033*	*0.36052302*	*0.46267777*	*0.36256985*	*1.49690022*	
Int SD	*558.96500000*	*3409.31000000*	*1610.77000000*	*39.70460000*	*1574.63000000*	*69.17610000*	
RelInt Mean	0.58190200	1.06983000	0.51791000	0.00779507	0.50340800	0.00275245	
RelInt RSD	*0.15340951*	*1.80367909*	*0.14168504*	*0.23231350*	*0.22923156*	*3.09284456*	
RelInt SD	*0.00089269*	*0.01929630*	*0.00073380*	*0.00001811*	*0.00115397*	*0.00008513*	
Conc Mean	2.16347000[mg/l]	1.80743000[mg/l]	8.30977000[mg/l]	0.21258600[mg/l]	1.88425000[mg/l]	0.25450200[mg/l]	
Conc RSD	*0.15306706*	*1.80527600*	*0.14098465*	*0.30395134*	*0.22996471*	*2.97494715*	
Conc SD	*0.00331156[mg/l]*	*0.03262910[mg/l]*	*0.01171550[mg/l]*	*0.00064616[mg/l]*	*0.00433311[mg/l]*	*0.00757130[mg/l]*	

ENTHALPY INITIAL CALIBRATION FOR 474718 METALS Wipe: EPA 6010B

Instrument:	MET06		
Calibration #:	482498973001	Date:	12-DEC-2022 12:51
Units:	mg/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	met06_master	482498973006	L1	12-DEC-2022 12:54	S17470, S13369 (100X)
L2	met06_master	482498973007	L2	12-DEC-2022 12:57	S17469, S13369 (100X)
L3	met06_master	482498973008	L3	12-DEC-2022 13:00	S17466, S13369 (100X)
L4	met06_master	482498973009	L4	12-DEC-2022 13:04	S17429, S13369 (100X)

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Flags
Lead	A	0.0043	0.0329	0.0334	0.0315	WB1K	0.00230	31.7026		0.0255	1.000		5	0.995	

Instrument amount = a0 + (response × a1) + (response² × a2)
WB1K: Linear regression with ICALBLK weighting factor of 1000

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D
Lead	A	0.0033	-17	0.1000	7	1.0000	6	10.000	0

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06		
Calnum:	482498973001	Cal Date:	12-DEC-2022

- ICV 482498973014 (12-DEC-2022) stds: S17413, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	0.9751	mg/l	-2	10	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICALBLK,CALBLANK			Sample Type: Calibration Sample
Measure Date: 2022-12-12 12:51:01	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	27725.80000000	639.48100000	1634.35000000	3921.73000000	3839.40000000	44.63770000	3609.79000000
Int RSD	*0.64362435*	*11.01275878*	*1.04705846*	*0.51520120*	*0.70105225*	*291.05218235*	*0.21508509*
Int SD	*178.45000000*	*70.42450000*	*17.11260000*	*20.20480000*	*26.91620000*	*129.91900000*	*7.76412000*
RelInt Mean	0.00001583	0.00358682	-0.00007591	0.00031910	0.00014542	0.00009255	0.00000983
RelInt RSD	*36.88273692*	*6.60086093*	*23.55345063*	*3.71968398*	*17.10392584*	*500.55160148*	*114.71600636*
RelInt SD	*0.00000584*	*0.00023676*	*0.00001788*	*0.00001187*	*0.00002487*	*0.00046325*	*0.00001127*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3591.68000000	29396.70000000	4696.13000000	-264.35100000	106.74300000	4283.12000000	2245.00000000
Int RSD	*0.08233501*	*0.28708052*	*0.86190970*	*20.86888266*	*69.93835661*	*0.41238163*	*1.06531403*
Int SD	*2.95721000*	*84.39220000*	*40.47640000*	*55.16710000*	*74.65430000*	*17.66280000*	*23.91630000*
RelInt Mean	0.00000880	0.00016976	0.00033522	-0.00102731	-0.00112887	-0.00012320	0.00000958
RelInt RSD	*188.25643921*	*0.82433053*	*13.45257983*	*78.37809425*	*16.97104184*	*23.39767525*	*433.70299266*
RelInt SD	*0.00001657*	*0.00000140*	*0.00004510*	*0.00080519*	*0.00019158*	*0.00002883*	*0.00004154*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	2354.79000000	4020.01000000	3720.78000000	2422.39000000	1839.63000000	1621.82000000	-10.42710000
Int RSD	*8.94054247*	*0.73172952*	*0.08568418*	*0.30897708*	*2.00189712*	*1.93443169*	*951.82169539*
Int SD	*210.53100000*	*29.41560000*	*3.18812000*	*7.48463000*	*36.82750000*	*31.37300000*	*99.24740000*
RelInt Mean	0.00560261	0.00020112	-0.00007446	-0.00006595	0.00000776	-0.00002252	-0.00085529
RelInt RSD	*16.25867230*	*17.83682054*	*19.70820564*	*12.12059410*	*97.70188400*	*162.25299075*	*25.86707230*
RelInt SD	*0.00091091*	*0.00003587*	*0.00001468*	*0.00000799*	*0.00000758*	*0.00003654*	*0.00022124*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	30092.00000000	1604.46000000	6460.93000000	853570	24697000	142091	2488.63000000
Int RSD	*0.73965838*	*0.20616033*	*0.97088345*	*0.28779948*	*0.18851763*	*0.21248214*	*0.99156966*
Int SD	*222.57800000*	*3.30776000*	*62.72810000*	*2456.57000000*	*46558.20000000*	*301.91800000*	*24.67650000*
RelInt Mean	-0.00000653	-0.00006823	0.00003799	---	---	---	0.00013863
RelInt RSD	*76.04245826*	*24.66227654*	*6.09152918*	---	---	---	*35.74928224*
RelInt SD	*0.00000496*	*0.00001683*	*0.00000231*	---	---	---	*0.00004956*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-53.12140000	747.64000000	4213.35000000	3234.14000000	3628.25000000	1961.89000000	
Int RSD	*88.47658382*	*7.31453641*	*1.42549990*	*1.33283964*	*0.86096603*	*0.87775054*	
Int SD	*47.00000000*	*54.68640000*	*60.06130000*	*43.10590000*	*31.23800000*	*17.22050000*	
RelInt Mean	-0.00110932	0.00083080	0.00045293	0.00183586	0.00005708	-0.00010909	
RelInt RSD	*19.41017921*	*57.76892958*	*17.73050522*	*3.01085595*	*69.79926448*	*16.78344883*	
RelInt SD	*0.00021532*	*0.00047995*	*0.00008031*	*0.00005528*	*0.00003984*	*0.00001831*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L1,S17470			Sample Type: Calibration Sample
Measure Date: 2022-12-12 12:54:18	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	27747.20000000	668.02000000	1699.29000000	4133.61000000	4802.97000000	84.51170000	3839.03000000
Int RSD	*0.43268150*	*8.02866681*	*0.34501704*	*1.46092399*	*0.25627060*	*46.98284380*	*0.54075118*
Int SD	*120.05700000*	*53.63310000*	*5.86284000*	*60.38890000*	*12.30860000*	*39.70600000*	*20.75960000*
RelInt Mean	0.00001705	0.00376712	-0.00002989	0.00051400	0.00124067	0.00010852	0.00027561
RelInt RSD	*27.47802066*	*17.04970906*	*28.20572946*	*10.78663424*	*2.46391869*	*637.22666077*	*16.60915849*
RelInt SD	*0.00000469*	*0.00064228*	*0.00000843*	*0.00005544*	*0.00003057*	*0.00069151*	*0.00004578*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4025.50000000	32258.90000000	6932.69000000	-99.76180000	186.91800000	9329.12000000	2622.21000000
Int RSD	*0.31927462*	*0.57875811*	*0.43480092*	*37.85787746*	*19.63796959*	*0.13896809*	*1.63901061*
Int SD	*12.85240000*	*186.70100000*	*30.14340000*	*37.76770000*	*36.70690000*	*12.96450000*	*42.97830000*
RelInt Mean	0.00050197	0.00028465	0.00295257	0.00003451	-0.00008004	0.00576472	0.00047857
RelInt RSD	*2.01700091*	*2.25026172*	*1.34385976*	*357.36038550*	*514.78618715*	*0.24852204*	*6.38014184*
RelInt SD	*0.00001012*	*0.00000641*	*0.00003968*	*0.00012333*	*0.00041206*	*0.00001433*	*0.00003053*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	7370.21000000	4333.09000000	3804.90000000	2604.88000000	1975.23000000	1809.48000000	1710.85000000
Int RSD	*0.69829218*	*0.26480872*	*0.13273910*	*0.18078568*	*2.02866502*	*0.36469815*	*2.81851711*
Int SD	*51.46560000*	*11.47440000*	*5.05059000*	*4.70925000*	*40.07080000*	*6.59914000*	*48.22060000*
RelInt Mean	0.04177450	0.00056438	0.00001446	0.00012611	0.00017509	0.00020213	0.01102340
RelInt RSD	*1.15710541*	*9.67709814*	*256.20659602*	*30.76750456*	*23.64675310*	*8.98986801*	*2.84298855*
RelInt SD	*0.00048338*	*0.00005462*	*0.00003704*	*0.00003880*	*0.00004140*	*0.00001817*	*0.00031339*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	39429.50000000	1783.87000000	6672.45000000	854058	24755400	140113	4752.95000000
Int RSD	*0.45335345*	*0.94026471*	*0.76482701*	*0.28271967*	*0.64284156*	*0.24143655*	*1.38728579*
Int SD	*178.75500000*	*16.77310000*	*51.03270000*	*2414.59000000*	*159138*	*338.28400000*	*65.93700000*
RelInt Mean	0.00036463	0.00013295	0.00004648	---	---	---	0.00280165
RelInt RSD	*2.07426351*	*34.82846806*	*4.15185832*	---	---	---	*2.07253226*
RelInt SD	*0.00000756*	*0.00004630*	*0.00000193*	---	---	---	*0.00005807*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-54.48060000	946.59200000	9684.03000000	27038.10000000	4007.04000000	11982.70000000	
Int RSD	*197.84106636*	*5.61581970*	*1.75736754*	*0.45174032*	*0.55291437*	*0.47319970*	
Int SD	*107.78500000*	*53.15890000*	*170.18400000*	*122.14200000*	*22.15550000*	*56.70210000*	
RelInt Mean	-0.00128155	0.00199057	0.00681236	0.02983440	0.00048562	0.01167570	
RelInt RSD	*43.50528657*	*16.10352814*	*2.26532362*	*0.73103531*	*10.00560114*	*0.40317754*	
RelInt SD	*0.00055754*	*0.00032055*	*0.00015432*	*0.00021810*	*0.00004859*	*0.00004707*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L2,S17469			Sample Type: Calibration Sample
Measure Date: 2022-12-12 12:57:34	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	27961.40000000	637.18900000	3307.09000000	10912.90000000	32492.40000000	82.93310000	10864.70000000
Int RSD	*1.87811411*	*6.97301742*	*1.44569697*	*0.37762190*	*0.04328151*	*219.26950759*	*0.84026342*
Int SD	*525.14700000*	*44.43130000*	*47.81050000*	*41.20950000*	*14.06320000*	*181.84700000*	*91.29210000*
RelInt Mean	0.00001829	0.00361895	0.00186249	0.00847257	0.03364880	0.00010847	0.00850960
RelInt RSD	*25.52003412*	*14.39190926*	*3.30902716*	*0.90396538*	*0.37999275*	*1076.14798153*	*1.03154790*
RelInt SD	*0.00000467*	*0.00052084*	*0.00006163*	*0.00007659*	*0.00012786*	*0.00116733*	*0.00008778*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	15544.10000000	113258	58657.90000000	-283.88100000	125.39100000	154619	13024.50000000
Int RSD	*1.15530008*	*0.90516343*	*0.36764869*	*40.97033616*	*71.18453478*	*0.28989387*	*1.66556874*
Int SD	*179.58100000*	*1025.17000000*	*215.65500000*	*116.30700000*	*89.25900000*	*448.23100000*	*216.93200000*
RelInt Mean	0.01395960	0.00352034	0.06343880	-0.00104566	-0.00086064	0.17570700	0.01260530
RelInt RSD	*1.39223187*	*1.36700716*	*0.04562429*	*61.03790907*	*45.53674653*	*0.43949302*	*2.10107653*
RelInt SD	*0.00019435*	*0.00004812*	*0.00002894*	*0.00063825*	*0.00039191*	*0.00077222*	*0.00026485*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	2395.24000000	12723.50000000	6587.19000000	7462.62000000	5846.61000000	6507.95000000	84788.40000000
Int RSD	*5.17572352*	*0.81871340*	*0.53105042*	*0.18492969*	*2.00481989*	*0.52522837*	*1.17996094*
Int SD	*123.97100000*	*104.16900000*	*34.98130000*	*13.80060000*	*117.21400000*	*34.18160000*	*1000.47000000*
RelInt Mean	0.00647134	0.01038900	0.00329096	0.00579966	0.00471026	0.00570716	0.59645600
RelInt RSD	*11.58832637*	*0.82439600*	*1.08588983*	*0.30829738*	*2.67123259*	*1.27239292*	*0.20719885*
RelInt SD	*0.00074992*	*0.00008565*	*0.00003574*	*0.00001788*	*0.00012582*	*0.00007262*	*0.00123585*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	299967	6942.75000000	13324.70000000	859561	24931600	142085	67426.50000000
Int RSD	*1.44966280*	*2.14111123*	*0.69312405*	*0.38125974*	*0.13476793*	*1.14133089*	*0.14037700*
Int SD	*4348.51000000*	*148.65200000*	*92.35670000*	*3277.16000000*	*33599.80000000*	*1621.66000000*	*94.65130000*
RelInt Mean	0.01081200	0.00614936	0.00031212	---	---	---	0.07607000
RelInt RSD	*1.73351831*	*2.72971496*	*0.93771606*	---	---	---	*0.27161693*
RelInt SD	*0.00018743*	*0.00016786*	*0.00000293*	---	---	---	*0.00020662*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	506.77100000	7764.56000000	4369.53000000	2194.24000000	15175.20000000	1987.14000000	
Int RSD	*38.85897180*	*3.41352247*	*0.57450801*	*1.58207398*	*0.36819416*	*1.15892187*	
Int SD	*196.92600000*	*265.04500000*	*25.10330000*	*34.71450000*	*55.87420000*	*23.02940000*	
RelInt Mean	0.00261749	0.04999870	0.00058731	0.00061787	0.01354690	-0.00008088	
RelInt RSD	*49.52339837*	*2.30653997*	*4.12248067*	*6.63608320*	*0.32814961*	*50.65766293*	
RelInt SD	*0.00129627*	*0.00115324*	*0.00002421*	*0.00004100*	*0.00004445*	*0.00004097*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L3,S17466			Sample Type: Calibration Sample
Measure Date: 2022-12-12 13:00:51	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28285.40000000	2256.28000000	18342.30000000	75712.20000000	289291	91.76680000	74398.40000000
Int RSD	*0.95374999*	*3.55386300*	*0.41047851*	*0.30930946*	*0.26028290*	*34.09348479*	*0.48412600*
Int SD	*269.77200000*	*80.18510000*	*75.29120000*	*234.18500000*	*752.97500000*	*31.28650000*	*360.18200000*
RelInt Mean	0.00002025	0.01502570	0.01972520	0.08582160	0.34034700	0.00037124	0.08420530
RelInt RSD	*26.41107309*	*4.42111183*	*0.47250573*	*1.00058610*	*0.87758964*	*170.51327291*	*0.25927703*
RelInt SD	*0.00000535*	*0.00066430*	*0.00009320*	*0.00085872*	*0.00298685*	*0.00063302*	*0.00021833*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	121891	887273	542386	-360.62800000	97.06600000	1494600	113340
Int RSD	*0.33586155*	*1.27106313*	*0.28112451*	*26.09314862*	*108.61887788*	*0.40595678*	*1.77422799*
Int SD	*409.38500000*	*11277.80000000*	*1524.78000000*	*94.09920000*	*105.43200000*	*6067.43000000*	*2010.91000000*
RelInt Mean	0.14081000	0.03521260	0.64139700	-0.00156513	-0.00135801	1.77687000	0.13231300
RelInt RSD	*0.37093530*	*0.74997870*	*0.64141398*	*26.40215190*	*53.36507095*	*0.46394897*	*1.90996350*
RelInt SD	*0.00052231*	*0.00026409*	*0.00411401*	*0.00041323*	*0.00072470*	*0.00824377*	*0.00252713*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	2469.80000000	93453.50000000	31975.00000000	51879.30000000	43069.00000000	49064.80000000	839162
Int RSD	*3.61030448*	*0.46060875*	*0.24903862*	*0.18109670*	*0.65968330*	*0.20422584*	*0.88871279*
Int SD	*89.16730000*	*430.45500000*	*79.63010000*	*93.95170000*	*284.11900000*	*100.20300000*	*7457.74000000*
RelInt Mean	0.00667201	0.10655800	0.03342690	0.05863060	0.04906220	0.05643940	5.98685000
RelInt RSD	*2.36090773*	*0.38858274*	*0.85847626*	*0.86962269*	*0.93030276*	*0.85965478*	*0.35321914*
RelInt SD	*0.00015752*	*0.00041407*	*0.00028696*	*0.00050986*	*0.00045643*	*0.00048518*	*0.02114670*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	2744870	56458.60000000	74233.40000000	843268	24438100	140221	653491
Int RSD	*0.95528386*	*0.31502552*	*1.11678571*	*0.70262953*	*0.84694391*	*0.60093495*	*0.22584244*
Int SD	*26221.30000000*	*177.85900000*	*829.02800000*	*5925.05000000*	*206977*	*842.63700000*	*1475.86000000*
RelInt Mean	0.11108900	0.06509420	0.00280254	---	---	---	0.77607000
RelInt RSD	*0.43135054*	*0.69983040*	*0.41463458*	---	---	---	*0.51237002*
RelInt SD	*0.00047918*	*0.00045555*	*0.00001162*	---	---	---	*0.00397635*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	17812.10000000	74727.40000000	5553.56000000	2816.25000000	117025	2215.77000000	
Int RSD	*0.98616671*	*1.24263389*	*0.36409978*	*3.08249268*	*0.61145054*	*0.26860550*	
Int SD	*175.65700000*	*928.58800000*	*20.22050000*	*86.81070000*	*715.55000000*	*5.95168000*	
RelInt Mean	0.12617300	0.52568700	0.00191740	0.00123766	0.13496200	0.00007001	
RelInt RSD	*0.35284253*	*1.03545646*	*3.94859706*	*10.79626069*	*0.15601725*	*21.54340560*	
RelInt SD	*0.00044519*	*0.00544326*	*0.00007571*	*0.00013362*	*0.00021056*	*0.00001508*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L4,S17429			Sample Type: Calibration Sample
Measure Date: 2022-12-12 13:04:07	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	33691.10000000	25716.50000000	162959	723853	2761520	26.95260000	683464
Int RSD	*0.85982648*	*1.66642428*	*0.65169153*	*0.23565006*	*0.14844759*	*75.30182617*	*0.33676682*
Int SD	*289.68500000*	*428.54600000*	*1061.99000000*	*1705.76000000*	*4099.41000000*	*20.29580000*	*2301.68000000*
RelInt Mean	-0.00002241	0.18687400	0.19278200	0.86552300	3.31606000	-0.00020537	0.81575300
RelInt RSD	*69.26352247*	*1.50131104*	*0.51448320*	*0.30961165*	*0.19798737*	*245.10683261*	*0.54713988*
RelInt SD	*0.00001552*	*0.00280556*	*0.00099183*	*0.00267976*	*0.00656538*	*0.00050337*	*0.00446331*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	1152220	8503830	5133550	-161.64900000	52.16950000	13949500	1143320
Int RSD	*0.35345333*	*0.86917542*	*0.27944015*	*37.39899412*	*99.02950958*	*0.30091258*	*0.71059721*
Int SD	*4072.56000000*	*73913.20000000*	*14345.20000000*	*60.45510000*	*51.66320000*	*41975.80000000*	*8124.40000000*
RelInt Mean	1.37867000	0.36194800	6.16928000	-0.00071462	-0.00155375	16.77540000	1.37100000
RelInt RSD	*0.36517296*	*1.15723253*	*0.37182297*	*41.80589043*	*41.14265487*	*0.48547218*	*0.72222465*
RelInt SD	*0.00503453*	*0.00418858*	*0.02293880*	*0.00029875*	*0.00063925*	*0.08143990*	*0.00990170*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	2488.14000000	860819	267496	485052	2948.36000000	460893	7829620
Int RSD	*8.75658122*	*0.02455998*	*0.28688317*	*0.31279533*	*1.44872404*	*0.07519120*	*0.43633918*
Int SD	*217.87600000*	*211.41700000*	*767.40100000*	*1517.22000000*	*42.71360000*	*346.55100000*	*34163.70000000*
RelInt Mean	0.00715238	1.02851000	0.31516100	0.57817900	0.00032997	0.55118300	57.21290000
RelInt RSD	*14.73327759*	*0.22054331*	*0.51492412*	*0.39724030*	*12.75618685*	*0.23668546*	*0.66036156*
RelInt SD	*0.00105378*	*0.00226831*	*0.00162284*	*0.00229676*	*0.00004209*	*0.00130457*	*0.37781200*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	26285000	522121	663259	836806	23391500	136862	6143050
Int RSD	*1.06674529*	*0.13642508*	*0.67606320*	*0.24002696*	*0.28989248*	*0.84741564*	*0.17504823*
Int SD	*280394*	*712.30400000*	*4484.05000000*	*2008.56000000*	*67810.20000000*	*1159.79000000*	*10753.30000000*
RelInt Mean	1.12275000	0.62395500	0.02805690	---	---	---	7.38376000
RelInt RSD	*1.32166555*	*0.32655881*	*0.96607608*	---	---	---	*0.37220332*
RelInt SD	*0.01483900*	*0.00203758*	*0.00027105*	---	---	---	*0.02748260*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	184513	818036	17896.30000000	8683.57000000	1113010	3979.34000000	
Int RSD	*0.29802507*	*2.08483490*	*0.24946665*	*0.71355099*	*0.18964699*	*0.56887574*	
Int SD	*549.89500000*	*17054.70000000*	*44.64530000*	*61.96170000*	*2110.79000000*	*22.63750000*	
RelInt Mean	1.34702000	5.92158000	0.01612060	0.00720568	1.33063000	0.00121121	
RelInt RSD	*0.62152975*	*1.66247015*	*0.86645658*	*0.81655305*	*0.25336946*	*2.91200535*	
RelInt SD	*0.00837213*	*0.09844450*	*0.00013968*	*0.00005884*	*0.00337141*	*0.00003527*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L5,S17316			Sample Type: Calibration Sample
Measure Date: 2022-12-12 13:07:24	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	1271780	607.09700000	1925.25000000	6277.24000000	3991.86000000	25.34350000	3688.03000000
Int RSD	*0.92516001*	*5.08085199*	*1.68149591*	*3.80084241*	*0.54787743*	*246.57367767*	*0.76383869*
Int SD	*11766.00000000*	*30.84570000*	*32.37300000*	*238.58800000*	*21.87050000*	*62.49040000*	*28.17060000*
RelInt Mean	0.05082260	0.00352750	0.00021015	0.00305879	0.00024470	-0.00003126	0.00004514
RelInt RSD	*1.36831843*	*4.37502481*	*20.32095664*	*9.83748476*	*10.55079689*	*1186.18280464*	*88.24358151*
RelInt SD	*0.00069542*	*0.00015433*	*0.00004271*	*0.00030091*	*0.00002582*	*0.00037080*	*0.00003984*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3708.98000000	29787.30000000	6026.07000000	-262.49800000	108.75800000	4716.23000000	9506.34000000
Int RSD	*0.49486112*	*0.69657874*	*3.18270448*	*12.33377016*	*83.84596995*	*0.57764570*	*11.86807962*
Int SD	*18.35430000*	*207.49200000*	*191.79200000*	*32.37590000*	*91.18920000*	*27.24310000*	*1128.22000000*
RelInt Mean	0.00010504	0.00018331	0.00184594	-0.00111111	-0.00111493	0.00032026	0.00861599
RelInt RSD	*12.88471059*	*3.41791908*	*12.93070197*	*12.77254277*	*29.76276538*	*15.91753002*	*15.75361624*
RelInt SD	*0.00001353*	*0.00000627*	*0.00023869*	*0.00014192*	*0.00033183*	*0.00005098*	*0.00135733*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	2573.34000000	4079.39000000	3765.86000000	2601.54000000	1897.81000000	1895.30000000	-10.47810000
Int RSD	*4.20566268*	*0.67948885*	*0.67400541*	*0.16231463*	*0.74838366*	*2.17852055*	*440.97212281*
Int SD	*108.22600000*	*27.71900000*	*25.38210000*	*4.22268000*	*14.20290000*	*41.28950000*	*46.20550000*
RelInt Mean	0.00725129	0.00019757	-0.00008455	0.00007887	0.00002662	0.00026283	-0.00050348
RelInt RSD	*10.77107659*	*19.52356850*	*22.95405169*	*17.60087128*	*93.59152046*	*19.88448983*	*81.30699118*
RelInt SD	*0.00078104*	*0.00003857*	*0.00001941*	*0.00001388*	*0.00002492*	*0.00005226*	*0.00040936*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	48018.80000000	2145.73000000	6585.40000000	846157	24479200	139644	2899.11000000
Int RSD	*2.37721476*	*8.57102245*	*1.05538464*	*0.20894704*	*0.79965849*	*0.72069692*	*0.29665794*
Int SD	*1141.51000000*	*183.91100000*	*69.50130000*	*1768.02000000*	*195750*	*1006.41000000*	*8.60044000*
RelInt Mean	0.00072236	0.00051580	0.00004361	---	---	---	0.00057908
RelInt RSD	*6.48357673*	*40.66649477*	*12.13162945*	---	---	---	*2.24471399*
RelInt SD	*0.00004683*	*0.00020976*	*0.00000529*	---	---	---	*0.00001300*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-75.14050000	802.79700000	5728.60000000	3828.74000000	3734.49000000	2022.32000000	
Int RSD	*123.82137462*	*9.86482261*	*1.20805607*	*2.18076704*	*1.56856224*	*1.47333261*	
Int SD	*93.04000000*	*79.19450000*	*69.20470000*	*83.49590000*	*58.57780000*	*29.79550000*	
RelInt Mean	-0.00132628	0.00116107	0.00217309	0.00251464	0.00011454	-0.00008350	
RelInt RSD	*50.16323853*	*61.82211236*	*3.65644773*	*4.97415137*	*39.42235998*	*31.28685435*	
RelInt SD	*0.00066531*	*0.00071780*	*0.00007946*	*0.00012508*	*0.00004515*	*0.00002613*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L6,S17333			Sample Type: Calibration Sample
Measure Date: 2022-12-12 13:10:40	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28688.60000000	764.31400000	1842.56000000	5044.06000000	4122.25000000	18478.00000000	3835.06000000
Int RSD	*0.60147933*	*8.81947734*	*1.79950178*	*1.35760677*	*0.27340894*	*2.36227947*	*0.76773766*
Int SD	*172.55600000*	*67.40850000*	*33.15690000*	*68.47850000*	*11.27060000*	*436.50200000*	*29.44320000*
RelInt Mean	0.00002725	0.00356162	-0.00000949	0.00129873	0.00013866	0.13332400	0.00000670
RelInt RSD	*15.94825118*	*16.32231962*	*261.26689098*	*5.44042257*	*3.42451123*	*1.94403108*	*336.96995017*
RelInt SD	*0.00000435*	*0.00058134*	*0.00002479*	*0.00007066*	*0.00000475*	*0.00259186*	*0.00002258*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3874.98000000	30376.10000000	5284.77000000	68606.30000000	7426.24000000	4664.84000000	4158.20000000
Int RSD	*0.42247702*	*0.22416406*	*0.12409395*	*1.51454021*	*4.23347481*	*0.44351575*	*2.56964552*
Int SD	*16.37090000*	*68.09230000*	*6.55808000*	*1039.07000000*	*314.38800000*	*20.68930000*	*106.85100000*
RelInt Mean	0.00007212	0.00018627	0.00073861	0.49884100	0.05214070	-0.00001884	0.00206417
RelInt RSD	*57.02369216*	*4.89998282*	*4.04402865*	*1.46488961*	*4.27031091*	*72.68105251*	*6.75918166*
RelInt SD	*0.00004113*	*0.00000913*	*0.00002987*	*0.00730747*	*0.00222657*	*0.00001370*	*0.00013952*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	484678	4277.37000000	3950.55000000	2641.98000000	1978.31000000	1856.12000000	72.22850000
Int RSD	*0.23067892*	*1.24413600*	*0.70243637*	*1.74608816*	*1.14699921*	*1.29849363*	*8.33493704*
Int SD	*1118.05000000*	*53.21630000*	*27.75010000*	*46.13130000*	*22.69120000*	*24.10160000*	*6.02020000*
RelInt Mean	3.49673000	0.00022703	-0.00007923	-0.00003355	0.00003549	0.00009365	-0.00066270
RelInt RSD	*0.24775319*	*17.73410797*	*9.70709554*	*131.47354897*	*119.66232932*	*17.80354845*	*94.50114003*
RelInt SD	*0.00866326*	*0.00004026*	*0.00000769*	*0.00004411*	*0.00004247*	*0.00001667*	*0.00062626*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	43900.60000000	1755.68000000	6727.13000000	863878	23365000	137834	2814.20000000
Int RSD	*0.15906958*	*0.73507131*	*0.33121257*	*0.12103098*	*0.93369570*	*0.37444390*	*1.04722834*
Int SD	*69.83250000*	*12.90550000*	*22.28110000*	*1045.56000000*	*218158*	*516.11100000*	*29.47110000*
RelInt Mean	0.00053938	-0.00001628	0.00003560	---	---	---	0.00034315
RelInt RSD	*1.72334974*	*43.49633342*	*13.09088866*	---	---	---	*8.02584875*
RelInt SD	*0.00000930*	*0.00000708*	*0.00000466*	---	---	---	*0.00002754*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-52.95760000	678.53400000	537275	2308.69000000	3839.30000000	2116.47000000	
Int RSD	*138.79254347*	*7.36477465*	*0.33149877*	*1.17431964*	*0.83245123*	*0.91567090*	
Int SD	*73.50120000*	*49.97250000*	*1781.06000000*	*27.11140000*	*31.96030000*	*19.37990000*	
RelInt Mean	-0.00145601	0.00008621	0.61967500	0.00059910	0.00005279	-0.00009188	
RelInt RSD	*28.66127293*	*105.98896861*	*0.23406786*	*4.83026206*	*38.90225467*	*23.34728981*	
RelInt SD	*0.00041731*	*0.00009137*	*0.00145046*	*0.00002894*	*0.00002054*	*0.00002145*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L7,S17334			Sample Type: Calibration Sample
Measure Date: 2022-12-12 13:13:56	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	27930.80000000	622.05600000	1694.51000000	4419.67000000	3877.41000000	128.62400000	3615.80000000
Int RSD	*0.67848755*	*17.30214000*	*1.44170291*	*0.97717703*	*1.04857366*	*50.21473442*	*1.16885060*
Int SD	*189.50700000*	*107.62900000*	*24.42980000*	*43.18800000*	*40.65750000*	*64.58820000*	*42.26330000*
RelInt Mean	0.00002564	0.00339876	-0.00005100	0.00084920	0.00012799	0.00043754	-0.00002009
RelInt RSD	*20.68593184*	*16.44955807*	*40.80882425*	*5.24436615*	*26.92493398*	*166.87510571*	*161.45615074*
RelInt SD	*0.00000530*	*0.00055908*	*0.00002081*	*0.00004454*	*0.00003446*	*0.00073014*	*0.00003244*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3707.35000000	29584.40000000	5103.81000000	-238.78800000	96.03180000	4414.72000000	3034.82000000
Int RSD	*0.62493425*	*1.21212869*	*0.26290947*	*33.64222658*	*1.06562618*	*0.58774056*	*1.81017326*
Int SD	*23.16850000*	*358.60100000*	*13.41840000*	*80.33360000*	*1.02334000*	*25.94710000*	*54.93550000*
RelInt Mean	0.00011930	0.00017220	0.00078985	-0.00103902	-0.00123330	-0.00001708	0.00091231
RelInt RSD	*36.27494866*	*7.72612715*	*1.07598512*	*43.60156686*	*14.66901808*	*85.69646862*	*6.27230337*
RelInt SD	*0.00004327*	*0.00001330*	*0.00000850*	*0.00045303*	*0.00018091*	*0.00001464*	*0.00005722*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	2646.87000000	4033.32000000	3756.93000000	2489.13000000	1868.51000000	1702.19000000	-11.02620000
Int RSD	*4.55991416*	*0.92744439*	*0.44170905*	*0.34427169*	*0.68647211*	*1.12606113*	*462.46122871*
Int SD	*120.69500000*	*37.40680000*	*16.59470000*	*8.56937000*	*12.82680000*	*19.16770000*	*50.99190000*
RelInt Mean	0.00746959	0.00018622	-0.00005833	-0.00002385	0.00000262	0.00004365	-0.00115984
RelInt RSD	*5.51493455*	*38.70906074*	*54.70402987*	*39.60067086*	*1037.06787883*	*46.49034992*	*17.30885295*
RelInt SD	*0.00041194*	*0.00007208*	*0.00003191*	*0.00000944*	*0.00002715*	*0.00002029*	*0.00020076*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	31406.90000000	1652.14000000	6474.02000000	861585	24740000	142248	2630.23000000
Int RSD	*0.84772773*	*0.81950682*	*1.62554333*	*0.11510228*	*0.54640259*	*0.20009983*	*0.94856724*
Int SD	*266.24500000*	*13.53940000*	*105.23800000*	*991.70400000*	*135180*	*284.63800000*	*24.94950000*
RelInt Mean	0.00004010	-0.00004780	0.00003973	---	---	---	0.00028556
RelInt RSD	*5.75542277*	*36.55306596*	*8.79952682*	---	---	---	*8.32103599*
RelInt SD	*0.00000231*	*0.00001747*	*0.00000350*	---	---	---	*0.00002376*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-164.22200000	738.50500000	4253.34000000	243907	3668.52000000	98463.20000000	
Int RSD	*46.24946718*	*11.41978727*	*0.31707317*	*0.49115442*	*0.51406562*	*0.25674059*	
Int SD	*75.95180000*	*84.33570000*	*13.48620000*	*1197.96000000*	*18.85860000*	*252.79500000*	
RelInt Mean	-0.00172059	0.00051825	0.00043950	0.28215700	0.00007697	0.11232800	
RelInt RSD	*25.28865099*	*169.95959495*	*5.48183492*	*0.61358038*	*22.84924025*	*0.34334716*	
RelInt SD	*0.00043511*	*0.00088082*	*0.00002409*	*0.00173126*	*0.00001759*	*0.00038567*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L8,S17210			Sample Type: Calibration Sample
Measure Date: 2022-12-12 13:17:12	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28749.60000000	1399.49000000	2190.93000000	5088.87000000	4606.10000000	367038	4314.65000000
Int RSD	*0.82620280*	*12.22659683*	*0.15511267*	*0.17905036*	*1.11558151*	*1.22916428*	*0.50827298*
Int SD	*237.53000000*	*171.11000000*	*3.39841000*	*9.11164000*	*51.38480000*	*4511.50000000*	*21.93020000*
RelInt Mean	0.00002641	0.00198325	-0.00004026	0.00065755	0.00021534	2.60737000	0.00002843
RelInt RSD	*14.25992411*	*15.82155553*	*11.46847744*	*1.73480809*	*20.05605194*	*0.90805678*	*107.47872266*
RelInt SD	*0.00000377*	*0.00031378*	*0.00000462*	*0.00001141*	*0.00004319*	*0.02367640*	*0.00003056*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4532.74000000	30990.00000000	5829.68000000	328554	142033	5625.30000000	3177.10000000
Int RSD	*0.60361503*	*0.68311391*	*0.66930775*	*0.94382963*	*1.28101920*	*0.29290349*	*0.14923389*
Int SD	*27.36030000*	*211.69700000*	*39.01850000*	*3100.99000000*	*1819.47000000*	*16.47670000*	*4.74131000*
RelInt Mean	0.00013151	0.00019284	0.00058757	2.32844000	1.00588000	0.00039624	0.00053649
RelInt RSD	*17.68138753*	*1.17926500*	*10.01826178*	*0.90256567*	*0.87943095*	*4.11324983*	*0.58212377*
RelInt SD	*0.00002325*	*0.00000227*	*0.00005886*	*0.02101570*	*0.00884602*	*0.00001630*	*0.00000312*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	2216980	4748.06000000	4383.15000000	2922.36000000	2241.34000000	2098.49000000	21.32250000
Int RSD	*0.91476694*	*0.92698070*	*0.72228420*	*0.27830657*	*1.50414484*	*0.83622033*	*434.99589635*
Int SD	*20280.20000000*	*44.01360000*	*31.65880000*	*8.13312000*	*33.71300000*	*17.54800000*	*92.75200000*
RelInt Mean	15.69100000	0.00018840	-0.00006639	-0.00007732	0.00001445	0.00001592	-0.00036290
RelInt RSD	*0.84633867*	*28.44036795*	*40.40717773*	*40.54796824*	*168.15576721*	*110.66797285*	*44.61320981*
RelInt SD	*0.13279900*	*0.00005358*	*0.00002683*	*0.00003135*	*0.00002429*	*0.00001762*	*0.00016190*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	34979.40000000	2047.53000000	7865.04000000	820522	21965800	140802	3166.02000000
Int RSD	*0.79153159*	*0.50836862*	*1.22396453*	*0.25268792*	*0.54252975*	*0.58343560*	*1.59521418*
Int SD	*276.87300000*	*10.40900000*	*96.26530000*	*2073.36000000*	*119171*	*821.48900000*	*50.50480000*
RelInt Mean	0.00009872	-0.00002791	0.00004404	---	---	---	0.00044026
RelInt RSD	*7.66251421*	*50.47521808*	*4.70294265*	---	---	---	*11.70140758*
RelInt SD	*0.00000756*	*0.00001409*	*0.00000207*	---	---	---	*0.00005152*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-40.20850000	780.73000000	5109.01000000	2726.21000000	4313.09000000	2530.45000000	
Int RSD	*127.98114826*	*6.18764490*	*0.27204292*	*2.78914317*	*0.70443464*	*1.20274260*	
Int SD	*51.45930000*	*48.30880000*	*13.89870000*	*76.03790000*	*30.38290000*	*30.43480000*	
RelInt Mean	-0.00120293	0.00083669	0.00042488	0.00076901	0.00005956	-0.00007745	
RelInt RSD	*23.04406740*	*50.75798864*	*3.03596310*	*12.16120165*	*65.16555847*	*73.89493935*	
RelInt SD	*0.00027720*	*0.00042469*	*0.00001290*	*0.00009352*	*0.00003881*	*0.00005723*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICV,S17413			Sample Type: Control Sample
Measure Date: 2022-12-12 13:20:41	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	305081	1940.34000000	18571.90000000	78234.60000000	268212	181257	134384
Int RSD	*1.06247521*	*3.83031324*	*0.75020326*	*0.21213760*	*0.08420988*	*0.30948543*	*0.34126012*
Int SD	*3241.41000000*	*74.32110000*	*139.32700000*	*165.96500000*	*225.86100000*	*560.96400000*	*458.59900000*
RelInt Mean	0.01252600	0.00986526	0.01992890	0.08966850	0.32025700	1.32457000	0.15778800
RelInt RSD	*1.43380968*	*6.75266541*	*0.92412025*	*0.20439508*	*0.11002476*	*0.41817269*	*0.33616625*
RelInt SD	*0.00017960*	*0.00066617*	*0.00018417*	*0.00018328*	*0.00035236*	*0.00553899*	*0.00053043*
Conc Mean	0.49246200[mg/l]	0.68756000[mg/l]	1.03614000[mg/l]	1.03284000[mg/l]	0.96141800[mg/l]	101.59300000[mg/l]	0.96494300[mg/l]
Conc RSD	*1.43551178*	*10.59661702*	*0.92139093*	*0.20522830*	*0.11208028*	*0.41842351*	*0.33743340*
Conc SD	*0.00706935[mg/l]*	*0.07285810[mg/l]*	*0.00954690[mg/l]*	*0.00211968[mg/l]*	*0.00107756[mg/l]*	*0.42508900[mg/l]*	*0.00325604[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	112270	819309	255152	180188	74573.20000000	1343580	116238
Int RSD	*0.20489089*	*0.80544825*	*0.11506200*	*0.94213821*	*0.69637618*	*0.43779678*	*0.89130921*
Int SD	*230.03100000*	*6599.11000000*	*293.58300000*	*1697.62000000*	*519.31000000*	*5882.15000000*	*1036.04000000*
RelInt Mean	0.13094100	0.03591860	0.30348900	1.31614000	0.54237600	1.62494000	0.13779200
RelInt RSD	*0.18020330*	*1.14112465*	*0.15454036*	*0.74553999*	*0.50399907*	*0.40278718*	*0.85600035*
RelInt SD	*0.00023596*	*0.00040988*	*0.00046901*	*0.00981235*	*0.00273357*	*0.00654505*	*0.00117950*
Conc Mean	0.94948400[mg/l]	0.98847900[mg/l]	0.98237000[mg/l]	113.08800000[mg/l]	107.92700000[mg/l]	0.96803900[mg/l]	1.00536000[mg/l]
Conc RSD	*0.18037060*	*1.14648870*	*0.15476450*	*0.74515775*	*0.50312526*	*0.40272344*	*0.85579693*
Conc SD	*0.00171259[mg/l]*	*0.01133280[mg/l]*	*0.00152036[mg/l]*	*0.84268400[mg/l]*	*0.54300800[mg/l]*	*0.00389852[mg/l]*	*0.00860384[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1094110	83888.30000000	29700.30000000	18922.20000000	14843.10000000	218897	167700
Int RSD	*1.19499867*	*0.19854735*	*0.24133797*	*0.49843993*	*1.09459614*	*0.30511702*	*0.48609660*
Int SD	*13074.60000000*	*166.55800000*	*71.67810000*	*94.31580000*	*162.47200000*	*667.89200000*	*815.18400000*
RelInt Mean	7.96222000	0.09619640	0.03069200	0.01933000	0.01536070	0.26328700	1.22458000
RelInt RSD	*0.97218364*	*0.23466886*	*0.35211782*	*0.60542162*	*1.26709069*	*0.33048878*	*0.31577357*
RelInt SD	*0.07740740*	*0.00022574*	*0.00010807*	*0.00011703*	*0.00019463*	*0.00087013*	*0.00386690*
Conc Mean	102.04400000[mg/l]	0.93317200[mg/l]	0.97514000[mg/l]	1.00052000[mg/l]	0.93931000[mg/l]	4.77576000[mg/l]	1.02332000[mg/l]
Conc RSD	*0.97269903*	*0.23515708*	*0.35039276*	*0.60714029*	*1.26789878*	*0.33055053*	*0.31513016*
Conc SD	*0.99258100[mg/l]*	*0.00219442[mg/l]*	*0.00341682[mg/l]*	*0.00607456[mg/l]*	*0.01190950[mg/l]*	*0.01578630[mg/l]*	*0.00322479[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	2627210	18256.00000000	133633	828795	22036600	136880	198387
Int RSD	*1.13298899*	*0.57049737*	*1.05000262*	*0.05249127*	*0.34574027*	*0.23196449*	*0.21011760*
Int SD	*29766.00000000*	*104.15000000*	*1403.15000000*	*435.04500000*	*76189.40000000*	*317.51300000*	*416.84600000*
RelInt Mean	0.11782400	0.01960000	0.00576531	---	---	---	0.23732100
RelInt RSD	*1.46087385*	*0.67675510*	*1.28093893*	---	---	---	*0.20099738*
RelInt SD	*0.00172126*	*0.00013264*	*0.00007385*	---	---	---	*0.00047701*
Conc Mean	1.04959000[mg/l]	0.93968100[mg/l]	1.02179000[mg/l]	823505	21987200	136814	0.91673900[mg/l]
Conc RSD	*1.46123725*	*0.67231539*	*1.28945282*	---	---	---	*0.20136811*
Conc SD	*0.01533700[mg/l]*	*0.00631762[mg/l]*	*0.01317550[mg/l]*	*459.19200000*	*76035.50000000*	*309.56800000*	*0.00184602[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	37711.60000000	101307	276872	120119	221140	48890.20000000	
Int RSD	*1.76640874*	*0.91112263*	*0.08788502*	*0.63912620*	*0.16420639*	*0.21017709*	
Int SD	*666.14100000*	*923.03100000*	*243.32900000*	*767.71200000*	*363.12600000*	*102.75600000*	
RelInt Mean	0.27507600	0.73175300	0.33020900	0.14294800	0.26296600	0.05621320	
RelInt RSD	*1.74140601*	*0.97358262*	*0.09777807*	*0.65144388*	*0.15489189*	*0.19212036*	
RelInt SD	*0.00479019*	*0.00712422*	*0.00032287*	*0.00093123*	*0.00040731*	*0.00010800*	
Conc Mean	1.02488000[mg/l]	1.23586000[mg/l]	5.30269000[mg/l]	5.03394000[mg/l]	0.98403900[mg/l]	5.00922000[mg/l]	
Conc RSD	*1.73440793*	*0.97497289*	*0.10177740*	*0.65982113*	*0.15914918*	*0.19178694*	
Conc SD	*0.01777560[mg/l]*	*0.01204930[mg/l]*	*0.00539694[mg/l]*	*0.03321500[mg/l]*	*0.00156609[mg/l]*	*0.00960703[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973016	File:	met06_master	Time:	12-DEC-2022 13:32
Cal:	482498973001	Caldate:	12-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	24177000	-2.11
Yttrium	A	853570	848303	-0.62
Yttrium	R	142091	139896	-1.54

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICB,1			Sample Type: Control Sample
Measure Date: 2022-12-12 13:32:14	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28088.60000000	618.38700000	1665.90000000	4113.53000000	3918.60000000	33.34430000	3660.20000000
Int RSD	*0.28309848*	*8.94113233*	*1.42227625*	*0.32643010*	*0.66645230*	*379.42017076*	*0.28170045*
Int SD	*79.51840000*	*55.29080000*	*23.69370000*	*13.42780000*	*26.11560000*	*126.51500000*	*10.31080000*
RelInt Mean	0.00003138	0.00318280	-0.00008870	0.00046454	0.00015246	-0.00007568	0.00000172
RelInt RSD	*19.91866447*	*14.02654895*	*50.90590964*	*3.45551260*	*32.19481959*	*676.06763411*	*640.55987089*
RelInt SD	*0.00000625*	*0.00044644*	*0.00004515*	*0.00001605*	*0.00004908*	*0.00051167*	*0.00001103*
Conc Mean	<0.00061217[mg/l]	<-0.04329000[mg/l]	<-0.00068604[mg/l]	0.00169735[mg/l]	<-0.00000992[mg/l]	<-0.01311210[mg/l]	<-0.00006653[mg/l]
Conc RSD	*40.18811891*	*112.78840379*	*341.20804156*	*10.93221787*	*1491.29799857*	*299.32276294*	*101.61079152*
Conc SD	*0.00024602[mg/l]*	*0.04882610[mg/l]*	*0.00234081[mg/l]*	*0.00018556[mg/l]*	*0.00014797[mg/l]*	*0.03924750[mg/l]*	*0.00006760[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3681.47000000	29734.80000000	5864.07000000	-301.85800000	66.65090000	4525.90000000	2508.54000000
Int RSD	*0.86425531*	*0.40746869*	*0.28906203*	*19.52447840*	*23.12031796*	*0.29194414*	*1.35152718*
Int SD	*31.81730000*	*121.16000000*	*16.95080000*	*58.93620000*	*15.40990000*	*13.21310000*	*33.90360000*
RelInt Mean	0.00004890	0.00018068	0.00165179	-0.00144331	-0.00129655	0.00007668	0.00027077
RelInt RSD	*43.29099583*	*1.65570277*	*0.78328964*	*26.57405547*	*5.33620763*	*22.30932654*	*12.50311149*
RelInt SD	*0.00002117*	*0.00000299*	*0.00001294*	*0.00038355*	*0.00006919*	*0.00001711*	*0.00003385*
Conc Mean	0.00027075[mg/l]	<0.00033727[mg/l]	0.00419290[mg/l]	<-0.03571670[mg/l]	<-0.03381170[mg/l]	<0.00004568[mg/l]	0.00194503[mg/l]
Conc RSD	*56.70075678*	*24.52616879*	*1.00010732*	*92.19804741*	*40.63475069*	*22.30939986*	*12.70006118*
Conc SD	*0.00015352[mg/l]*	*0.00008272[mg/l]*	*0.00004193[mg/l]*	*0.03293010[mg/l]*	*0.01373930[mg/l]*	*0.00001019[mg/l]*	*0.00024702[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	2977.41000000	4101.43000000	3742.26000000	2496.61000000	1888.97000000	1712.62000000	31.72280000
Int RSD	*2.27122566*	*0.63670232*	*1.16838488*	*0.59074104*	*0.77729662*	*2.34136002*	*76.45762669*
Int SD	*67.62370000*	*26.11390000*	*43.72400000*	*14.74850000*	*14.68290000*	*40.09860000*	*24.25450000*
RelInt Mean	0.01038340	0.00024667	-0.00012796	-0.00004549	0.00004077	0.00004176	-0.00065343
RelInt RSD	*3.73756188*	*7.10272834*	*22.70691205*	*72.93375713*	*64.57926596*	*116.28605366*	*119.31016646*
RelInt SD	*0.00038809*	*0.00001752*	*0.00002906*	*0.00003318*	*0.00002633*	*0.00004856*	*0.00077961*
Conc Mean	0.06537200[mg/l]	<0.00041344[mg/l]	<-0.00174793[mg/l]	<0.00101887[mg/l]	<0.00203070[mg/l]	<0.00113966[mg/l]	<0.00016857[mg/l]
Conc RSD	*7.61419262*	*41.19559302*	*52.99708798*	*168.90673000*	*79.32634067*	*77.27927628*	*386.21489506*
Conc SD	*0.00497755[mg/l]*	*0.00017032[mg/l]*	*0.00092635[mg/l]*	*0.00172094[mg/l]*	*0.00161088[mg/l]*	*0.00088072[mg/l]*	*0.00065103[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	31236.40000000	1637.12000000	6549.98000000	848303	24177000	139896	2683.66000000
Int RSD	*0.95063772*	*1.26774458*	*1.45010977*	*0.08203142*	*0.58119287*	*0.65037528*	*0.22633568*
Int SD	*296.94500000*	*20.75450000*	*94.98190000*	*695.87500000*	*140515*	*909.84900000*	*6.07408000*
RelInt Mean	0.00003231	-0.00007081	0.00004192	---	---	---	0.00031569
RelInt RSD	*15.77075564*	*32.32102988*	*6.08177871*	---	---	---	*5.61123641*
RelInt SD	*0.00000510*	*0.00002289*	*0.00000255*	---	---	---	*0.00001771*
Conc Mean	0.00034596[mg/l]	<-0.00024695[mg/l]	<0.00070806[mg/l]	843509	24130700	139832	0.00069032[mg/l]
Conc RSD	*13.11986033*	*445.38209855*	*64.25514787*	---	---	---	*9.91298201*
Conc SD	*0.00004539[mg/l]*	*0.00109988[mg/l]*	*0.00045496[mg/l]*	*622.02200000*	*140319*	*898.11800000*	*0.00006843[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-41.86720000	789.24000000	4644.09000000	2393.62000000	3717.07000000	1988.85000000	
Int RSD	*124.43177475*	*9.72815620*	*0.49811481*	*4.10261445*	*0.38864751*	*2.67456570*	
Int SD	*52.09610000*	*76.77850000*	*23.13290000*	*98.20100000*	*14.44630000*	*53.19310000*	
RelInt Mean	-0.00098521	0.00076848	0.00086079	0.00081029	0.00007759	-0.00012038	
RelInt RSD	*24.22331122*	*89.42923545*	*3.02260012*	*14.37097445*	*50.55693755*	*49.36141756*	
RelInt SD	*0.00023865*	*0.00068724*	*0.00002602*	*0.00011645*	*0.00003922*	*0.00005942*	
Conc Mean	<0.00046062[mg/l]	<0.00001379[mg/l]	0.00654292[mg/l]	<-0.03658540[mg/l]	<0.00007272[mg/l]	<-0.00100360[mg/l]	
Conc RSD	*192.26113329*	*8424.63220633*	*6.49602930*	*11.35439274*	*197.04441627*	*526.57233958*	
Conc SD	*0.00088560[mg/l]*	*0.00116190[mg/l]*	*0.00042503[mg/l]*	*0.00415405[mg/l]*	*0.00014328[mg/l]*	*0.00528468[mg/l]*	

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973017	File:	met06_master	Time:	12-DEC-2022 13:35
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17207, S13369 (100X)

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.005611]	0.003333	mg/l	!a-

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Iron	A	160.0	144.3	mg/l	90	
Aluminum	R	400.0	416.9	mg/l	104	
Calcium	R	400.0	417.6	mg/l	104	
Magnesium	R	400.0	423.6	mg/l	106	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	21219600	-14.08
Yttrium	A	853570	786955	-7.80
Yttrium	R	142091	137045	-3.55

!=warning -=low bias a=ICSA

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICSA,S17207			Sample Type: Control Sample
Measure Date: 2022-12-12 13:35:29	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	30530.80000000	526484	7709.14000000	7131.76000000	5654.22000000	745649	5403.17000000
Int RSD	*0.66264887*	*0.36784404*	*0.75121739*	*1.41722380*	*0.56017099*	*0.40749870*	*0.57748877*
Int SD	*202.31200000*	*1936.64000000*	*57.91240000*	*101.07300000*	*31.67330000*	*3038.51000000*	*31.20270000*
RelInt Mean	0.00001177	3.81537000	-0.00010900	0.00111231	0.00034419	5.44457000	0.00022922
RelInt RSD	*41.28032414*	*0.04272666*	*28.85983743*	*11.99836377*	*10.07452344*	*0.30708210*	*14.95009074*
RelInt SD	*0.00000486*	*0.00163018*	*0.00003146*	*0.00013346*	*0.00003468*	*0.01671930*	*0.00003427*
Conc Mean	<-0.00015952[mg/l]	>416.88900000[mg/l]	<-0.00173326[mg/l]	0.00918521[mg/l]	0.00058931[mg/l]	>417.61400000[mg/l]	0.00132485[mg/l]
Conc RSD	*119.92803365*	*0.04282651*	*94.11167396*	*16.79558769*	*17.15019743*	*0.30697486*	*15.85085104*
Conc SD	*0.00019131[mg/l]*	*0.17853900[mg/l]*	*0.00163120[mg/l]*	*0.00154271[mg/l]*	*0.00010107[mg/l]*	*1.28197000[mg/l]*	*0.00021000[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	5372.29000000	34549.40000000	34765300	-211.57700000	292699	10524.00000000	11612.90000000
Int RSD	*1.72412882*	*0.82652376*	*0.58801161*	*14.25698445*	*0.25591888*	*1.11291334*	*0.42255595*
Int SD	*92.62520000*	*285.55900000*	*204424*	*30.16450000*	*749.07200000*	*117.12300000*	*49.07100000*
RelInt Mean	-0.00075072	0.00022292	44.53600000	-0.00073981	2.13181000	0.00267855	-0.00052149
RelInt RSD	*10.35611194*	*1.35701789*	*0.84982486*	*28.16236601*	*0.31947641*	*7.40124321*	*31.17264893*
RelInt SD	*0.00007775*	*0.00000303*	*0.37847800*	*0.00020835*	*0.00681063*	*0.00019825*	*0.00016256*
Conc Mean	<-0.00552798[mg/l]	0.00150498[mg/l]	>144.32900000[mg/l]	0.02468370[mg/l]	>423.55200000[mg/l]	0.00159572[mg/l]	<-0.00383564[mg/l]
Conc RSD	*10.19898770*	*5.55793432*	*0.84990542*	*72.46887622*	*0.31934450*	*7.40098514*	*30.92365290*
Conc SD	*0.00056380[mg/l]*	*0.00008365[mg/l]*	*1.22666000[mg/l]*	*0.01788800[mg/l]*	*1.35259000[mg/l]*	*0.00011810[mg/l]*	*0.00118612[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	3802.75000000	5718.42000000	12422.00000000	13872.10000000	9211.30000000	7845.90000000	2364.23000000
Int RSD	*4.15507199*	*0.73407340*	*0.06623893*	*0.28322676*	*0.24094427*	*0.35511159*	*1.98206604*
Int SD	*158.00700000*	*41.97740000*	*8.22820000*	*39.28950000*	*22.19410000*	*27.86170000*	*46.86060000*
RelInt Mean	0.01721180	0.00019199	0.00237633	0.00032005	-0.00032906	0.00005201	0.01613090
RelInt RSD	*3.37672992*	*21.94601718*	*3.92636124*	*20.96263084*	*32.62090427*	*95.84655200*	*4.02337129*
RelInt SD	*0.00058120*	*0.00004213*	*0.00009330*	*0.00006709*	*0.00010734*	*0.00004985*	*0.00064901*
Conc Mean	0.15294400[mg/l]	<-0.00011817[mg/l]	<-0.00561134[mg/l]	0.02001480[mg/l]	<-0.02059590[mg/l]	<0.00132561[mg/l]	0.01418460[mg/l]
Conc RSD	*4.87314311*	*346.63055896*	*52.07846967*	*17.37529228*	*31.88615210*	*68.20588257*	*3.82060122*
Conc SD	*0.00745318[mg/l]*	*0.00040960[mg/l]*	*0.00292230[mg/l]*	*0.00347763[mg/l]*	*0.00656724[mg/l]*	*0.00090414[mg/l]*	*0.00054194[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	39555.60000000	8029.16000000	9609.63000000	786955	21219600	137045	13642.20000000
Int RSD	*0.74776011*	*0.40717584*	*1.04810487*	*0.32297145*	*0.51687119*	*0.30042249*	*0.51108326*
Int SD	*295.78100000*	*32.69280000*	*100.71900000*	*2541.64000000*	*109678*	*411.71400000*	*69.72300000*
RelInt Mean	0.00019957	-0.00010340	0.00002723	---	---	---	0.00096361
RelInt RSD	*5.16448110*	*36.39768672*	*21.50334023*	---	---	---	*25.40947795*
RelInt SD	*0.00001031*	*0.00003764*	*0.00000586*	---	---	---	*0.00024485*
Conc Mean	0.00183581[mg/l]	<-0.00180144[mg/l]	<-0.00191134[mg/l]	780392	21161200	136922	0.00319882[mg/l]
Conc RSD	*5.00106220*	*100.25701661*	*54.68728745*	---	---	---	*29.59472556*
Conc SD	*0.00009181[mg/l]*	*0.00180607[mg/l]*	*0.00104526[mg/l]*	*2541.30000000*	*109456*	*425.09100000*	*0.00094668[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-25.72010000	752.16000000	7407.08000000	6269.87000000	5620.81000000	7012.65000000	
Int RSD	*490.73292872*	*11.23396618*	*0.54651766*	*1.72343286*	*0.60188300*	*0.44888879*	
Int SD	*126.21700000*	*84.49740000*	*40.48100000*	*108.05700000*	*33.83070000*	*31.47900000*	
RelInt Mean	-0.00112065	0.00114498	0.00127890	0.00045305	-0.00048136	-0.00026993	
RelInt RSD	*33.24017311*	*18.47298643*	*5.95298303*	*47.88366796*	*6.48646852*	*11.03882103*	
RelInt SD	*0.00037251*	*0.00021151*	*0.00007613*	*0.00021694*	*0.00003122*	*0.00002980*	
Conc Mean	<-0.00004198[mg/l]	<0.00065034[mg/l]	0.01342520[mg/l]	<-0.04932960[mg/l]	<-0.00202357[mg/l]	<-0.01430480[mg/l]	
Conc RSD	*3293.11959062*	*54.98648395*	*9.35166701*	*15.68804531*	*5.73461753*	*18.52622896*	
Conc SD	*0.00138231[mg/l]*	*0.00035760[mg/l]*	*0.00125548[mg/l]*	*0.00773885[mg/l]*	*0.00011604[mg/l]*	*0.00265014[mg/l]*	

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973018	File:	met06_master	Time:	12-DEC-2022 13:38
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17208, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	1.017	mg/l	2	20	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	21269700	-13.88
Yttrium	A	853570	783570	-8.20
Yttrium	R	142091	137508	-3.23

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICSAB,S17208			Sample Type: Control Sample
Measure Date: 2022-12-12 13:38:46	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	629191	552957	8018.19000000	7405.25000000	141436	784433	68693.30000000
Int RSD	*0.80403725*	*0.67669095*	*0.21995114*	*0.42177509*	*0.41055318*	*0.43985401*	*0.29611622*
Int SD	*5058.93000000*	*3741.81000000*	*17.63610000*	*31.23350000*	*580.67000000*	*3450.36000000*	*203.41200000*
RelInt Mean	0.02815730	3.99218000	-0.00008636	0.00129555	0.17486500	5.70594000	0.08134340
RelInt RSD	*1.33801892*	*0.09167097*	*11.90812541*	*2.76924858*	*0.45542161*	*0.18703316*	*0.59040316*
RelInt SD	*0.00037675*	*0.00365967*	*0.00001028*	*0.00003588*	*0.00079637*	*0.01067200*	*0.00048025*
Conc Mean	1.10779000[mg/l]	>436.22700000[mg/l]	<-0.00102976[mg/l]	0.01130340[mg/l]	0.52676400[mg/l]	>437.66200000[mg/l]	0.49834100[mg/l]
Conc RSD	*1.33875554*	*0.09182261*	*51.96657474*	*3.66933843*	*0.45460206*	*0.18705576*	*0.59053540*
Conc SD	*0.01483060[mg/l]*	*0.40055500[mg/l]*	*0.00053513[mg/l]*	*0.00041476[mg/l]*	*0.00239468[mg/l]*	*0.81867200[mg/l]*	*0.00294288[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	62519.50000000	472518	35793000	-220.08000000	308124	691165	12023.30000000
Int RSD	*0.12135414*	*0.77405940*	*0.52980471*	*18.22105598*	*0.55832068*	*0.06559953*	*1.19412308*
Int SD	*75.87000000*	*3657.57000000*	*189633*	*40.10090000*	*1720.32000000*	*453.40100000*	*143.57300000*
RelInt Mean	0.07264220	0.02080060	46.06060000	-0.00079786	2.23601000	0.87846800	-0.00051664
RelInt RSD	*0.43792727*	*1.28985222*	*0.50125053*	*53.80329882*	*0.16001673*	*0.26098276*	*44.01567046*
RelInt SD	*0.00031812*	*0.00026830*	*0.23087900*	*0.00042928*	*0.00357799*	*0.00229265*	*0.00022740*
Conc Mean	0.52670700[mg/l]	0.57047100[mg/l]	>149.26900000[mg/l]	<0.01969970[mg/l]	>444.24500000[mg/l]	0.52333700[mg/l]	<-0.00380029[mg/l]
Conc RSD	*0.43805569*	*1.30047277*	*0.50092986*	*187.09015873*	*0.15984265*	*0.26090263*	*43.66087851*
Conc SD	*0.00230727[mg/l]*	*0.00741882[mg/l]*	*0.74773300[mg/l]*	*0.03685620[mg/l]*	*0.71009300[mg/l]*	*0.00136540[mg/l]*	*0.00165924[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	4453.19000000	84115.00000000	38017.40000000	14270.50000000	9462.25000000	8091.15000000	2283.29000000
Int RSD	*1.87967727*	*0.50096059*	*0.20830541*	*0.80994359*	*0.41649925*	*0.48069187*	*3.42028389*
Int SD	*83.70560000*	*421.38300000*	*79.19230000*	*115.58300000*	*39.41020000*	*38.89350000*	*78.09500000*
RelInt Mean	0.02198730	0.10076600	0.03475510	0.00020518	-0.00050379	0.00000502	0.01609870
RelInt RSD	*2.37368390*	*0.82914674*	*0.08653406*	*50.48688007*	*10.75511622*	*312.24383664*	*4.32087063*
RelInt SD	*0.00052191*	*0.00083550*	*0.00003008*	*0.00010359*	*0.00005418*	*0.00001567*	*0.00069560*
Conc Mean	0.21418800[mg/l]	0.97760000[mg/l]	1.01698000[mg/l]	0.01093410[mg/l]	<-0.03128580[mg/l]	<0.00047331[mg/l]	0.01415760[mg/l]
Conc RSD	*3.12520309*	*0.83069251*	*0.08792739*	*49.02214174*	*10.59563764*	*60.05134056*	*4.10297649*
Conc SD	*0.00669381[mg/l]*	*0.00812085[mg/l]*	*0.00089420[mg/l]*	*0.00536013[mg/l]*	*0.00331493[mg/l]*	*0.00028423[mg/l]*	*0.00058088[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	40276.30000000	8226.20000000	75276.20000000	783570	21269700	137508	202452
Int RSD	*0.23519117*	*0.55761591*	*0.97080219*	*0.25554960*	*0.51979577*	*0.65025380*	*0.20884951*
Int SD	*94.72630000*	*45.87060000*	*730.78300000*	*2002.41000000*	*110559*	*894.15100000*	*422.82000000*
RelInt Mean	0.00021258	-0.00022711	0.00310810	---	---	---	0.24338300
RelInt RSD	*4.76740631*	*66.82077769*	*1.60180174*	---	---	---	*0.05085770*
RelInt SD	*0.00001013*	*0.00015176*	*0.00004979*	---	---	---	*0.00012378*
Conc Mean	0.00195174[mg/l]	<-0.00774632[mg/l]	0.54794400[mg/l]	776856	21210400	137452	0.94039300[mg/l]
Conc RSD	*4.62538043*	*94.11101013*	*1.62152702*	---	---	---	*0.05069179*
Conc SD	*0.00009028[mg/l]*	*0.00729014[mg/l]*	*0.00888506[mg/l]*	*2013.82000000*	*110509*	*849.77400000*	*0.00047670[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	19139.70000000	723.75200000	7655.51000000	6613.58000000	234894	7285.58000000	
Int RSD	*1.66042832*	*10.27484553*	*1.11400939*	*2.08812776*	*0.39268010*	*0.54887051*	
Int SD	*317.80100000*	*74.36440000*	*85.28310000*	*138.10000000*	*922.38200000*	*39.98840000*	
RelInt Mean	0.13850700	0.00102000	0.00134161	0.00067206	0.29393800	-0.00025088	
RelInt RSD	*1.93134643*	*33.00441176*	*8.11204448*	*23.16360222*	*0.22938205*	*14.04910714*	
RelInt SD	*0.00267505*	*0.00033665*	*0.00010883*	*0.00015567*	*0.00067424*	*0.00003525*	
Conc Mean	0.51809500[mg/l]	<0.00043903[mg/l]	0.01443710[mg/l]	<-0.04151660[mg/l]	1.10418000[mg/l]	<-0.01261040[mg/l]	
Conc RSD	*1.91584748*	*129.63993021*	*11.92788025*	*13.37638439*	*0.22933036*	*24.85852947*	
Conc SD	*0.00992591[mg/l]*	*0.00056915[mg/l]*	*0.00172204[mg/l]*	*0.00555342[mg/l]*	*0.00253222[mg/l]*	*0.00313476[mg/l]*	

ENTHALPY CONTINUING CALIBRATION FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973028	File:	met06_master	Time:	12-DEC-2022 14:14
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0255	0.0306	1.000	0.9707	mg/l	-3	10	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	22052700	-10.71
Yttrium	A	853570	835941	-2.07
Yttrium	R	142091	139683	-1.69

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: CCV,S17413	Sample Type: Control Sample		
Measure Date: 2022-12-12 14:14:57	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	302749	2026.75000000	18643.70000000	77922.40000000	270005	185013	135499
Int RSD	*1.54400510*	*8.59676822*	*0.71386581*	*0.28000806*	*0.66385808*	*0.69090280*	*0.56300194*
Int SD	*4674.46000000*	*174.23500000*	*133.09100000*	*218.18900000*	*1792.45000000*	*1278.26000000*	*762.86200000*
RelInt Mean	0.01240190	0.01012220	0.01978420	0.08846960	0.31958800	1.32471000	0.15767400
RelInt RSD	*1.41741185*	*9.14211337*	*1.13741774*	*0.61024804*	*0.22184563*	*0.46190487*	*0.17435214*
RelInt SD	*0.00017579*	*0.00092538*	*0.00022503*	*0.00053988*	*0.00070899*	*0.00611890*	*0.00027491*
Conc Mean	0.48757700[mg/l]	0.71565900[mg/l]	1.02865000[mg/l]	1.01898000[mg/l]	0.95942200[mg/l]	101.60300000[mg/l]	0.96426000[mg/l]
Conc RSD	*1.41945375*	*14.14193072*	*1.13368979*	*0.61228778*	*0.22130095*	*0.46186038*	*0.17417502*
Conc SD	*0.00692093[mg/l]*	*0.10120800[mg/l]*	*0.01166170[mg/l]*	*0.00623909[mg/l]*	*0.00212321[mg/l]*	*0.46926400[mg/l]*	*0.00167950[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	113005	809315	264082	178402	75992.80000000	1354710	116590
Int RSD	*0.27411442*	*1.36795932*	*0.16037064*	*0.42949911*	*0.32996415*	*0.16094736*	*0.80126426*
Int SD	*309.76300000*	*11071.10000000*	*423.51000000*	*766.23500000*	*250.74900000*	*2180.37000000*	*934.19400000*
RelInt Mean	0.13061200	0.03542170	0.31156300	1.27710000	0.54181400	1.62434000	0.13700100
RelInt RSD	*0.17332481*	*1.12297264*	*0.29836438*	*0.42960066*	*0.29169604*	*0.62333009*	*0.37604105*
RelInt SD	*0.00022638*	*0.00039778*	*0.00092959*	*0.00548643*	*0.00158045*	*0.01012500*	*0.00051518*
Conc Mean	0.94709500[mg/l]	0.97473800[mg/l]	1.00854000[mg/l]	109.73600000[mg/l]	107.81600000[mg/l]	0.96767900[mg/l]	0.99959000[mg/l]
Conc RSD	*0.17319593*	*1.12828268*	*0.29878636*	*0.42879183*	*0.29086221*	*0.62349705*	*0.37630428*
Conc SD	*0.00164033[mg/l]*	*0.01099780[mg/l]*	*0.00301338[mg/l]*	*0.47053900[mg/l]*	*0.31359600[mg/l]*	*0.00603345[mg/l]*	*0.00376150[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1070420	84687.60000000	29859.20000000	19067.90000000	14914.00000000	220656	171492
Int RSD	*0.56512864*	*0.49297654*	*0.70658959*	*0.53459479*	*0.26640003*	*0.44071813*	*1.03496373*
Int SD	*6049.25000000*	*417.49000000*	*210.98200000*	*101.93600000*	*39.73090000*	*972.47100000*	*1774.88000000*
RelInt Mean	7.63515000	0.09628030	0.03055100	0.01928910	0.01525570	0.26310400	1.22754000
RelInt RSD	*0.56831104*	*0.19902825*	*1.20384603*	*0.43983804*	*0.67859882*	*0.04301151*	*0.79547225*
RelInt SD	*0.04339140*	*0.00019162*	*0.00036779*	*0.00008484*	*0.00010353*	*0.00011317*	*0.00976474*
Conc Mean	97.84980000[mg/l]	0.93398900[mg/l]	0.97066500[mg/l]	0.99841200[mg/l]	0.93288900[mg/l]	4.77245000[mg/l]	1.02579000[mg/l]
Conc RSD	*0.56872165*	*0.19942954*	*1.19899244*	*0.44129478*	*0.67879780*	*0.04294838*	*0.79520857*
Conc SD	*0.55649300[mg/l]*	*0.00186265[mg/l]*	*0.01163820[mg/l]*	*0.00440594[mg/l]*	*0.00633243[mg/l]*	*0.00204969[mg/l]*	*0.00815717[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	2610640	18304.80000000	132615	835941	22052700	139683	199614
Int RSD	*1.19020623*	*1.07444495*	*1.59215775*	*0.47157156*	*0.35050991*	*0.23912788*	*0.41656497*
Int SD	*31072.00000000*	*196.67500000*	*2111.44000000*	*3942.06000000*	*77296.90000000*	*334.02100000*	*831.52200000*
RelInt Mean	0.11696500	0.01942170	0.00571579	---	---	---	0.23671600
RelInt RSD	*0.97342795*	*0.77405171*	*1.32353008*	---	---	---	*0.16449796*
RelInt SD	*0.00113857*	*0.00015033*	*0.00007565*	---	---	---	*0.00038939*
Conc Mean	1.04193000[mg/l]	0.93114600[mg/l]	1.01296000[mg/l]	830618	22002700	139583	0.91440100[mg/l]
Conc RSD	*0.97325156*	*0.77286484*	*1.33281670*	---	---	---	*0.16465314*
Conc SD	*0.01014060[mg/l]*	*0.00719650[mg/l]*	*0.01350090[mg/l]*	*3951.91000000*	*77248.40000000*	*393.05500000*	*0.00150559[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	38759.60000000	100161	278166	120195	222731	49122.90000000	
Int RSD	*0.78535898*	*1.51470133*	*0.64595242*	*0.76170639*	*0.50979433*	*0.31458444*	
Int SD	*304.40200000*	*1517.14000000*	*1796.82000000*	*915.53300000*	*1135.47000000*	*154.53300000*	
RelInt Mean	0.27698100	0.70832900	0.32898500	0.14180400	0.26250300	0.05595740	
RelInt RSD	*0.82430564*	*1.27798241*	*0.20629512*	*0.28832402*	*0.14328712*	*0.61095405*	
RelInt SD	*0.00228317*	*0.00905232*	*0.00067868*	*0.00040886*	*0.00037613*	*0.00034187*	
Conc Mean	1.03195000[mg/l]	1.19626000[mg/l]	5.28307000[mg/l]	4.99314000[mg/l]	0.98232900[mg/l]	4.98648000[mg/l]	
Conc RSD	*0.82073647*	*1.27961313*	*0.20621722*	*0.29213080*	*0.14253575*	*0.60969662*	
Conc SD	*0.00846959[mg/l]*	*0.01530750[mg/l]*	*0.01089460[mg/l]*	*0.01458650[mg/l]*	*0.00140017[mg/l]*	*0.03040240[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973029	File:	met06_master	Time:	12-DEC-2022 14:18
Cal:	482498973001	Caldate:	12-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	24186600	-2.07
Yttrium	A	853570	844086	-1.11
Yttrium	R	142091	141324	-0.54

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: CCB,1	Sample Type: Control Sample		
Measure Date: 2022-12-12 14:18:11	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28317.80000000	596.21100000	1749.77000000	4213.81000000	4008.15000000	46.03400000	3739.37000000
Int RSD	*1.07286936*	*5.26432756*	*3.47366797*	*0.92583434*	*1.35900104*	*100.57370639*	*1.52932713*
Int SD	*303.81300000*	*31.38650000*	*60.78120000*	*39.01290000*	*54.47080000*	*46.29810000*	*57.18720000*
RelInt Mean	0.00002508	0.00307709	-0.00004108	0.00054031	0.00021971	0.00012943	0.00004856
RelInt RSD	*26.30853083*	*14.88594744*	*111.18167700*	*15.09819381*	*14.41715558*	*208.10952808*	*92.47513334*
RelInt SD	*0.00000660*	*0.00045805*	*0.00004567*	*0.00008158*	*0.00003168*	*0.00026935*	*0.00004491*
Conc Mean	<0.00036435[mg/l]	<-0.05485190[mg/l]	<0.00178206[mg/l]	0.00257323[mg/l]	<0.00015998[mg/l]	<0.00262080[mg/l]	<0.00021821[mg/l]
Conc RSD	*71.28996844*	*91.33010889*	*132.85804069*	*36.64565546*	*62.31392870*	*788.32417582*	*126.11660541*
Conc SD	*0.00025975[mg/l]*	*0.05009630[mg/l]*	*0.00236761[mg/l]*	*0.00094298[mg/l]*	*0.00009969[mg/l]*	*0.02066040[mg/l]*	*0.00027519[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3757.78000000	30242.20000000	8517.11000000	-241.85400000	146.78000000	4733.07000000	3571.40000000
Int RSD	*1.13316107*	*0.77754264*	*2.36651869*	*16.10967774*	*40.49904619*	*0.64838466*	*5.94973960*
Int SD	*42.58170000*	*235.14600000*	*201.55900000*	*38.96190000*	*59.44450000*	*30.68850000*	*212.48900000*
RelInt Mean	0.00011524	0.00018815	0.00479669	-0.00084859	-0.00055514	0.00029570	0.00149951
RelInt RSD	*13.32069349*	*2.96459170*	*6.32661273*	*40.67992548*	*55.76261081*	*7.42273341*	*18.88370201*
RelInt SD	*0.00001535*	*0.00000558*	*0.00030347*	*0.00034521*	*0.00030956*	*0.00002195*	*0.00028316*
Conc Mean	0.00075186[mg/l]	0.00054366[mg/l]	0.01438470[mg/l]	<0.01534430[mg/l]	<0.11341500[mg/l]	0.00017616[mg/l]	0.01091050[mg/l]
Conc RSD	*14.80646024*	*28.36914916*	*6.83683358*	*193.15380956*	*54.20041441*	*7.42259790*	*18.93680400*
Conc SD	*0.00011132[mg/l]*	*0.00015423[mg/l]*	*0.00098346[mg/l]*	*0.02963810[mg/l]*	*0.06147140[mg/l]*	*0.00001308[mg/l]*	*0.00206610[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	3531.18000000	4144.80000000	3837.82000000	2606.72000000	1995.83000000	1826.02000000	-3.81403000
Int RSD	*2.59644368*	*1.14278614*	*0.28343174*	*0.34837037*	*1.22994443*	*1.12887592*	*1666.06712585*
Int SD	*91.68510000*	*47.36620000*	*10.87760000*	*9.08104000*	*24.54760000*	*20.61350000*	*63.54430000*
RelInt Mean	0.01329950	0.00023873	-0.00005856	0.00005265	0.00010458	0.00016275	-0.00095891
RelInt RSD	*1.67361931*	*14.01389040*	*17.09568962*	*7.75916925*	*44.75206533*	*15.33569686*	*82.98955795*
RelInt SD	*0.00022258*	*0.00003345*	*0.00001001*	*0.00000408*	*0.00004680*	*0.00002496*	*0.00079580*
Conc Mean	0.10277000[mg/l]	<0.00033620[mg/l]	<0.00045450[mg/l]	0.00610685[mg/l]	0.00593479[mg/l]	0.00333419[mg/l]	<-0.00008653[mg/l]
Conc RSD	*2.77770750*	*96.73559348*	*69.35267754*	*3.47953528*	*48.24871647*	*13.57721066*	*768.00422521*
Conc SD	*0.00285465[mg/l]*	*0.00032523[mg/l]*	*0.00031521[mg/l]*	*0.00021249[mg/l]*	*0.00286346[mg/l]*	*0.00045269[mg/l]*	*0.00066454[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	35204.20000000	1716.19000000	6673.46000000	844086	24186600	141324	2694.07000000
Int RSD	*0.79912056*	*0.33525600*	*1.52262844*	*0.43878112*	*0.26546393*	*0.78529478*	*1.15180749*
Int SD	*281.32400000*	*5.75363000*	*101.61200000*	*3703.69000000*	*64206.70000000*	*1109.81000000*	*31.03050000*
RelInt Mean	0.00017953	-0.00002496	0.00004044	---	---	---	0.00029728
RelInt RSD	*1.68374116*	*65.95639823*	*11.50749059*	---	---	---	*19.74889162*
RelInt SD	*0.00000302*	*0.00001646*	*0.00000465*	---	---	---	*0.00005871*
Conc Mean	0.00165731[mg/l]	<0.00192933[mg/l]	<0.00044029[mg/l]	839242	24139600	141208	0.00061889[mg/l]
Conc RSD	*1.62476543*	*40.75425148*	*188.52114979*	---	---	---	*36.68457493*
Conc SD	*0.00002693[mg/l]*	*0.00078628[mg/l]*	*0.00083004[mg/l]*	*3695.54000000*	*63885.30000000*	*1045.67000000*	*0.00022704[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-43.21150000	829.86100000	4773.83000000	2521.37000000	3743.05000000	2044.55000000	
Int RSD	*556.68745589*	*8.83875733*	*0.91989870*	*2.24303057*	*1.01959098*	*1.47145827*	
Int SD	*240.55300000*	*73.34940000*	*43.91440000*	*56.55510000*	*38.16380000*	*30.08470000*	
RelInt Mean	-0.00122148	0.00093612	0.00097491	0.00093878	0.00008281	-0.00008850	
RelInt RSD	*126.90915938*	*53.35565953*	*5.09869649*	*8.26542221*	*53.26878560*	*36.56327435*	
RelInt SD	*0.00155017*	*0.00049947*	*0.00004971*	*0.00007759*	*0.00004411*	*0.00003236*	
Conc Mean	<-0.00041614[mg/l]	<0.00029722[mg/l]	0.00818406[mg/l]	<-0.03200200[mg/l]	<0.00008338[mg/l]	<0.00183133[mg/l]	
Conc RSD	*1382.32770947*	*284.11125653*	*9.65540331*	*8.64970939*	*207.76283091*	*157.15081389*	
Conc SD	*0.00575246[mg/l]*	*0.00084444[mg/l]*	*0.00079020[mg/l]*	*0.00276808[mg/l]*	*0.00017323[mg/l]*	*0.00287795[mg/l]*	

ENTHALPY CONTINUING CALIBRATION FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973040	File:	met06_master	Time:	12-DEC-2022 14:54
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0255	0.0307	1.000	0.9770	mg/l	-2	10	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	22803100	-7.67
Yttrium	A	853570	848142	-0.64
Yttrium	R	142091	140934	-0.81

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: CCV,S17413			Sample Type: Control Sample
Measure Date: 2022-12-12 14:54:37	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	312184	2093.07000000	19150.50000000	80056.10000000	276391	189400	138256
Int RSD	*1.42582900*	*6.26835223*	*0.15292029*	*0.61540470*	*0.03179438*	*0.82127772*	*0.40538711*
Int SD	*4451.21000000*	*131.20100000*	*29.28500000*	*492.66900000*	*87.87680000*	*1555.50000000*	*560.47200000*
RelInt Mean	0.01239190	0.00999259	0.02006170	0.08963090	0.32250200	1.34428000	0.15862800
RelInt RSD	*1.87282015*	*8.11335199*	*0.12359471*	*0.70701622*	*0.20592120*	*0.50753563*	*0.59990922*
RelInt SD	*0.00023208*	*0.00081073*	*0.00002480*	*0.00063370*	*0.00066410*	*0.00682270*	*0.00095162*
Conc Mean	0.48718200[mg/l]	0.70148600[mg/l]	1.04301000[mg/l]	1.03240000[mg/l]	0.96815500[mg/l]	103.10400000[mg/l]	0.97010400[mg/l]
Conc RSD	*1.87499743*	*12.64029503*	*0.12311962*	*0.70935684*	*0.20655267*	*0.50756227*	*0.60217977*
Conc SD	*0.00913465[mg/l]*	*0.08866990[mg/l]*	*0.00128415[mg/l]*	*0.00732340[mg/l]*	*0.00199975[mg/l]*	*0.52331700[mg/l]*	*0.00584177[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	115604	835274	262586	173924	76795.00000000	1377730	119952
Int RSD	*0.32467821*	*1.31560422*	*0.06459598*	*1.27179113*	*0.48947197*	*0.38524675*	*0.53657713*
Int SD	*375.34100000*	*10988.90000000*	*169.62000000*	*2211.95000000*	*375.89000000*	*5307.66000000*	*643.63500000*
RelInt Mean	0.13176500	0.03538200	0.30521200	1.23369000	0.54261600	1.62835000	0.13895400
RelInt RSD	*0.50568284*	*1.63776779*	*0.22206499*	*1.55233487*	*0.43107465*	*0.46348328*	*0.55762195*
RelInt SD	*0.00066631*	*0.00057947*	*0.00067777*	*0.01915100*	*0.00233908*	*0.00754713*	*0.00077484*
Conc Mean	0.95545800[mg/l]	0.97364200[mg/l]	0.98795500[mg/l]	106.00900000[mg/l]	107.97500000[mg/l]	0.97007000[mg/l]	1.01384000[mg/l]
Conc RSD	*0.50586525*	*1.64564594*	*0.22241398*	*1.55084002*	*0.42989951*	*0.46362221*	*0.55778131*
Conc SD	*0.00483333[mg/l]*	*0.01602270[mg/l]*	*0.00219735[mg/l]*	*1.64403000[mg/l]*	*0.46418400[mg/l]*	*0.00449746[mg/l]*	*0.00565501[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1044630	86456.40000000	30515.10000000	19531.30000000	15305.90000000	225295	173882
Int RSD	*1.40163503*	*0.82000754*	*0.49407343*	*0.27523258*	*0.25119660*	*0.02617284*	*1.01146180*
Int SD	*14641.90000000*	*708.94900000*	*150.76700000*	*53.75650000*	*38.44790000*	*58.96610000*	*1758.75000000*
RelInt Mean	7.38394000	0.09687220	0.03074930	0.01948970	0.01542870	0.26481700	1.23350000
RelInt RSD	*1.67486464*	*0.78844292*	*0.72146683*	*0.15859967*	*0.29672818*	*0.16019213*	*0.73632347*
RelInt SD	*0.12367100*	*0.00076378*	*0.00022185*	*0.00003091*	*0.00004578*	*0.00042422*	*0.00908255*
Conc Mean	94.62810000[mg/l]	0.93974200[mg/l]	0.97695500[mg/l]	1.00877000[mg/l]	0.94346700[mg/l]	4.80351000[mg/l]	1.03077000[mg/l]
Conc RSD	*1.67606662*	*0.79013176*	*0.72029930*	*0.16161960*	*0.29682543*	*0.16009127*	*0.73569370*
Conc SD	*1.58603000[mg/l]*	*0.00742520[mg/l]*	*0.00703700[mg/l]*	*0.00163037[mg/l]*	*0.00280045[mg/l]*	*0.00769000[mg/l]*	*0.00758331[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	2700790	18702.00000000	137038	848142	22803100	140934	204164
Int RSD	*1.34852025*	*0.17673832*	*1.39945854*	*0.16890922*	*0.36360758*	*0.33589340*	*0.37839335*
Int SD	*36420.70000000*	*33.05360000*	*1917.79000000*	*1432.59000000*	*82913.80000000*	*473.38800000*	*772.54300000*
RelInt Mean	0.11705500	0.01956340	0.00571074	---	---	---	0.23866100
RelInt RSD	*1.66436291*	*0.34872568*	*1.75429104*	---	---	---	*0.56683748*
RelInt SD	*0.00194822*	*0.00006822*	*0.00010018*	---	---	---	*0.00135282*
Conc Mean	1.04274000[mg/l]	0.93791700[mg/l]	1.01205000[mg/l]	842644	22752800	140848	0.92191500[mg/l]
Conc RSD	*1.66475823*	*0.34592507*	*1.76644435*	---	---	---	*0.56727681*
Conc SD	*0.01735910[mg/l]*	*0.00324449[mg/l]*	*0.01787730[mg/l]*	*1446.79000000*	*83302.10000000*	*487.87700000*	*0.00522981[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	39127.90000000	98717.60000000	284074	122338	227614	49850.90000000	
Int RSD	*0.60615315*	*1.57279958*	*0.30326570*	*0.05338448*	*0.22714859*	*0.30193036*	
Int SD	*237.17500000*	*1552.63000000*	*861.49900000*	*65.30950000*	*517.02200000*	*150.51500000*	
RelInt Mean	0.27687600	0.69132000	0.33111400	0.14234400	0.26446500	0.05601950	
RelInt RSD	*0.73690388*	*1.65471851*	*0.38409128*	*0.20058309*	*0.32827217*	*0.47018270*	
RelInt SD	*0.00204031*	*0.01143940*	*0.00127178*	*0.00028552*	*0.00086816*	*0.00026339*	
Conc Mean	1.03156000[mg/l]	1.16750000[mg/l]	5.31713000[mg/l]	5.01238000[mg/l]	0.98964900[mg/l]	4.99199000[mg/l]	
Conc RSD	*0.73368878*	*1.65666809*	*0.38423172*	*0.20320885*	*0.32953098*	*0.46936993*	
Conc SD	*0.00756844[mg/l]*	*0.01934160[mg/l]*	*0.02043010[mg/l]*	*0.01018560[mg/l]*	*0.00326120[mg/l]*	*0.02343090[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973041	File:	met06_master	Time:	12-DEC-2022 14:57
Cal:	482498973001	Caldate:	12-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	24502100	-0.79
Yttrium	A	853570	855532	0.23
Yttrium	R	142091	142965	0.62

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: CCB,1			Sample Type: Control Sample
Measure Date: 2022-12-12 14:57:51	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28847.30000000	676.77000000	1810.72000000	4561.64000000	4147.82000000	29.02410000	3873.61000000
Int RSD	*0.99124355*	*16.40468697*	*0.73359768*	*1.61183478*	*1.33043623*	*91.50223435*	*1.05923931*
Int SD	*285.94700000*	*111.02200000*	*13.28340000*	*73.52610000*	*55.18410000*	*26.55770000*	*41.03080000*
RelInt Mean	0.00002363	0.00413424	-0.00001478	0.00081239	0.00021107	-0.00043588	0.00006095
RelInt RSD	*29.96902361*	*20.12401312*	*289.21170531*	*10.99366557*	*27.12290476*	*122.26698449*	*77.68606296*
RelInt SD	*0.00000708*	*0.00083197*	*0.00004273*	*0.00008931*	*0.00005725*	*0.00053294*	*0.00004735*
Conc Mean	<0.00030727[mg/l]	<0.06076700[mg/l]	<0.00314586[mg/l]	0.00571826[mg/l]	<0.00011765[mg/l]	<-0.04074090[mg/l]	<0.00029347[mg/l]
Conc RSD	*90.72684314*	*149.73818026*	*70.42430369*	*18.05409338*	*139.07536954*	*100.33848050*	*98.81111804*
Conc SD	*0.00027878[mg/l]*	*0.09099140[mg/l]*	*0.00221545[mg/l]*	*0.00103238[mg/l]*	*0.00016362[mg/l]*	*0.04087880[mg/l]*	*0.00028998[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3828.16000000	30517.80000000	6309.85000000	-348.18700000	115.72000000	4813.88000000	4181.70000000
Int RSD	*1.01413995*	*0.95558985*	*0.57697885*	*17.67142369*	*47.68562046*	*0.96426375*	*6.76715212*
Int SD	*38.82290000*	*291.62500000*	*36.40650000*	*61.52960000*	*55.18180000*	*46.41850000*	*282.98200000*
RelInt Mean	0.00007818	0.00018225	0.00196004	-0.00147617	-0.00083939	0.00023619	0.00210928
RelInt RSD	*57.47588661*	*4.01804654*	*2.51270892*	*14.06443702*	*70.19206713*	*28.06462676*	*15.94643670*
RelInt SD	*0.00004494*	*0.00000732*	*0.00004925*	*0.00020762*	*0.00058919*	*0.00006629*	*0.00033636*
Conc Mean	0.00048310[mg/l]	<0.00038061[mg/l]	0.00519184[mg/l]	<-0.03853740[mg/l]	<0.05696850[mg/l]	0.00014070[mg/l]	0.01535970[mg/l]
Conc RSD	*67.45394328*	*53.19958383*	*3.07395837*	*46.25428804*	*205.37665552*	*28.06467432*	*15.97837197*
Conc SD	*0.00032587[mg/l]*	*0.00020248[mg/l]*	*0.00015960[mg/l]*	*0.01782520[mg/l]*	*0.11700000[mg/l]*	*0.00003949[mg/l]*	*0.00245423[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	3690.64000000	4280.13000000	3967.42000000	2701.74000000	2091.68000000	1908.28000000	65.64600000
Int RSD	*4.41438341*	*0.81722050*	*1.10071785*	*1.72890063*	*0.40075824*	*1.19410673*	*223.26265119*
Int SD	*162.91900000*	*34.97810000*	*43.67010000*	*46.71040000*	*8.38258000*	*22.78690000*	*146.56300000*
RelInt Mean	0.01410800	0.00020984	-0.00005191	0.00004406	0.00015260	0.00016972	-0.00043736
RelInt RSD	*5.26088744*	*15.89772305*	*63.25657907*	*119.74432656*	*10.58559857*	*13.79266662*	*209.61137012*
RelInt SD	*0.00074221*	*0.00003336*	*0.00003284*	*0.00005275*	*0.00001615*	*0.00002341*	*0.00091675*
Conc Mean	0.11313900[mg/l]	<0.00005542[mg/l]	<0.00064219[mg/l]	0.00566285[mg/l]	0.00887215[mg/l]	0.00346054[mg/l]	<0.00034901[mg/l]
Conc RSD	*8.41276660*	*585.18919504*	*162.93203859*	*48.30112046*	*11.13897984*	*12.26912563*	*219.35043911*
Conc SD	*0.00951812[mg/l]*	*0.00032431[mg/l]*	*0.00104633[mg/l]*	*0.00273522[mg/l]*	*0.00098827[mg/l]*	*0.00042458[mg/l]*	*0.00076554[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	36772.60000000	1811.32000000	6748.58000000	855532	24502100	142965	2816.23000000
Int RSD	*1.08912070*	*1.74599739*	*0.81153369*	*0.17689110*	*0.76262443*	*0.29027105*	*1.53524748*
Int SD	*400.49800000*	*31.62560000*	*54.76700000*	*1513.36000000*	*186859*	*414.98600000*	*43.23610000*
RelInt Mean	0.00022262	0.00000935	0.00004044	---	---	---	0.00031975
RelInt RSD	*6.19966760*	*312.29187223*	*3.45222876*	---	---	---	*11.34891198*
RelInt SD	*0.00001380*	*0.00002921*	*0.00000140*	---	---	---	*0.00003629*
Conc Mean	0.00204117[mg/l]	<0.00356532[mg/l]	<0.00043930[mg/l]	850509	24454700	142876	0.00070593[mg/l]
Conc RSD	*6.02306520*	*39.22368820*	*56.59773914*	---	---	---	*19.86842963*
Conc SD	*0.00012294[mg/l]*	*0.00139845[mg/l]*	*0.00024863[mg/l]*	*1501.97000000*	*186688*	*444.70700000*	*0.00014026[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-28.69740000	883.18200000	4851.29000000	2478.60000000	3912.35000000	2057.55000000	
Int RSD	*288.25642741*	*15.34293045*	*0.84276966*	*2.74512225*	*0.73651897*	*1.04142791*	
Int SD	*82.72210000*	*135.50600000*	*40.88520000*	*68.04060000*	*28.81520000*	*21.42790000*	
RelInt Mean	-0.00106146	0.00103832	0.00088742	0.00084868	0.00013408	-0.00011163	
RelInt RSD	*79.28532399*	*95.41239695*	*4.74295148*	*6.17973795*	*19.93369630*	*22.96753503*	
RelInt SD	*0.00084158*	*0.00099069*	*0.00004209*	*0.00005245*	*0.00002673*	*0.00002564*	
Conc Mean	<0.00017766[mg/l]	<0.00047000[mg/l]	0.00667104[mg/l]	<-0.03521600[mg/l]	<0.00027104[mg/l]	<-0.00022554[mg/l]	
Conc RSD	*1757.87050327*	*356.36155514*	*10.10496115*	*5.31272717*	*39.65938984*	*1011.01356744*	
Conc SD	*0.00312298[mg/l]*	*0.00167491[mg/l]*	*0.00067411[mg/l]*	*0.00187093[mg/l]*	*0.00010749[mg/l]*	*0.00228024[mg/l]*	

ENTHALPY CONTINUING CALIBRATION FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973052	File:	met06_master	Time:	12-DEC-2022 15:34
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0255	0.0305	1.000	0.9702	mg/l	-3	10	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	22422900	-9.21
Yttrium	A	853570	841393	-1.43
Yttrium	R	142091	139948	-1.51

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: CCV,S17413			Sample Type: Control Sample
Measure Date: 2022-12-12 15:34:54	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	308163	1927.14000000	18691.90000000	78739.80000000	271428	186872	136556
Int RSD	*1.62817405*	*3.18147099*	*0.91669119*	*0.65565318*	*0.71250939*	*0.61407809*	*0.57843669*
Int SD	*5017.43000000*	*61.31140000*	*171.34700000*	*516.26000000*	*1933.95000000*	*1147.54000000*	*789.89000000*
RelInt Mean	0.01243220	0.00965021	0.01967960	0.08878210	0.31916900	1.33551000	0.15790200
RelInt RSD	*1.31611461*	*1.21890612*	*0.93680766*	*1.31930873*	*0.95651207*	*0.80042830*	*0.74354980*
RelInt SD	*0.00016362*	*0.00011763*	*0.00018436*	*0.00117131*	*0.00305289*	*0.01068980*	*0.00117408*
Conc Mean	0.48876800[mg/l]	0.66404000[mg/l]	1.02322000[mg/l]	1.02259000[mg/l]	0.95818900[mg/l]	102.43200000[mg/l]	0.96567000[mg/l]
Conc RSD	*1.31773357*	*1.93738329*	*0.93360568*	*1.32360966*	*0.95302179*	*0.80040124*	*0.74336471*
Conc SD	*0.00644066[mg/l]*	*0.01286500[mg/l]*	*0.00955284[mg/l]*	*0.01353510[mg/l]*	*0.00913175[mg/l]*	*0.81986700[mg/l]*	*0.00717845[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	113940	824711	259286	176794	75524.80000000	1359490	116468
Int RSD	*0.53620151*	*1.72313695*	*0.79956496*	*0.57300021*	*0.88584809*	*0.25486101*	*1.51457911*
Int SD	*610.94800000*	*14210.90000000*	*2073.16000000*	*1013.03000000*	*669.03500000*	*3464.81000000*	*1764.00000000*
RelInt Mean	0.13086800	0.03551810	0.30375100	1.26344000	0.53703400	1.61976000	0.13593400
RelInt RSD	*0.93027325*	*1.36041061*	*1.12067450*	*0.47315187*	*0.65318769*	*0.87137601*	*2.01345506*
RelInt SD	*0.00121743*	*0.00048319*	*0.00340406*	*0.00597799*	*0.00350784*	*0.01411420*	*0.00273697*
Conc Mean	0.94895700[mg/l]	0.97740400[mg/l]	0.98321900[mg/l]	108.56300000[mg/l]	106.86700000[mg/l]	0.96495100[mg/l]	0.99180700[mg/l]
Conc RSD	*0.93034985*	*1.36685547*	*1.12197791*	*0.47354624*	*0.65170071*	*0.87122351*	*2.01371839*
Conc SD	*0.00882862[mg/l]*	*0.01335970[mg/l]*	*0.01103150[mg/l]*	*0.51409600[mg/l]*	*0.69645300[mg/l]*	*0.00840688[mg/l]*	*0.01997220[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1059190	85064.40000000	30114.80000000	19338.80000000	15071.70000000	221971	171870
Int RSD	*1.00774176*	*0.50811503*	*0.74908019*	*0.54056612*	*1.05271469*	*0.54180051*	*0.65824169*
Int SD	*10673.90000000*	*432.22500000*	*225.58400000*	*104.53900000*	*158.66200000*	*1202.64000000*	*1131.32000000*
RelInt Mean	7.54115000	0.09598710	0.03053630	0.01942290	0.01525230	0.26298800	1.22792000
RelInt RSD	*0.96337163*	*0.94993806*	*1.48947973*	*0.82370295*	*1.80787160*	*1.10738133*	*0.83488338*
RelInt SD	*0.07264930*	*0.00091182*	*0.00045483*	*0.00015999*	*0.00027574*	*0.00291228*	*0.01025170*
Conc Mean	96.64420000[mg/l]	0.93113800[mg/l]	0.97020900[mg/l]	1.00534000[mg/l]	0.93267600[mg/l]	4.77035000[mg/l]	1.02611000[mg/l]
Conc RSD	*0.96408062*	*0.95198993*	*1.48643230*	*0.82032745*	*1.80868812*	*1.10734852*	*0.83397297*
Conc SD	*0.93172800[mg/l]*	*0.00886434[mg/l]*	*0.01442150[mg/l]*	*0.00824708[mg/l]*	*0.01686920[mg/l]*	*0.05282440[mg/l]*	*0.00855748[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	2636830	18488.80000000	135154	841393	22422900	139948	201257
Int RSD	*1.47659500*	*0.70119207*	*1.48409962*	*0.62506462*	*0.52441923*	*0.27094778*	*0.40203869*
Int SD	*38935.30000000*	*129.64200000*	*2005.82000000*	*5259.25000000*	*117590*	*379.18600000*	*809.13100000*
RelInt Mean	0.11619600	0.01947920	0.00572933	---	---	---	0.23711500
RelInt RSD	*1.10731006*	*1.40287589*	*1.11823197*	---	---	---	*0.84500348*
RelInt SD	*0.00128665*	*0.00027327*	*0.00006407*	---	---	---	*0.00200363*
Conc Mean	1.03508000[mg/l]	0.93394500[mg/l]	1.01538000[mg/l]	835902	22372600	139845	0.91594200[mg/l]
Conc RSD	*1.10737334*	*1.39748058*	*1.12542102*	---	---	---	*0.84547056*
Conc SD	*0.01146220[mg/l]*	*0.01305170[mg/l]*	*0.01142730[mg/l]*	*5285.50000000*	*117708*	*261.43100000*	*0.00774402[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	38773.90000000	97477.80000000	280257	120954	224111	49597.60000000	
Int RSD	*0.41819626*	*1.60338046*	*0.59129656*	*0.77415546*	*0.56530469*	*0.94613651*	
Int SD	*162.15100000*	*1562.94000000*	*1657.15000000*	*936.37200000*	*1266.91000000*	*469.26100000*	
RelInt Mean	0.27611300	0.68784900	0.32932200	0.14180300	0.26245500	0.05617070	
RelInt RSD	*0.46092361*	*1.47637054*	*0.99009176*	*1.25009344*	*0.94905793*	*1.63379840*	
RelInt SD	*0.00127267*	*0.01015520*	*0.00326059*	*0.00177267*	*0.00249085*	*0.00091772*	
Conc Mean	1.02873000[mg/l]	1.16163000[mg/l]	5.28867000[mg/l]	4.99309000[mg/l]	0.98216800[mg/l]	5.00544000[mg/l]	
Conc RSD	*0.45921768*	*1.47796631*	*0.98715556*	*1.26628400*	*0.95069479*	*1.63067582*	
Conc SD	*0.00472411[mg/l]*	*0.01716850[mg/l]*	*0.05220740[mg/l]*	*0.06322670[mg/l]*	*0.00933742[mg/l]*	*0.08162250[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973053	File:	met06_master	Time:	12-DEC-2022 15:41
Cal:	482498973001	Caldate:	12-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	24219700	-1.93
Yttrium	A	853570	850200	-0.39
Yttrium	R	142091	141786	-0.21

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICB,1			Sample Type: Control Sample
Measure Date: 2022-12-12 15:41:32	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28879.90000000	615.34800000	1777.35000000	4143.04000000	4103.27000000	131.49200000	3819.85000000
Int RSD	*2.30900038*	*1.35128740*	*1.38821279*	*0.40040164*	*0.71916545*	*28.35678216*	*0.70138618*
Int SD	*666.83700000*	*8.31512000*	*24.67340000*	*16.58880000*	*29.50930000*	*37.28690000*	*26.79190000*
RelInt Mean	0.00002381	0.00359366	-0.00006464	0.00035134	0.00018950	0.00035511	0.00001104
RelInt RSD	*32.78931190*	*7.77416339*	*31.78118517*	*6.77025104*	*20.77073274*	*18.64448399*	*262.70916335*
RelInt SD	*0.00000781*	*0.00027938*	*0.00002054*	*0.00002379*	*0.00003936*	*0.00006621*	*0.00002901*
Conc Mean	<0.00031446[mg/l]	<0.00164563[mg/l]	<0.00056125[mg/l]	<0.00038887[mg/l]	<0.00009594[mg/l]	<0.01993170[mg/l]	<-0.00000978[mg/l]
Conc RSD	*97.74596289*	*1856.72356484*	*189.73728519*	*70.70622391*	*122.91907261*	*25.47966305*	*1816.39676713*
Conc SD	*0.00030737[mg/l]*	*0.03055480[mg/l]*	*0.00106491[mg/l]*	*0.00027496[mg/l]*	*0.00011793[mg/l]*	*0.00507853[mg/l]*	*0.00017770[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3795.20000000	30702.60000000	6484.43000000	-319.38100000	55.11260000	4743.67000000	2792.42000000
Int RSD	*1.09403457*	*1.80894126*	*6.19249495*	*19.61945138*	*170.99900930*	*0.57944376*	*1.53521318*
Int SD	*41.52080000*	*555.39200000*	*401.54800000*	*62.66080000*	*94.24200000*	*27.48690000*	*42.86960000*
RelInt Mean	0.00006525	0.00018439	0.00219374	-0.00142471	-0.00141186	0.00015268	0.00048759
RelInt RSD	*61.12753459*	*2.48724971*	*20.18539116*	*23.53700051*	*42.01259332*	*30.01467159*	*9.75142796*
RelInt SD	*0.00003989*	*0.00000459*	*0.00044282*	*0.00033533*	*0.00059316*	*0.00004583*	*0.00004755*
Conc Mean	0.00038933[mg/l]	0.00043967[mg/l]	0.00594923[mg/l]	<-0.03411920[mg/l]	<-0.05671010[mg/l]	0.00009095[mg/l]	0.00352700[mg/l]
Conc RSD	*74.29590760*	*28.84114139*	*24.12177710*	*84.38327980*	*207.70197901*	*30.01468861*	*9.83597959*
Conc SD	*0.00028926[mg/l]*	*0.00012681[mg/l]*	*0.00143506[mg/l]*	*0.02879090[mg/l]*	*0.11778800[mg/l]*	*0.00002730[mg/l]*	*0.00034691[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	3913.53000000	4242.44000000	3950.04000000	2632.10000000	2019.75000000	1788.46000000	-21.22390000
Int RSD	*3.07829504*	*0.35554304*	*0.67918300*	*0.93542799*	*2.05696250*	*0.91881842*	*69.52445121*
Int SD	*120.47000000*	*15.08370000*	*26.82800000*	*24.62140000*	*41.54550000*	*16.43270000*	*14.75580000*
RelInt Mean	0.01573090	0.00022837	-0.00005116	-0.00001957	0.00006605	0.00004504	-0.00085449
RelInt RSD	*7.99204114*	*9.47606724*	*58.00579368*	*204.94663540*	*82.30332869*	*25.24279605*	*22.85294651*
RelInt SD	*0.00125722*	*0.00002164*	*0.00002968*	*0.00004011*	*0.00005436*	*0.00001137*	*0.00019528*
Conc Mean	0.13395200[mg/l]	<0.00023552[mg/l]	<0.00067794[mg/l]	<0.00236274[mg/l]	<0.00357743[mg/l]	<0.00119915[mg/l]	<0.00000067[mg/l]
Conc RSD	*12.03655041*	*89.32442818*	*138.07519840*	*88.00121892*	*92.97177024*	*17.19559688*	*24171.21605377*
Conc SD	*0.01612320[mg/l]*	*0.00021038[mg/l]*	*0.00093607[mg/l]*	*0.00207924[mg/l]*	*0.00332600[mg/l]*	*0.00020620[mg/l]*	*0.00016307[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	32722.50000000	1730.27000000	6724.99000000	850200	24219700	141786	2811.63000000
Int RSD	*1.30459775*	*0.56440556*	*3.00406395*	*1.13393554*	*0.77347779*	*0.51442597*	*1.95395198*
Int SD	*426.89700000*	*9.76574000*	*202.02300000*	*9640.72000000*	*187334*	*729.38400000*	*54.93790000*
RelInt Mean	0.00005667	-0.00005782	0.00003662	---	---	---	0.00034478
RelInt RSD	*10.71267880*	*31.72380751*	*4.86855614*	---	---	---	*17.02188075*
RelInt SD	*0.00000607*	*0.00001834*	*0.00000178*	---	---	---	*0.00005869*
Conc Mean	0.00056299[mg/l]	<0.00037279[mg/l]	<-0.00023741[mg/l]	845244	24172500	141756	0.00080275[mg/l]
Conc RSD	*9.60617348*	*236.36161229*	*134.01176872*	---	---	---	*28.27971777*
Conc SD	*0.00005408[mg/l]*	*0.00088112[mg/l]*	*0.00031816[mg/l]*	*9648.30000000*	*186902*	*692.12700000*	*0.00022702[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-75.99640000	872.64300000	5006.32000000	2445.91000000	3856.39000000	2051.07000000	
Int RSD	*16.05707639*	*5.75111472*	*2.98628534*	*3.55108733*	*0.37752146*	*2.22534092*	
Int SD	*12.20280000*	*50.18670000*	*149.50300000*	*86.85640000*	*14.55870000*	*45.64330000*	
RelInt Mean	-0.00149522	0.00121235	0.00114346	0.00083210	0.00007494	-0.00010485	
RelInt RSD	*32.28147029*	*9.33748505*	*16.01673867*	*15.83789910*	*40.93832478*	*34.04700137*	
RelInt SD	*0.00048268*	*0.00011320*	*0.00018315*	*0.00013179*	*0.00003068*	*0.00003570*	
Conc Mean	<-0.00143196[mg/l]	<0.00076424[mg/l]	0.01107210[mg/l]	<-0.03580750[mg/l]	<0.00005826[mg/l]	<0.00037745[mg/l]	
Conc RSD	*125.08380122*	*25.04331123*	*26.72176010*	*13.12923270*	*197.59132520*	*841.13922374*	
Conc SD	*0.00179115[mg/l]*	*0.00019139[mg/l]*	*0.00295866[mg/l]*	*0.00470125[mg/l]*	*0.00011511[mg/l]*	*0.00317488[mg/l]*	

ENTHALPY CONTINUING CALIBRATION FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973064	File:	met06_master	Time:	12-DEC-2022 16:18
Cal:	482498973001	Caldate:	12-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0255	0.0305	1.000	0.9701	mg/l	-3	10	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	22293500	-9.73
Yttrium	A	853570	837046	-1.94
Yttrium	R	142091	139488	-1.83

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICV,S17413			Sample Type: Control Sample
Measure Date: 2022-12-12 16:18:15	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	307592	2063.30000000	18834.40000000	79051.50000000	272799	187547	136392
Int RSD	*1.14810528*	*3.68622110*	*0.09166950*	*0.16955655*	*0.19407329*	*0.70603102*	*0.26895272*
Int SD	*3531.48000000*	*76.05780000*	*17.26540000*	*134.03700000*	*529.43000000*	*1324.14000000*	*366.83000000*
RelInt Mean	0.01247980	0.01010780	0.01996760	0.08959380	0.32245100	1.34531000	0.15843700
RelInt RSD	*1.68993894*	*8.18585647*	*0.01475480*	*0.12323955*	*0.27647798*	*0.29681189*	*0.23090061*
RelInt SD	*0.00021090*	*0.00082741*	*0.00000295*	*0.00011042*	*0.00089151*	*0.00399304*	*0.00036583*
Conc Mean	0.49064100[mg/l]	0.71408200[mg/l]	1.03814000[mg/l]	1.03197000[mg/l]	0.96803100[mg/l]	103.18400000[mg/l]	0.96892600[mg/l]
Conc RSD	*1.69215170*	*12.67235416*	*0.01474560*	*0.12396775*	*0.28109224*	*0.29679020*	*0.23265863*
Conc SD	*0.00830239[mg/l]*	*0.09049100[mg/l]*	*0.00015308[mg/l]*	*0.00127931[mg/l]*	*0.00272106[mg/l]*	*0.30624000[mg/l]*	*0.00225429[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	113988	823112	260103	174728	75802.20000000	1359160	117588
Int RSD	*0.13006983*	*1.33212734*	*0.25766177*	*1.26976214*	*0.21479588*	*0.21666029*	*0.92867469*
Int SD	*148.26400000*	*10964.90000000*	*670.18600000*	*2218.63000000*	*162.82000000*	*2944.76000000*	*1092.01000000*
RelInt Mean	0.13157400	0.03566780	0.30626300	1.25300000	0.54115500	1.62767000	0.13794600
RelInt RSD	*0.07298387*	*1.86688834*	*0.28754469*	*1.56549880*	*0.39409227*	*0.13850228*	*0.88459252*
RelInt SD	*0.00009603*	*0.00066588*	*0.00088064*	*0.01961570*	*0.00213265*	*0.00225436*	*0.00122026*
Conc Mean	0.95407500[mg/l]	0.98154200[mg/l]	0.99136000[mg/l]	107.66700000[mg/l]	107.68500000[mg/l]	0.96966200[mg/l]	1.00649000[mg/l]
Conc RSD	*0.07271168*	*1.87576283*	*0.28780867*	*1.56450909*	*0.39333333*	*0.13853693*	*0.88473706*
Conc SD	*0.00069372[mg/l]*	*0.01841140[mg/l]*	*0.00285322[mg/l]*	*1.68446000[mg/l]*	*0.42356100[mg/l]*	*0.00134334[mg/l]*	*0.00890479[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1044170	85288.40000000	30007.40000000	19199.10000000	15135.60000000	222678	172635
Int RSD	*1.19204727*	*0.23679774*	*0.51593607*	*0.70345485*	*1.45211951*	*0.00314355*	*0.62804761*
Int SD	*12447.00000000*	*201.96100000*	*154.81900000*	*135.05700000*	*219.78700000*	*7.00000000*	*1084.23000000*
RelInt Mean	7.46031000	0.09670260	0.03053390	0.01933020	0.01542780	0.26519600	1.23794000
RelInt RSD	*1.50576853*	*0.14762271*	*0.51678299*	*0.74050450*	*1.49690170*	*0.08987994*	*0.17826551*
RelInt SD	*0.11233500*	*0.00014276*	*0.00015779*	*0.00014314*	*0.00023094*	*0.00023836*	*0.00220682*
Conc Mean	95.60760000[mg/l]	0.93809400[mg/l]	0.97012400[mg/l]	1.00050000[mg/l]	0.94341600[mg/l]	4.81040000[mg/l]	1.03448000[mg/l]
Conc RSD	*1.50686765*	*0.14795212*	*0.51421365*	*0.74237481*	*1.49787580*	*0.09001372*	*0.17801504*
Conc SD	*1.44068000[mg/l]*	*0.00138793[mg/l]*	*0.00498851[mg/l]*	*0.00742746[mg/l]*	*0.01413120[mg/l]*	*0.00433002[mg/l]*	*0.00184153[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	2654100	18494.20000000	134865	837046	22293500	139488	201875
Int RSD	*1.63594816*	*0.26057304*	*1.60136433*	*0.08635846*	*0.56210106*	*0.50413871*	*0.21939616*
Int SD	*43419.70000000*	*48.19090000*	*2159.68000000*	*722.86000000*	*125312*	*703.21300000*	*442.90600000*
RelInt Mean	0.11765500	0.01958280	0.00575276	---	---	---	0.23910200
RelInt RSD	*2.09543156*	*0.21407306*	*2.05124149*	---	---	---	*0.29867379*
RelInt SD	*0.00246538*	*0.00004192*	*0.00011800*	---	---	---	*0.00071413*
Conc Mean	1.04808000[mg/l]	0.93885400[mg/l]	1.01955000[mg/l]	831570	22243300	139349	0.92362200[mg/l]
Conc RSD	*2.09569880*	*0.20625891*	*2.06534255*	---	---	---	*0.29912453*
Conc SD	*0.02196460[mg/l]*	*0.00193647[mg/l]*	*0.02105720[mg/l]*	*720.48100000*	*125312*	*637.13100000*	*0.00276278[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	38992.30000000	97736.80000000	281052	120777	224517	49766.30000000	
Int RSD	*0.40895510*	*0.86517361*	*0.34972140*	*0.63210462*	*0.21108602*	*0.41897429*	
Int SD	*159.46100000*	*845.59300000*	*982.89900000*	*763.43700000*	*473.92400000*	*208.50800000*	
RelInt Mean	0.27896700	0.69189100	0.33186400	0.14233100	0.26426100	0.05666510	
RelInt RSD	*0.70463532*	*1.04241564*	*0.35563665*	*0.71874012*	*0.23468843*	*0.40514179*	
RelInt SD	*0.00196570*	*0.00721238*	*0.00118023*	*0.00102299*	*0.00062019*	*0.00022957*	
Conc Mean	1.03932000[mg/l]	1.16847000[mg/l]	5.32940000[mg/l]	5.01194000[mg/l]	0.98889900[mg/l]	5.04941000[mg/l]	
Conc RSD	*0.70166263*	*1.04325314*	*0.35869516*	*0.72823897*	*0.23577635*	*0.40433635*	
Conc SD	*0.00729252[mg/l]*	*0.01219010[mg/l]*	*0.01911630[mg/l]*	*0.03649890[mg/l]*	*0.00233159[mg/l]*	*0.02041660[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 474718 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482498973065	File:	met06_master	Time:	12-DEC-2022 16:23
Cal:	482498973001	Caldate:	12-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 005)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	24697000	24245900	-1.83
Yttrium	A	853570	849364	-0.49
Yttrium	R	142091	140579	-1.06

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICB,1			Sample Type: Control Sample
Measure Date: 2022-12-12 16:23:45	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28893.30000000	600.53600000	1811.65000000	4346.58000000	4210.61000000	33.83210000	3934.17000000
Int RSD	*1.18333316*	*2.16992820*	*1.99120139*	*0.95032646*	*0.43146242*	*109.92046015*	*0.69729066*
Int SD	*341.90400000*	*13.03120000*	*36.07360000*	*41.30670000*	*18.16720000*	*37.18840000*	*27.43260000*
RelInt Mean	0.00001779	0.00338206	-0.00005886	0.00042415	0.00019758	-0.00003291	0.00001248
RelInt RSD	*30.32104317*	*7.20176461*	*62.35888724*	*10.31111708*	*8.93240343*	*508.86702052*	*19.13041736*
RelInt SD	*0.00000539*	*0.00024357*	*0.00003671*	*0.00004373*	*0.00001765*	*0.00016749*	*0.00000239*
Conc Mean	<0.00007743[mg/l]	<-0.02149740[mg/l]	<0.00086048[mg/l]	0.00123049[mg/l]	<0.00011666[mg/l]	<-0.00983153[mg/l]	<-0.00000113[mg/l]
Conc RSD	*274.27643721*	*123.91731093*	*221.17113296*	*41.08460857*	*44.33819937*	*130.67243857*	*1292.86765880*
Conc SD	*0.00021236[mg/l]*	*0.02663900[mg/l]*	*0.00190314[mg/l]*	*0.00050554[mg/l]*	*0.00005172[mg/l]*	*0.01284710[mg/l]*	*0.00001458[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3923.97000000	30806.90000000	6664.09000000	-190.14100000	58.13410000	4859.20000000	2978.42000000
Int RSD	*1.74418255*	*0.73193018*	*0.27566855*	*18.41186278*	*104.54965330*	*0.87486829*	*1.18379879*
Int SD	*68.44120000*	*225.48500000*	*18.37080000*	*35.00850000*	*60.77900000*	*42.51160000*	*35.25850000*
RelInt Mean	0.00008436	0.00018296	0.00225362	-0.00056696	-0.00136858	0.00013474	0.00062492
RelInt RSD	*88.04332880*	*1.61025935*	*1.39533728*	*55.11480487*	*21.32699586*	*11.93011623*	*11.87459895*
RelInt SD	*0.00007427*	*0.00000295*	*0.00003145*	*0.00031248*	*0.00029188*	*0.00001607*	*0.00007421*
Conc Mean	<0.00052790[mg/l]	0.00040008[mg/l]	0.00614327[mg/l]	0.03952390[mg/l]	<-0.04811550[mg/l]	0.00008027[mg/l]	0.00452909[mg/l]
Conc RSD	*102.03108573*	*20.36025115*	*1.65875828*	*67.87892895*	*120.45868795*	*11.92993516*	*11.95494018*
Conc SD	*0.00053862[mg/l]*	*0.00008146[mg/l]*	*0.00010190[mg/l]*	*0.02682840[mg/l]*	*0.05795930[mg/l]*	*0.00000958[mg/l]*	*0.00054145[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	5374.70000000	4355.79000000	4029.40000000	2694.72000000	2059.78000000	1843.07000000	-62.43700000
Int RSD	*0.46481664*	*0.52633391*	*0.66205887*	*1.01559717*	*1.87408364*	*0.33812118*	*96.40325448*
Int SD	*24.98250000*	*22.92600000*	*26.67700000*	*27.36750000*	*38.60200000*	*6.23181000*	*60.19130000*
RelInt Mean	0.02593740	0.00022208	-0.00009117	-0.00003057	0.00005366	0.00004984	-0.00119570
RelInt RSD	*1.10772090*	*20.72069922*	*49.09087120*	*93.80945527*	*74.70565654*	*18.39188983*	*38.52981517*
RelInt SD	*0.00028731*	*0.00004602*	*0.00004476*	*0.00002868*	*0.00004009*	*0.00000917*	*0.00046070*
Conc Mean	0.26484600[mg/l]	<0.00017435[mg/l]	<-0.00058583[mg/l]	<0.00179152[mg/l]	<0.00281933[mg/l]	<0.00128632[mg/l]	<-0.00028426[mg/l]
Conc RSD	*1.39135196*	*256.58034357*	*241.29819896*	*83.20923015*	*86.99300898*	*12.92602152*	*135.34020270*
Conc SD	*0.00368494[mg/l]*	*0.00044733[mg/l]*	*0.00141359[mg/l]*	*0.00149071[mg/l]*	*0.00245262[mg/l]*	*0.00016627[mg/l]*	*0.00038471[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	33193.10000000	1781.34000000	6680.29000000	849364	24245900	140579	2882.43000000
Int RSD	*1.29515472*	*1.11934836*	*2.66513879*	*0.10404043*	*0.80546402*	*0.52482732*	*0.59922010*
Int SD	*429.90200000*	*19.93940000*	*178.03900000*	*883.68200000*	*195292*	*737.79700000*	*17.27210000*
RelInt Mean	0.00006632	-0.00005736	0.00003429	---	---	---	0.00034189
RelInt RSD	*6.13679917*	*27.93250608*	*4.00041415*	---	---	---	*11.61282869*
RelInt SD	*0.00000407*	*0.00001602*	*0.00000137*	---	---	---	*0.00003970*
Conc Mean	0.00064893[mg/l]	<0.00039172[mg/l]	<-0.00065496[mg/l]	844282	24198000	140485	0.00079152[mg/l]
Conc RSD	*5.58681532*	*196.94345663*	*37.34932401*	---	---	---	*19.39609483*
Conc SD	*0.00003625[mg/l]*	*0.00077146[mg/l]*	*0.00024463[mg/l]*	*901.63600000*	*195098*	*713.83200000*	*0.00015352[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-58.59860000	831.67800000	4967.19000000	2514.63000000	3996.53000000	2087.62000000	
Int RSD	*159.28401020*	*3.92142151*	*0.44878493*	*1.52005265*	*0.96929586*	*1.35672201*	
Int SD	*93.33820000*	*32.61360000*	*22.29200000*	*38.22370000*	*38.73820000*	*28.32320000*	
RelInt Mean	-0.00147405	0.00073660	0.00094212	0.00085097	0.00011122	-0.00011483	
RelInt RSD	*22.85621248*	*55.97531920*	*9.72588418*	*8.00031494*	*10.40099620*	*17.37760167*	
RelInt SD	*0.00033691*	*0.00041232*	*0.00009163*	*0.00006808*	*0.00001157*	*0.00001995*	
Conc Mean	<-0.00135339[mg/l]	<-0.00004009[mg/l]	0.00779816[mg/l]	<-0.03513440[mg/l]	<0.00019348[mg/l]	<-0.00051031[mg/l]	
Conc RSD	*92.37765906*	*1738.76680552*	*18.83251947*	*6.91242771*	*26.03375026*	*347.77155936*	
Conc SD	*0.00125023[mg/l]*	*0.00069709[mg/l]*	*0.00146859[mg/l]*	*0.00242864[mg/l]*	*0.00005037[mg/l]*	*0.00177472[mg/l]*	

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

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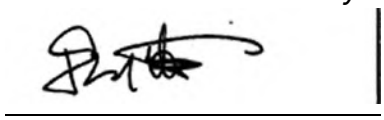
Lab Job Number: 475736
Report Level: II
Report Date: 12/30/2022

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

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Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	475736
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	12/21/22

Sample ID	Lab ID	Collected	Matrix
ARCH-C4W-INT-2.5 TO 3.5-221221-P-WF	475736-001	12/21/22 08:30	Wipe
ARCH-C4W-INT-2.5 TO 3.5-221221-L-WF	475736-002	12/21/22 08:30	Wipe
ARCH-C3W-INT-2.5 TO 3.5-221221-P-WF	475736-003	12/21/22 09:05	Wipe
ARCH-C3W-INT-2.5 TO 3.5-221221-L-WF	475736-004	12/21/22 09:05	Wipe
ARCH-C4W-DG-3 TO 3.5-221221-P-FB	475736-005	12/21/22 08:55	Wipe
ARCH-C4W-DG-3 TO 3.5-221221-L-FB	475736-006	12/21/22 08:55	Wipe
ARCH-C4W-DG-3 TO 3.5-221221-L-DUP-FB	475736-007	12/21/22 08:55	Wipe
ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-P-LA	475736-008	12/21/22 09:20	Wipe
ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-P-DUP-LA	475736-009	12/21/22 09:20	Wipe
ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-L-LA	475736-010	12/21/22 09:20	Wipe
ARCH-C5W-DG-4 TO 4.5-221221-P-FB	475736-011	12/21/22 11:50	Wipe
ARCH-C5W-DG-4 TO 4.5-221221-L-FB	475736-012	12/21/22 11:50	Wipe
ARCH-C5W-DG-4 TO 4.5-221221-L-DUP-FB	475736-013	12/21/22 11:50	Wipe
ARCH-C4W-EXT-4 TO 5-221221-P-WF	475736-014	12/21/22 12:00	Wipe
ARCH-C4W-EXT-4 TO 5-221221-L-WF	475736-015	12/21/22 12:00	Wipe
ARCH-C5W-PS-4.5-221221-P-G	475736-016	12/21/22 12:10	Wipe
ARCH-C5W-PS-4.5-221221-L-G	475736-017	12/21/22 12:10	Wipe

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	475736
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	12/21/22

Sample ID	Lab ID	Collected	Matrix
ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-P-LA	475736-018	12/21/22 12:20	Wipe
ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-L-LA	475736-019	12/21/22 12:20	Wipe
ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-P-LA	475736-020	12/21/22 12:40	Wipe
ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-L-LA	475736-021	12/21/22 12:40	Wipe
ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-P-LA	475736-022	12/21/22 12:50	Wipe
ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-L-LA	475736-023	12/21/22 12:50	Wipe
ARCH-C3W-INT-4.5 TO 5.5-221221-P-WF	475736-024	12/21/22 12:35	Wipe
ARCH-C3W-INT-4.5 TO 5.5-221221-L-WF	475736-025	12/21/22 12:35	Wipe
ARCH-C4W-PS-5.5-221221-P-G	475736-026	12/21/22 07:45	Wipe
ARCH-C4W-PS-5.5-221221-L-G	475736-027	12/21/22 07:45	Wipe
ARCH-C3W-PS-5.5-221221-P-G	475736-028	12/21/22 08:05	Wipe
ARCH-C3W-PS-5.5-221221-L-G	475736-029	12/21/22 08:05	Wipe
ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-P-LA	475736-030	12/21/22 09:15	Wipe
ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-L-LA	475736-031	12/21/22 09:15	Wipe
ARCH-C5W-PS-6-221221-P-G	475736-032	12/21/22 08:25	Wipe
ARCH-C5W-PS-6-221221-L-G	475736-033	12/21/22 08:25	Wipe

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Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	475736
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	12/21/22

Sample ID	Lab ID	Collected	Matrix
ARCH-C3W-DG-5.5 TO 6-UP-C3.3-HS-221221-P-LA	475736-034	12/21/22 08:55	Wipe
ARCH-C3W-DG-5.5 TO 6-UP-C3.3-HS-221221-L-LA	475736-035	12/21/22 08:55	Wipe
ARCH-C5W-DG-5.5 TO 6-221221-P-FB	475736-036	12/21/22 08:40	Wipe
ARCH-C5W-DG-5.5 TO 6-221221-L-FB	475736-037	12/21/22 08:40	Wipe
ARCH-C5W-DG-6 TO 6.5-221221-P-FB	475736-038	12/21/22 09:25	Wipe
ARCH-C5W-DG-6 TO 6.5-221221-L-FB	475736-039	12/21/22 09:25	Wipe
ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-P-LA	475736-040	12/21/22 09:55	Wipe
ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-L-LA	475736-041	12/21/22 09:55	Wipe
ARCH-C3W-EXT-6 TO 7-221221-P-WF	475736-042	12/21/22 09:38	Wipe
ARCH-C3W-EXT-6 TO 7-221221-L-WF	475736-043	12/21/22 09:38	Wipe
ARCH-C5W-PS-6.5-221221-P-G	475736-044	12/21/22 10:15	Wipe
ARCH-C5W-PS-6.5-221221-P-DUP-G	475736-045	12/21/22 10:15	Wipe
ARCH-C5W-PS-6.5-221221-L-G	475736-046	12/21/22 10:15	Wipe
ARCH-C3W-PS-6.5-221221-P-G	475736-047	12/21/22 10:35	Wipe
ARCH-C3W-PS-6.5-221221-L-G	475736-048	12/21/22 10:35	Wipe
ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-P-LA	475736-049	12/21/22 12:20	Wipe
ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-L-LA	475736-050	12/21/22 12:20	Wipe
ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-P-LA	475736-051	12/21/22 12:45	Wipe
ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-L-LA	475736-052	12/21/22 12:45	Wipe

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Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	475736
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	12/21/22

Sample ID	Lab ID	Collected	Matrix
ARCH-C5W-EXT-8 TO 9-221221-P-WF	475736-053	12/21/22 13:00	Wipe
ARCH-C5W-EXT-8 TO 9-221221-L-WF	475736-054	12/21/22 13:00	Wipe
221221-P-MEDBLANK1	475736-055	12/21/22 07:35	Wipe
221221-L-MEDBLANK1	475736-056	12/21/22 07:35	Wipe
221221-P-MEDBLANK2	475736-057	12/21/22 12:55	Wipe
221221-L-MEDBLANK2	475736-058	12/21/22 12:55	Wipe

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Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 475736 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 12/21/22

This data package contains sample and QC results for fifty eight wipe samples, requested for the above referenced project on 12/22/22. The samples were received cold and intact.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B):

- An interference check standard recovered slightly low for lead in the presence of high concentrations of aluminum. As it relates to these samples, the bias is insignificant; results are flagged "b", but there is no effect on the data quality.
- No analytical problems were encountered.

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Chain of Custody Record

COC ID:

Page: 1 of 5

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott, M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
1	ARCH-C4W-INT-2.5 TO 3.5-221221-P- WF	12/21/2022	0830	WP	1	--	X		
2	ARCH-C4W-INT-2.5 TO 3.5-221221-L- WF	12/21/2022	0830	WP	1	--		X	
3	ARCH-C3W-INT-2.5 TO 3.5-221221-P- WF	12/21/2022	0905	WP	1	--	X		
4	ARCH-C3W-INT-2.5 TO 3.5-221221-L- WF	12/21/2022	0905	WP	1	--		X	
5	ARCH-C4W-DG-3 TO 3.5-221221-P- FB	12/21/2022	0855	WP	1	--	X		
6	ARCH-C4W-DG-3 TO 3.5-221221-L- FB	12/21/2022	0855	WP	1	--		X	
7	ARCH-C4W-DG-3 TO 3.5-221221-L-DUP- FB	12/21/2022	0855	WP	1	--		X	
8	ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-P- LA	12/21/2022	0920	WP	1	--	X		
9	ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-P-DUP- LA	12/21/2022	0920	WP	1	--	X		
10	ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-L- LA	12/21/2022	0920	WP	1	--		X	
11	ARCH-C5W-DG-4 TO 4.5-221221-P- FB	12/21/2022	1150	WP	1	--	X		
12	ARCH-C5W-DG-4 TO 4.5-221221-L- FB	12/21/2022	1150	WP	1	--		X	
13	ARCH-C5W-DG-4 TO 4.5-221221-L-DUP- FB	12/21/2022	1150	WP	1	--		X	
14	ARCH-C4W-EXT-4 TO 5-221221-P- WF	12/21/2022	1700	WP	1	--	X		
15	ARCH-C4W-EXT-4 TO 5-221221-L- WF	12/21/2022	1700	WP	1	--		X	

Analysis Request

Test Instructions / Comments

Confirmation Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm2 basis

Report lead concentrations on a µg/ft2 basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure C/D

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Donald Welsh	Rincon Consultants, Inc.	12/21/22 1435
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	12/21/22 14:38
2 Relinquished By:	Audrey Hudson	"	"	12/21/22 17:00
2 Received By:		Jack Peterson	B A Enthalpy E.A!	12/21/22 17:00
3 Relinquished By:		Geena Sylvestri		12.21.22 17:47
3 Received By:	Geena Sylvestri			12/22/22 10:00

~~475536~~ 475736

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Chain of Custody Record

COC ID:

Page: 2 of 5

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

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Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Smart, M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
16	ARCH-C5W-PS-4.5-221221-P- GA	12/21/2022	1210	WP	1	--	X			2x Rivet Type 1 = 25.67cm2
17	ARCH-C5W-PS-4.5-221221-L- GA	12/21/2022	1210	WP	1	--		X		9x Rivet Type 2 = 0.1742ft2
18	ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-P- LA	12/21/2022	1220	WP	1	--	X			2x Rivet Type 2 = 0.0700 ft2
19	ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-L- LA	12/21/2022	1220	WP	1	--		X		2x Rivet Type 2 = 0.0700 ft2
20	ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-P- LA	12/21/2022	1240	WP	1	--	X			2x Rivet Type 2 = 0.0700 ft2
21	ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-L- LA	12/21/2022	1240	WP	1	--		X		
22	ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-P- LA	12/21/2022	1250	WP	1	--	X			
23	ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-L- LA	12/21/2022	1250	WP	1	--		X		
24	ARCH-C3W-INT-4.5 TO 5.5-221221-P- WF	12/21/2022	1235	WP	1	--	X			
25	ARCH-C3W-INT-4.5 TO 5.5-221221-L- WF	12/21/2022	1235	WP	1	--		X		
26	ARCH-C4W-PS-5.5-221221-P- GA	12/21/2022	0745	WP	1	--	X			
27	ARCH-C4W-PS-5.5-221221-L- GA	12/21/2022	0745	WP	1	--		X		10x Rivet Type 1 = 0.138 ft2
28	ARCH-C3W-PS-5.5-221221-P- GA	12/21/2022	0805	WP	1	--	X			
29	ARCH-C3W-PS-5.5-221221-L- GA	12/21/2022	0805	WP	1	--		X		8x Rivet Type 1 = 0.1104 ft2
30	~~ARCH-C3W-DG-8 TO 9-UP-C3.1-HS-221221-P-~~	12/21/2022		WP	1	--	X			DW

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:	[signature]	Donald Welsh	Rincon Consultants, Inc.	12/21/22 1435
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	12/21/22 14:38
2 Relinquished By:	Audrey Hudson	"	"	12/21/22 17:00
2 Received By:	[signature]	[illegible]	[illegible]	12/21/22 17:00
3 Relinquished By:	[signature]	Jak Peterson	Enthalpy	12.21.22 17:49
3 Received By:	Teresa Sylvester	Teresa Sylvester	E.A.	12/22/22 10:00

~~475536~~ 475736

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 3 of 5

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

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Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Smart, M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
31	~~ARCH-C5W-DG-8 TO 9-UP-C3.1-HS-221221-L-~~	~~12/21/2022~~		~~WP~~	~~1~~	--		X		DW
32	ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-P- LA	12/21/2022	0915	WP	1	--	X			
33	ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-L- LA	12/21/2022	0915	WP	1	--		X		
34	ARCH-C5W-PS-6-221221-P- CA	12/21/2022	0825	WP	1	--	X			
35	ARCH-C5W-PS-6-221221-L- CA	12/21/2022	0825	WP	1	--		X		14x Rivet Type 2 = 0.14ft²
36	ARCH-C3W-DG-5.5 TO 6-UP-C3.3-HS-221221-P- LA	12/21/2022	0855	WP	1	--	X			
37	ARCH-C3W-DG-5.5 TO 6-UP-C3.3-HS-221221-L- LA	12/21/2022	0855	WP	1	--		X		2x Rivet Type 2 = 0.02ft²
38	ARCH-C5W-DG-5.5 TO 6-221221-P- FB	12/21/2022	0840	WP	1	--	X			
39	ARCH-C5W-DG-5.5 TO 6-221221-L- FB	12/21/2022	0840	WP	1	--		X		
40	ARCH-~~C3W~~ C5W-DG-6 TO 6.5-221221-P- FB	12/21/2022	0925	WP	1	--	X			
41	ARCH-~~C3W~~ C5W-DG-6 TO 6.5-221221-L- FB	12/21/2022	0925	WP	1	--		X		
42	ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-P- LA	12/21/2022	0955	WP	1	--	X			
43	ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-L- LA	12/21/2022	0955	WP	1	--		X		2x Rivet Type 2 = 0.02ft²
44	ARCH-C3W-EXT-6 TO 7-221221-P- WF	12/21/2022	0938	WP	1	--	X			
45	ARCH-C3W-EXT-6 TO 7-221221-L- WF	12/21/2022	0938	WP	1	--		X		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Donald Welch	Rincon Consultants, Inc.	12/21/22 1435
[1] Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	12/21/22 14:38
[2] Relinquished By:	Audrey Hudson	"	"	12/21/22 17:00
[2] Received By:				
[3] Relinquished By:		Jak Peterson	Enthalpy	12.21.22 17:47
[3] Received By:		Geena Sylvestre	EA	12/22/22 10:00

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ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 4 of 5

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Sample Receipt Temp: (lab use only)

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

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Report: Level II data validation

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Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Simmett, M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
46	ARCH-C5W-PS-6.5-221221-P- G	12/21/2022	1015	WP	1	--	X			**Confirmation Wipe Samples - Level II Report/Stage 2A Validation**
47	ARCH-C5W-PS-6.5-221221-P-DUP- G	12/21/2022	1015	WP	1	--	X			Report PCB concentrations on a µg/100cm2 basis
48	ARCH-C5W-PS-6.5-221221-L- G	12/21/2022	1015	WP	1	--		X		Report lead concentrations on a µg/ft2 basis
49	ARCH-C3W-PS-6.5-221221-P- G	12/21/2022	1035	WP	1	--	X			Report Aroclor 1268 concentrations in addition to the standard Aroclors
50	ARCH-C3W-PS-6.5-221221-L- G	12/21/2022	1035	WP	1	--		X		Wipe samples collected from Zone 3 Enclosure C/D
51	ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-P- LA	12/21/2022	1220	WP	1	--	X			
52	ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-L- LA	12/21/2022	1220	WP	1	--		X		
53	ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-P- LA	12/21/2022	1245	WP	1	--	X			
54	ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-L- LA	12/21/2022	1245	WP	1	--		X		
55	~~ARCH-C4W-DG-7 TO 7.5-221221-P-~~	~~12/21/2022~~		~~WP~~	~~1~~	~~--~~	~~X~~			
56	~~ARCH-C4W-DG-7 TO 7.5-221221-L-~~	~~12/21/2022~~		~~WP~~	~~1~~	~~--~~		~~X~~		
57	~~ARCH-C3W-EXT-7 TO 8-221221-P-~~	~~12/21/2022~~		~~WP~~	~~1~~	~~--~~	~~X~~			
58	~~ARCH-C3W-EXT-7 TO 8-221221-L-~~	~~12/21/2022~~		~~WP~~	~~1~~	~~--~~		~~X~~		
59	ARCH-C5W-EXT-8 TO 9-221221-P- WF	12/21/2022	1300	WP	1	--	X			
60	ARCH-C5W-EXT-8 TO 9-221221-L- WF	12/21/2022	1300	WP	1	--		X		

4k Rivet Type 1 = 0.0552 ft²

DW

DW

DW

DW

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		David Welsh	Rincon Consultants, Inc.	12/21/22 1435
[1] Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	12/21/22 14:38
[2] Relinquished By:	Audrey Hudson	"	"	12/21/22 17:02
[2] Received By:				12/22/22 12:00
[3] Relinquished By:		Jack Peterson	Enthalpy	12-21-22 17:47
[3] Received By:	Teresa Sylvester	Teresa Sylvester	EA	12/22/22 10:00

425536 475736

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 5 of 5

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

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Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

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Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott, M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
61	~~ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-221221-P-~~	12/21/2022		WP	1	--	X			TS
62	~~ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-22122 P-L-~~	12/21/2022		WP	1	--		X		TS
63	~~ARCH-C5W-DG-8 TO 9-DN-C5.7-VS-221221-P~~	12/21/2022		WP	1	--	X			TS
64	~~ARCH-C3W-DG-8 TO 9-DN-C5.7-VS-221221-L-~~	12/21/2022		WP	1	--		X		TS
65	221221-P-MEDBLANK1	12/21/2022	0735	WP	1	--	X			Collected from Low Occupancy zone of Hangar 1
66	221221-L-MEDBLANK1	12/21/2022	0735	WP	1	--		X		Collected from Low Occupancy zone of Hangar 1
67	221221-P-MEDBLANK2	12/21/2022	1255	WP	1	--	X			Collected from Low Occupancy zone of Hangar 1
68	221221-L-MEDBLANK2	12/21/2022	1255	WP	1	--		X		Collected from Low Occupancy zone of Hangar 1
69	~~ARRAY-C5W-MED-L3-UP-C5.2-~~	~~12/21/22~~	~~1325~~	~~WP~~	~~1~~	~~--~~	~~X~~			~~TS~~
70	~~VS-221221-P-EA~~									~~TS~~
71	~~ARRAY-C5W-MED~~									~~TS~~
72										
73										
74										
75										

Confirmation Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm2 basis

Report lead concentrations on a µg/ft2 basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure C/D

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Donald Welsh	Rincon Consultants, Inc.	12/21/22 1435
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY "	12/21/22 14:38
2 Relinquished By:	Audrey Hudson	"	"	12/21/22 17:00
2 Received By:		Mia cerrill via Jack Peterson		12/21/22 17:00
3 Relinquished By:		Jack Peterson	Enthalpy	12.21.22 19:47
3 Received By:	Vera Safronova	Geena Sylvestri	Ent.	12/22/22 10:00

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

475736 JJP

SAMPLE RECEIPT CHECKLIST ~~475536~~

Section 1: Login # ~~475744~~ Client: Rincon

Date Received: 122122 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 12.21.22 By (print) Jak Peterson (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: Sample 5 lid wasn't sealing well. Strong hexane odor. Transferred to new jar.

Date Logged in 12.21.22 **By (print)** JP for MY **(sign)** _____

Date Labeled 12.21.22 **By (print)** Jak Peterson **(sign)** _____

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 - NCTRA WP

Date Received: 12/22/22 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 4.1 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☑ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 0.9 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: DEC 22 2022

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C4W-INT-2.5 TO 3.5-221221-P-WF **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-001 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dil n Fac: 1.000 **Analyzed:** 12/23/22

475736-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-001 Surrogate	%REC	Limits
TCMX (PCB)	55	19-121
Decachlorobiphenyl (PCB)	51	19-121

Field ID: ARCH-C3W-INT-2.5 TO 3.5-221221-P-WF **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-003 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dil n Fac: 1.000 **Analyzed:** 12/23/22

475736-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-003 Surrogate	%REC	Limits
TCMX (PCB)	65	19-121
Decachlorobiphenyl (PCB)	59	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C4W-DG-3 TO 3.5-221221-P-FB **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-005 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-005 Surrogate	%REC	Limits
TCMX (PCB)	52	19-121
Decachlorobiphenyl (PCB)	49	19-121

Field ID: ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-P-LA **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-008 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-008 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-008 Surrogate	%REC	Limits
TCMX (PCB)	59	19-121
Decachlorobiphenyl (PCB)	53	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-P-DUP-LA **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-009 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-009 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-009 Surrogate	%REC	Limits
TCMX (PCB)	62	19-121
Decachlorobiphenyl (PCB)	53	19-121

Field ID: ARCH-C5W-DG-4 TO 4.5-221221-P-FB **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-011 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-011 Surrogate	%REC	Limits
TCMX (PCB)	56	19-121
Decachlorobiphenyl (PCB)	51	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C4W-EXT-4 TO 5-221221-P-WF **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-014 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dil n Fac: 1.000 **Analyzed:** 12/23/22

475736-014 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-014 Surrogate	%REC	Limits
TCMX (PCB)	47	19-121
Decachlorobiphenyl (PCB)	43	19-121

Field ID: ARCH-C5W-PS-4.5-221221-P-G **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-016 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dil n Fac: 1.000 **Analyzed:** 12/23/22

475736-016 Analyte	Result	RL	Units
Aroclor-1016	ND	0.49	ug/100 cm2
Aroclor-1221	ND	0.49	ug/100 cm2
Aroclor-1232	ND	0.49	ug/100 cm2
Aroclor-1242	ND	0.49	ug/100 cm2
Aroclor-1248	ND	0.49	ug/100 cm2
Aroclor-1254	ND	0.49	ug/100 cm2
Aroclor-1260	ND	0.49	ug/100 cm2
Aroclor-1262	ND	0.49	ug/100 cm2
Aroclor-1268	ND	0.49	ug/100 cm2

475736-016 Surrogate	%REC	Limits
TCMX (PCB)	74	19-121
Decachlorobiphenyl (PCB)	66	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-P-LA **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-018 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

DiIn Fac: 1.000 **Analyzed:** 12/23/22

475736-018 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-018 Surrogate	%REC	Limits
TCMX (PCB)	65	19-121
Decachlorobiphenyl (PCB)	59	19-121

Field ID: ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-P-LA **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-020 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

DiIn Fac: 1.000 **Analyzed:** 12/23/22

475736-020 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-020 Surrogate	%REC	Limits
TCMX (PCB)	71	19-121
Decachlorobiphenyl (PCB)	64	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-P-LA **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-022 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dil n Fac: 1.000 **Analyzed:** 12/23/22

475736-022 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-022 Surrogate	%REC	Limits
TCMX (PCB)	64	19-121
Decachlorobiphenyl (PCB)	53	19-121

Field ID: ARCH-C3W-INT-4.5 TO 5.5-221221-P-WF **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-024 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dil n Fac: 1.000 **Analyzed:** 12/23/22

475736-024 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-024 Surrogate	%REC	Limits
TCMX (PCB)	67	19-121
Decachlorobiphenyl (PCB)	63	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C4W-PS-5.5-221221-P-G **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-026 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

DiIn Fac: 1.000 **Analyzed:** 12/23/22

475736-026 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-026 Surrogate	%REC	Limits
TCMX (PCB)	59	19-121
Decachlorobiphenyl (PCB)	51	19-121

Field ID: ARCH-C3W-PS-5.5-221221-P-G **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-028 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

DiIn Fac: 1.000 **Analyzed:** 12/23/22

475736-028 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-028 Surrogate	%REC	Limits
TCMX (PCB)	57	19-121
Decachlorobiphenyl (PCB)	51	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-P-LA **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-030 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-030 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-030 Surrogate	%REC	Limits
TCMX (PCB)	56	19-121
Decachlorobiphenyl (PCB)	51	19-121

Field ID: ARCH-C5W-PS-6-221221-P-G **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-032 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-032 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-032 Surrogate	%REC	Limits
TCMX (PCB)	73	19-121
Decachlorobiphenyl (PCB)	62	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-DG-5.5 TO 6-UP-C3.3-HS-221221-P-LA **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-034 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-034 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-034 Surrogate	%REC	Limits
TCMX (PCB)	54	19-121
Decachlorobiphenyl (PCB)	44	19-121

Field ID: ARCH-C5W-DG-5.5 TO 6-221221-P-FB **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-036 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-036 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-036 Surrogate	%REC	Limits
TCMX (PCB)	66	19-121
Decachlorobiphenyl (PCB)	57	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-DG-6 TO 6.5-221221-P-FB **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-038 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-038 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-038 Surrogate	%REC	Limits
TCMX (PCB)	64	19-121
Decachlorobiphenyl (PCB)	53	19-121

Field ID: ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-P-LA **Batch#:** 303862 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-040 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-040 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-040 Surrogate	%REC	Limits
TCMX (PCB)	67	19-121
Decachlorobiphenyl (PCB)	58	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-EXT-6 TO 7-221221-P-WF **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-042 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dil n Fac: 1.000 **Analyzed:** 12/27/22

475736-042 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-042 Surrogate	%REC	Limits
TCMX (PCB)	67	19-121
Decachlorobiphenyl (PCB)	66	19-121

Field ID: ARCH-C5W-PS-6.5-221221-P-G **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-044 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dil n Fac: 1.000 **Analyzed:** 12/27/22

475736-044 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-044 Surrogate	%REC	Limits
TCMX (PCB)	74	19-121
Decachlorobiphenyl (PCB)	68	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-PS-6.5-221221-P-DUP-G **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-045 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dil Fac: 1.000 **Analyzed:** 12/27/22

475736-045 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-045 Surrogate	%REC	Limits
TCMX (PCB)	49	19-121
Decachlorobiphenyl (PCB)	45	19-121

Field ID: ARCH-C3W-PS-6.5-221221-P-G **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-047 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dil Fac: 1.000 **Analyzed:** 12/27/22

475736-047 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-047 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	68	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-P-LA **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-049 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/27/22

475736-049 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-049 Surrogate	%REC	Limits
TCMX (PCB)	63	19-121
Decachlorobiphenyl (PCB)	60	19-121

Field ID: ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-P-LA **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-051 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/27/22

475736-051 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-051 Surrogate	%REC	Limits
TCMX (PCB)	73	19-121
Decachlorobiphenyl (PCB)	71	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-EXT-8 TO 9-221221-P-WF **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-053 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/27/22

475736-053 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-053 Surrogate	%REC	Limits
TCMX (PCB)	56	19-121
Decachlorobiphenyl (PCB)	51	19-121

Field ID: 221221-P-MEDBLANK1 **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-055 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/27/22

475736-055 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-055 Surrogate	%REC	Limits
TCMX (PCB)	62	19-121
Decachlorobiphenyl (PCB)	55	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: 221221-P-MEDBLANK2 **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475736-057 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/27/22

475736-057 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475736-057 Surrogate	%REC	Limits
TCMX (PCB)	64	19-121
Decachlorobiphenyl (PCB)	61	19-121

Type: BLANK **Batch#:** 303862 **Analysis:** EPA 8082

Lab ID: QC1034023 **Prepared:** 12/22/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/23/22

Diln Fac: 1.000 **Prep:** EPA 3546

QC1034023 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1034023 Surrogate	%REC	Limits
TCMX (PCB)	76	19-121
Decachlorobiphenyl (PCB)	71	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BLANK **Batch#:** 303863 **Analysis:** EPA 8082

Lab ID: QC1034026 **Prepared:** 12/22/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/27/22

Dil'n Fac: 1.000 **Prep:** EPA 3546

QC1034026 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1034026 Surrogate	%REC	Limits
TCMX (PCB)	74	19-121
Decachlorobiphenyl (PCB)	82	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 303862 **Analysis:** EPA 8082

Lab ID: QC1034024 **Prepared:** 12/22/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/23/22

Diln Fac: 1.000 **Prep:** EPA 3546

QC1034024 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.465	89	60-140	ug/100 cm2
Aroclor-1260	5.000	4.211	84	60-140	ug/100 cm2

QC1034024 Surrogate	%REC	Limits
TCMX (PCB)	82	19-121
Decachlorobiphenyl (PCB)	81	19-121

Type: BSD **Batch#:** 303862 **Analysis:** EPA 8082

Lab ID: QC1034025 **Prepared:** 12/22/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/23/22

Diln Fac: 1.000 **Prep:** EPA 3546

QC1034025 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.929	79	60-140	ug/100 cm2	13	20
Aroclor-1260	5.000	3.557	71	60-140	ug/100 cm2	17	20

QC1034025 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	69	19-121

Legend

RPD: Relative Percent Difference

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 303863 **Analysis:** EPA 8082

Lab ID: QC1034027 **Prepared:** 12/22/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/27/22

Diln Fac: 1.000 **Prep:** EPA 3546

QC1034027 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.502	90	60-140	ug/100 cm2
Aroclor-1260	5.000	4.199	84	60-140	ug/100 cm2

QC1034027 Surrogate	%REC	Limits
TCMX (PCB)	82	19-121
Decachlorobiphenyl (PCB)	76	19-121

Type: BSD **Batch#:** 303863 **Analysis:** EPA 8082

Lab ID: QC1034028 **Prepared:** 12/22/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/27/22

Diln Fac: 1.000 **Prep:** EPA 3546

QC1034028 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	5.198	104	60-140	ug/100 cm2	14	20
Aroclor-1260	5.000	4.895	98	60-140	ug/100 cm2	15	20

QC1034028 Surrogate	%REC	Limits
TCMX (PCB)	96	19-121
Decachlorobiphenyl (PCB)	94	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C4W-INT-2.5 TO 3.5-221221-L-WF **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-002 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-002 Analyte	Result	RL	Units	Qual
Lead	**160**	0.25	ug/ft2	b

Field ID: ARCH-C3W-INT-2.5 TO 3.5-221221-L-WF **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-004 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-004 Analyte	Result	RL	Units	Qual
Lead	**96**	0.25	ug/ft2	b

Field ID: ARCH-C4W-DG-3 TO 3.5-221221-L-FB **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-006 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-006 Analyte	Result	RL	Units	Qual
Lead	**27**	0.25	ug/ft2	b

Field ID: ARCH-C4W-DG-3 TO 3.5-221221-L-DUP-FB **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-007 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-007 Analyte	Result	RL	Units	Qual
Lead	**38**	0.25	ug/ft2	b

Field ID: ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-L-LA **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-010 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-010 Analyte	Result	RL	Units	Qual
Lead	**93**	0.25	ug/ft2	b

ENTHALPY ANALYTICAL

Lead

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-DG-4 TO 4.5-221221-L-FB **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-012 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-012 Analyte	Result	RL	Units	Qual
Lead	**59**	0.25	ug/ft2	b

Field ID: ARCH-C5W-DG-4 TO 4.5-221221-L-DUP-FB **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-013 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-013 Analyte	Result	RL	Units	Qual
Lead	**77**	0.25	ug/ft2	b

Field ID: ARCH-C4W-EXT-4 TO 5-221221-L-WF **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-015 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-015 Analyte	Result	RL	Units	Qual
Lead	**28**	0.25	ug/ft2	b

Field ID: ARCH-C5W-PS-4.5-221221-L-G **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-017 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-017 Analyte	Result	RL	Units	Qual
Lead	**100**	0.22	ug/ft2	b

Field ID: ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-L-LA **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-019 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-019 Analyte	Result	RL	Units	Qual
Lead	**170**	0.25	ug/ft2	b

ENTHALPY ANALYTICAL

Lead

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-L-LA **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-021 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475736-021 Analyte	Result	RL	Units	Qual
Lead	**35**	0.25	ug/ft2	b

Field ID: ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-L-LA **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-023 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475736-023 Analyte	Result	RL	Units	Qual
Lead	**58**	0.25	ug/ft2	b

Field ID: ARCH-C3W-INT-4.5 TO 5.5-221221-L-WF **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-025 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475736-025 Analyte	Result	RL	Units	Qual
Lead	**210**	0.25	ug/ft2	b

Field ID: ARCH-C4W-PS-5.5-221221-L-G **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-027 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475736-027 Analyte	Result	RL	Units	Qual
Lead	**96**	0.22	ug/ft2	b

Field ID: ARCH-C3W-PS-5.5-221221-L-G **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-029 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475736-029 Analyte	Result	RL	Units	Qual
Lead	**84**	0.23	ug/ft2	b

ENTHALPY ANALYTICAL

Lead

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-L-LA **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-031 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475736-031 Analyte	Result	RL	Units	Qual
Lead	**580**	0.25	ug/ft2	b

Field ID: ARCH-C5W-PS-6-221221-L-G **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-033 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475736-033 Analyte	Result	RL	Units	Qual
Lead	**100**	0.22	ug/ft2	b

Field ID: ARCH-C3W-DG-5.5 TO 6-UP-C3.3-HS-221221-L-LA **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-035 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475736-035 Analyte	Result	RL	Units	Qual
Lead	**100**	0.25	ug/ft2	b

Field ID: ARCH-C5W-DG-5.5 TO 6-221221-L-FB **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-037 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475736-037 Analyte	Result	RL	Units	Qual
Lead	**48**	0.25	ug/ft2	b

Field ID: ARCH-C5W-DG-6 TO 6.5-221221-L-FB **Batch#:** 303906 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-039 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475736-039 Analyte	Result	RL	Units	Qual
Lead	**100**	0.25	ug/ft2	b

ENTHALPY ANALYTICAL

Lead

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-L-LA **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-041 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-041 Analyte	Result	RL	Units	Qual
Lead	**200**	0.25	ug/ft2	b

Field ID: ARCH-C3W-EXT-6 TO 7-221221-L-WF **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-043 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-043 Analyte	Result	RL	Units	Qual
Lead	**270**	0.25	ug/ft2	b

Field ID: ARCH-C5W-PS-6.5-221221-L-G **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-046 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-046 Analyte	Result	RL	Units	Qual
Lead	**93**	0.24	ug/ft2	b

Field ID: ARCH-C3W-PS-6.5-221221-L-G **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-048 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-048 Analyte	Result	RL	Units	Qual
Lead	**77**	0.25	ug/ft2	b

Field ID: ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-L-LA **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-050 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-050 Analyte	Result	RL	Units	Qual
Lead	**92**	0.25	ug/ft2	b

ENTHALPY ANALYTICAL

Lead

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-L-LA **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-052 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-052 Analyte	Result	RL	Units	Qual
Lead	**64**	0.25	ug/ft2	b

Field ID: ARCH-C5W-EXT-8 TO 9-221221-L-WF **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-054 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-054 Analyte	Result	RL	Units	Qual
Lead	**750**	0.25	ug/ft2	b

Field ID: 221221-L-MEDBLANK1 **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-056 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-056 Analyte	Result	RL	Units	Qual
Lead	**5.1**	0.25	ug/ft2	b

Field ID: 221221-L-MEDBLANK2 **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475736-058 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475736-058 Analyte	Result	RL	Units	Qual
Lead	**2.8**	0.25	ug/ft2	b

Type: BLANK **Batch#:** 303906 **Analysis:** EPA 6010B
Lab ID: QC1034203 **Prepared:** 12/23/22 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 12/23/22
Diln Fac: 1.000 **Prep:** EPA 3050B

QC1034203 Analyte	Result	RL	Units	Qual
Lead	ND	0.25	ug/ft2	b

ENTHALPY ANALYTICAL

Lead

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type:	BLANK	**Batch#:**	303908	**Analysis:**	EPA 6010B
Lab ID:	QC1034212	**Prepared:**	12/23/22	**Analyst:**	SBW
Matrix:	Wipe	**Analyzed:**	12/23/22		
DiIn Fac:	1.000	**Prep:**	EPA 3050B		

QC1034212 Analyte	Result	RL	Units	Qual
Lead	ND	0.25	ug/ft2	b

Legend

ND: Not Detected

RL: Reporting Limit

b: See narrative

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 475736 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 303906 **Analysis:** EPA 6010B
Lab ID: QC1034204 **Prepared:** 12/23/22 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 12/23/22
Dln Fac: 1.000 **Prep:** EPA 3050B

QC1034204 Analyte	Spiked	Result	%REC	Limits	Units	Qual
Lead	100.0	104.0	104	80-120	ug/ft2	b

Type: BS **Batch#:** 303908 **Analysis:** EPA 6010B
Lab ID: QC1034213 **Prepared:** 12/23/22 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 12/23/22
Dln Fac: 1.000 **Prep:** EPA 3050B

QC1034213 Analyte	Spiked	Result	%REC	Limits	Units	Qual
Lead	100.0	104.8	105	80-120	ug/ft2	b

Type: BSD **Batch#:** 303906 **Analysis:** EPA 6010B
Lab ID: QC1034205 **Prepared:** 12/23/22 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 12/23/22
Dln Fac: 1.000 **Prep:** EPA 3050B

QC1034205 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
Lead	100.0	102.6	103	80-120	ug/ft2	1	20	b

Type: BSD **Batch#:** 303908 **Analysis:** EPA 6010B
Lab ID: QC1034214 **Prepared:** 12/23/22 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 12/23/22
Dln Fac: 1.000 **Prep:** EPA 3050B

QC1034214 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
Lead	100.0	103.5	103	80-120	ug/ft2	1	20	b

Legend

RPD: Relative Percent Difference

b: See narrative

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 475743
Report Level: IV
Report Date: 12/30/2022

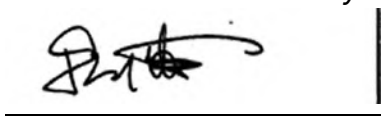
PCBs

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	475743
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	12/21/22

Sample ID	Lab ID	Collected	Matrix
ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-LA	475743-001	12/21/22 08:10	Wipe
ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-DUP-LA	475743-002	12/21/22 08:10	Wipe
ARCH-C3W-DG-2 TO 2.5-221221-P-FB	475743-004	12/21/22 07:35	Wipe
ARCH-C4W-DG-2 TO 2.5-221221-P-FB	475743-007	12/21/22 08:00	Wipe
ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-LA	475743-010	12/21/22 07:50	Wipe
ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-DUP-LA	475743-011	12/21/22 07:50	Wipe
ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-P-LA	475743-013	12/21/22 08:40	Wipe

ENTHALPY ANALYTICAL

Case Narrative

PCBS (EPA 8082)

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 475743 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 12/21/22

This data package contains sample and QC results for seven wipe samples, requested for the above referenced project on 12/22/22. See attached cooler receipt form for any sample receipt problems or discrepancies.

PCBs (EPA 8082):

No analytical problems were encountered.

Chain of Custody

475743

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (PB)	custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level IV

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott, M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 3546/8082	Lead by EPA Method 3050M/6010B							HOLD	Test Instructions / Comments
1	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-LA	12/21/2022	0810	WP	1		X									**Confirmation Wipe Samples - Level IV Report/Stage 3 Validation**
2	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-DUP-LA	12/21/2022	0810	WP	1		X									Report PCB concentrations on a µg/100cm2 basis
3	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-L-LA	12/21/2022	0810	WP	1			X								Report lead concentrations on a µg/ft2 basis
4	ARCH-C3W-DG-2 TO 2.5-221221-P-FB	12/21/2022	0735	WP	1		X									Report Aroclor 1268 concentrations in addition to the standard Aroclors
5	ARCH-C3W-DG-2 TO 2.5-221221-L-FB	12/21/2022	0735	WP	1			X								Wipe samples collected from Zone 3 Enclosure C/D
6	ARCH-C3W-DG-2 TO 2.5-221221-L-DUP-FB	12/21/2022	0735	WP	1			X								
7	ARCH-C4W-DG-2 TO 2.5-221221-P-FB	12/21/2022	0800	WP	1		X									
8	ARCH-C4W-DG-2 TO 2.5-221221-L-FB	12/21/2022	0800	WP	1			X								
9	ARCH-C4W-DG-2 TO 2.5-221221-L-DUP-FB	12/21/2022	0800	WP	1			X								
10	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-LA	12/21/2022	0750	WP	1		X									
11	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-DUP-LA	12/21/2022	0750	WP	1		X									
12	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-L-LA	12/21/2022	0750	WP	1			X								2xRivet Type 2 = 0.0200ft2
13	ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-P-LA	12/21/2022	0840	WP	1		X									
14	ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-L-LA	12/21/2022	0840	WP	1			X								1xRivet Type 2 = 0.0100ft2
15																

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Donald Welsh	Rincon Consultants, Inc.	12/21/22 1435
[1] Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY "	12/21/22 14:38
[2] Relinquished By:	Audrey Hudson	"	"	12/21/22 17:00
[2] Received By:		Jake Peterson	EA	12/21/22 17:00
[3] Relinquished By:				12.21.22 17:49
[3] Received By:	Geena Sylvestri	Geena Sylvestri	Enthalpy EA	12/22/22 10:00

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA, therefore no custody seals were applied to the cooler.

JJP

SAMPLE RECEIPT CHECKLIST 475743

Section 1: Login # 475744 Client: Rincon

Date Received: 122122 Project: _____

ENTHALPY

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No (**skip Section 3 below**)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 12.21.22 By (print) Jak Peterson (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 12.21.22 **By (print)** JP for MY **(sign)** _____

Date Labeled 12.21.22 **By (print)** Jak Peterson **(sign)** _____

Enthalpy Analytical - Berkeley Rev.15.1, 09/13/2019

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants

Project: Hangar 1 - NCTRA WP

Date Received: 12/22/22

Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2)

Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 4.1 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☑ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 0.9 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?		✔	
If custody seals are present, were they intact?			✔
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?	✔		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: DEC 22 2022

Results & QC Summary

Enthalpy Analytical - Orange Analytical Report

Lab #: 475743 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-LA **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475743-001 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/27/22

475743-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475743-001 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	74	19-121

Field ID: ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-DUP-LA **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475743-002 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/27/22

475743-002 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475743-002 Surrogate	%REC	Limits
TCMX (PCB)	71	19-121
Decachlorobiphenyl (PCB)	67	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475743 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-DG-2 TO 2.5-221221-P-FB **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475743-004 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dilln Fac: 1.000 **Analyzed:** 12/27/22

475743-004 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475743-004 Surrogate	%REC	Limits
TCMX (PCB)	55	19-121
Decachlorobiphenyl (PCB)	54	19-121

Field ID: ARCH-C4W-DG-2 TO 2.5-221221-P-FB **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475743-007 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Dilln Fac: 1.000 **Analyzed:** 12/27/22

475743-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475743-007 Surrogate	%REC	Limits
TCMX (PCB)	70	19-121
Decachlorobiphenyl (PCB)	67	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475743 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-LA **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475743-010 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/27/22

475743-010 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475743-010 Surrogate	%REC	Limits
TCMX (PCB)	57	19-121
Decachlorobiphenyl (PCB)	56	19-121

Field ID: ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-DUP-LA **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475743-011 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

Diln Fac: 1.000 **Analyzed:** 12/27/22

475743-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475743-011 Surrogate	%REC	Limits
TCMX (PCB)	61	19-121
Decachlorobiphenyl (PCB)	60	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 475743 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-P-LA **Batch#:** 303863 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 8082

Lab ID: 475743-013 **Received:** 12/21/22 **Analyst:** MES

Matrix: Wipe **Prepared:** 12/22/22

DiIn Fac: 1.000 **Analyzed:** 12/27/22

475743-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

475743-013 Surrogate	%REC	Limits
TCMX (PCB)	54	19-121
Decachlorobiphenyl (PCB)	58	19-121

Type: BLANK **Batch#:** 303863 **Analysis:** EPA 8082

Lab ID: QC1034026 **Prepared:** 12/22/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/27/22

DiIn Fac: 1.000 **Prep:** EPA 3546

QC1034026 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1034026 Surrogate	%REC	Limits
TCMX (PCB)	74	19-121
Decachlorobiphenyl (PCB)	82	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 475743 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 303863 **Analysis:** EPA 8082

Lab ID: QC1034027 **Prepared:** 12/22/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/27/22

Diln Fac: 1.000 **Prep:** EPA 3546

QC1034027 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.502	90	60-140	ug/100 cm2
Aroclor-1260	5.000	4.199	84	60-140	ug/100 cm2

QC1034027 Surrogate	%REC	Limits
TCMX (PCB)	82	19-121
Decachlorobiphenyl (PCB)	76	19-121

Type: BSD **Batch#:** 303863 **Analysis:** EPA 8082

Lab ID: QC1034028 **Prepared:** 12/22/22 **Analyst:** MES

Matrix: Wipe **Analyzed:** 12/27/22

Diln Fac: 1.000 **Prep:** EPA 3546

QC1034028 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	5.198	104	60-140	ug/100 cm2	14	20
Aroclor-1260	5.000	4.895	98	60-140	ug/100 cm2	15	20

QC1034028 Surrogate	%REC	Limits
TCMX (PCB)	96	19-121
Decachlorobiphenyl (PCB)	94	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY INITIAL CALIBRATION FOR 475743 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_102422014	452428510014		24-OCT-2022 17:26	S17263
L2	gc06_102422015	452428510015		24-OCT-2022 17:44	S17264
L3	gc06_102422016	452428510016		24-OCT-2022 18:02	S17265
L4	gc06_102422017	452428510017		24-OCT-2022 18:20	S17266
L5	gc06_102422018	452428510018		24-OCT-2022 18:38	S17267
L6	gc06_102422019	452428510019		24-OCT-2022 18:55	S17268
L7	gc06_102422020	452428510020		24-OCT-2022 19:13	S17269
L8	gc06_102422021	452428510021		24-OCT-2022 19:31	S17270
L9	gc06_102422022	452428510022		24-OCT-2022 19:49	S17271

Analyte	Ch	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG		47.6898		0.0210		15	9	.99	20	
Aroclor-1016 Peak # 2	A	LINR	-15.389	23.9841		0.0490	0.997		7	.99	20	
Aroclor-1016 Peak # 3	A	AVRG		18.8095		0.0532		15	9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG		24.7311		0.0404		14	9	.99	20	
Aroclor-1016 Peak # 5	A	AVRG		30.7045		0.0326		15	9	.99	20	
Aroclor-1260 Peak # 1	A	AVRG		14.7882		0.0676		18	8	.99	20	
Aroclor-1260 Peak # 2	A	AVRG		9.70243		0.1031		17	8	.99	20	
Aroclor-1260 Peak # 3	A	AVRG		9.28268		0.1077		17	8	.99	20	
Aroclor-1260 Peak # 4	A	LINR	-15.439	17.5746		0.0643	0.998		7	.99	20	
Aroclor-1260 Peak # 5	A	LINR	-18.106	8.33830		0.1368	0.999		8	.99	20	
Decachlorobiphenyl (PCB)	A	LINR	-4.3231	0.82496		1.4080	0.999		6	.99	20	
TCMX (PCB)	A	AVRG		1.03996		0.9616		13	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG		48.1076		0.0208		13	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG		33.3260		0.0300		14	9	.99	20	
Aroclor-1016 Peak # 3	B	AVRG		18.3412		0.0545		16	9	.99	20	
Aroclor-1016 Peak # 4	B	AVRG		25.6912		0.0389		12	9	.99	20	
Aroclor-1016 Peak # 5	B	AVRG		31.6065		0.0316		13	9	.99	20	
Aroclor-1260 Peak # 1	B	AVRG		16.8009		0.0595		14	8	.99	20	
Aroclor-1260 Peak # 2	B	AVRG		13.9830		0.0715		15	8	.99	20	
Aroclor-1260 Peak # 3	B	AVRG		11.0470		0.0905		16	8	.99	20	
Aroclor-1260 Peak # 4	B	LINR	-23.653	20.1271		0.0597	0.996		7	.99	20	
Aroclor-1260 Peak # 5	B	LINR	-18.665	13.2930		0.0873	0.999		8	.99	20	
Decachlorobiphenyl (PCB)	B	LINR	-2.1138	0.98301		1.2084	0.999		8	.99	20	
TCMX (PCB)	B	AVRG		1.04112		0.9605		10	9	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)
AVRG: Average response factor
LINR: Linear regression

ENTHALPY INITIAL CALIBRATION FOR 475743 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF
Aroclor-1016 Peak # 1	A	0.0275	0.0229	0.0229	0.0213	0.0183	0.0203	0.0197	0.0189	0.0170
Aroclor-1016 Peak # 2	A	0.0705	0.0493	0.0498	0.0471	0.0402	0.0443	0.0419		
Aroclor-1016 Peak # 3	A	0.0694	0.0572	0.0577	0.0553	0.0469	0.0521	0.0499	0.0477	0.0422
Aroclor-1016 Peak # 4	A	0.0506	0.0443	0.0443	0.0420	0.0361	0.0399	0.0381	0.0367	0.0320
Aroclor-1016 Peak # 5	A	0.0417	0.0355	0.0355	0.0335	0.0292	0.0321	0.0306	0.0296	0.0253
Aroclor-1260 Peak # 1	A	0.0937	0.0726	0.0712	0.0675	0.0578	0.0620	0.0600	0.0564	
Aroclor-1260 Peak # 2	A	0.1377	0.1100	0.1119	0.1048	0.0901	0.0941	0.0896	0.0864	
Aroclor-1260 Peak # 3	A	0.1494	0.1089	0.1140	0.1083	0.0928	0.0997	0.0955	0.0931	
Aroclor-1260 Peak # 4	A	0.0776	0.0657	0.0680	0.0657	0.0561	0.0598	0.0571		
Aroclor-1260 Peak # 5	A	0.1719	0.1443	0.1523	0.1392	0.1178	0.1263	0.1212	0.1213	
Decachlorobiphenyl (PCB)	A			1.7517	1.5276	1.3136	1.3325	1.2692	1.2537	
TCMX (PCB)	A	1.2724	0.9655	0.9830	0.9621	0.8303	0.9420	0.9219	0.9218	0.8552
Aroclor-1016 Peak # 1	B	0.0258	0.0224	0.0221	0.0217	0.0189	0.0208	0.0199	0.0188	0.0168
Aroclor-1016 Peak # 2	B	0.0369	0.0328	0.0337	0.0319	0.0262	0.0293	0.0282	0.0270	0.0241
Aroclor-1016 Peak # 3	B	0.0731	0.0591	0.0595	0.0548	0.0476	0.0526	0.0506	0.0504	0.0429
Aroclor-1016 Peak # 4	B	0.0470	0.0426	0.0424	0.0410	0.0348	0.0383	0.0370	0.0362	0.0311
Aroclor-1016 Peak # 5	B	0.0389	0.0336	0.0345	0.0334	0.0285	0.0314	0.0302	0.0296	0.0248
Aroclor-1260 Peak # 1	B	0.0741	0.0638	0.0673	0.0608	0.0510	0.0551	0.0527	0.0514	
Aroclor-1260 Peak # 2	B	0.0910	0.0798	0.0790	0.0726	0.0608	0.0651	0.0625	0.0613	
Aroclor-1260 Peak # 3	B	0.1187	0.0977	0.0986	0.0907	0.0769	0.0826	0.0797	0.0793	
Aroclor-1260 Peak # 4	B	0.0785	0.0629	0.0647	0.0583	0.0503	0.0539	0.0496		
Aroclor-1260 Peak # 5	B	0.1184	0.0925	0.0953	0.0868	0.0743	0.0790	0.0760	0.0762	
Decachlorobiphenyl (PCB)	B	1.6271	1.2663	1.3495	1.2170	1.0610	1.0826	1.0310	1.0324	
TCMX (PCB)	B	1.1603	0.9978	0.9817	0.9671	0.8301	0.9599	0.9328	0.9461	0.8687

ENTHALPY INITIAL CALIBRATION FOR 475743 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A	20.000	**31**	50.000	9	100.00	9	250.00	1	500.00	-13	749.91	-3	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 2	A	20.000	-8	50.000	-12	100.00	4	250.00	7	500.00	-7	749.91	4	1000.0	-1		
Aroclor-1016 Peak # 3	A	20.000	**31**	50.000	8	100.00	9	250.00	4	500.00	-12	749.91	-2	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 4	A	20.000	**25**	50.000	10	100.00	10	250.00	4	500.00	-11	749.91	-1	1000.0	-6	1500.0	-9
Aroclor-1016 Peak # 5	A	20.000	**28**	50.000	9	100.00	9	250.00	3	500.00	-10	749.91	-1	1000.0	-6	1500.0	-9
Aroclor-1260 Peak # 1	A	20.000	**38**	50.000	7	100.00	5	250.00	0	500.00	-15	749.91	-8	1000.0	-11	1500.0	-17
Aroclor-1260 Peak # 2	A	20.000	**34**	50.000	7	100.00	9	250.00	2	500.00	-13	749.91	-9	1000.0	-13	1500.0	-16
Aroclor-1260 Peak # 3	A	20.000	**39**	50.000	1	100.00	6	250.00	1	500.00	-14	749.91	-7	1000.0	-11	1500.0	-14
Aroclor-1260 Peak # 4	A	20.000	**-41**	50.000	-15	100.00	4	250.00	9	500.00	-4	749.91	3	1000.0	-1		
Aroclor-1260 Peak # 5	A	20.000	**-47**	50.000	-16	100.00	9	250.00	9	500.00	-5	749.91	3	1000.0	-1	1500.0	0
Decachlorobiphenyl (PCB)	A					8.0000	-10	20.000	4	40.000	-2	59.993	3	80.000	-1	120.00	0
TCMX (PCB)	A	1.6000	**32**	4.0000	0	8.0000	2	20.000	0	40.000	-14	59.993	-2	80.000	-4	120.00	-4
Aroclor-1016 Peak # 1	B	20.000	**24**	50.000	8	100.00	6	250.00	4	500.00	-9	749.91	0	1000.0	-4	1500.0	-10
Aroclor-1016 Peak # 2	B	20.000	**23**	50.000	9	100.00	12	250.00	6	500.00	-13	749.91	-2	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 3	B	20.000	**34**	50.000	8	100.00	9	250.00	1	500.00	-13	749.91	-4	1000.0	-7	1500.0	-8
Aroclor-1016 Peak # 4	B	20.000	**21**	50.000	9	100.00	9	250.00	5	500.00	-11	749.91	-2	1000.0	-5	1500.0	-7
Aroclor-1016 Peak # 5	B	20.000	**23**	50.000	6	100.00	9	250.00	5	500.00	-10	749.91	-1	1000.0	-5	1500.0	-6
Aroclor-1260 Peak # 1	B	20.000	**24**	50.000	7	100.00	13	250.00	2	500.00	-14	749.91	-7	1000.0	-11	1500.0	-14
Aroclor-1260 Peak # 2	B	20.000	**27**	50.000	12	100.00	11	250.00	2	500.00	-15	749.91	-9	1000.0	-13	1500.0	-14
Aroclor-1260 Peak # 3	B	20.000	**31**	50.000	8	100.00	9	250.00	0	500.00	-15	749.91	-9	1000.0	-12	1500.0	-12
Aroclor-1260 Peak # 4	B	20.000	**-60**	50.000	**-21**	100.00	7	250.00	8	500.00	-4	749.91	5	1000.0	-3		
Aroclor-1260 Peak # 5	B	20.000	**-36**	50.000	-14	100.00	8	250.00	8	500.00	-5	749.91	3	1000.0	-1	1500.0	0
Decachlorobiphenyl (PCB)	B	1.6000	**-72**	4.0000	**-28**	8.0000	6	20.000	9	40.000	-1	59.993	3	80.000	-1	120.00	0
TCMX (PCB)	B	1.6000	**21**	4.0000	4	8.0000	2	20.000	1	40.000	-14	59.993	0	80.000	-3	120.00	-1

ENTHALPY INITIAL CALIBRATION FOR 475743 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L9	%D
Aroclor-1016 Peak # 1	A	2000.0	-19
Aroclor-1016 Peak # 2	A		
Aroclor-1016 Peak # 3	A	2000.0	**-21**
Aroclor-1016 Peak # 4	A	2000.0	**-21**
Aroclor-1016 Peak # 5	A	2000.0	**-22**
Aroclor-1260 Peak # 1	A		
Aroclor-1260 Peak # 2	A		
Aroclor-1260 Peak # 3	A		
Aroclor-1260 Peak # 4	A		
Aroclor-1260 Peak # 5	A		
Decachlorobiphenyl (PCB)	A		
TCMX (PCB)	A	160.00	-11
Aroclor-1016 Peak # 1	B	2000.0	-19
Aroclor-1016 Peak # 2	B	2000.0	-20
Aroclor-1016 Peak # 3	B	2000.0	**-21**
Aroclor-1016 Peak # 4	B	2000.0	-20
Aroclor-1016 Peak # 5	B	2000.0	**-22**
Aroclor-1260 Peak # 1	B		
Aroclor-1260 Peak # 2	B		
Aroclor-1260 Peak # 3	B		
Aroclor-1260 Peak # 4	B		
Aroclor-1260 Peak # 5	B		
Decachlorobiphenyl (PCB)	B		
TCMX (PCB)	B	160.00	-10

TRN 10/26/22 : Manually integrated for coeluting peak/draw baseline on both channel for multiple channels

Analyst: TRN 10/26/22

Reviewer: LW 10/27/22

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 475743 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Name:	PCB_102422_1
Calnum:	452428510002	Cal Date:	24-OCT-2022

- ICV 452428510024 (gc06_102422024 24-OCT-2022) stds: S17274

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	486.9	ug/L	-3	15	
Aroclor-1260	A	500.0	451.5	ug/L	-10	15	
Aroclor-1016	B	500.0	481.3	ug/L	-4	15	
Aroclor-1260	B	500.0	455.3	ug/L	-9	15	

-

Analyst: TRN 10/26/22 **Reviewer:** LW 10/27/22

ENTHALPY CONTINUING CALIBRATION FOR 475743 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06			IDF:	1.0
Seqnum:	452520427004.1	File:	gc06_122722004	Time:	27-DEC-2022 10:24
Cal:	452428510002	Caldate:	24-OCT-2022		

Standards: S17386

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	518.0	ug/L	4	15	0.0000	
Aroclor-1260	A			500.0	517.4	ug/L	3	15	0.0000	
Decachlorobiphenyl (PCB)	A	1.4080	2.0389	40.00	62.96	ug/L	**57**	15	0.0000	c+
TCMX (PCB)	A	0.9616	0.9766	40.00	40.63	ug/L	2	15	0.0000	
Aroclor-1016	B			500.0	554.6	ug/L	11	15	0.0000	
Aroclor-1260	B			500.0	500.4	ug/L	0	15	0.0000	
Decachlorobiphenyl (PCB)	B	1.2084	1.6043	40.00	60.97	ug/L	**52**	15	0.0000	c+
TCMX (PCB)	B	0.9605	0.9607	40.00	40.01	ug/L	0	15	0.0000	

ISTD (ICAL gc06_102422015)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	4414084	6120897	38.67
1-bromo-2-nitrobenzene (PCB)	A	1096423	1313242	19.78

+=high bias c=CCV

Analyst: MES 12/28/22 *

Reviewer: LW 12/30/22

Enthalpy Internal Standard Summary for Sequence 452520427

Date:	12/27/22	Reference:	gc06_102422015
Sequence:	SVOA-GC06 gc06_122722	Analyzed:	10/24/22 17:44

#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		ICAL STD	4414084	1096423
		LOWER LIMIT	2207042	548212
		UPPER LIMIT	8828169	2192847
004	CCV		6120897	1313242

Enthalpy Internal Standard Summary for Sequence 452520427

Date:	12/27/22	Reference:	gc06_122722004
Sequence:	SVOA-GC06 gc06_122722	Analyzed:	12/27/22 10:24

#	Type	Sample ID	1BR2NITROBZPCB B	1BR2NITROBZPCB A
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	6120897	1313242
		LOWER LIMIT	3060449	656621
		UPPER LIMIT	12241794	2626483
012	BLANK	QC1034026	4481737	908127
013	BS	QC1034027	5264933	1069699
014	BSD	QC1034028	5397375	1120827
015	SAMPLE	475736-042	4303615	900809
016	SAMPLE	475736-044	5449756	1092807
017	SAMPLE	475736-045	5160693	1069069
018	SAMPLE	475736-047	6109043	1253810
019	SAMPLE	475736-049	6208537	1276642
020	SAMPLE	475736-051	5620863	1183649
021	SAMPLE	475736-053	5659326	1153382
022	SAMPLE	475736-055	7035318	1419408
023	SAMPLE	475736-057	5810623	1179727
024	SAMPLE	475743-001	5620774	1200750
025	SAMPLE	475743-002	6061448	1204110
026	SAMPLE	475743-004	5728295	1086030
027	SAMPLE	475743-007	5542573	1130236
028	SAMPLE	475743-010	5313763	1139944
029	SAMPLE	475743-011	5522859	1080579
030	SAMPLE	475743-013	5258596	1142577
031	SAMPLE	475744-001	6869192	1321988
032	SAMPLE	475744-003	7556531	1466607

Enthalpy Internal Standard Summary for Sequence 452520427

Date: 12/27/22 Reference: gc06_122722004
Sequence: SVOA-GC06 gc06_122722 Analyzed: 12/27/22 10:24

#	Type	Sample ID	1BR2NITROBZPCB B RT	1BR2NITROBZPCB A RT
		CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV STD	4.42	4.18
		LOWER LIMIT	4.22	3.98
		UPPER LIMIT	4.62	4.38
012	BLANK	QC1034026	4.42	4.18
013	BS	QC1034027	4.42	4.18
014	BSD	QC1034028	4.42	4.18
015	SAMPLE	475736-042	4.42	4.18
016	SAMPLE	475736-044	4.42	4.18
017	SAMPLE	475736-045	4.42	4.18
018	SAMPLE	475736-047	4.42	4.18
019	SAMPLE	475736-049	4.42	4.18
020	SAMPLE	475736-051	4.42	4.18
021	SAMPLE	475736-053	4.42	4.18
022	SAMPLE	475736-055	4.42	4.18
023	SAMPLE	475736-057	4.42	4.18
024	SAMPLE	475743-001	4.42	4.18
025	SAMPLE	475743-002	4.42	4.18
026	SAMPLE	475743-004	4.42	4.18
027	SAMPLE	475743-007	4.42	4.18
028	SAMPLE	475743-010	4.42	4.18
029	SAMPLE	475743-011	4.42	4.18
030	SAMPLE	475743-013	4.42	4.18
031	SAMPLE	475744-001	4.42	4.18
032	SAMPLE	475744-003	4.42	4.18

Enthalpy Sequence Summary for Sequence 452428510

Instrument: SVOA-GC06 Begun: 10/24/22 13:50
Method: EPA 8081A, EPA 8082

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	gc06_102422002	PEM				10/24/22 13:50	1.0	
003	gc06_102422003	ICAL				10/24/22 14:08	1.0	1
004	gc06_102422004	ICAL				10/24/22 14:26	1.0	2
005	gc06_102422005	ICAL				10/24/22 14:44	1.0	3
006	gc06_102422006	ICAL				10/24/22 15:02	1.0	4
007	gc06_102422007	ICAL				10/24/22 15:20	1.0	5
008	gc06_102422008	ICAL				10/24/22 15:38	1.0	6
009	gc06_102422009	ICAL				10/24/22 15:56	1.0	7
010	gc06_102422010	ICAL				10/24/22 16:14	1.0	8
012	gc06_102422012	ICV				10/24/22 16:50	1.0	9
014	gc06_102422014	ICAL				10/24/22 17:26	1.0	10
015	gc06_102422015	ICAL				10/24/22 17:44	1.0	11
016	gc06_102422016	ICAL				10/24/22 18:02	1.0	12
017	gc06_102422017	ICAL				10/24/22 18:20	1.0	13
018	gc06_102422018	ICAL				10/24/22 18:38	1.0	14
019	gc06_102422019	ICAL				10/24/22 18:55	1.0	15
020	gc06_102422020	ICAL				10/24/22 19:13	1.0	16
021	gc06_102422021	ICAL				10/24/22 19:31	1.0	17
022	gc06_102422022	ICAL				10/24/22 19:49	1.0	18
024	gc06_102422024	ICV				10/24/22 20:25	1.0	19

TRN 10/26/22 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 2 through 24.

Standards Used:
1=S17239 2=S17240 3=S17241 4=S17242 5=S17243 6=S17244 7=S17245 8=S17246 9=S17235 10=S17263 11=S17264 12=S17265 13=S17266 14=S17267 15=S17268 16=S17269 17=S17270 18=S17271 19=S17274

Enthalpy Sequence Summary for Sequence 452520427

Instrument: SVOA-GC06 Begun: 12/27/22 09:47
Method: EPA 8081A, EPA 8082

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used
002	gc06_122722002	PEM				12/27/22 09:47	1.0	1
003	gc06_122722003	CCV				12/27/22 10:05	1.0	2
004	gc06_122722004	CCV				12/27/22 10:24	1.0	3
012	gc06_122722012	BLANK	QC1034026	Wipe	303863	12/27/22 12:41	1.0	4
013	gc06_122722013	BS	QC1034027	Wipe	303863	12/27/22 12:59	1.0	4
014	gc06_122722014	BSD	QC1034028	Wipe	303863	12/27/22 13:17	1.0	4
015	gc06_122722015	SAMPLE	475736-042	Wipe	303863	12/27/22 13:36	1.0	4
016	gc06_122722016	SAMPLE	475736-044	Wipe	303863	12/27/22 13:54	1.0	4
017	gc06_122722017	SAMPLE	475736-045	Wipe	303863	12/27/22 14:12	1.0	4
018	gc06_122722018	SAMPLE	475736-047	Wipe	303863	12/27/22 14:31	1.0	4
019	gc06_122722019	SAMPLE	475736-049	Wipe	303863	12/27/22 14:49	1.0	4
020	gc06_122722020	SAMPLE	475736-051	Wipe	303863	12/27/22 15:07	1.0	4
021	gc06_122722021	SAMPLE	475736-053	Wipe	303863	12/27/22 15:26	1.0	4
022	gc06_122722022	SAMPLE	475736-055	Wipe	303863	12/27/22 15:44	1.0	4
023	gc06_122722023	SAMPLE	475736-057	Wipe	303863	12/27/22 16:02	1.0	4
024	gc06_122722024	SAMPLE	475743-001	Wipe	303863	12/27/22 16:21	1.0	4
025	gc06_122722025	SAMPLE	475743-002	Wipe	303863	12/27/22 16:39	1.0	4
026	gc06_122722026	SAMPLE	475743-004	Wipe	303863	12/27/22 16:57	1.0	4
027	gc06_122722027	SAMPLE	475743-007	Wipe	303863	12/27/22 17:16	1.0	4
028	gc06_122722028	SAMPLE	475743-010	Wipe	303863	12/27/22 17:34	1.0	4
029	gc06_122722029	SAMPLE	475743-011	Wipe	303863	12/27/22 17:52	1.0	4
030	gc06_122722030	SAMPLE	475743-013	Wipe	303863	12/27/22 18:11	1.0	4
031	gc06_122722031	SAMPLE	475744-001	Wipe	303863	12/27/22 18:29	1.0	4
032	gc06_122722032	SAMPLE	475744-003	Wipe	303863	12/27/22 18:47	1.0	4

MES 12/28/22 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 2 through 32.

Standards Used:
1=S17384 2=S17385 3=S17386 4=S17544

SAMPLE PREPARATION SUMMARY

Batch # : 303863
Started By : EPL
Prep Date : 22-DEC-2022 15:43
Method : 3546
Spike #1 ID : S17751
Spike #2 ID : S17644
Analysis : 8080
Finished By : EPL
Units : dm2

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
475736-042		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475736-044		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475736-045		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475736-047		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475736-049		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475736-051		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475736-053		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475736-055		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475736-057		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475743-001		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475743-002		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475743-004		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475743-007		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475743-010		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475743-011		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475743-013		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475744-001		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
475744-003		Wipe	1	10	1	10.0		.5				PCB-MICROWAVE	
QC1034026	BLANK	Wipe	1	10	1	10.0		.5				8080	
QC1034027	BS	Wipe	1	10	1	10.0		.5	.5			8080	
QC1034028	BSD	Wipe	1	10	1	10.0		.5	.5			8080	

Analyst: MES Date: 12/28/22 Reviewer: LW Date: 12/30/22

8081/8082/608.3 Prep Log

Date/Time: 12/22/22 15:43 Initials: EPL 608.3 QC Batch#:

Microdipenser ID: SYRINGE Therm ID/CF: / Hotblock Temp (°C): N/A 8081 QC Batch #:

Prep Method: 3546 Matrix: WIPE Balance ID: N/A 8082 QC Batch #: 303863

Sample ID	Cont. ID	Sample Initial Amount Circle one: mL g	pH is 5-9?	Extraction Equipment ID (Sox, Sonic., Shaker)	Turbo Vap ID	Extract, Final Volume (mL)	Date/Time (if diff from above)	Comment
Blank		1 c/m²	N/A	MICRO-1	TV05	10.0		
LCS				-2				
LCSD				-3				
475736-042	A			-4				
-044	A			-5				
-045	A			-6	▽			
-047	A			-7	TV06			
-049	A			-8				
-051	A			-9				
-053	A			-10				
-055	A			-11				
-057	A			-12	▽			
475743-001	A			-14	TV07			
-002	A			-15				
-004	A			-16				
-007	A			-17				
-010	A			-19				
-011	A			-20	▽			
-013	A			-21	TV08			
475744-001	A			-22				
-003	A	↓	↓	-23	▽	↓		

Methylene Chloride Lot: N/A

Exchange Solvent (Hexane) ID: 223507

Acetone-Hexane Mix ID:

Sodium Sulfate Lot: 213742

Baked Sand Lot: N/A

Surrogate ID: S17751 Volume: 500 µL

Pest LCS Spike ID: N/A Volume: N/A µL

PCB LCS Spike ID: S17644 Volume: 500 µL

Pest MS/MSD Spike ID: N/A Volume: N/A µL

PCB MS/MSD Spike ID: N/A Volume: N/A µL

REPORTING SUMMARY FOR 475743 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
475743-001	Aroclor-1016	SVOA-GC06	B	12/27/22 16:21
475743-001	Aroclor-1221	SVOA-GC06	B	12/27/22 16:21
475743-001	Aroclor-1232	SVOA-GC06	B	12/27/22 16:21
475743-001	Aroclor-1242	SVOA-GC06	B	12/27/22 16:21
475743-001	Aroclor-1248	SVOA-GC06	B	12/27/22 16:21
475743-001	Aroclor-1254	SVOA-GC06	B	12/27/22 16:21
475743-001	Aroclor-1260	SVOA-GC06	B	12/27/22 16:21
475743-001	Aroclor-1262	SVOA-GC06	B	12/27/22 16:21
475743-001	Aroclor-1268	SVOA-GC06	B	12/27/22 16:21
475743-001	TCMX (PCB)	SVOA-GC06	B	12/27/22 16:21
475743-001	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/27/22 16:21
475743-002	Aroclor-1016	SVOA-GC06	B	12/27/22 16:39
475743-002	Aroclor-1221	SVOA-GC06	B	12/27/22 16:39
475743-002	Aroclor-1232	SVOA-GC06	B	12/27/22 16:39
475743-002	Aroclor-1242	SVOA-GC06	B	12/27/22 16:39
475743-002	Aroclor-1248	SVOA-GC06	B	12/27/22 16:39
475743-002	Aroclor-1254	SVOA-GC06	B	12/27/22 16:39
475743-002	Aroclor-1260	SVOA-GC06	B	12/27/22 16:39
475743-002	Aroclor-1262	SVOA-GC06	B	12/27/22 16:39
475743-002	Aroclor-1268	SVOA-GC06	B	12/27/22 16:39
475743-002	TCMX (PCB)	SVOA-GC06	B	12/27/22 16:39
475743-002	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/27/22 16:39
475743-004	Aroclor-1016	SVOA-GC06	B	12/27/22 16:57
475743-004	Aroclor-1221	SVOA-GC06	B	12/27/22 16:57
475743-004	Aroclor-1232	SVOA-GC06	B	12/27/22 16:57
475743-004	Aroclor-1242	SVOA-GC06	B	12/27/22 16:57
475743-004	Aroclor-1248	SVOA-GC06	B	12/27/22 16:57
475743-004	Aroclor-1254	SVOA-GC06	B	12/27/22 16:57
475743-004	Aroclor-1260	SVOA-GC06	B	12/27/22 16:57
475743-004	Aroclor-1262	SVOA-GC06	B	12/27/22 16:57
475743-004	Aroclor-1268	SVOA-GC06	B	12/27/22 16:57
475743-004	TCMX (PCB)	SVOA-GC06	B	12/27/22 16:57
475743-004	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/27/22 16:57
475743-007	Aroclor-1016	SVOA-GC06	B	12/27/22 17:16
475743-007	Aroclor-1221	SVOA-GC06	B	12/27/22 17:16
475743-007	Aroclor-1232	SVOA-GC06	B	12/27/22 17:16
475743-007	Aroclor-1242	SVOA-GC06	B	12/27/22 17:16
475743-007	Aroclor-1248	SVOA-GC06	B	12/27/22 17:16
475743-007	Aroclor-1254	SVOA-GC06	B	12/27/22 17:16
475743-007	Aroclor-1260	SVOA-GC06	B	12/27/22 17:16
475743-007	Aroclor-1262	SVOA-GC06	B	12/27/22 17:16
475743-007	Aroclor-1268	SVOA-GC06	B	12/27/22 17:16
475743-007	TCMX (PCB)	SVOA-GC06	B	12/27/22 17:16
475743-007	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/27/22 17:16
475743-010	Aroclor-1016	SVOA-GC06	B	12/27/22 17:34
475743-010	Aroclor-1221	SVOA-GC06	B	12/27/22 17:34
475743-010	Aroclor-1232	SVOA-GC06	B	12/27/22 17:34
475743-010	Aroclor-1242	SVOA-GC06	B	12/27/22 17:34
475743-010	Aroclor-1248	SVOA-GC06	B	12/27/22 17:34
475743-010	Aroclor-1254	SVOA-GC06	B	12/27/22 17:34

REPORTING SUMMARY FOR 475743 PCBS Wipe

Sample ID	Analyte	Inst ID	Ch	Date & Time
475743-010	Aroclor-1260	SVOA-GC06	B	12/27/22 17:34
475743-010	Aroclor-1262	SVOA-GC06	B	12/27/22 17:34
475743-010	Aroclor-1268	SVOA-GC06	B	12/27/22 17:34
475743-010	TCMX (PCB)	SVOA-GC06	B	12/27/22 17:34
475743-010	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/27/22 17:34
475743-011	Aroclor-1016	SVOA-GC06	B	12/27/22 17:52
475743-011	Aroclor-1221	SVOA-GC06	B	12/27/22 17:52
475743-011	Aroclor-1232	SVOA-GC06	B	12/27/22 17:52
475743-011	Aroclor-1242	SVOA-GC06	B	12/27/22 17:52
475743-011	Aroclor-1248	SVOA-GC06	B	12/27/22 17:52
475743-011	Aroclor-1254	SVOA-GC06	B	12/27/22 17:52
475743-011	Aroclor-1260	SVOA-GC06	B	12/27/22 17:52
475743-011	Aroclor-1262	SVOA-GC06	B	12/27/22 17:52
475743-011	Aroclor-1268	SVOA-GC06	B	12/27/22 17:52
475743-011	TCMX (PCB)	SVOA-GC06	B	12/27/22 17:52
475743-011	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/27/22 17:52
475743-013	Aroclor-1016	SVOA-GC06	B	12/27/22 18:11
475743-013	Aroclor-1221	SVOA-GC06	B	12/27/22 18:11
475743-013	Aroclor-1232	SVOA-GC06	B	12/27/22 18:11
475743-013	Aroclor-1242	SVOA-GC06	B	12/27/22 18:11
475743-013	Aroclor-1248	SVOA-GC06	B	12/27/22 18:11
475743-013	Aroclor-1254	SVOA-GC06	B	12/27/22 18:11
475743-013	Aroclor-1260	SVOA-GC06	B	12/27/22 18:11
475743-013	Aroclor-1262	SVOA-GC06	B	12/27/22 18:11
475743-013	Aroclor-1268	SVOA-GC06	B	12/27/22 18:11
475743-013	TCMX (PCB)	SVOA-GC06	B	12/27/22 18:11
475743-013	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/27/22 18:11
QC1034026	Aroclor-1016	SVOA-GC06	B	12/27/22 12:41
QC1034026	Aroclor-1221	SVOA-GC06	B	12/27/22 12:41
QC1034026	Aroclor-1232	SVOA-GC06	B	12/27/22 12:41
QC1034026	Aroclor-1242	SVOA-GC06	B	12/27/22 12:41
QC1034026	Aroclor-1248	SVOA-GC06	B	12/27/22 12:41
QC1034026	Aroclor-1254	SVOA-GC06	B	12/27/22 12:41
QC1034026	Aroclor-1260	SVOA-GC06	B	12/27/22 12:41
QC1034026	Aroclor-1262	SVOA-GC06	B	12/27/22 12:41
QC1034026	Aroclor-1268	SVOA-GC06	B	12/27/22 12:41
QC1034026	TCMX (PCB)	SVOA-GC06	B	12/27/22 12:41
QC1034026	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/27/22 12:41
QC1034027	Aroclor-1016	SVOA-GC06	B	12/27/22 12:59
QC1034027	Aroclor-1260	SVOA-GC06	B	12/27/22 12:59
QC1034027	TCMX (PCB)	SVOA-GC06	B	12/27/22 12:59
QC1034027	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/27/22 12:59
QC1034028	Aroclor-1016	SVOA-GC06	B	12/27/22 13:17
QC1034028	Aroclor-1260	SVOA-GC06	B	12/27/22 13:17
QC1034028	TCMX (PCB)	SVOA-GC06	B	12/27/22 13:17
QC1034028	Decachlorobiphenyl (PCB)	SVOA-GC06	B	12/27/22 13:17

Sample Raw Data

ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	475743-001	Client ID:	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-LA
Seqnum:	452520427024.1	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_122722024	Batch:	303863	Time:	27-DEC-2022 16:21
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	64.82	~~0.65~~ ~~FP~~	0.22	99%	0.50		x u
Aroclor-1016 Peak # 1	B	32.03	0.32	0.10	102%			
Aroclor-1016 Peak # 2	B	101.6	1.02	ND	232%			
Aroclor-1016 Peak # 3	B	179.2	1.79	0.75	81%			
Aroclor-1016 Peak # 4	B	2.689	0.03	0.18	147%			
Aroclor-1016 Peak # 5	B	8.549	0.09	0.14	48%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	16.43	ND	0.28	51%	0.50		u
Aroclor-1260 Peak # 1	B	63.35	0.63	0.52	19%			
Aroclor-1260 Peak # 2	B	5.695	0.06	0.01	137%			
Aroclor-1260 Peak # 3	B	10.56	0.11	0.10	6%			
Aroclor-1260 Peak # 4	B	18.51	0.19	0.88	131%			
Aroclor-1260 Peak # 5	B	-15.94	ND	ND	-21%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	35.87	0.5000	0.3587	72	19-121	u
Decachlorobiphenyl (PCB)	B	37.10	0.5000	0.3710	74	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_122722004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6120897	5620774	-8.17
1-bromo-2-nitrobenzene (PCB)	A	1313242	1200750	-8.57

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

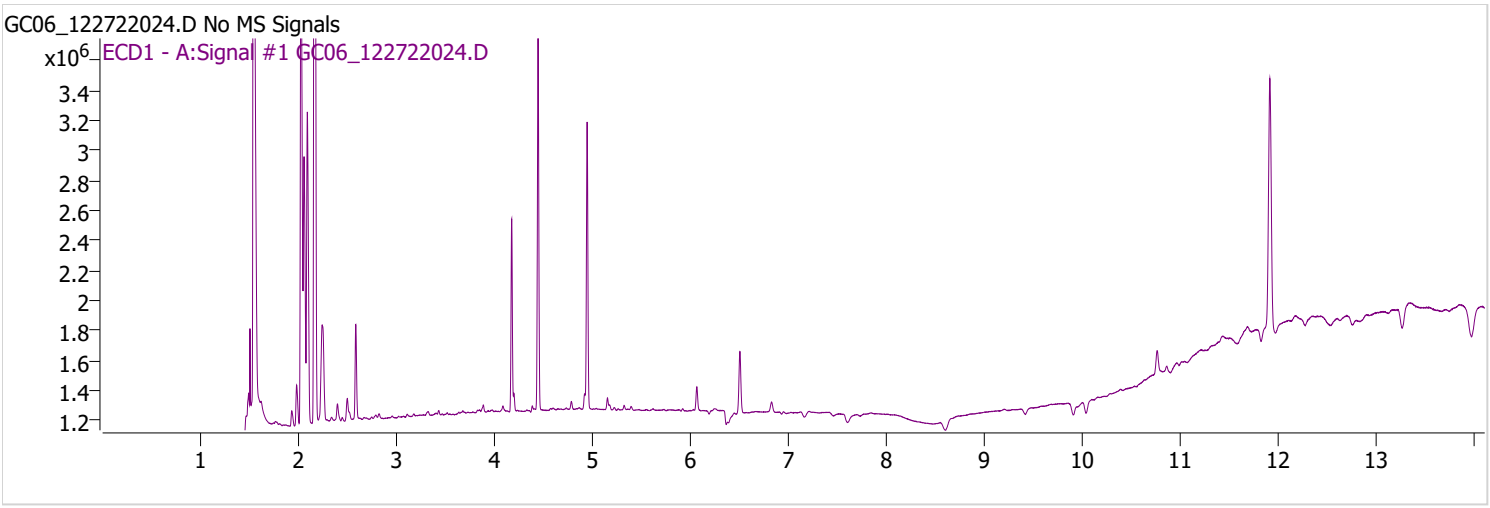
ISTD (CCV gc06_122722004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.42	4.42	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

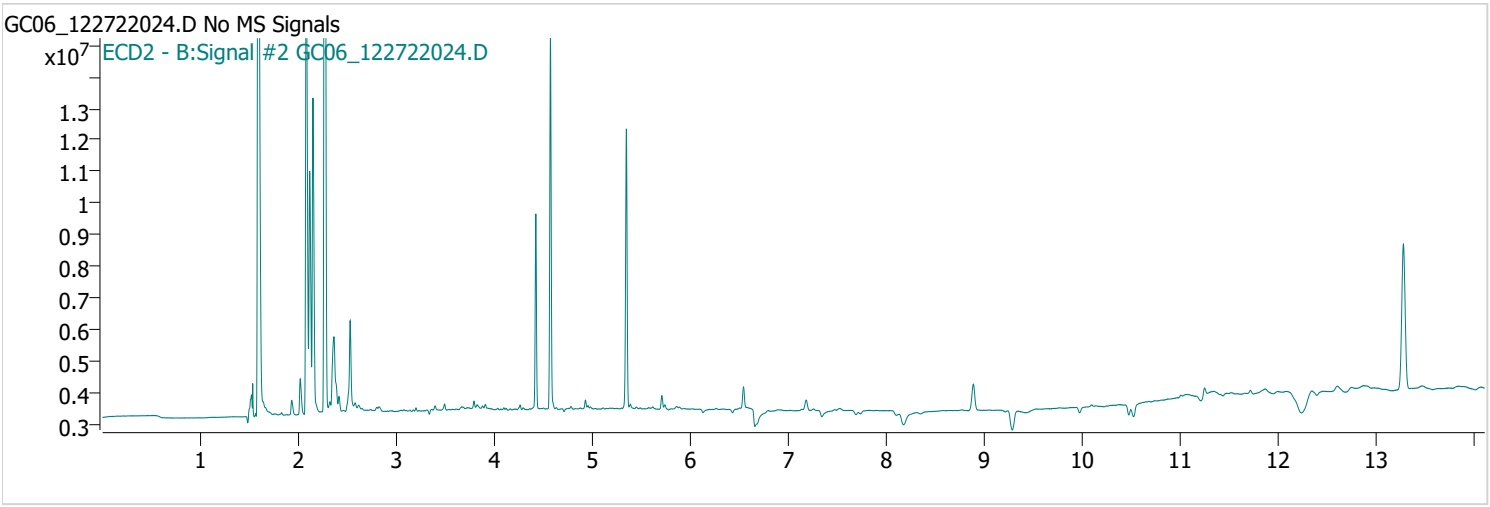
Analyst: MES 12/28/22 *

Reviewer: LW 12/30/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_122722024.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/27/2022 4:21:11 PM
Sample Name	475743-001, 303863, 1	Instrument	SVOA-GC06
Vial	13	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_14a.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	122722PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



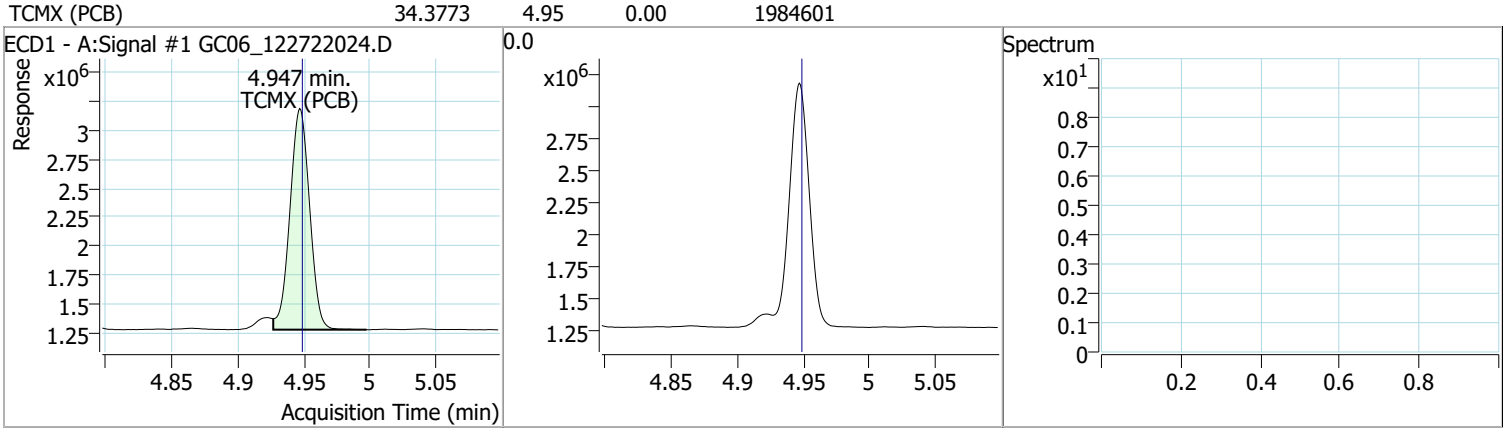


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.177	0.0	1200750.436	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.423	0.0	5620773.748	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.947	0.0	1984600.645	34.3773	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 171.89%		*	
S TCMX (PCB) #2	5.348	0.0	9682717.304	35.8706	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 179.35%		*	
S Decachlorobiphenyl (PCB)	11.917	0.0	3478157.316	43.4703	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 217.35%		*	
S Decachlorobiphenyl (PCB) #2	13.280	0.0	11210430.992	37.0986	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 185.49%		*	
Target Compounds							QValue

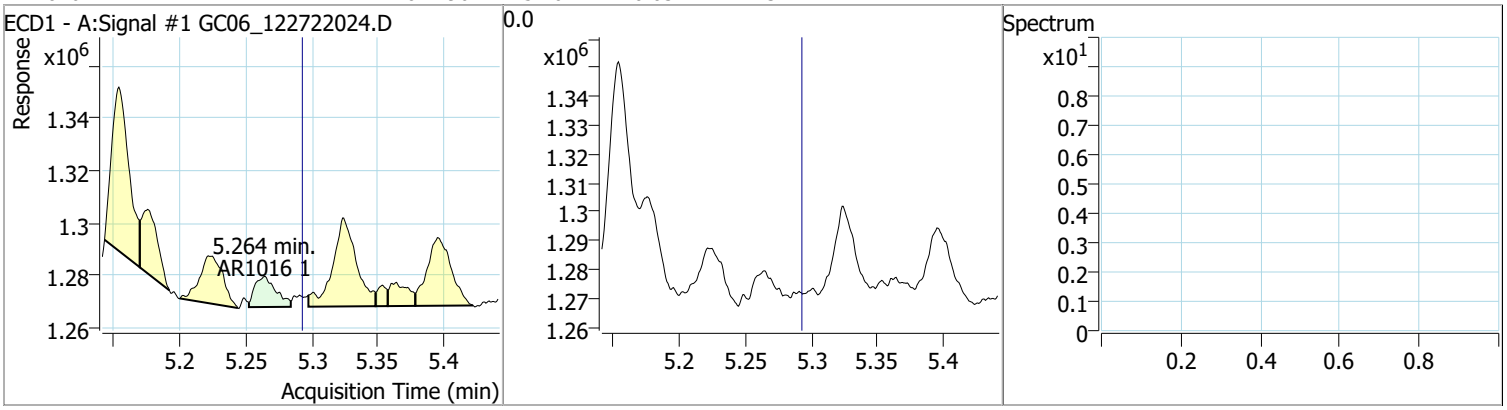
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.264	0.0	13117.302	10.4196	ng/ml	100
T AR1016 2	5.623	0.0	19750.479	0.0000	ng/ml	100
T AR1016 1 #2	5.863	0.0	187121.471	32.0315	ng/ml	100
T AR1016 3	6.067	0.0	240861.014	75.4619	ng/ml	100
T AR1016 4	6.214	0.0	42593.292	17.5456	ng/ml	100
T AR1016 2 #2	6.263	0.0	856922.269	101.6166	ng/ml	100
T AR1016 5	6.671	0.0	27153.533	13.8871	ng/ml	100
T AR1016 3 #2	6.896	0.0	2745950.873	179.2088	ng/ml	100
T AR1016 4 #2	7.023	0.0	29409.947	2.6885	ng/ml	100
T AR1016 5 #2	7.715	0.0	76012.775	8.5488	ng/ml	100
T AR1260 1	8.550	0.0	212059.153	52.2344	ng/ml	100
T AR1260 2	9.076	0.0	6606.591	1.0677	ng/ml	100
T AR1260 3	9.613	0.0	64598.055	9.9880	ng/ml	100
T AR1260 1 #2	9.939	0.0	1059644.993	63.3480	ng/ml	100
T AR1260 4	10.003	0.0	354933.500	88.4623	ng/ml	100
T AR1260 2 #2	10.140	0.0	114458.578	5.6949	ng/ml	100
T AR1260 5	10.396	0.0	37663.225	0.0000	ng/ml	100
T AR1260 3 #2	10.497	0.0	268565.837	10.5568	ng/ml	100
T AR1260 4 #2	11.078	0.0	588733.443	18.5112	ng/ml	100
T AR1260 5 #2	11.659	0.0	57656.276	0.0000	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

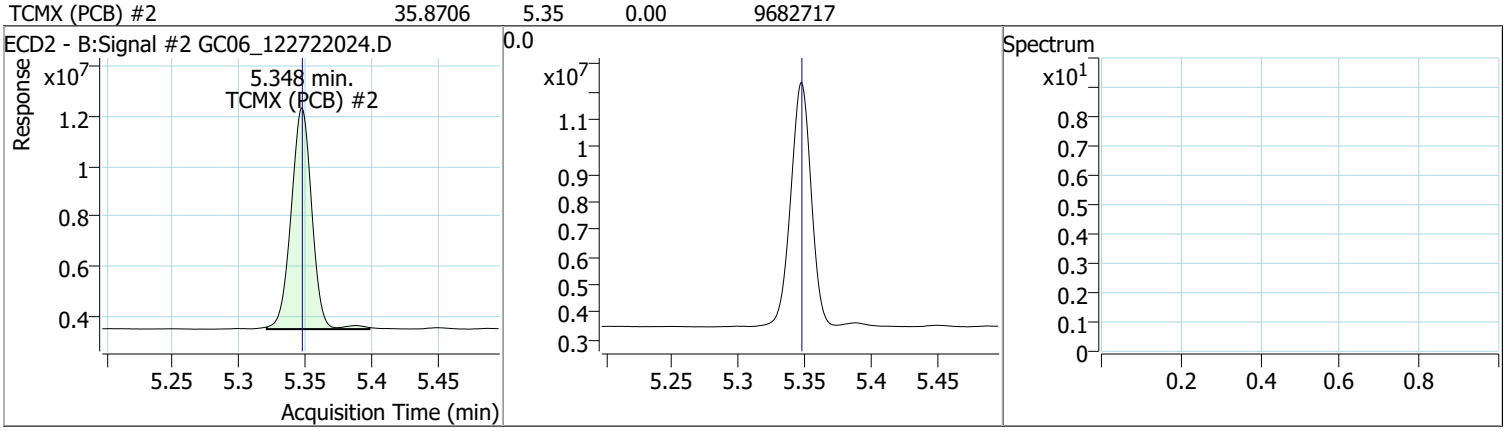
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	34.3773	4.95	0.00	1984601				



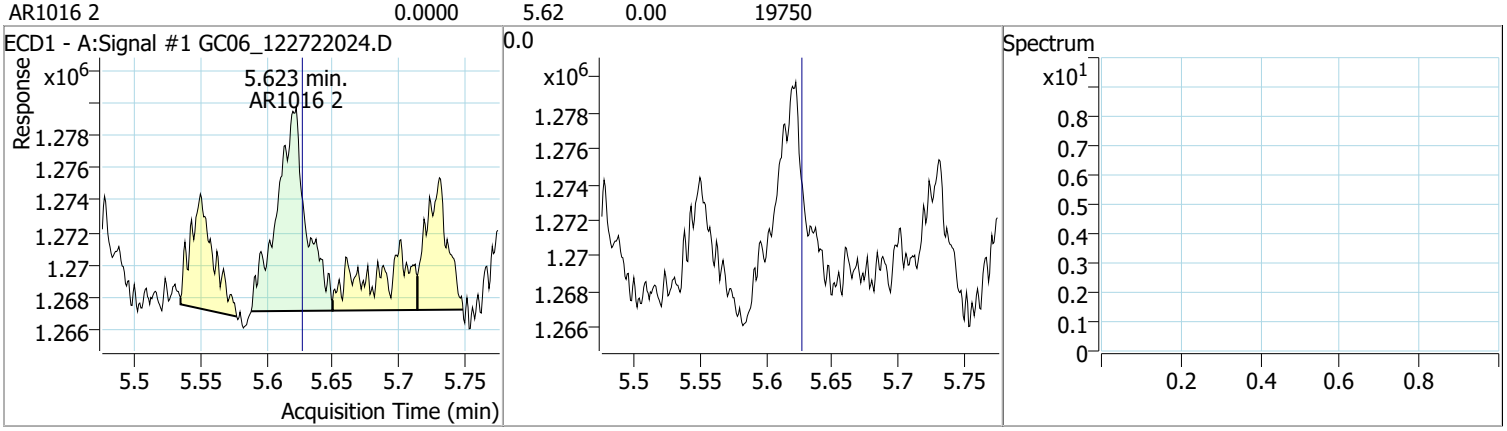
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	10.4196	5.26	-0.03	13117				



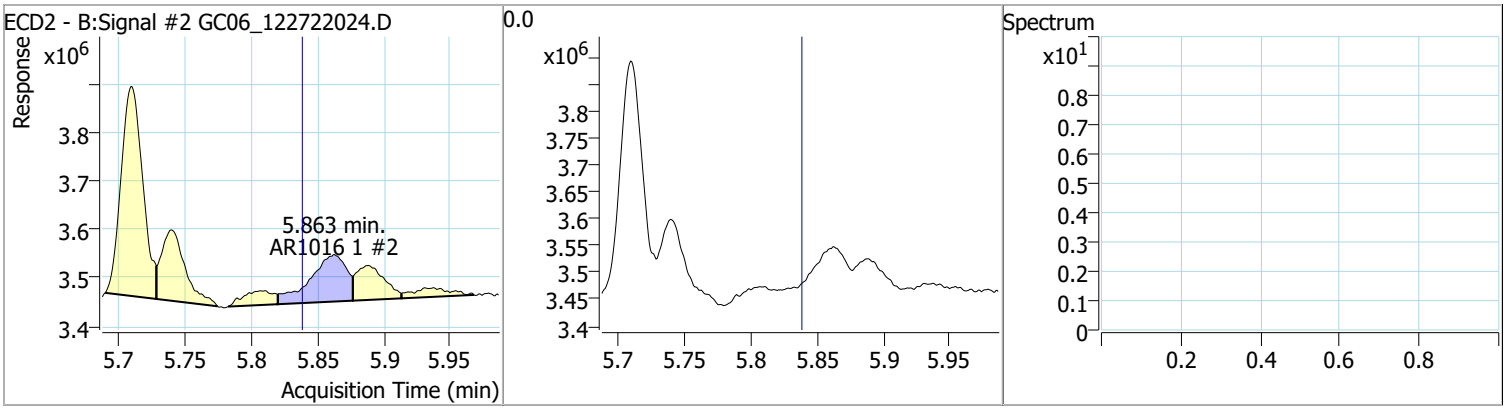
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	35.8706	5.35	0.00	9682717				



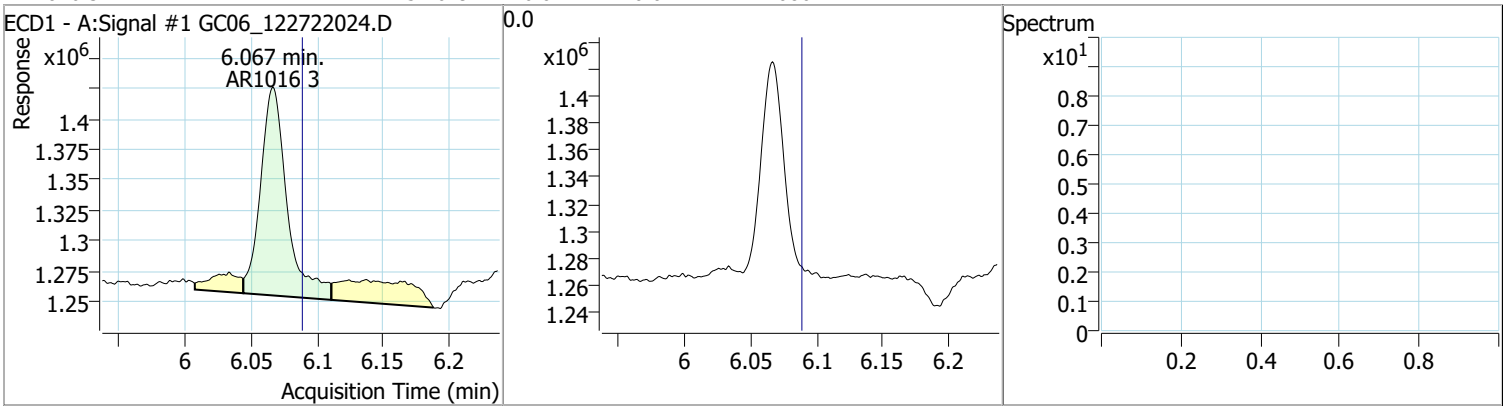
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.62	0.00	19750				



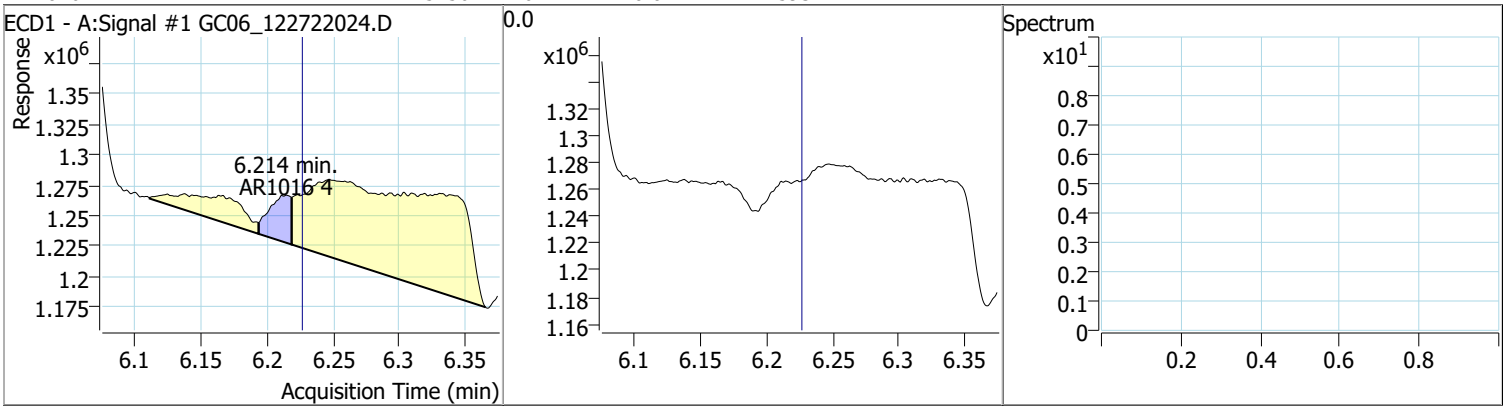
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	32.0315	5.86	0.03	187121				



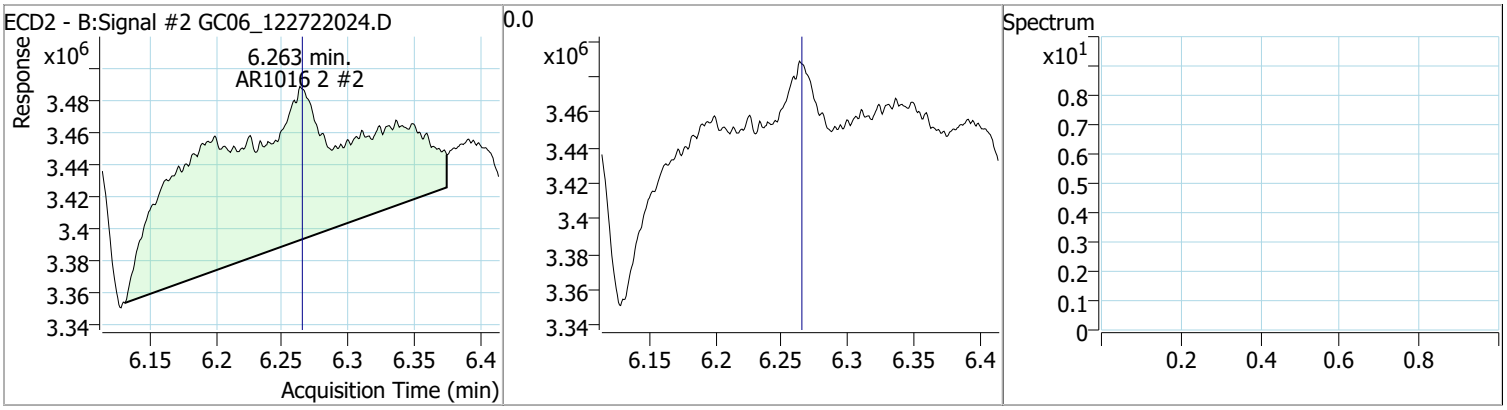
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	75.4619	6.07	-0.02	240861				



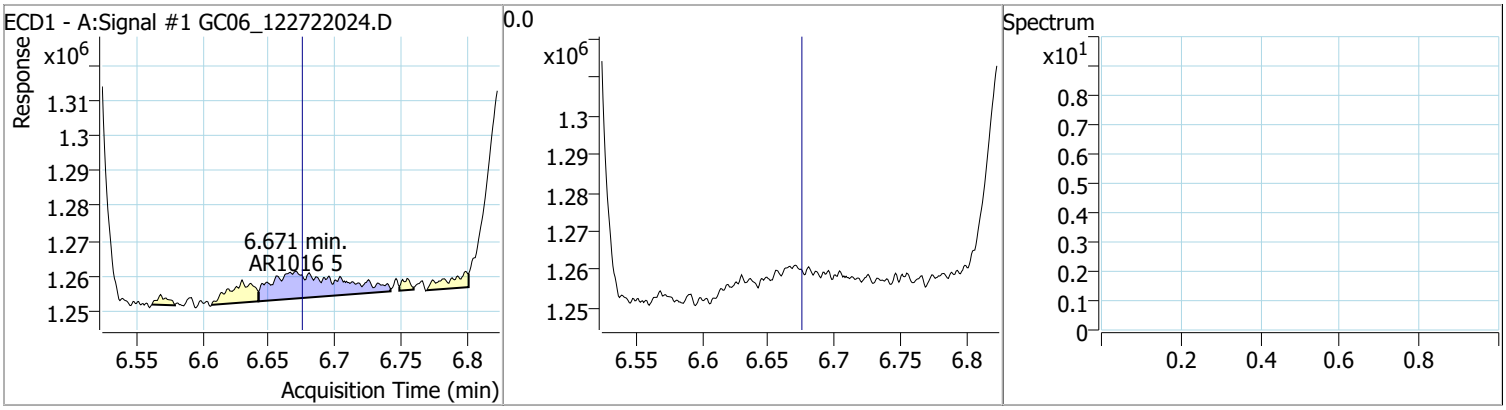
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	17.5456	6.21	-0.01	42593				



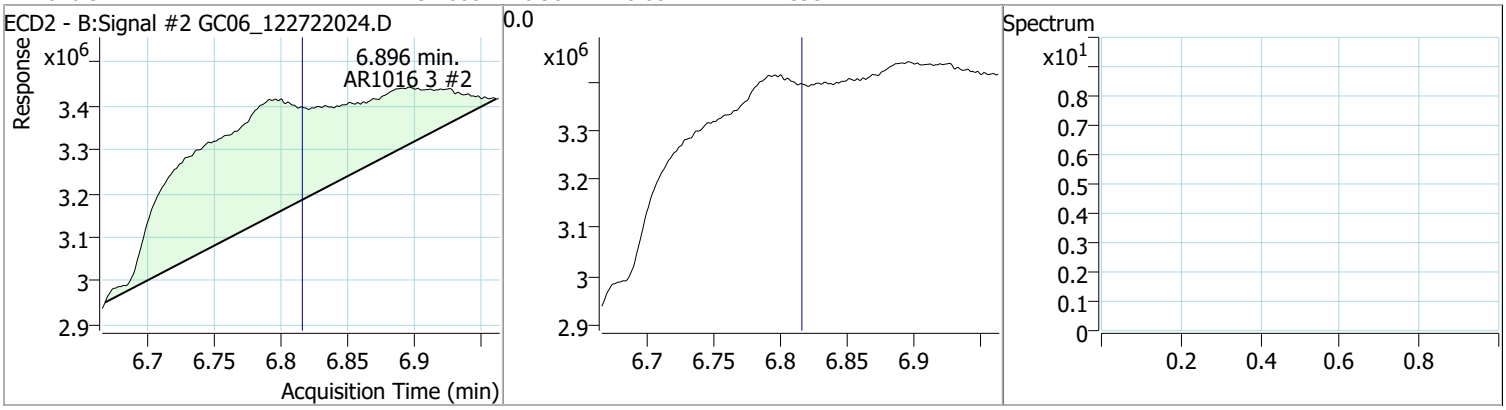
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	101.6166	6.26	0.00	856922				



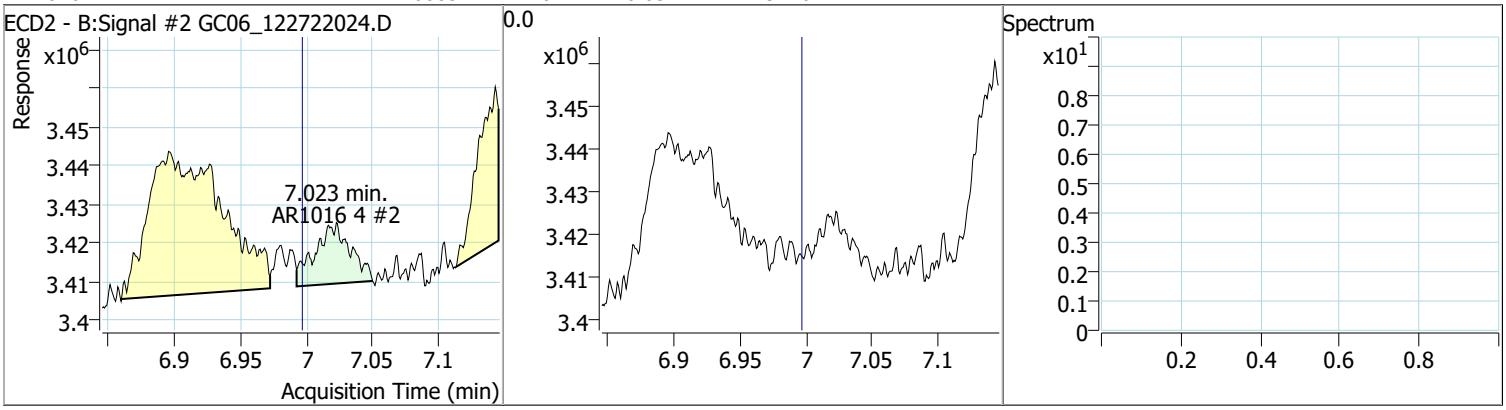
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	13.8871	6.67	0.00	27154				



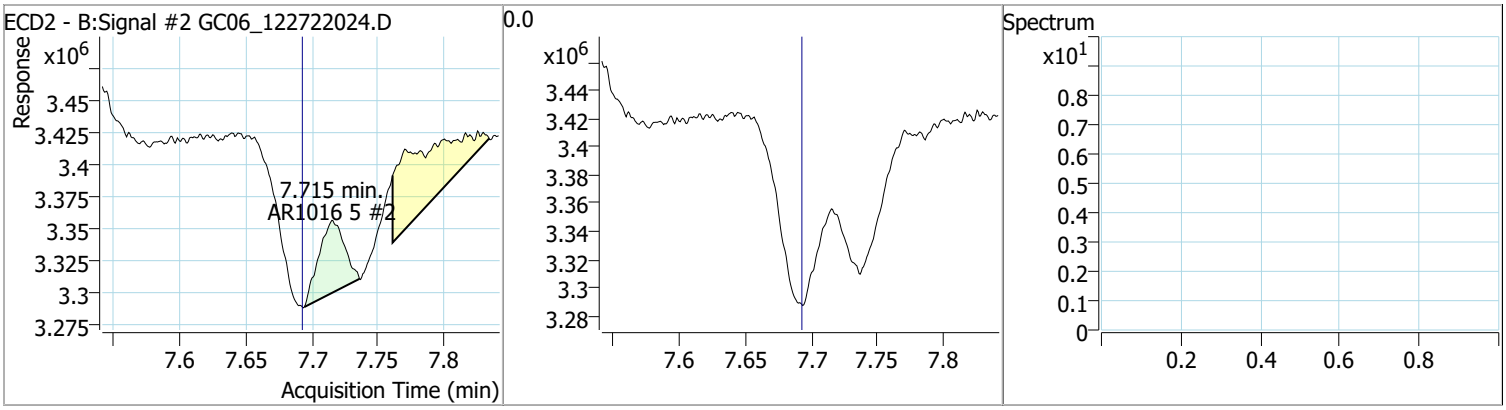
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	179.2088	6.90	0.08	2745951				



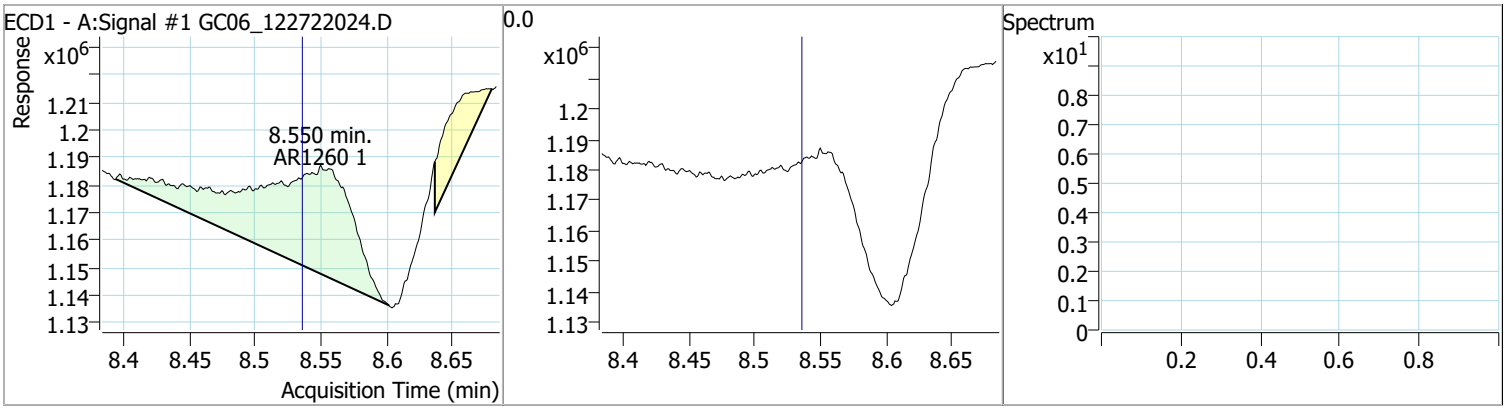
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	2.6885	7.02	0.03	29410				



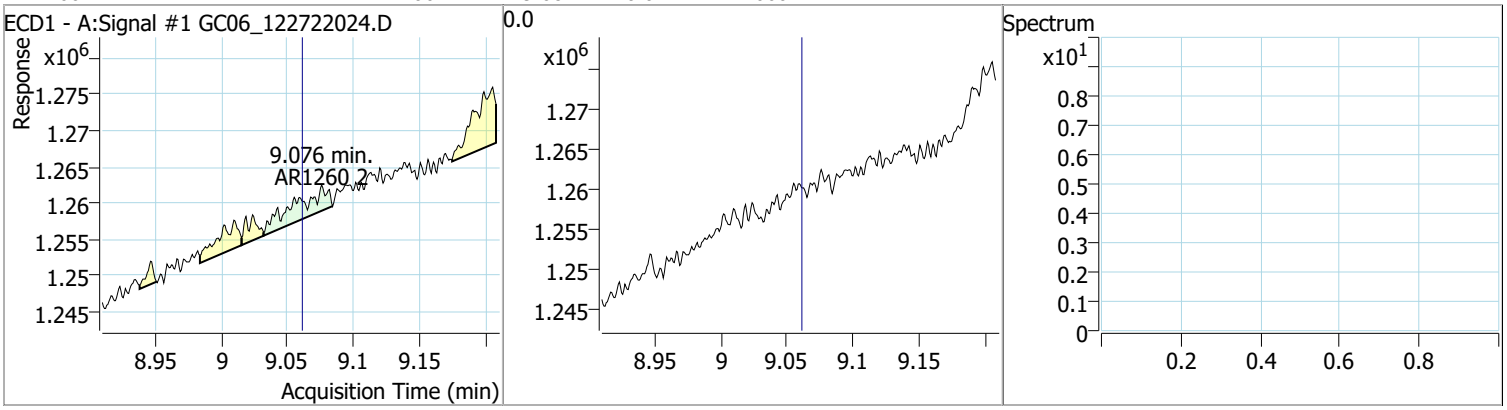
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	8.5488	7.72	0.02	76013				



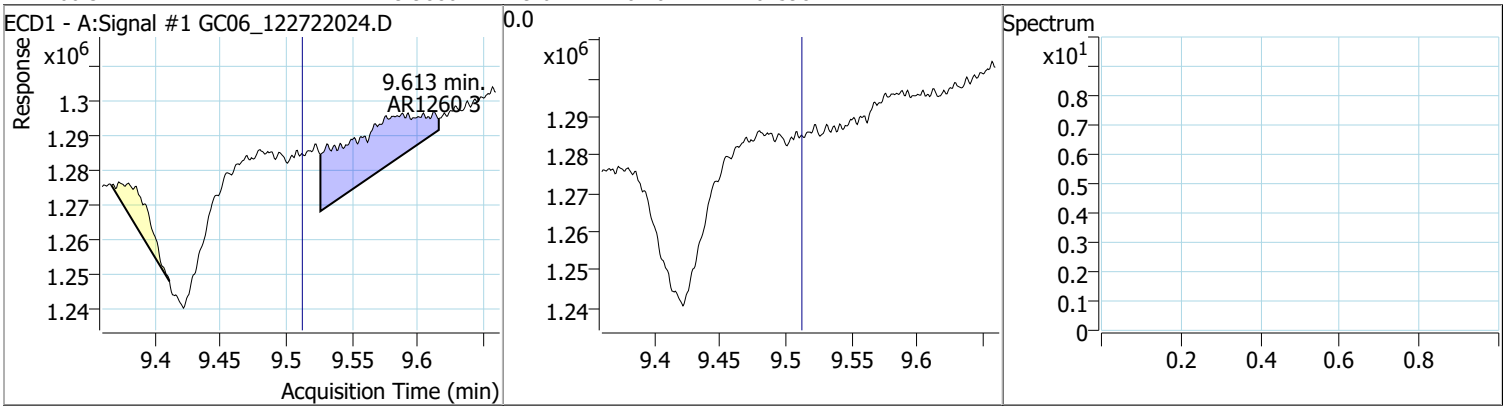
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	52.2344	8.55	0.02	212059				



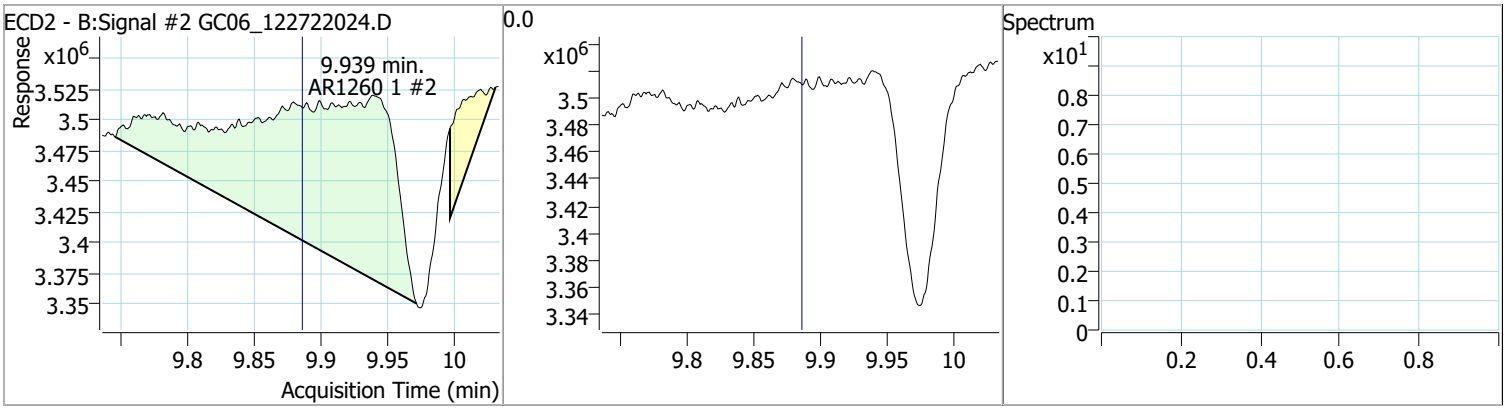
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1.0677	9.08	0.02	6607				



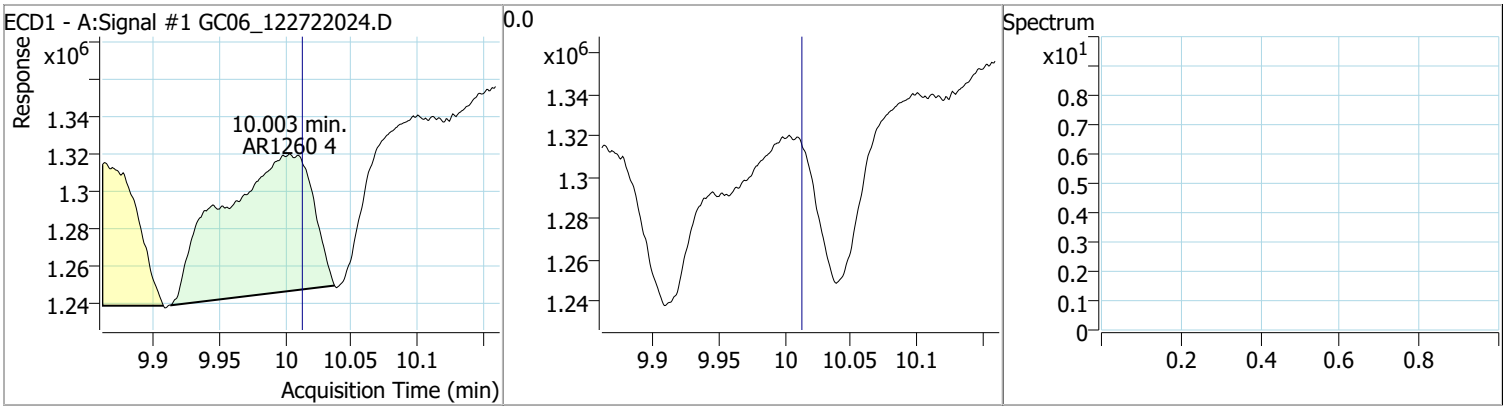
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	9.9880	9.61	0.10	64598				



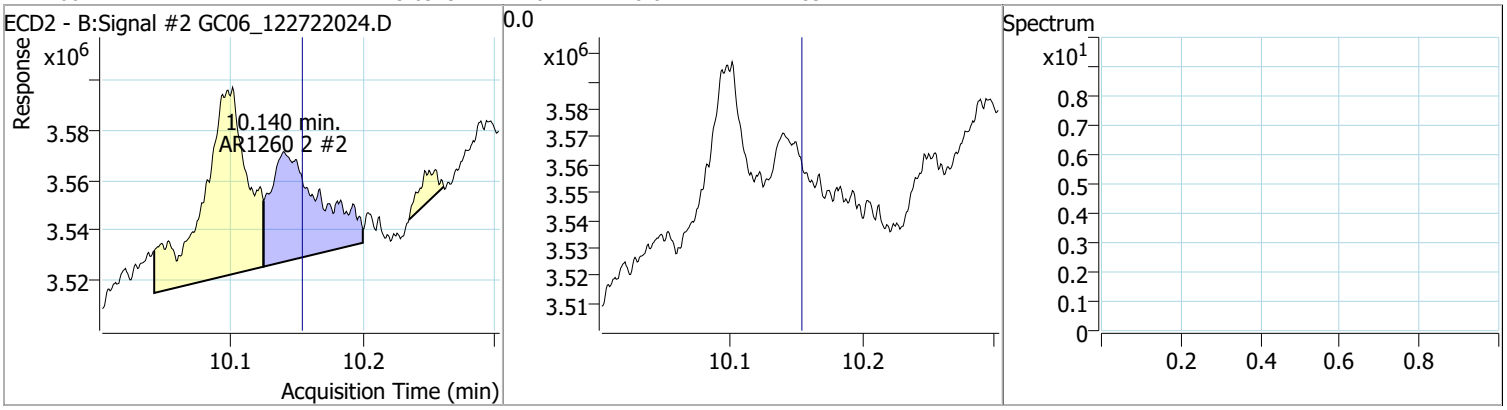
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	63.3480	9.94	0.05	1059645				



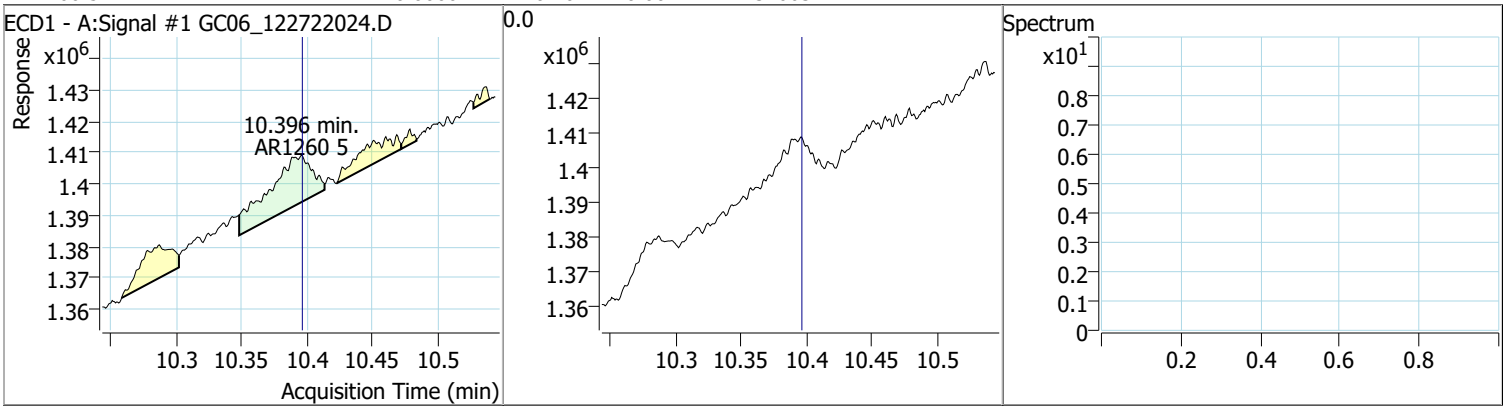
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	88.4623	10.00	-0.01	354933				



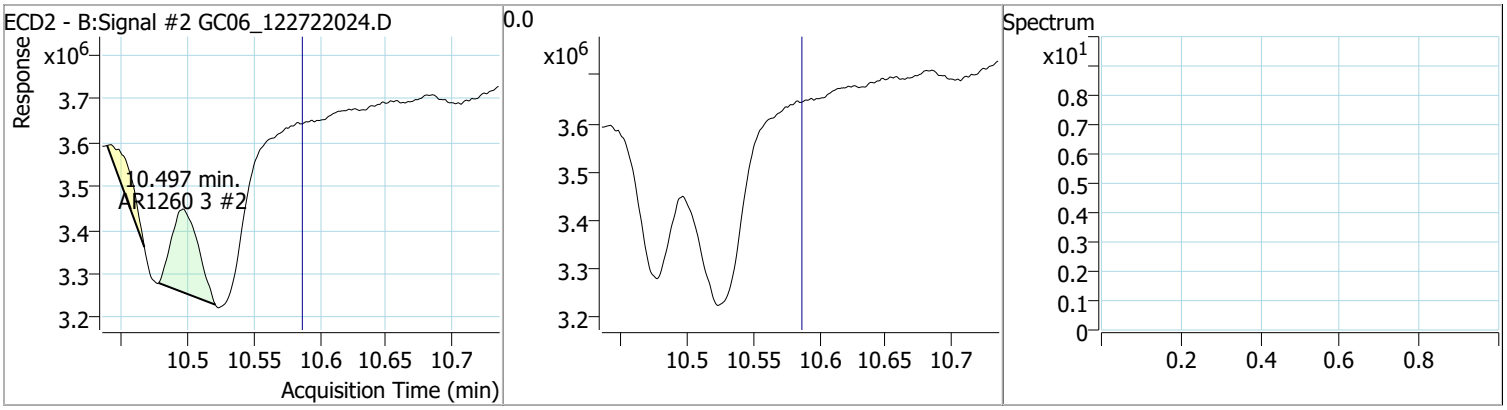
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	5.6949	10.14	-0.01	114459				



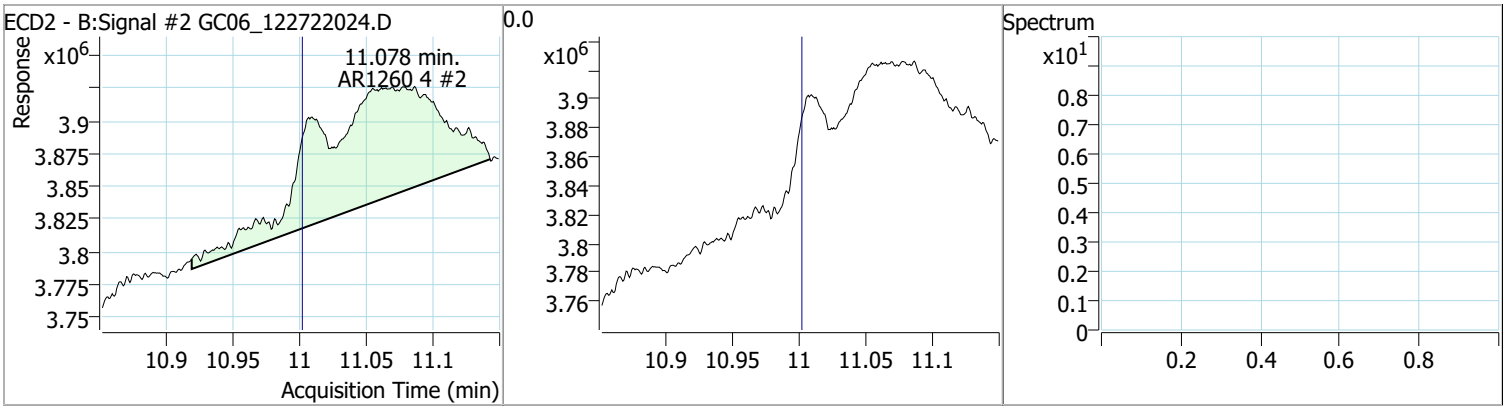
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	0.0000	10.40	0.00	37663				



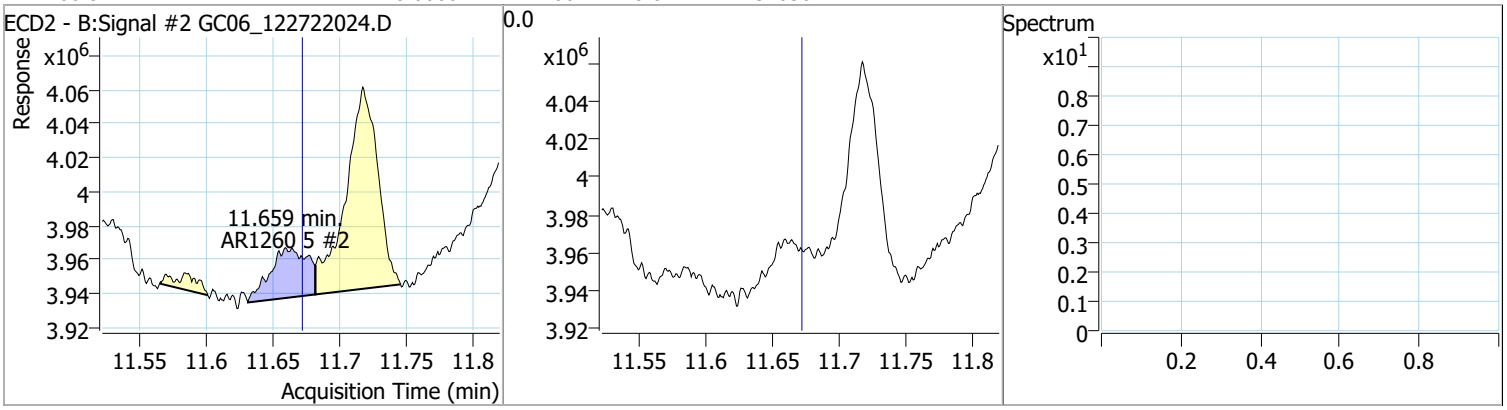
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	10.5568	10.50	-0.09	268566				



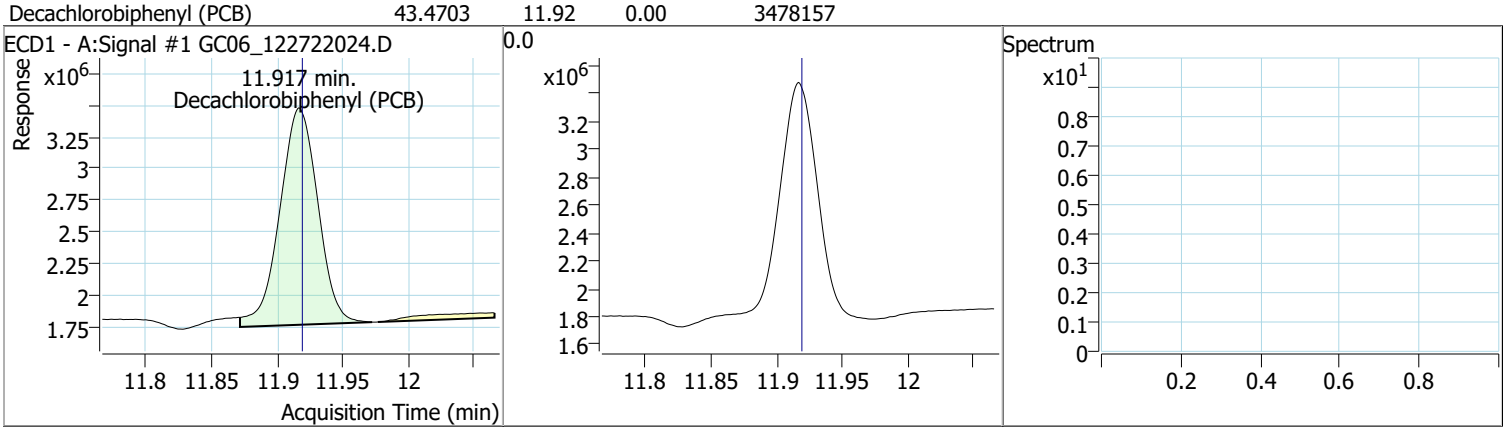
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	18.5112	11.08	0.08	588733				



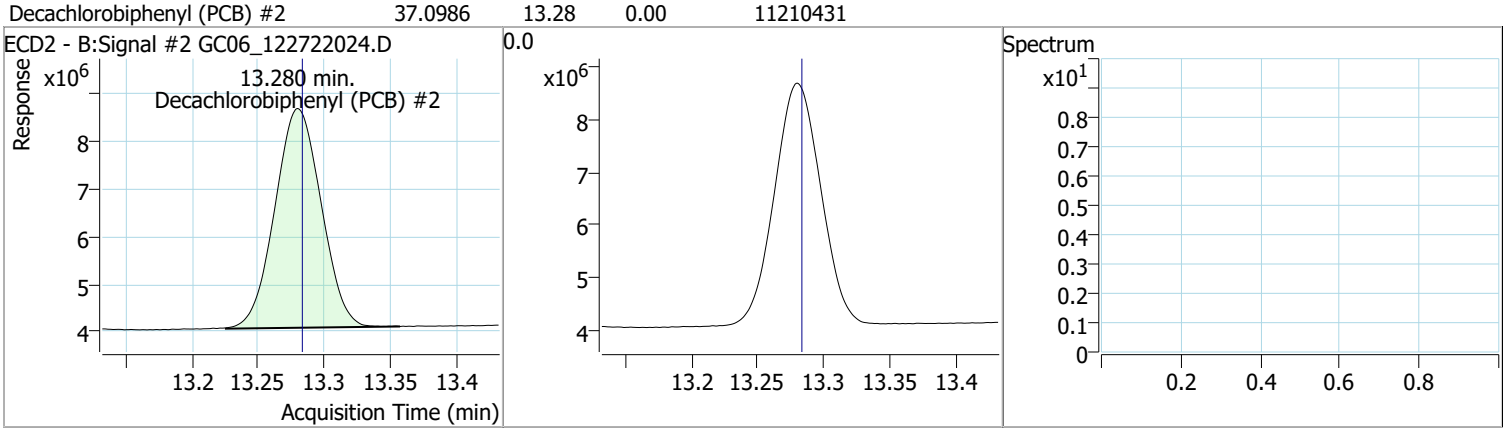
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	0.0000	11.66	-0.01	57656				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	43.4703	11.92	0.00	3478157				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	37.0986	13.28	0.00	11210431				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	475743-002	Client ID:	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-DUP-LA
Seqnum:	452520427025.1	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_122722025	Batch:	303863	Time:	27-DEC-2022 16:39
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	61.63	~~0.62~~ ~~FP~~	0.86	33%	0.50		x u
Aroclor-1016 Peak # 1	B	100.2	1.00	0.98	2%			
Aroclor-1016 Peak # 2	B	40.90	0.41	ND	263%			
Aroclor-1016 Peak # 3	B	159.8	1.60	0.71	78%			
Aroclor-1016 Peak # 4	B	0.5418	0.01	2.52	199%			
Aroclor-1016 Peak # 5	B	6.760	0.07	0.15	77%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	4.865	ND	0.14	94%	0.50		u
Aroclor-1260 Peak # 1	B	37.77	0.38	0.09	122%			
Aroclor-1260 Peak # 2	B	3.293	0.03	0.02	52%			
Aroclor-1260 Peak # 3	B	7.141	0.07	0.22	102%			
Aroclor-1260 Peak # 4	B	-6.158	ND	0.41	272%			
Aroclor-1260 Peak # 5	B	-17.72	ND	ND	-101%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	35.61	0.5000	0.3561	71	19-121	u
Decachlorobiphenyl (PCB)	B	33.55	0.5000	0.3355	67	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_122722004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6120897	6061448	-0.97
1-bromo-2-nitrobenzene (PCB)	A	1313242	1204110	-8.31

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

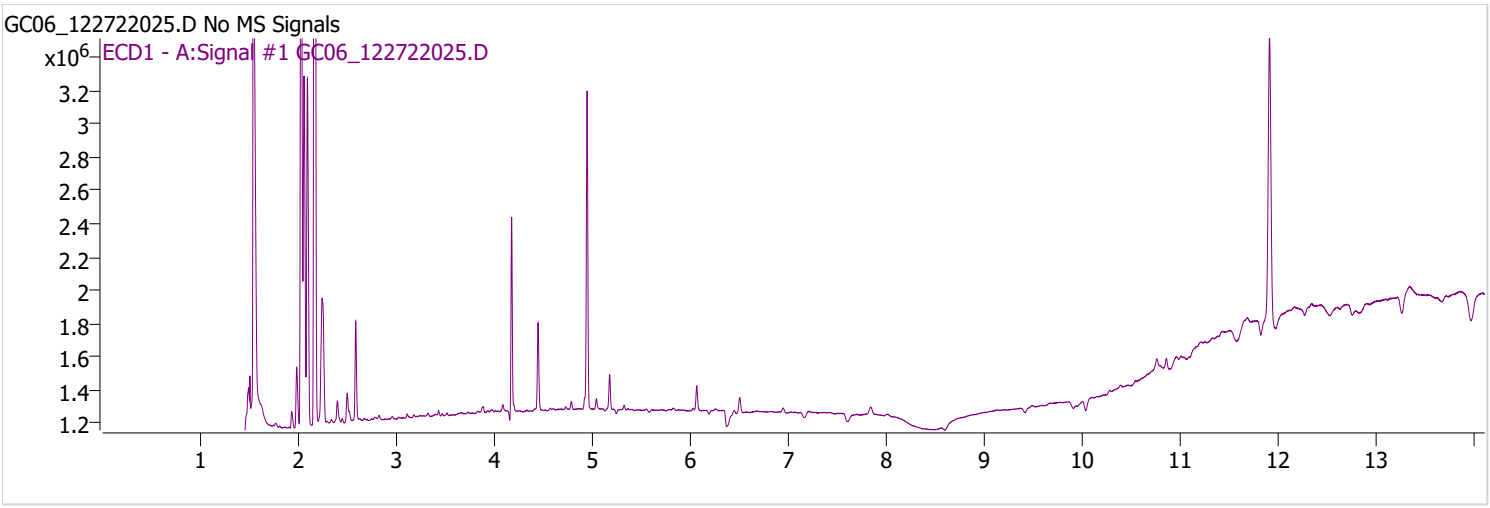
ISTD (CCV gc06_122722004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.42	4.42	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

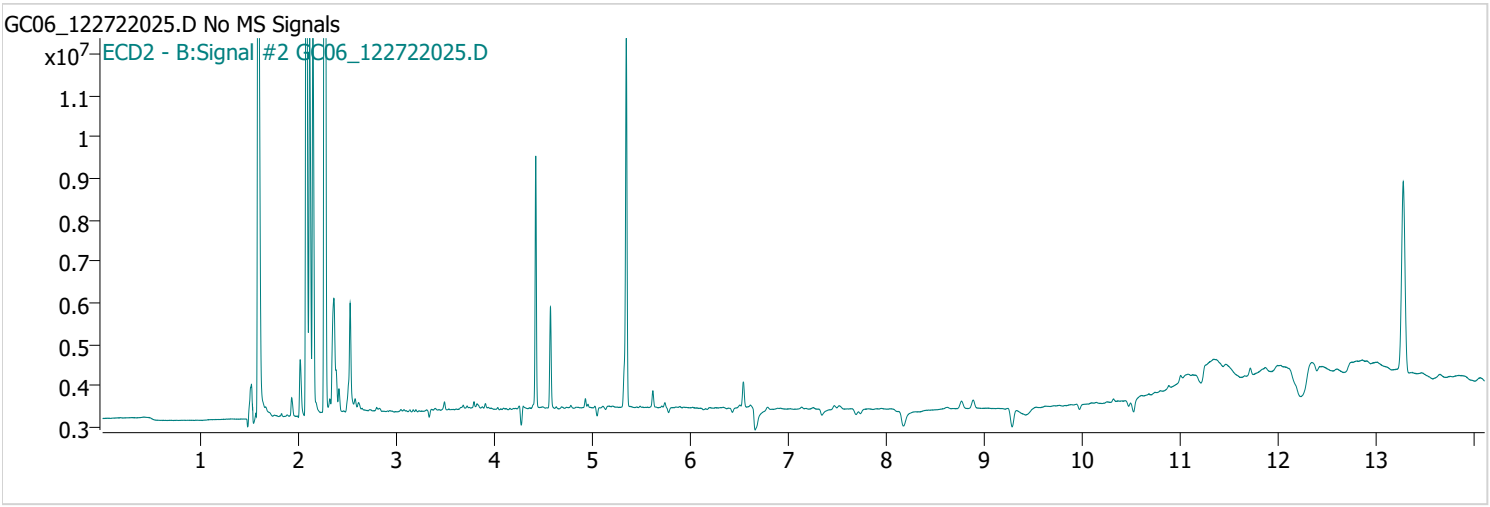
Analyst: MES 12/28/22 *

Reviewer: LW 12/30/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_122722025.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/27/2022 4:39:35 PM
Sample Name	475743-002, 303863, 1	Instrument	SVOA-GC06
Vial	14	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_14a.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	122722PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



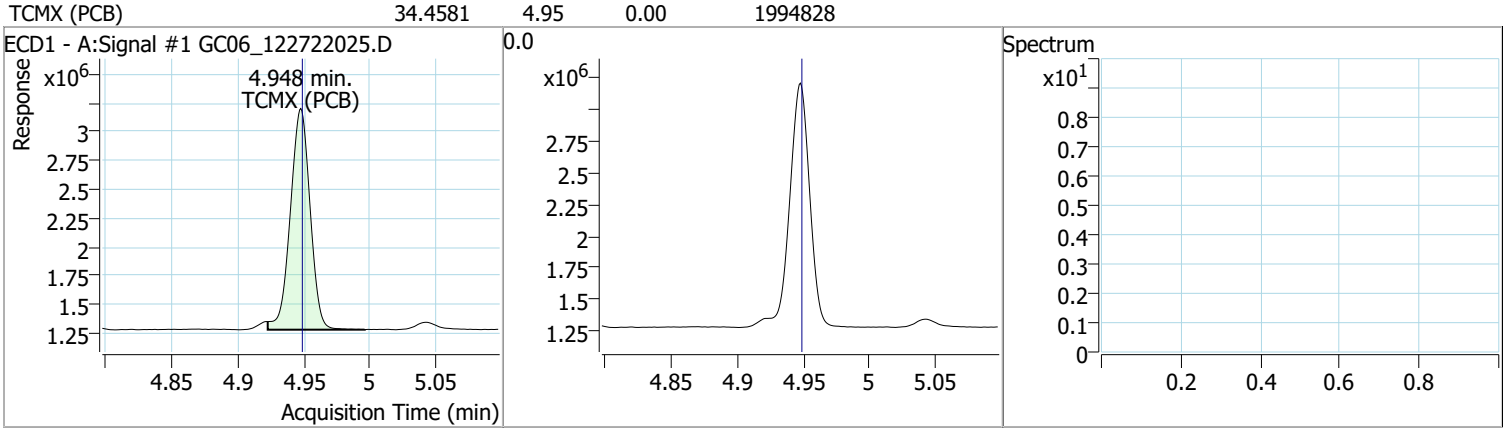


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.177	0.0	1204109.941	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.423	0.0	6061448.479	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.948	0.0	1994828.465	34.4581	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 172.29%		*	
S TCMX (PCB) #2	5.348	0.0	10367595.430	35.6155	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 178.08%		*	
S Decachlorobiphenyl (PCB)	11.916	0.0	3452535.538	42.9859	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 214.93%		*	
S Decachlorobiphenyl (PCB) #2	13.281	0.0	10995456.182	33.5506	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 167.75%		*	
Target Compounds							QValue

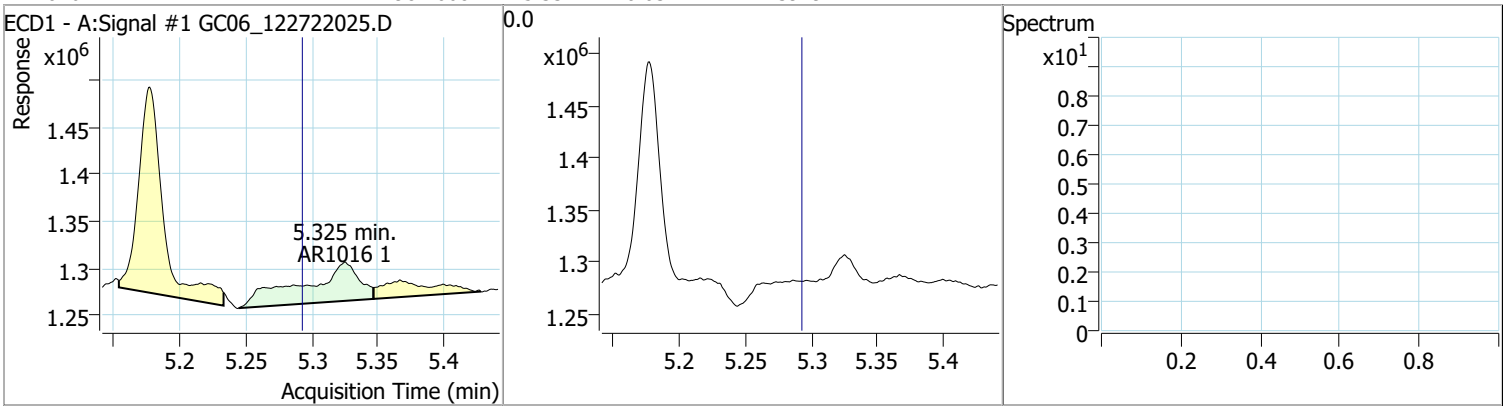
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.325	0.0	123978.529	98.2068	ng/ml	100
T AR1016 2	5.614	0.0	24739.217	0.0000	ng/ml	100
T AR1016 1 #2	5.893	0.0	631119.964	100.1810	ng/ml	100
T AR1016 3	6.068	0.0	225709.843	70.5177	ng/ml	100
T AR1016 4	6.258	0.0	613956.891	252.2037	ng/ml	100
T AR1016 2 #2	6.341	0.0	371927.900	40.8980	ng/ml	100
T AR1016 5	6.681	0.0	29713.588	15.1540	ng/ml	100
T AR1016 3 #2	6.790	0.0	2640016.897	159.7692	ng/ml	100
T AR1016 4 #2	6.998	0.0	6391.025	0.5418	ng/ml	100
T AR1016 5 #2	7.718	0.0	64821.723	6.7602	ng/ml	100
T AR1260 1	8.560	0.0	37137.914	9.1223	ng/ml	100
T AR1260 2	9.085	0.0	11951.027	1.9260	ng/ml	100
T AR1260 3	9.596	0.0	143460.095	22.1195	ng/ml	100
T AR1260 1 #2	9.945	0.0	681329.301	37.7702	ng/ml	100
T AR1260 4	10.010	0.0	191811.343	40.5534	ng/ml	100
T AR1260 2 #2	10.146	0.0	71374.412	3.2931	ng/ml	100
T AR1260 5	10.394	0.0	88459.255	0.0000	ng/ml	100
T AR1260 3 #2	10.496	0.0	195900.282	7.1406	ng/ml	100
T AR1260 4 #2	11.008	0.0	263431.819	0.0000	ng/ml	100
T AR1260 5 #2	11.659	0.0	21546.926	0.0000	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

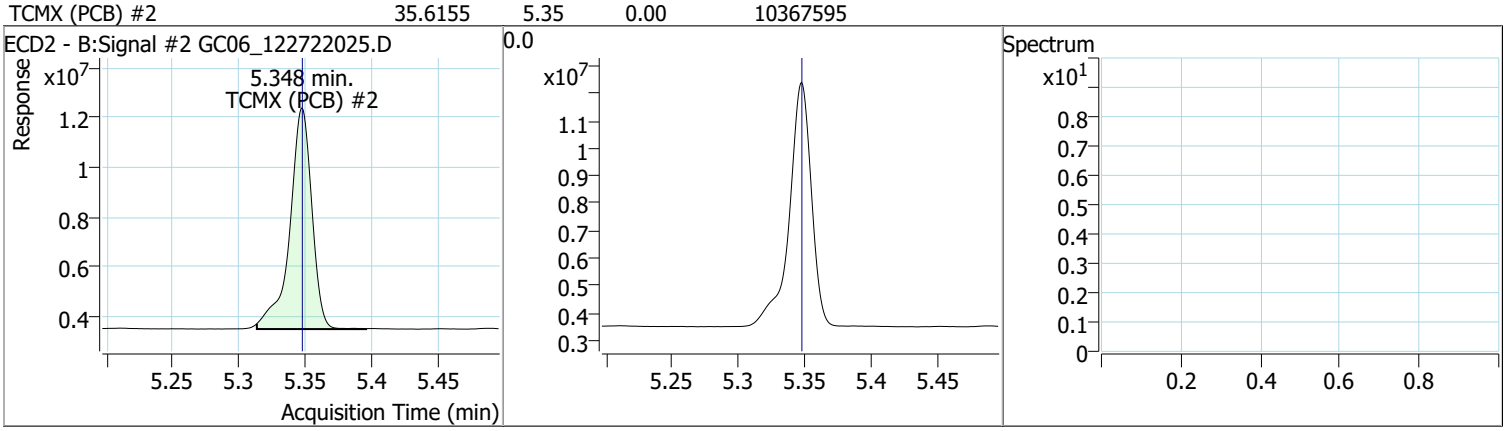
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	34.4581	4.95	0.00	1994828				



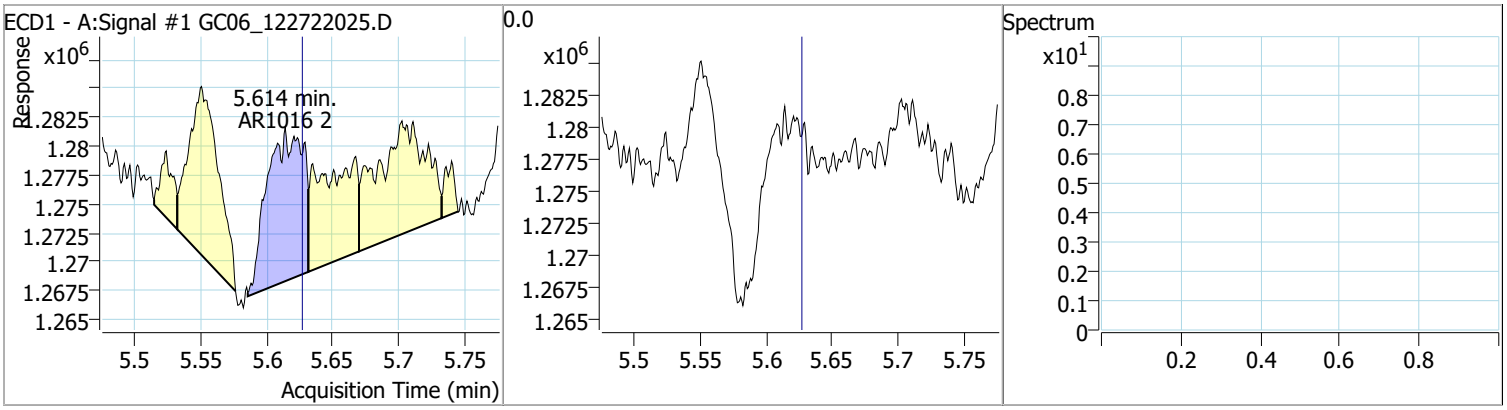
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	98.2068	5.33	0.03	123979				



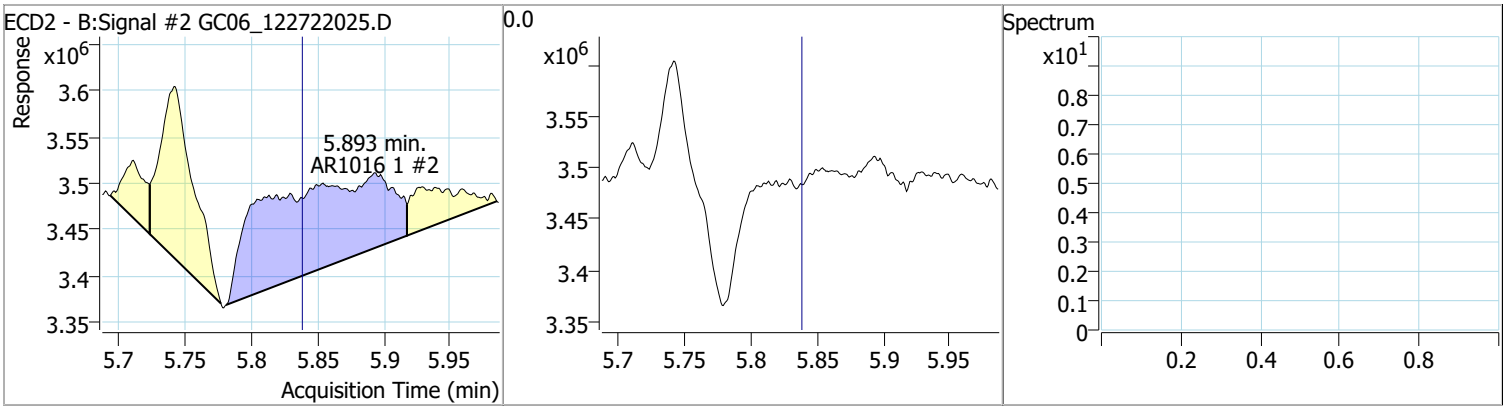
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	35.6155	5.35	0.00	10367595				



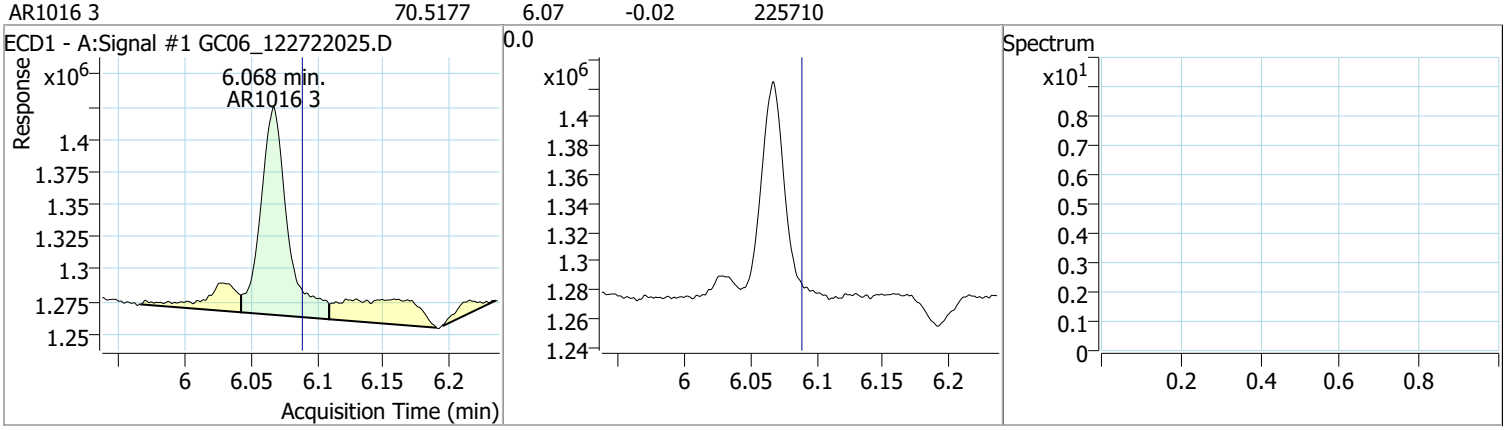
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.61	-0.01	24739				



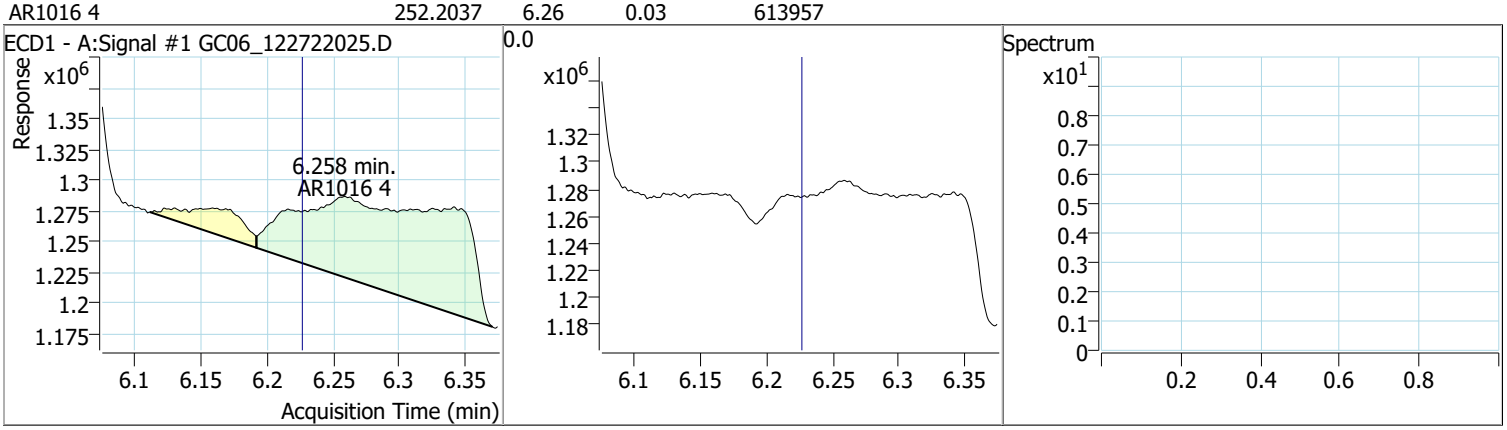
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	100.1810	5.89	0.06	631120				



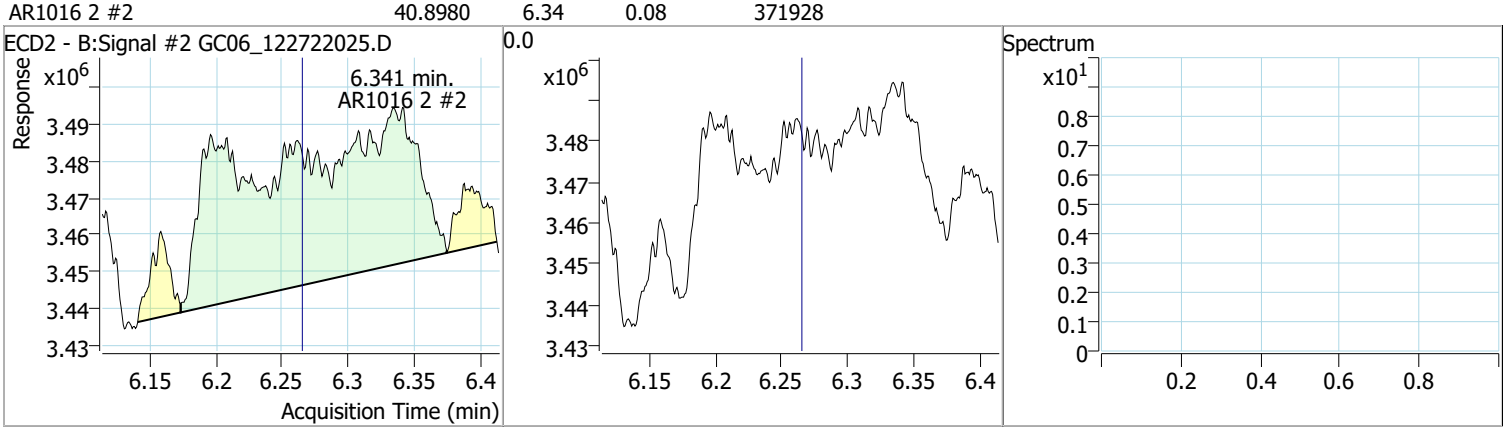
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	70.5177	6.07	-0.02	225710				



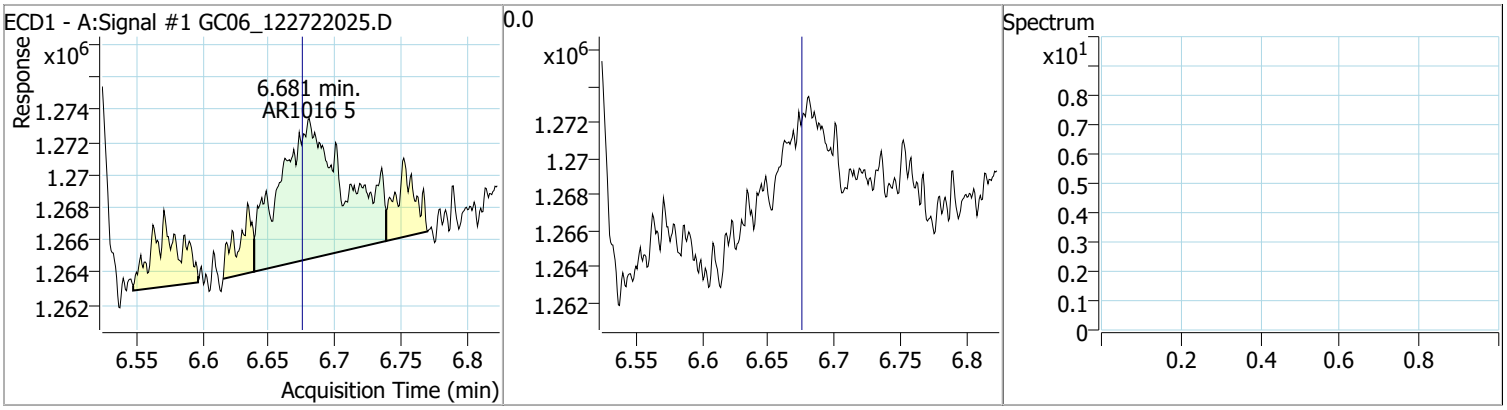
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	252.2037	6.26	0.03	613957				



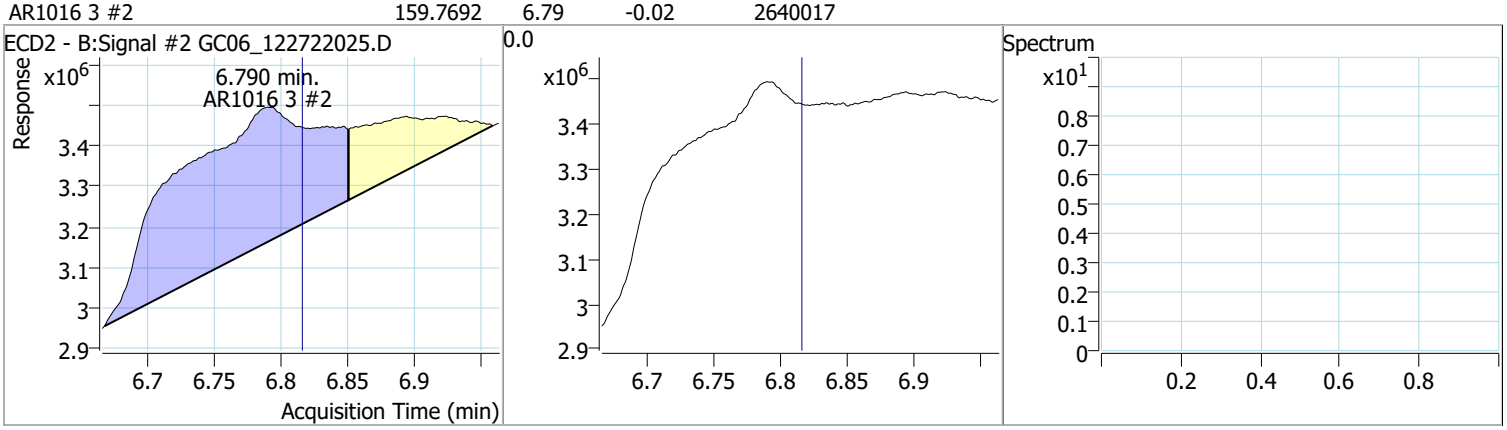
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	40.8980	6.34	0.08	371928				



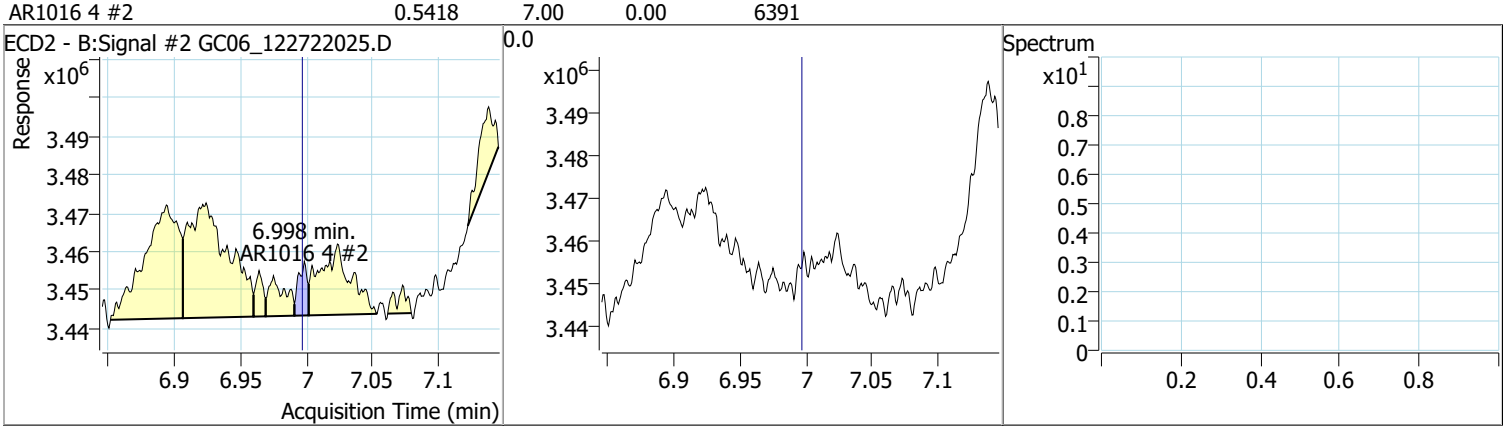
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	15.1540	6.68	0.01	29714				



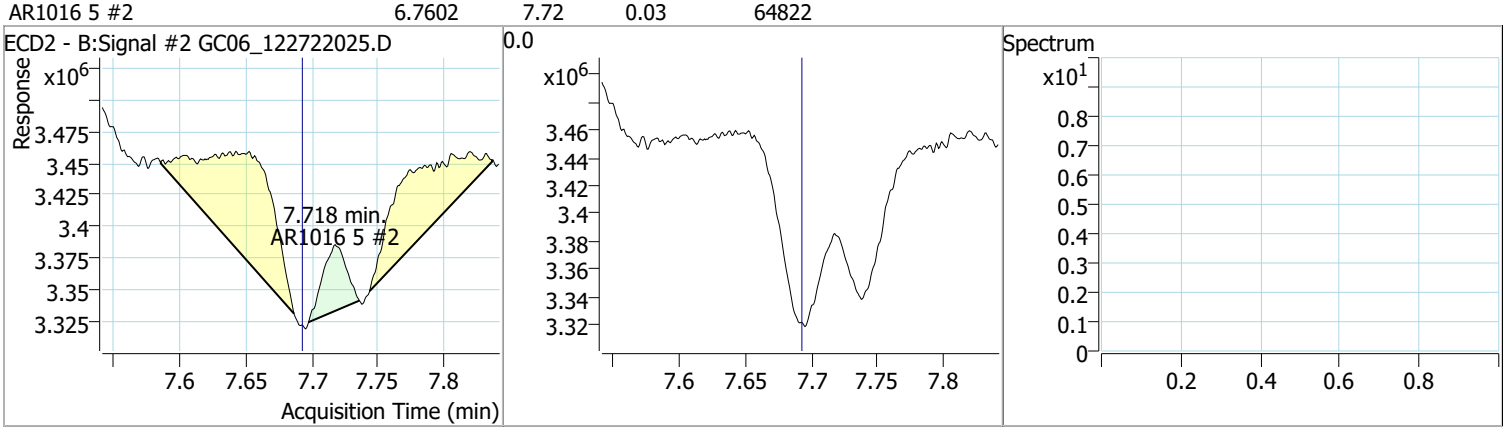
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	159.7692	6.79	-0.02	2640017				



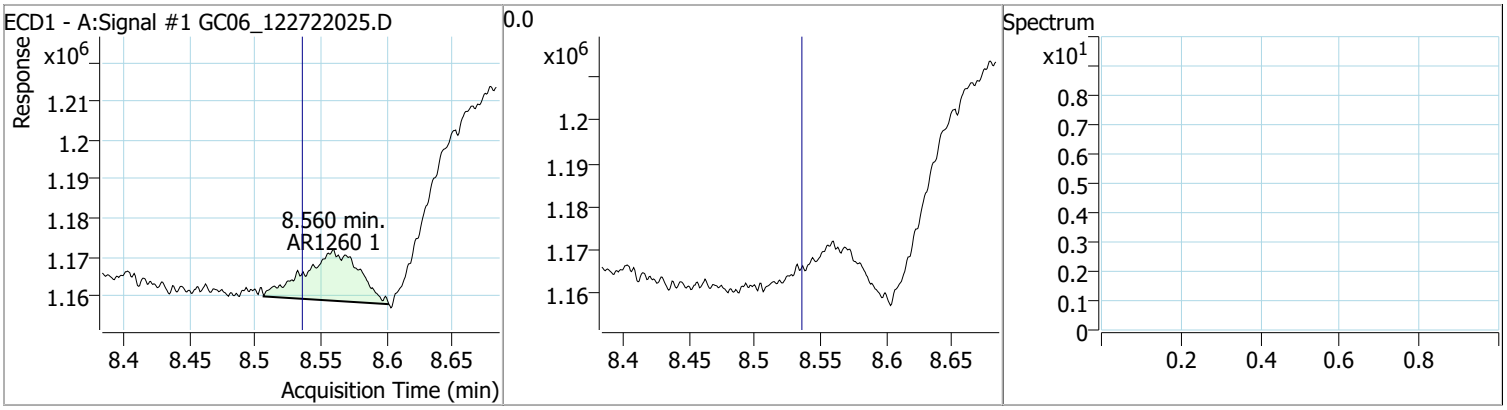
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	0.5418	7.00	0.00	6391				



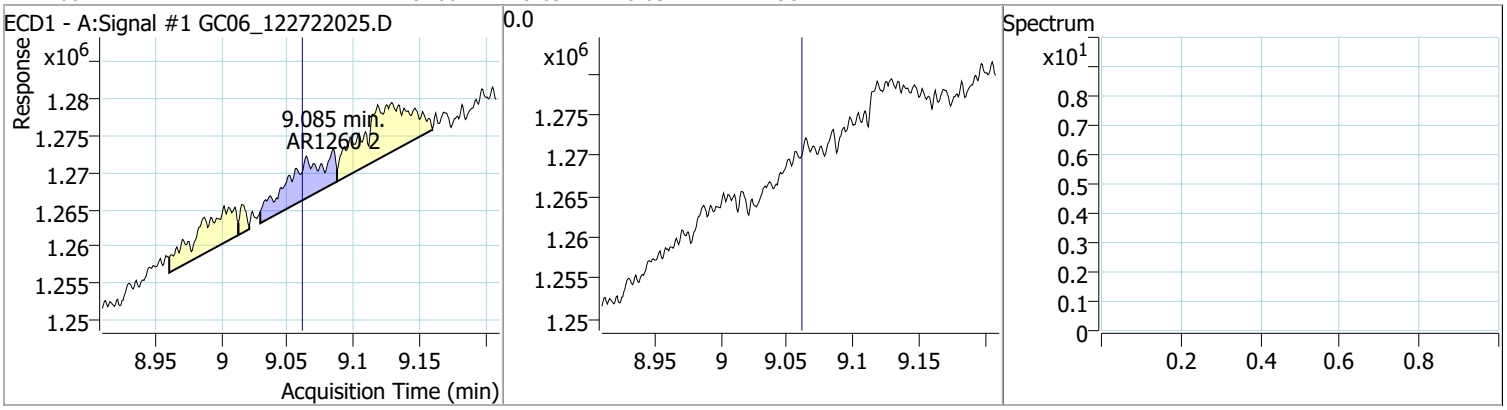
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	6.7602	7.72	0.03	64822				



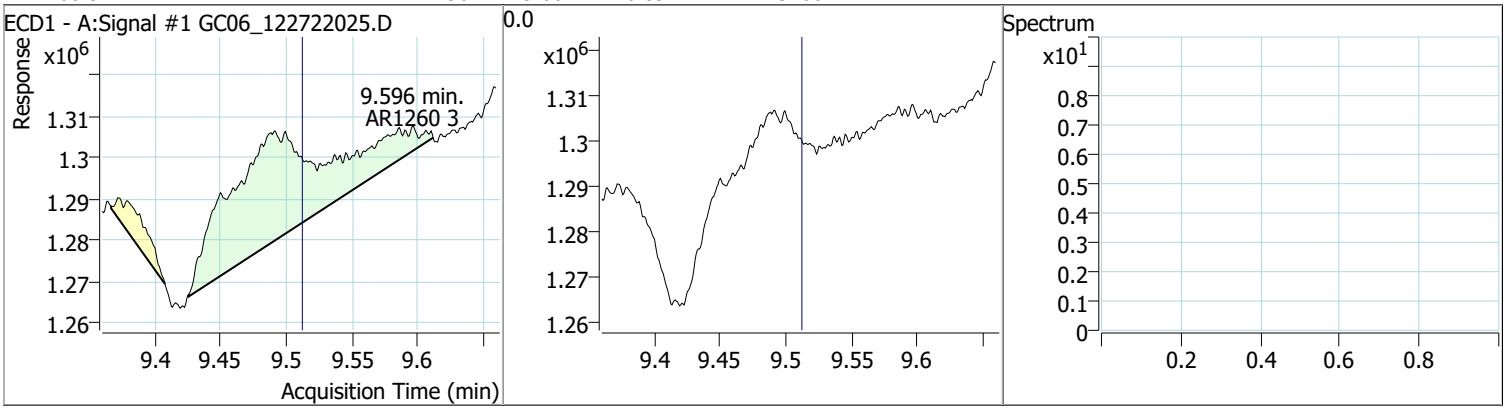
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	9.1223	8.56	0.03	37138				



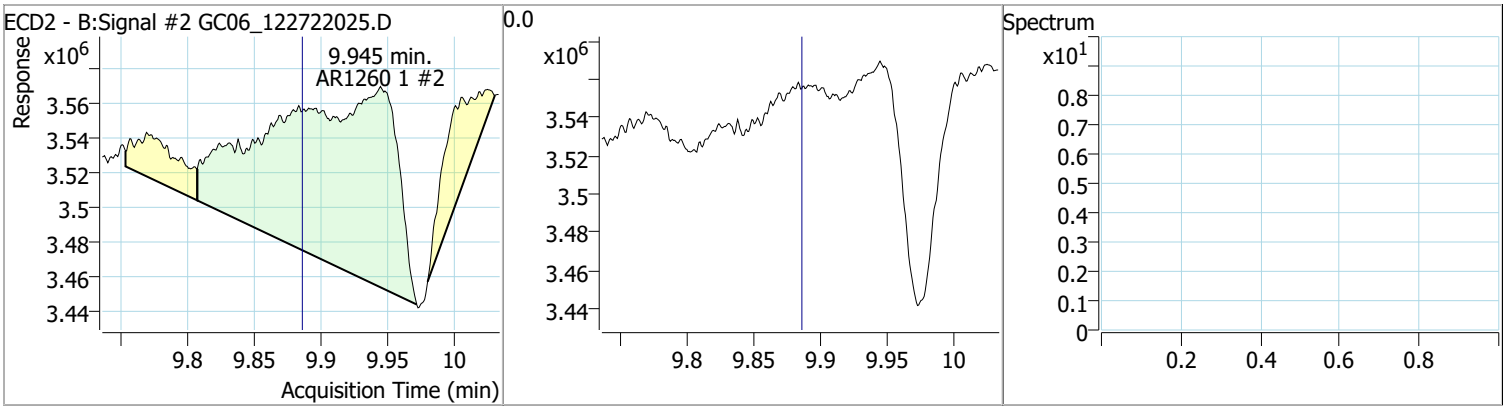
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1.9260	9.09	0.03	11951				



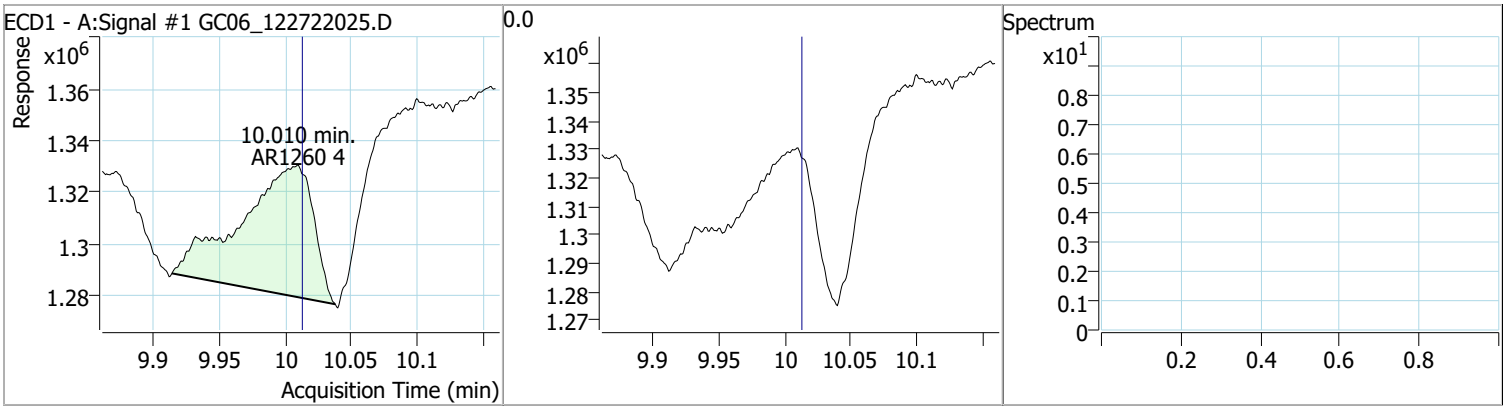
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	22.1195	9.60	0.09	143460				



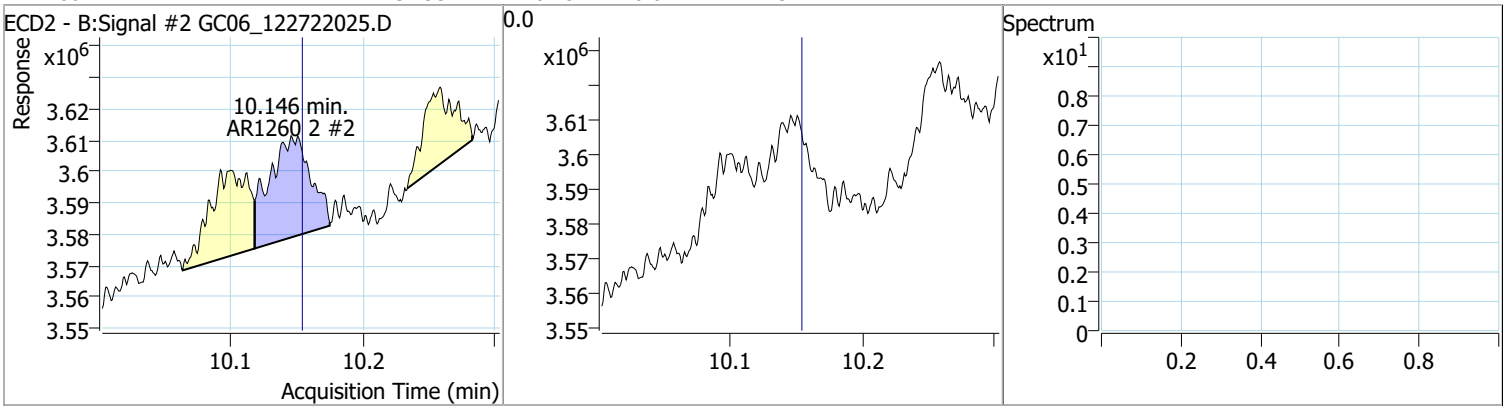
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	37.7702	9.95	0.06	681329				



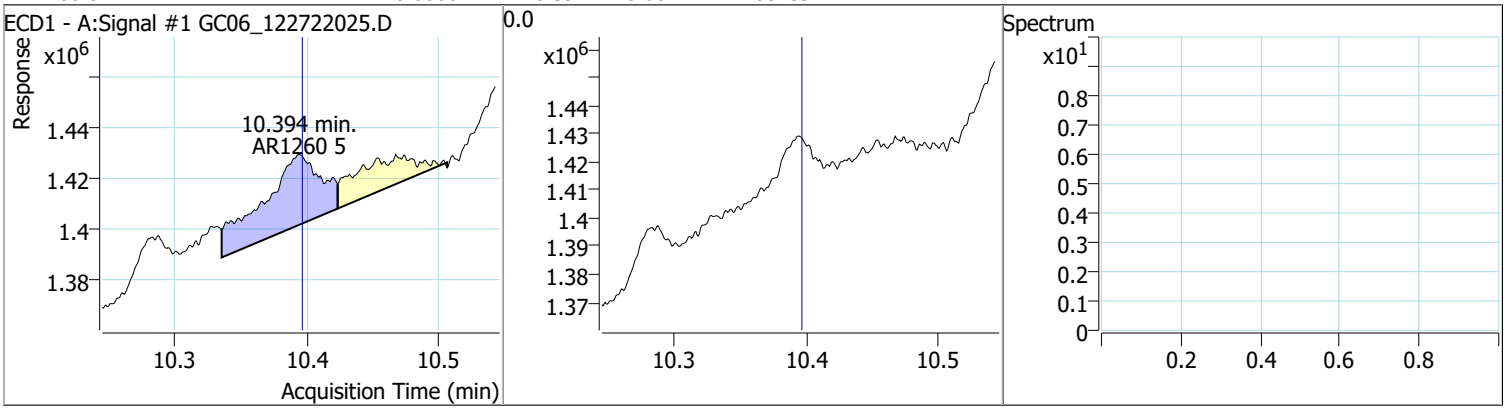
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	40.5534	10.01	0.00	191811				



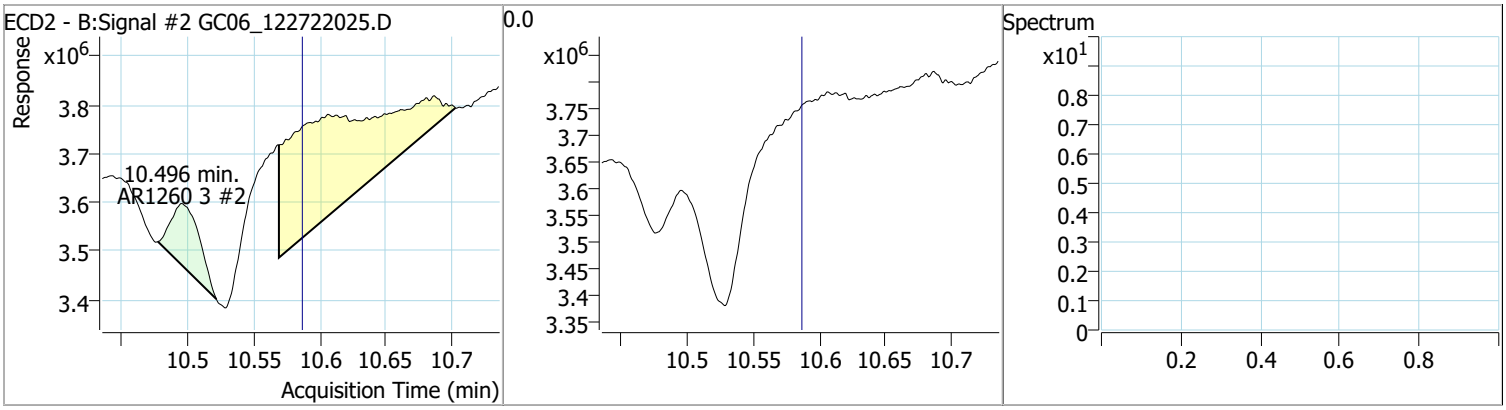
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AR1260 2 #2	3.2931	10.15	-0.01	71374				



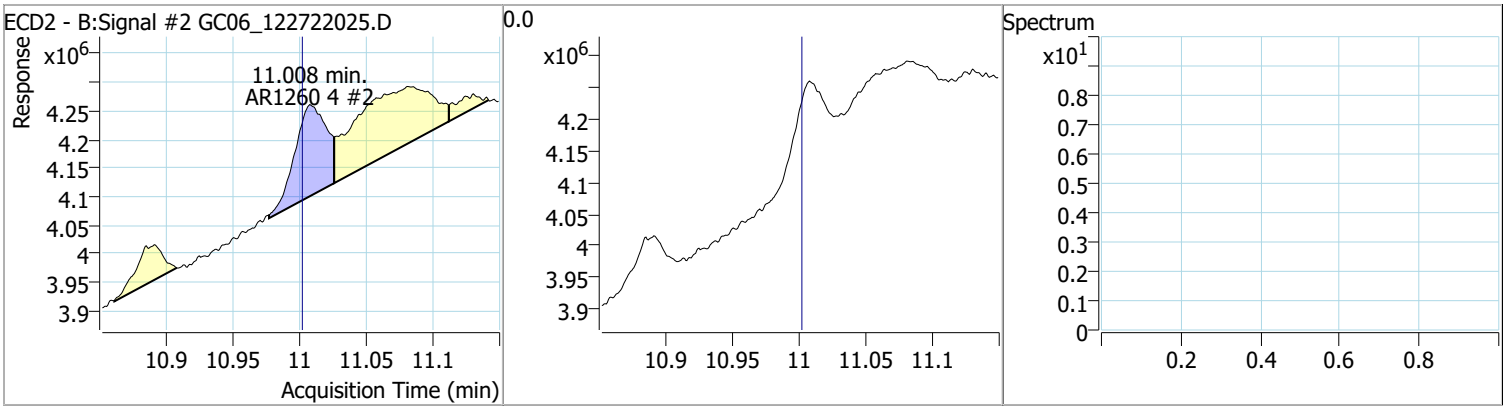
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	0.0000	10.39	0.00	88459				



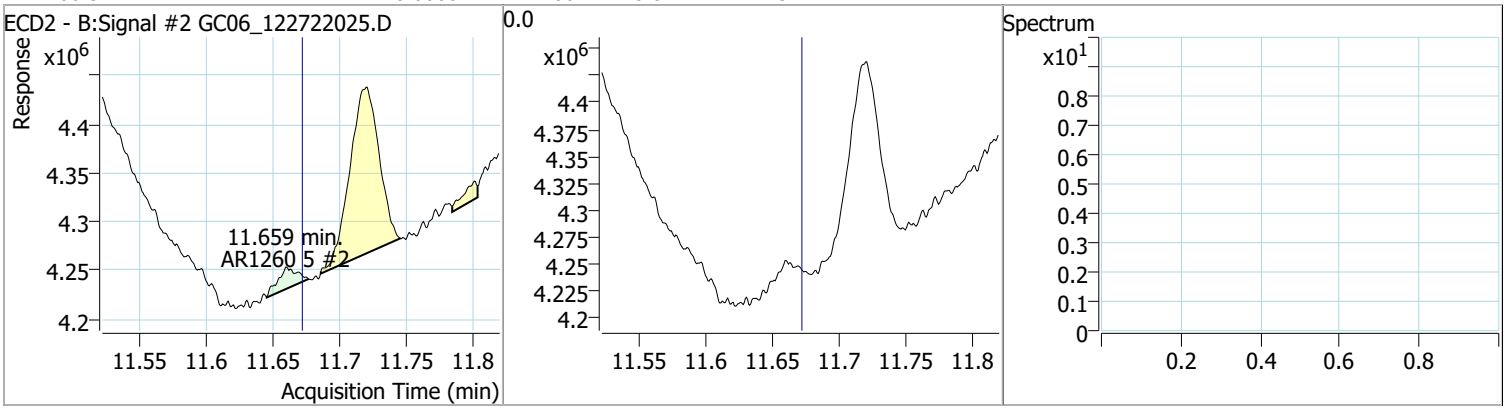
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AR1260 3 #2	7.1406	10.50	-0.09	195900				



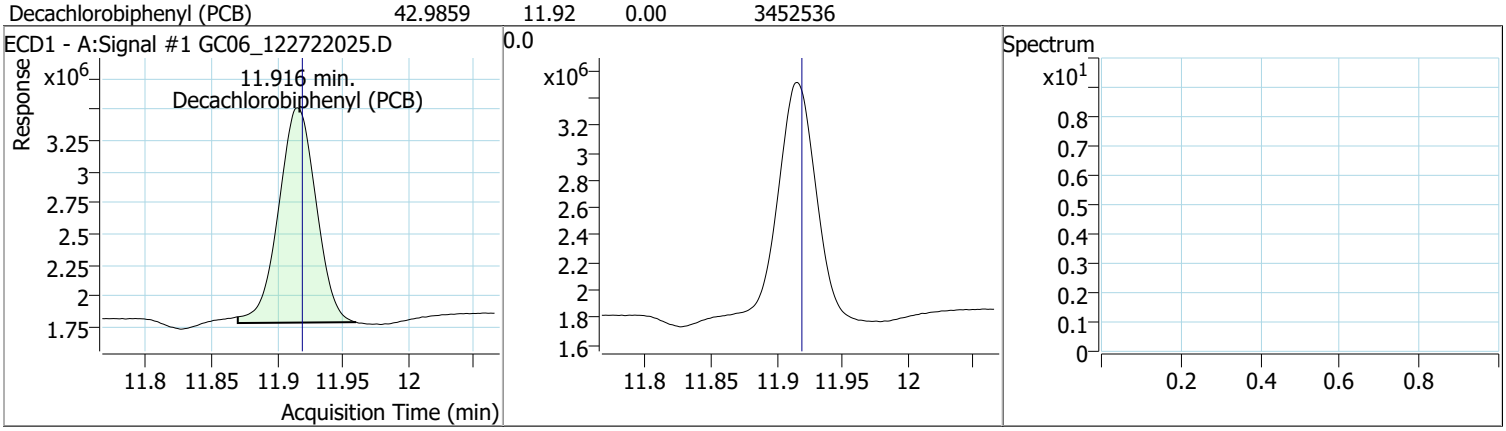
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	0.0000	11.01	0.01	263432				



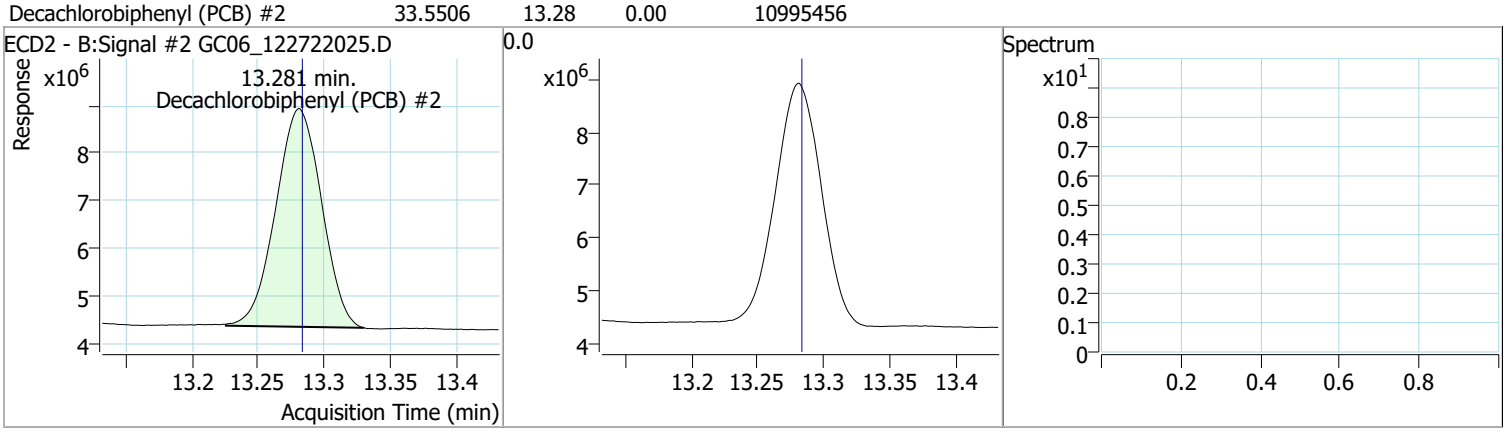
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	0.0000	11.66	-0.01	21547				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	42.9859	11.92	0.00	3452536				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	33.5506	13.28	0.00	10995456				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	475743-004	Client ID:	ARCH-C3W-DG-2 TO 2.5-221221-P-FB
Seqnum:	452520427026.1	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_122722026	Batch:	303863	Time:	27-DEC-2022 16:57
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	63.41	~~0.63~~ ~~FP~~	0.60	6%	0.50		x u
Aroclor-1016 Peak # 1	B	41.29	0.41	0.13	104%			
Aroclor-1016 Peak # 2	B	64.79	0.65	ND	201%			
Aroclor-1016 Peak # 3	B	201.2	2.01	0.67	100%			
Aroclor-1016 Peak # 4	B	3.840	0.04	2.02	193%			
Aroclor-1016 Peak # 5	B	5.892	0.06	0.16	92%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	7.692	ND	0.19	84%	0.50		u
Aroclor-1260 Peak # 1	B	45.35	0.45	0.30	42%			
Aroclor-1260 Peak # 2	B	5.639	0.06	0.02	115%			
Aroclor-1260 Peak # 3	B	9.030	0.09	0.03	113%			
Aroclor-1260 Peak # 4	B	-4.723	ND	0.72	228%			
Aroclor-1260 Peak # 5	B	-16.84	ND	ND	-43%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	27.60	0.5000	0.2760	55	19-121	u
Decachlorobiphenyl (PCB)	B	26.97	0.5000	0.2697	54	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_122722004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6120897	5728295	-6.41
1-bromo-2-nitrobenzene (PCB)	A	1313242	1086030	-17.30

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

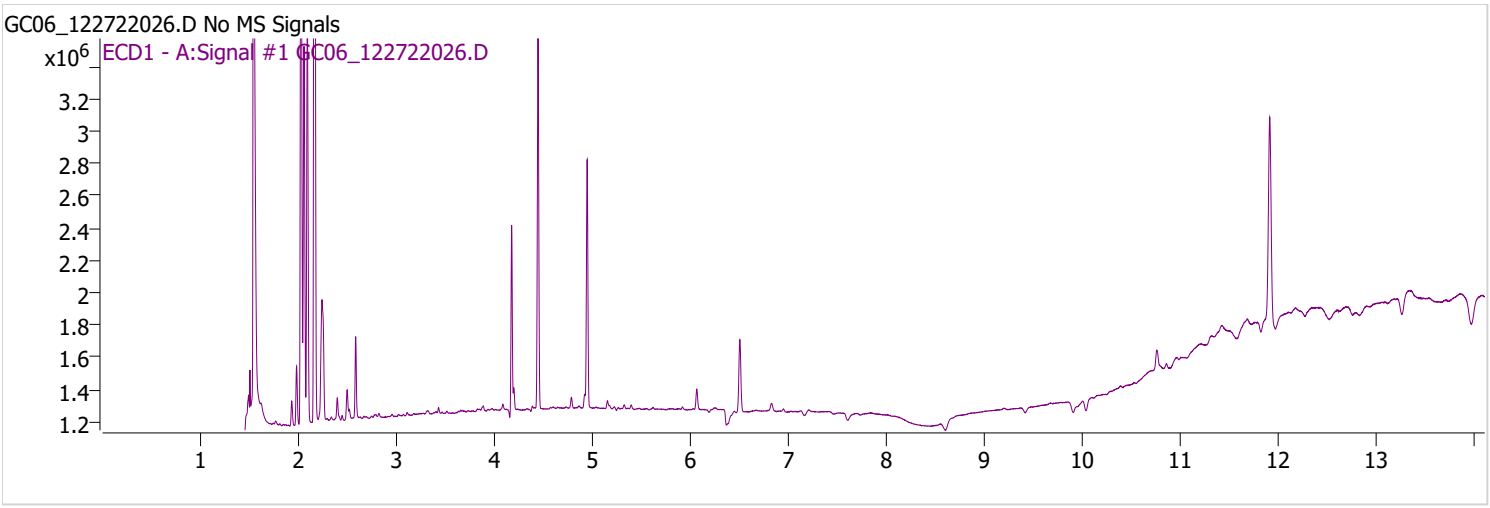
ISTD (CCV gc06_122722004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.42	4.42	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

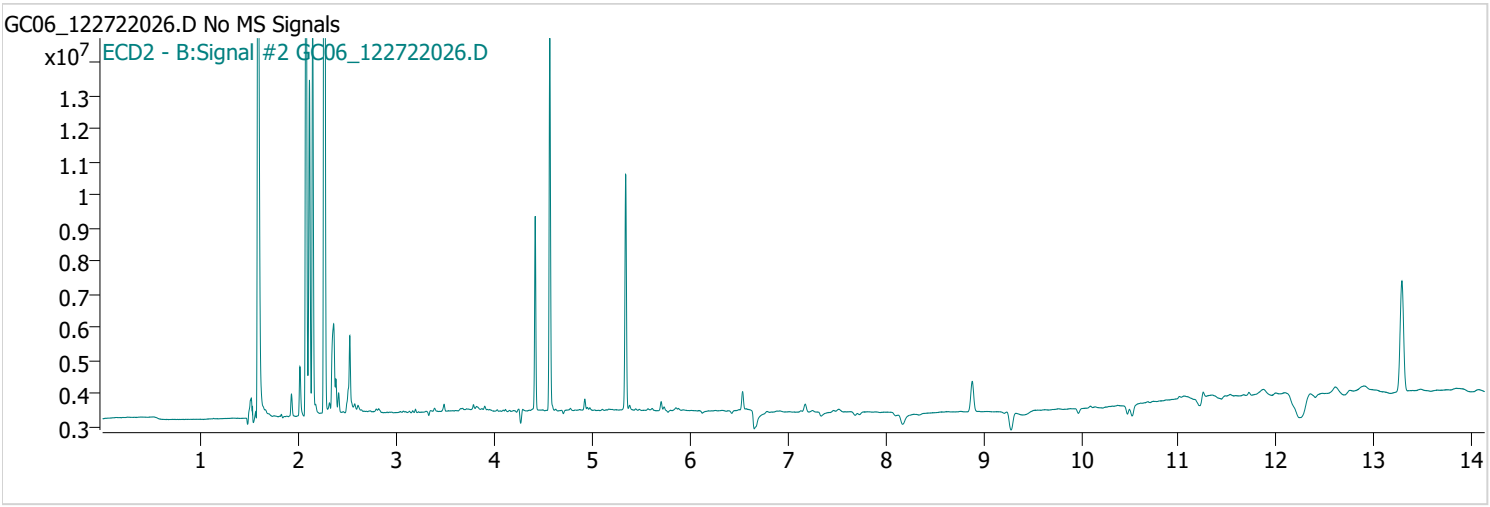
Analyst: MES 12/28/22 *

Reviewer: LW 12/30/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_122722026.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/27/2022 4:57:53 PM
Sample Name	475743-004, 303863, 1	Instrument	SVOA-GC06
Vial	15	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_14a.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	122722PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



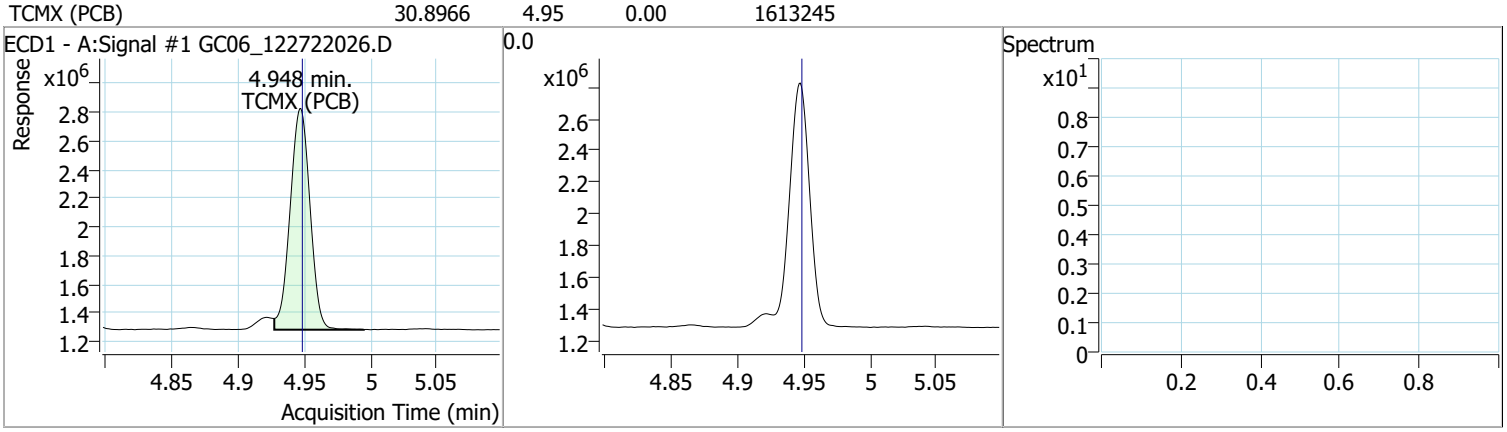


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.177	0.0	1086030.102	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.423	0.0	5728295.286	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.948	0.0	1613244.984	30.8966	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 154.48%		*	
S TCMX (PCB) #2	5.347	0.0	7591836.793	27.5968	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 137.98%			
S Decachlorobiphenyl (PCB)	11.915	0.0	2686942.949	36.4985	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 182.49%		*	
S Decachlorobiphenyl (PCB) #2	13.281	0.0	8473476.179	26.9690	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 134.84%			
Target Compounds							QValue

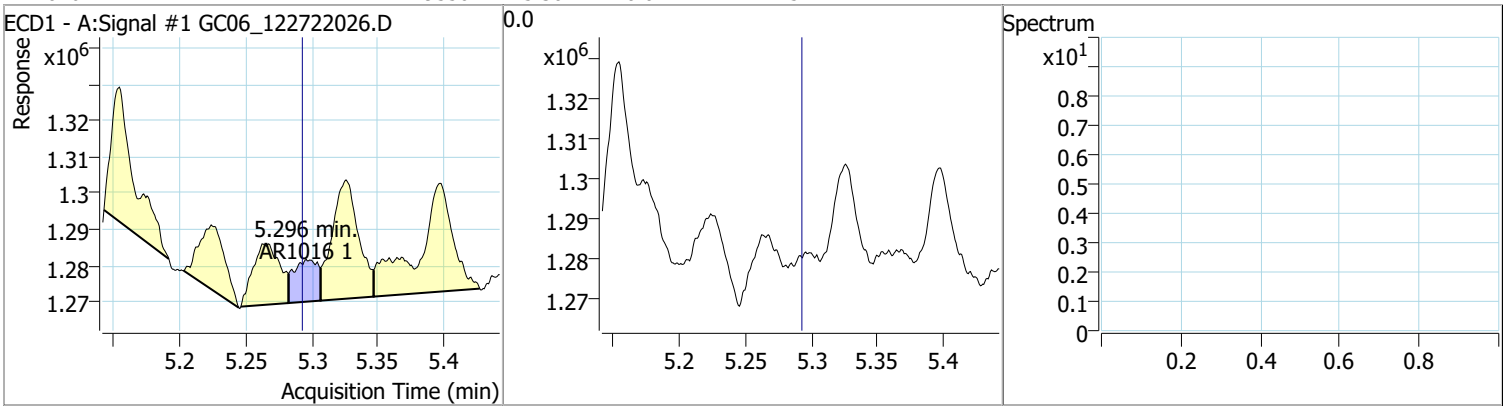
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.296	0.0	14750.842	12.9550	ng/ml	100
T AR1016 2	5.620	0.0	34601.003	0.0000	ng/ml	100
T AR1016 1 #2	5.863	0.0	245831.465	41.2916	ng/ml	100
T AR1016 3	6.067	0.0	194813.761	67.4826	ng/ml	100
T AR1016 4	6.243	0.0	444023.722	202.2293	ng/ml	100
T AR1016 2 #2	6.334	0.0	556806.527	64.7886	ng/ml	100
T AR1016 5	6.669	0.0	28182.510	15.9359	ng/ml	100
T AR1016 3 #2	6.924	0.0	3142433.931	201.2350	ng/ml	100
T AR1016 4 #2	7.022	0.0	42806.089	3.8397	ng/ml	100
T AR1016 5 #2	7.718	0.0	53390.803	5.8919	ng/ml	100
T AR1260 1	8.557	0.0	108414.079	29.5254	ng/ml	100
T AR1260 2	9.088	0.0	8452.609	1.5103	ng/ml	100
T AR1260 3	9.372	0.0	14655.845	2.5054	ng/ml	100
T AR1260 1 #2	9.898	0.0	773133.859	45.3522	ng/ml	100
T AR1260 4	10.007	0.0	269081.841	71.6509	ng/ml	100
T AR1260 2 #2	10.143	0.0	115503.842	5.6391	ng/ml	100
T AR1260 5	10.397	0.0	47218.537	0.0000	ng/ml	100
T AR1260 3 #2	10.496	0.0	234134.072	9.0306	ng/ml	100
T AR1260 4 #2	11.008	0.0	269379.596	0.0000	ng/ml	100
T AR1260 5 #2	11.668	0.0	39334.571	0.0000	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

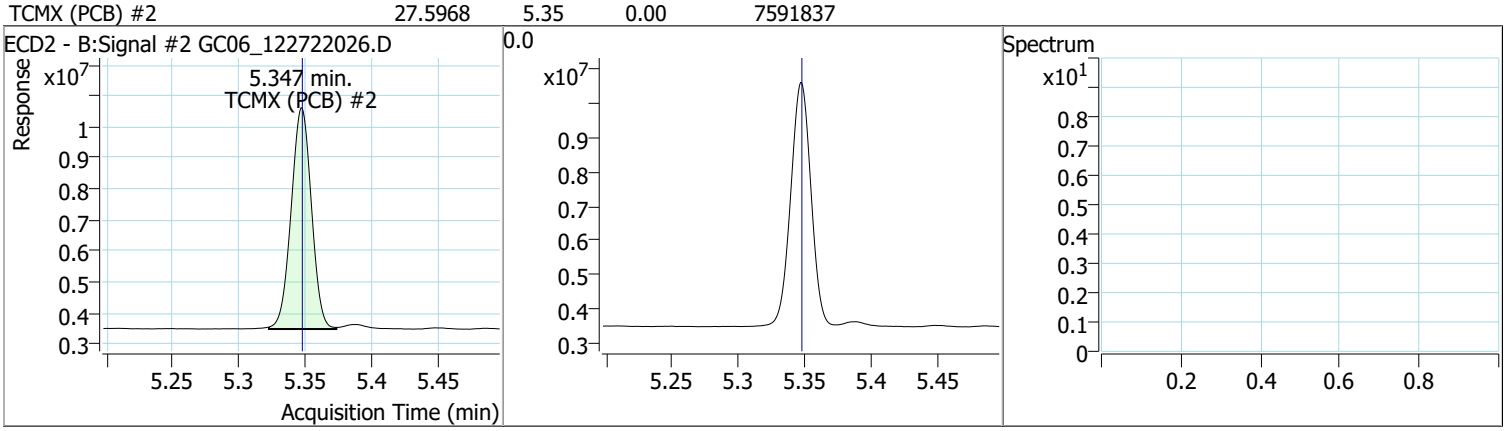
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	30.8966	4.95	0.00	1613245				



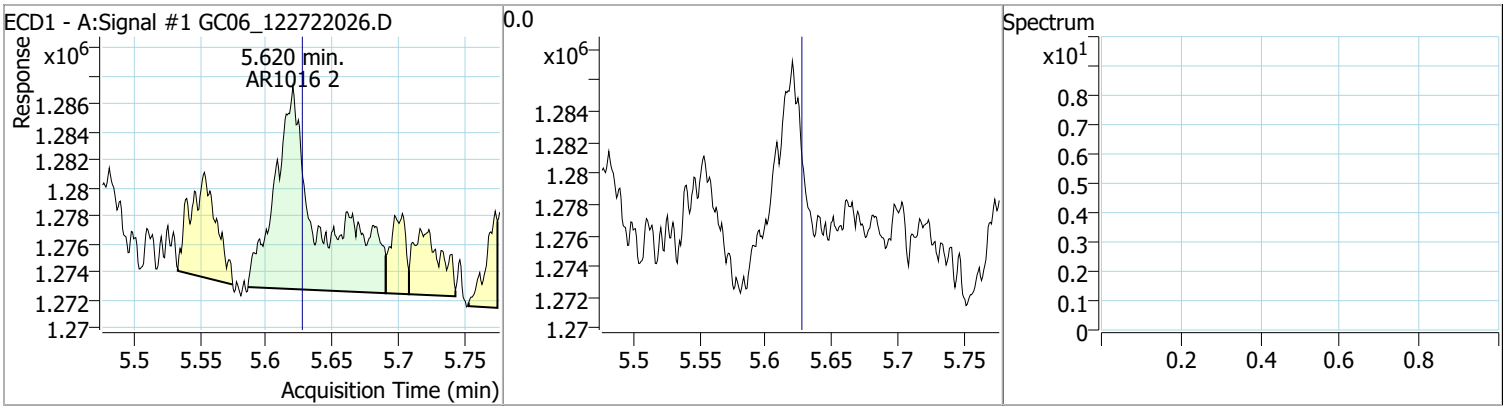
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	12.9550	5.30	0.01	14751				



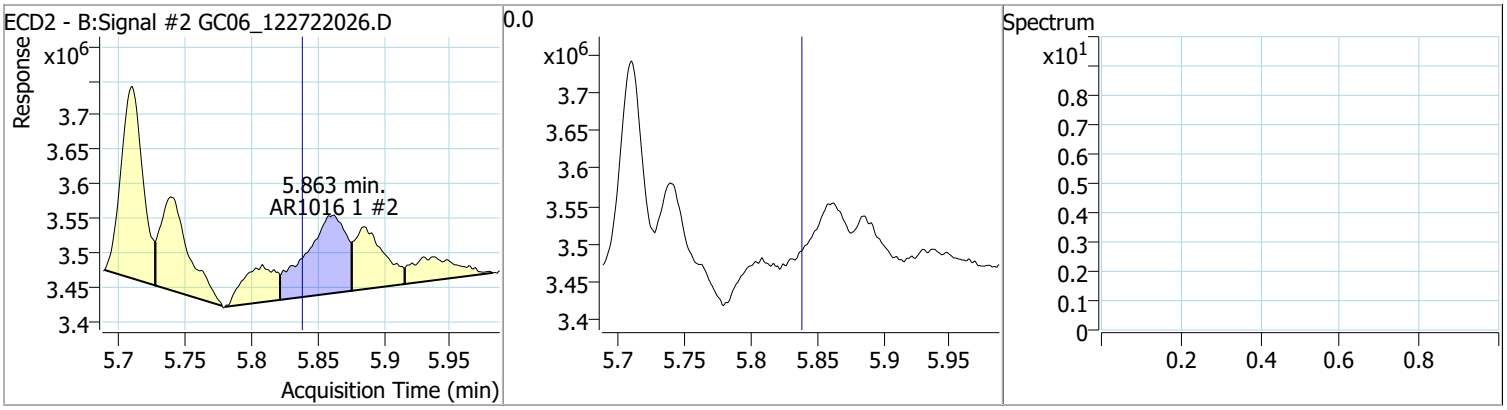
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	27.5968	5.35	0.00	7591837				



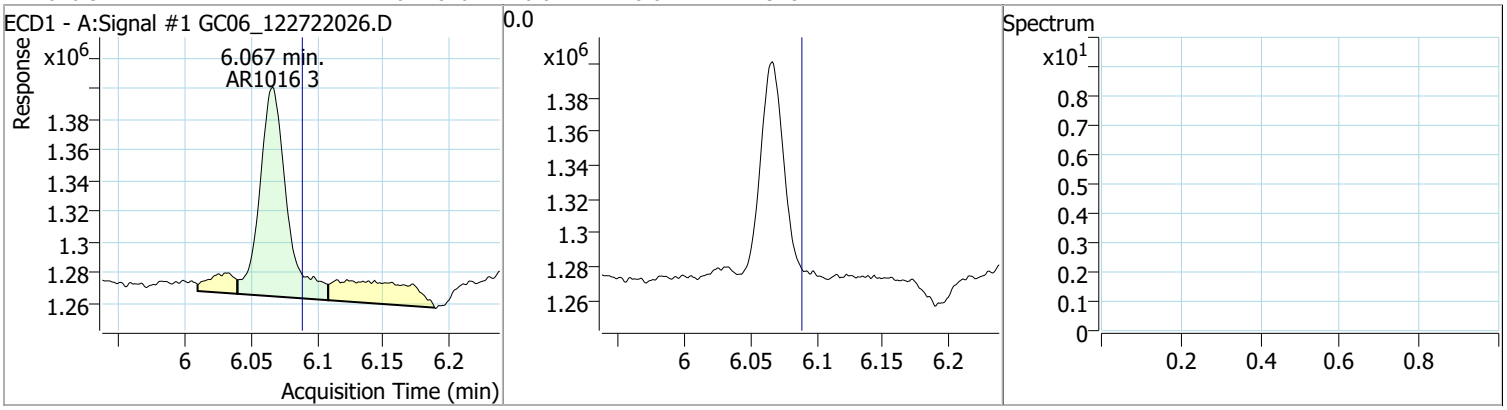
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.62	0.00	34601				



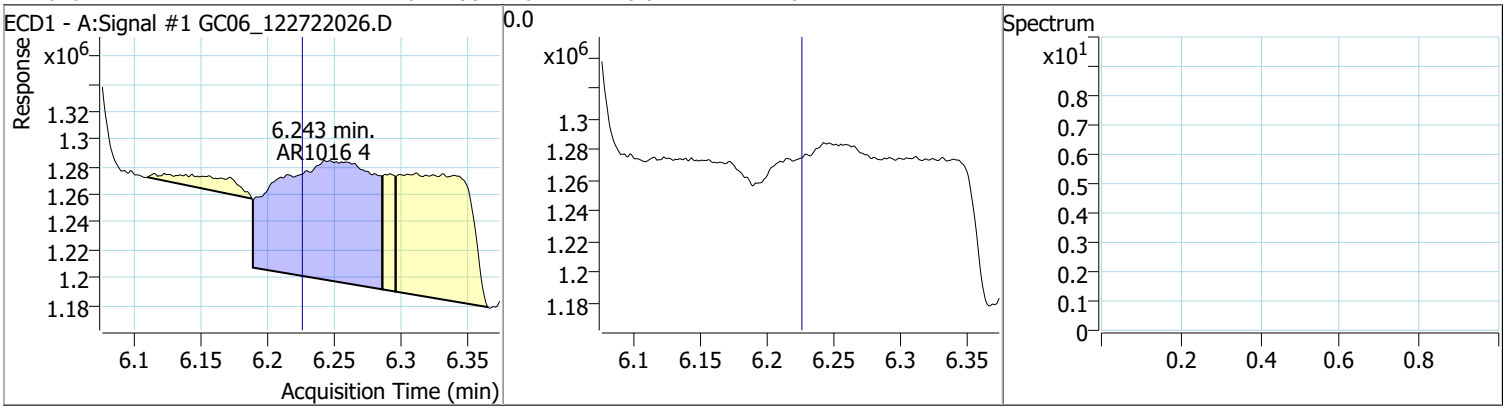
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	41.2916	5.86	0.03	245831				



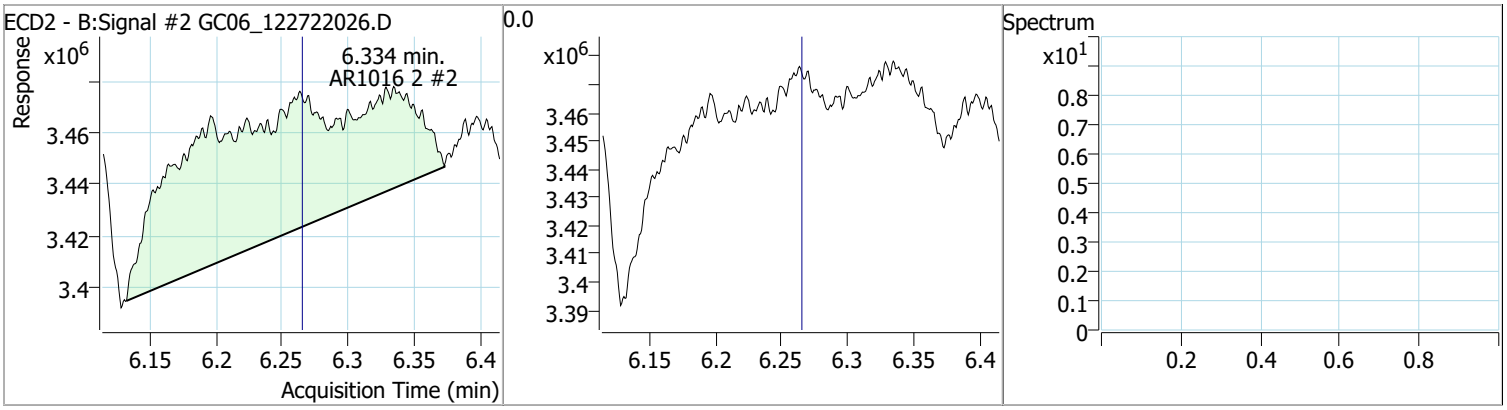
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	67.4826	6.07	-0.02	194814				



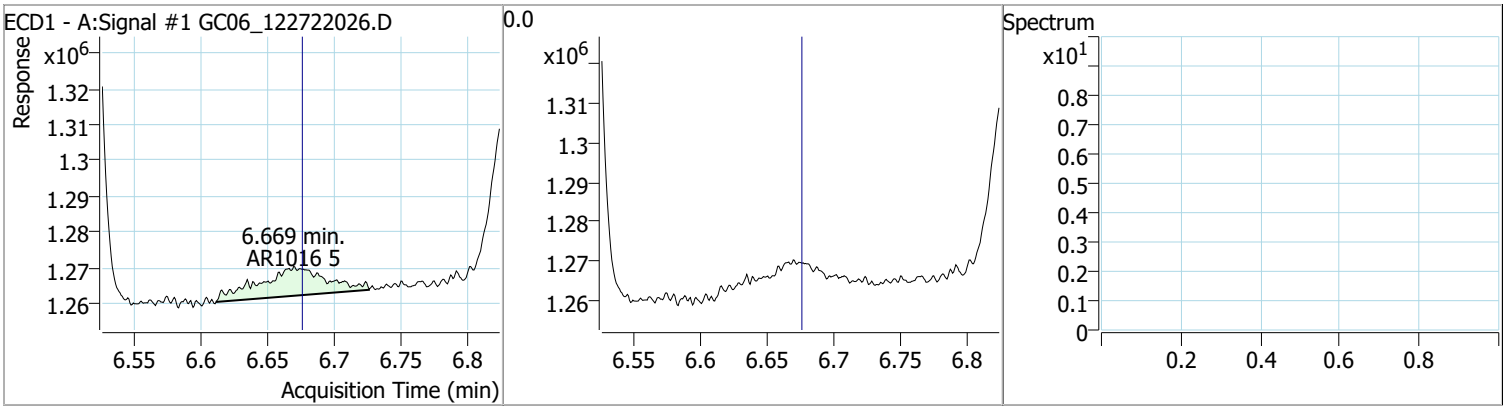
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	202.2293	6.24	0.02	444024				



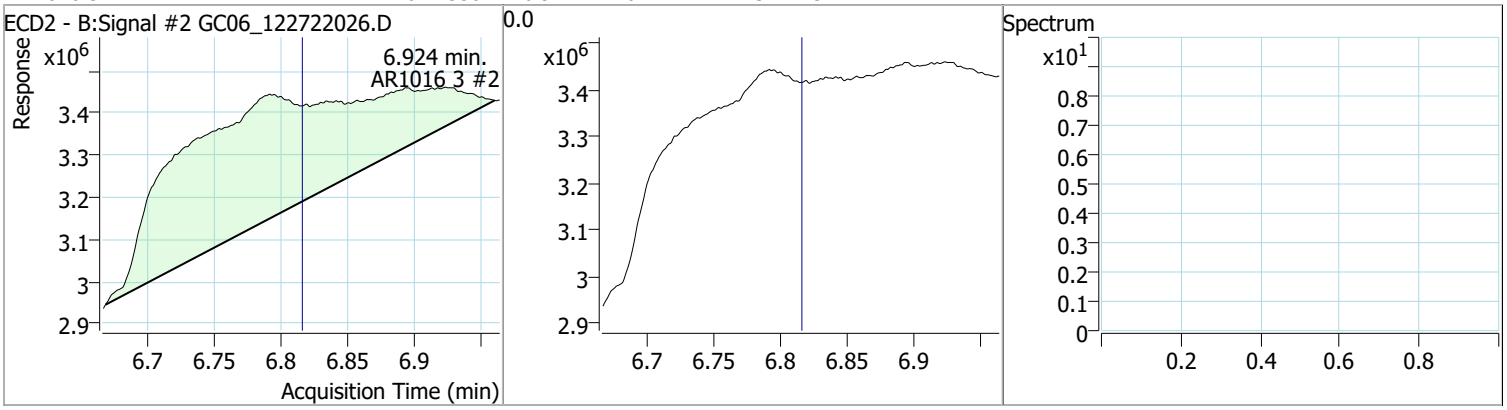
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	64.7886	6.33	0.07	556807				



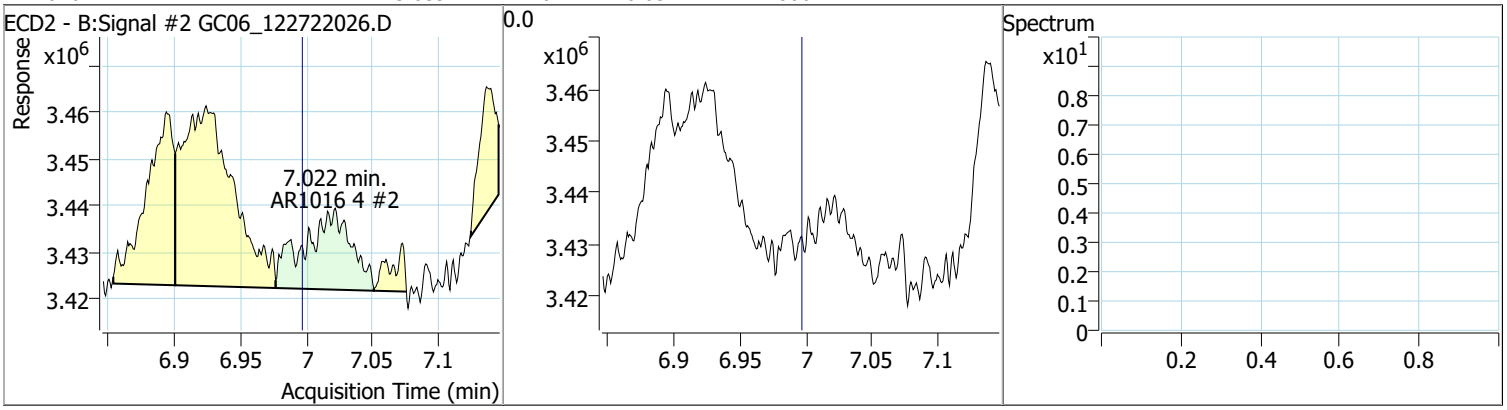
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	15.9359	6.67	0.00	28183				



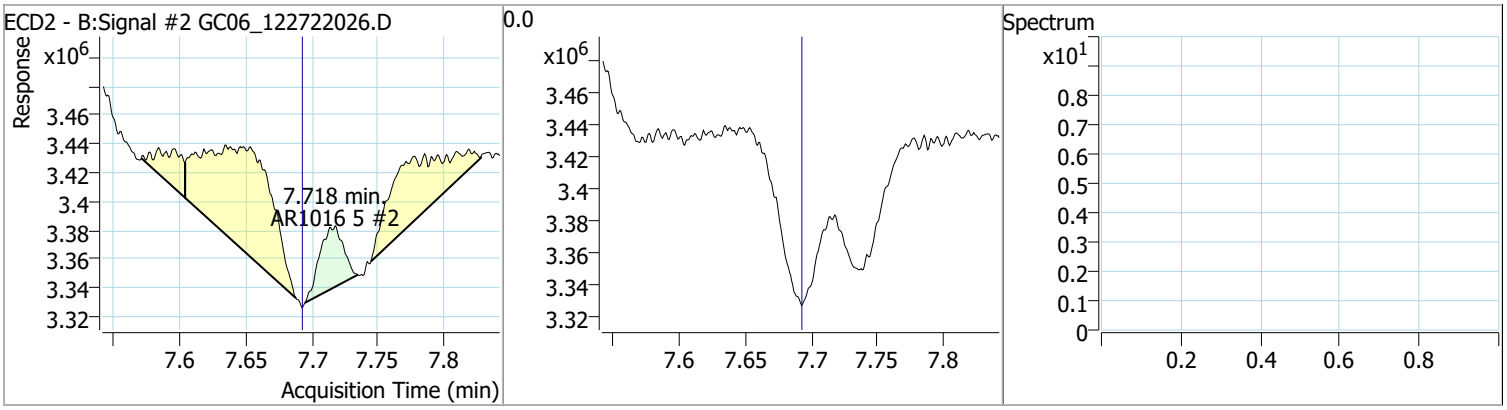
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	201.2350	6.92	0.11	3142434				



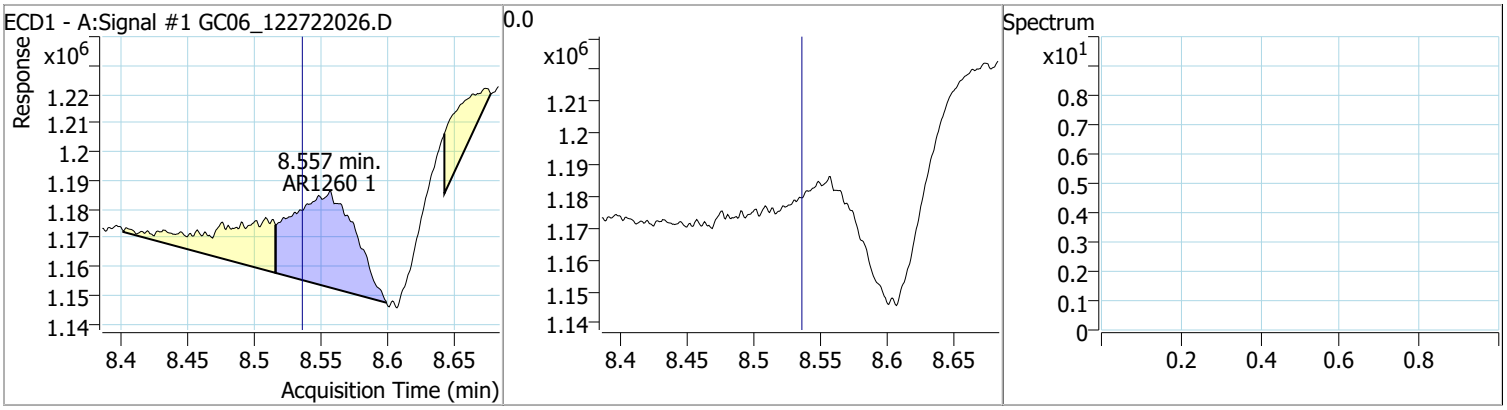
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	3.8397	7.02	0.03	42806				



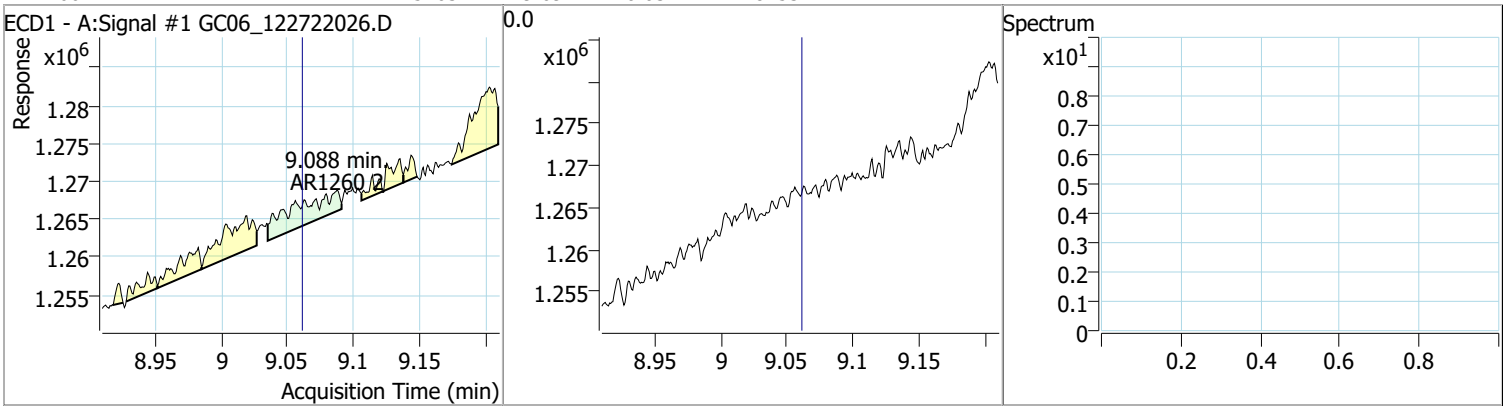
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	5.8919	7.72	0.03	53391				



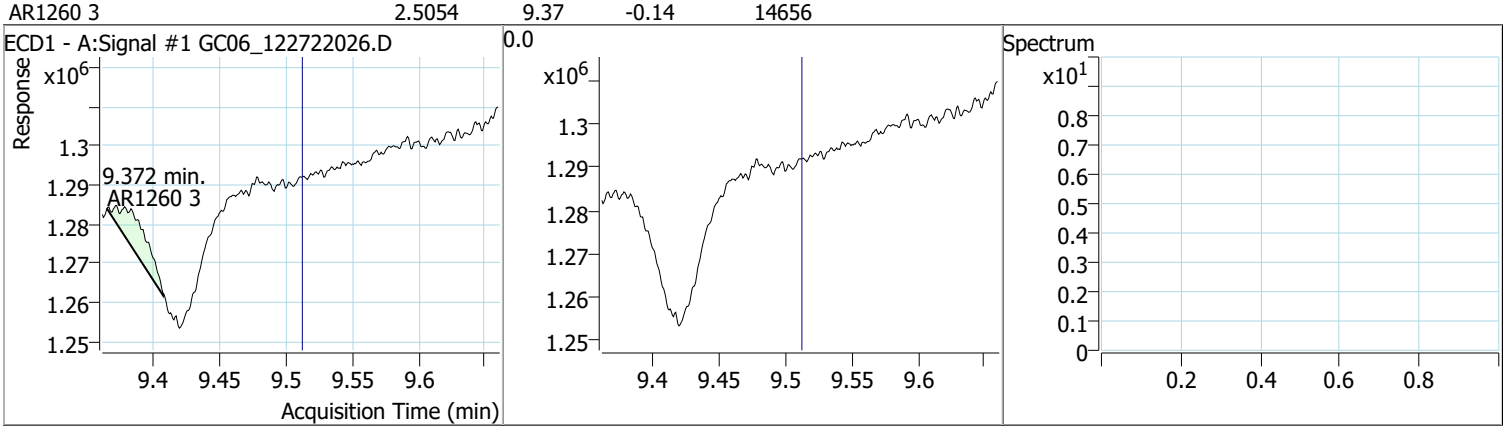
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	29.5254	8.56	0.02	108414				



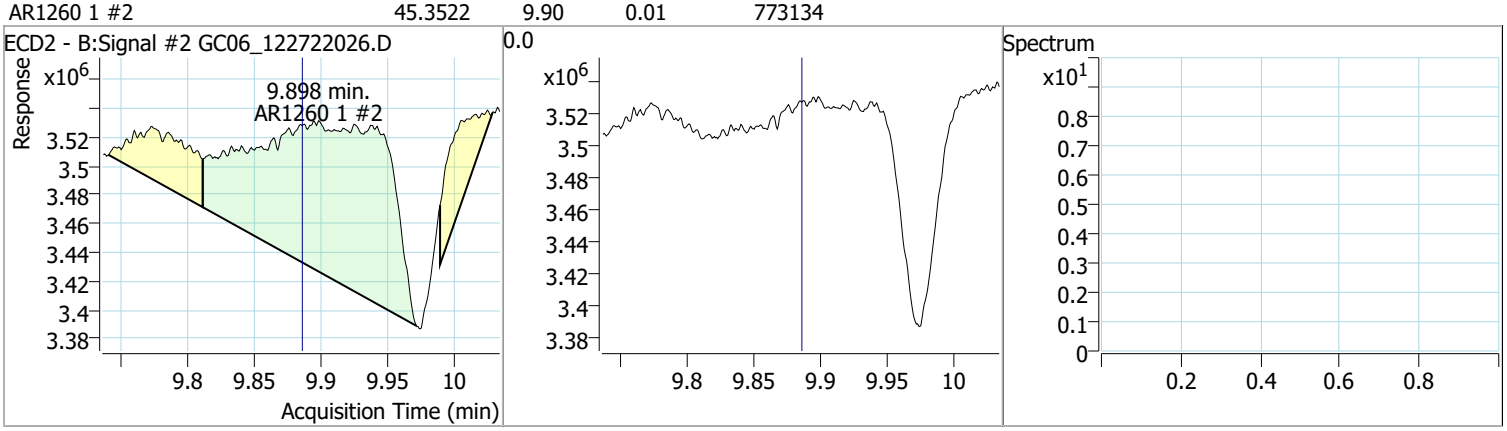
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1.5103	9.09	0.03	8453				



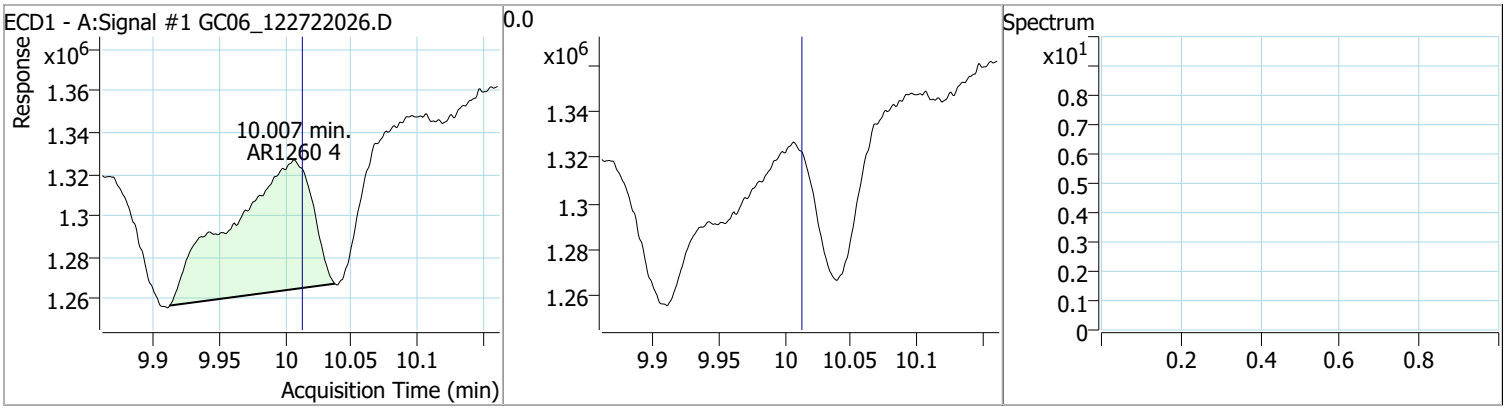
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	2.5054	9.37	-0.14	14656				



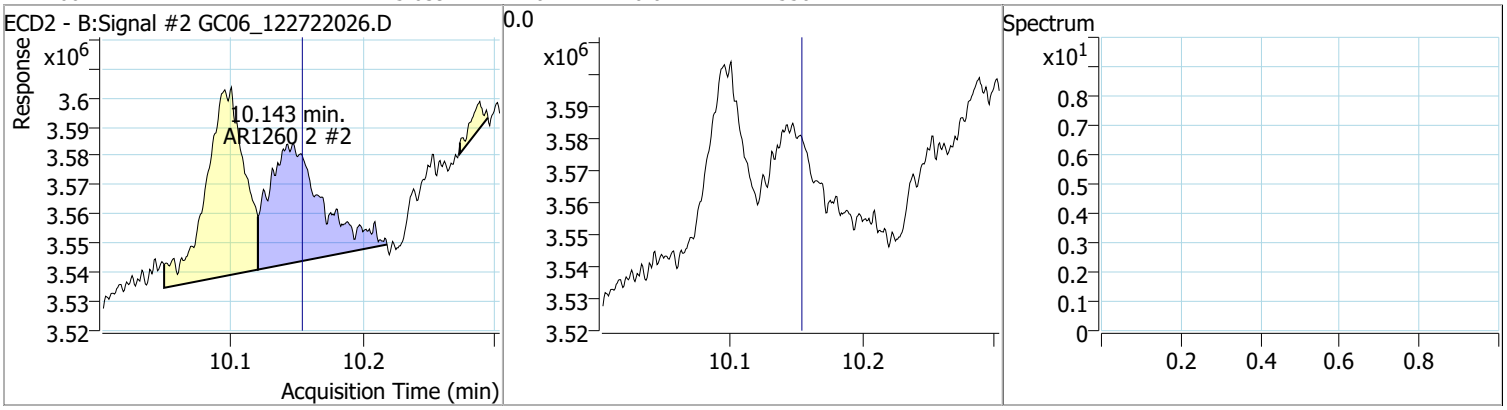
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	45.3522	9.90	0.01	773134				



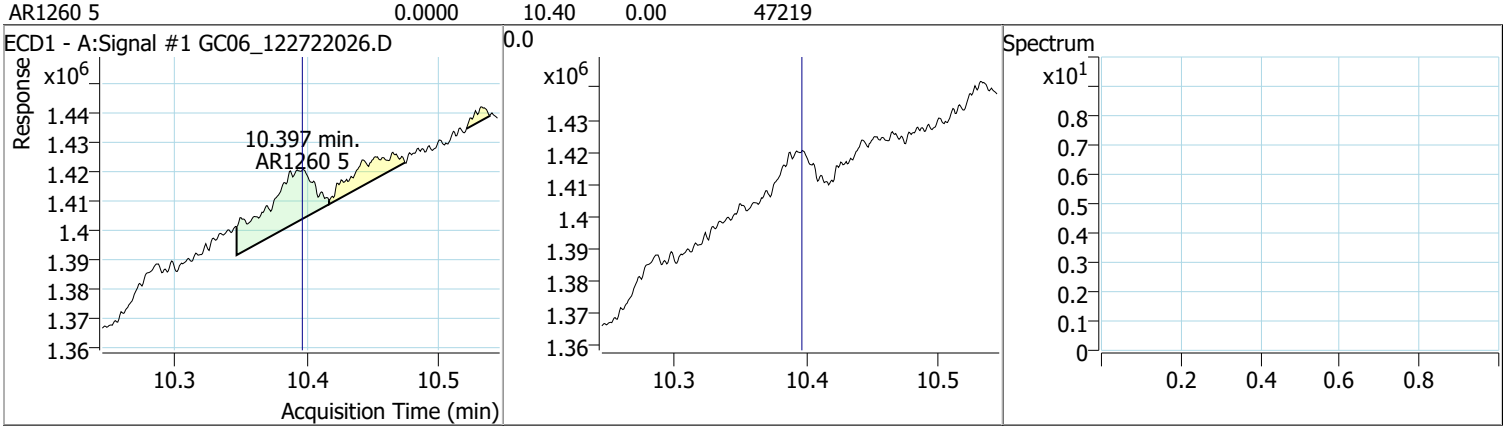
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	71.6509	10.01	0.00	269082				



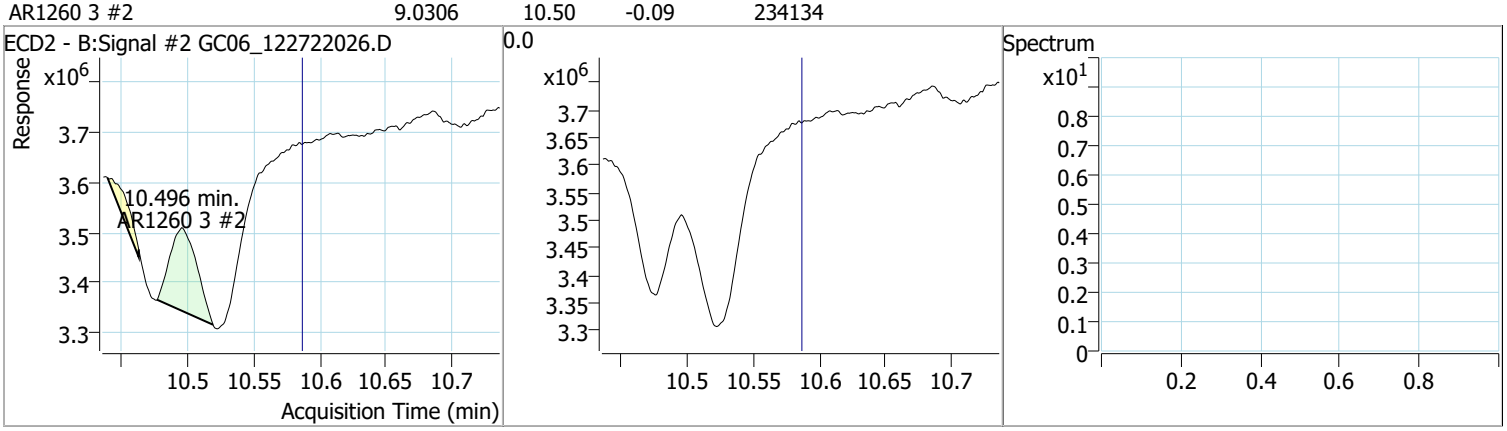
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	5.6391	10.14	-0.01	115504				



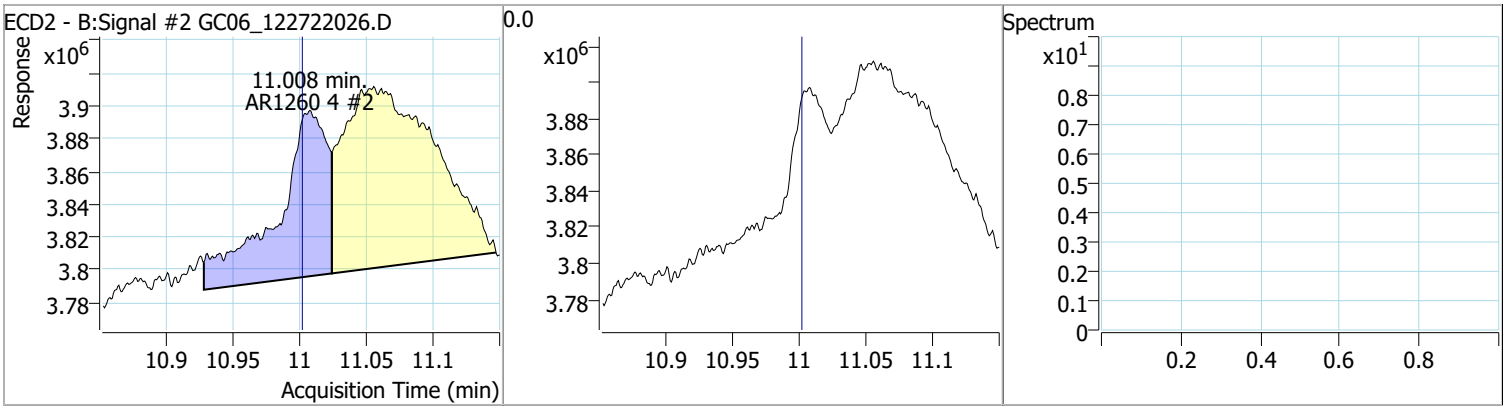
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	0.0000	10.40	0.00	47219				



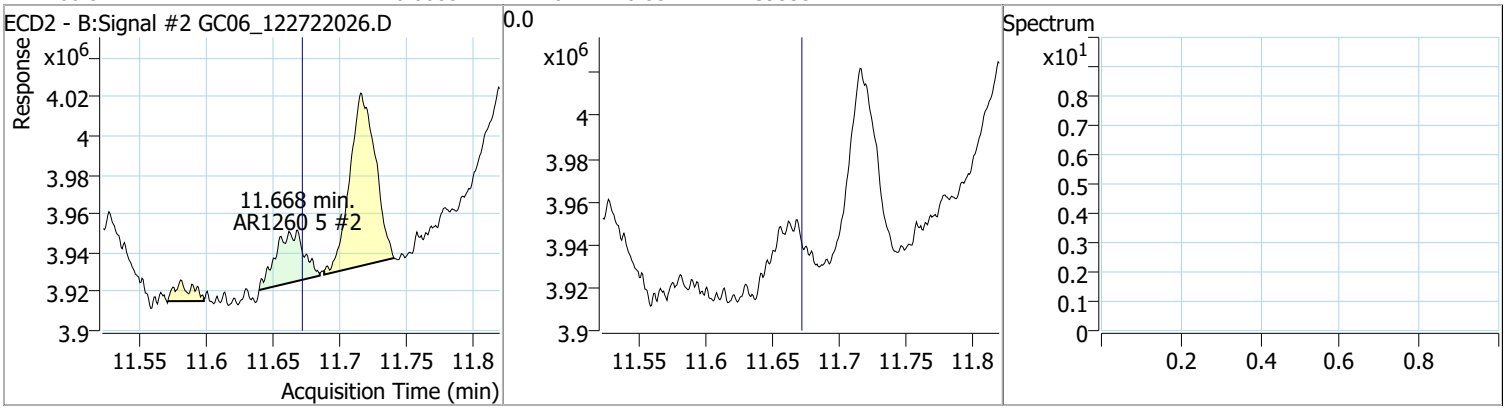
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	9.0306	10.50	-0.09	234134				



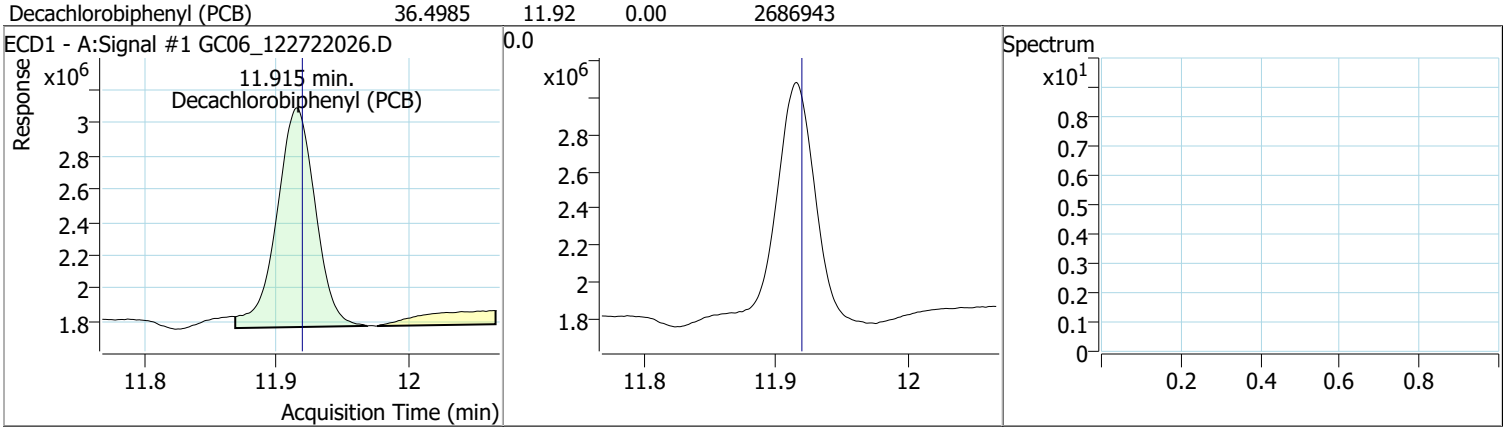
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	0.0000	11.01	0.01	269380				



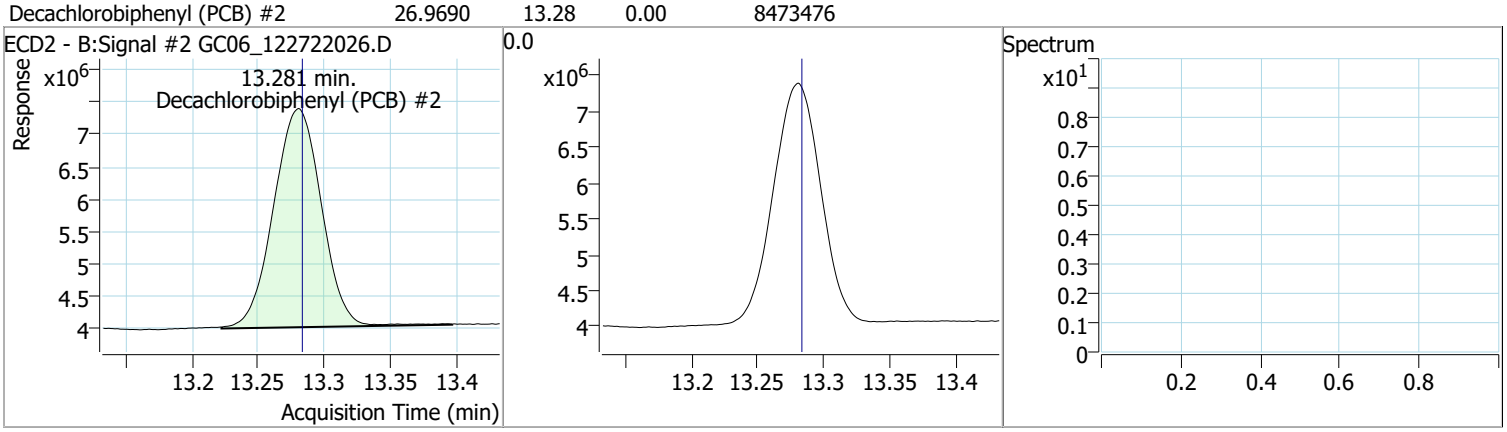
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	0.0000	11.67	0.00	39335				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	36.4985	11.92	0.00	2686943				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	26.9690	13.28	0.00	8473476				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	475743-007	Client ID:	ARCH-C4W-DG-2 TO 2.5-221221-P-FB
Seqnum:	452520427027.1	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_122722027	Batch:	303863	Time:	27-DEC-2022 17:16
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	88.49	~~0.88~~ ~~FP~~	0.72	20%	0.50		x u
Aroclor-1016 Peak # 1	B	114.9	1.15	1.14	1%			
Aroclor-1016 Peak # 2	B	39.86	0.40	ND	223%			
Aroclor-1016 Peak # 3	B	225.7	2.26	0.81	94%			
Aroclor-1016 Peak # 4	B	1.478	0.01	1.54	196%			
Aroclor-1016 Peak # 5	B	60.51	0.61	0.13	128%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	9.422	ND	ND	1%	0.50		u
Aroclor-1260 Peak # 1	B	52.17	0.52	0.15	112%			
Aroclor-1260 Peak # 2	B	3.474	0.03	0.00	170%			
Aroclor-1260 Peak # 3	B	6.845	0.07	0.12	53%			
Aroclor-1260 Peak # 4	B	0.2131	0.00	0.37	198%			
Aroclor-1260 Peak # 5	B	-15.60	ND	ND	-4%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	35.22	0.5000	0.3522	70	19-121	u
Decachlorobiphenyl (PCB)	B	33.66	0.5000	0.3366	67	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_122722004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6120897	5542573	-9.45
1-bromo-2-nitrobenzene (PCB)	A	1313242	1130236	-13.94

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

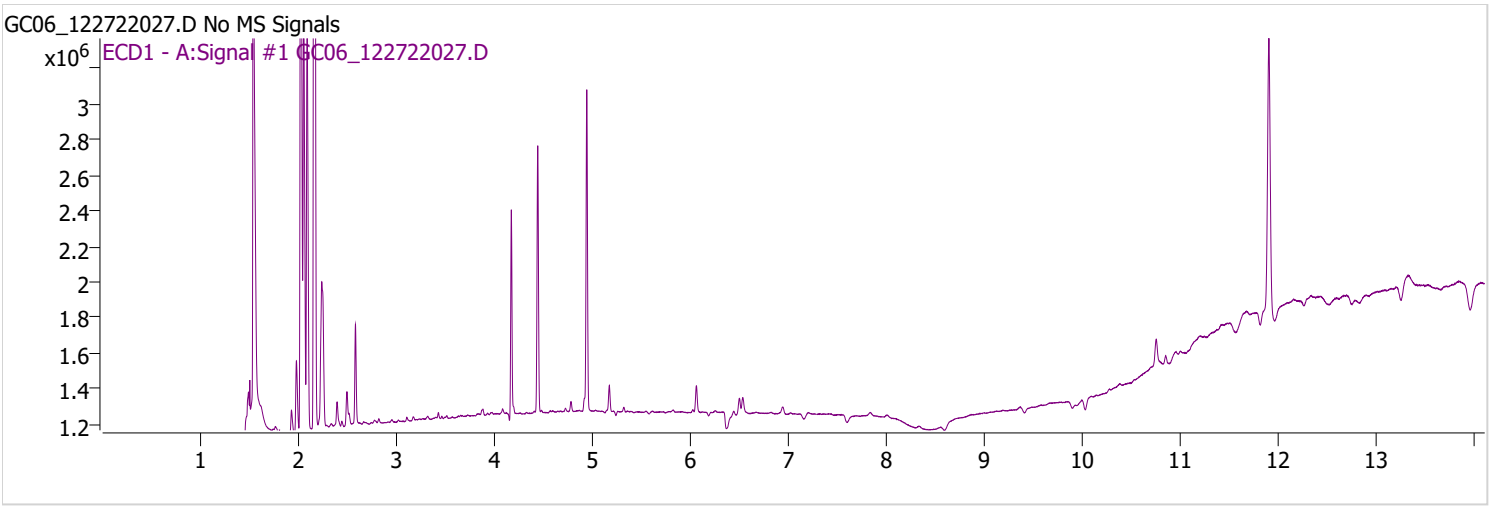
ISTD (CCV gc06_122722004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.42	4.42	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

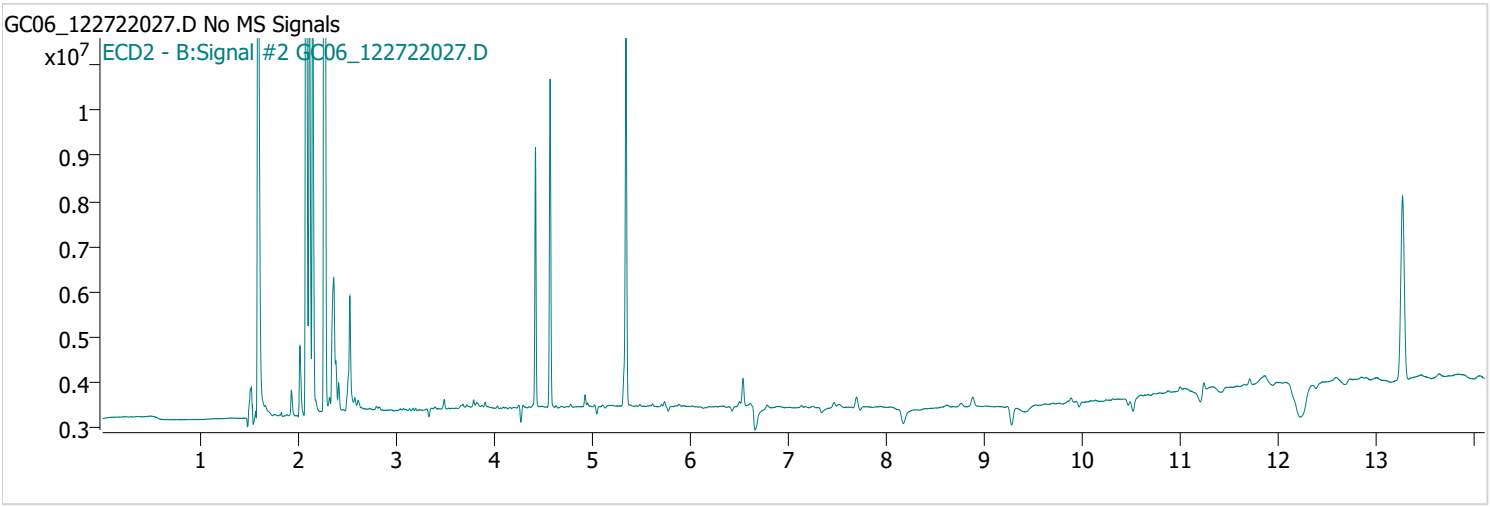
Analyst: MES 12/28/22 *

Reviewer: LW 12/30/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_122722027.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/27/2022 5:16:15 PM
Sample Name	475743-007, 303863, 1	Instrument	SVOA-GC06
Vial	16	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_14a.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	122722PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



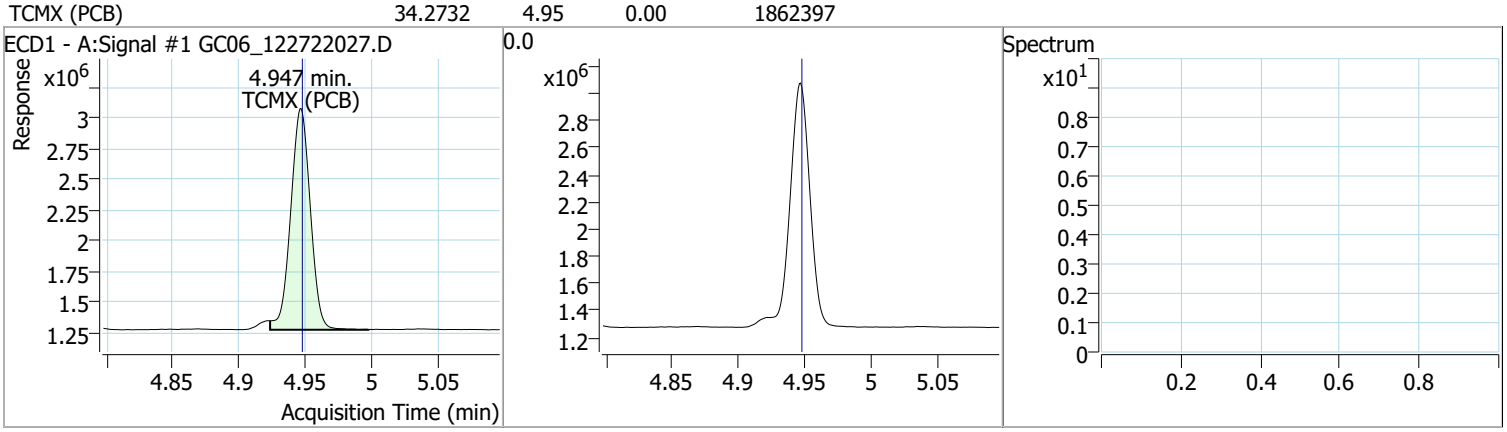


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.176	0.0	1130236.239	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.423	0.0	5542572.898	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.947	0.0	1862397.169	34.2732	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 171.37%		*	
S TCMX (PCB) #2	5.347	0.0	9375512.871	35.2225	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 176.11%		*	
S Decachlorobiphenyl (PCB)	11.914	0.0	3011863.699	39.6451	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 198.23%		*	
S Decachlorobiphenyl (PCB) #2	13.279	0.0	10085917.101	33.6630	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 168.32%		*	
Target Compounds							QValue

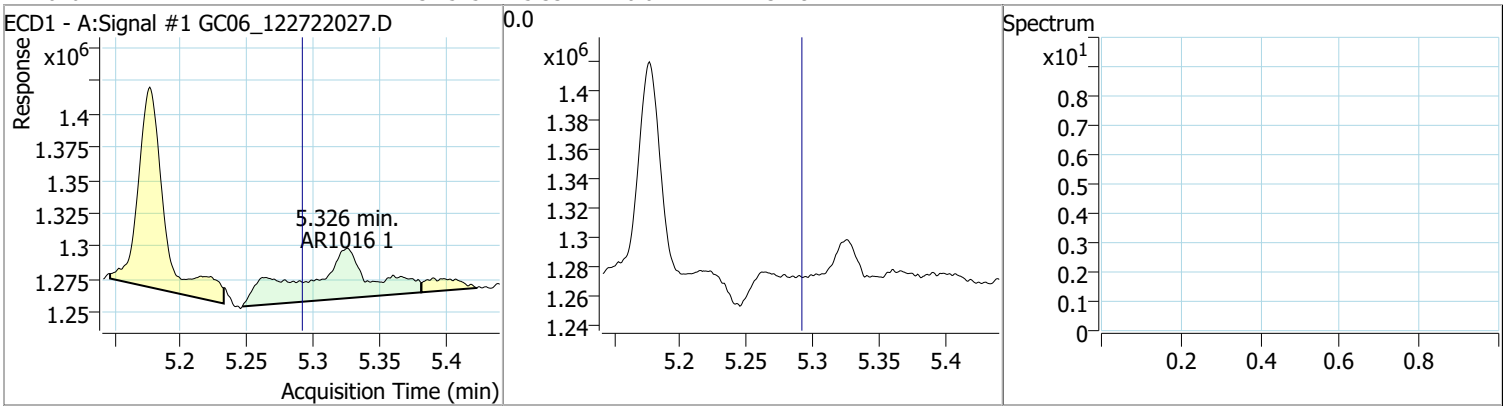
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.326	0.0	134792.312	113.7515	ng/ml	100
T AR1016 2	5.614	0.0	31103.645	0.0000	ng/ml	100
T AR1016 1 #2	5.887	0.0	661807.998	114.8869	ng/ml	100
T AR1016 3	6.066	0.0	244592.245	81.4118	ng/ml	100
T AR1016 4	6.259	0.0	352027.602	154.0590	ng/ml	100
T AR1016 2 #2	6.340	0.0	331422.959	39.8557	ng/ml	100
T AR1016 5	6.675	0.0	24614.595	13.3740	ng/ml	100
T AR1016 3 #2	6.788	0.0	3410583.265	225.7252	ng/ml	100
T AR1016 4 #2	7.011	0.0	15937.915	1.4775	ng/ml	100
T AR1016 5 #2	7.703	0.0	530526.351	60.5073	ng/ml	100
T AR1260 1	8.563	0.0	56594.726	14.8101	ng/ml	100
T AR1260 2	9.068	0.0	1633.724	0.2805	ng/ml	100
T AR1260 3	9.370	0.0	71973.775	11.8226	ng/ml	100
T AR1260 1 #2	9.895	0.0	860614.945	52.1755	ng/ml	100
T AR1260 4	10.005	0.0	168857.490	37.0746	ng/ml	100
T AR1260 2 #2	10.144	0.0	68852.518	3.4741	ng/ml	100
T AR1260 5	10.496	0.0	12230.275	0.0000	ng/ml	100
T AR1260 3 #2	10.495	0.0	171726.104	6.8455	ng/ml	100
T AR1260 4 #2	11.006	0.0	328605.231	0.2130	ng/ml	100
T AR1260 5 #2	11.660	0.0	63971.660	0.0000	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

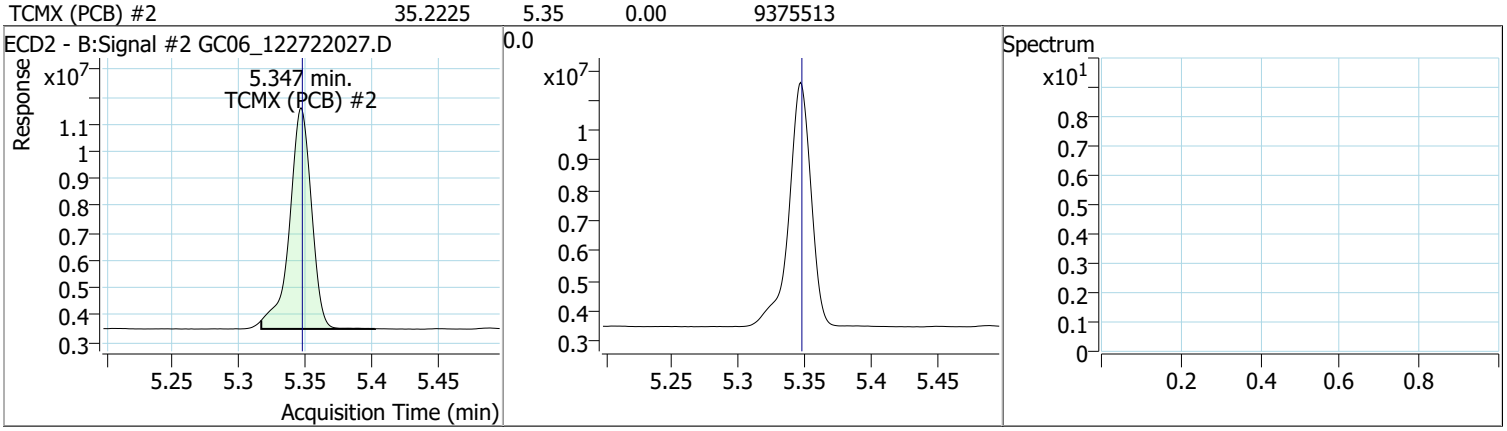
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	34.2732	4.95	0.00	1862397				



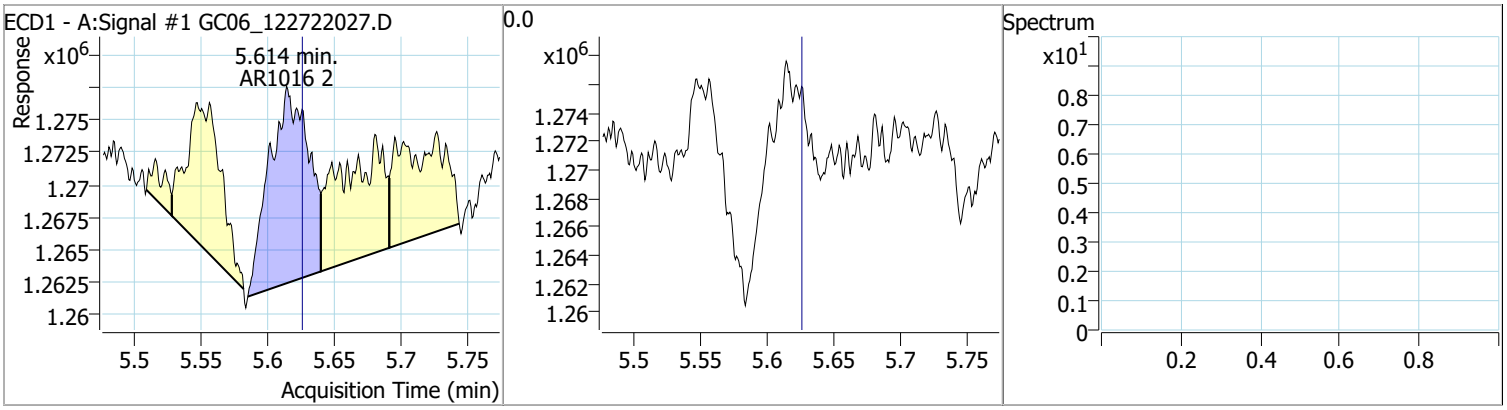
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	113.7515	5.33	0.04	134792				



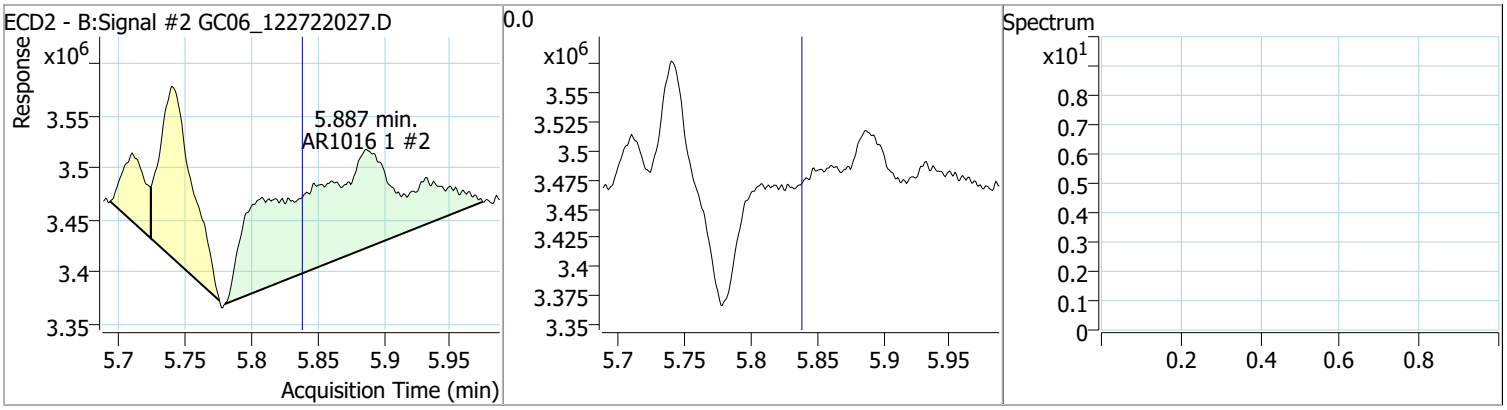
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	35.2225	5.35	0.00	9375513				



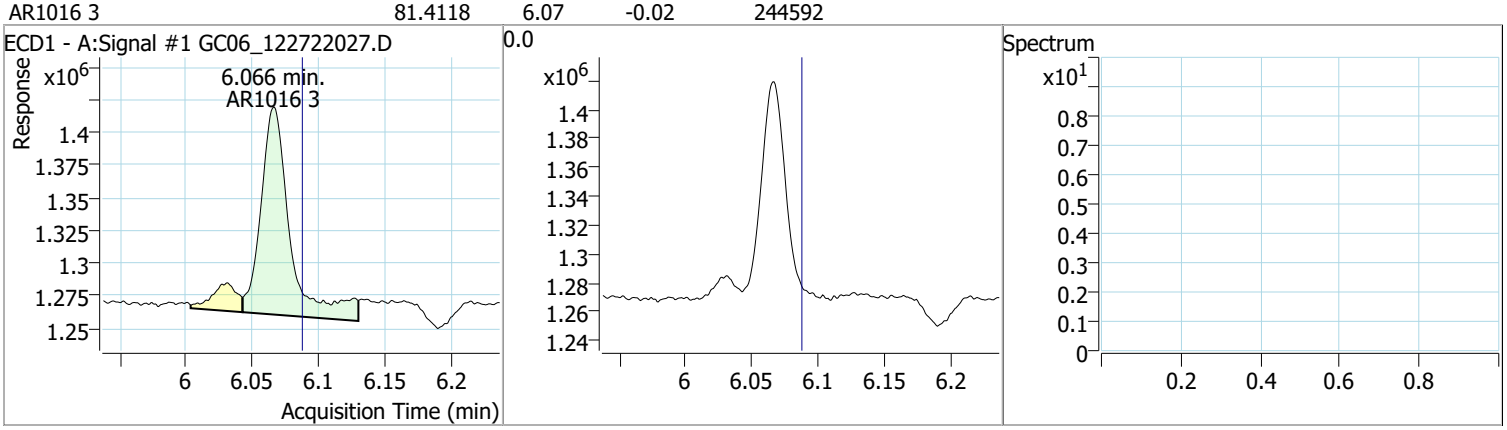
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.61	-0.01	31104				



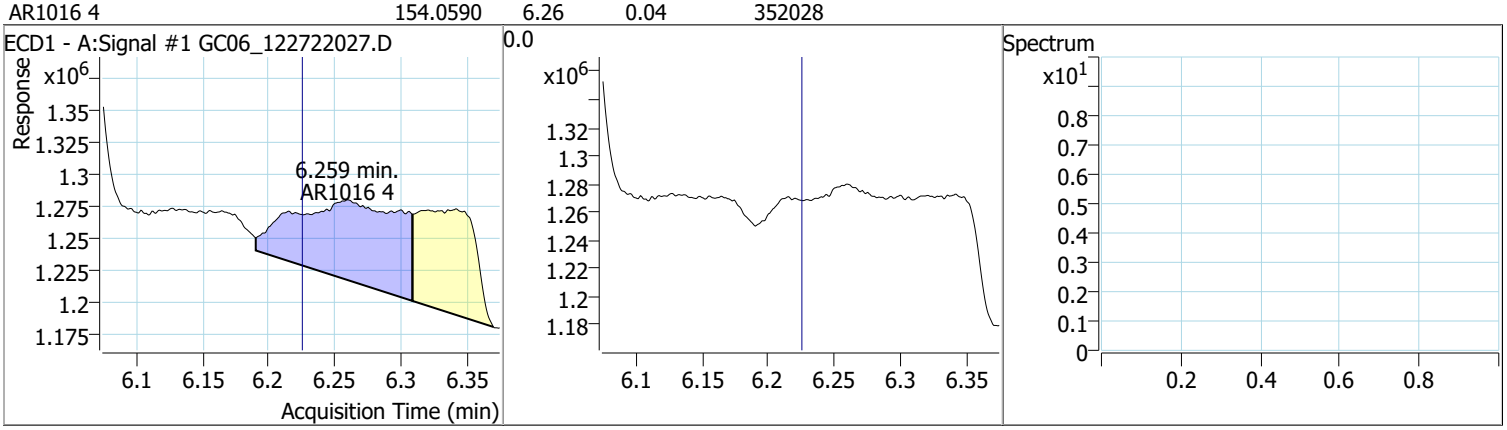
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	114.8869	5.89	0.05	661808				



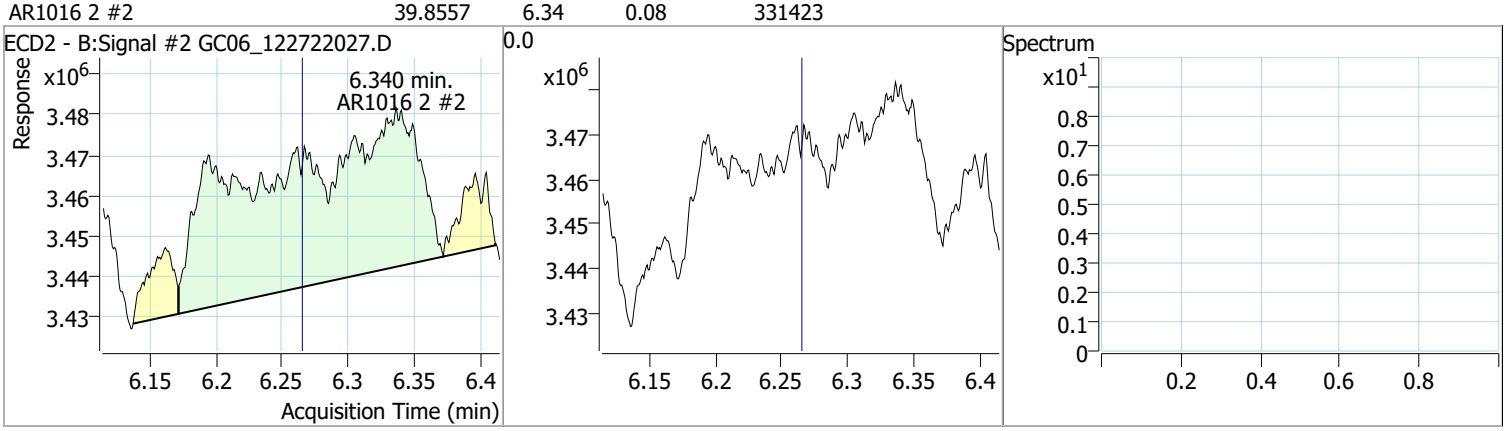
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	81.4118	6.07	-0.02	244592				



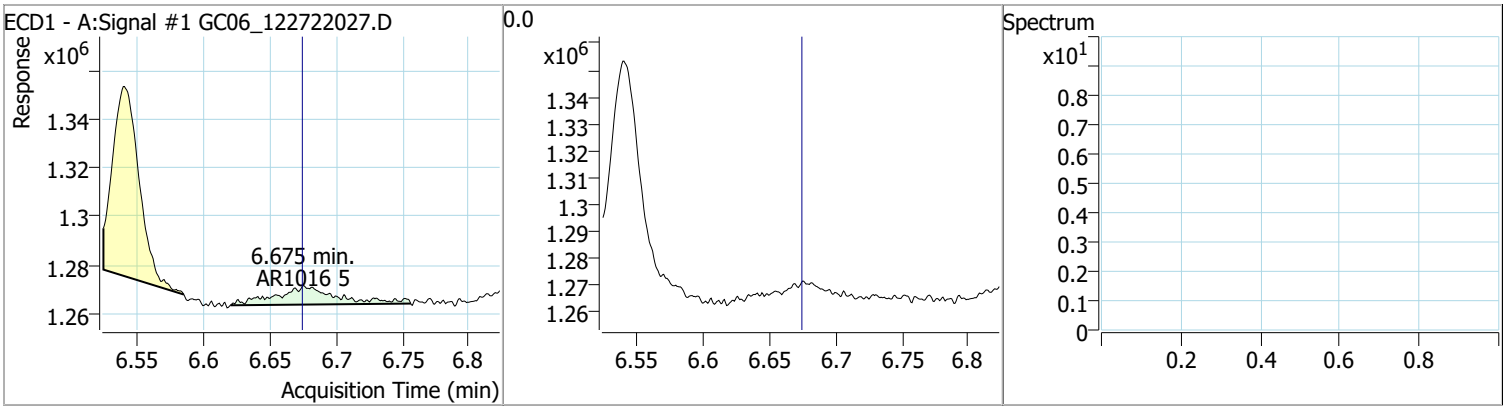
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	154.0590	6.26	0.04	352028				



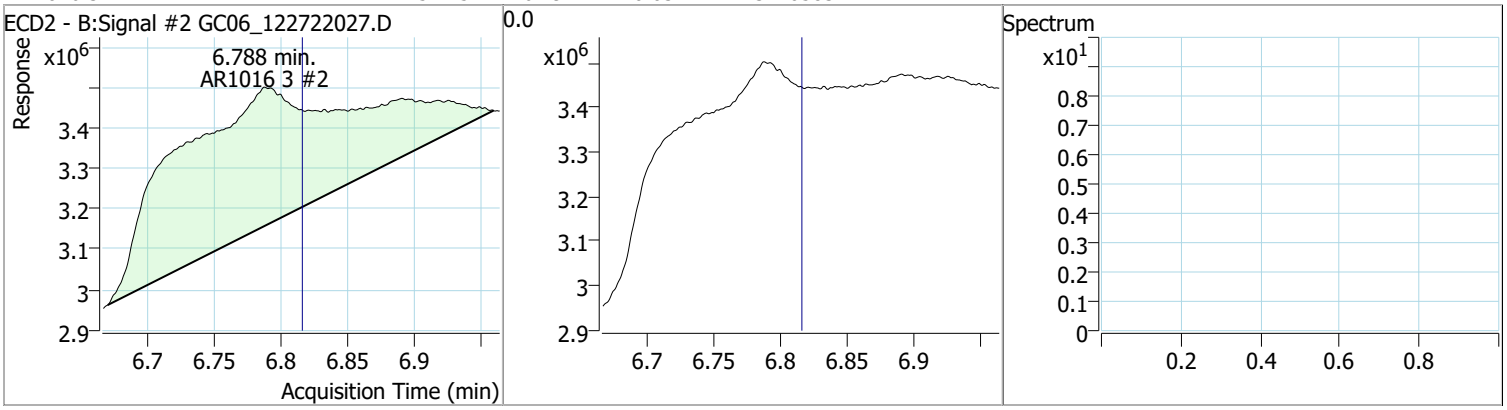
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	39.8557	6.34	0.08	331423				



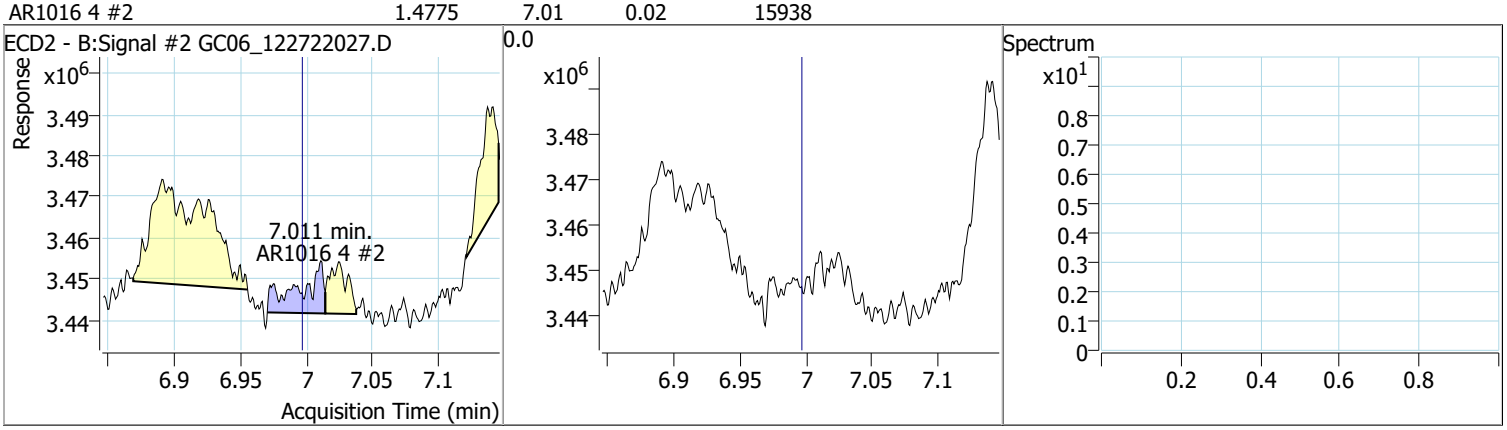
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	13.3740	6.68	0.00	24615				



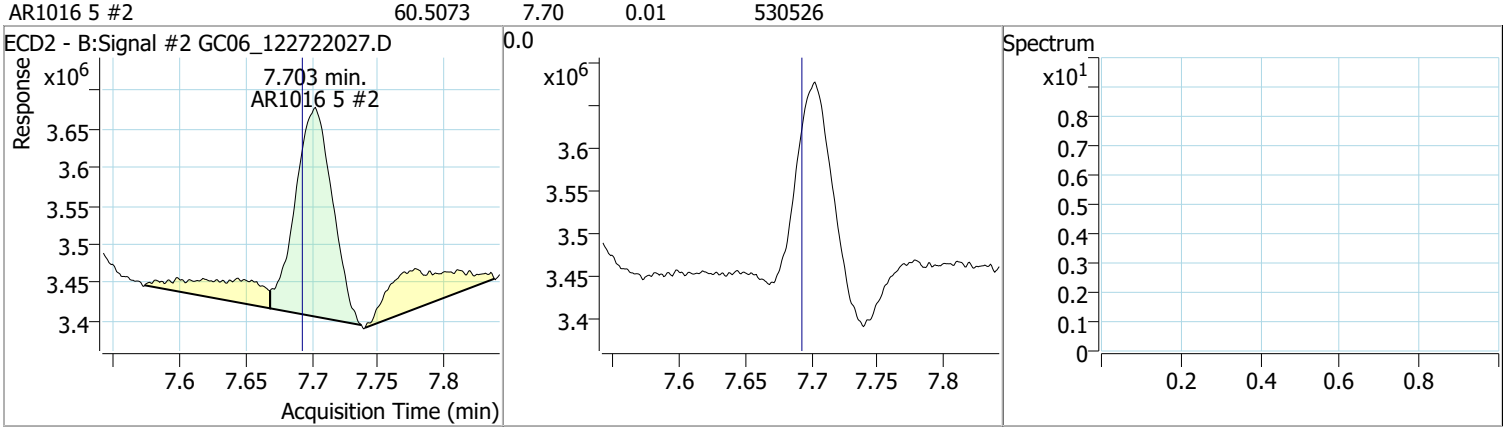
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	225.7252	6.79	-0.03	3410583				



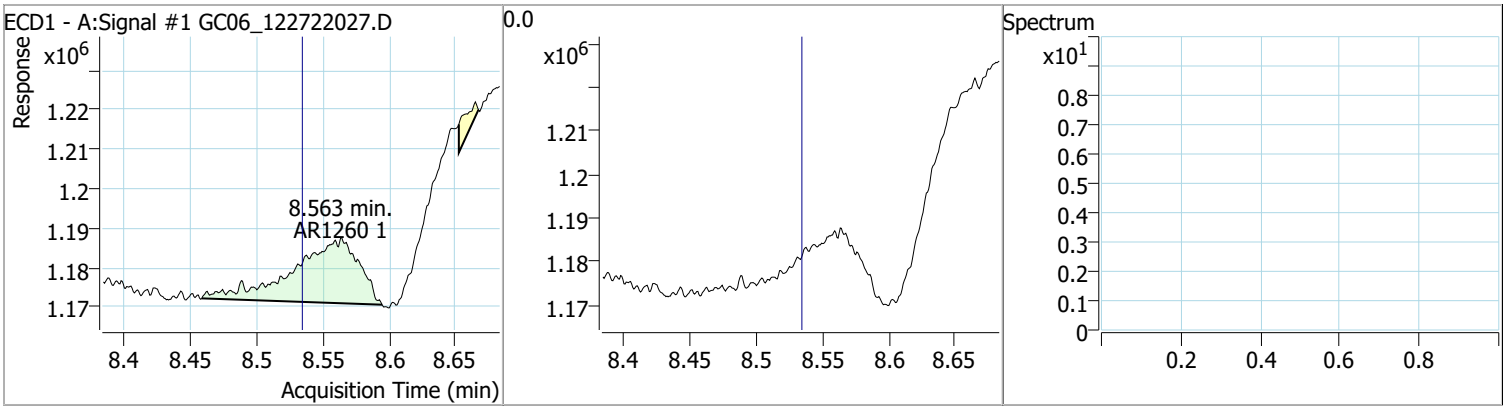
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	1.4775	7.01	0.02	15938				



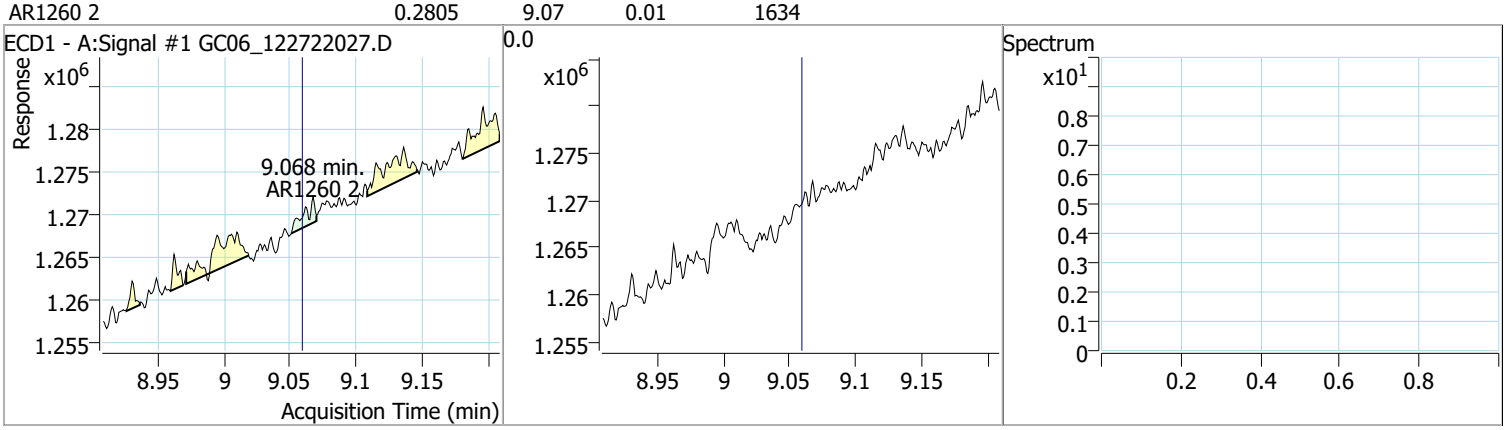
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	60.5073	7.70	0.01	530526				



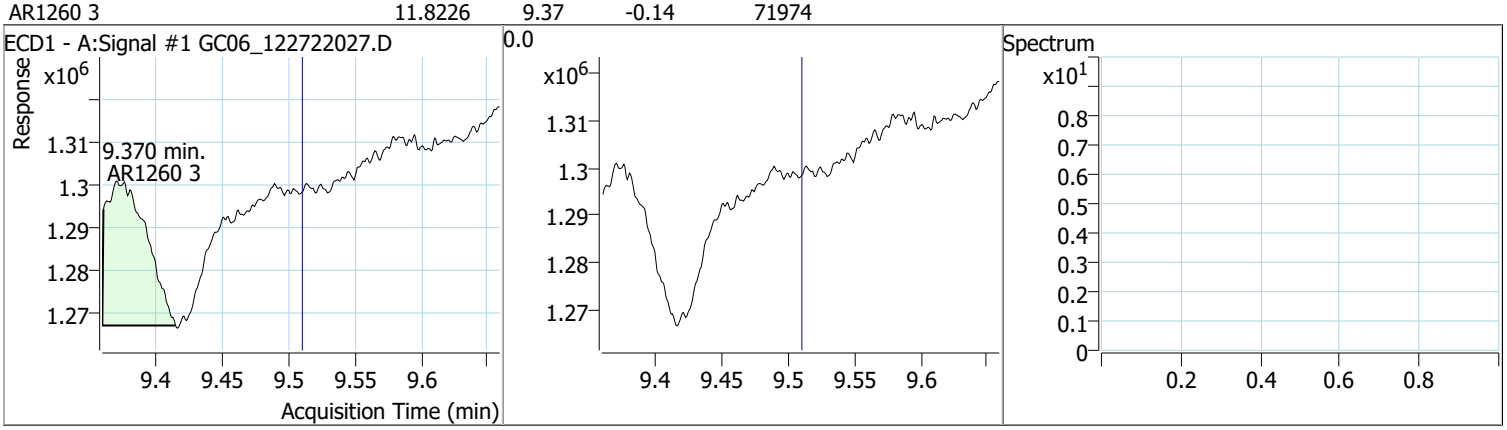
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	14.8101	8.56	0.03	56595				



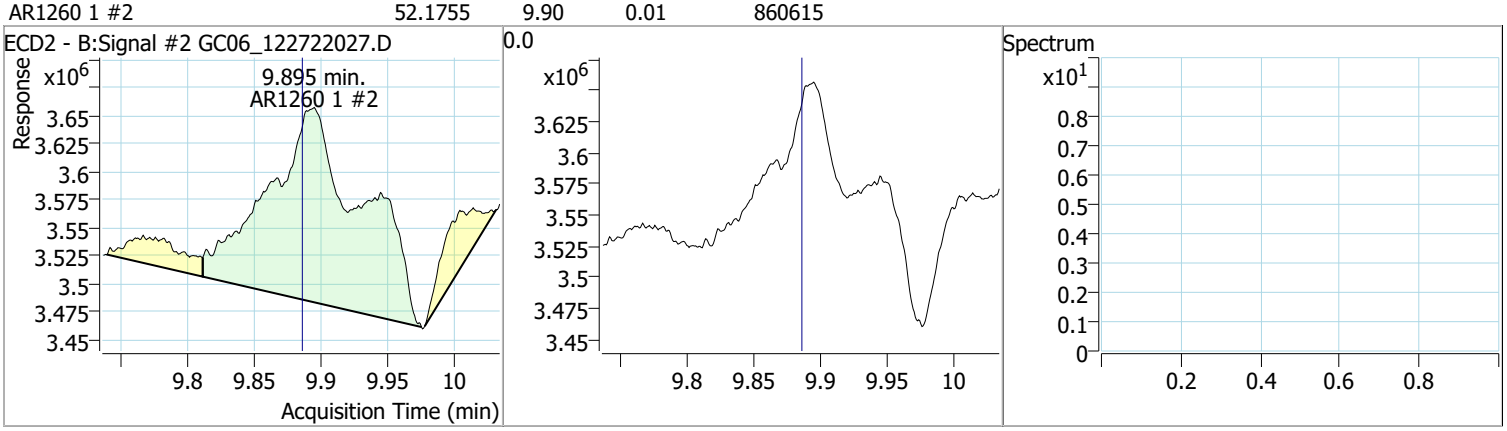
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.2805	9.07	0.01	1634				



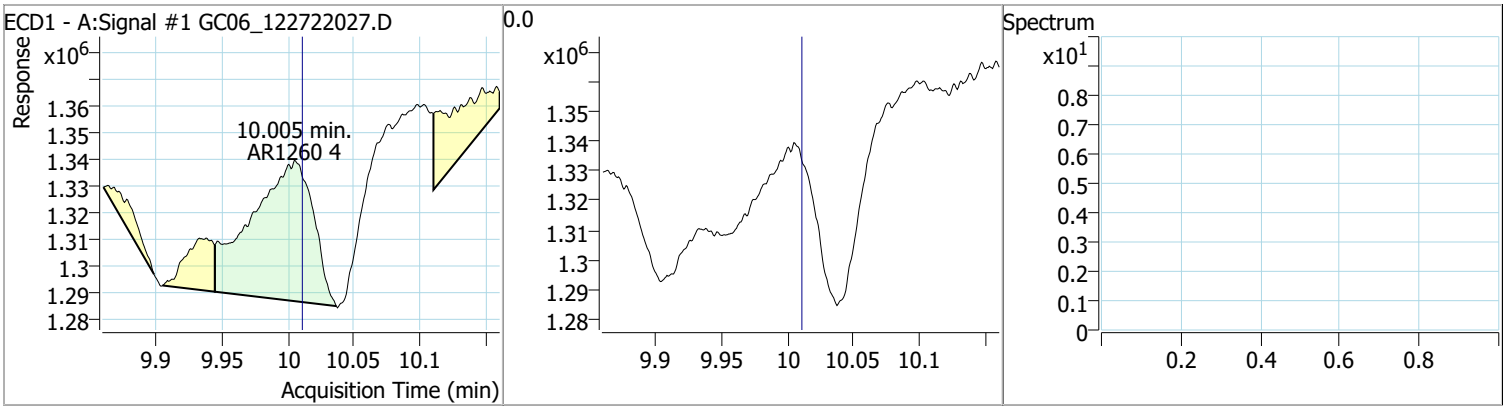
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	11.8226	9.37	-0.14	71974				



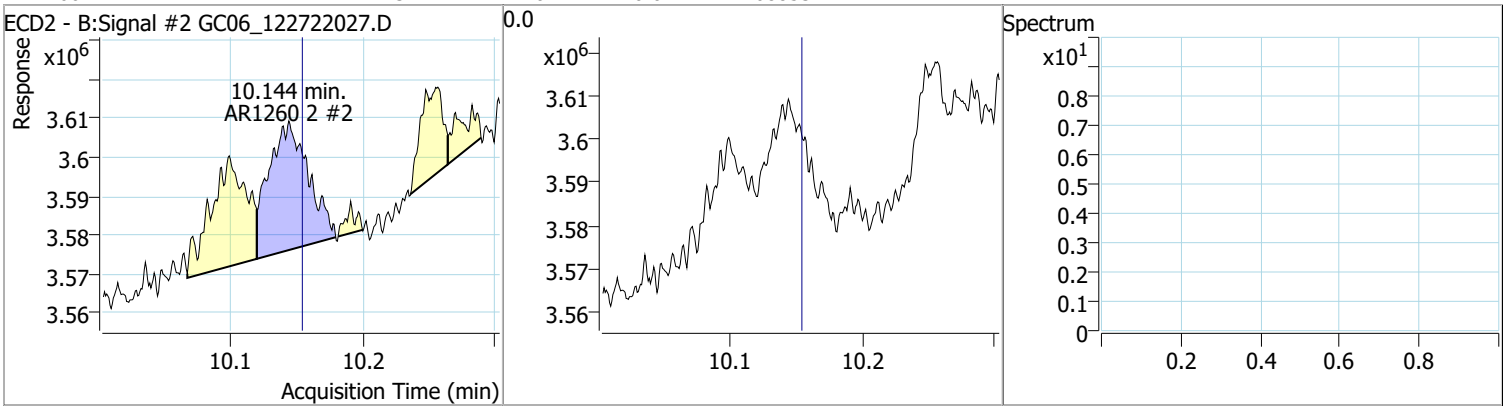
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	52.1755	9.90	0.01	860615				



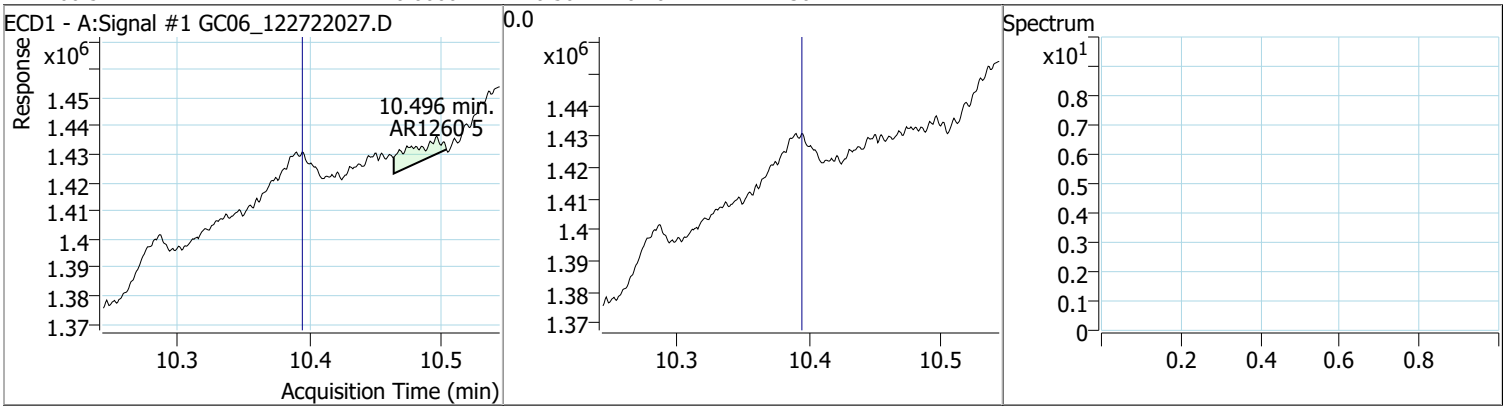
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	37.0746	10.01	0.00	168857				



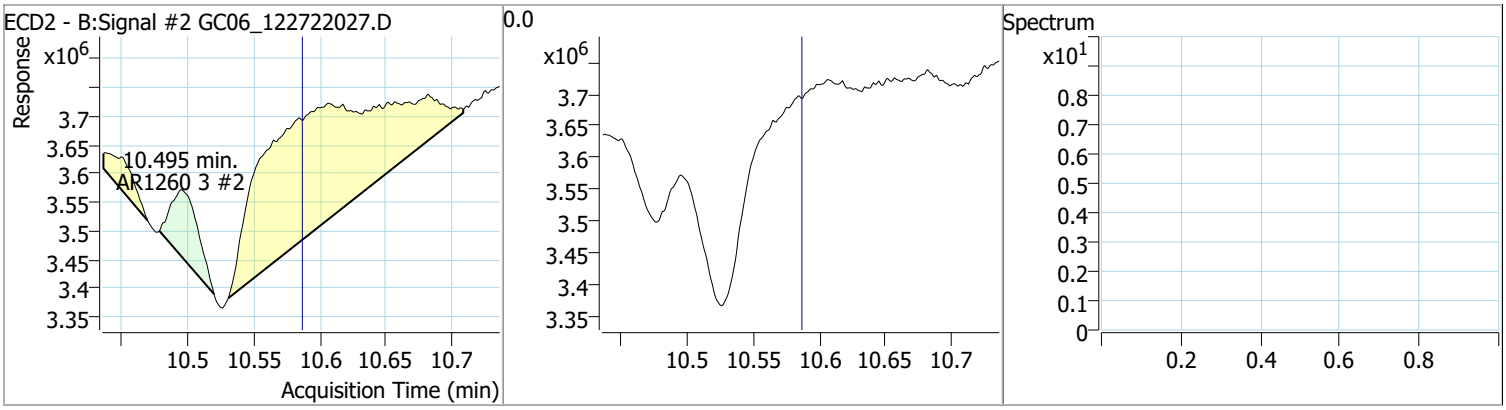
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	3.4741	10.14	-0.01	68853				



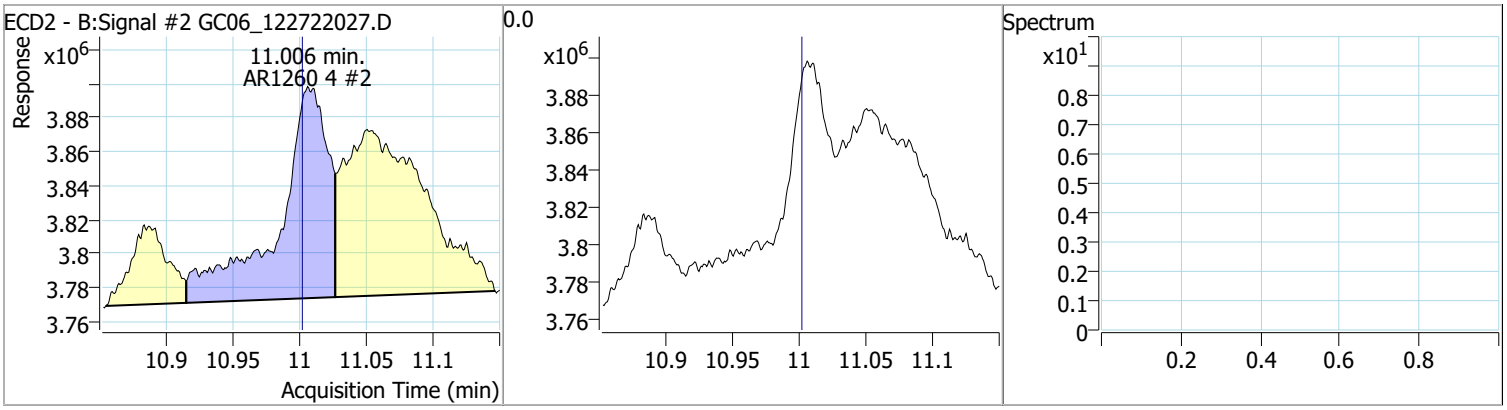
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	0.0000	10.50	0.10	12230				



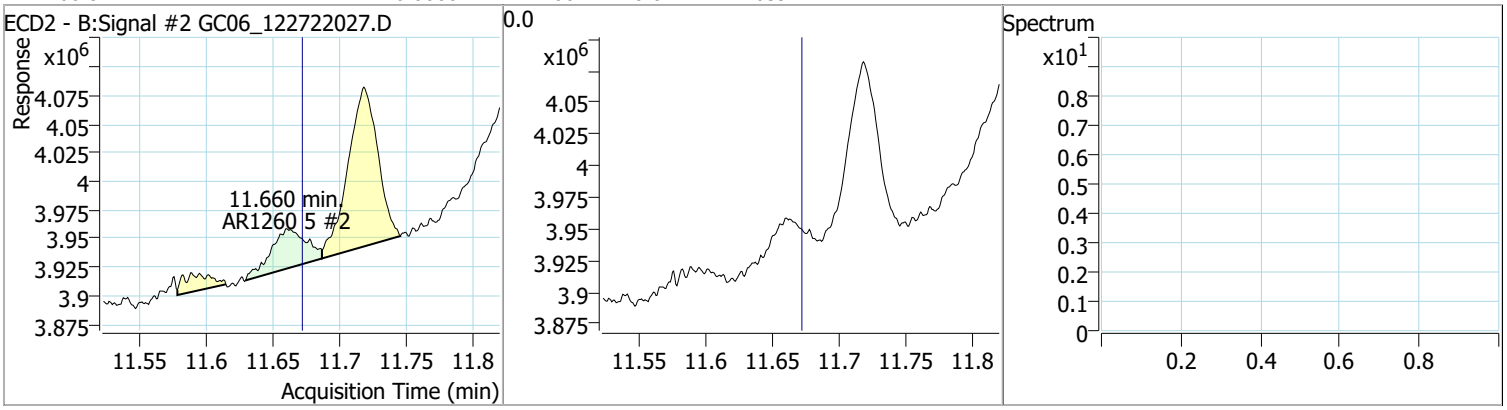
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	6.8455	10.50	-0.09	171726				



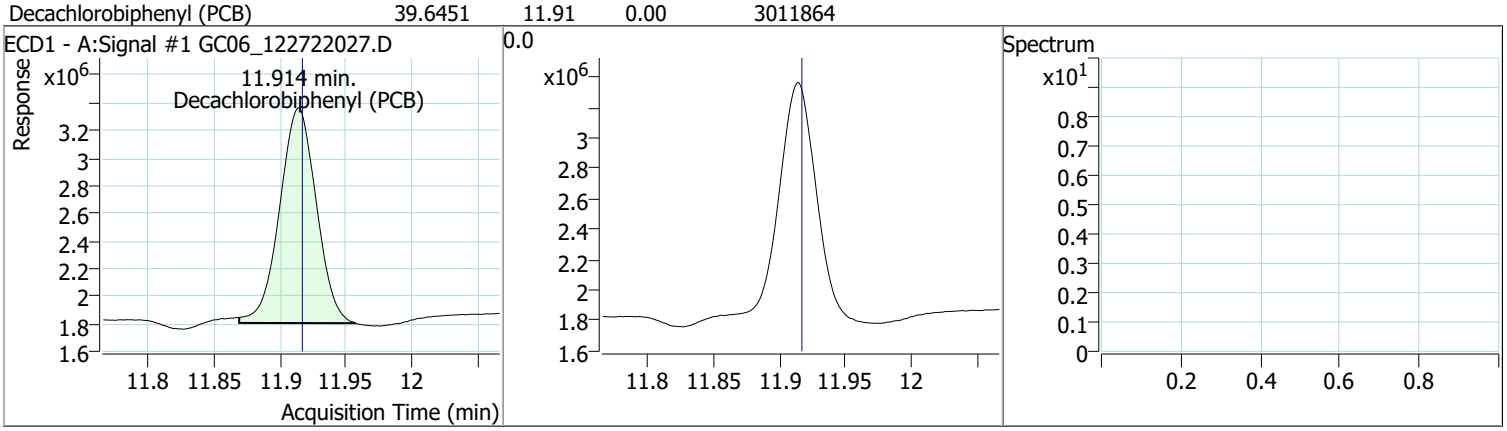
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	0.2130	11.01	0.01	328605				



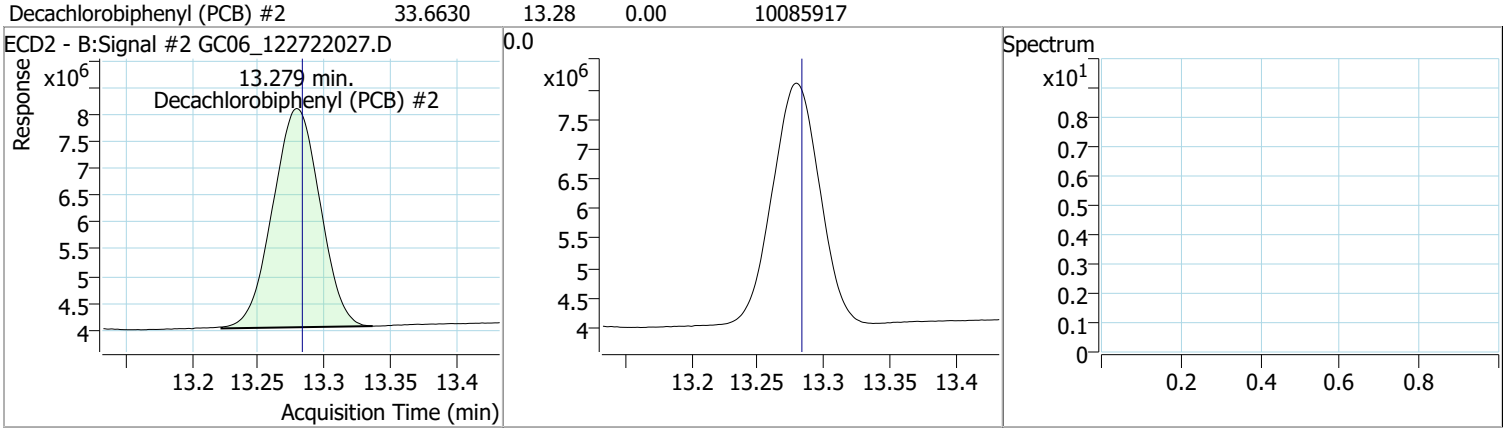
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	0.0000	11.66	-0.01	63972				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	39.6451	11.91	0.00	3011864				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	33.6630	13.28	0.00	10085917				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	475743-010	Client ID:	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-LA
Seqnum:	452520427028.1	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_122722028	Batch:	303863	Time:	27-DEC-2022 17:34
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	61.89	~~0.62~~ ~~FP~~	0.74	18%	0.50		x u
Aroclor-1016 Peak # 1	B	56.55	0.57	0.15	116%			
Aroclor-1016 Peak # 2	B	19.96	0.20	ND	336%			
Aroclor-1016 Peak # 3	B	224.7	2.25	0.70	105%			
Aroclor-1016 Peak # 4	B	1.845	0.02	2.77	197%			
Aroclor-1016 Peak # 5	B	6.388	0.06	0.13	70%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	10.94	ND	0.24	75%	0.50		u
Aroclor-1260 Peak # 1	B	60.51	0.61	0.51	17%			
Aroclor-1260 Peak # 2	B	3.207	0.03	0.01	118%			
Aroclor-1260 Peak # 3	B	10.46	0.10	0.00	195%			
Aroclor-1260 Peak # 4	B	-3.630	ND	0.81	219%			
Aroclor-1260 Peak # 5	B	-15.86	ND	ND	-27%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	28.72	0.5000	0.2872	57	19-121	u
Decachlorobiphenyl (PCB)	B	28.08	0.5000	0.2808	56	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_122722004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6120897	5313763	-13.19
1-bromo-2-nitrobenzene (PCB)	A	1313242	1139944	-13.20

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

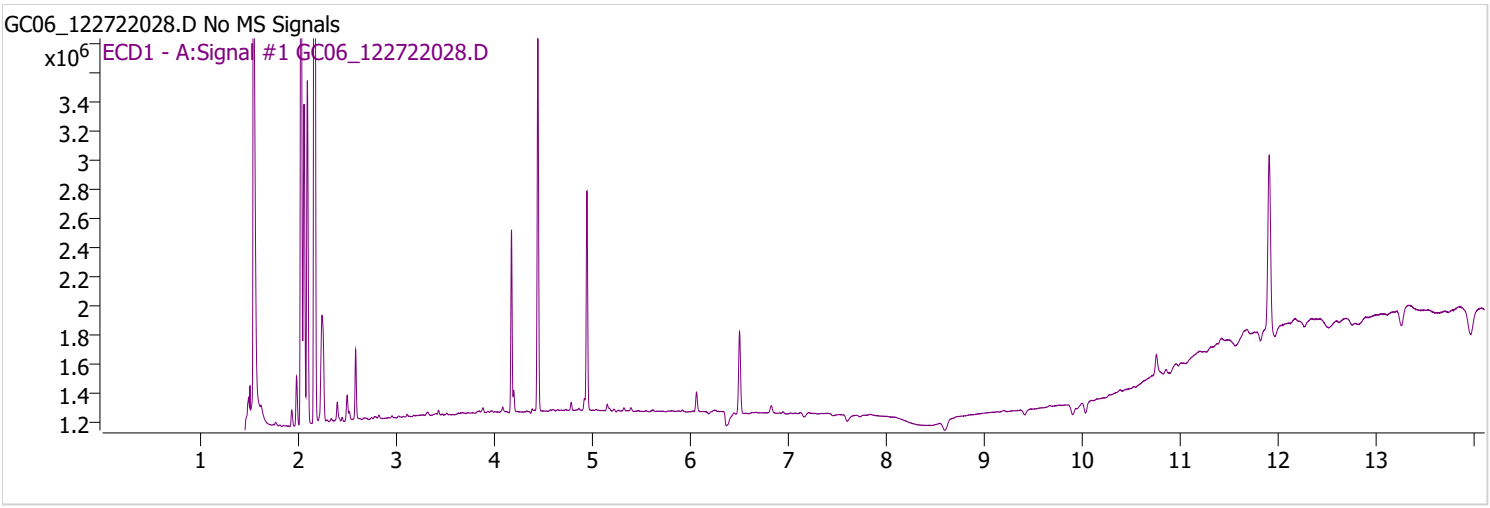
ISTD (CCV gc06_122722004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.42	4.42	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

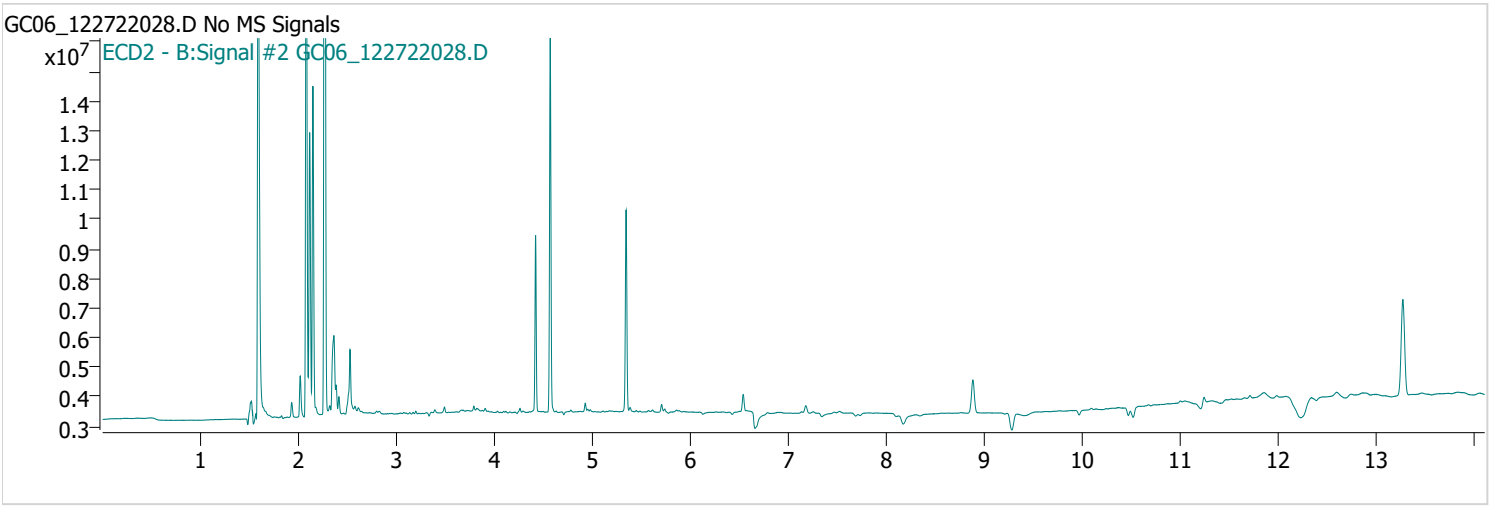
Analyst: MES 12/28/22 *

Reviewer: LW 12/30/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_122722028.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/27/2022 5:34:35 PM
Sample Name	475743-010, 303863, 1	Instrument	SVOA-GC06
Vial	17	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_14a.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	122722PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



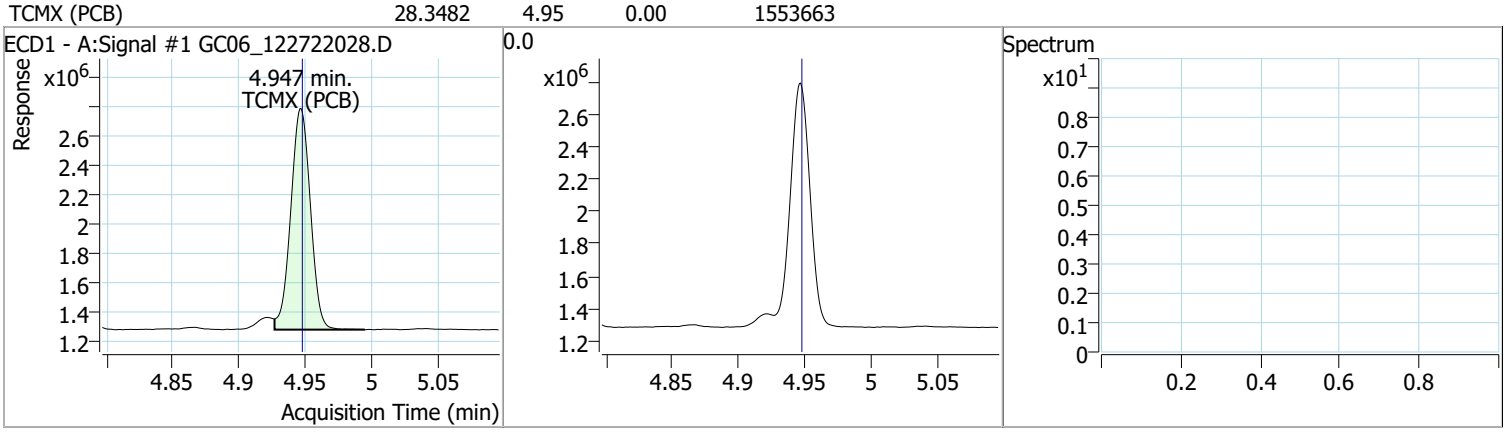


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.176	0.0	1139944.216	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.423	0.0	5313762.841	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.947	0.0	1553662.738	28.3482	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 141.74%			
S TCMX (PCB) #2	5.347	0.0	7328230.789	28.7167	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 143.58%			
S Decachlorobiphenyl (PCB)	11.914	0.0	2397312.076	30.3758	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 151.88%		*	
S Decachlorobiphenyl (PCB) #2	13.279	0.0	8160925.738	28.0813	ng/ml		-0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 140.41%			
Target Compounds							QValue

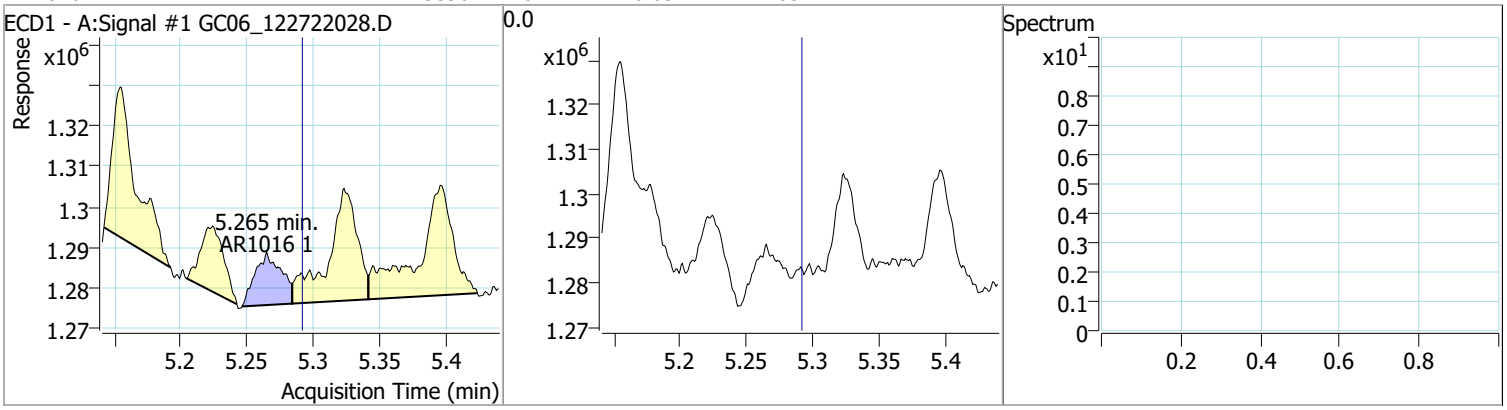
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.265	0.0	17854.342	14.9390	ng/ml	100
T AR1016 2	5.619	0.0	24546.405	0.0000	ng/ml	100
T AR1016 1 #2	5.863	0.0	312331.106	56.5540	ng/ml	100
T AR1016 3	6.066	0.0	210784.555	69.5615	ng/ml	100
T AR1016 4	6.246	0.0	637952.206	276.8115	ng/ml	100
T AR1016 2 #2	6.262	0.0	159129.121	19.9603	ng/ml	100
T AR1016 5	6.674	0.0	24645.165	13.2766	ng/ml	100
T AR1016 3 #2	6.894	0.0	3254825.072	224.6923	ng/ml	100
T AR1016 4 #2	7.023	0.0	19082.415	1.8452	ng/ml	100
T AR1016 5 #2	7.716	0.0	53702.017	6.3885	ng/ml	100
T AR1260 1	8.548	0.0	196454.342	50.9718	ng/ml	100
T AR1260 2	9.130	0.0	4890.034	0.8324	ng/ml	100
T AR1260 3	9.636	0.0	865.453	0.1410	ng/ml	100
T AR1260 1 #2	9.903	0.0	956869.524	60.5089	ng/ml	100
T AR1260 4	10.005	0.0	311323.235	80.5572	ng/ml	100
T AR1260 2 #2	10.148	0.0	60939.870	3.2073	ng/ml	100
T AR1260 5	10.391	0.0	41122.514	0.0000	ng/ml	100
T AR1260 3 #2	10.495	0.0	251462.650	10.4556	ng/ml	100
T AR1260 4 #2	11.007	0.0	264304.211	0.0000	ng/ml	100
T AR1260 5 #2	11.663	0.0	56122.229	0.0000	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

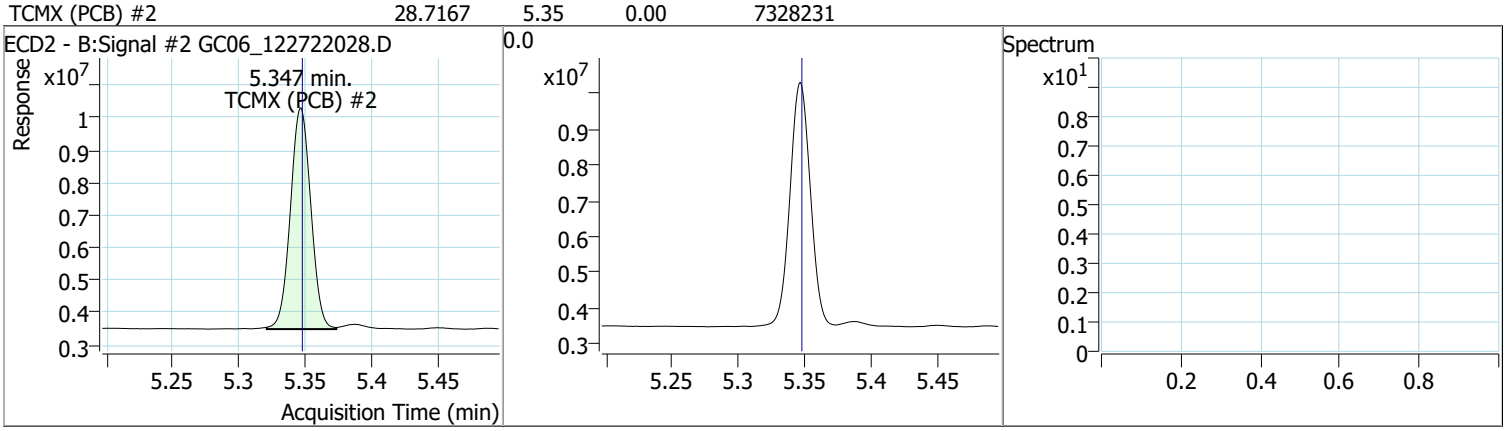
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	28.3482	4.95	0.00	1553663				



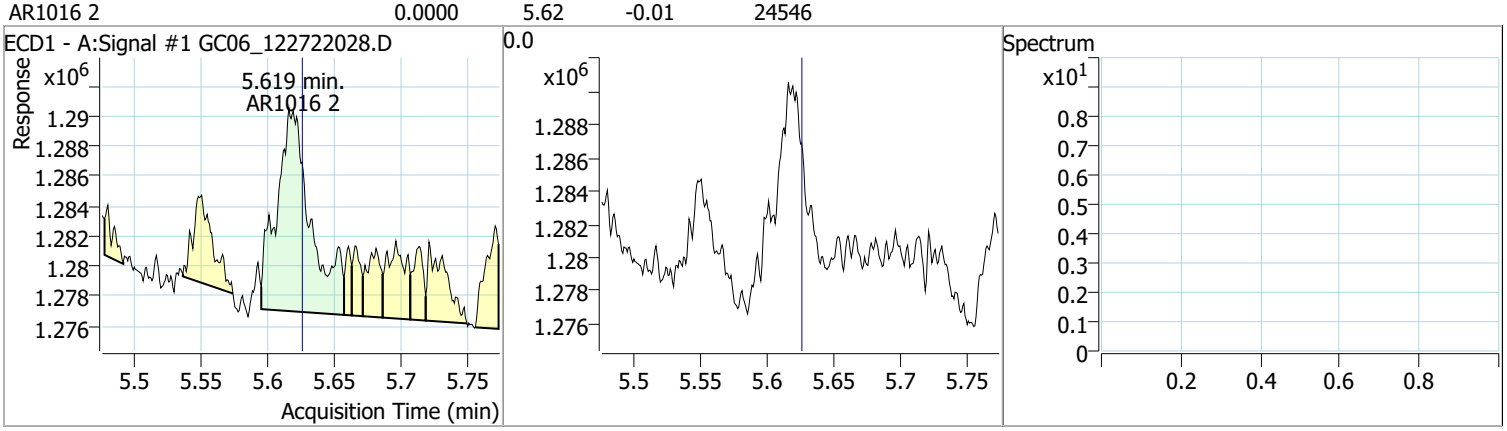
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	14.9390	5.27	-0.03	17854				



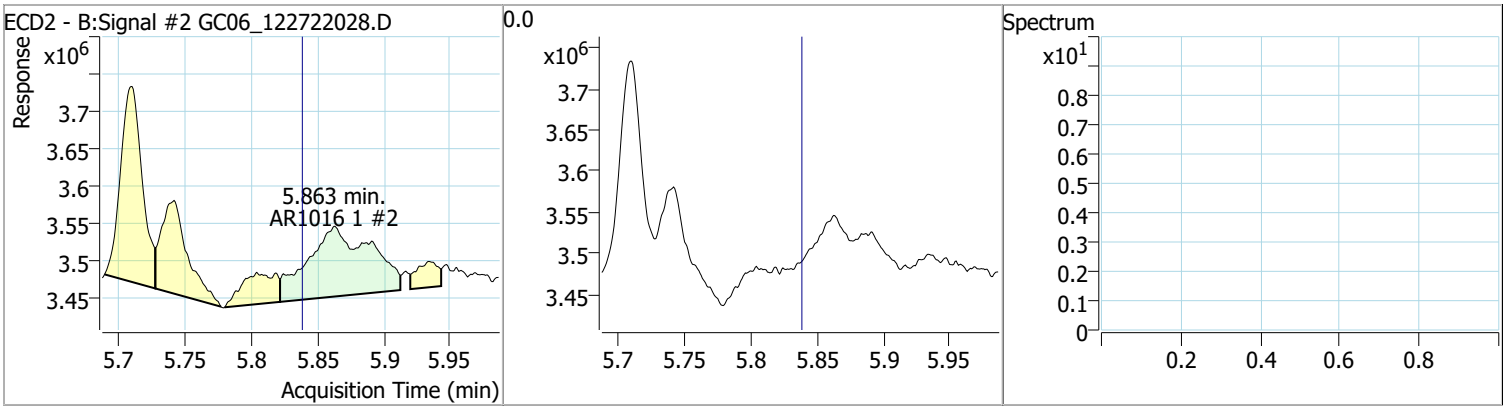
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	28.7167	5.35	0.00	7328231				



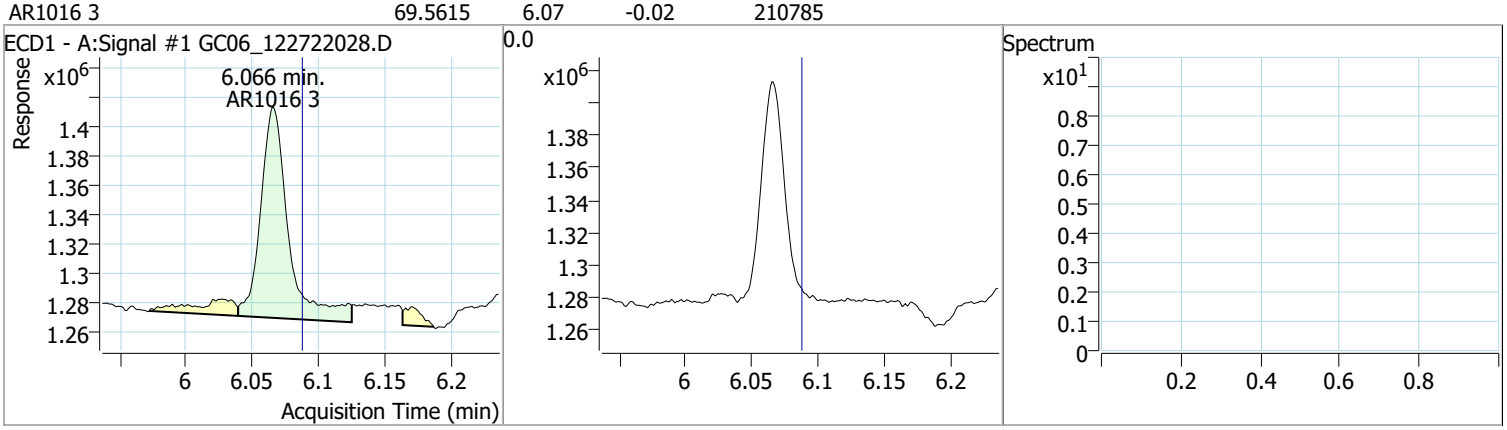
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.62	-0.01	24546				



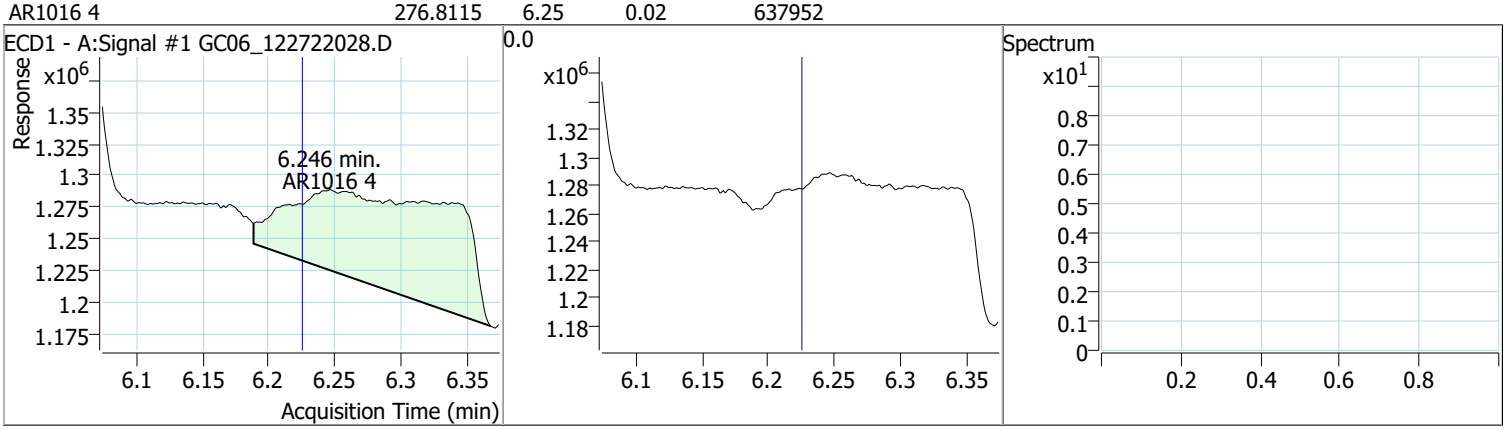
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	56.5540	5.86	0.03	312331				



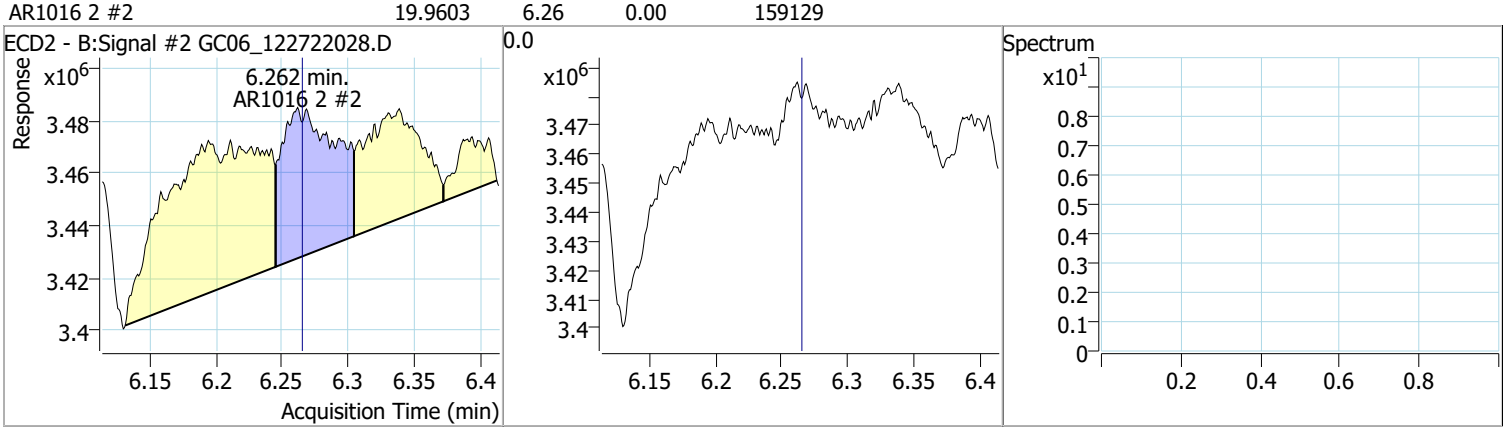
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	69.5615	6.07	-0.02	210785				



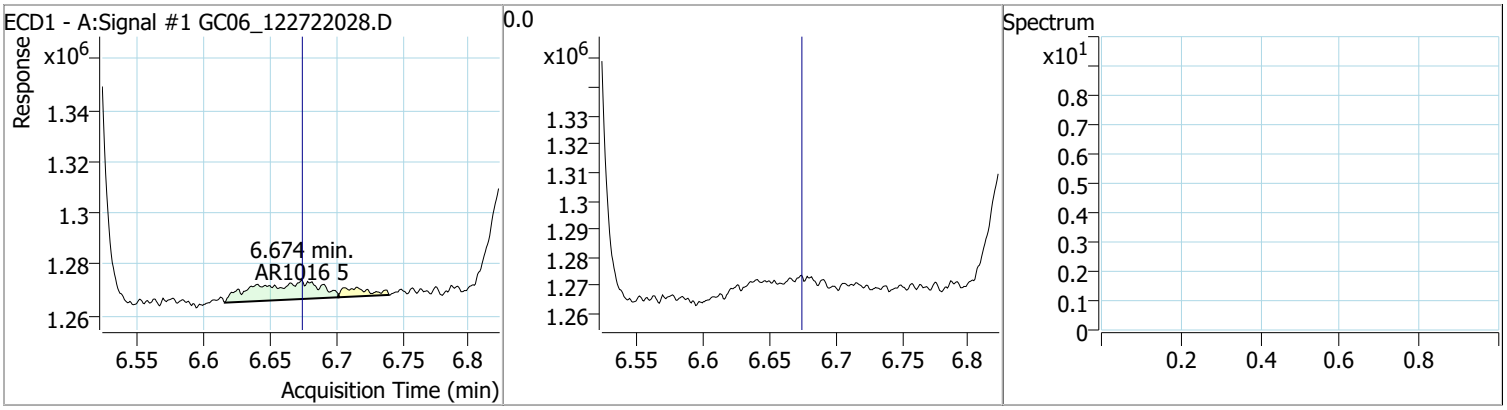
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	276.8115	6.25	0.02	637952				



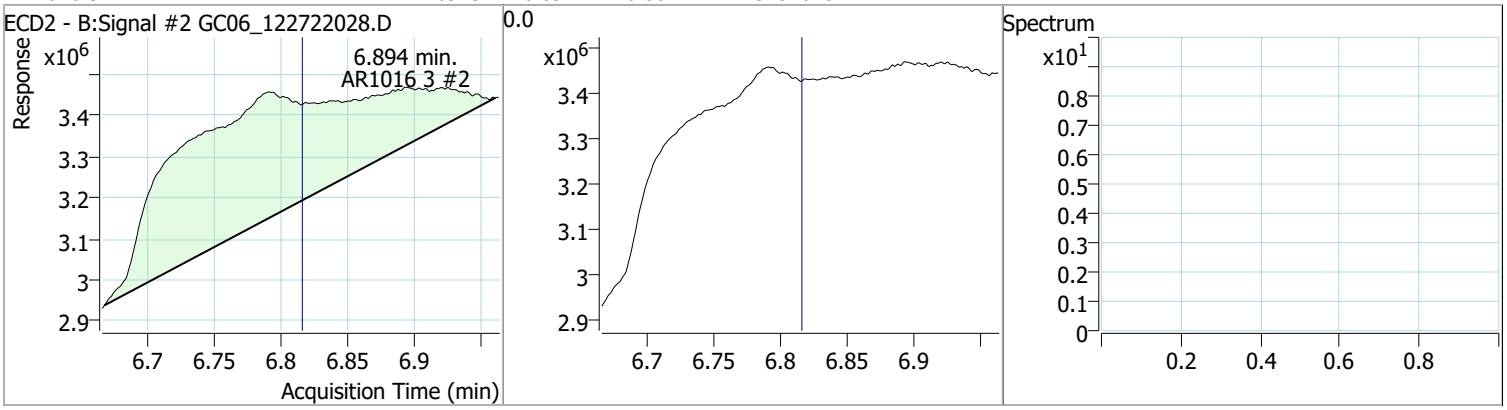
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	19.9603	6.26	0.00	159129				



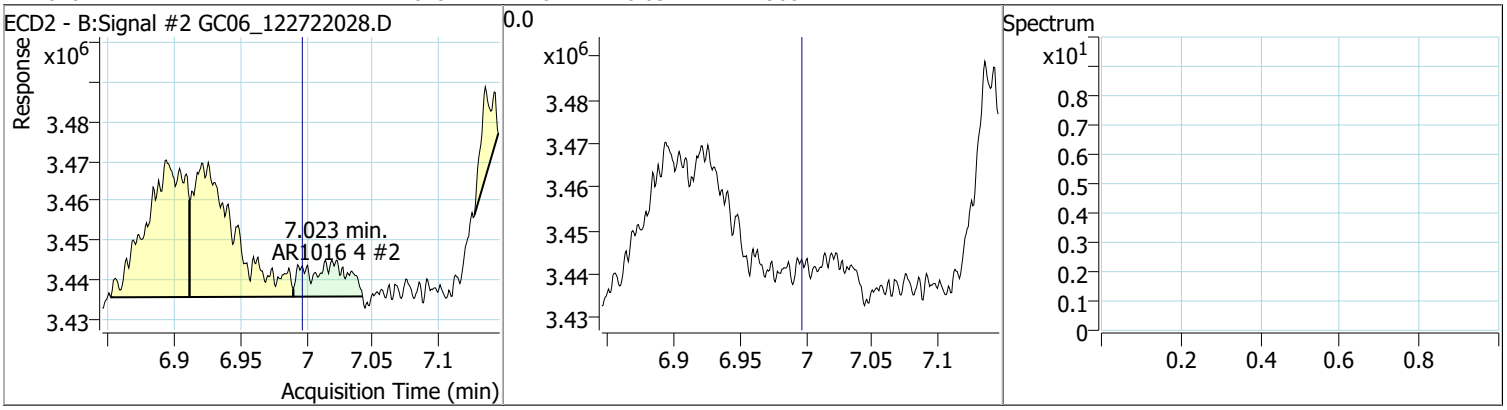
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	13.2766	6.67	0.00	24645				



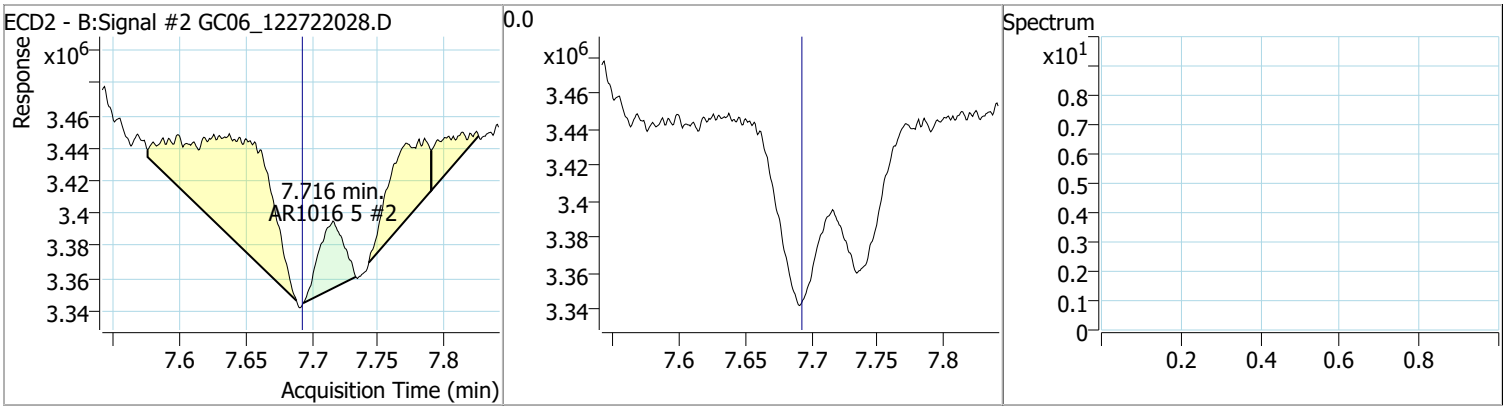
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	224.6923	6.89	0.08	3254825				



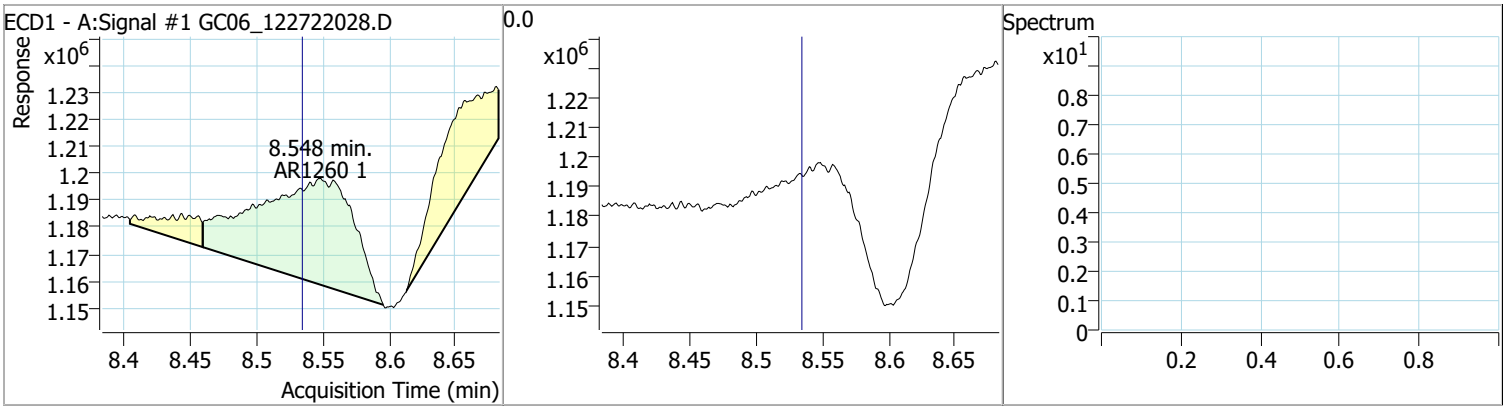
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	1.8452	7.02	0.03	19082				



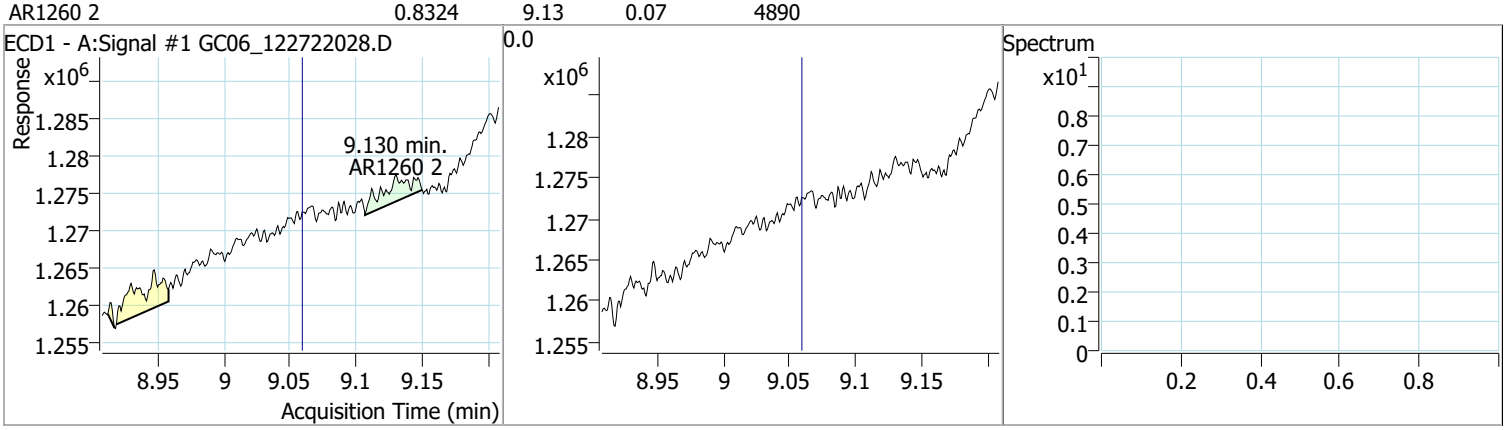
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	6.3885	7.72	0.02	53702				



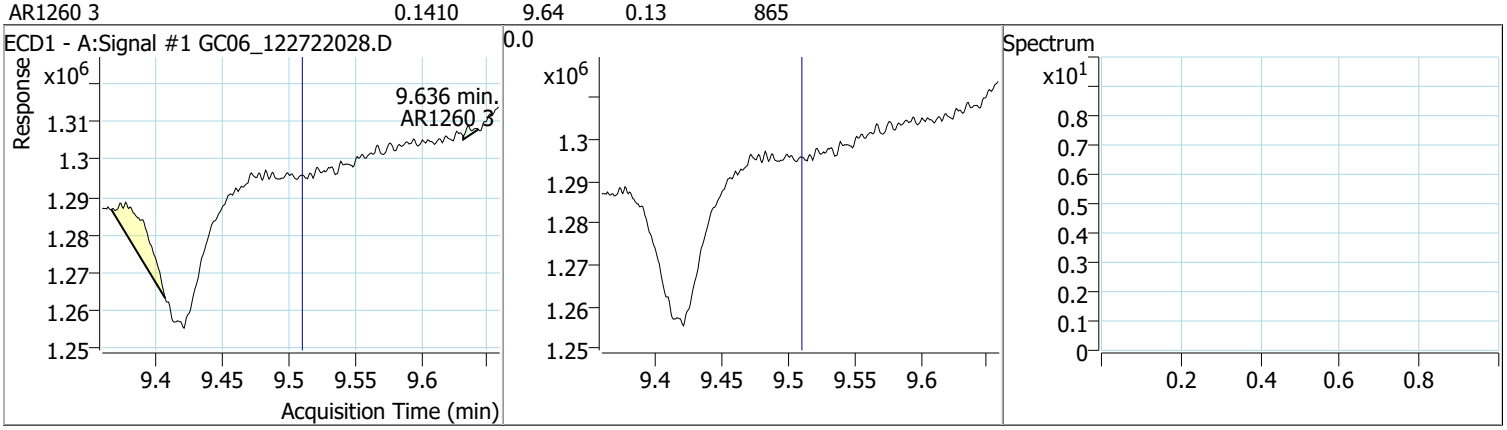
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	50.9718	8.55	0.02	196454				



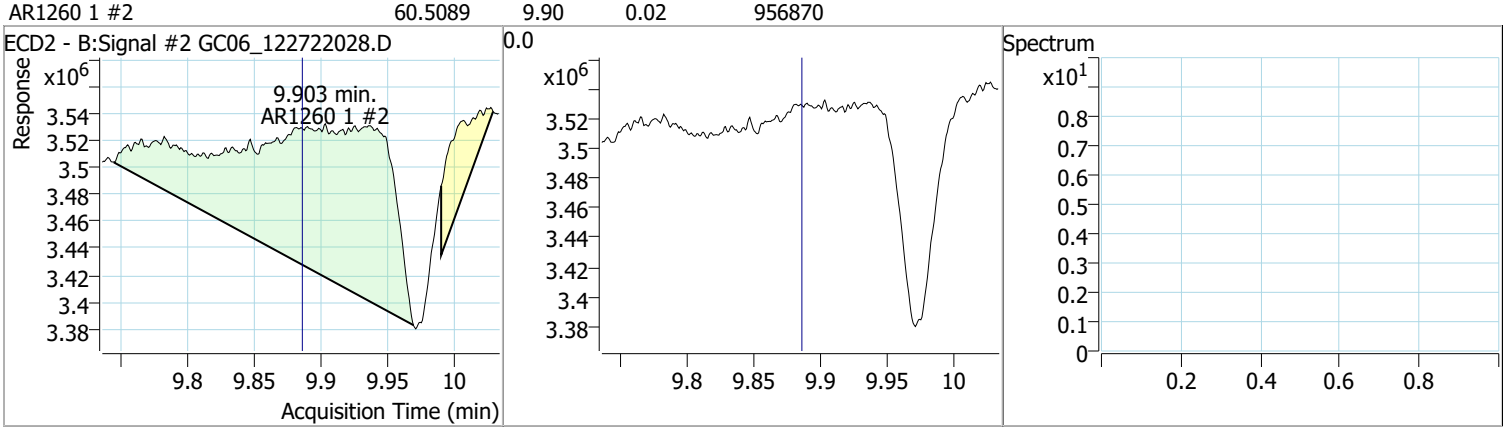
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.8324	9.13	0.07	4890				



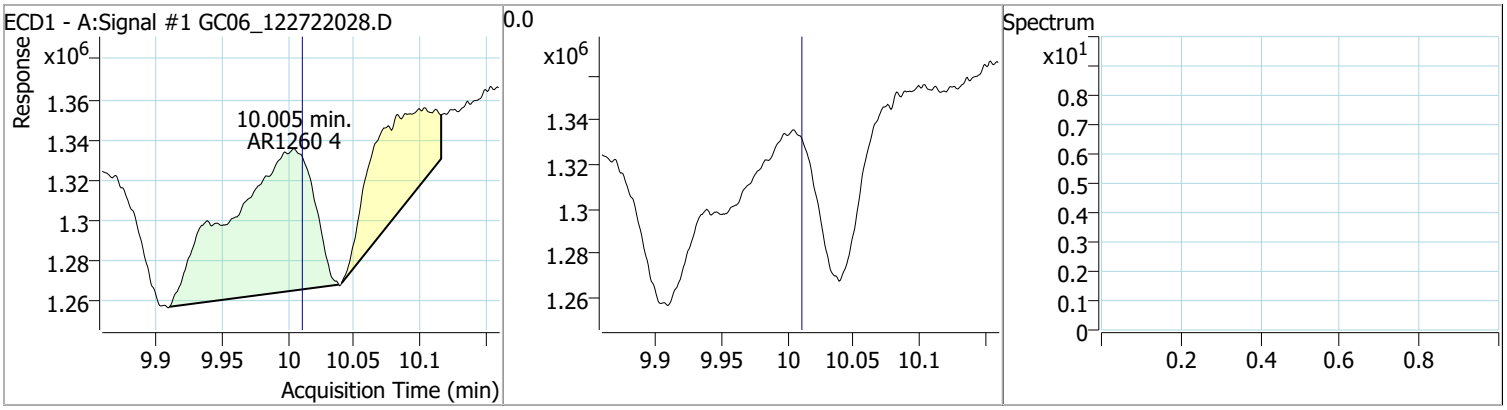
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	0.1410	9.64	0.13	865				



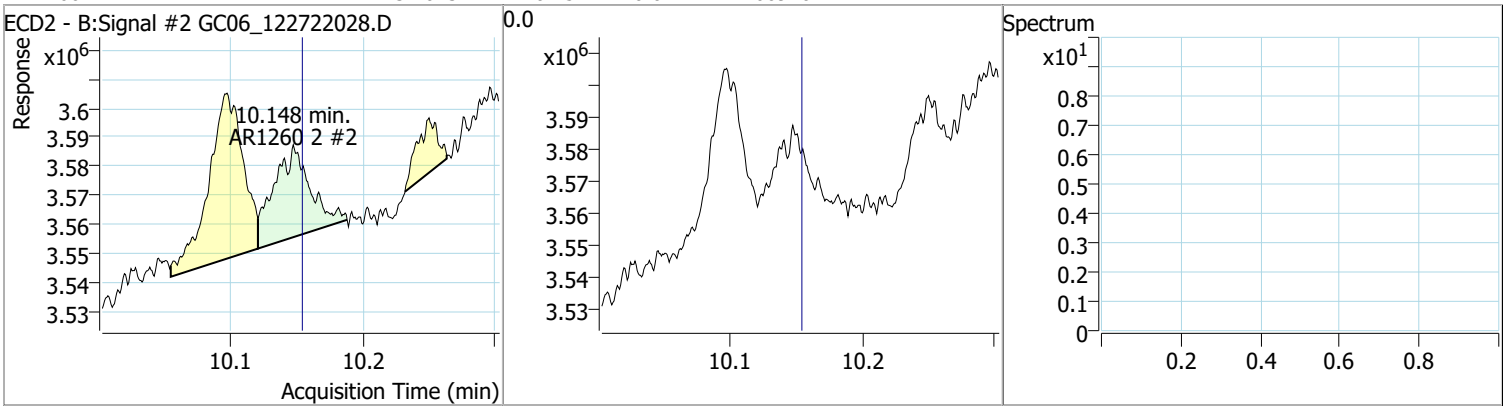
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	60.5089	9.90	0.02	956870				



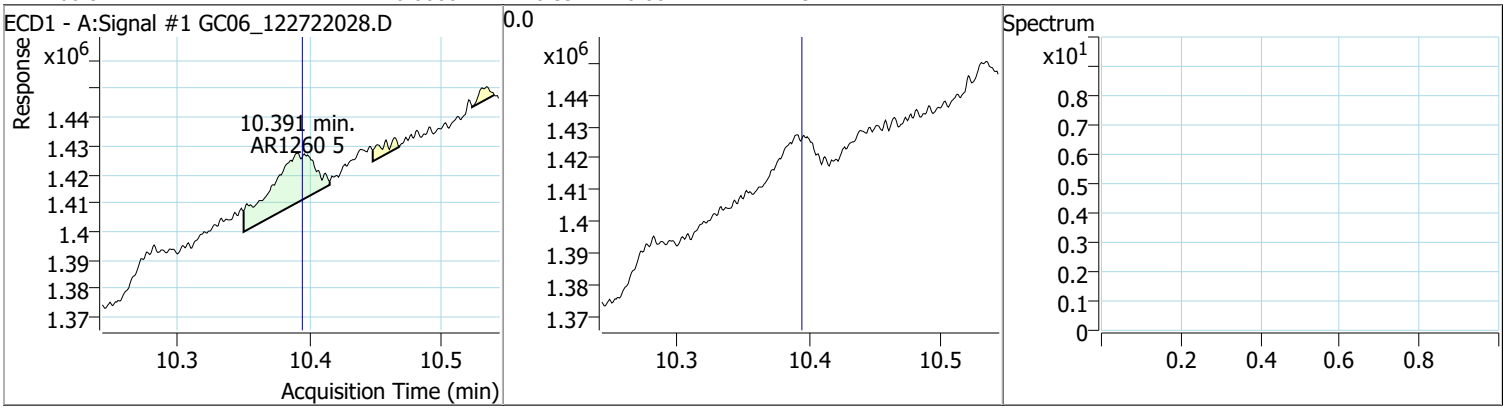
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	80.5572	10.01	0.00	311323				



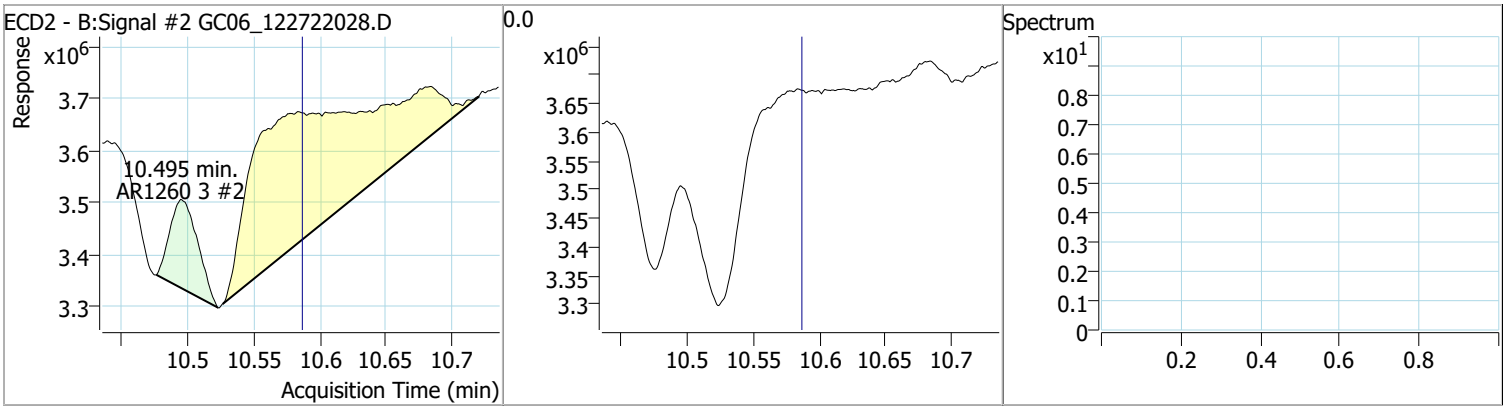
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	3.2073	10.15	-0.01	60940				



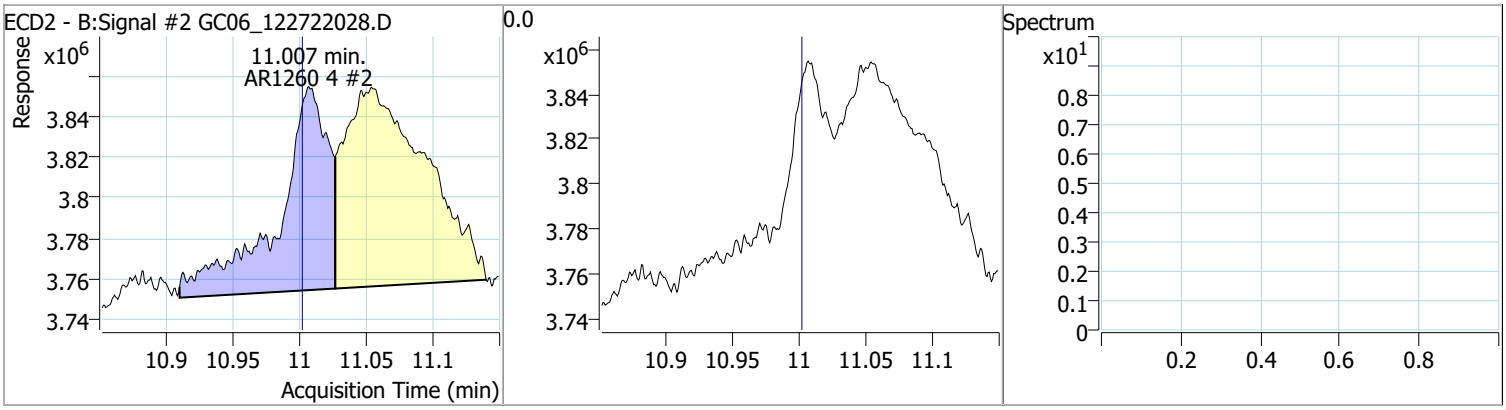
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	0.0000	10.39	0.00	41123				



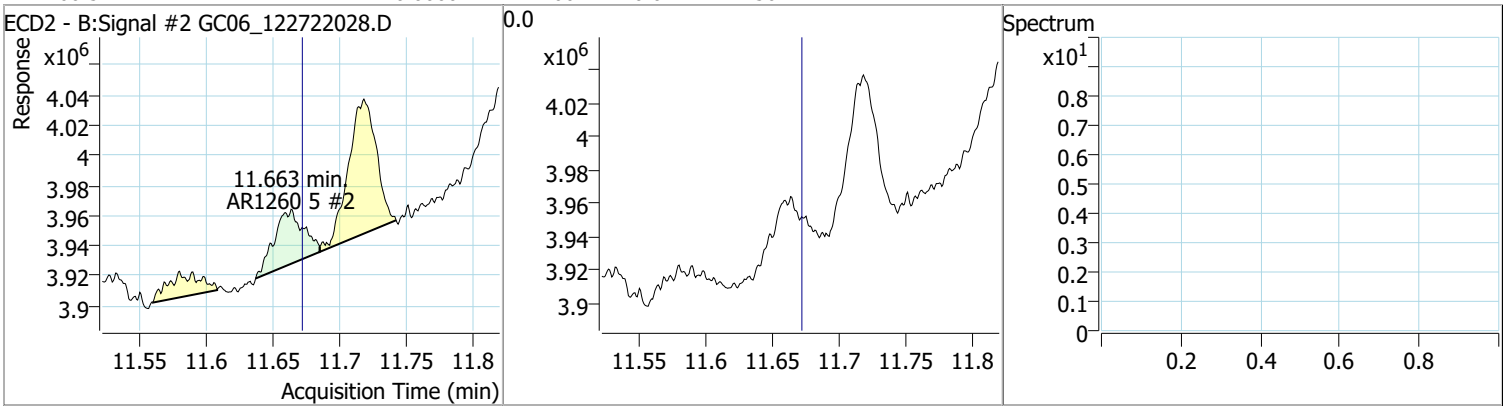
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	10.4556	10.50	-0.09	251463				



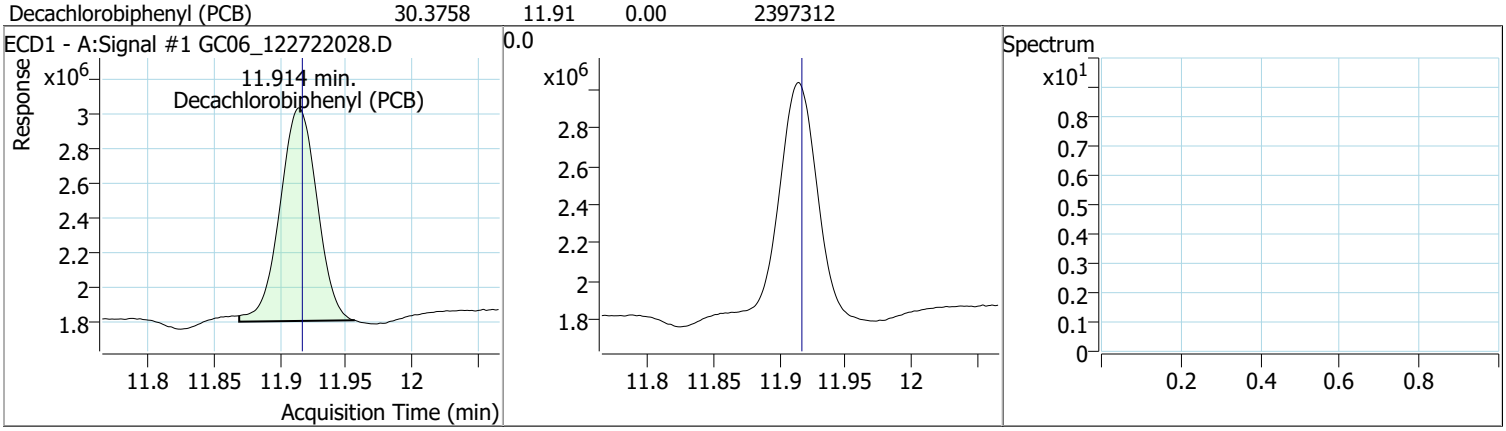
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	0.0000	11.01	0.01	264304				



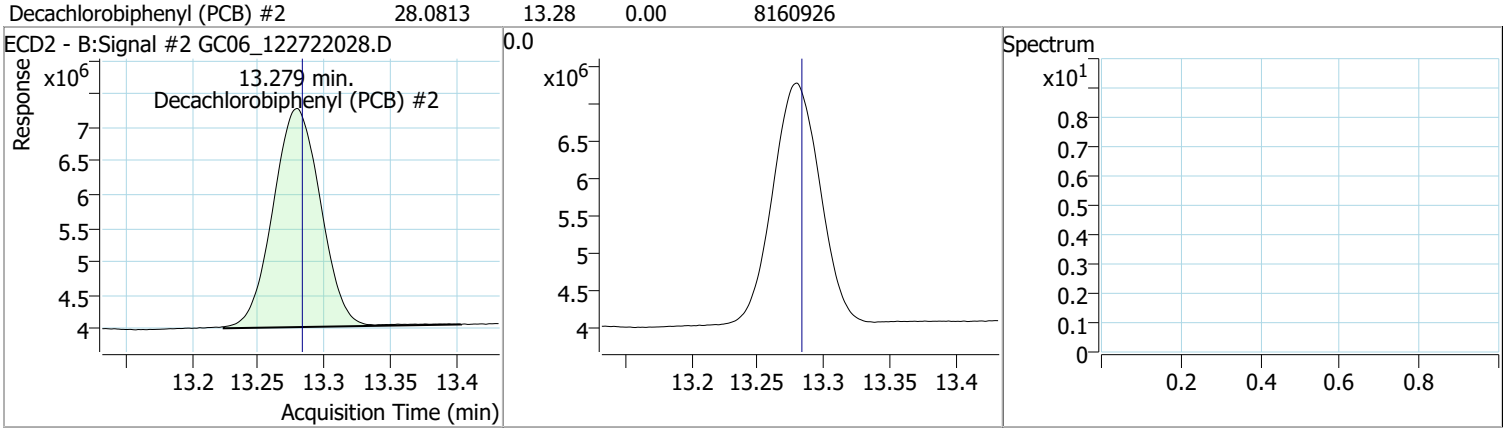
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	0.0000	11.66	-0.01	56122				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	30.3758	11.91	0.00	2397312				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	28.0813	13.28	0.00	8160926				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	475743-011	Client ID:	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-DUP-LA
Seqnum:	452520427029.1	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_122722029	Batch:	303863	Time:	27-DEC-2022 17:52
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	66.56	~~0.67~~ ~~FP~~	0.89	29%	0.50		x u
Aroclor-1016 Peak # 1	B	53.58	0.54	0.74	31%			
Aroclor-1016 Peak # 2	B	86.79	0.87	ND	221%			
Aroclor-1016 Peak # 3	B	183.9	1.84	0.73	87%			
Aroclor-1016 Peak # 4	B	1.564	0.02	2.90	198%			
Aroclor-1016 Peak # 5	B	6.937	0.07	0.12	52%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	13.30	ND	0.17	24%	0.50		u
Aroclor-1260 Peak # 1	B	44.41	0.44	0.32	34%			
Aroclor-1260 Peak # 2	B	3.351	0.03	0.03	24%			
Aroclor-1260 Peak # 3	B	9.872	0.10	ND				
Aroclor-1260 Peak # 4	B	24.52	0.25	0.55	77%			
Aroclor-1260 Peak # 5	B	-15.65	ND	ND	-108%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	30.27	0.5000	0.3027	61	19-121	u
Decachlorobiphenyl (PCB)	B	30.21	0.5000	0.3021	60	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_122722004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6120897	5522859	-9.77
1-bromo-2-nitrobenzene (PCB)	A	1313242	1080579	-17.72

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

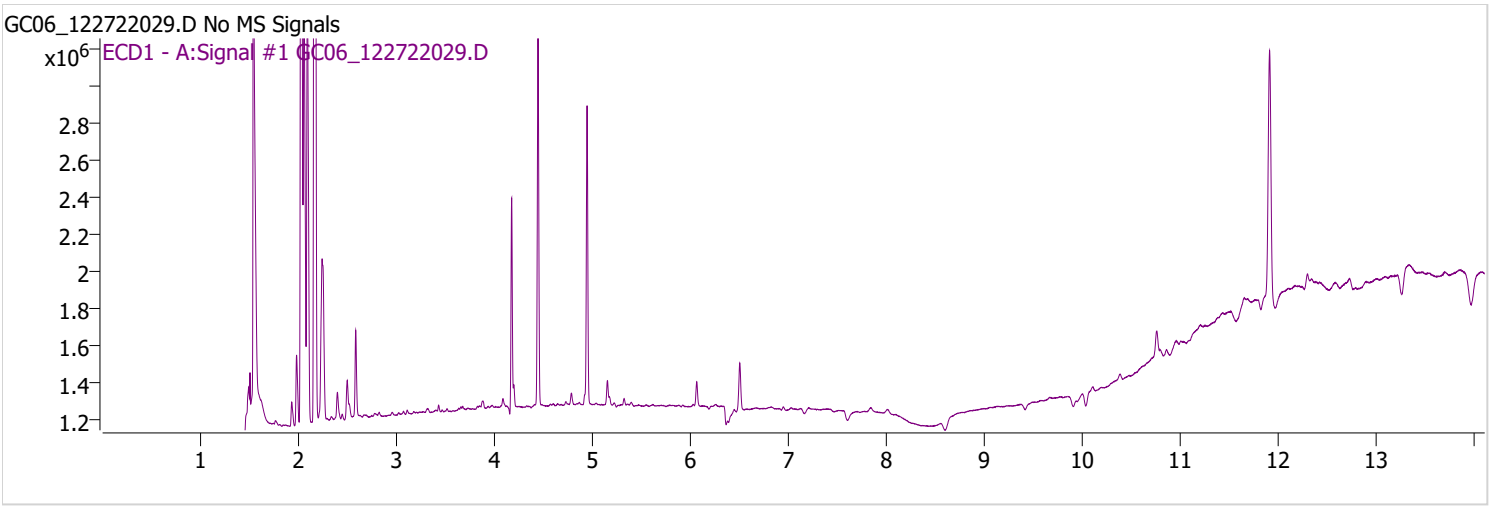
ISTD (CCV gc06_122722004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.42	4.42	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

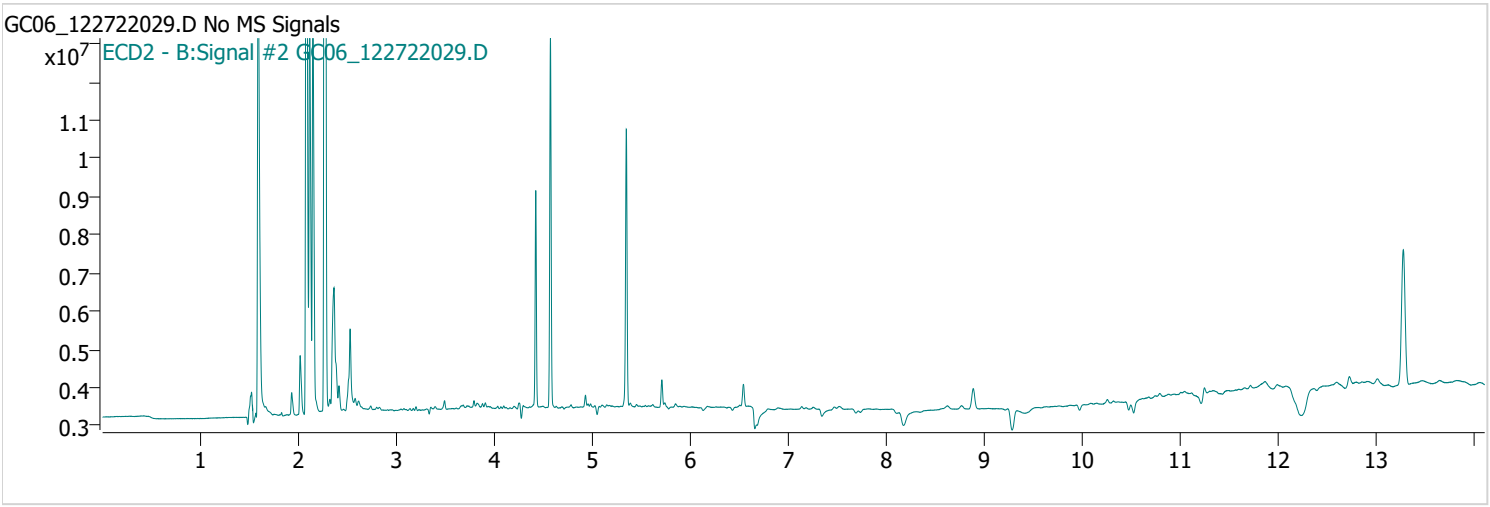
Analyst: MES 12/28/22 *

Reviewer: LW 12/30/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_122722029.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/27/2022 5:52:59 PM
Sample Name	475743-011, 303863, 1	Instrument	SVOA-GC06
Vial	18	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_14a.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	122722PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



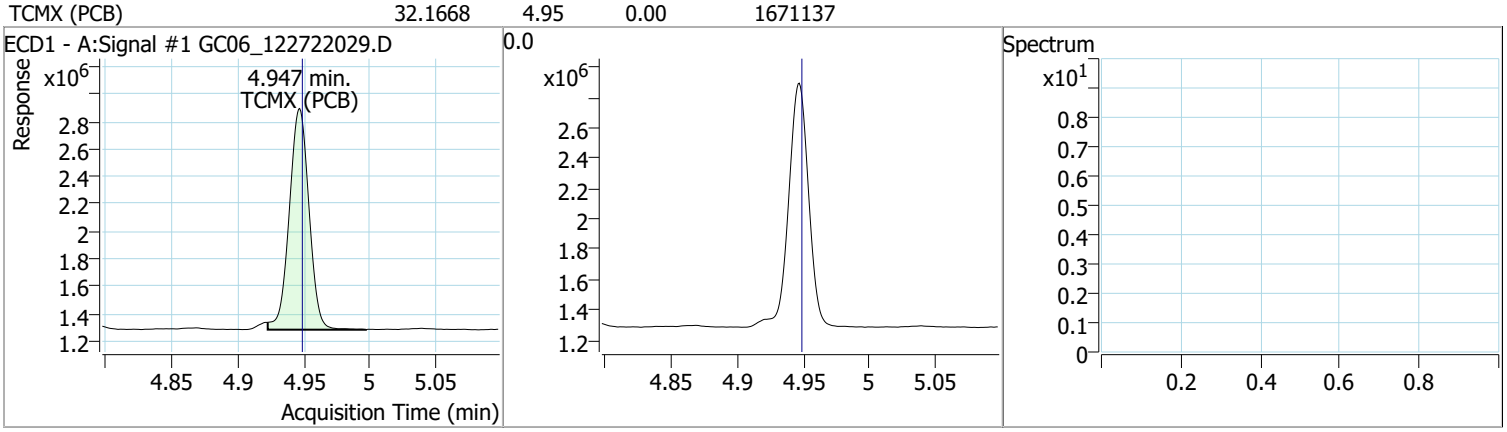


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.177	0.0	1080579.016	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.423	0.0	5522859.499	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.947	0.0	1671137.298	32.1668	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 160.83%		*	
S TCMX (PCB) #2	5.347	0.0	8028785.161	30.2707	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 151.35%		*	
S Decachlorobiphenyl (PCB)	11.915	0.0	2671375.261	36.4667	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 182.33%		*	
S Decachlorobiphenyl (PCB) #2	13.280	0.0	9081557.763	30.2154	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 151.08%		*	
Target Compounds							QValue

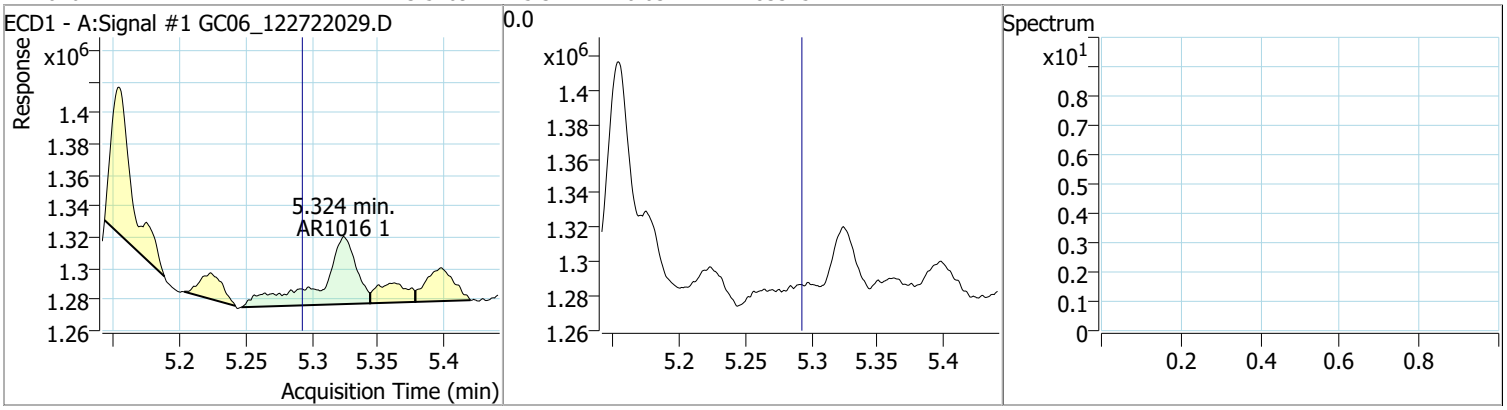
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.324	0.0	83315.224	73.5409	ng/ml	100
T AR1016 2	5.619	0.0	24701.449	0.0000	ng/ml	100
T AR1016 1 #2	5.851	0.0	307539.429	53.5780	ng/ml	100
T AR1016 3	6.066	0.0	209089.497	72.7930	ng/ml	100
T AR1016 4	6.258	0.0	634442.593	290.4126	ng/ml	100
T AR1016 2 #2	6.174	0.0	719181.925	86.7949	ng/ml	100
T AR1016 5	6.673	0.0	20834.334	11.8402	ng/ml	100
T AR1016 3 #2	6.897	0.0	2769507.123	183.9506	ng/ml	100
T AR1016 4 #2	7.018	0.0	16807.022	1.5637	ng/ml	100
T AR1016 5 #2	7.717	0.0	60606.950	6.9370	ng/ml	100
T AR1260 1	8.553	0.0	115126.055	31.5115	ng/ml	100
T AR1260 2	9.132	0.0	14734.423	2.6460	ng/ml	100
T AR1260 3	0.000		0	N.D.		
T AR1260 1 #2	9.942	0.0	729856.094	44.4060	ng/ml	100
T AR1260 4	10.006	0.0	217814.909	55.4134	ng/ml	100
T AR1260 2 #2	10.149	0.0	66179.582	3.3512	ng/ml	100
T AR1260 5	10.386	0.0	87022.263	0.0000	ng/ml	100
T AR1260 3 #2	10.497	0.0	246767.970	9.8720	ng/ml	100
T AR1260 4 #2	11.048	0.0	660934.016	24.5213	ng/ml	100
T AR1260 5 #2	11.661	0.0	62701.869	0.0000	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

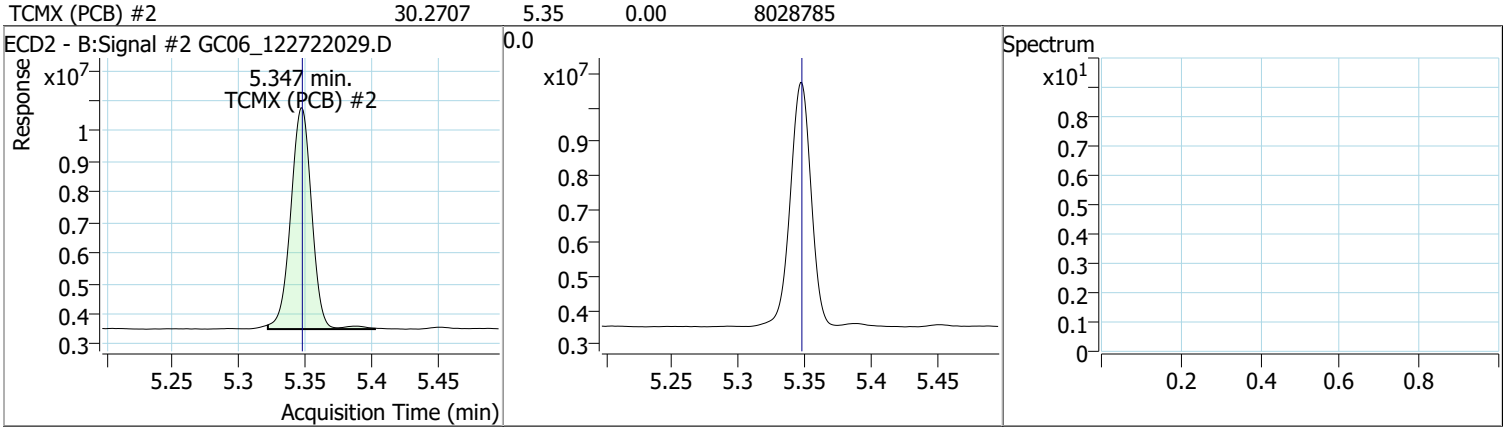
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	32.1668	4.95	0.00	1671137				



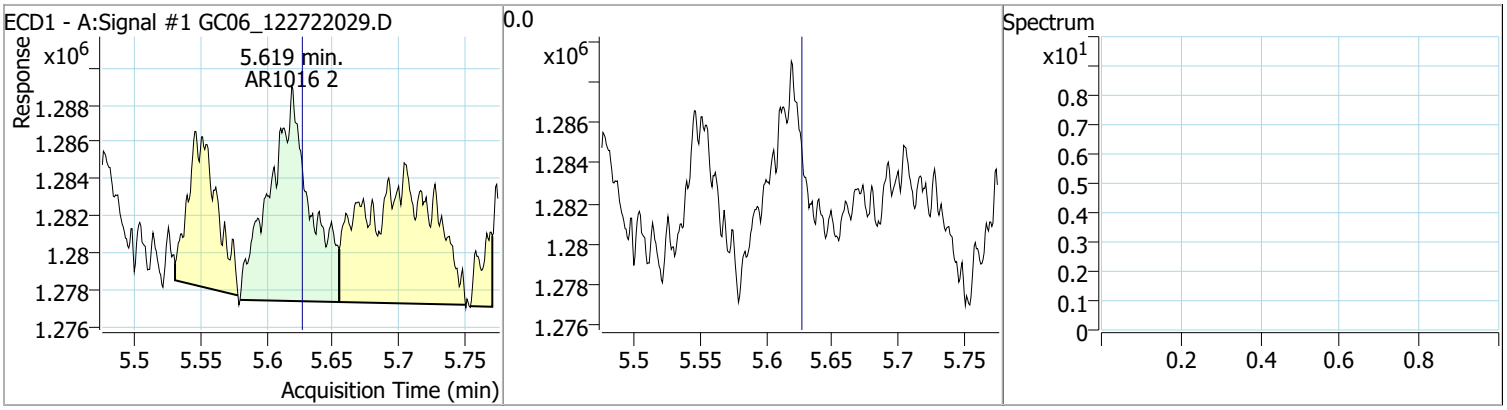
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	73.5409	5.32	0.03	83315				



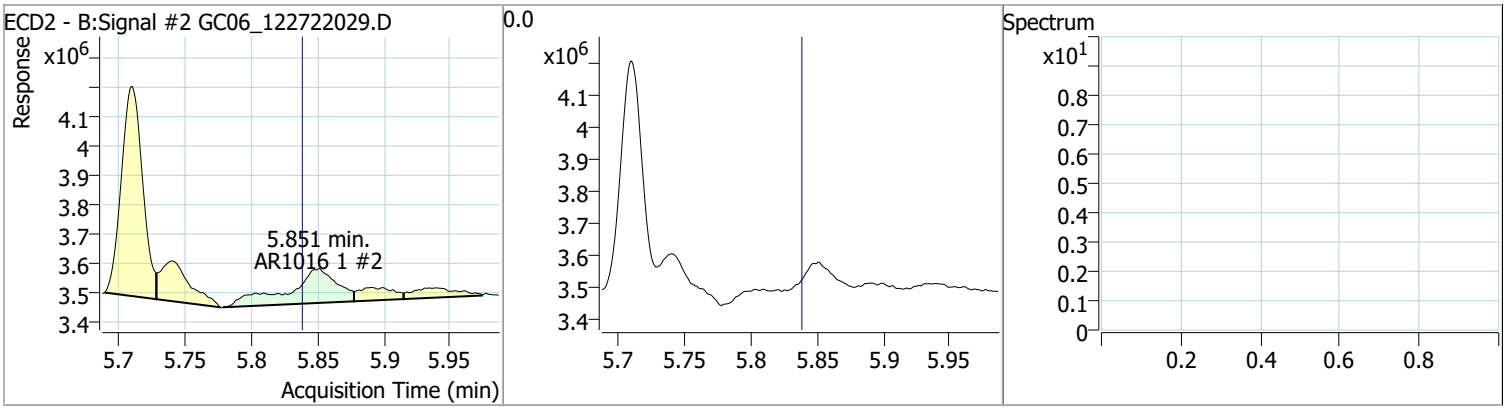
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	30.2707	5.35	0.00	8028785				



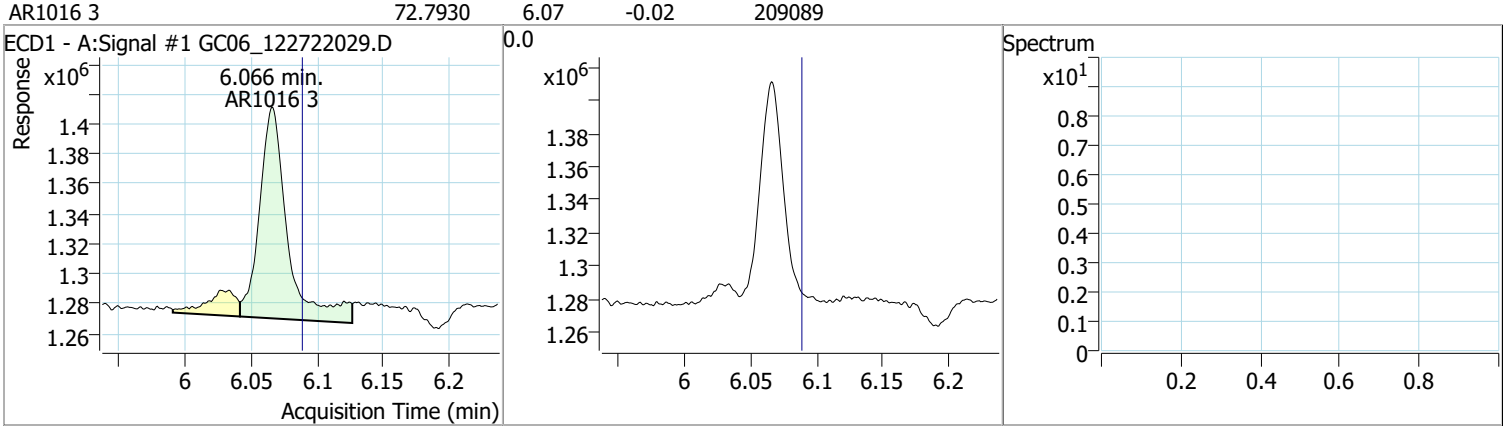
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.62	-0.01	24701				



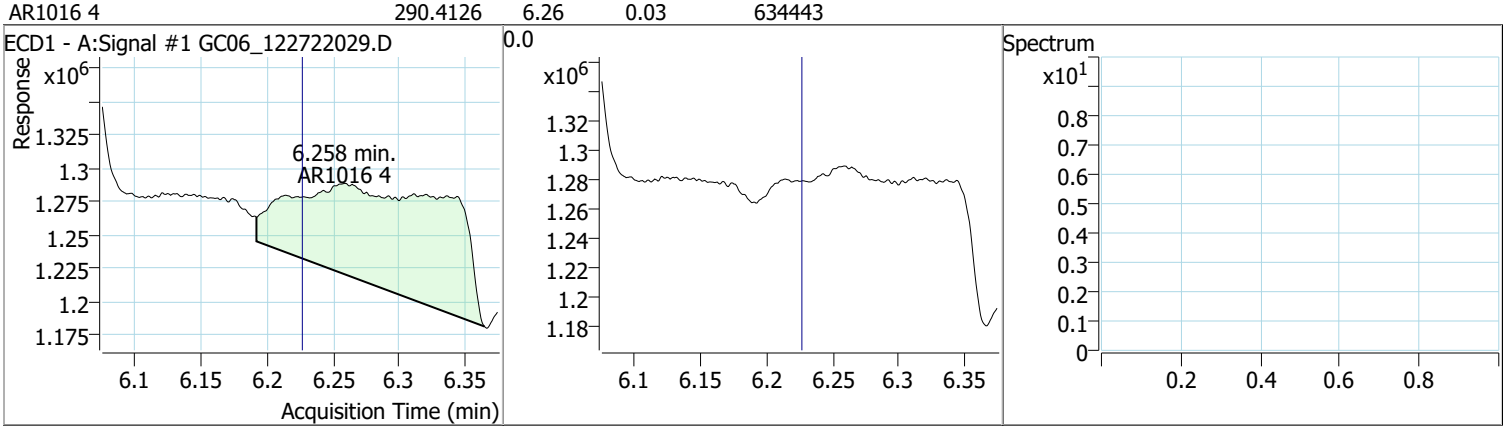
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	53.5780	5.85	0.01	307539				



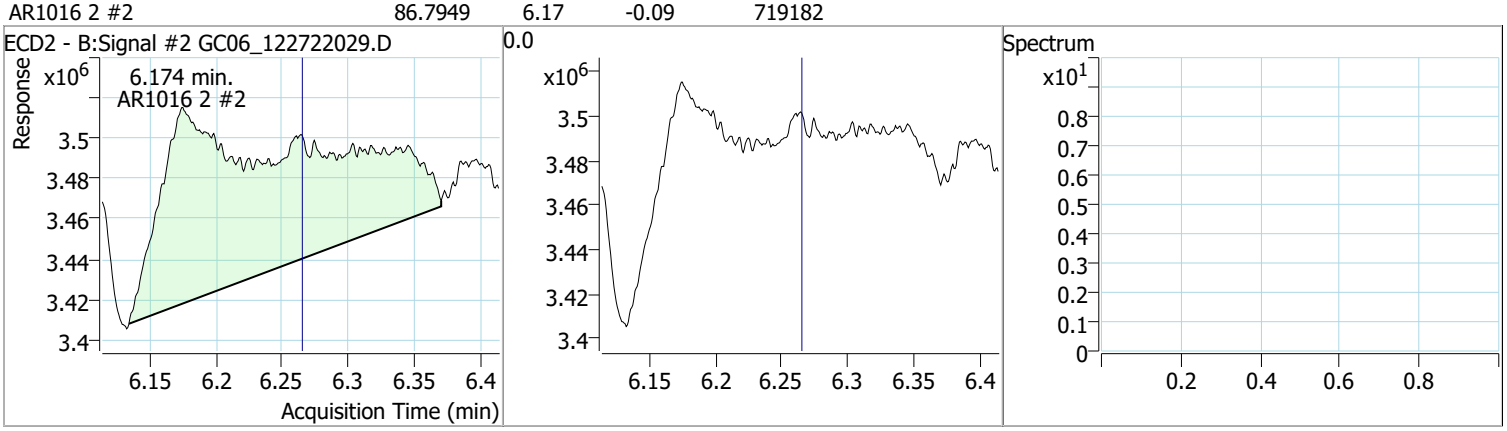
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	72.7930	6.07	-0.02	209089				



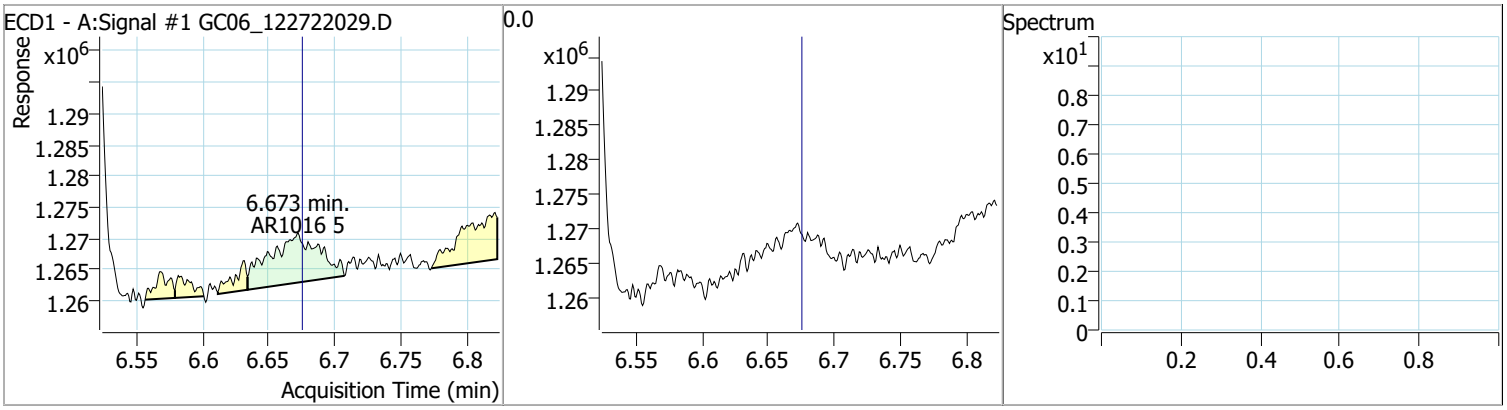
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	290.4126	6.26	0.03	634443				



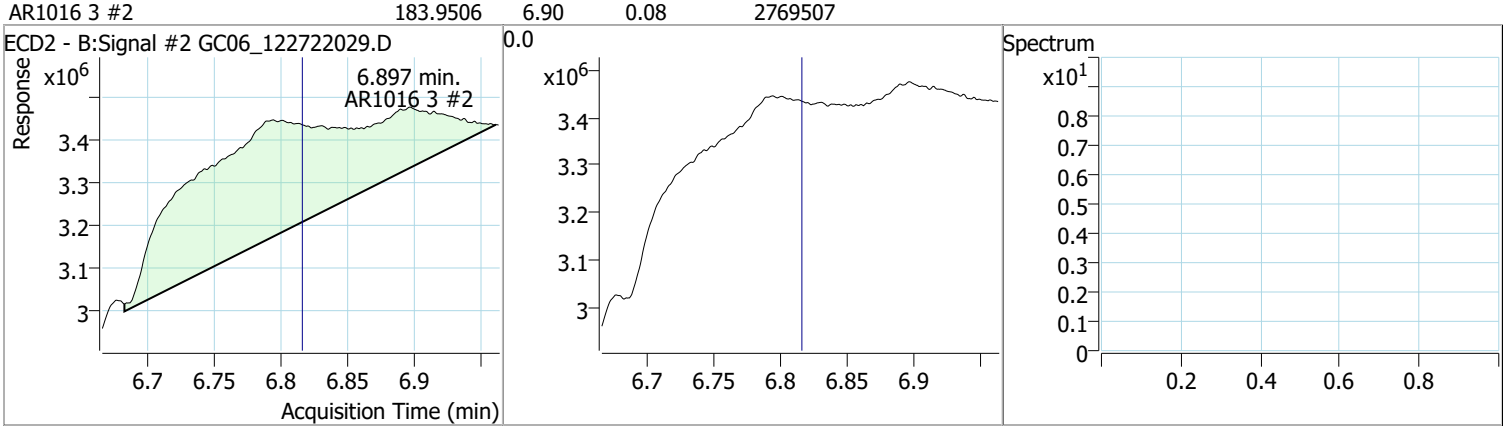
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	86.7949	6.17	-0.09	719182				



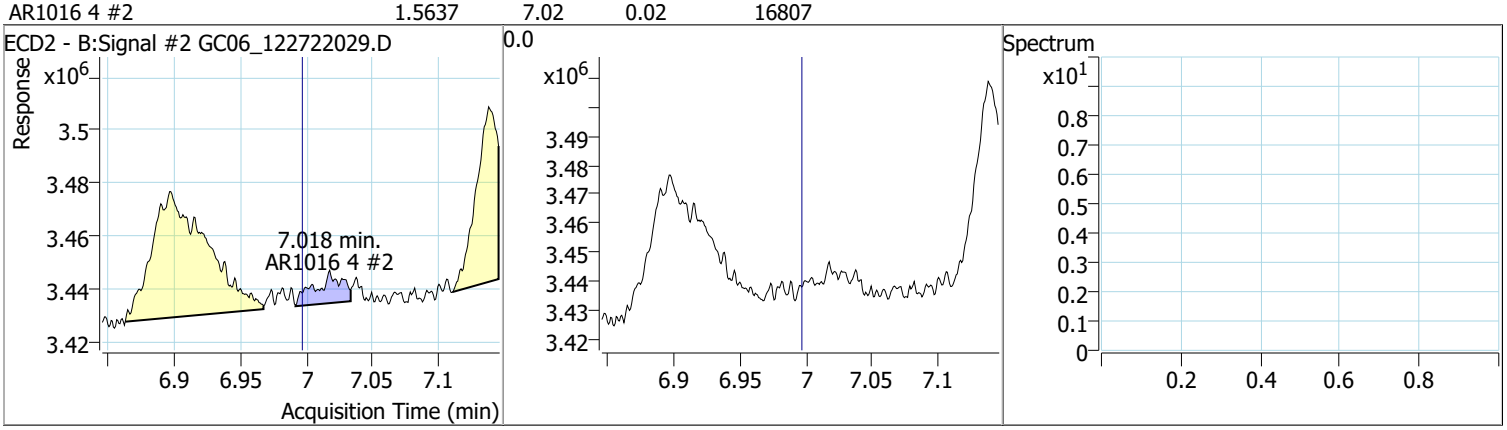
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	11.8402	6.67	0.00	20834				



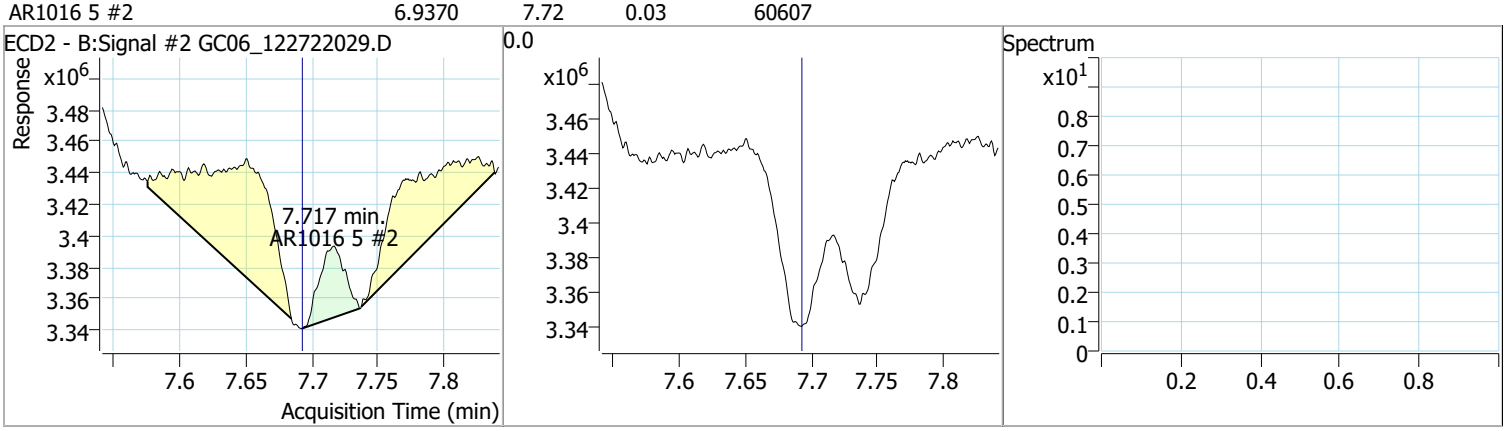
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	183.9506	6.90	0.08	2769507				



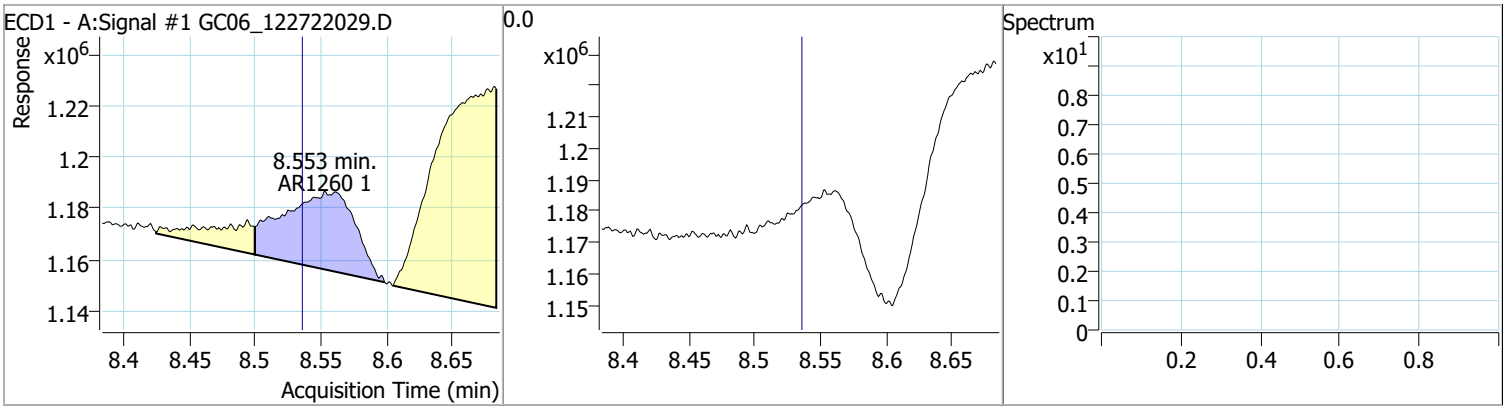
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	1.5637	7.02	0.02	16807				



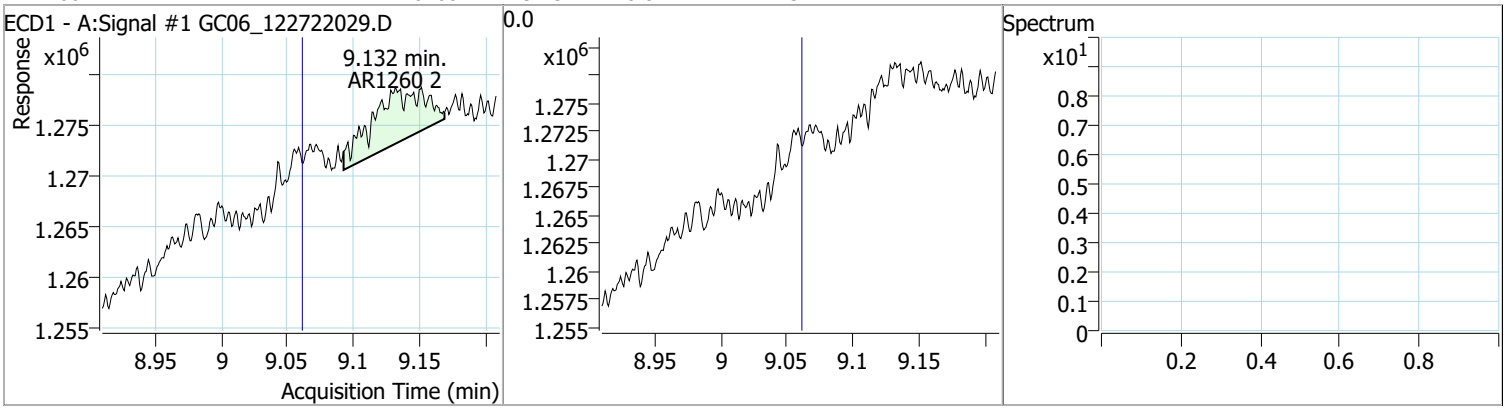
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	6.9370	7.72	0.03	60607				



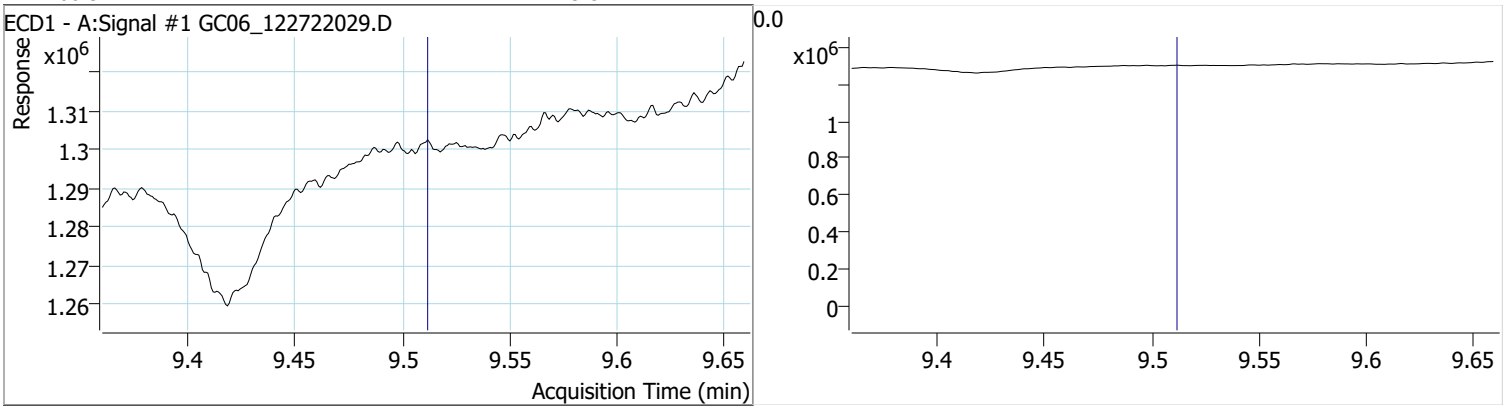
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	31.5115	8.55	0.02	115126				



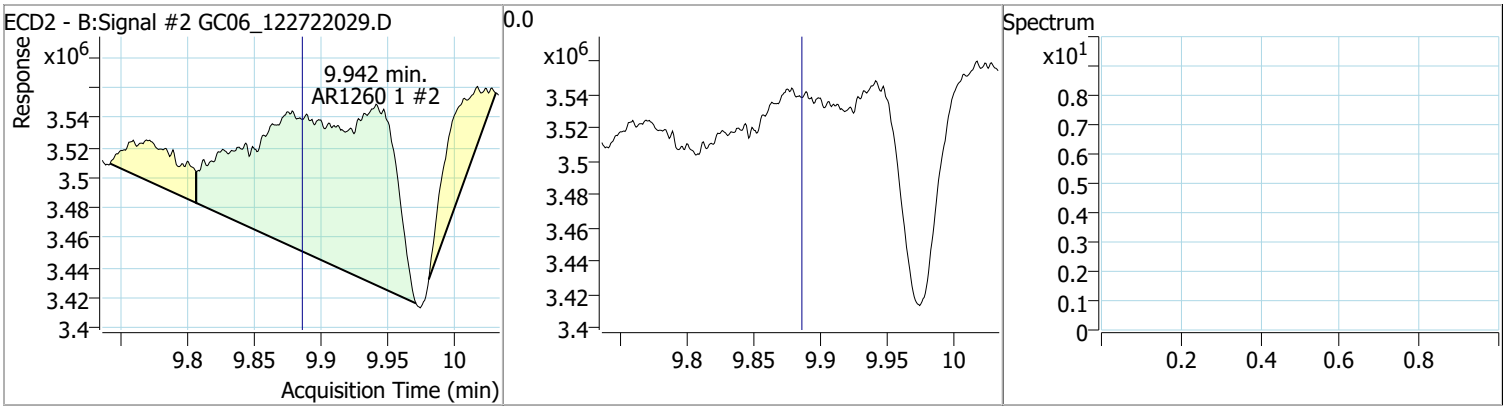
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	2.6460	9.13	0.07	14734				



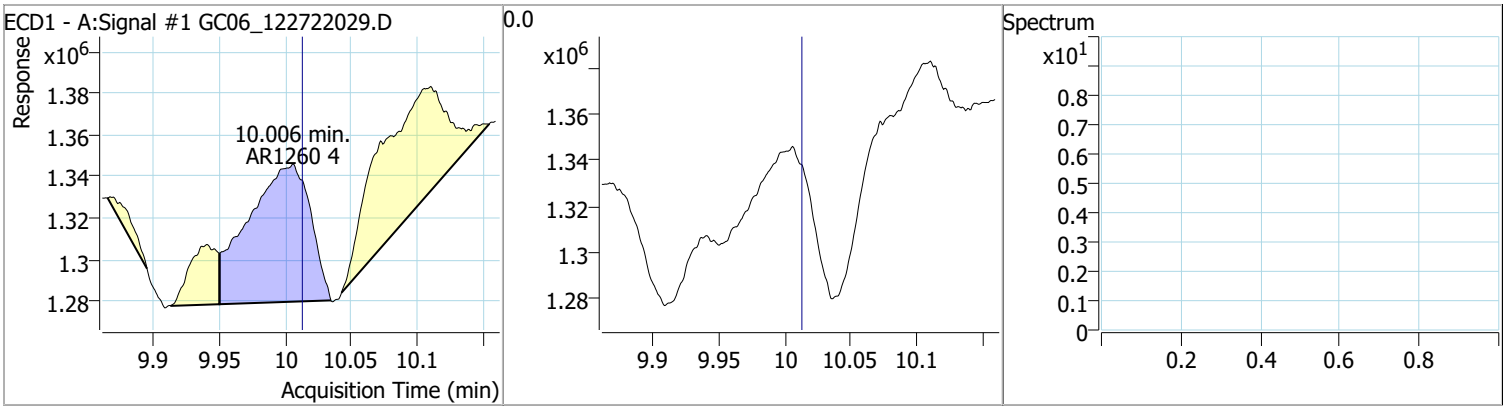
Compound	Conc.	Exp RT	QIon	Exp Ratio
AR1260 3	N.D.	9.51		



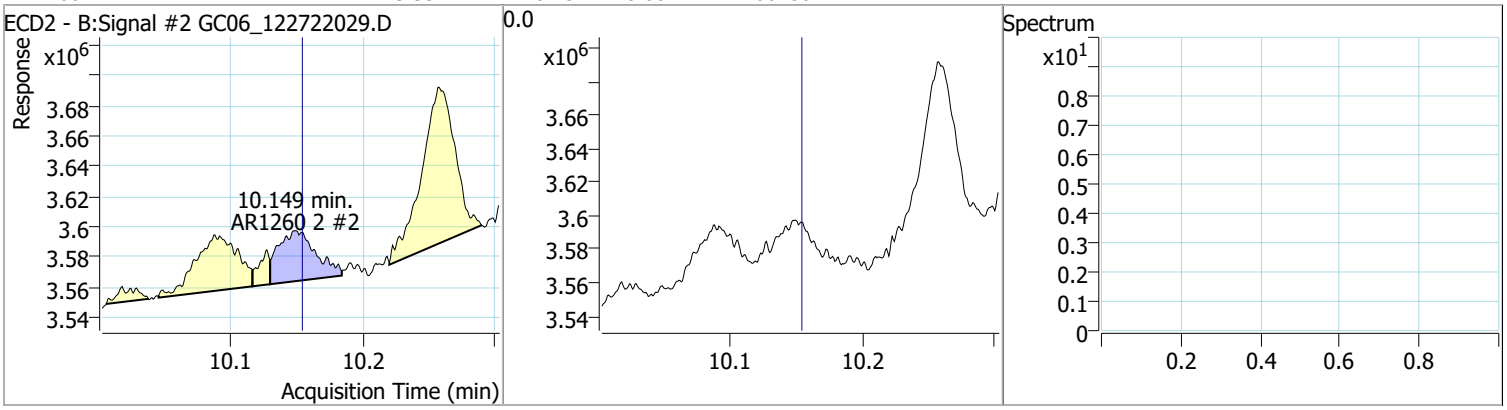
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	44.4060	9.94	0.06	729856				



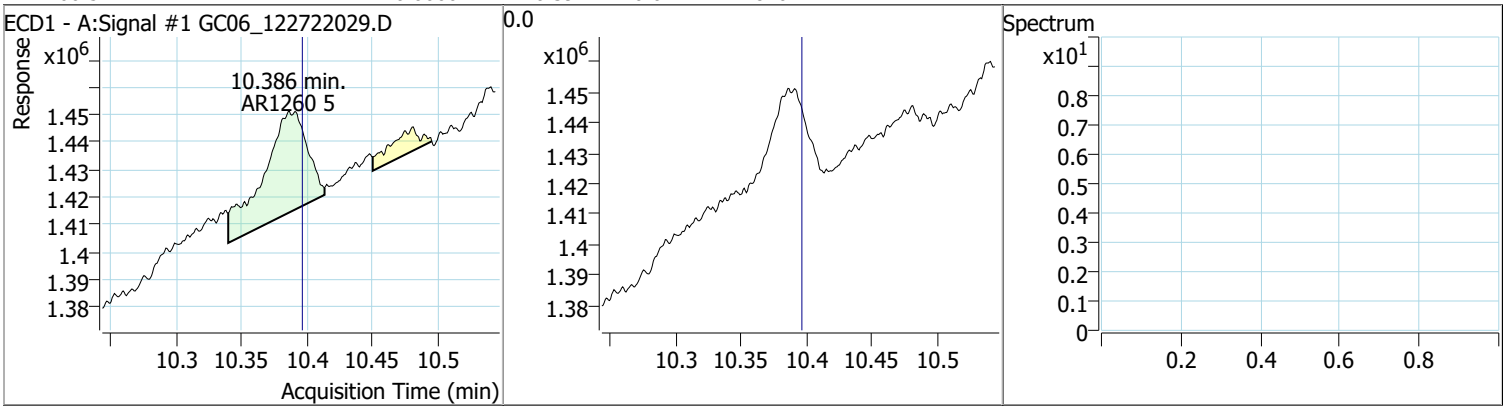
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	55.4134	10.01	0.00	217815				



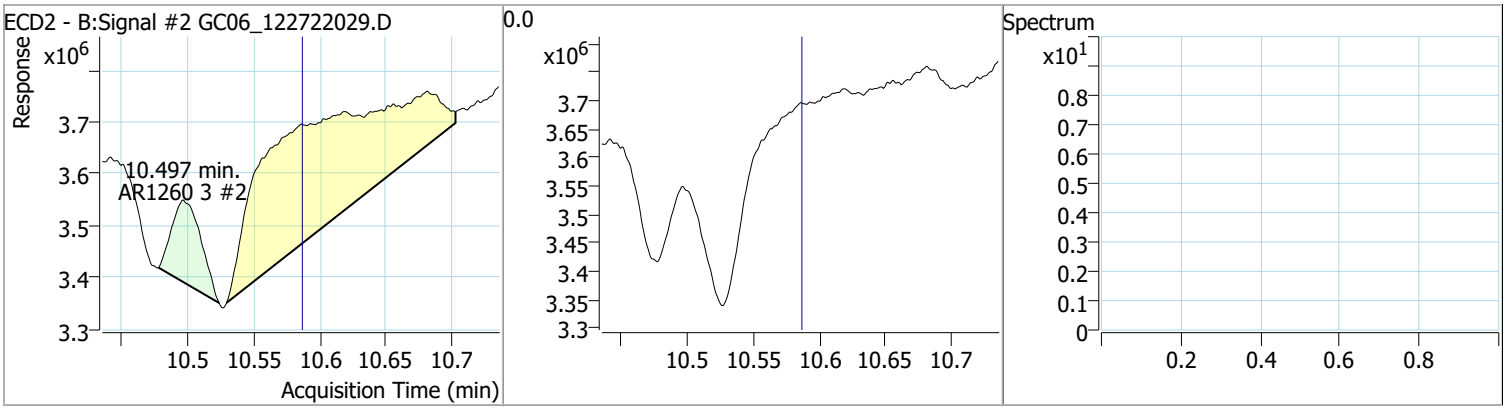
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AR1260 2 #2	3.3512	10.15	0.00	66180				



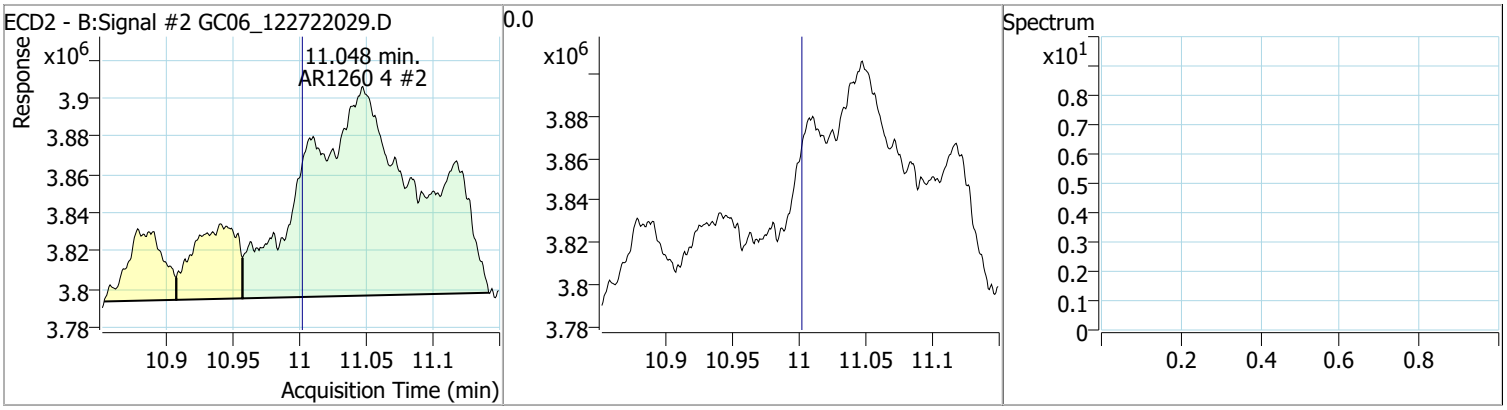
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	0.0000	10.39	-0.01	87022				



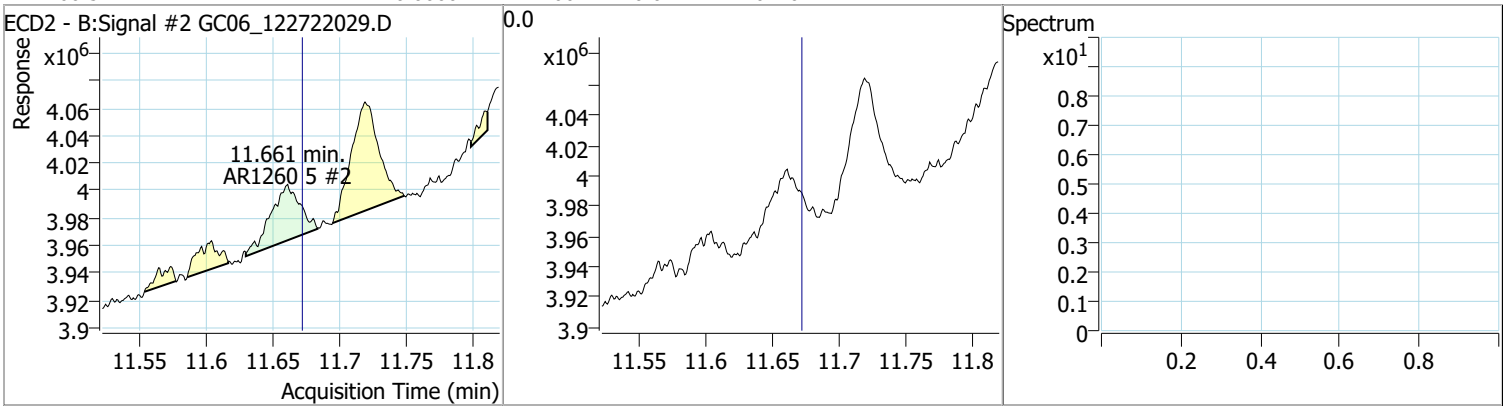
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	9.8720	10.50	-0.09	246768				



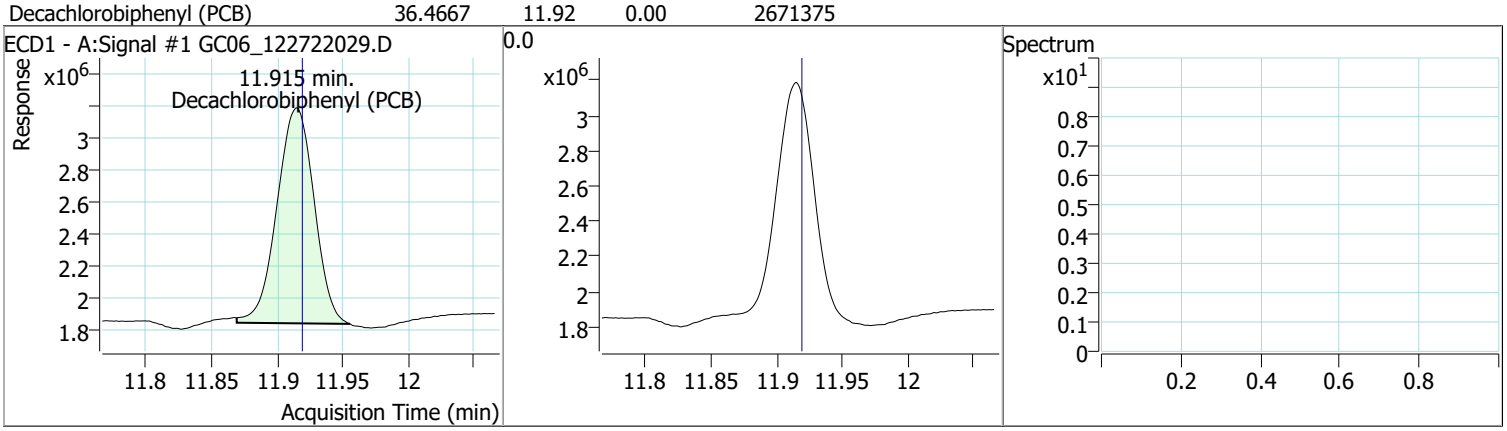
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	24.5213	11.05	0.05	660934				



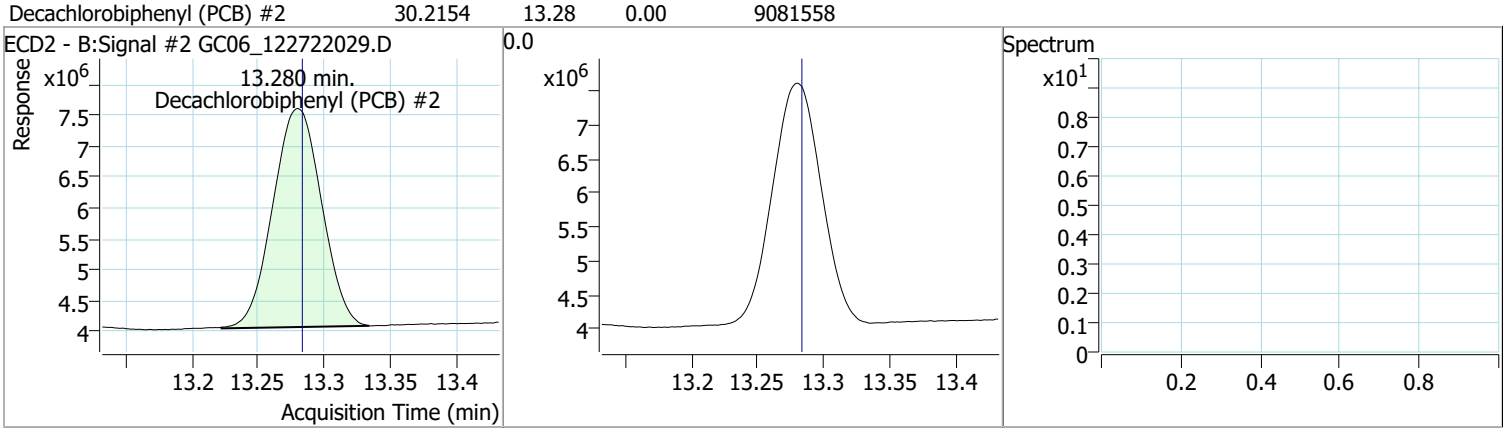
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	0.0000	11.66	-0.01	62702				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	36.4667	11.92	0.00	2671375				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	30.2154	13.28	0.00	9081558				



ENTHALPY SAMPLE USER REPORT FOR EPA 8082

Inst:	SVOA-GC06	Lab ID:	475743-013	Client ID:	ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-P-LA
Seqnum:	452520427030.1	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	gc06_122722030	Batch:	303863	Time:	27-DEC-2022 18:11
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Blank	Flags
Aroclor-1016	B	62.31	~~0.62~~ ~~FP~~	0.18	110%	0.50		x u
Aroclor-1016 Peak # 1	B	36.64	0.37	0.08	128%			
Aroclor-1016 Peak # 2	B	41.92	0.42	ND	234%			
Aroclor-1016 Peak # 3	B	225.8	2.26	0.53	124%			
Aroclor-1016 Peak # 4	B	1.522	0.02	0.29	180%			
Aroclor-1016 Peak # 5	B	5.627	0.06	0.03	51%			
Aroclor-1221	B		ND			0.50		u
Aroclor-1232	B		ND			0.50		u
Aroclor-1242	B		ND			0.50		u
Aroclor-1248	B		ND			0.50		u
Aroclor-1254	B		ND			0.50		u
Aroclor-1260	B	14.03	ND	0.17	17%	0.50		u
Aroclor-1260 Peak # 1	B	44.01	0.44	0.34	25%			
Aroclor-1260 Peak # 2	B	2.797	0.03	0.01	134%			
Aroclor-1260 Peak # 3	B	8.881	0.09	0.03	103%			
Aroclor-1260 Peak # 4	B	26.97	0.27	0.57	72%			
Aroclor-1260 Peak # 5	B	-12.50	ND	ND	-6%			
Aroclor-1262	B		ND			0.50		u
Aroclor-1268	B		ND			0.50		u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	26.96	0.5000	0.2696	54	19-121	u
Decachlorobiphenyl (PCB)	B	28.90	0.5000	0.2890	58	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_122722004)	Ch	CCV Abund	SAMPLE Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6120897	5258596	-14.09
1-bromo-2-nitrobenzene (PCB)	A	1313242	1142577	-13.00

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

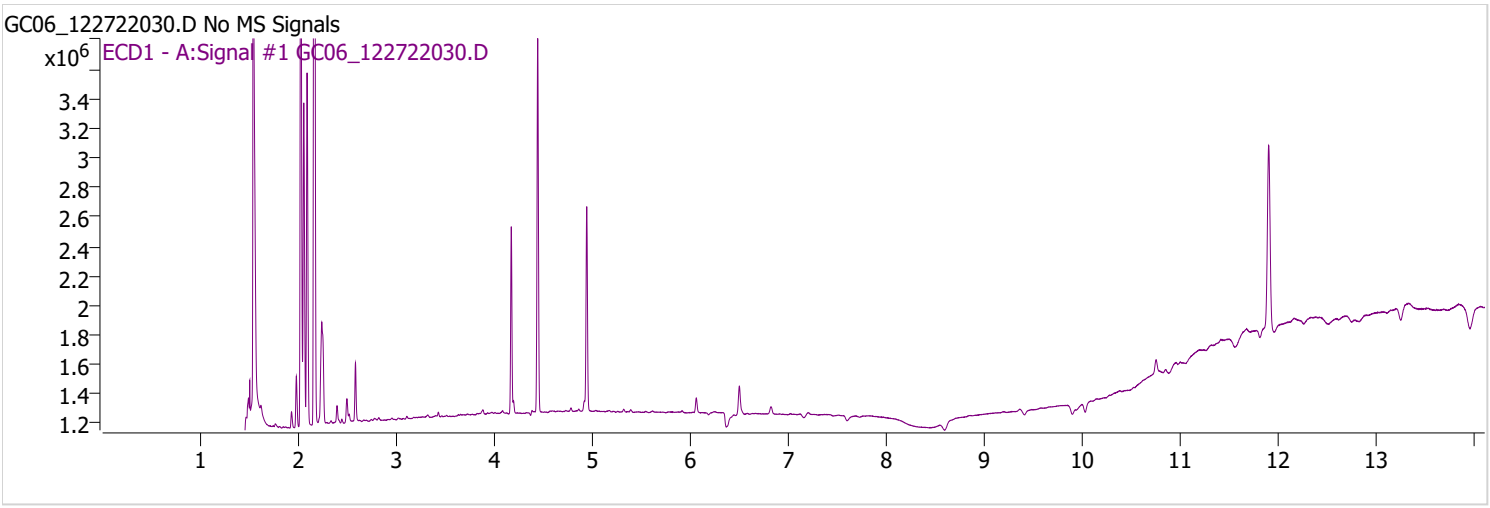
ISTD (CCV gc06_122722004)	Ch	CCV RT	SAMPLE RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.42	4.42	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

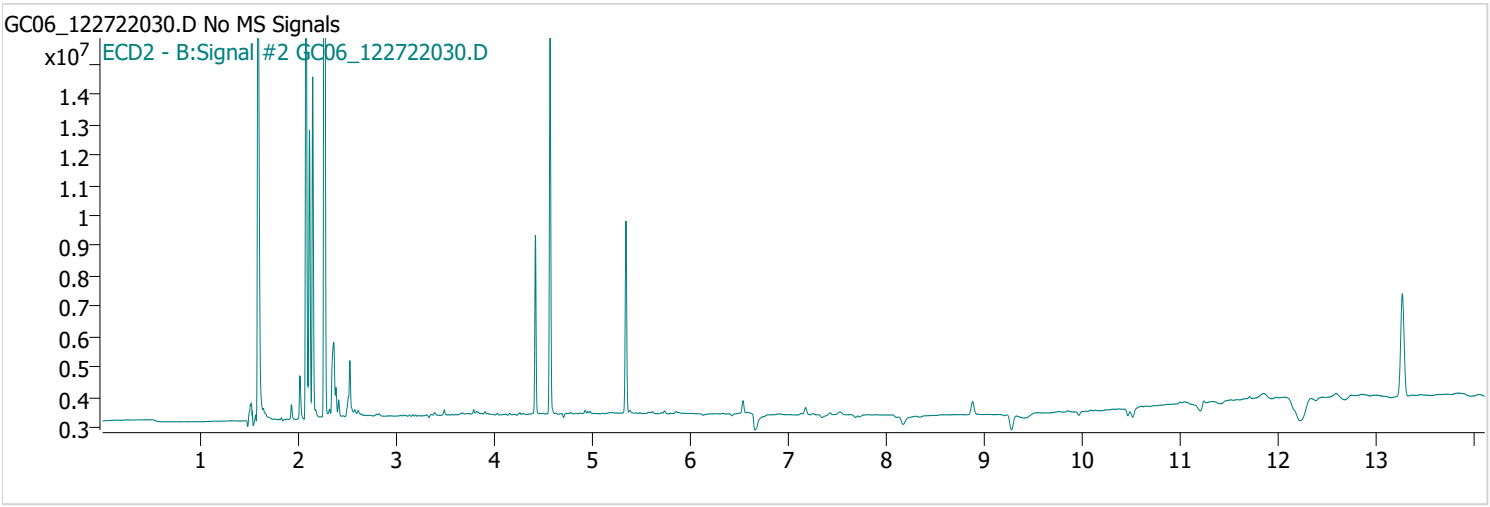
Analyst: MES 12/28/22 *

Reviewer: LW 12/30/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_122722030.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/27/2022 6:11:19 PM
Sample Name	475743-013, 303863, 1	Instrument	SVOA-GC06
Vial	19	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_14a.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	122722PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



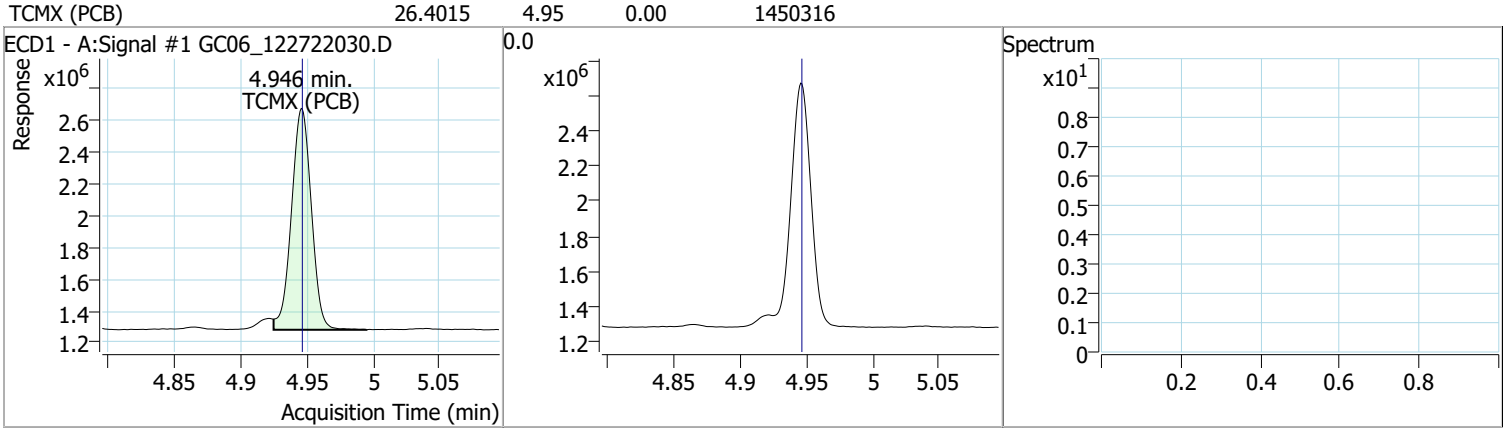


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.175	0.0	1142577.204	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.422	0.0	5258596.445	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	4.946	0.0	1450316.373	26.4015	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 132.01%			
S TCMX (PCB) #2	5.347	0.0	6808113.641	26.9584	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 134.79%			
S Decachlorobiphenyl (PCB)	11.913	0.0	2419749.279	30.6199	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 153.10%		*	
S Decachlorobiphenyl (PCB) #2	13.278	0.0	8294845.908	28.8987	ng/ml		-0.004
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 144.49%			
Target Compounds							QValue

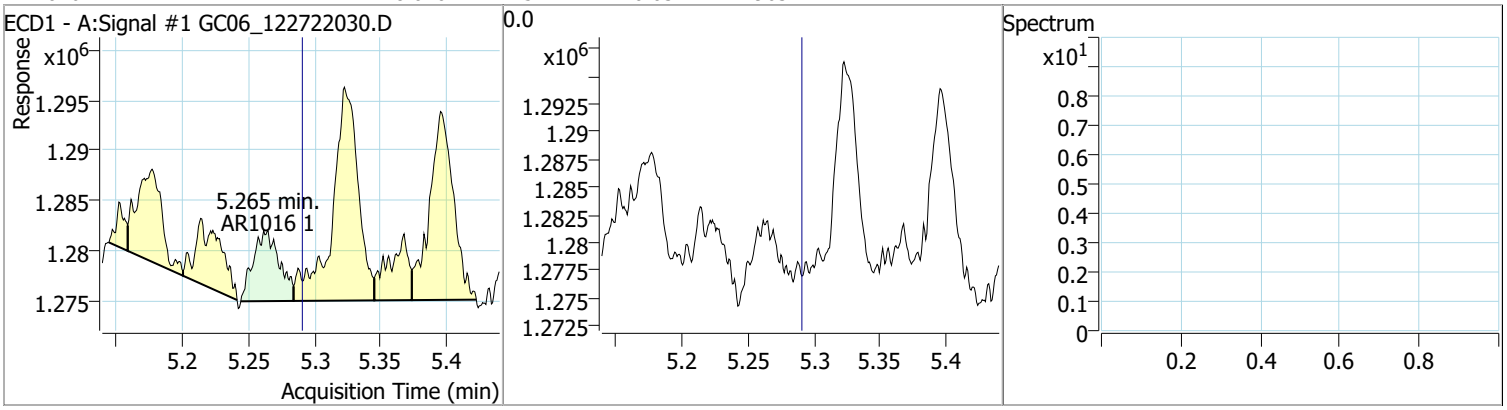
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.265	0.0	9631.697	8.0404	ng/ml	100
T AR1016 2	5.620	0.0	28803.865	0.0000	ng/ml	100
T AR1016 1 #2	5.861	0.0	200277.263	36.6448	ng/ml	100
T AR1016 3	6.065	0.0	161900.124	53.3059	ng/ml	100
T AR1016 4	6.257	0.0	67665.657	29.2929	ng/ml	100
T AR1016 2 #2	6.333	0.0	330715.315	41.9183	ng/ml	100
T AR1016 5	6.669	0.0	6210.774	3.3381	ng/ml	100
T AR1016 3 #2	6.923	0.0	3237318.128	225.8282	ng/ml	100
T AR1016 4 #2	6.996	0.0	15572.037	1.5216	ng/ml	100
T AR1016 5 #2	7.713	0.0	46810.030	5.6271	ng/ml	100
T AR1260 1	8.548	0.0	131981.217	34.1648	ng/ml	100
T AR1260 2	9.059	0.0	3278.174	0.5568	ng/ml	100
T AR1260 3	9.369	0.0	17423.589	2.8311	ng/ml	100
T AR1260 1 #2	9.865	0.0	688735.287	44.0100	ng/ml	100
T AR1260 4	10.005	0.0	237043.009	57.4842	ng/ml	100
T AR1260 2 #2	10.139	0.0	52590.851	2.7969	ng/ml	100
T AR1260 5	10.388	0.0	43068.838	0.0000	ng/ml	100
T AR1260 3 #2	10.496	0.0	211368.597	8.8807	ng/ml	100
T AR1260 4 #2	11.057	0.0	661301.596	26.9704	ng/ml	100
T AR1260 5 #2	11.719	0.0	121964.188	0.0000	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

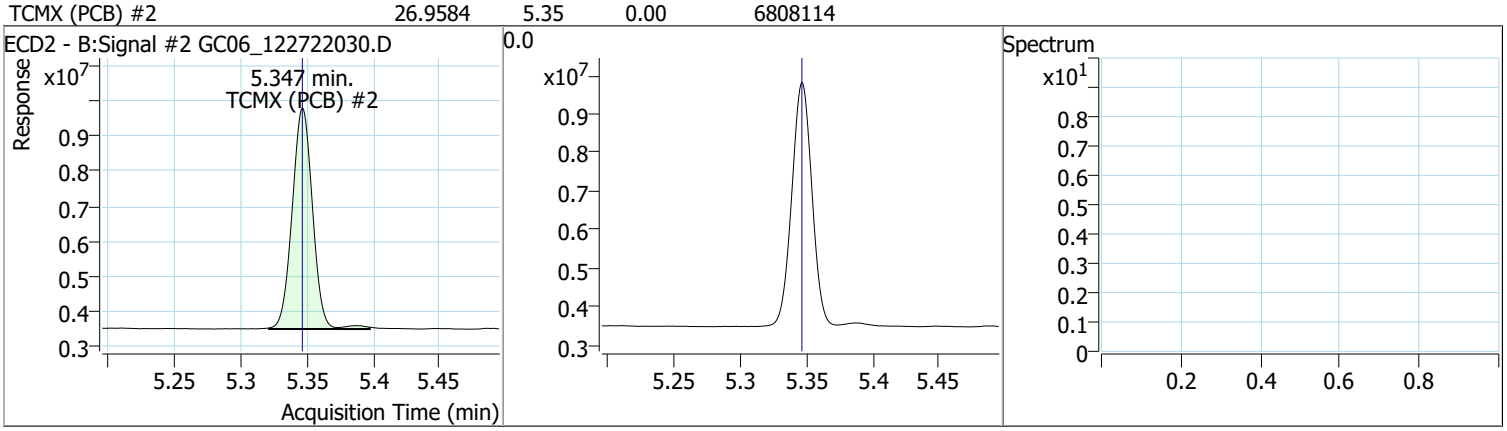
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	26.4015	4.95	0.00	1450316				



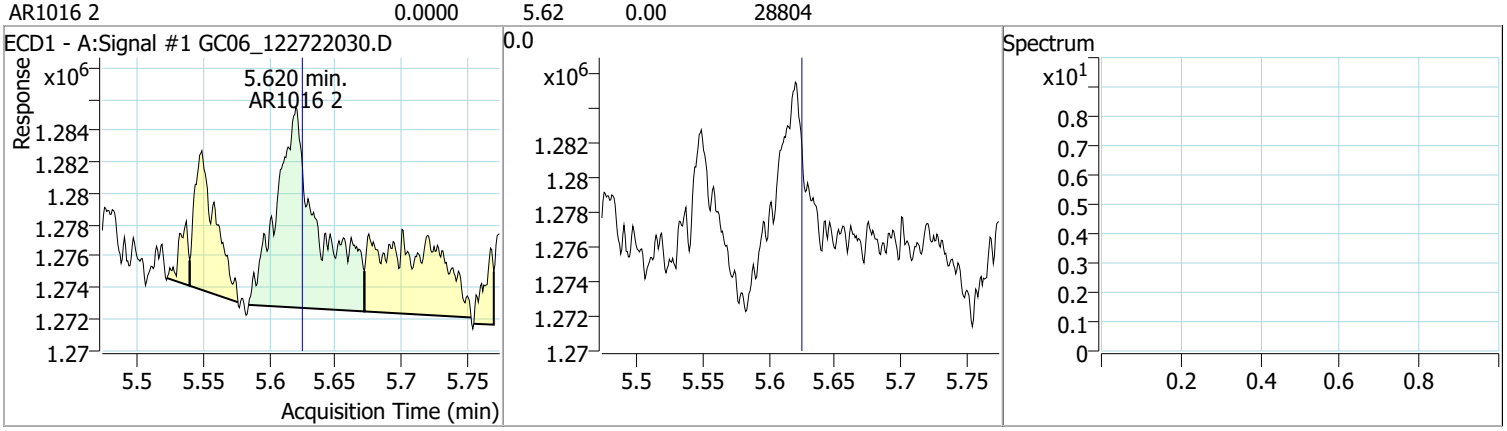
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	8.0404	5.27	-0.03	9632				



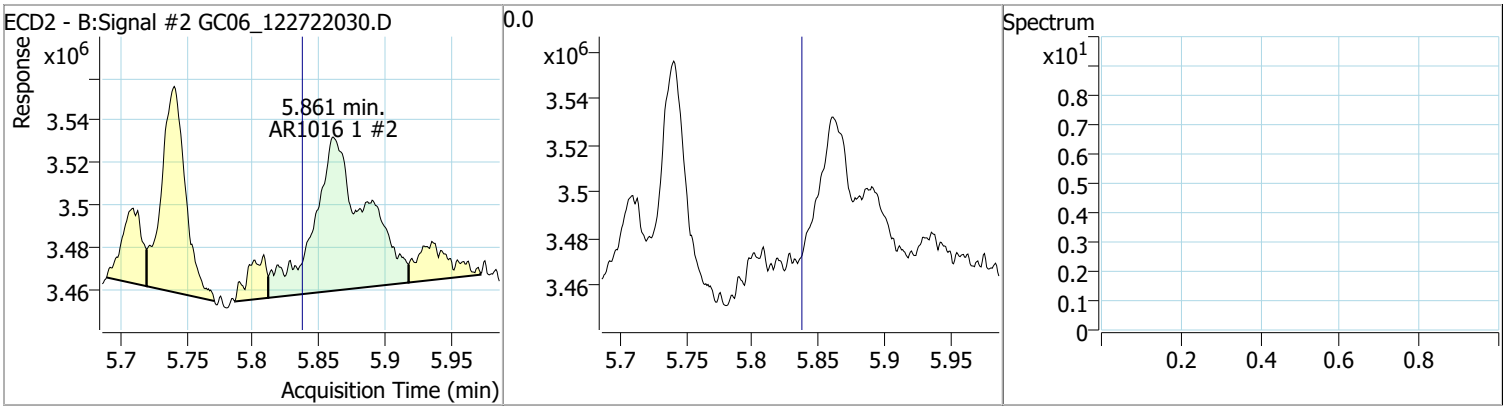
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	26.9584	5.35	0.00	6808114				



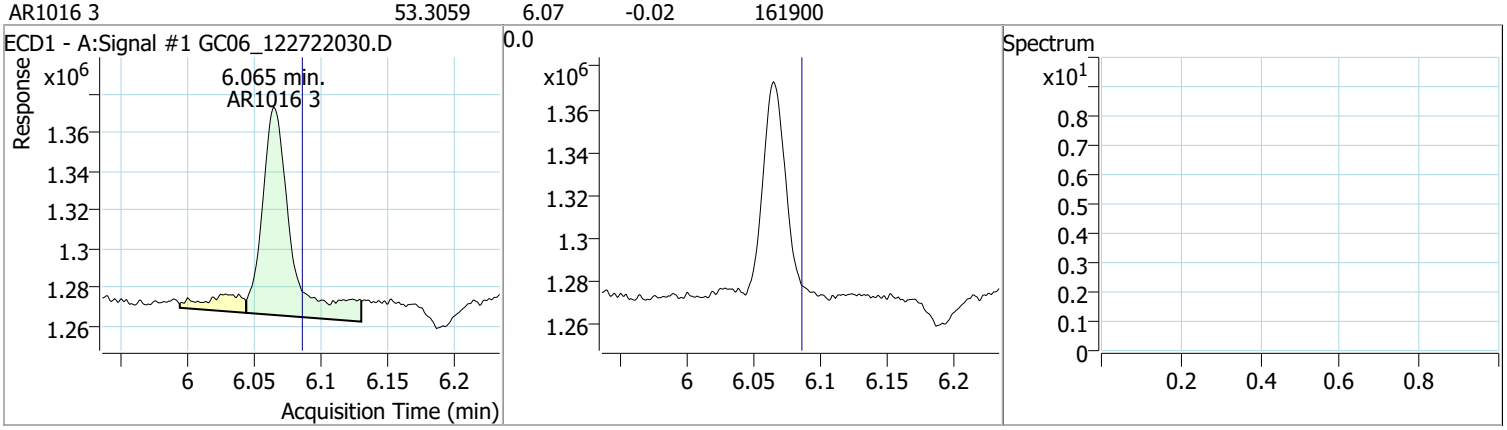
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.62	0.00	28804				



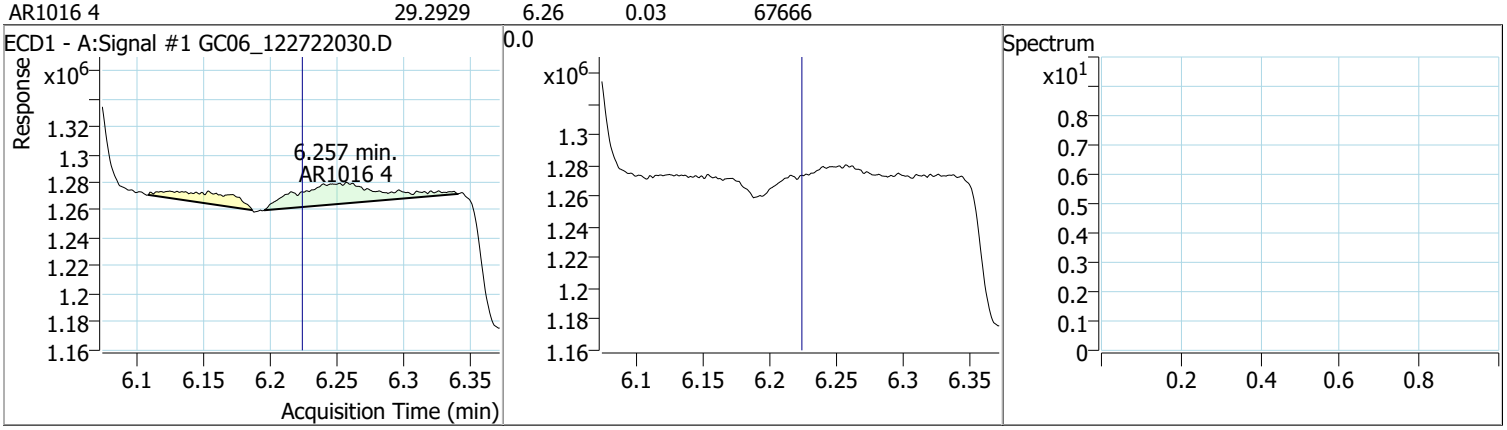
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	36.6448	5.86	0.02	200277				



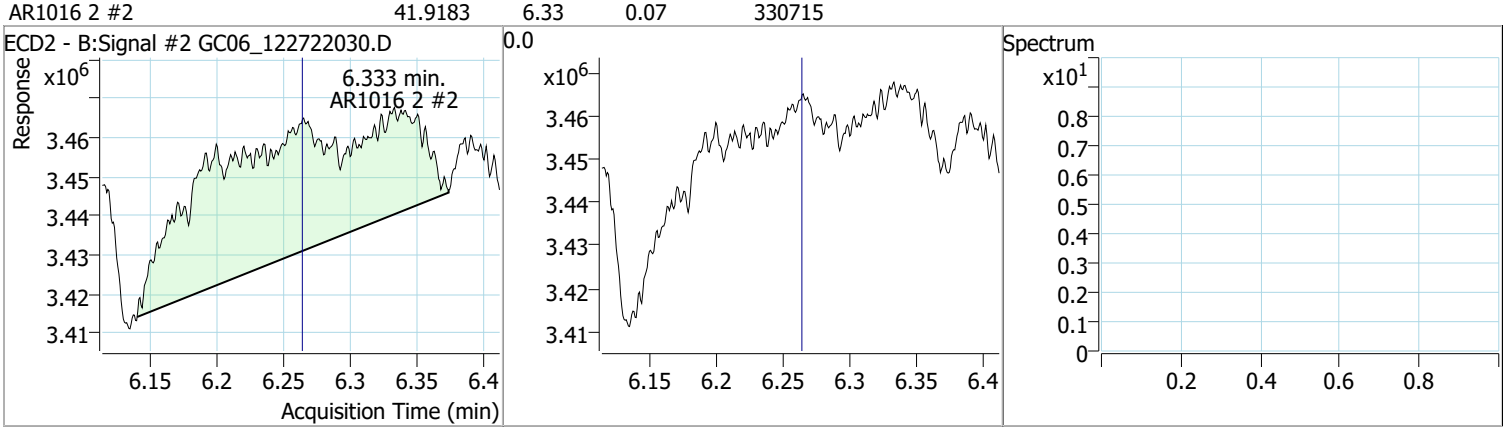
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	53.3059	6.07	-0.02	161900				



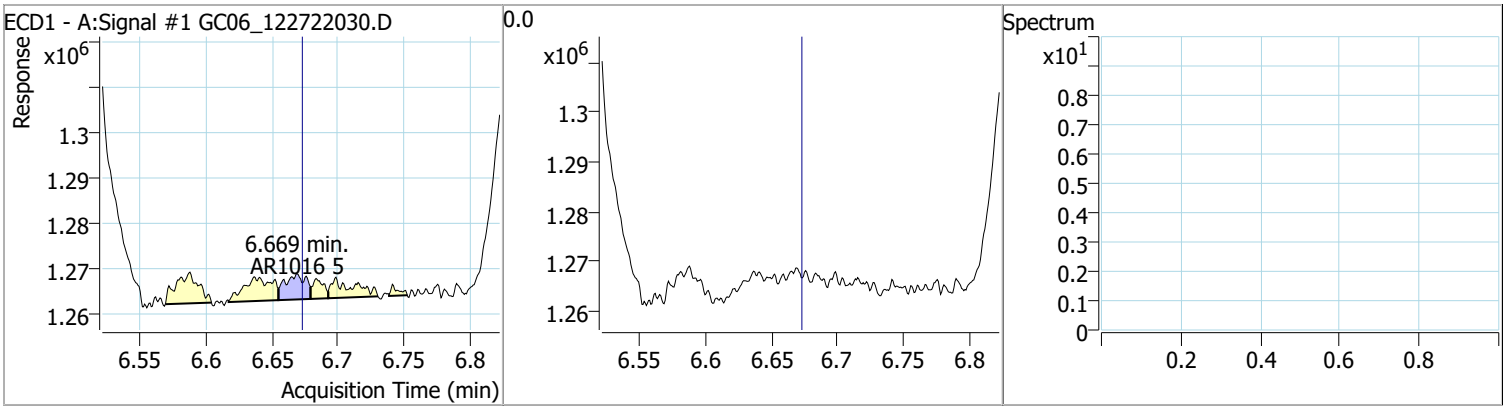
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	29.2929	6.26	0.03	67666				



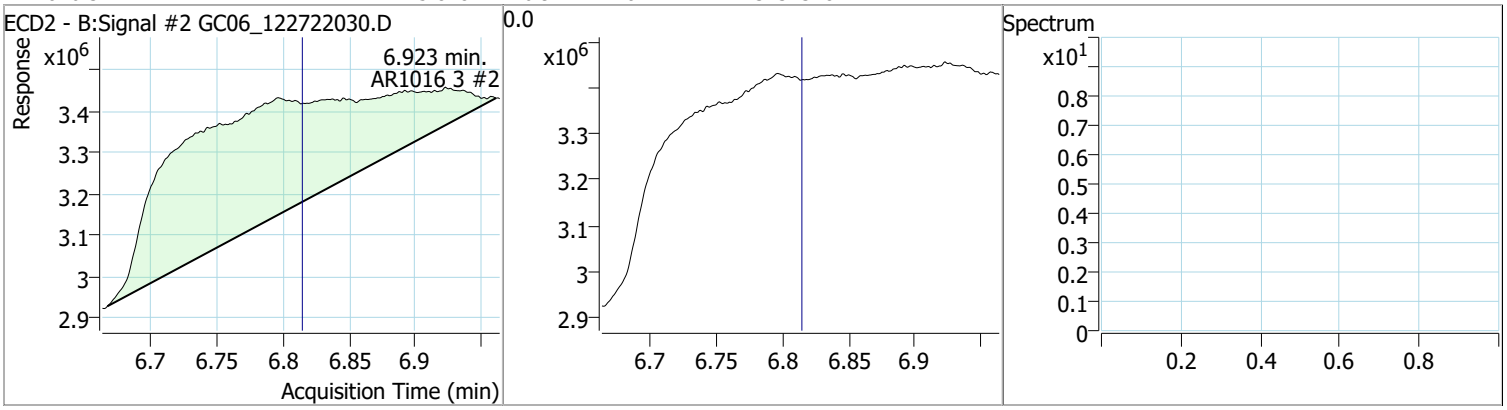
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	41.9183	6.33	0.07	330715				



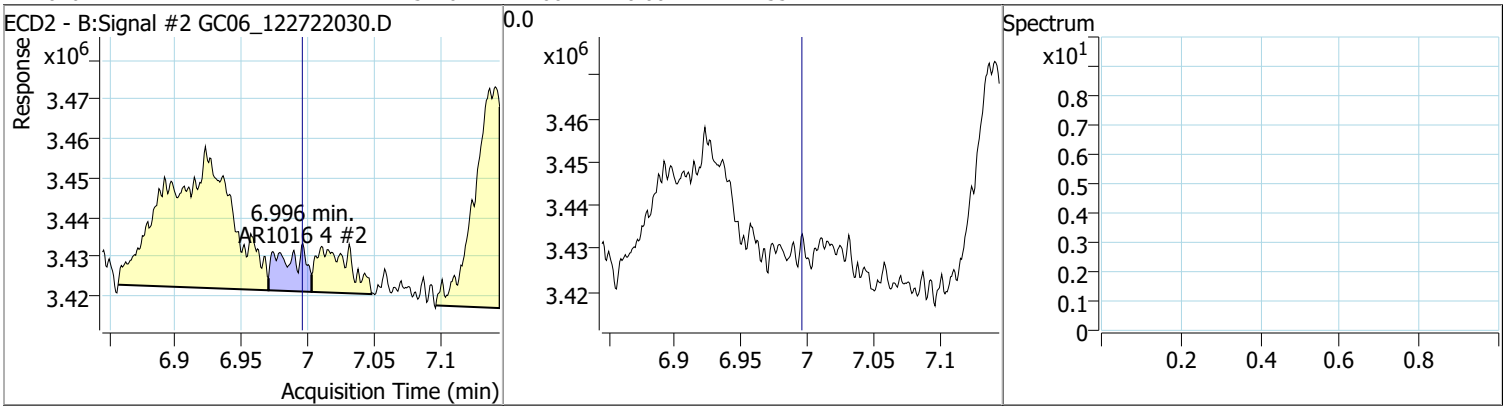
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	3.3381	6.67	0.00	6211				



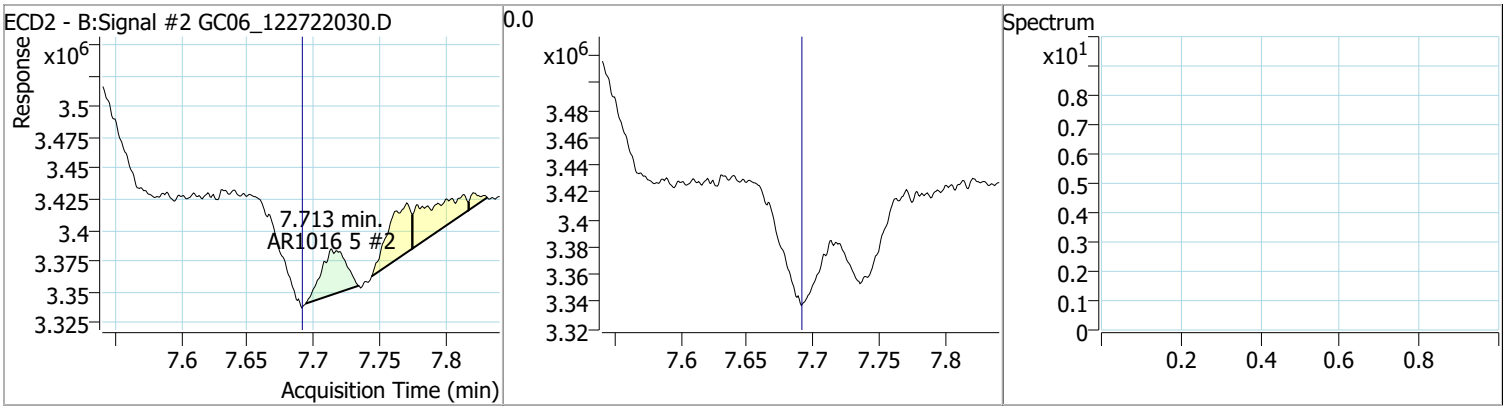
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	225.8282	6.92	0.11	3237318				



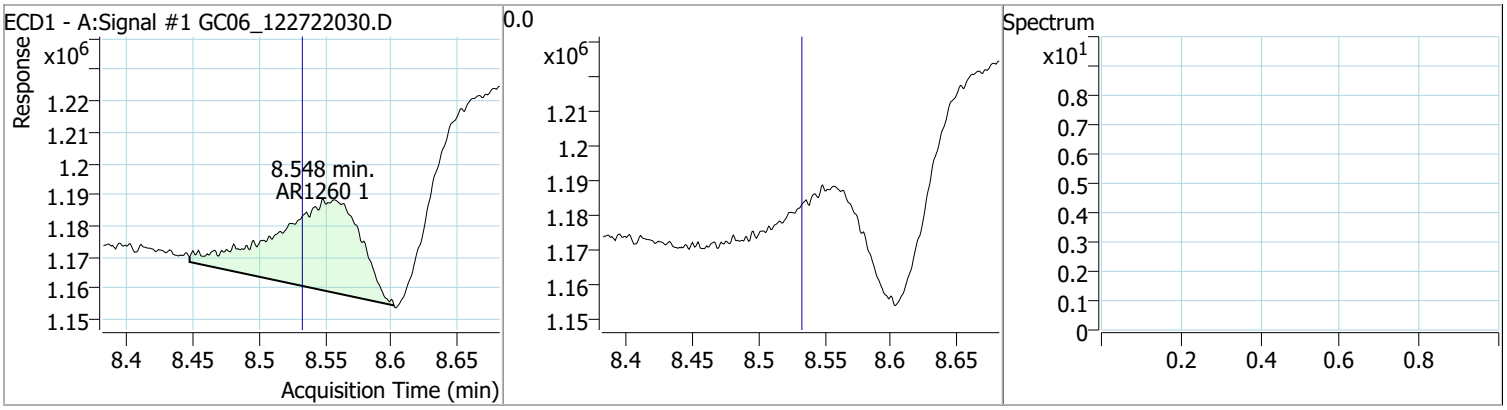
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AR1016 4 #2	1.5216	7.00	0.00	15572				



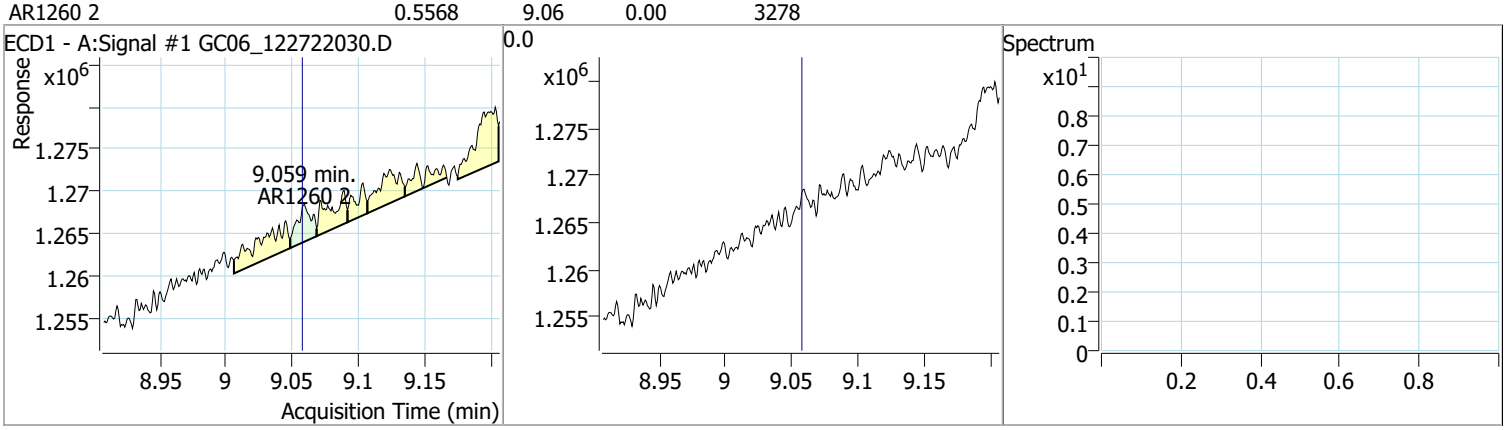
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	5.6271	7.71	0.02	46810				



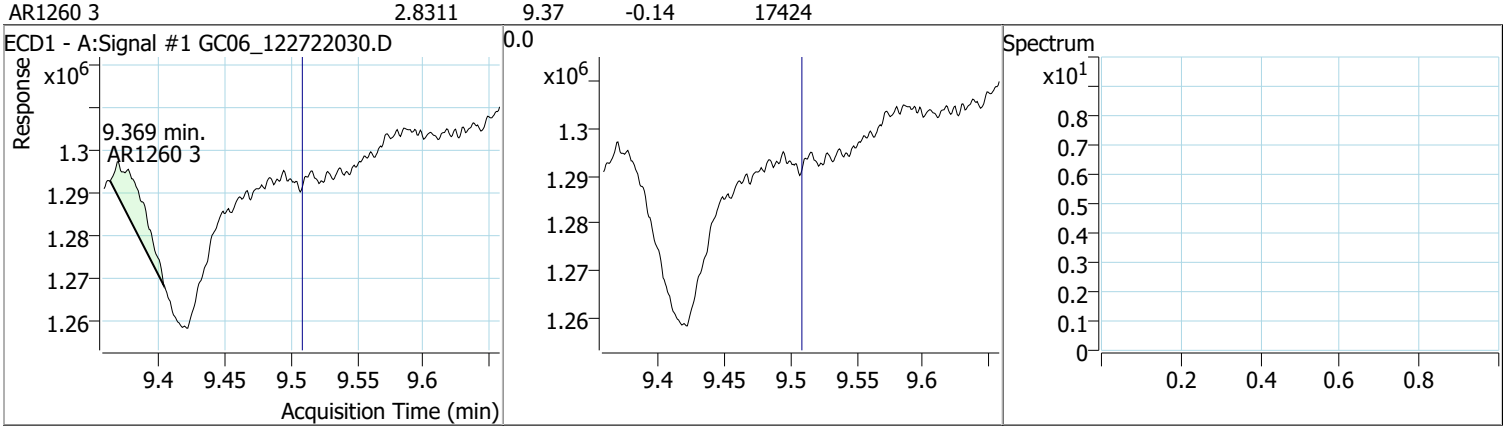
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	34.1648	8.55	0.02	131981				



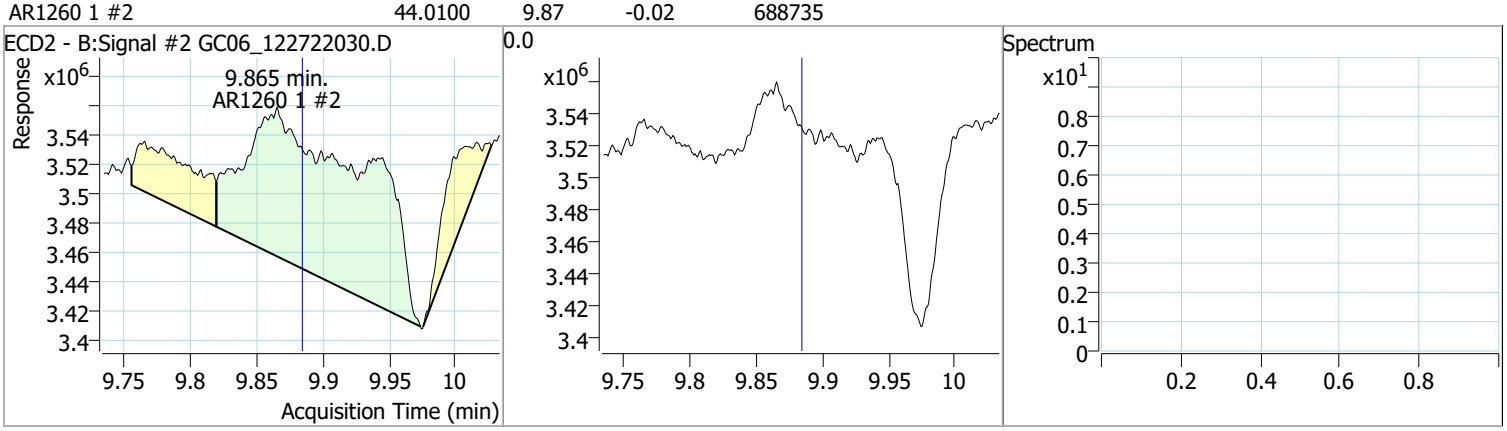
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.5568	9.06	0.00	3278				



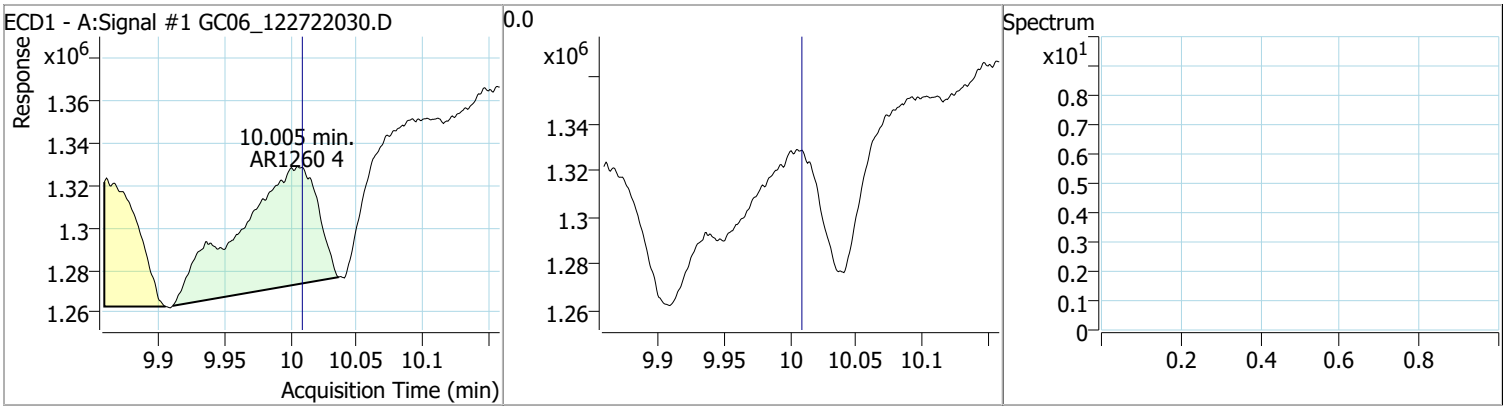
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	2.8311	9.37	-0.14	17424				



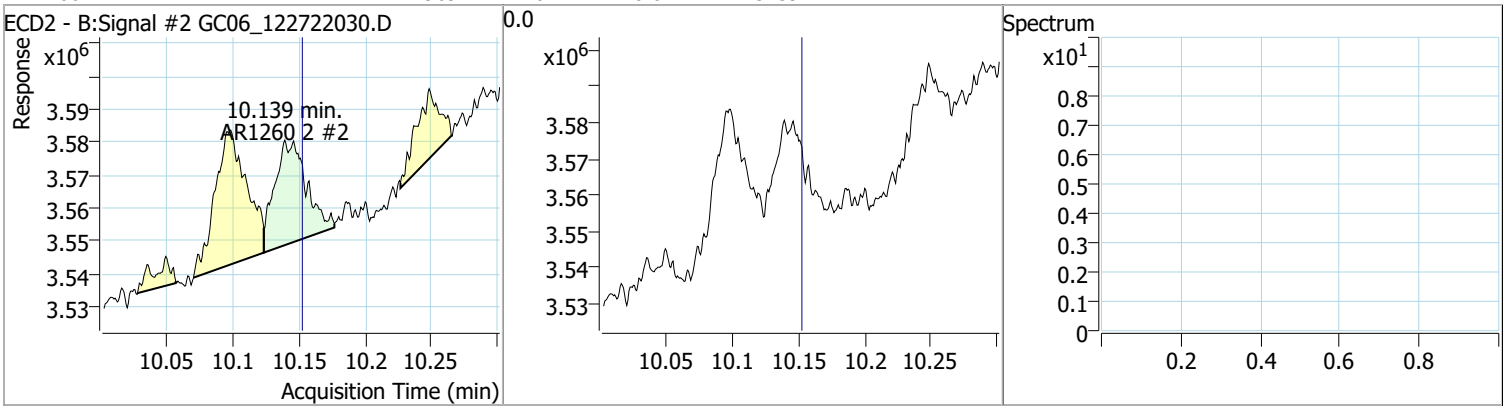
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
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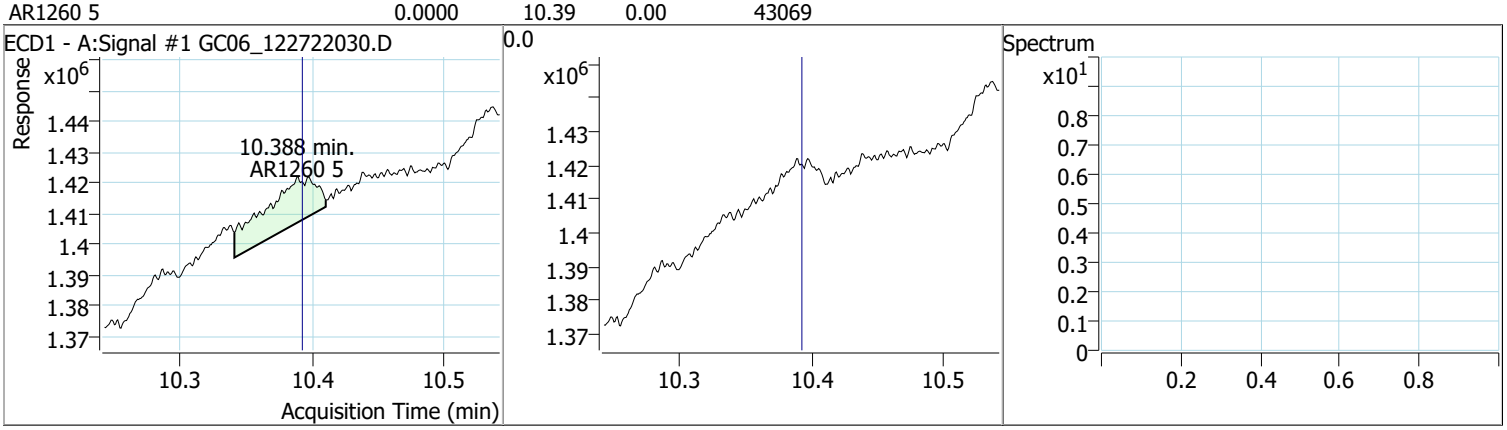
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	57.4842	10.01	0.00	237043				



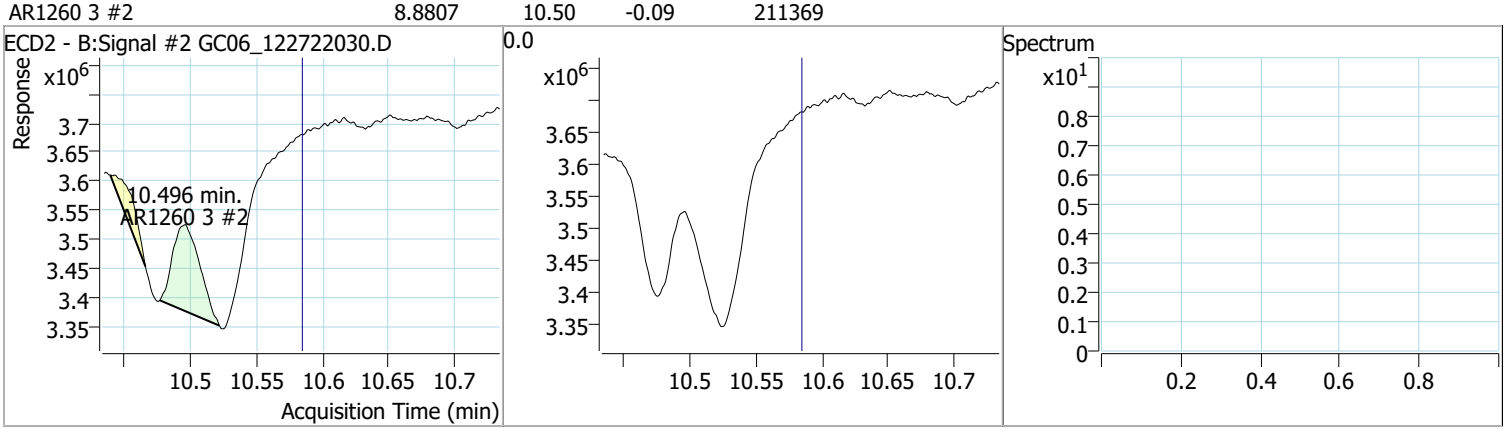
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	2.7969	10.14	-0.01	52591				



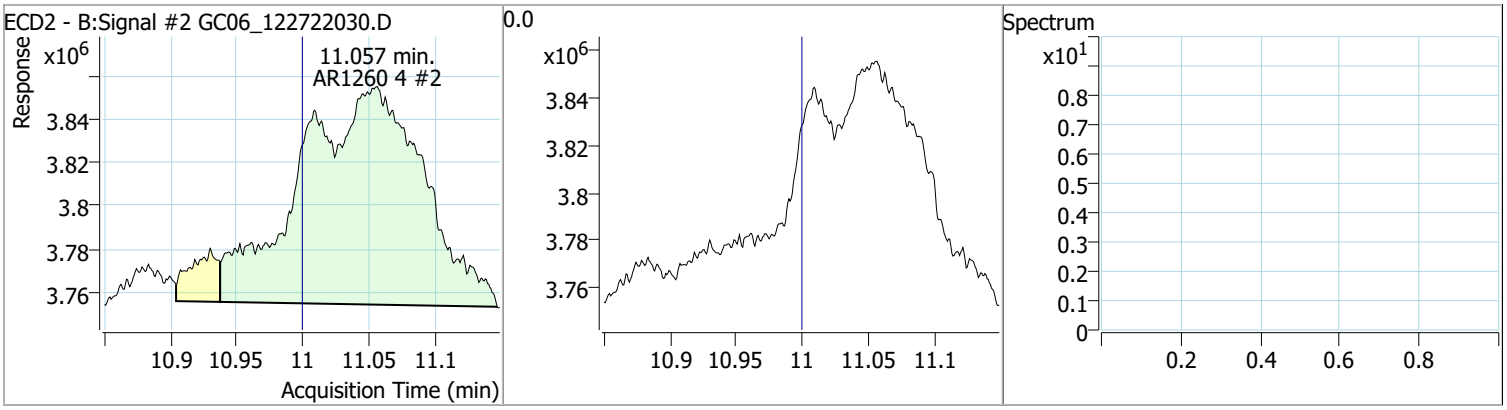
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	0.0000	10.39	0.00	43069				



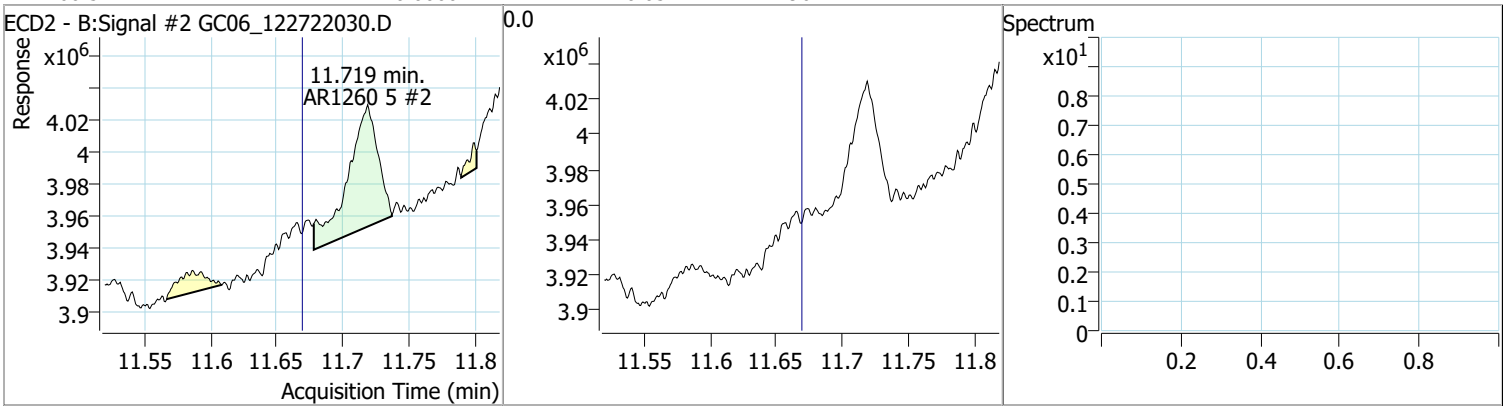
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	8.8807	10.50	-0.09	211369				



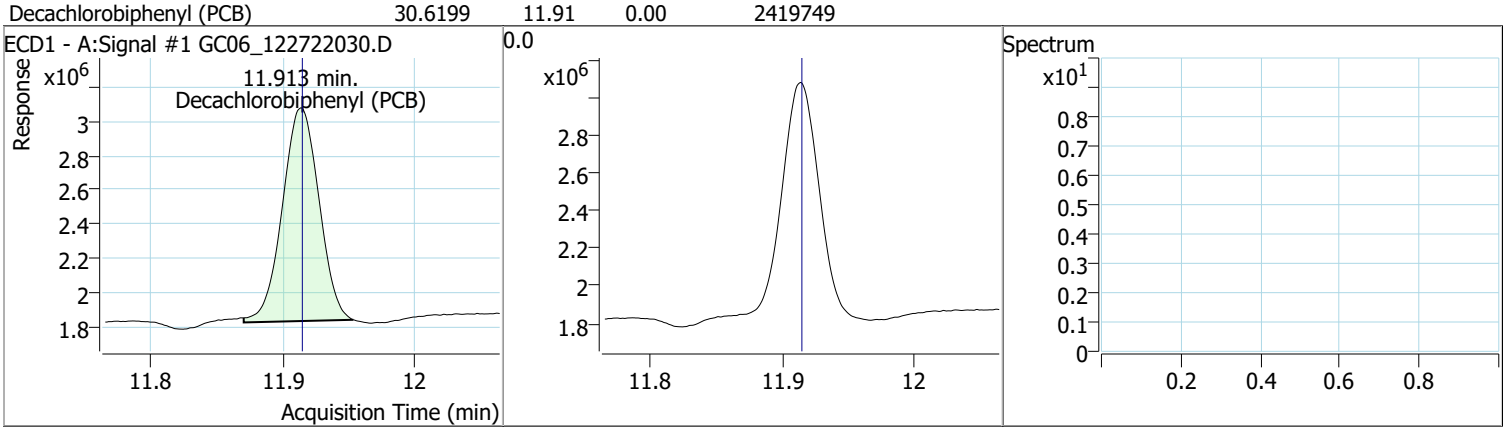
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	26.9704	11.06	0.06	661302				



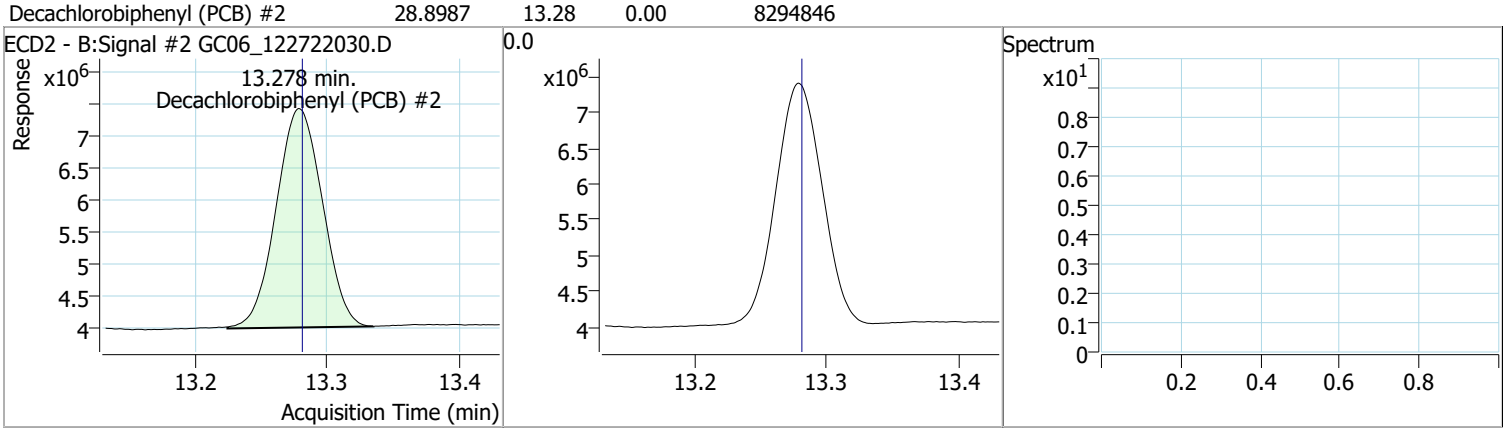
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	0.0000	11.72	0.05	121964				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	30.6199	11.91	0.00	2419749				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	28.8987	13.28	0.00	8294846				



QC Raw Data

ENTHALPY BLANK USER REPORT FOR 475743 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Lab ID:	QC1034026		
Seqnum:	452520427012.5	Matrix:	Wipe		
File:	gc06_122722012	Batch:	303863	Time:	27-DEC-2022 12:41
Cal:	452428510002	Caldate:	24-OCT-2022		
IDF:	1.0	Raw Units:	ug/L	Units:	ug/dm2

- 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Ch	Raw	Result	Conf	RPD	RL	Flags
Aroclor-1016	B	54.18	~~0.54~~ ~~FP~~	0.26	70%	0.50	x u
Aroclor-1221	B		ND			0.50	u
Aroclor-1232	B		ND			0.50	u
Aroclor-1242	B		ND			0.50	u
Aroclor-1248	B		ND			0.50	u
Aroclor-1254	B		ND			0.50	u
Aroclor-1260	B	-0.5055	ND	0.18	212%	0.50	u
Aroclor-1262	B		ND			0.50	u
Aroclor-1268	B		ND			0.50	u

Surrogate	Ch	Raw	Spiked	Result	%Rec	Limits	Flags
TCMX (PCB)	B	36.94	0.5000	0.3694	74	19-121	u
Decachlorobiphenyl (PCB)	B	41.04	0.5000	0.4104	82	19-121	c+ u

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_122722004)	Ch	CCV Abund	BLANK Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6120897	4481737	-26.78
1-bromo-2-nitrobenzene (PCB)	A	1313242	908127	-30.85

NO INTERNAL STANDARD REFERENCE RUN FOUND FOR CCV+CCV/BS+CCV/LCS+ICAL+ICV+ICV/BS+ICV/CCV+ICV/LCS+RCCV+RICV(internal standard: 1BR2NITROBZ1268, 1BR2NITROBZ1262, 1BR2NITROBZ1232, 1BR2NITROBZ1248, 1BR2NITROBZ1242, 1BR2NITROBZ1221, 1BR2NITROBZ1254)

ISTD (CCV gc06_122722004)	Ch	CCV RT	BLANK RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.42	4.42	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

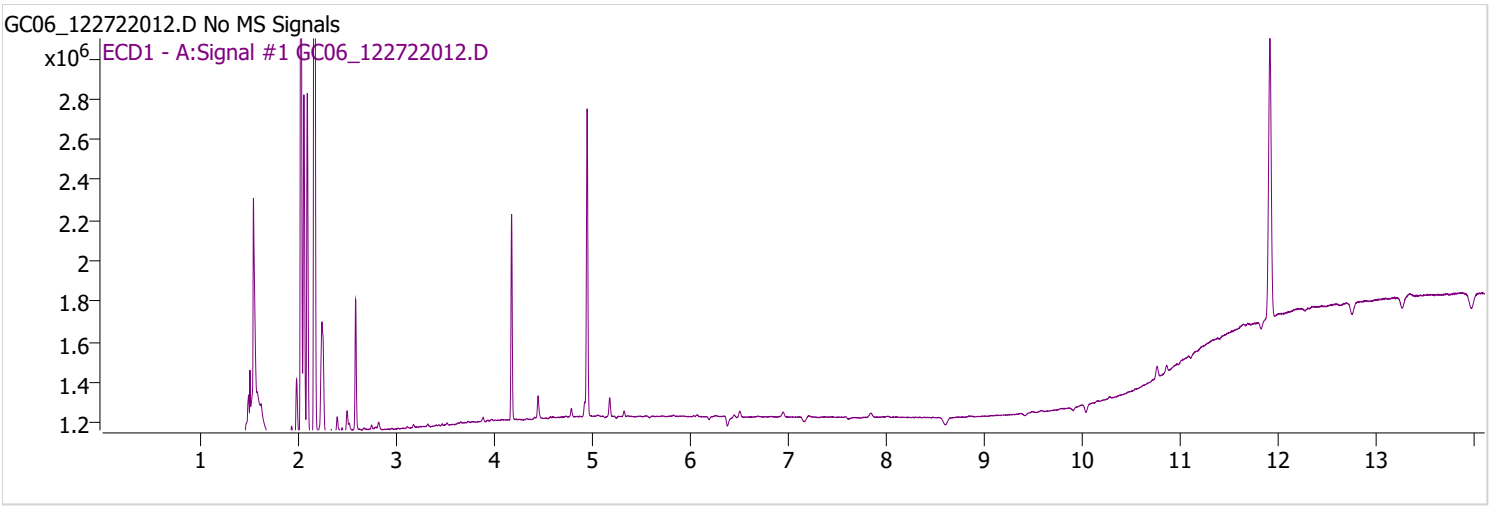
+=high bias c=CCV u=use x=false positive

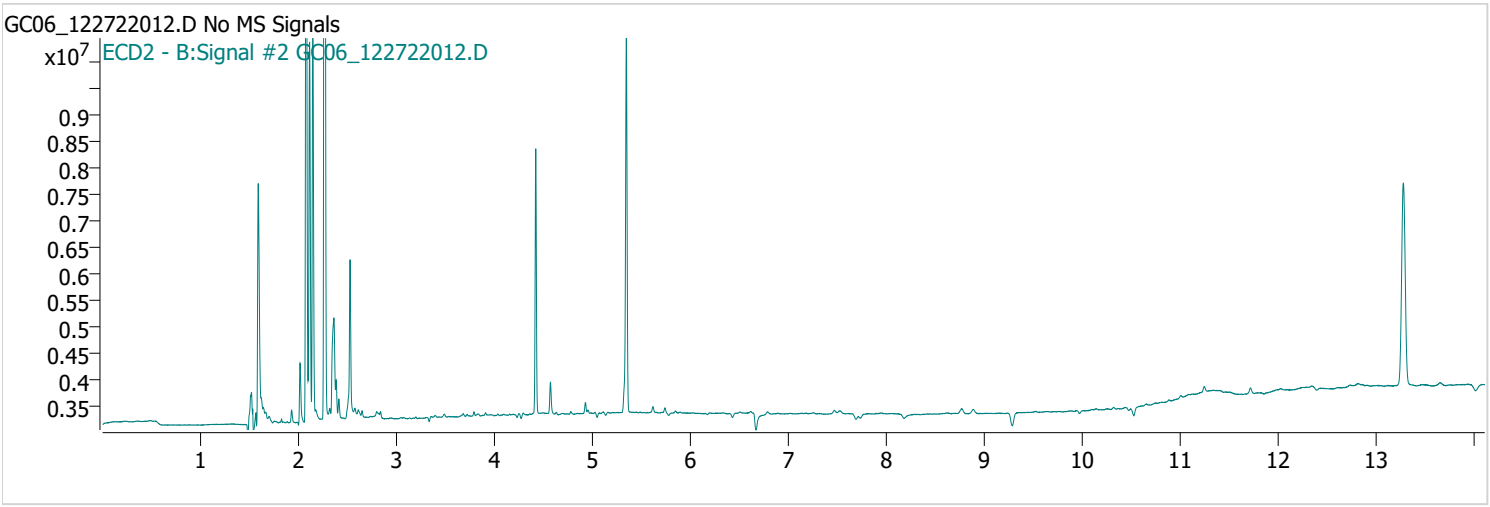
Analyst: MES 12/28/22 *

Reviewer: LW 12/30/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_122722012.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/27/2022 12:41:07 PM
Sample Name	QC1034026, 303863, 1	Instrument	SVOA-GC06
Vial	1	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_14a.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	122722PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



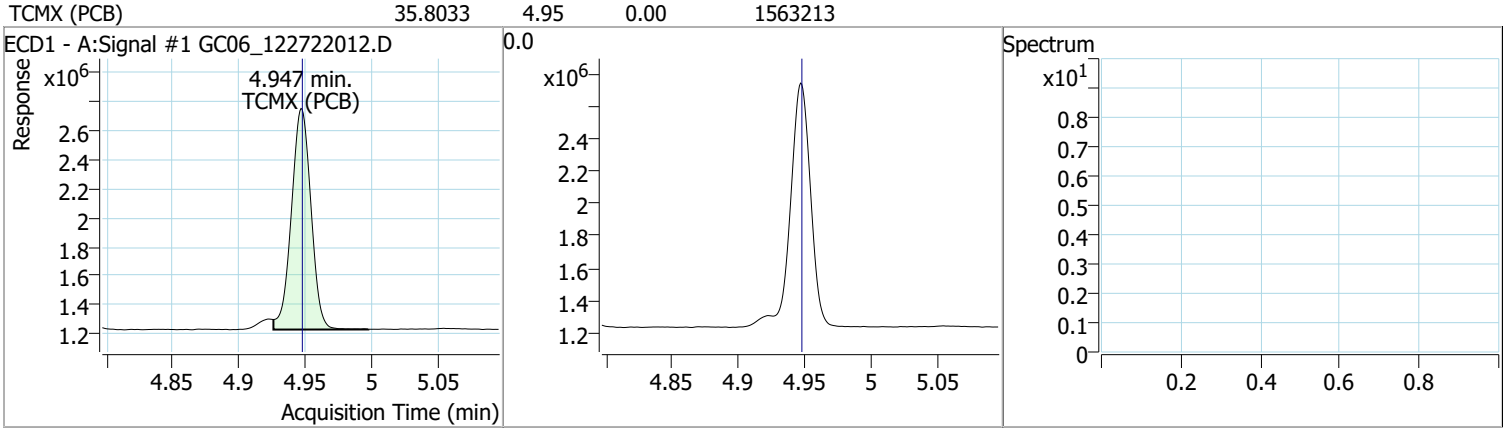


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.176	0.0	908127.156	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.423	0.0	4481736.835	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.947	0.0	1563212.634	35.8033	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 179.02%		*	
S TCMX (PCB) #2	5.348	0.0	7951794.085	36.9450	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 184.73%		*	
S Decachlorobiphenyl (PCB)	11.918	0.0	2768823.726	45.9829	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 229.91%		*	
S Decachlorobiphenyl (PCB) #2	13.282	0.0	9836209.593	41.0359	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 205.18%		*	
Target Compounds							**QValue**
T AR1016 1	5.323	0.0	62093.415	65.2169	ng/ml		100

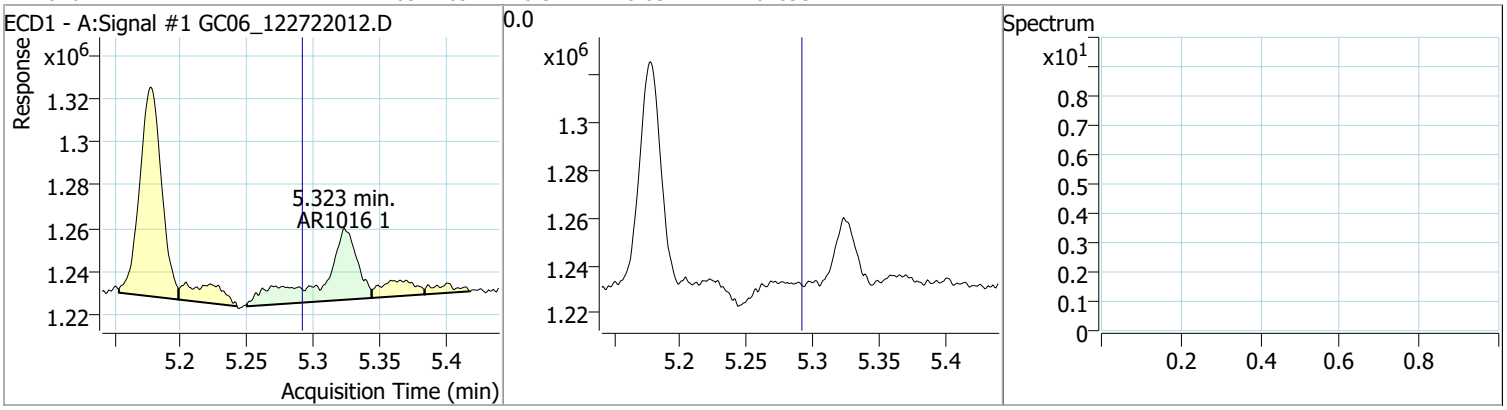
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 2	5.623	0.0	9184.362	0.0000	ng/ml	100
T AR1016 1 #2	5.849	0.0	204100.139	43.8174	ng/ml	100
T AR1016 3	6.071	0.0	55160.544	22.8505	ng/ml	100
T AR1016 4	6.263	0.0	89585.556	48.7945	ng/ml	100
T AR1016 2 #2	6.198	0.0	221271.053	32.9077	ng/ml	100
T AR1016 5	6.668	0.0	6630.594	4.4838	ng/ml	100
T AR1016 3 #2	6.790	0.0	2280059.107	186.6218	ng/ml	100
T AR1016 4 #2	6.984	0.0	1693.407	0.1941	ng/ml	100
T AR1016 5 #2	7.715	0.0	52336.963	7.3820	ng/ml	100
T AR1260 1	8.478	0.0	148906.962	48.4976	ng/ml	100
T AR1260 2	9.059	0.0	1617.528	0.3456	ng/ml	100
T AR1260 3	9.501	0.0	50827.441	10.3911	ng/ml	100
T AR1260 1 #2	9.891	0.0	164405.996	12.3265	ng/ml	100
T AR1260 4	10.000	0.0	157710.624	45.6041	ng/ml	100
T AR1260 2 #2	10.144	0.0	64796.627	4.0434	ng/ml	100
T AR1260 5	10.279	0.0	11502.372	0.0000	ng/ml	100
T AR1260 3 #2	10.499	0.0	126548.298	6.2386	ng/ml	100
T AR1260 4 #2	11.008	0.0	67926.140	0.0000	ng/ml	100
T AR1260 5 #2	11.722	0.0	186794.650	0.0000	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

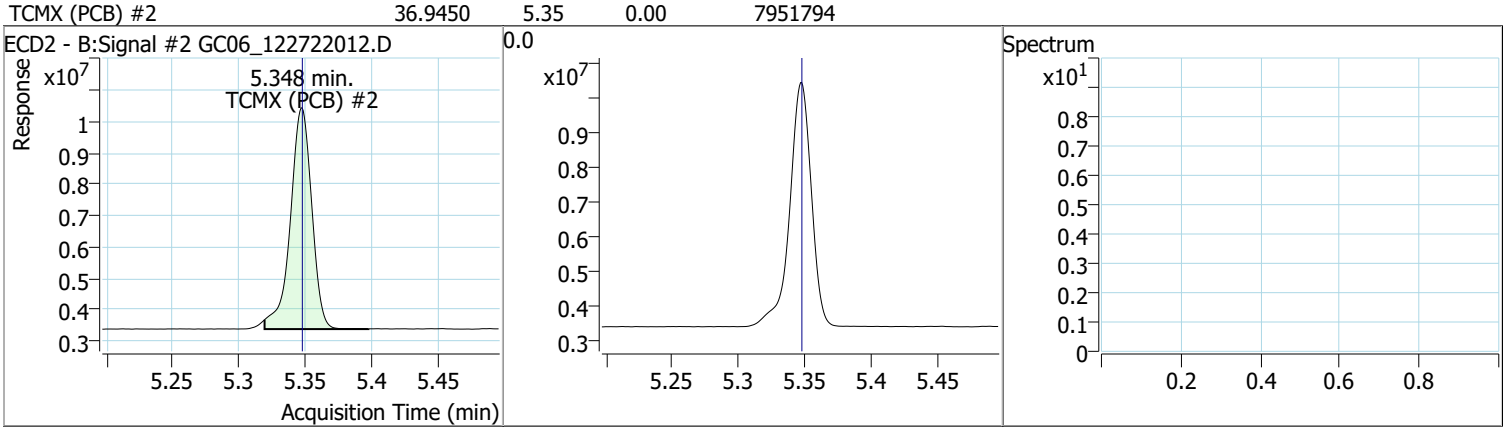
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	35.8033	4.95	0.00	1563213				



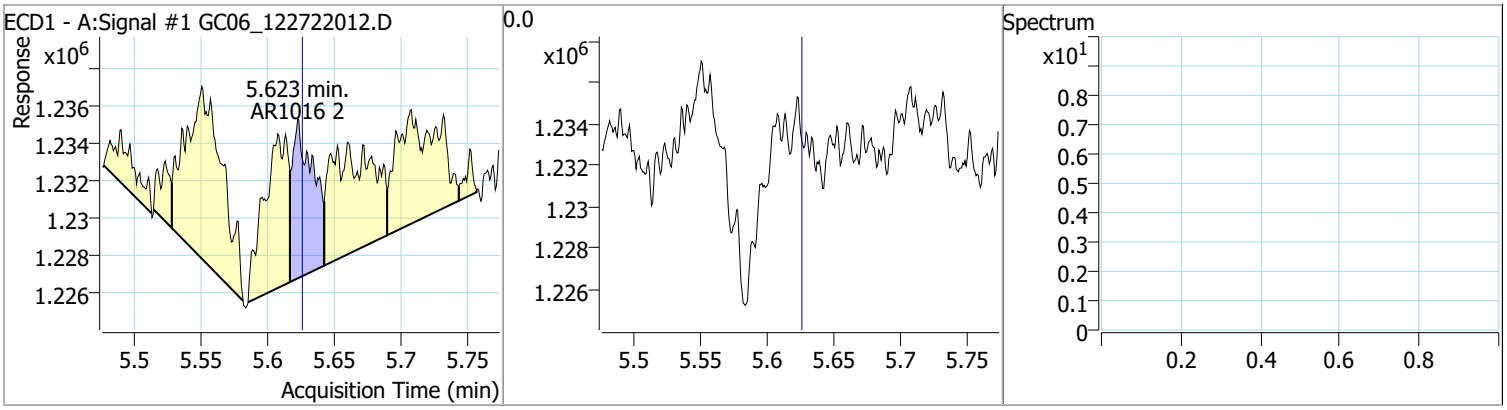
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	65.2169	5.32	0.03	62093				



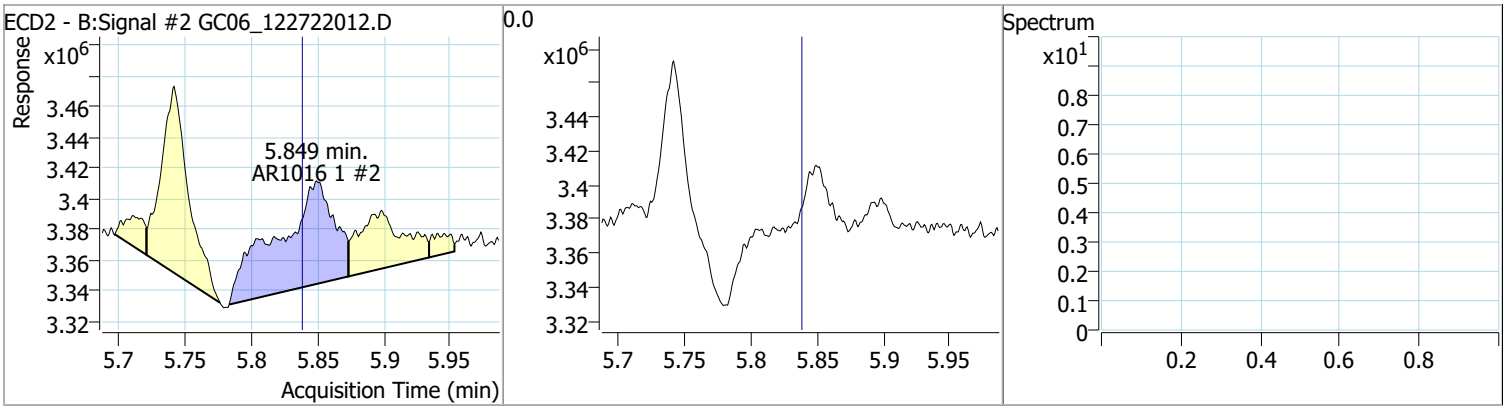
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	36.9450	5.35	0.00	7951794				



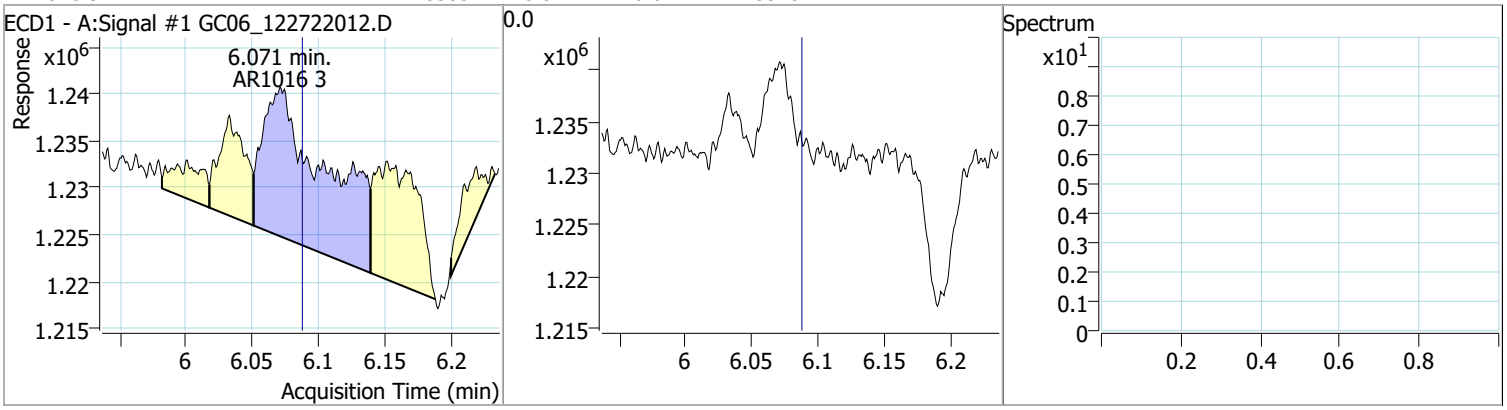
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	0.0000	5.62	0.00	9184				



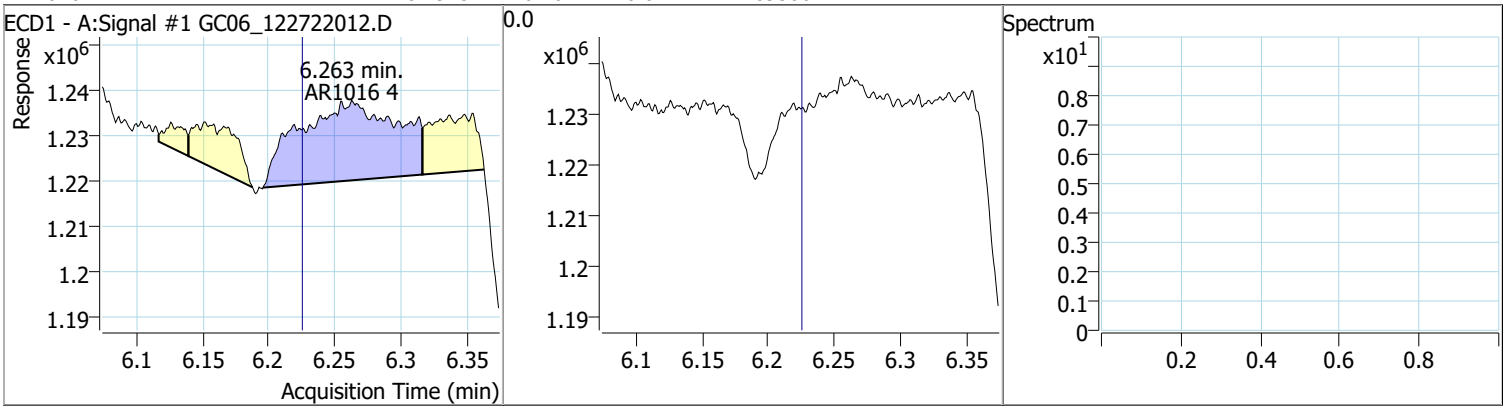
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	43.8174	5.85	0.01	204100				



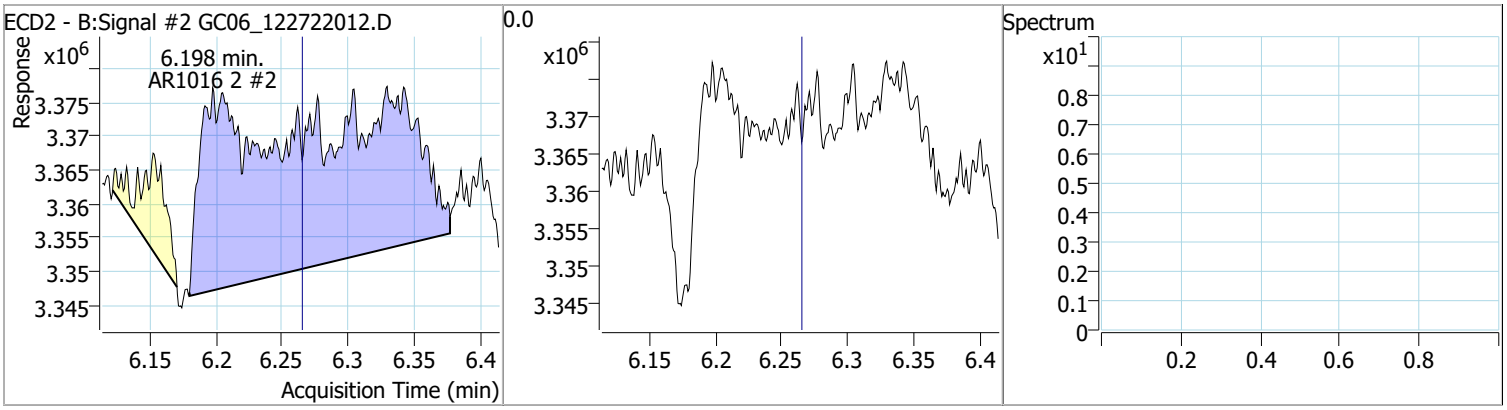
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	22.8505	6.07	-0.02	55161				



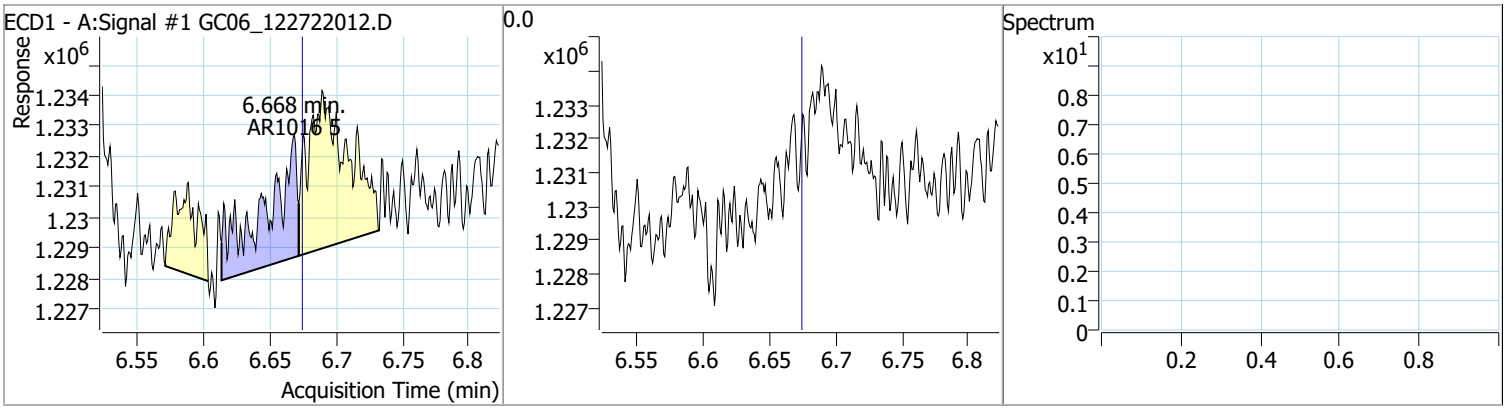
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	48.7945	6.26	0.04	89586				



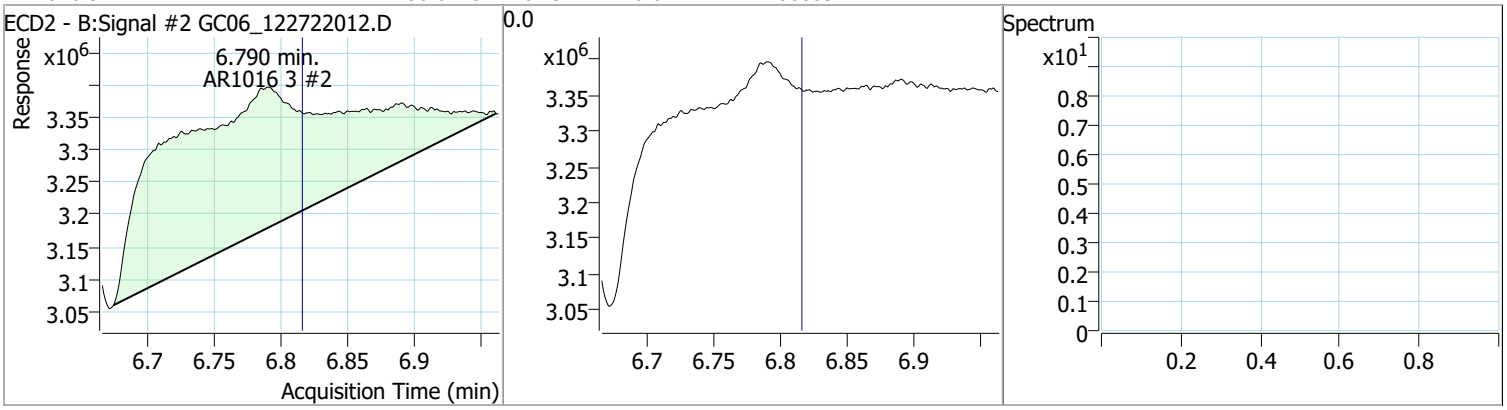
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	32.9077	6.20	-0.07	221271				



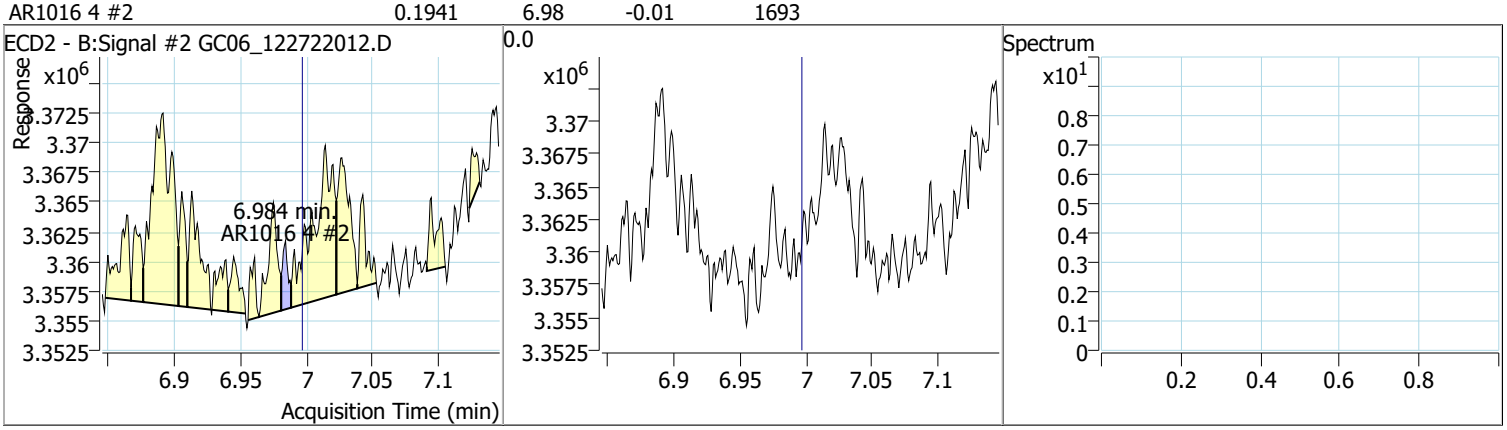
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	4.4838	6.67	0.00	6631				



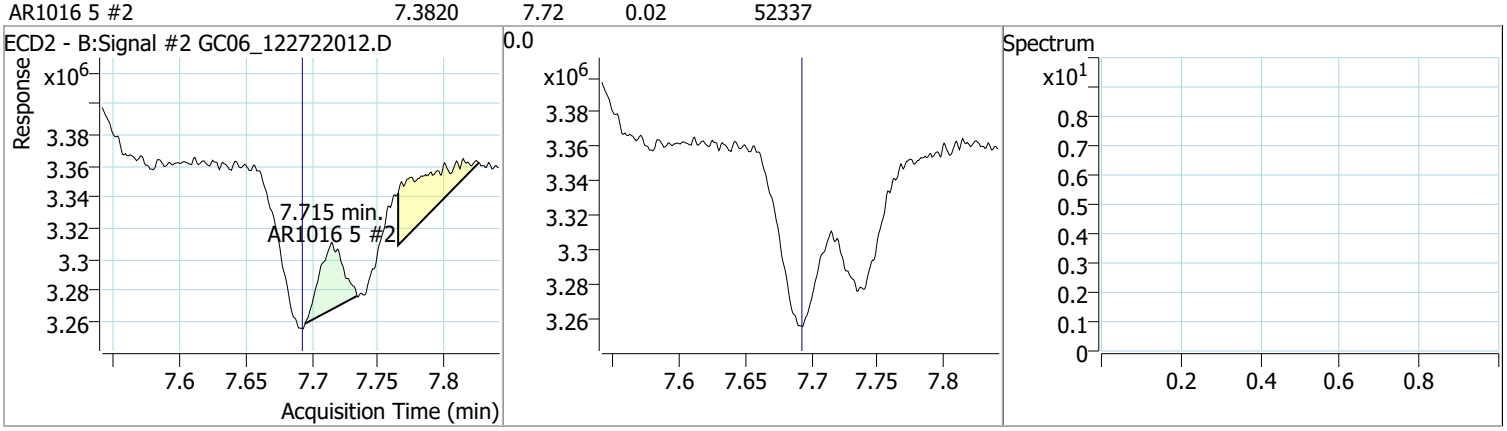
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	186.6218	6.79	-0.02	2280059				



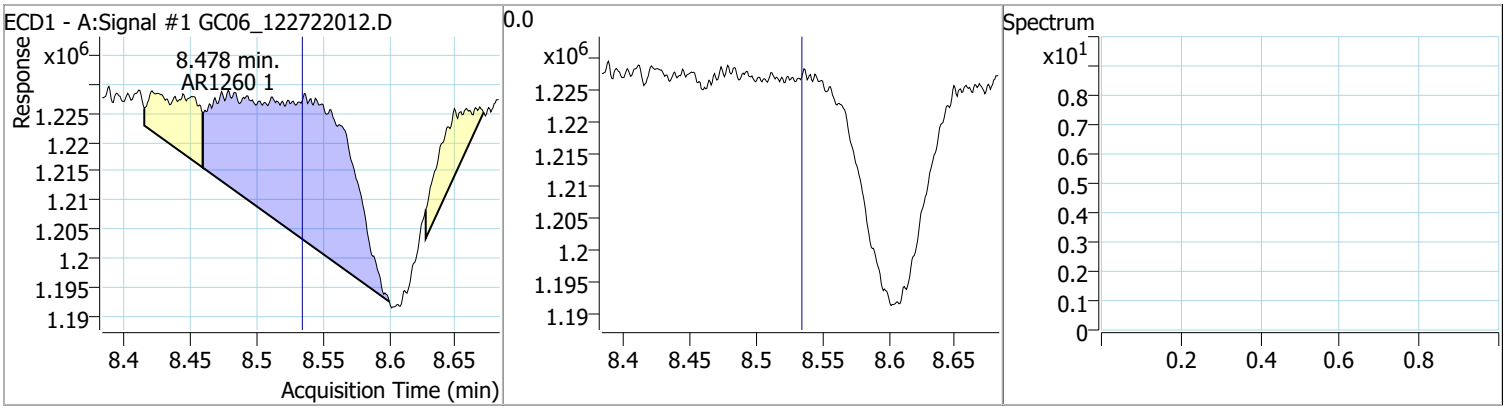
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	0.1941	6.98	-0.01	1693				



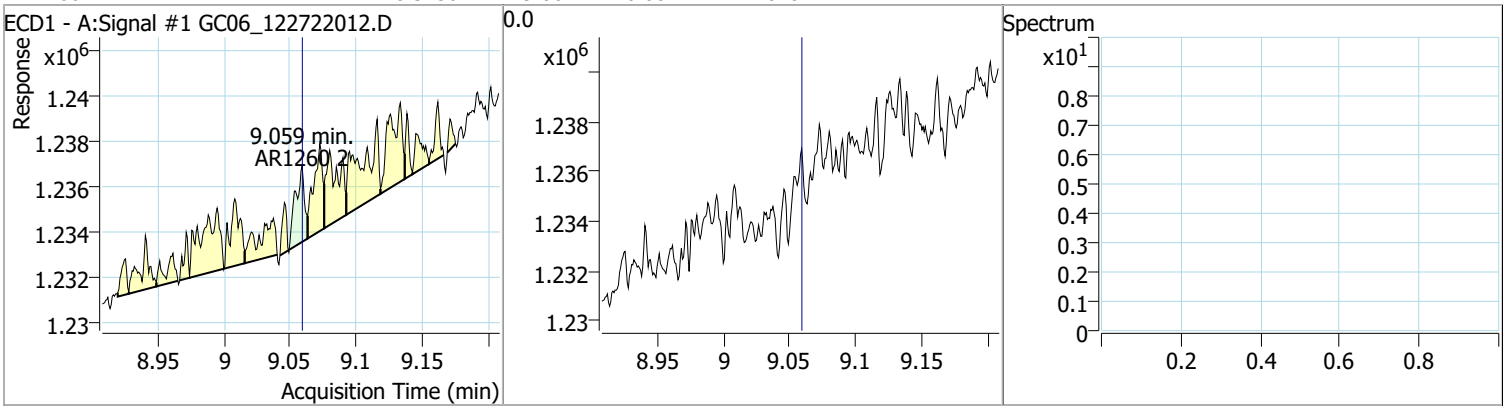
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	7.3820	7.72	0.02	52337				



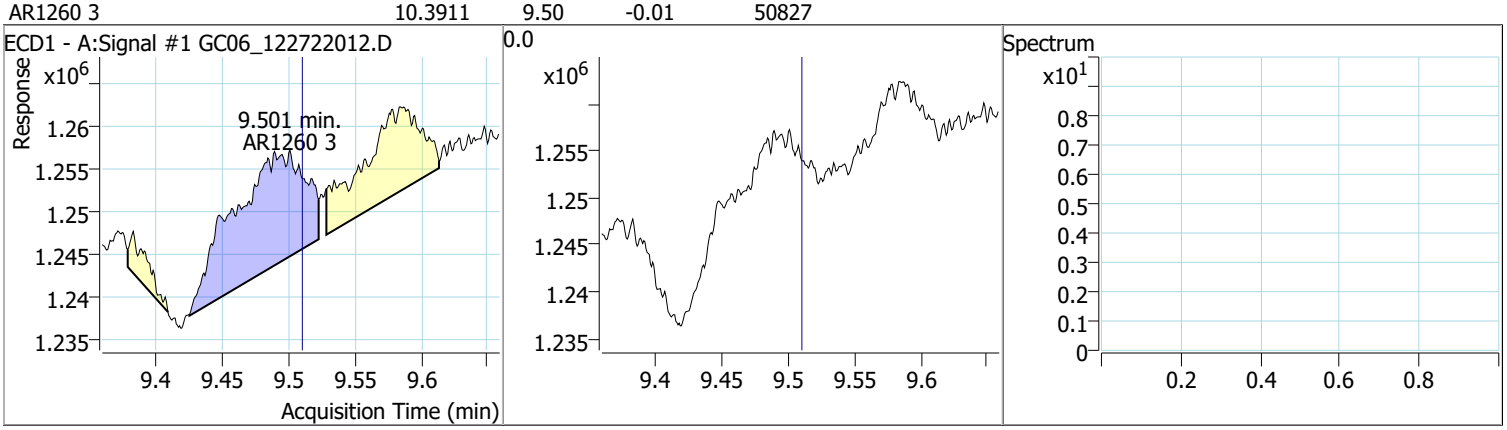
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	48.4976	8.48	-0.05	148907				



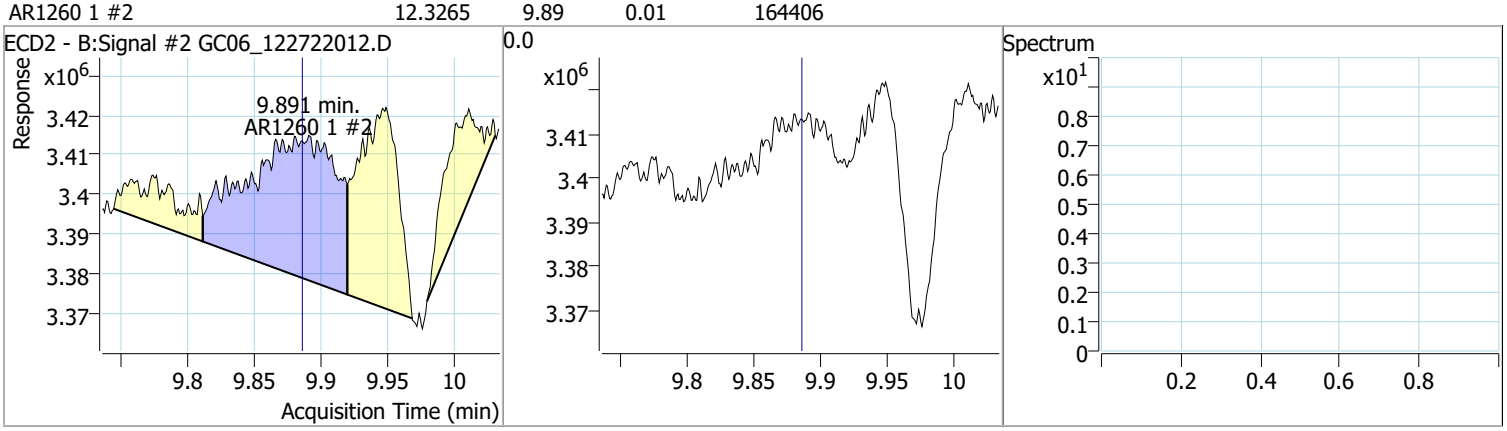
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	0.3456	9.06	0.00	1618				



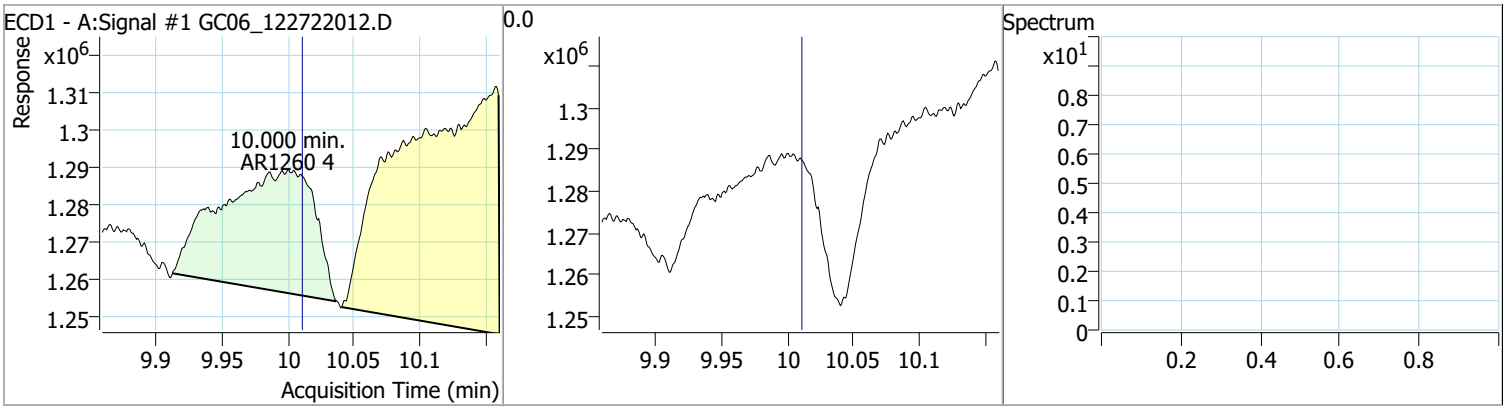
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	10.3911	9.50	-0.01	50827				



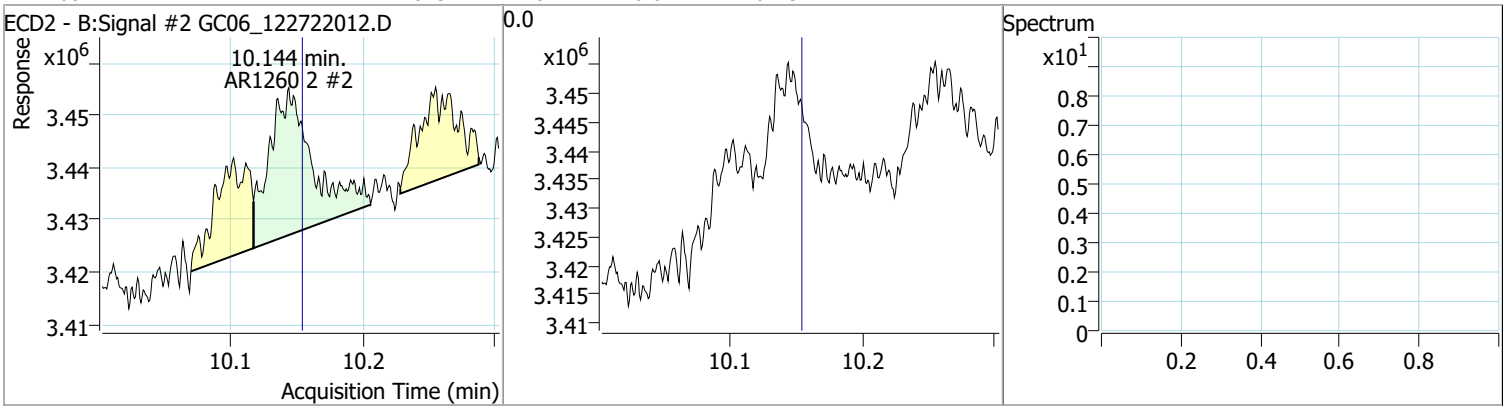
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	12.3265	9.89	0.01	164406				



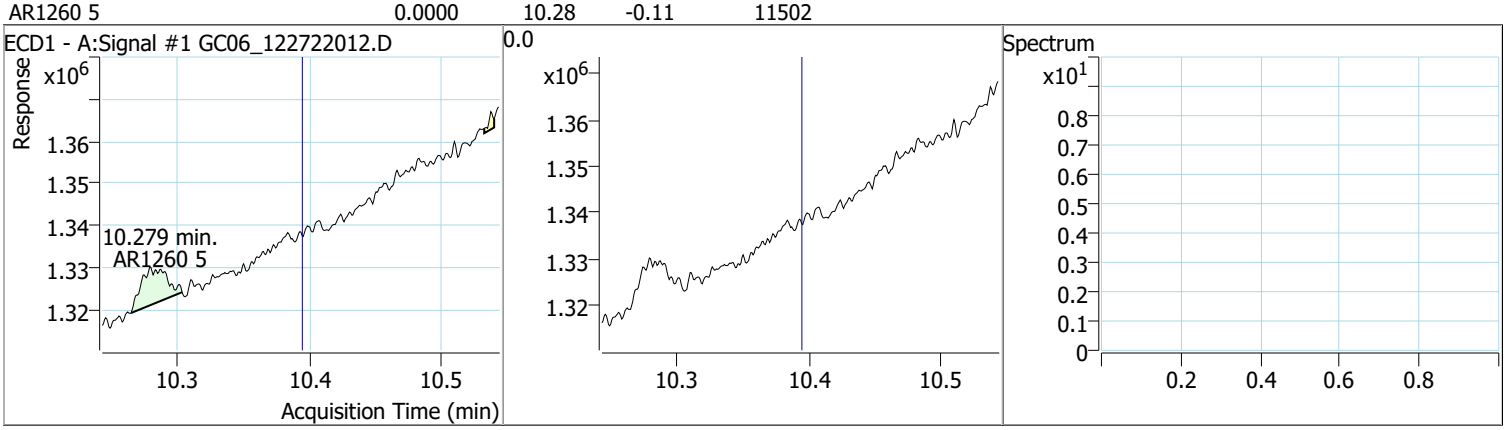
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	45.6041	10.00	-0.01	157711				



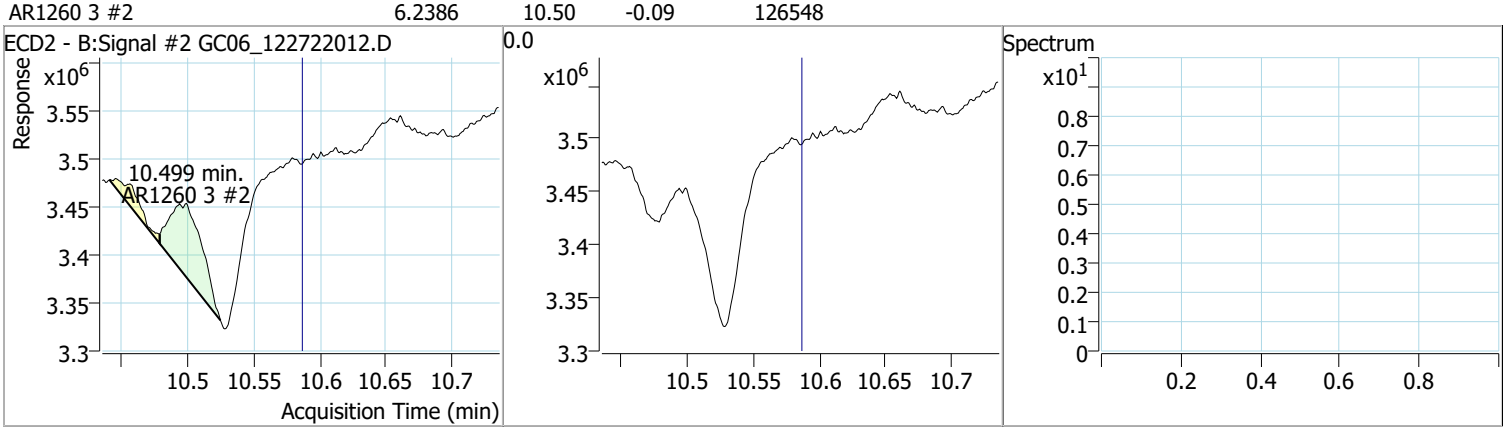
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	4.0434	10.14	-0.01	64797				



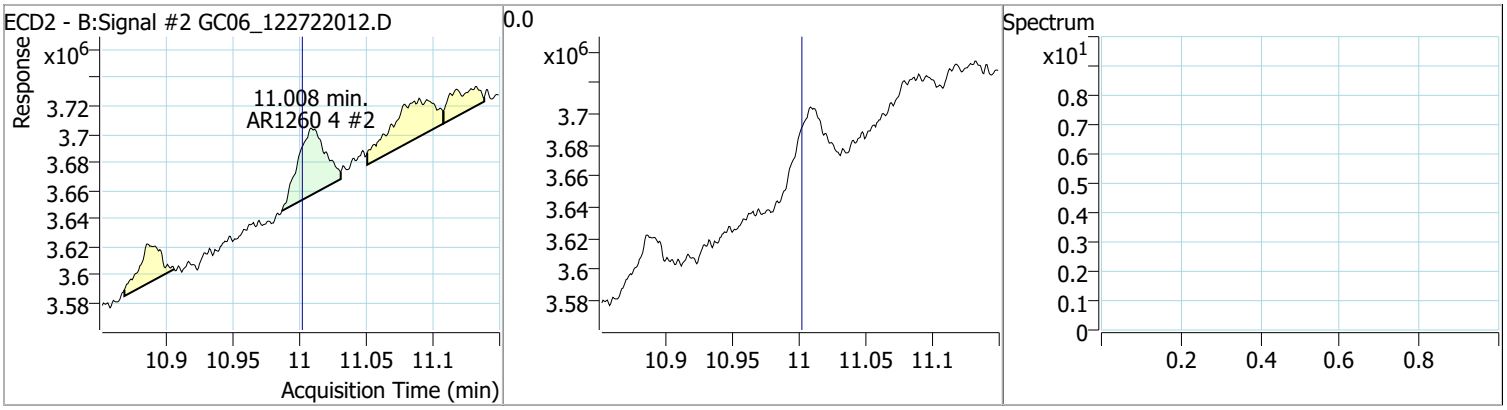
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	0.0000	10.28	-0.11	11502				



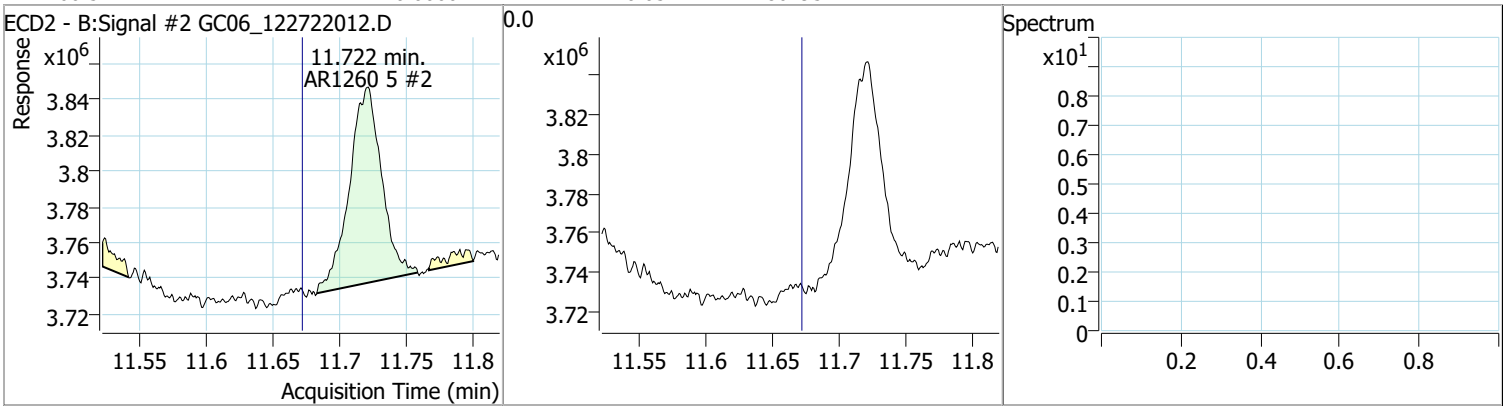
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	6.2386	10.50	-0.09	126548				



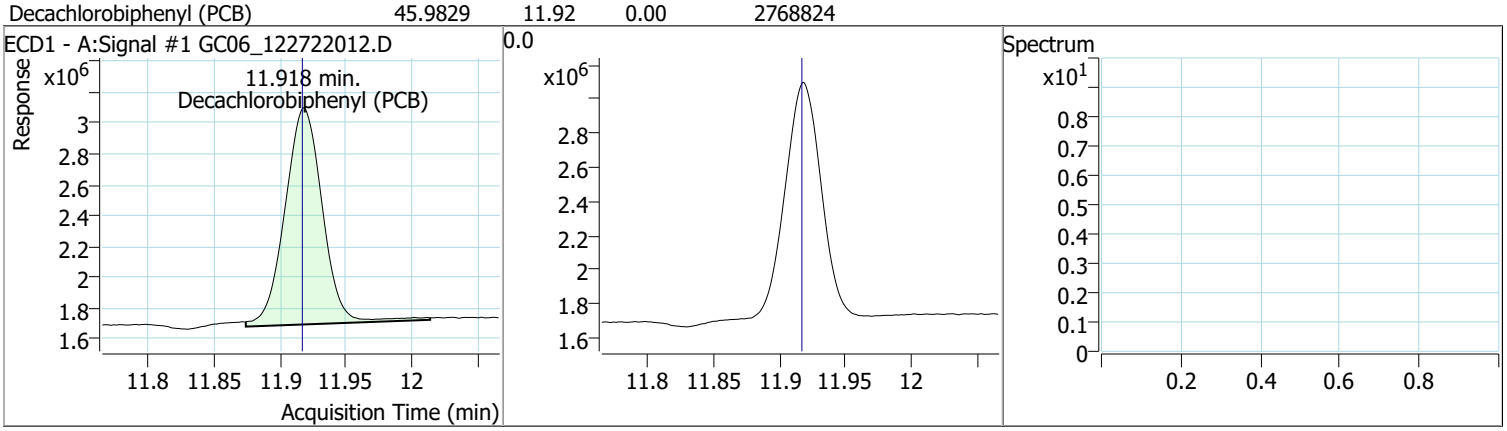
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	0.0000	11.01	0.01	67926				



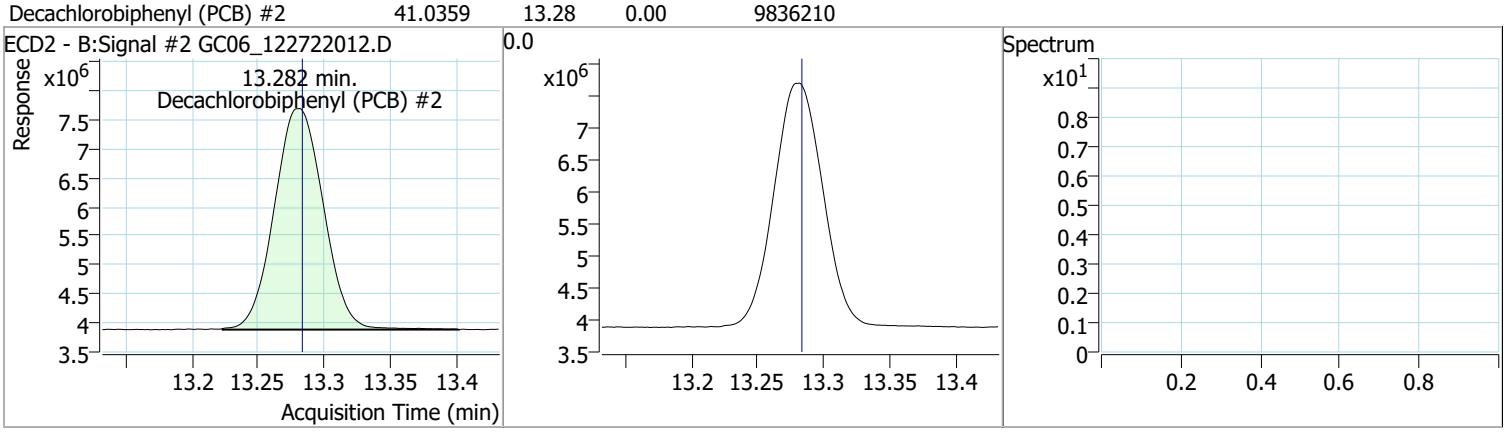
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	0.0000	11.72	0.05	186795				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	45.9829	11.92	0.00	2768824				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	41.0359	13.28	0.00	9836210				



ENTHALPY SPIKE USER REPORT FOR 475743 PCBS Wipe

EPA 8082

Type:	BS	Type:	BSD
Inst:	SVOA-GC06	Inst:	SVOA-GC06
Seqnum:	452520427013.5	Seqnum:	452520427014.5
File:	gc06_122722013	File:	gc06_122722014
IDF:	1.0	IDF:	1.0
Lab ID:	QC1034027	Lab ID:	QC1034028
Matrix:	Wipe	Matrix:	Wipe
Batch:	303863	Batch:	303863
Time:	27-DEC-2022 12:59	Time:	27-DEC-2022 13:17
Cal:	452428510002	Cal:	452428510002
Units:	ug/dm2		

- BS: 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF
- BSD: 1.00 dm2 ⇨ 10.0 ml = 10.0 ml/dm2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Aroclor-1016	5.000	450.2	4.502	B	90	519.8	5.198	B	104	60-140	14	20	u
Aroclor-1016 Peak # 1		415.4	4.154	B		475.0	4.750	B					
Aroclor-1016 Peak # 2		619.2	6.192	B		705.0	7.050	B					
Aroclor-1016 Peak # 3		408.1	4.081	B		480.1	4.801	B					
Aroclor-1016 Peak # 4		428.3	4.283	B		480.4	4.804	B					
Aroclor-1016 Peak # 5		380.0	3.800	B		458.4	4.584	B					
Aroclor-1260	5.000	419.9	4.199	B	84	489.5	4.895	B	98	60-140	15	20	u
Aroclor-1260 Peak # 1		428.5	4.285	B		539.3	5.393	B					
Aroclor-1260 Peak # 2		422.8	4.228	B		480.0	4.800	B					
Aroclor-1260 Peak # 3		420.7	4.207	B		479.7	4.797	B					
Aroclor-1260 Peak # 4		424.1	4.241	B		471.7	4.717	B					
Aroclor-1260 Peak # 5		403.4	4.034	B		476.6	4.766	B					
Surrogates													
TCMX (PCB)	0.5000	41.25	0.4125	B	82	47.88	0.4788	B	96	19-121			u
Decachlorobiphenyl (PCB)	0.5000	37.82	0.3782	B	76	46.86	0.4686	B	94	19-121			c+ u

ISTD (CCV gc06_122722004)	Ch	CCV Abund	BS Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6120897	5264933	-13.98
1-bromo-2-nitrobenzene (PCB)	A	1313242	1069699	-18.55

ISTD (CCV gc06_122722004)	Ch	CCV RT	BS RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.42	4.42	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

ISTD (CCV gc06_122722004)	Ch	CCV Abund	BSD Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	6120897	5397375	-11.82
1-bromo-2-nitrobenzene (PCB)	A	1313242	1120827	-14.65

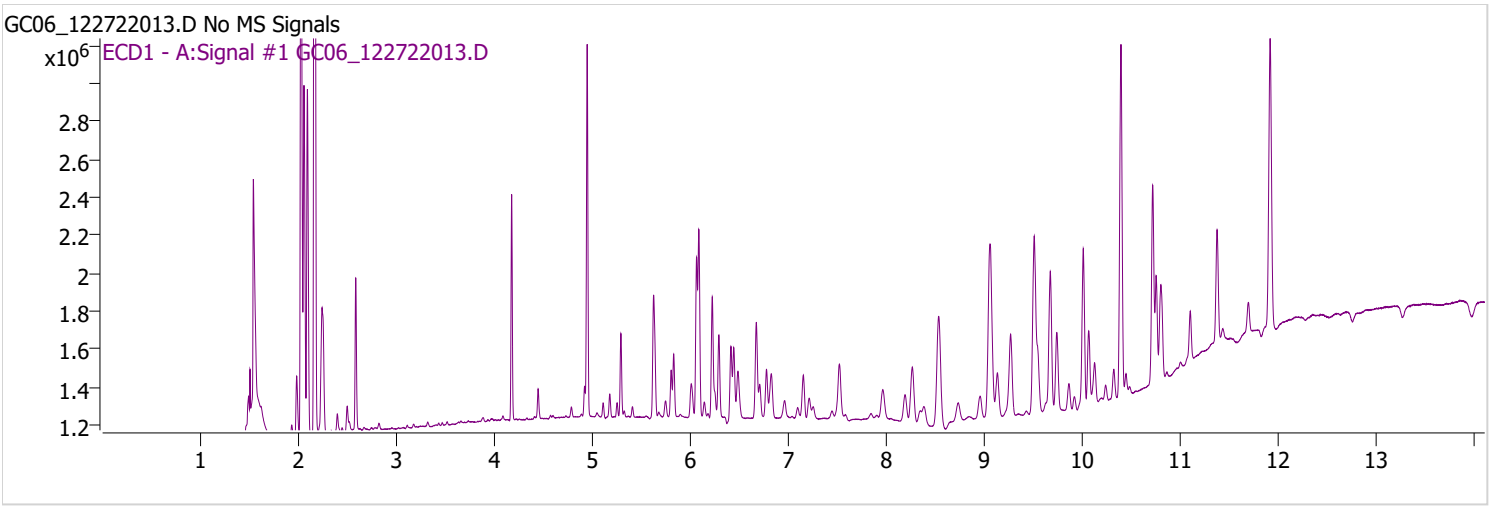
ISTD (CCV gc06_122722004)	Ch	CCV RT	BSD RT	Drift
1-bromo-2-nitrobenzene (PCB)	B	4.42	4.42	0.00
1-bromo-2-nitrobenzene (PCB)	A	4.18	4.18	0.00

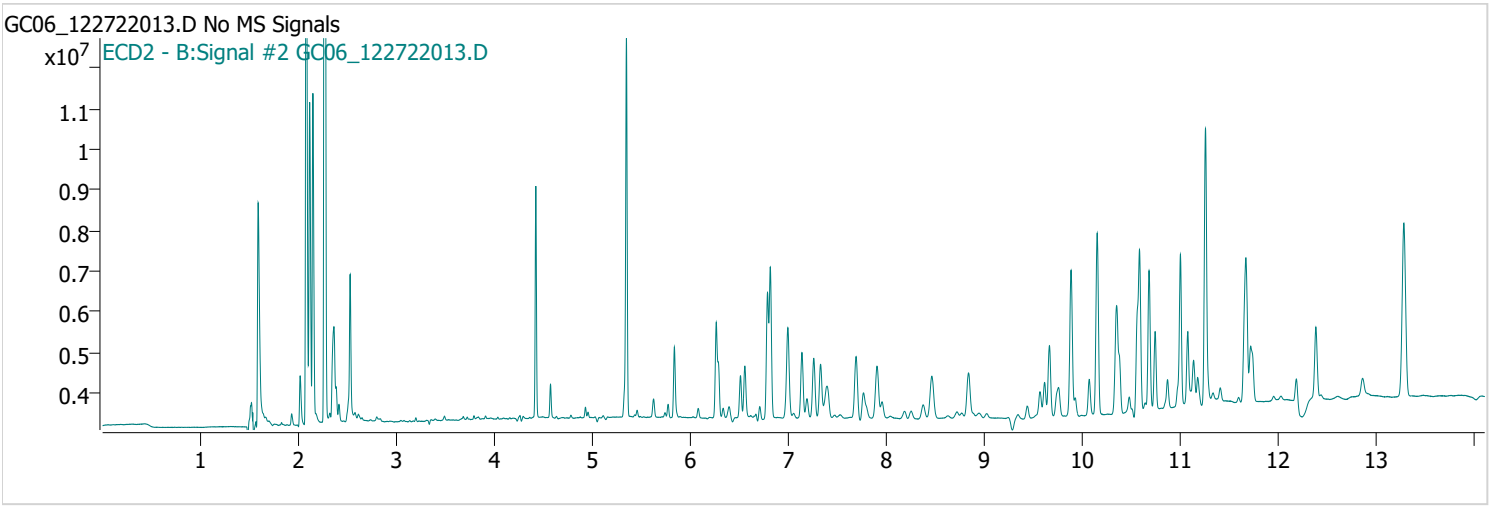
Analyst: MES 12/28/22 *

Reviewer: LW 12/30/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_122722013.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/27/2022 12:59:32 PM
Sample Name	QC1034027, 303863, 1	Instrument	SVOA-GC06
Vial	2	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_14a.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	122722PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



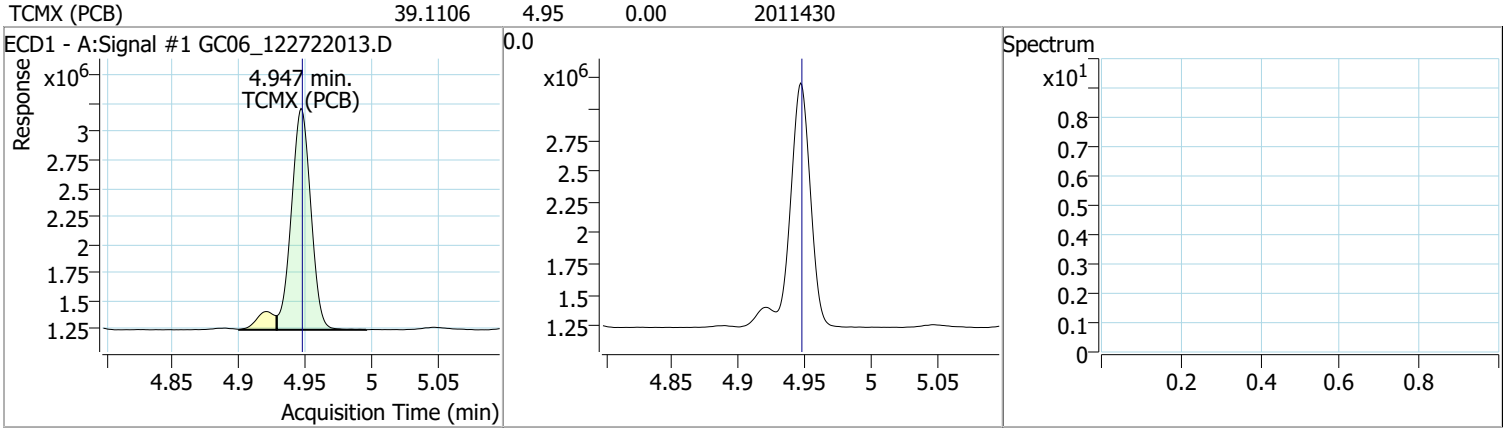


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.176	0.0	1069699.431	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.423	0.0	5264932.981	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.947	0.0	2011429.698	39.1106	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 195.55%		*	
S TCMX (PCB) #2	5.348	0.0	10429483.507	41.2484	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 206.24%		*	
S Decachlorobiphenyl (PCB)	11.918	0.0	2953315.874	41.2302	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 206.15%		*	
S Decachlorobiphenyl (PCB) #2	13.283	0.0	10693100.645	37.8170	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 189.08%		*	
Target Compounds							QValue

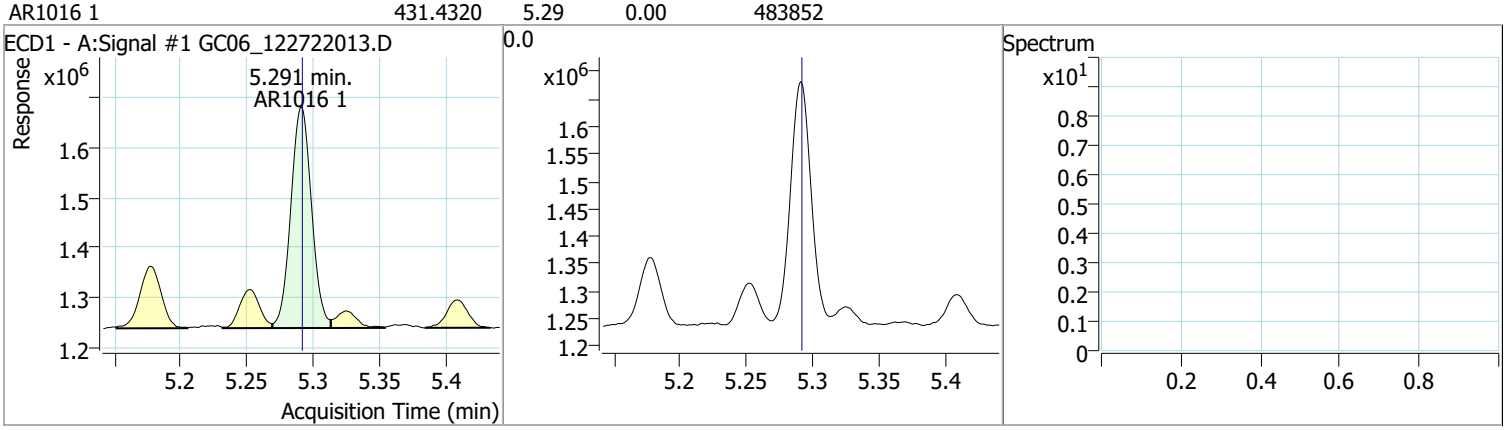
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.291	0.0	483852.267	431.4320	ng/ml	100
T AR1016 2	5.625	0.0	1064335.121	461.9041	ng/ml	100
T AR1016 1 #2	5.837	0.0	2273077.076	415.4046	ng/ml	100
T AR1016 3	6.086	0.0	1305734.982	459.2056	ng/ml	100
T AR1016 4	6.223	0.0	1056201.865	488.3878	ng/ml	100
T AR1016 2 #2	6.264	0.0	4891327.852	619.2320	ng/ml	100
T AR1016 5	6.673	0.0	794869.060	456.3221	ng/ml	100
T AR1016 3 #2	6.816	0.0	5857719.567	408.1299	ng/ml	100
T AR1016 4 #2	6.995	0.0	4389033.038	428.3471	ng/ml	100
T AR1016 5 #2	7.692	0.0	3164926.653	379.9996	ng/ml	100
T AR1260 1	8.534	0.0	1608093.024	444.6329	ng/ml	100
T AR1260 2	9.059	0.0	2502464.556	453.9656	ng/ml	100
T AR1260 3	9.510	0.0	2600914.150	451.4129	ng/ml	100
T AR1260 1 #2	9.886	0.0	6713395.368	428.4679	ng/ml	100
T AR1260 4	10.010	0.0	1483568.411	472.0640	ng/ml	100
T AR1260 2 #2	10.153	0.0	7959733.157	422.8074	ng/ml	100
T AR1260 5	10.395	0.0	3152040.345	473.3080	ng/ml	100
T AR1260 3 #2	10.584	0.0	10025419.265	420.7153	ng/ml	100
T AR1260 4 #2	11.002	0.0	5856249.808	424.1151	ng/ml	100
T AR1260 5 #2	11.670	0.0	8358267.498	403.4071	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

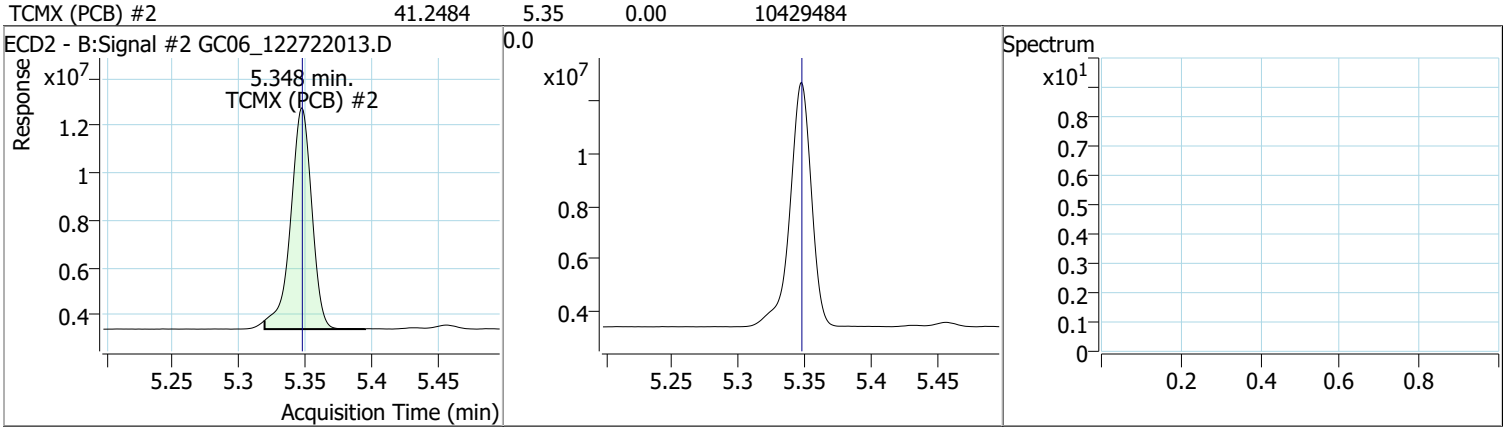
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	39.1106	4.95	0.00	2011430				



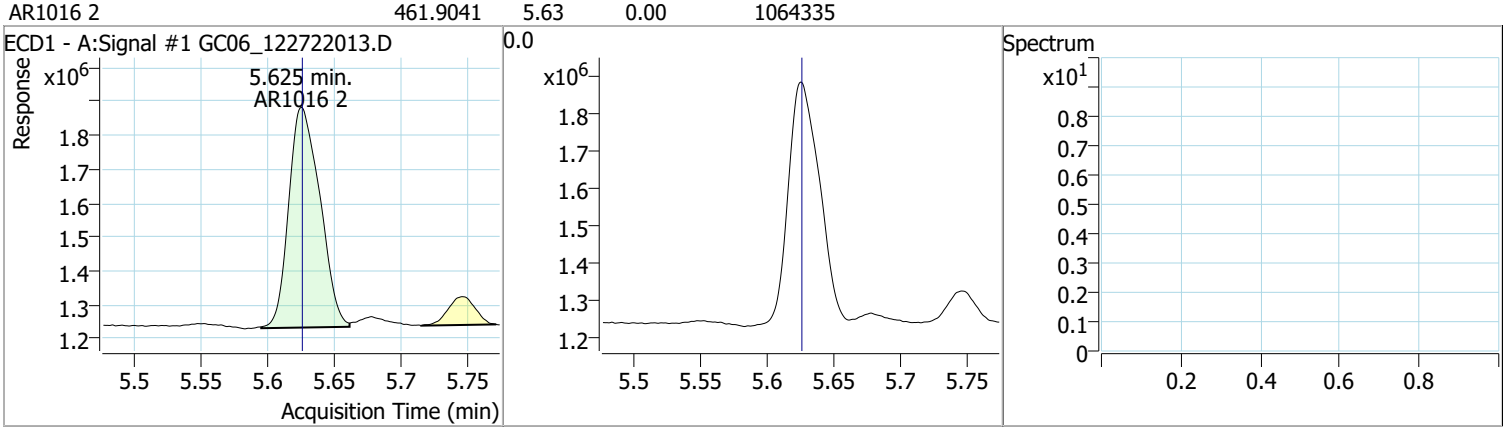
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	431.4320	5.29	0.00	483852				



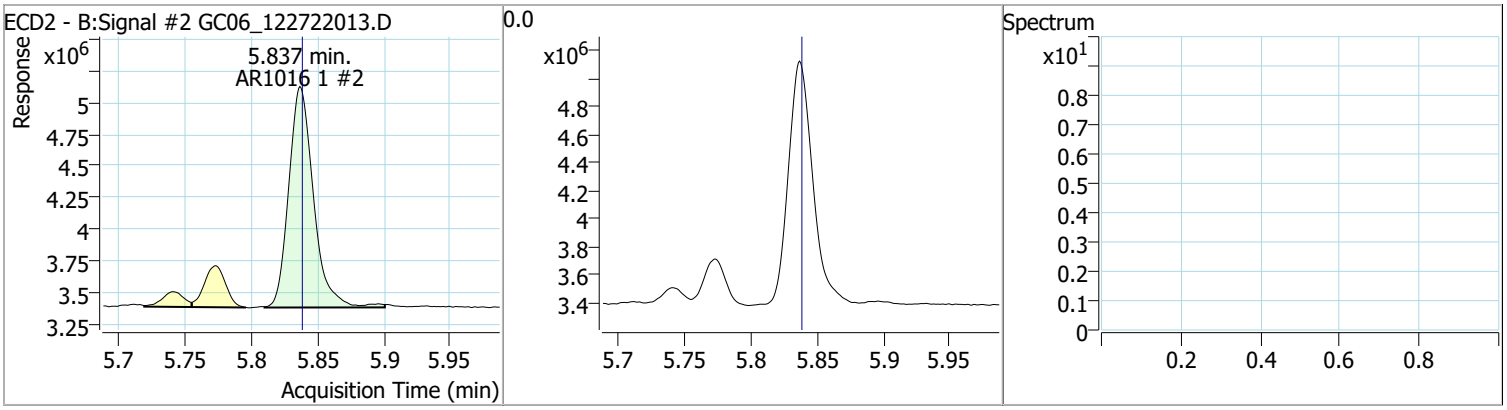
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	41.2484	5.35	0.00	10429484				



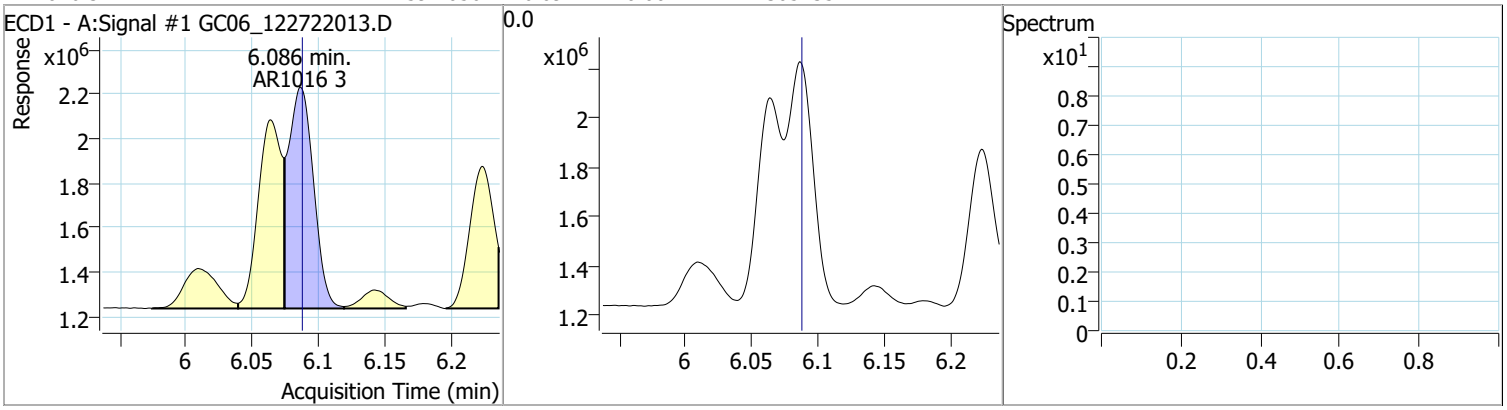
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	461.9041	5.63	0.00	1064335				



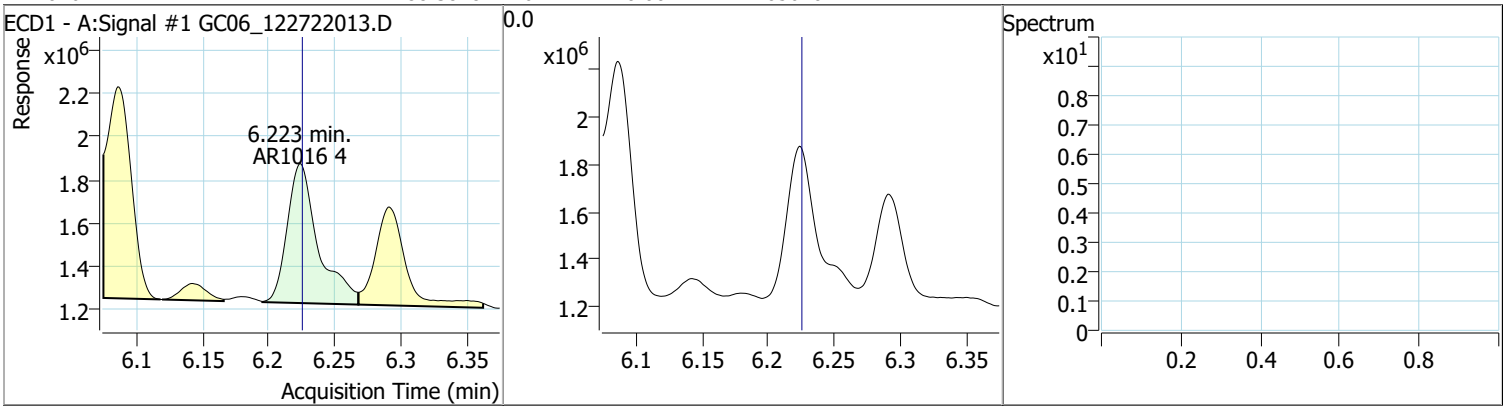
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	415.4046	5.84	0.00	2273077				



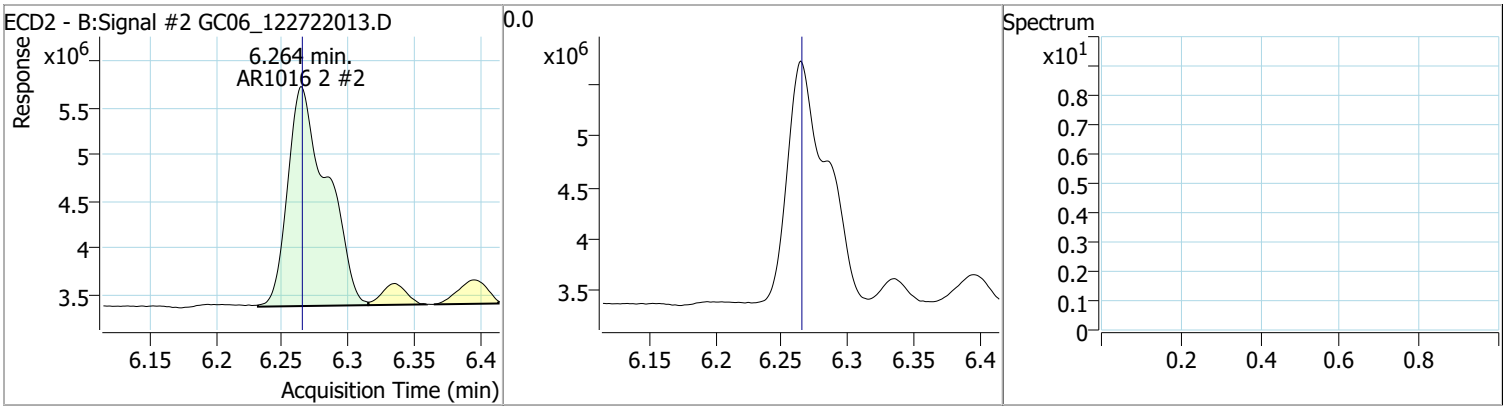
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	459.2056	6.09	0.00	1305735				



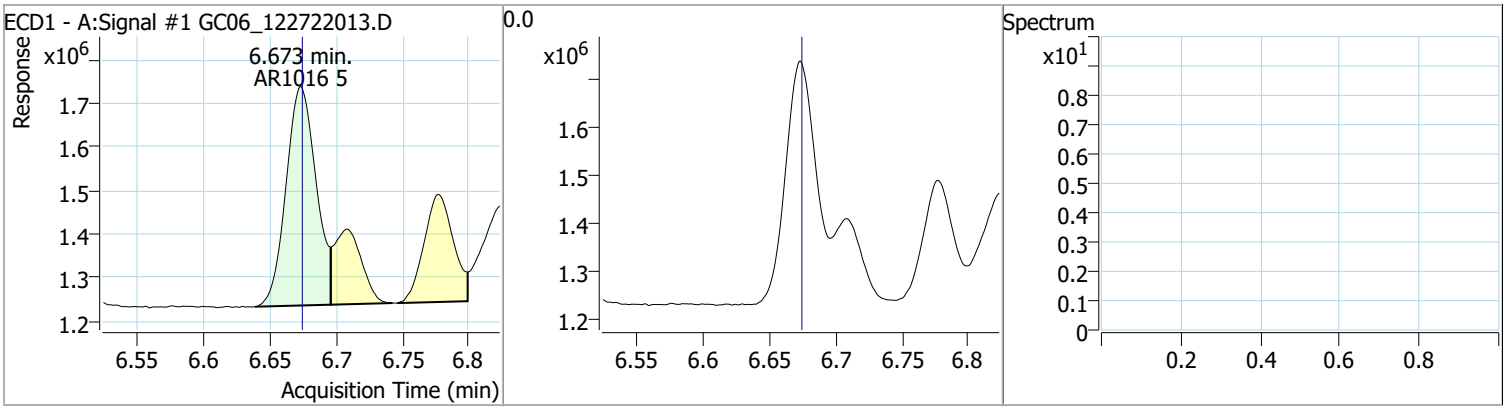
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	488.3878	6.22	0.00	1056202				



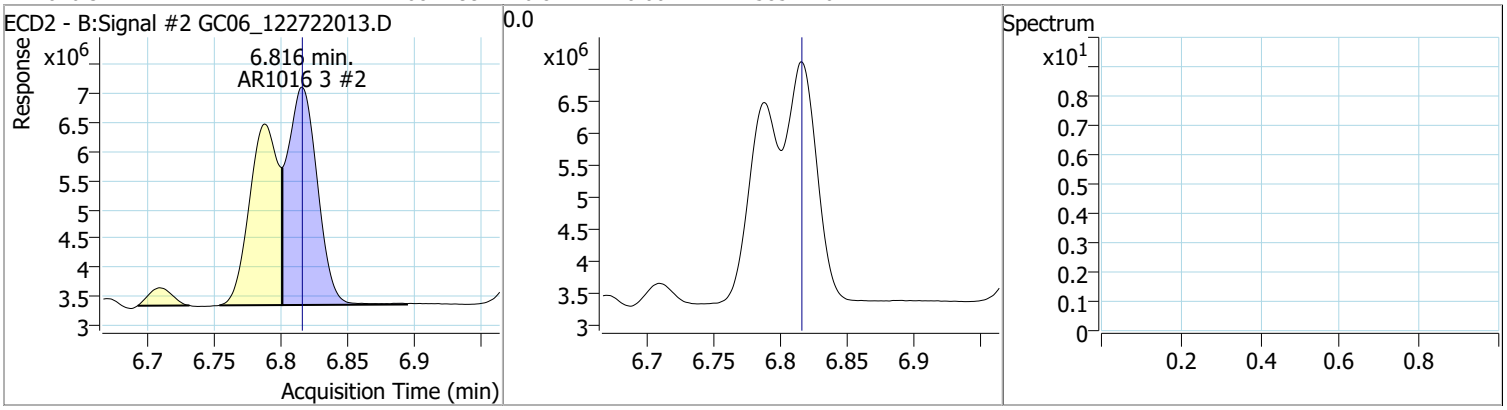
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	619.2320	6.26	0.00	4891328				



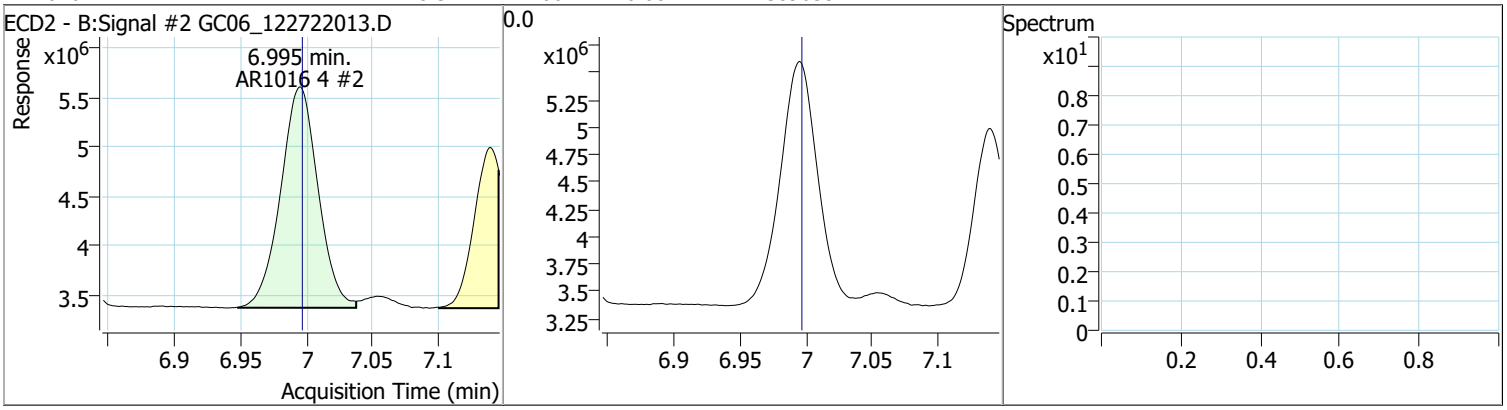
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	456.3221	6.67	0.00	794869				



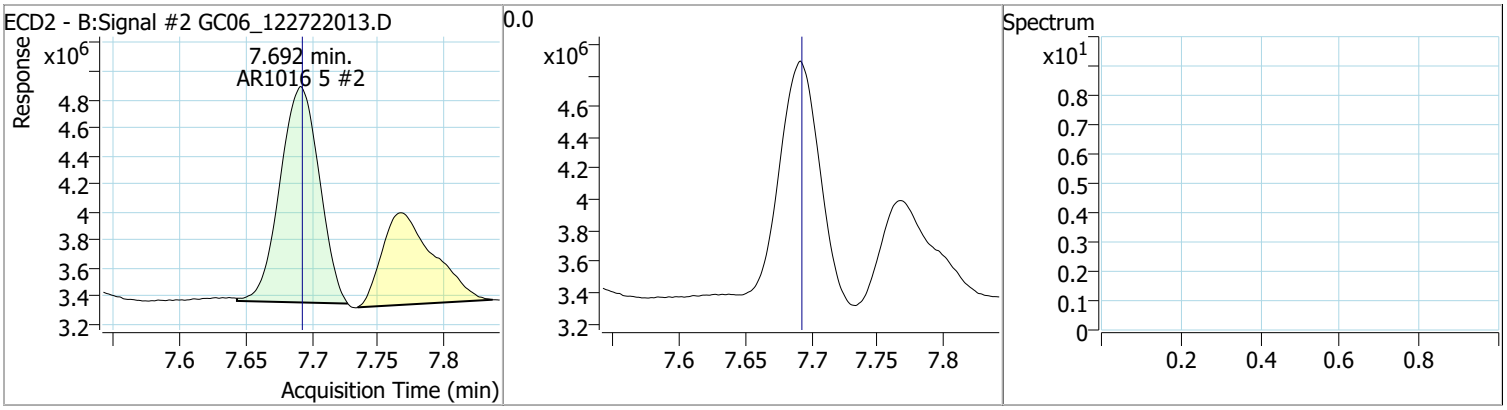
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	408.1299	6.82	0.00	5857720				



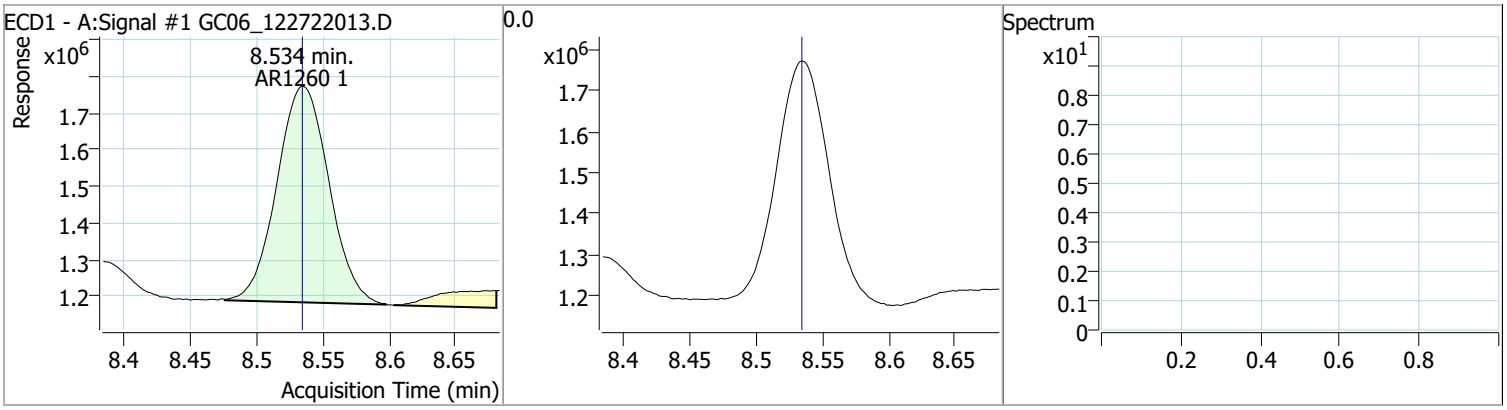
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	428.3471	7.00	0.00	4389033				



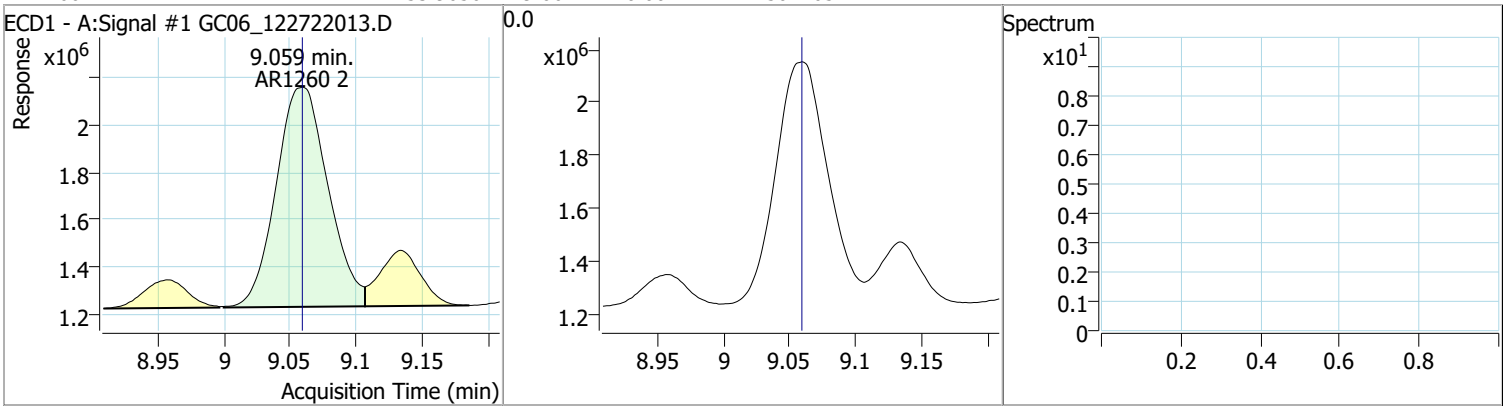
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	379.9996	7.69	0.00	3164927				



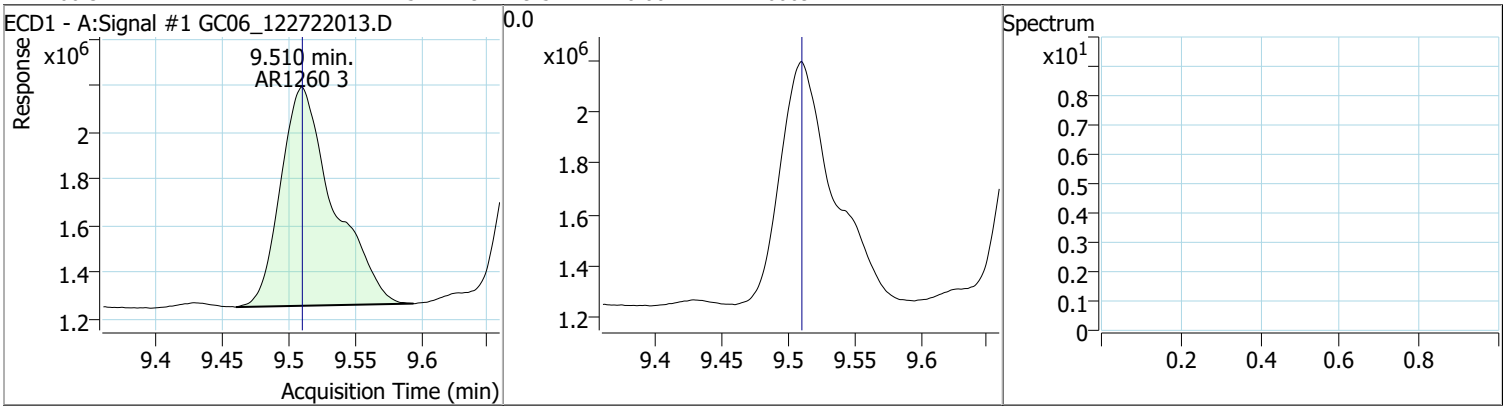
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	444.6329	8.53	0.00	1608093				



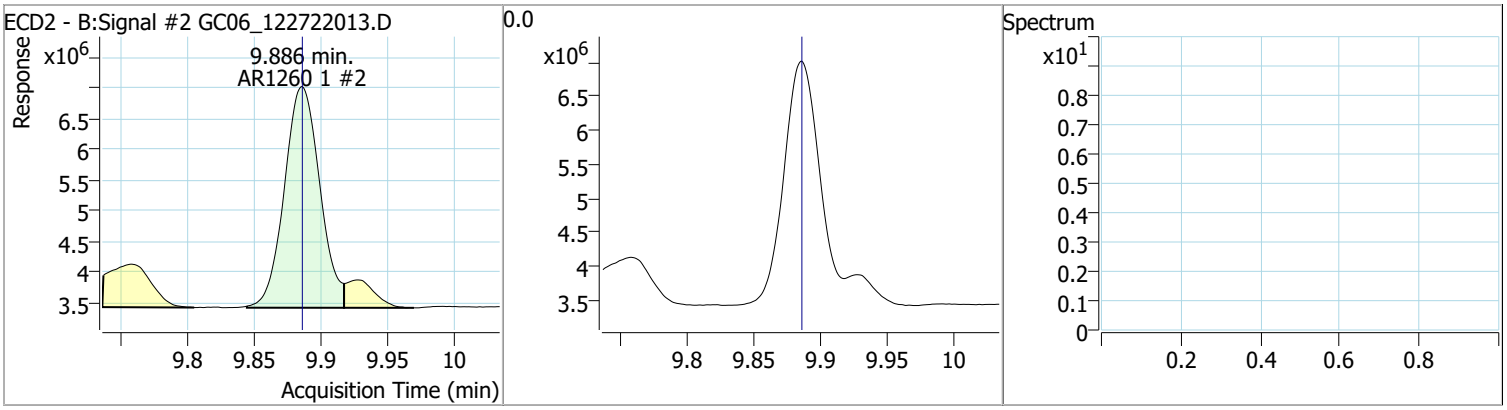
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	453.9656	9.06	0.00	2502465				



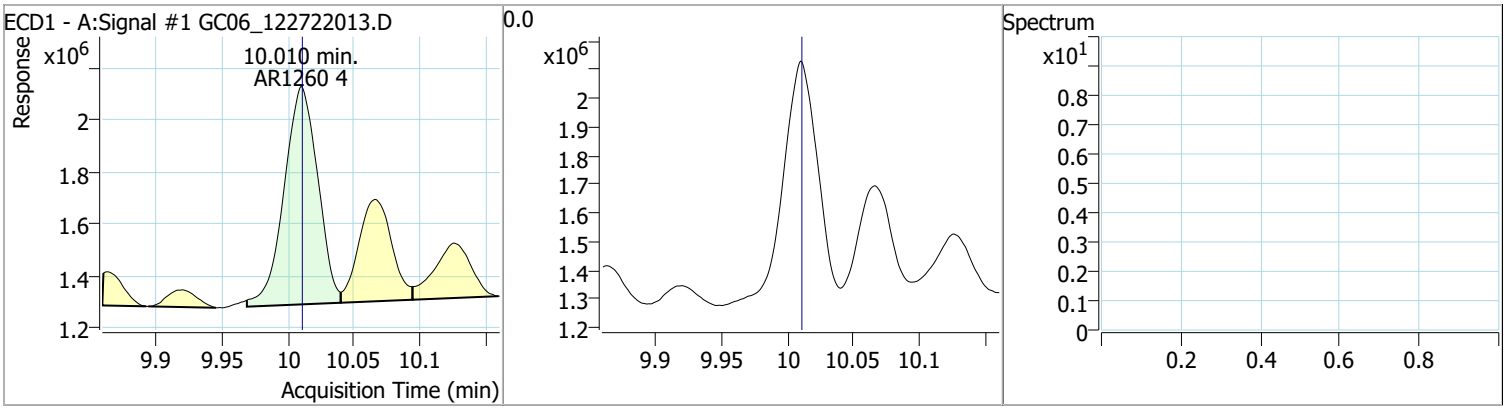
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	451.4129	9.51	0.00	2600914				



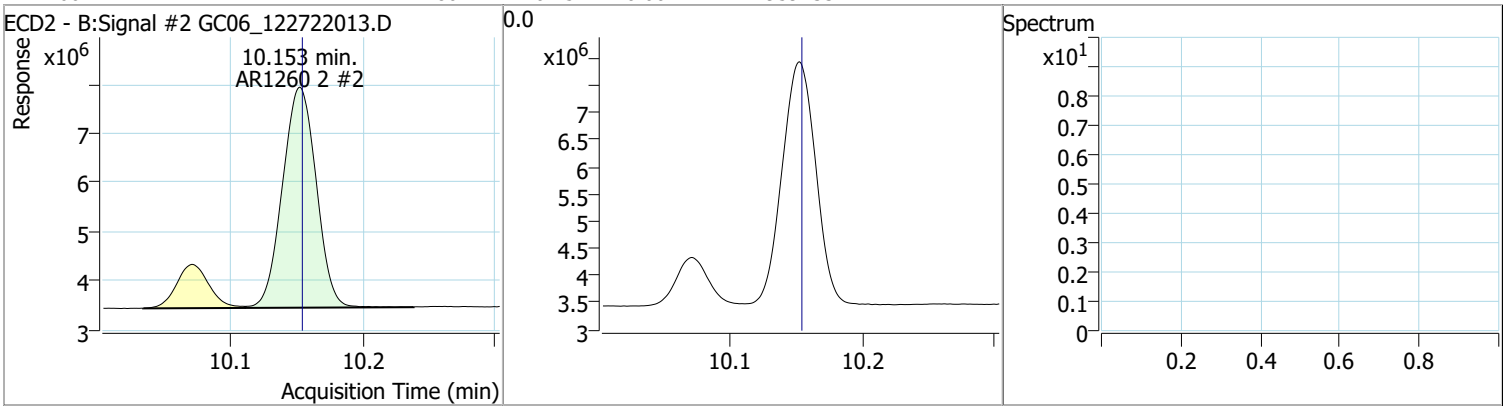
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	428.4679	9.89	0.00	6713395				



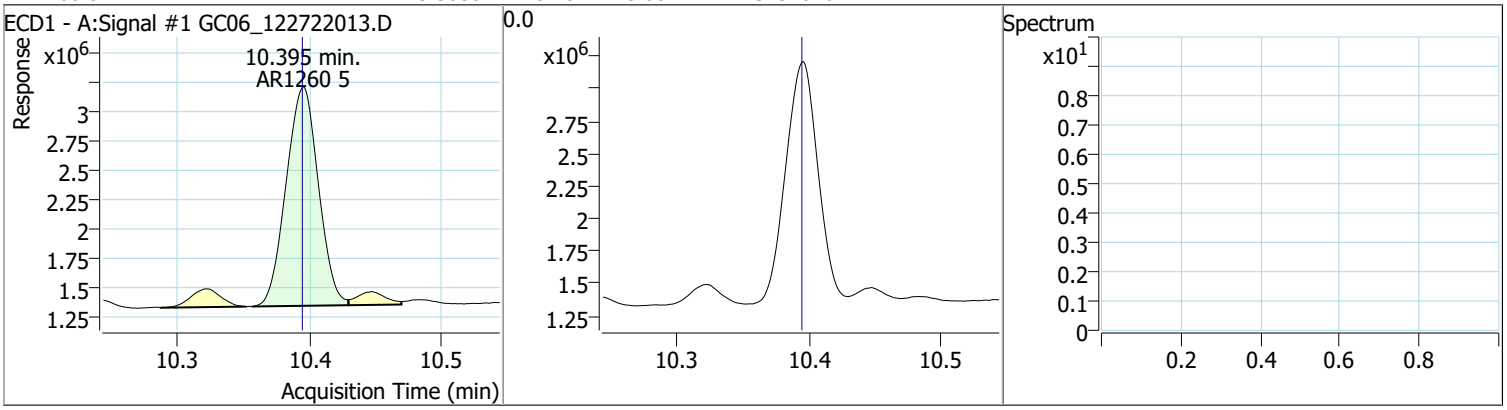
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	472.0640	10.01	0.00	1483568				



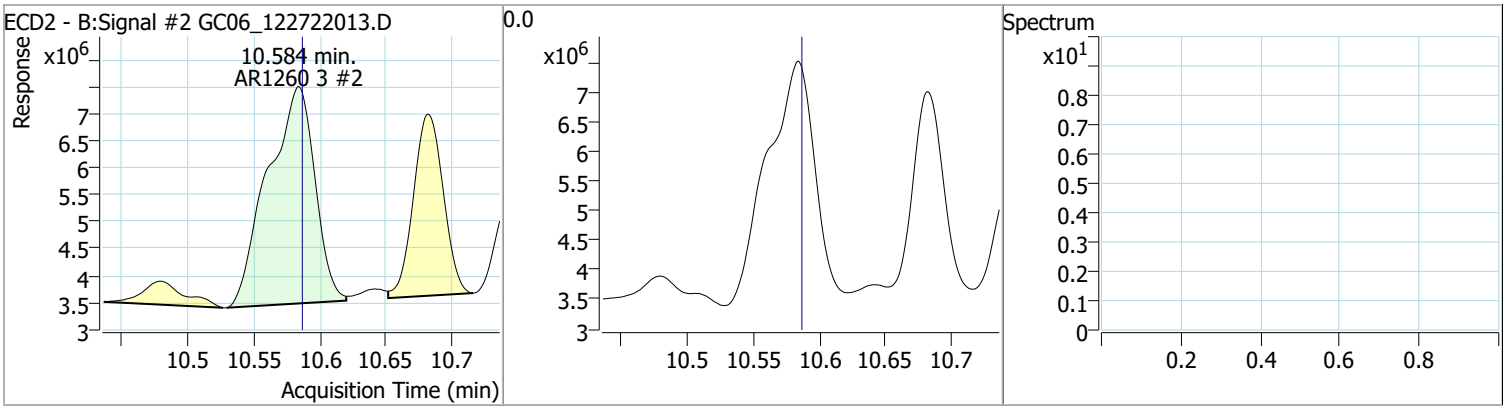
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AR1260 2 #2	422.8074	10.15	0.00	7959733				



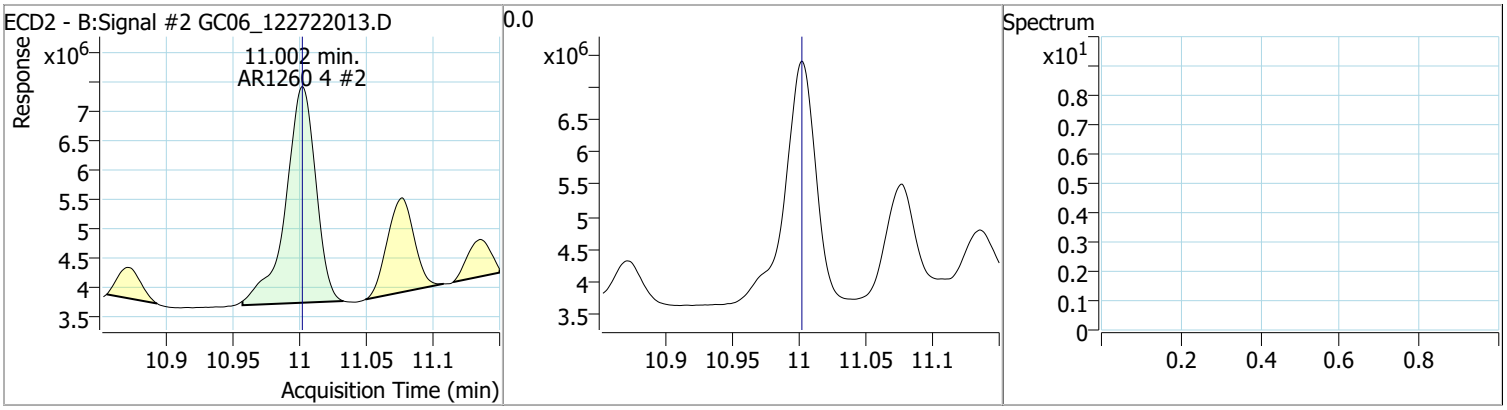
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	473.3080	10.40	0.00	3152040				



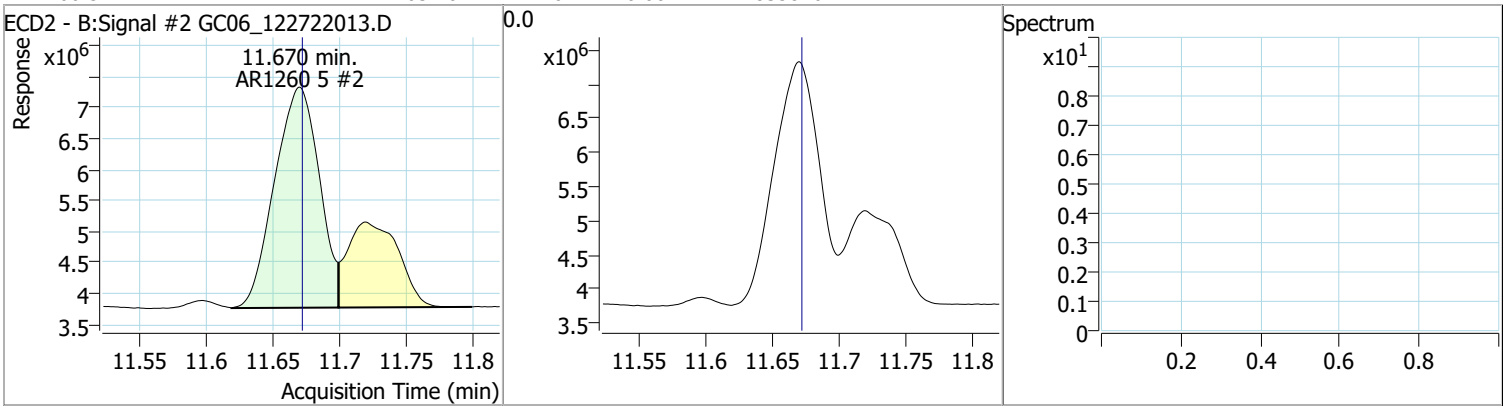
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	420.7153	10.58	0.00	10025419				



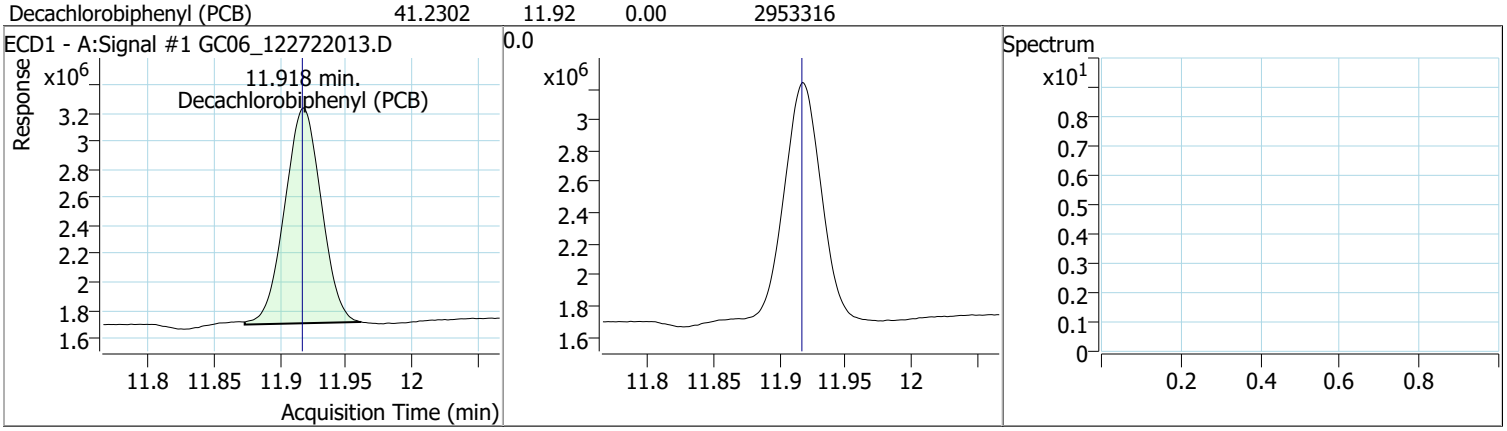
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	424.1151	11.00	0.00	5856250				



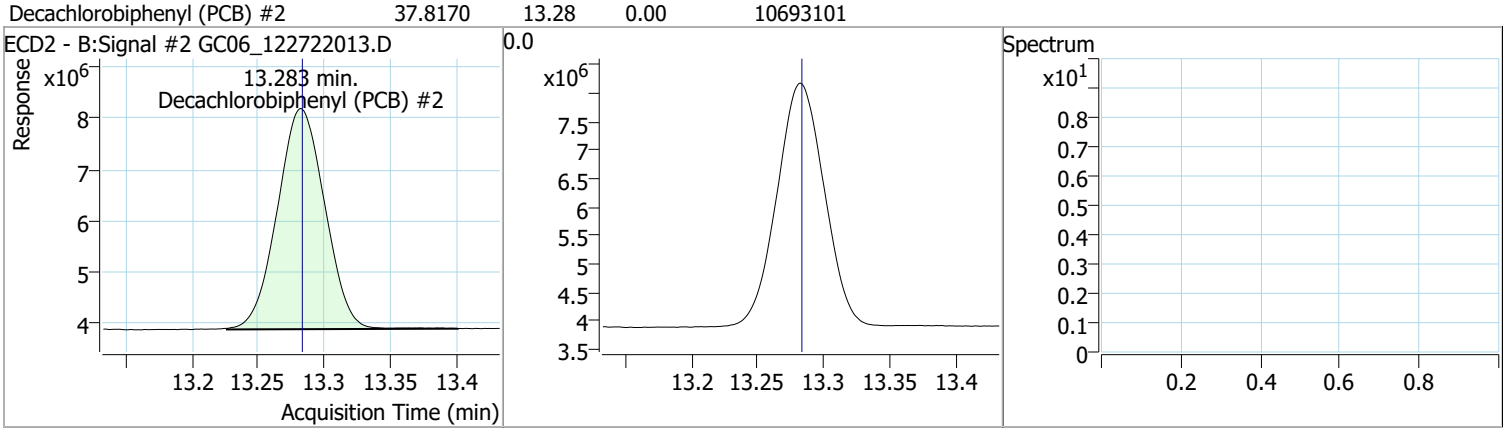
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	403.4071	11.67	0.00	8358267				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	41.2302	11.92	0.00	2953316				

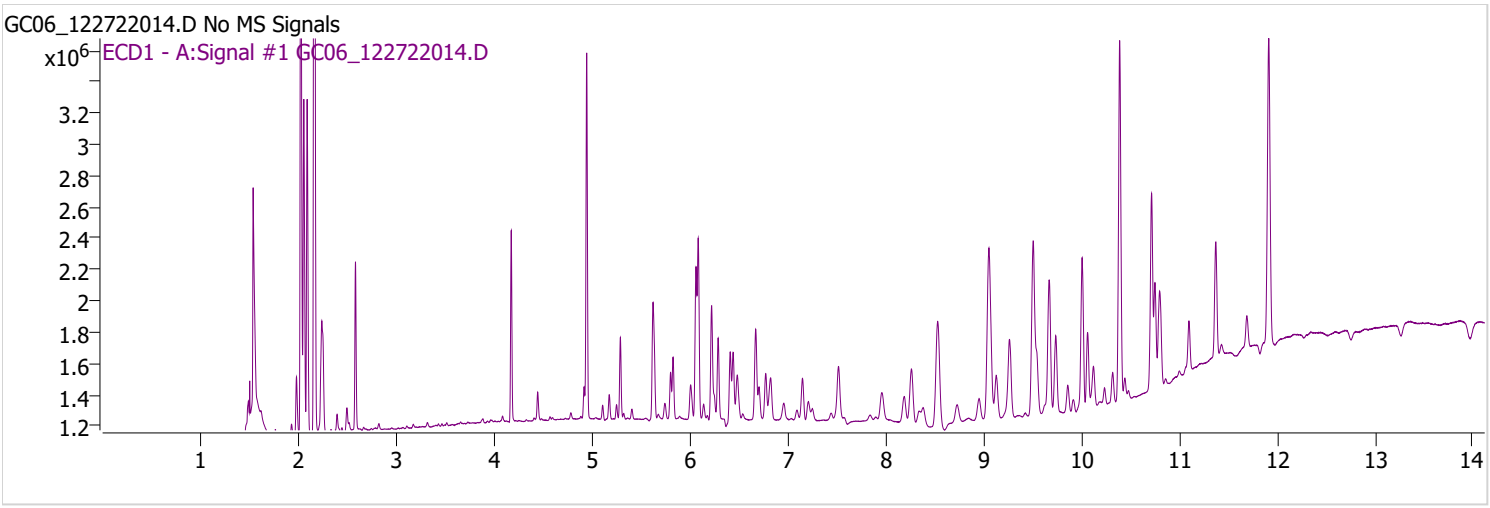


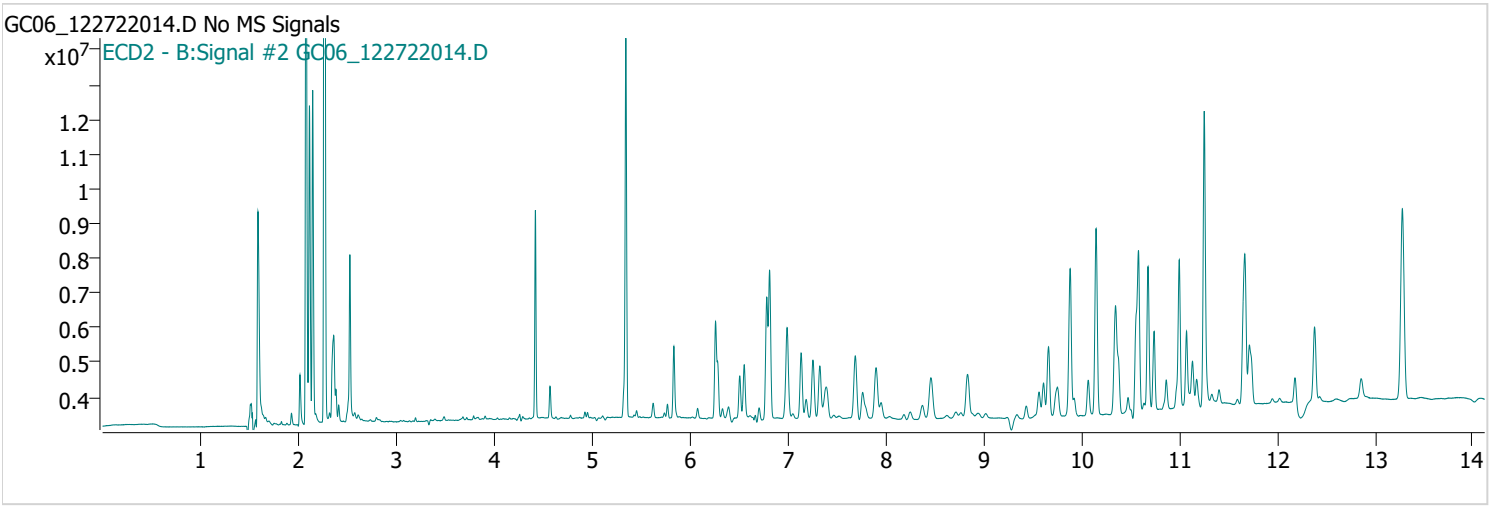
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	37.8170	13.28	0.00	10693101				



Quantitation Results Report (Not Reviewed)

Data File	GC06_122722014.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/27/2022 1:17:50 PM
Sample Name	QC1034028, 303863, 1	Instrument	SVOA-GC06
Vial	3	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_14a.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	122722PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



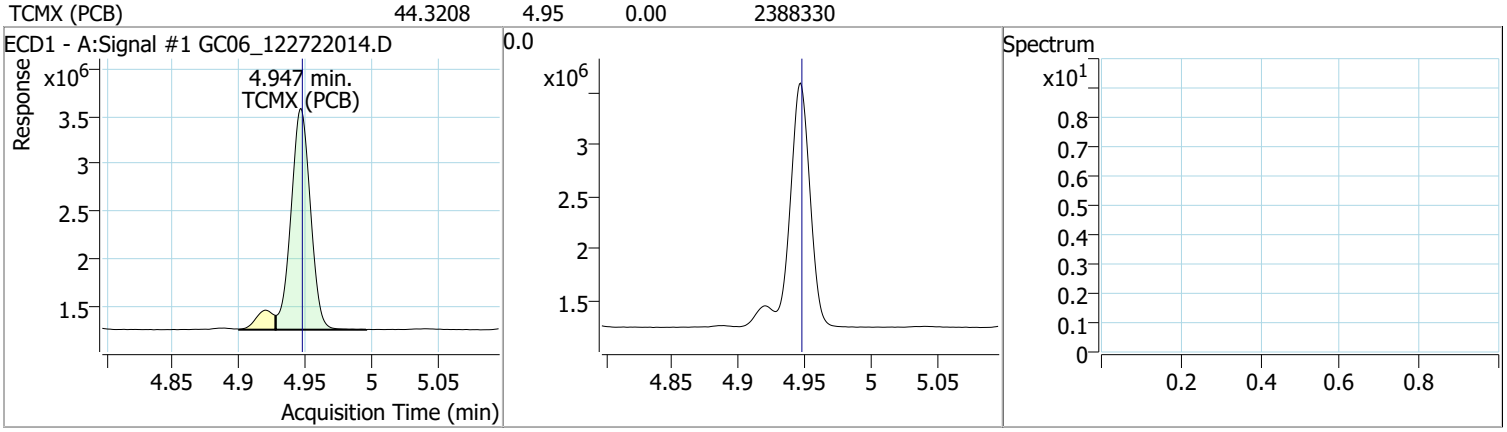


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.176	0.0	1120826.741	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.423	0.0	5397375.468	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.947	0.0	2388330.461	44.3208	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 221.60%		*	
S TCMX (PCB) #2	5.347	0.0	12411085.152	47.8811	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 239.41%		*	
S Decachlorobiphenyl (PCB)	11.916	0.0	3899296.366	53.0776	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 265.39%		*	
S Decachlorobiphenyl (PCB) #2	13.281	0.0	13445367.682	46.8625	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 234.31%		*	
Target Compounds							QValue

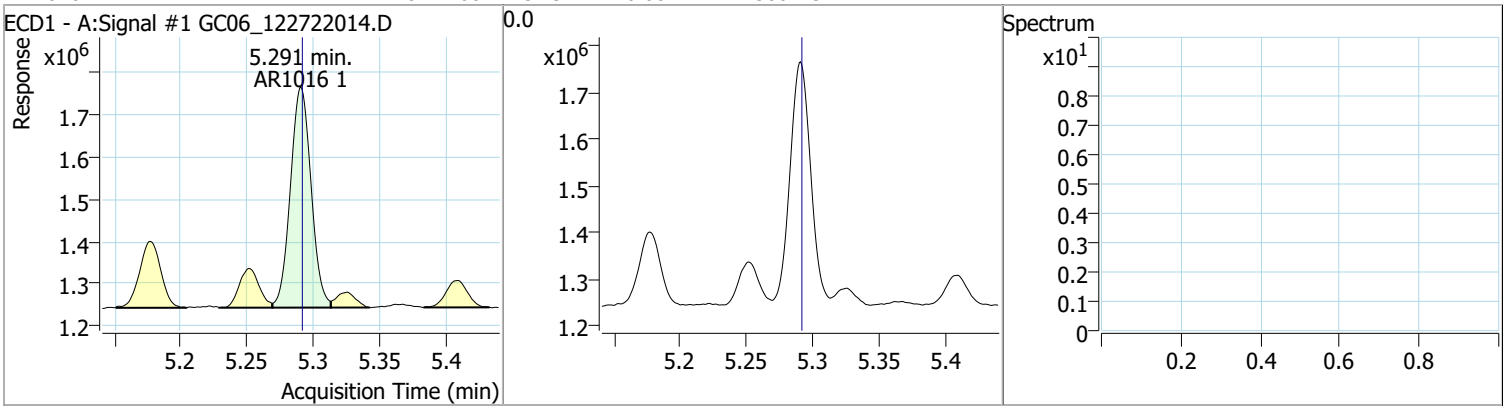
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.291	0.0	566719.495	482.2708	ng/ml	100
T AR1016 2	5.625	0.0	1249525.227	519.3910	ng/ml	100
T AR1016 1 #2	5.838	0.0	2664624.709	475.0107	ng/ml	100
T AR1016 3	6.086	0.0	1521251.982	510.5950	ng/ml	100
T AR1016 4	6.223	0.0	1241082.095	547.6987	ng/ml	100
T AR1016 2 #2	6.263	0.0	5709040.057	705.0176	ng/ml	100
T AR1016 5	6.673	0.0	928525.595	508.7367	ng/ml	100
T AR1016 3 #2	6.815	0.0	7063800.393	480.0854	ng/ml	100
T AR1016 4 #2	6.994	0.0	5046734.040	480.4494	ng/ml	100
T AR1016 5 #2	7.692	0.0	3914267.679	458.4376	ng/ml	100
T AR1260 1	8.533	0.0	1875714.150	494.9717	ng/ml	100
T AR1260 2	9.057	0.0	2931811.796	507.5915	ng/ml	100
T AR1260 3	9.509	0.0	2696299.075	446.6212	ng/ml	100
T AR1260 1 #2	9.887	0.0	8661995.605	539.2674	ng/ml	100
T AR1260 4	10.009	0.0	1753449.755	534.4644	ng/ml	100
T AR1260 2 #2	10.152	0.0	9263960.215	480.0108	ng/ml	100
T AR1260 5	10.393	0.0	3930401.817	566.7043	ng/ml	100
T AR1260 3 #2	10.584	0.0	11719923.907	479.7564	ng/ml	100
T AR1260 4 #2	11.002	0.0	6641201.822	471.6723	ng/ml	100
T AR1260 5 #2	11.671	0.0	10055539.839	476.6540	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

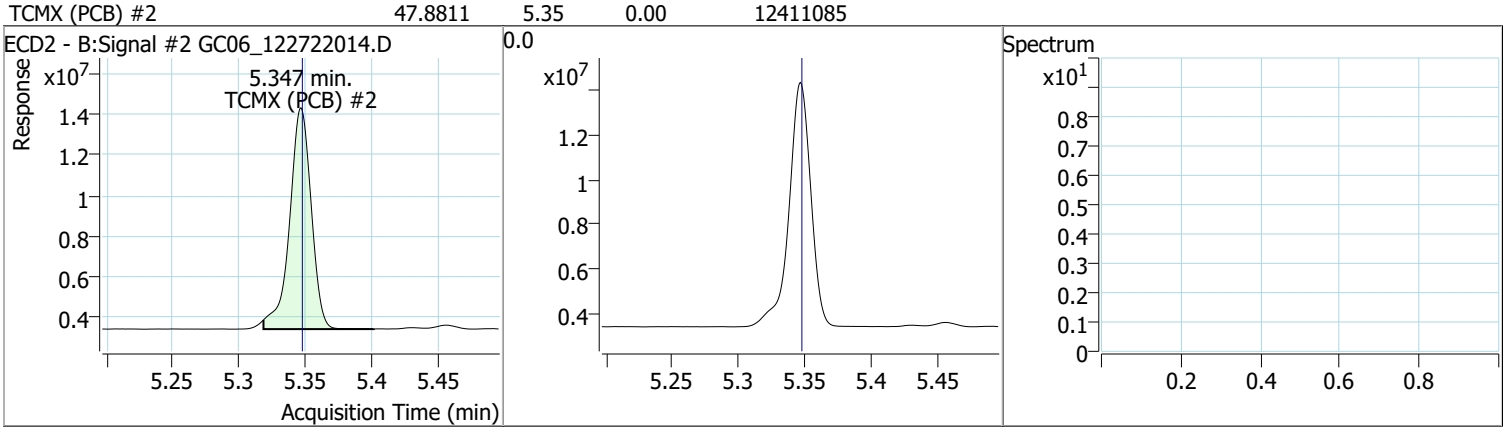
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	44.3208	4.95	0.00	2388330				



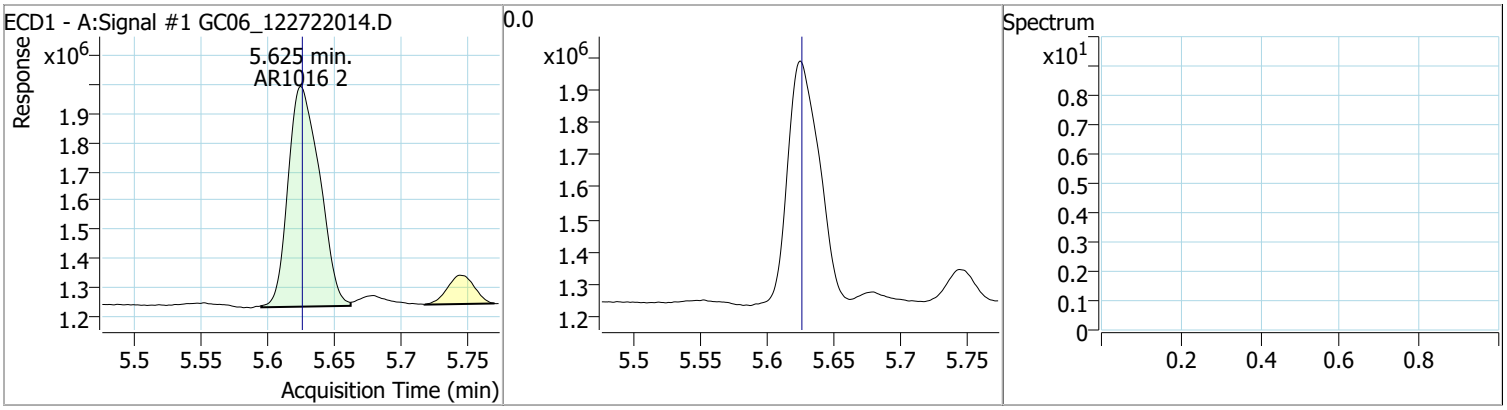
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	482.2708	5.29	0.00	566719				



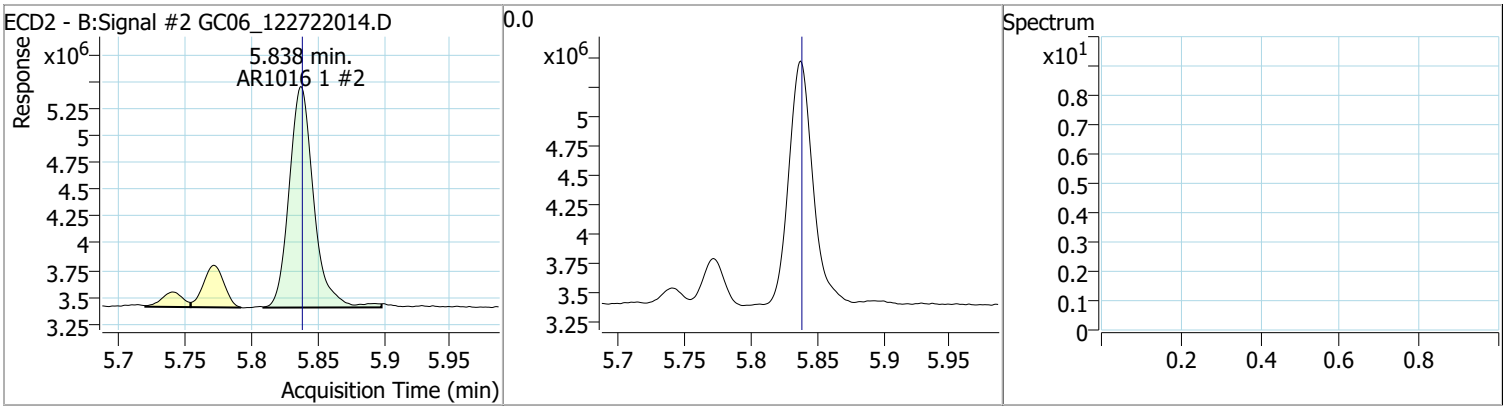
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	47.8811	5.35	0.00	12411085				



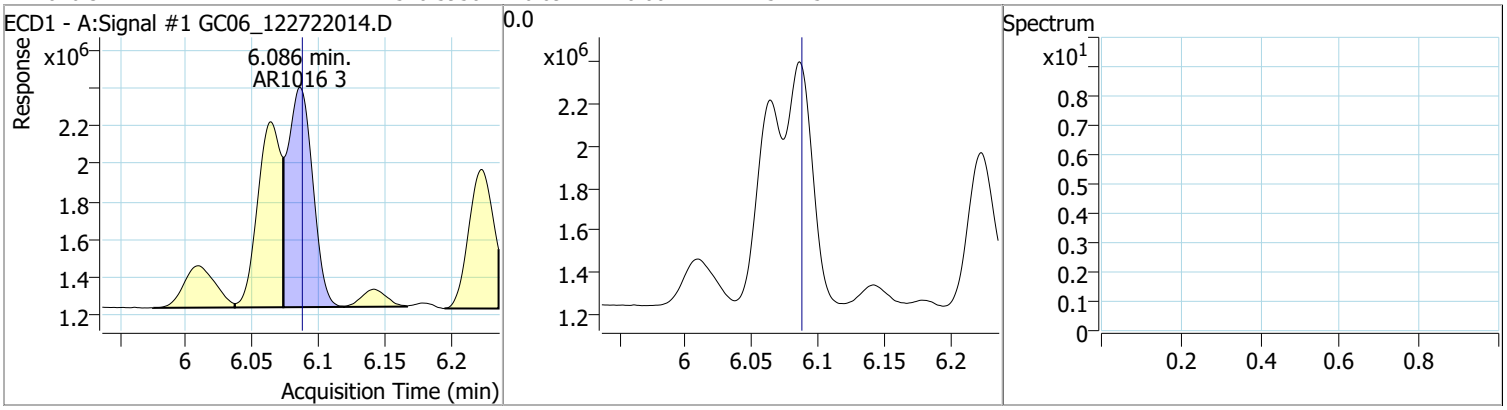
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	519.3910	5.63	0.00	1249525				



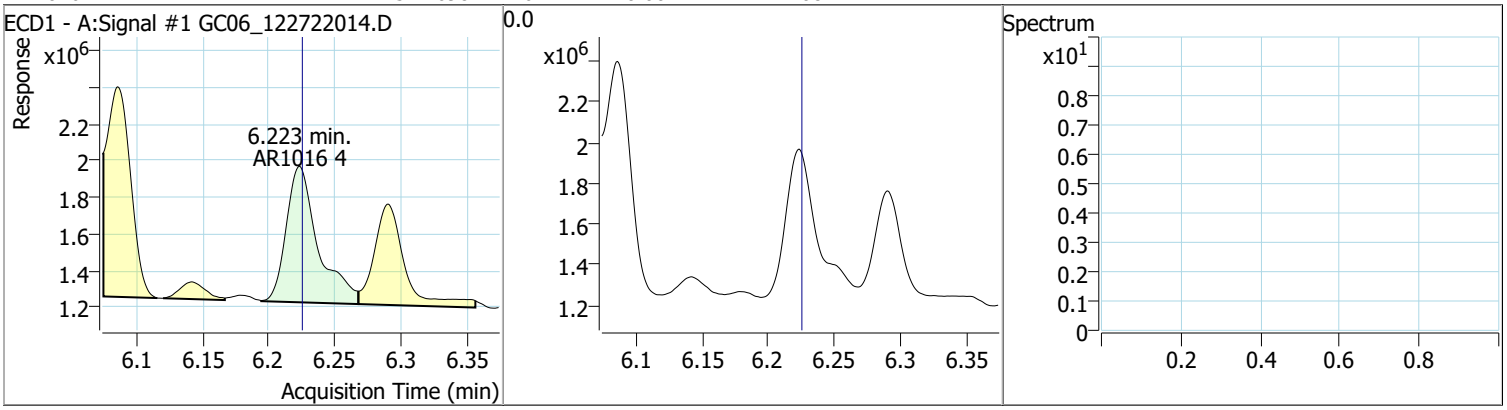
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	475.0107	5.84	0.00	2664625				



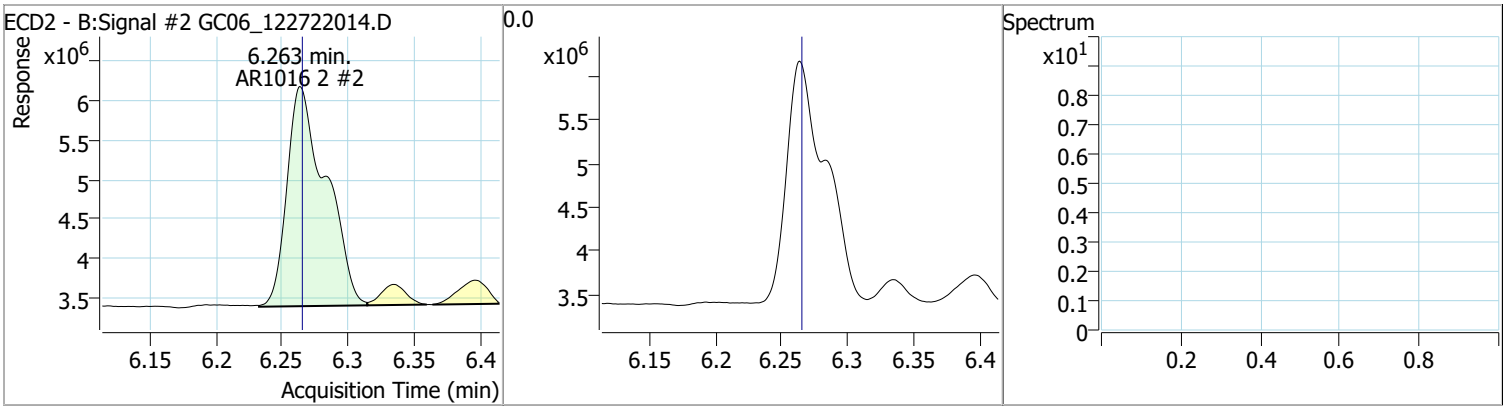
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	510.5950	6.09	0.00	1521252				



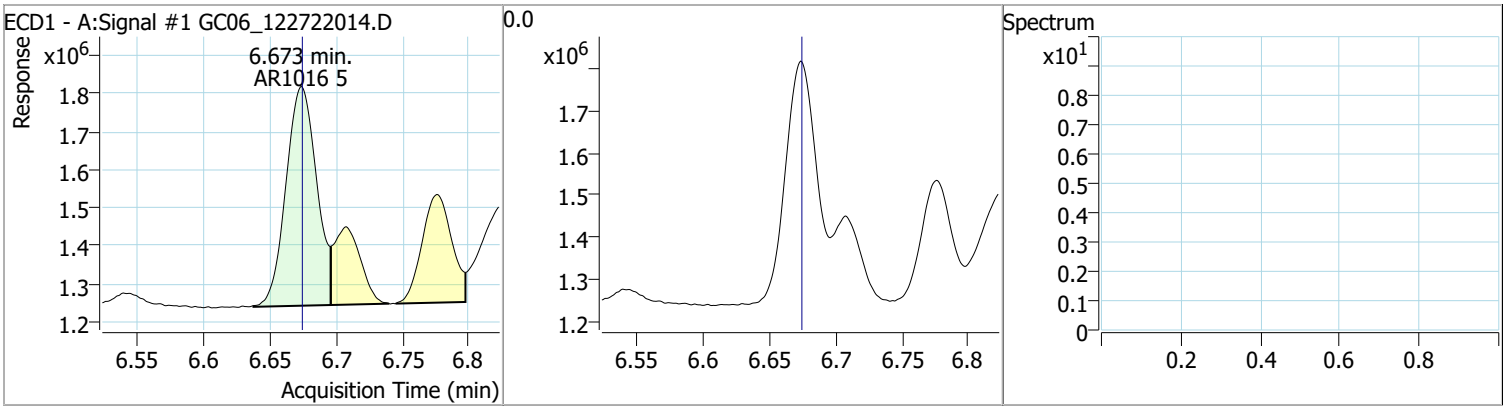
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	547.6987	6.22	0.00	1241082				



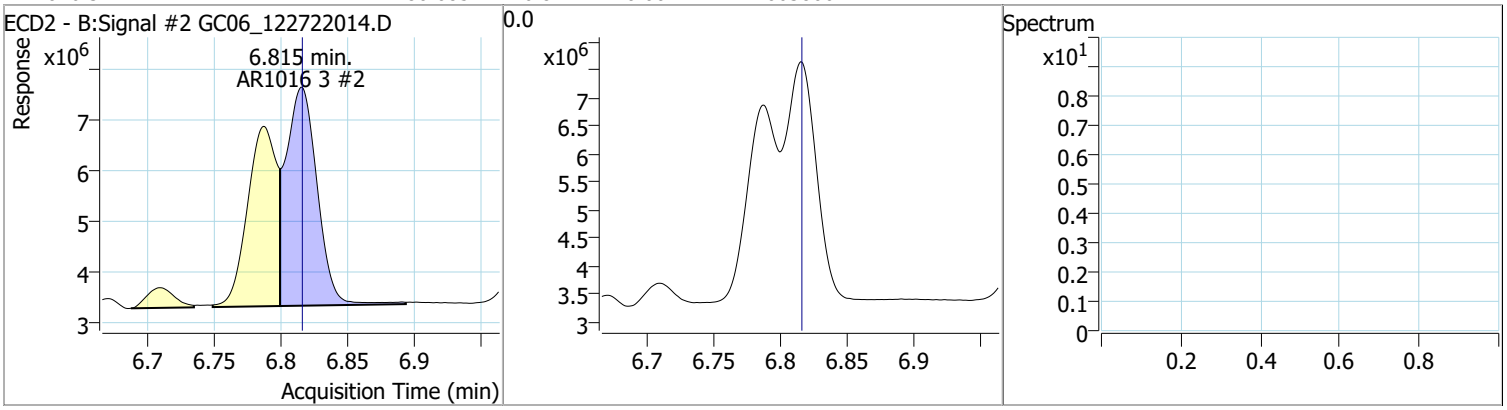
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	705.0176	6.26	0.00	5709040				



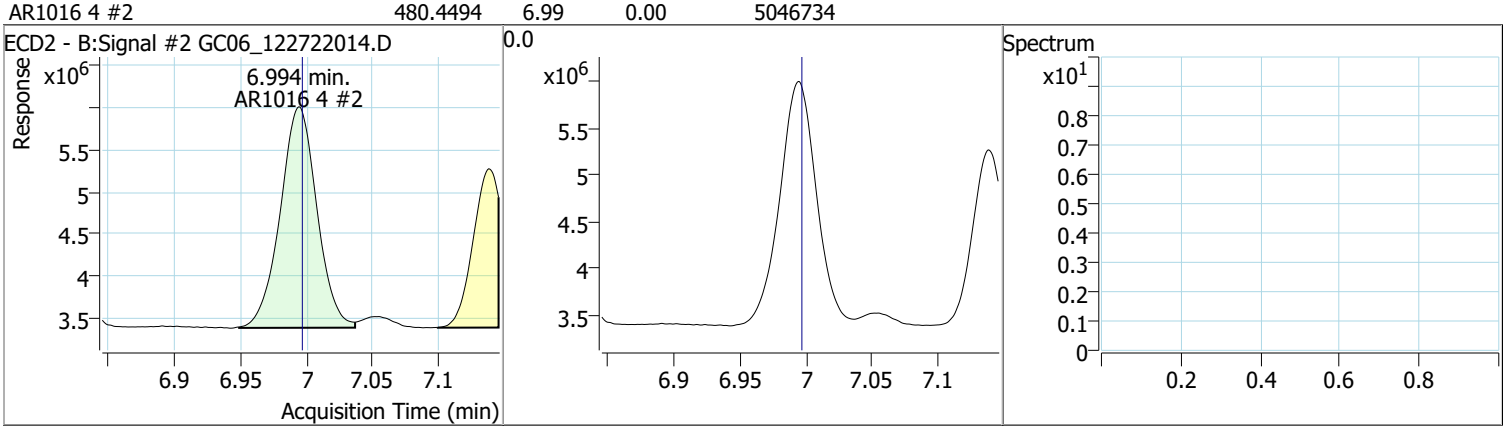
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	508.7367	6.67	0.00	928526				



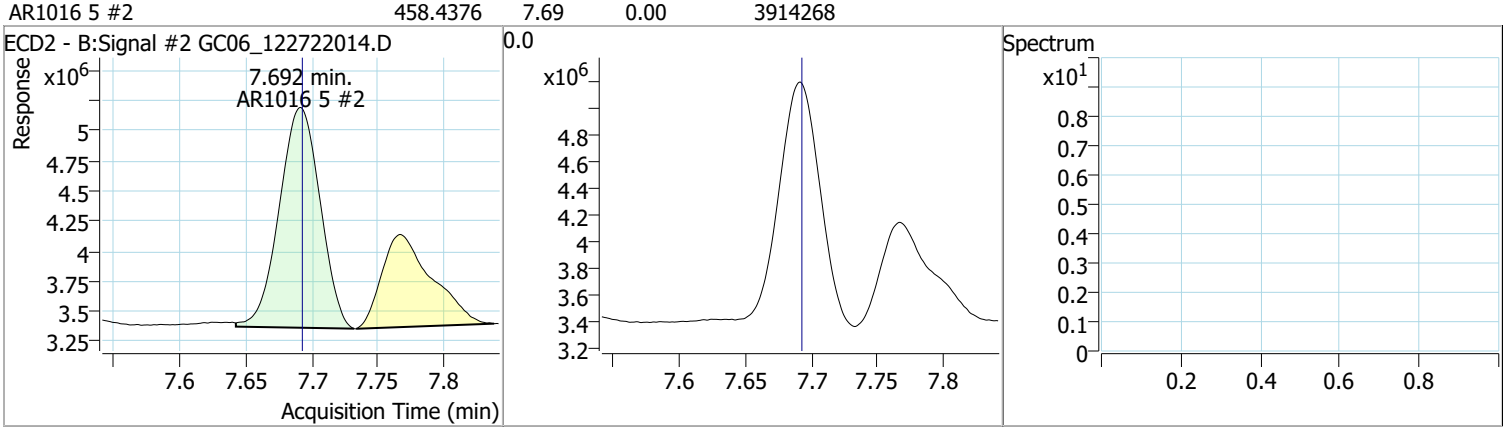
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	480.0854	6.82	0.00	7063800				



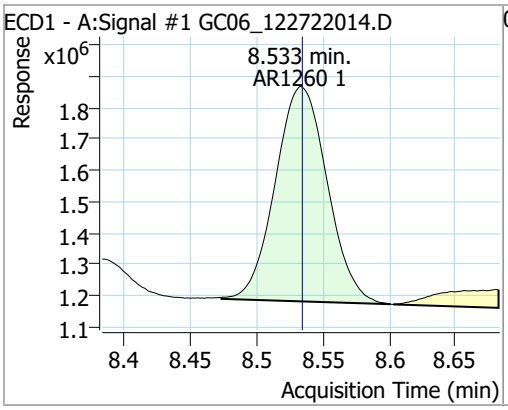
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	480.4494	6.99	0.00	5046734				

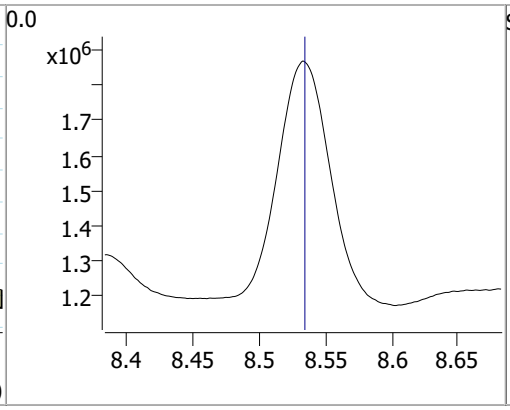


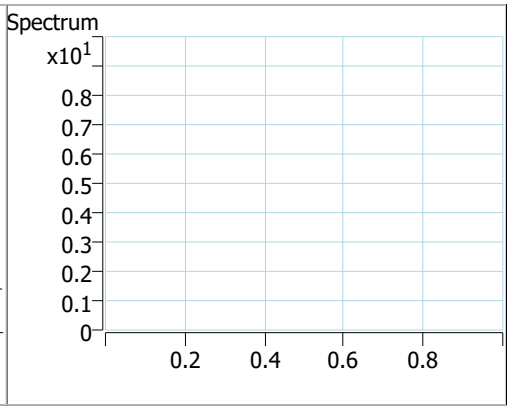
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	458.4376	7.69	0.00	3914268				



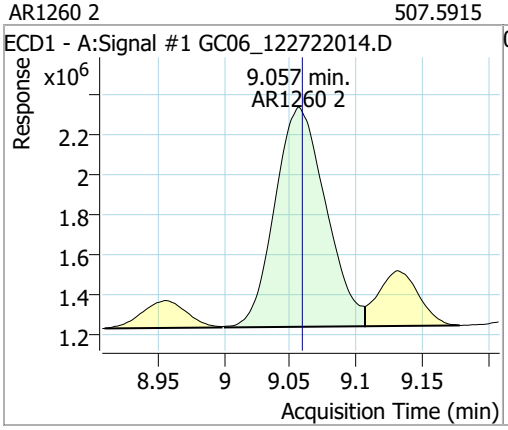
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	494.9717	8.53	0.00	1875714				

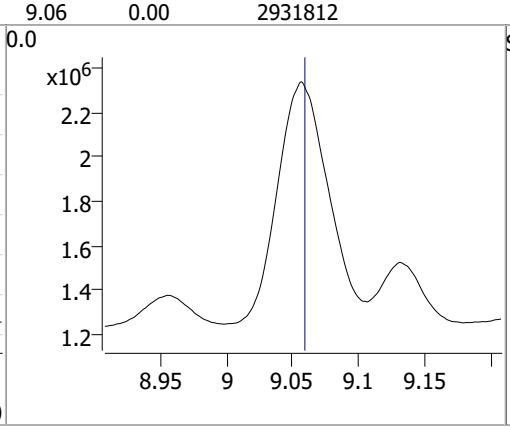


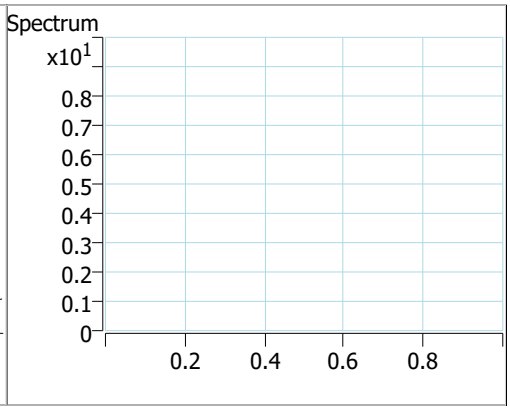




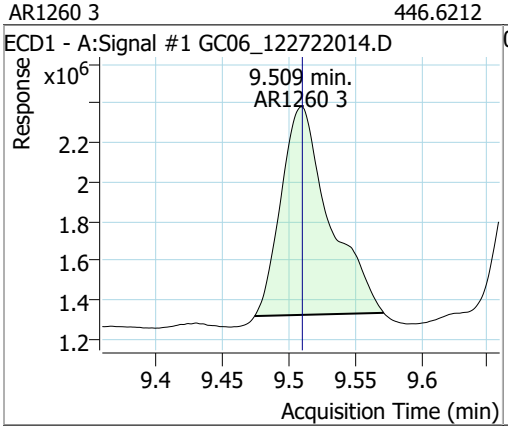
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	507.5915	9.06	0.00	2931812				

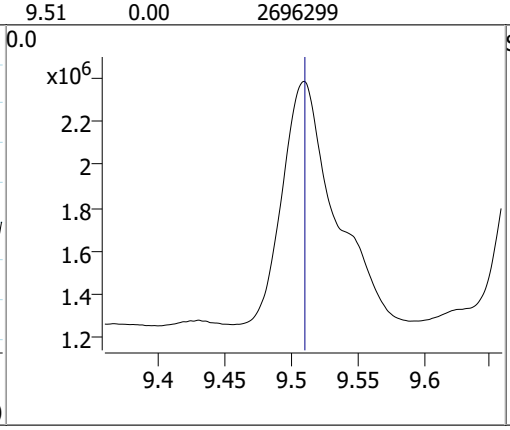


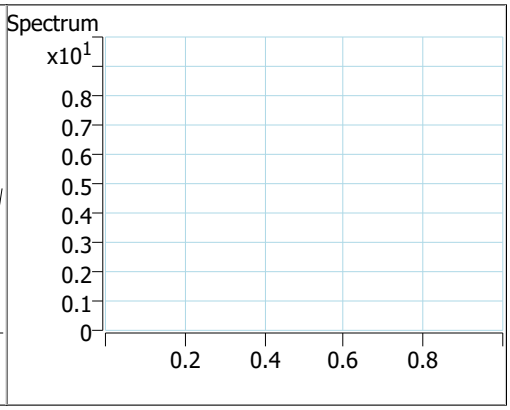




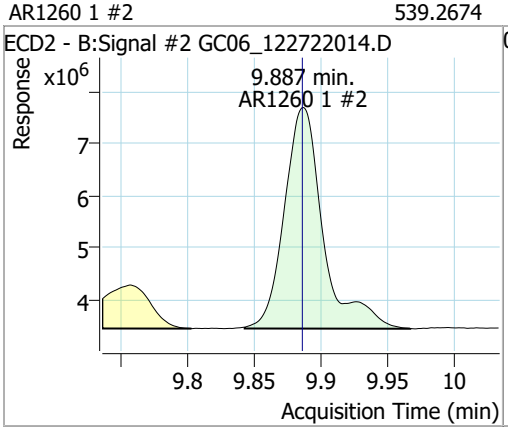
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	446.6212	9.51	0.00	2696299				

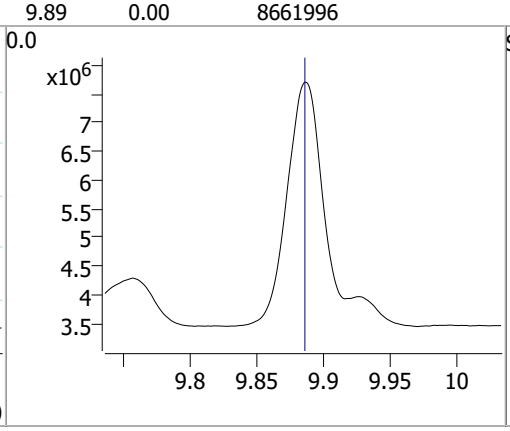


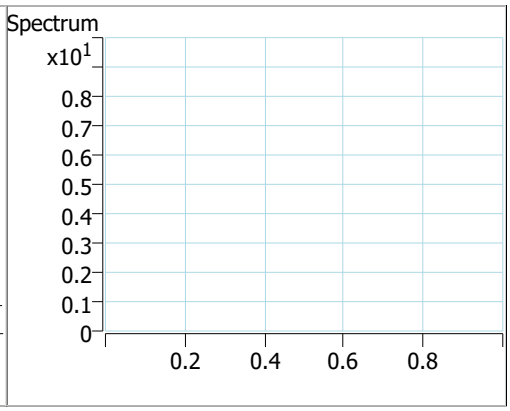




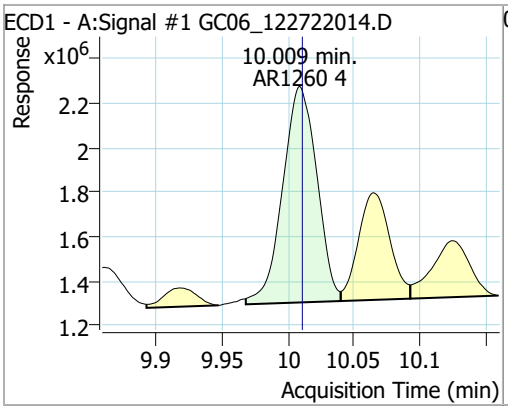
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	539.2674	9.89	0.00	8661996				

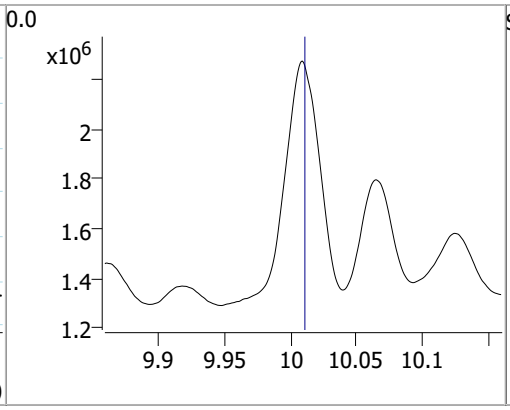


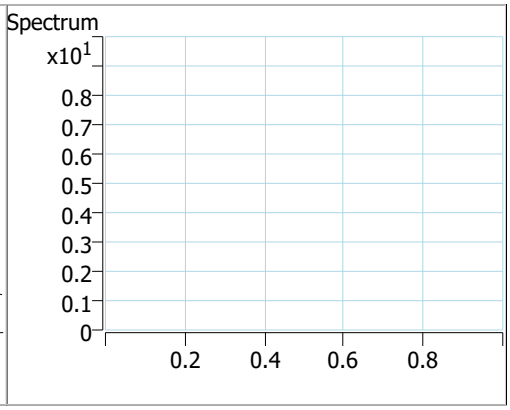




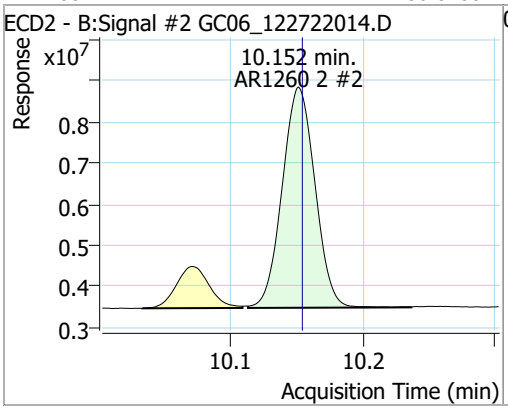
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	534.4644	10.01	0.00	1753450				

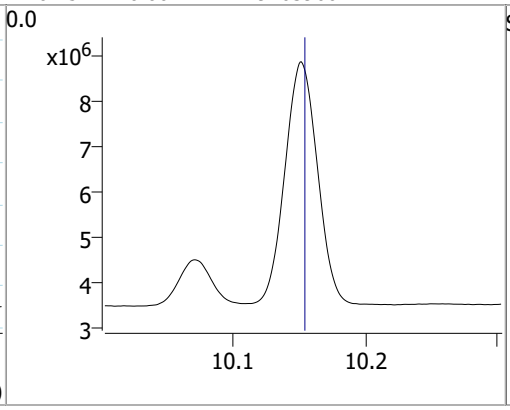


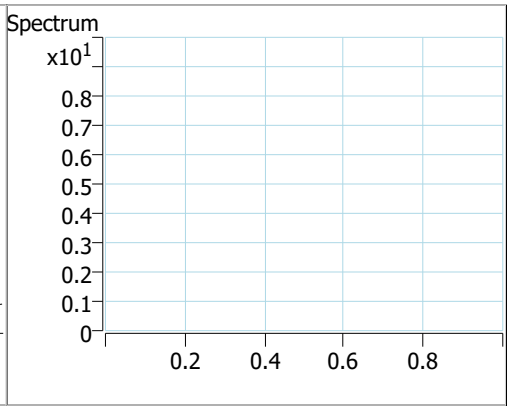




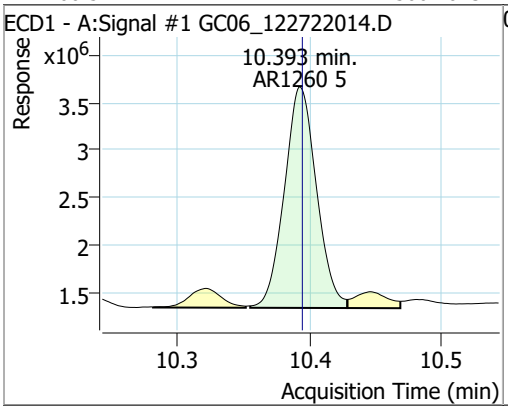
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	480.0108	10.15	0.00	9263960				

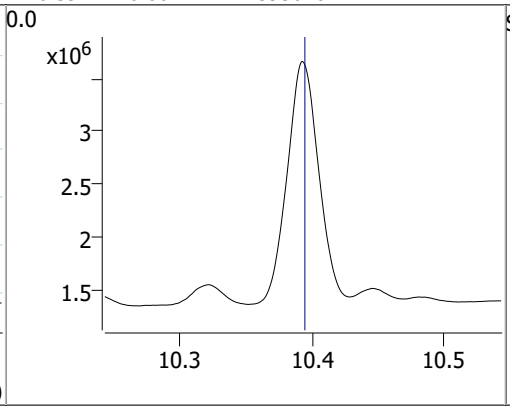


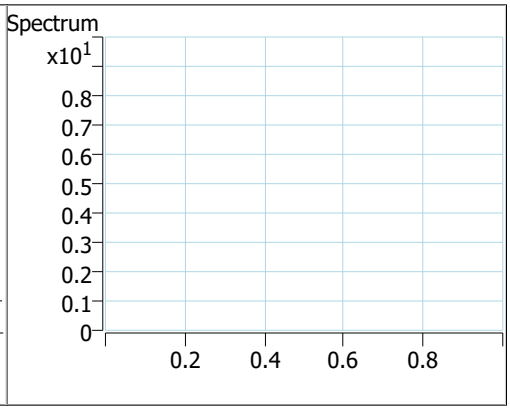




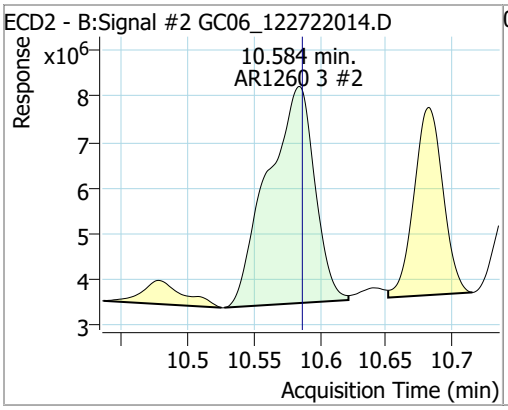
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	566.7043	10.39	0.00	3930402				

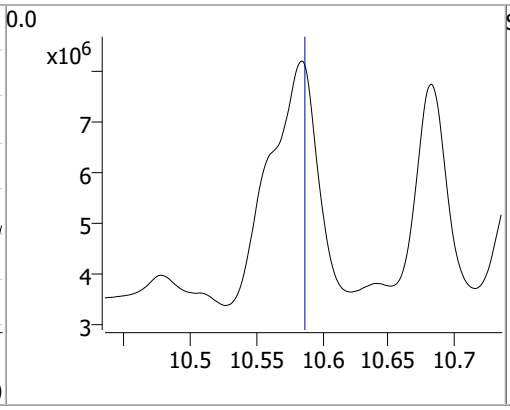


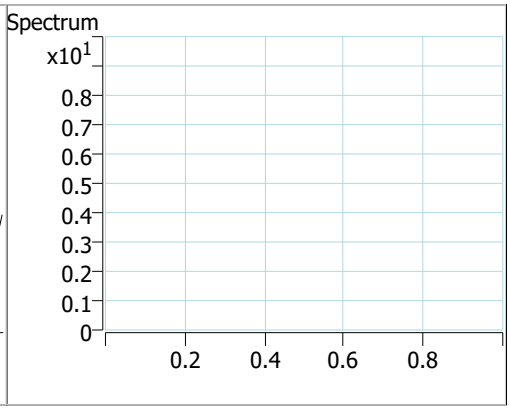




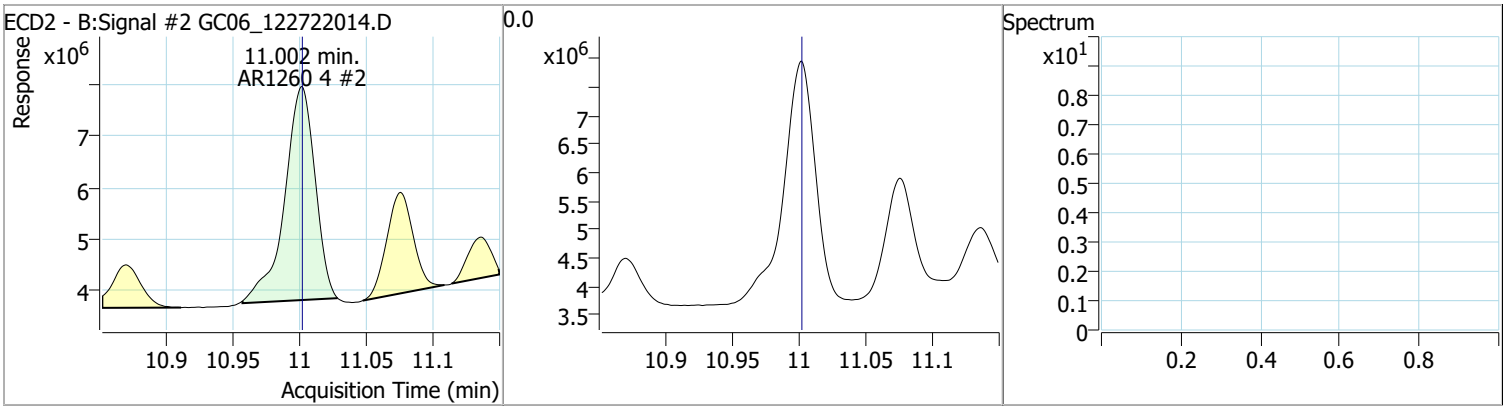
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	479.7564	10.58	0.00	11719924				



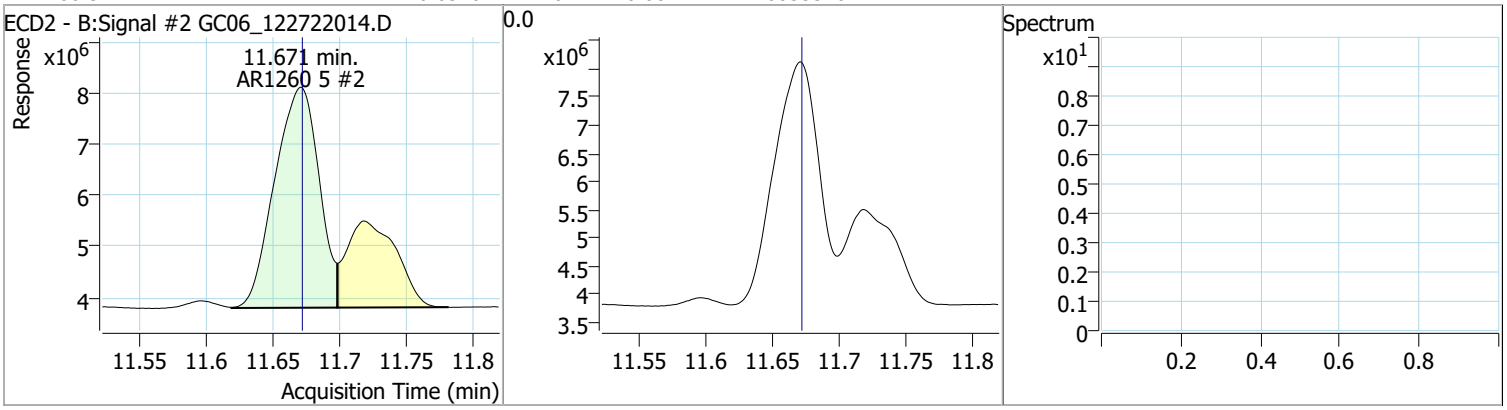




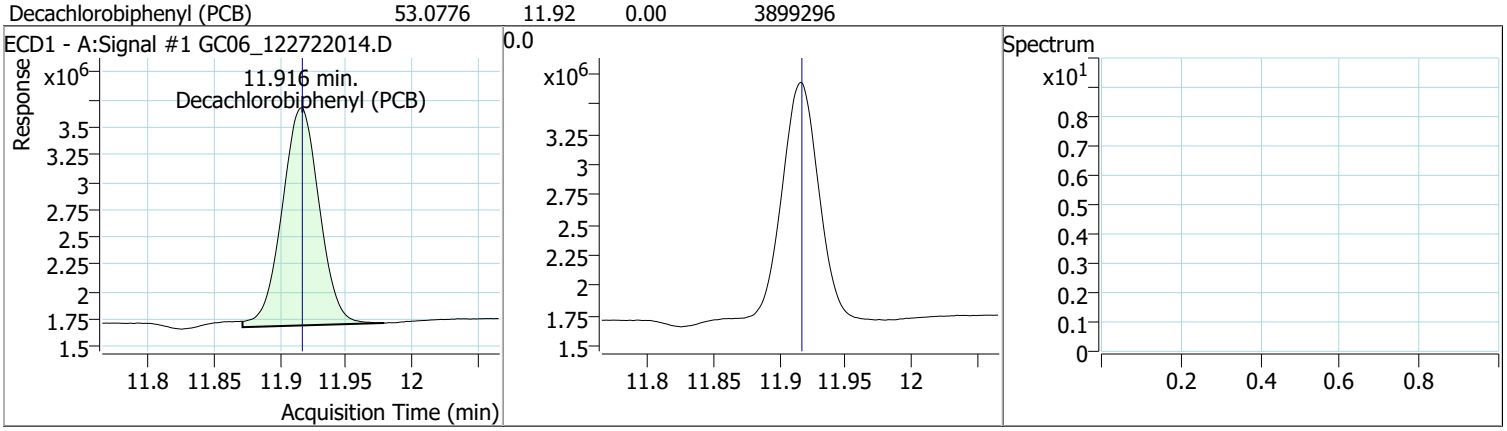
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	471.6723	11.00	0.00	6641202				



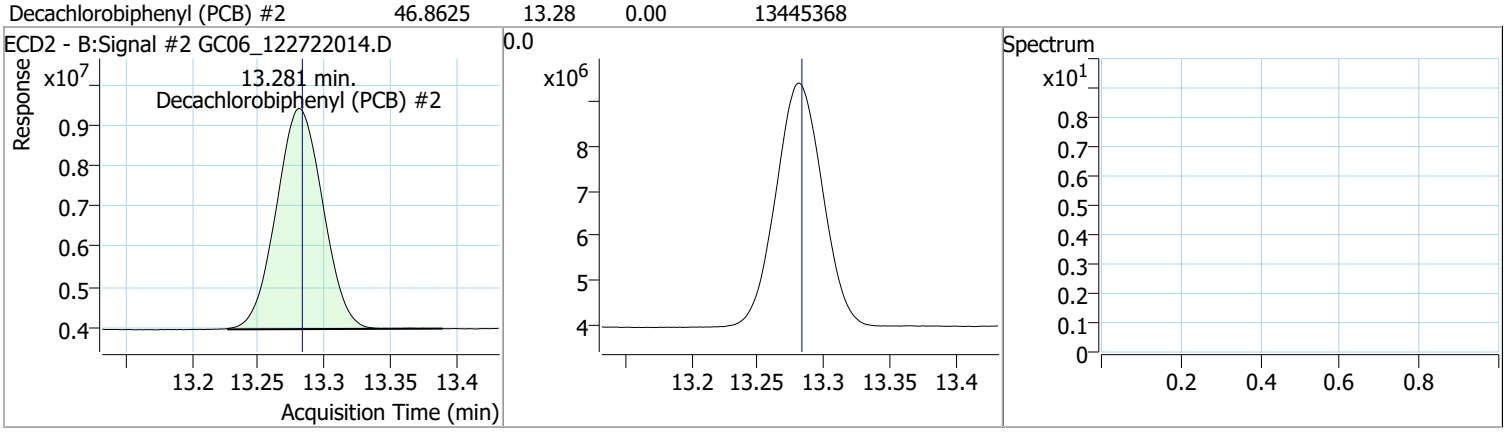
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	476.6540	11.67	0.00	10055540				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	53.0776	11.92	0.00	3899296				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	46.8625	13.28	0.00	13445368				



Initial Calibration Raw Data

ENTHALPY INITIAL CALIBRATION FOR 475743 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	gc06_102422014	452428510014		24-OCT-2022 17:26	S17263
L2	gc06_102422015	452428510015		24-OCT-2022 17:44	S17264
L3	gc06_102422016	452428510016		24-OCT-2022 18:02	S17265
L4	gc06_102422017	452428510017		24-OCT-2022 18:20	S17266
L5	gc06_102422018	452428510018		24-OCT-2022 18:38	S17267
L6	gc06_102422019	452428510019		24-OCT-2022 18:55	S17268
L7	gc06_102422020	452428510020		24-OCT-2022 19:13	S17269
L8	gc06_102422021	452428510021		24-OCT-2022 19:31	S17270
L9	gc06_102422022	452428510022		24-OCT-2022 19:49	S17271

Analyte	Ch	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Max %RSD	Flags
Aroclor-1016 Peak # 1	A	AVRG		47.6898		0.0210		15	9	.99	20	
Aroclor-1016 Peak # 2	A	LINR	-15.389	23.9841		0.0490	0.997		7	.99	20	
Aroclor-1016 Peak # 3	A	AVRG		18.8095		0.0532		15	9	.99	20	
Aroclor-1016 Peak # 4	A	AVRG		24.7311		0.0404		14	9	.99	20	
Aroclor-1016 Peak # 5	A	AVRG		30.7045		0.0326		15	9	.99	20	
Aroclor-1260 Peak # 1	A	AVRG		14.7882		0.0676		18	8	.99	20	
Aroclor-1260 Peak # 2	A	AVRG		9.70243		0.1031		17	8	.99	20	
Aroclor-1260 Peak # 3	A	AVRG		9.28268		0.1077		17	8	.99	20	
Aroclor-1260 Peak # 4	A	LINR	-15.439	17.5746		0.0643	0.998		7	.99	20	
Aroclor-1260 Peak # 5	A	LINR	-18.106	8.33830		0.1368	0.999		8	.99	20	
Decachlorobiphenyl (PCB)	A	LINR	-4.3231	0.82496		1.4080	0.999		6	.99	20	
TCMX (PCB)	A	AVRG		1.03996		0.9616		13	9	.99	20	
Aroclor-1016 Peak # 1	B	AVRG		48.1076		0.0208		13	9	.99	20	
Aroclor-1016 Peak # 2	B	AVRG		33.3260		0.0300		14	9	.99	20	
Aroclor-1016 Peak # 3	B	AVRG		18.3412		0.0545		16	9	.99	20	
Aroclor-1016 Peak # 4	B	AVRG		25.6912		0.0389		12	9	.99	20	
Aroclor-1016 Peak # 5	B	AVRG		31.6065		0.0316		13	9	.99	20	
Aroclor-1260 Peak # 1	B	AVRG		16.8009		0.0595		14	8	.99	20	
Aroclor-1260 Peak # 2	B	AVRG		13.9830		0.0715		15	8	.99	20	
Aroclor-1260 Peak # 3	B	AVRG		11.0470		0.0905		16	8	.99	20	
Aroclor-1260 Peak # 4	B	LINR	-23.653	20.1271		0.0597	0.996		7	.99	20	
Aroclor-1260 Peak # 5	B	LINR	-18.665	13.2930		0.0873	0.999		8	.99	20	
Decachlorobiphenyl (PCB)	B	LINR	-2.1138	0.98301		1.2084	0.999		8	.99	20	
TCMX (PCB)	B	AVRG		1.04112		0.9605		10	9	.99	20	

Instrument amount = a0 + (response × a1) + (response² × a2)
AVRG: Average response factor
LINR: Linear regression

ENTHALPY INITIAL CALIBRATION FOR 475743 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	L5 RF	L6 RF	L7 RF	L8 RF	L9 RF
Aroclor-1016 Peak # 1	A	0.0275	0.0229	0.0229	0.0213	0.0183	0.0203	0.0197	0.0189	0.0170
Aroclor-1016 Peak # 2	A	0.0705	0.0493	0.0498	0.0471	0.0402	0.0443	0.0419		
Aroclor-1016 Peak # 3	A	0.0694	0.0572	0.0577	0.0553	0.0469	0.0521	0.0499	0.0477	0.0422
Aroclor-1016 Peak # 4	A	0.0506	0.0443	0.0443	0.0420	0.0361	0.0399	0.0381	0.0367	0.0320
Aroclor-1016 Peak # 5	A	0.0417	0.0355	0.0355	0.0335	0.0292	0.0321	0.0306	0.0296	0.0253
Aroclor-1260 Peak # 1	A	0.0937	0.0726	0.0712	0.0675	0.0578	0.0620	0.0600	0.0564	
Aroclor-1260 Peak # 2	A	0.1377	0.1100	0.1119	0.1048	0.0901	0.0941	0.0896	0.0864	
Aroclor-1260 Peak # 3	A	0.1494	0.1089	0.1140	0.1083	0.0928	0.0997	0.0955	0.0931	
Aroclor-1260 Peak # 4	A	0.0776	0.0657	0.0680	0.0657	0.0561	0.0598	0.0571		
Aroclor-1260 Peak # 5	A	0.1719	0.1443	0.1523	0.1392	0.1178	0.1263	0.1212	0.1213	
Decachlorobiphenyl (PCB)	A			1.7517	1.5276	1.3136	1.3325	1.2692	1.2537	
TCMX (PCB)	A	1.2724	0.9655	0.9830	0.9621	0.8303	0.9420	0.9219	0.9218	0.8552
Aroclor-1016 Peak # 1	B	0.0258	0.0224	0.0221	0.0217	0.0189	0.0208	0.0199	0.0188	0.0168
Aroclor-1016 Peak # 2	B	0.0369	0.0328	0.0337	0.0319	0.0262	0.0293	0.0282	0.0270	0.0241
Aroclor-1016 Peak # 3	B	0.0731	0.0591	0.0595	0.0548	0.0476	0.0526	0.0506	0.0504	0.0429
Aroclor-1016 Peak # 4	B	0.0470	0.0426	0.0424	0.0410	0.0348	0.0383	0.0370	0.0362	0.0311
Aroclor-1016 Peak # 5	B	0.0389	0.0336	0.0345	0.0334	0.0285	0.0314	0.0302	0.0296	0.0248
Aroclor-1260 Peak # 1	B	0.0741	0.0638	0.0673	0.0608	0.0510	0.0551	0.0527	0.0514	
Aroclor-1260 Peak # 2	B	0.0910	0.0798	0.0790	0.0726	0.0608	0.0651	0.0625	0.0613	
Aroclor-1260 Peak # 3	B	0.1187	0.0977	0.0986	0.0907	0.0769	0.0826	0.0797	0.0793	
Aroclor-1260 Peak # 4	B	0.0785	0.0629	0.0647	0.0583	0.0503	0.0539	0.0496		
Aroclor-1260 Peak # 5	B	0.1184	0.0925	0.0953	0.0868	0.0743	0.0790	0.0760	0.0762	
Decachlorobiphenyl (PCB)	B	1.6271	1.2663	1.3495	1.2170	1.0610	1.0826	1.0310	1.0324	
TCMX (PCB)	B	1.1603	0.9978	0.9817	0.9671	0.8301	0.9599	0.9328	0.9461	0.8687

ENTHALPY INITIAL CALIBRATION FOR 475743 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D	L5	%D	L6	%D	L7	%D	L8	%D
Aroclor-1016 Peak # 1	A	20.000	**31**	50.000	9	100.00	9	250.00	1	500.00	-13	749.91	-3	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 2	A	20.000	-8	50.000	-12	100.00	4	250.00	7	500.00	-7	749.91	4	1000.0	-1		
Aroclor-1016 Peak # 3	A	20.000	**31**	50.000	8	100.00	9	250.00	4	500.00	-12	749.91	-2	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 4	A	20.000	**25**	50.000	10	100.00	10	250.00	4	500.00	-11	749.91	-1	1000.0	-6	1500.0	-9
Aroclor-1016 Peak # 5	A	20.000	**28**	50.000	9	100.00	9	250.00	3	500.00	-10	749.91	-1	1000.0	-6	1500.0	-9
Aroclor-1260 Peak # 1	A	20.000	**38**	50.000	7	100.00	5	250.00	0	500.00	-15	749.91	-8	1000.0	-11	1500.0	-17
Aroclor-1260 Peak # 2	A	20.000	**34**	50.000	7	100.00	9	250.00	2	500.00	-13	749.91	-9	1000.0	-13	1500.0	-16
Aroclor-1260 Peak # 3	A	20.000	**39**	50.000	1	100.00	6	250.00	1	500.00	-14	749.91	-7	1000.0	-11	1500.0	-14
Aroclor-1260 Peak # 4	A	20.000	**-41**	50.000	-15	100.00	4	250.00	9	500.00	-4	749.91	3	1000.0	-1		
Aroclor-1260 Peak # 5	A	20.000	**-47**	50.000	-16	100.00	9	250.00	9	500.00	-5	749.91	3	1000.0	-1	1500.0	0
Decachlorobiphenyl (PCB)	A					8.0000	-10	20.000	4	40.000	-2	59.993	3	80.000	-1	120.00	0
TCMX (PCB)	A	1.6000	**32**	4.0000	0	8.0000	2	20.000	0	40.000	-14	59.993	-2	80.000	-4	120.00	-4
Aroclor-1016 Peak # 1	B	20.000	**24**	50.000	8	100.00	6	250.00	4	500.00	-9	749.91	0	1000.0	-4	1500.0	-10
Aroclor-1016 Peak # 2	B	20.000	**23**	50.000	9	100.00	12	250.00	6	500.00	-13	749.91	-2	1000.0	-6	1500.0	-10
Aroclor-1016 Peak # 3	B	20.000	**34**	50.000	8	100.00	9	250.00	1	500.00	-13	749.91	-4	1000.0	-7	1500.0	-8
Aroclor-1016 Peak # 4	B	20.000	**21**	50.000	9	100.00	9	250.00	5	500.00	-11	749.91	-2	1000.0	-5	1500.0	-7
Aroclor-1016 Peak # 5	B	20.000	**23**	50.000	6	100.00	9	250.00	5	500.00	-10	749.91	-1	1000.0	-5	1500.0	-6
Aroclor-1260 Peak # 1	B	20.000	**24**	50.000	7	100.00	13	250.00	2	500.00	-14	749.91	-7	1000.0	-11	1500.0	-14
Aroclor-1260 Peak # 2	B	20.000	**27**	50.000	12	100.00	11	250.00	2	500.00	-15	749.91	-9	1000.0	-13	1500.0	-14
Aroclor-1260 Peak # 3	B	20.000	**31**	50.000	8	100.00	9	250.00	0	500.00	-15	749.91	-9	1000.0	-12	1500.0	-12
Aroclor-1260 Peak # 4	B	20.000	**-60**	50.000	**-21**	100.00	7	250.00	8	500.00	-4	749.91	5	1000.0	-3		
Aroclor-1260 Peak # 5	B	20.000	**-36**	50.000	-14	100.00	8	250.00	8	500.00	-5	749.91	3	1000.0	-1	1500.0	0
Decachlorobiphenyl (PCB)	B	1.6000	**-72**	4.0000	**-28**	8.0000	6	20.000	9	40.000	-1	59.993	3	80.000	-1	120.00	0
TCMX (PCB)	B	1.6000	**21**	4.0000	4	8.0000	2	20.000	1	40.000	-14	59.993	0	80.000	-3	120.00	-1

ENTHALPY INITIAL CALIBRATION FOR 475743 PCBS Wipe: EPA 8082

Instrument:	SVOA-GC06	Name:	PCB_102422_1
Calibration #:	452428510002	Date:	24-OCT-2022 17:26
Units:	ug/L	X Axis:	R

Spiked Amounts / Drifts	Ch	L9	%D
Aroclor-1016 Peak # 1	A	2000.0	-19
Aroclor-1016 Peak # 2	A		
Aroclor-1016 Peak # 3	A	2000.0	**-21**
Aroclor-1016 Peak # 4	A	2000.0	**-21**
Aroclor-1016 Peak # 5	A	2000.0	**-22**
Aroclor-1260 Peak # 1	A		
Aroclor-1260 Peak # 2	A		
Aroclor-1260 Peak # 3	A		
Aroclor-1260 Peak # 4	A		
Aroclor-1260 Peak # 5	A		
Decachlorobiphenyl (PCB)	A		
TCMX (PCB)	A	160.00	-11
Aroclor-1016 Peak # 1	B	2000.0	-19
Aroclor-1016 Peak # 2	B	2000.0	-20
Aroclor-1016 Peak # 3	B	2000.0	**-21**
Aroclor-1016 Peak # 4	B	2000.0	-20
Aroclor-1016 Peak # 5	B	2000.0	**-22**
Aroclor-1260 Peak # 1	B		
Aroclor-1260 Peak # 2	B		
Aroclor-1260 Peak # 3	B		
Aroclor-1260 Peak # 4	B		
Aroclor-1260 Peak # 5	B		
Decachlorobiphenyl (PCB)	B		
TCMX (PCB)	B	160.00	-10

TRN 10/26/22 : Manually integrated for coeluting peak/draw baseline on both channel for multiple channels

Analyst: TRN 10/26/22

Reviewer: LW 10/27/22

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 475743 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06	Name:	PCB_102422_1
Calnum:	452428510002	Cal Date:	24-OCT-2022

- ICV 452428510024 (gc06_102422024 24-OCT-2022) stds: S17274

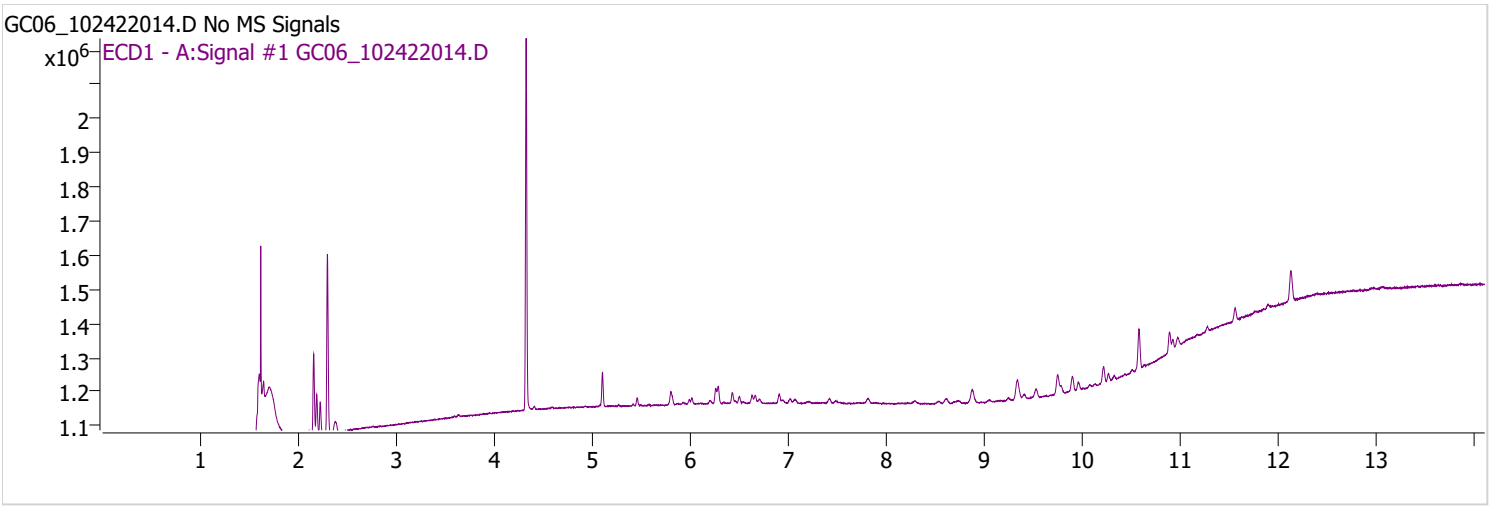
Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Aroclor-1016	A	500.0	486.9	ug/L	-3	15	
Aroclor-1260	A	500.0	451.5	ug/L	-10	15	
Aroclor-1016	B	500.0	481.3	ug/L	-4	15	
Aroclor-1260	B	500.0	455.3	ug/L	-9	15	

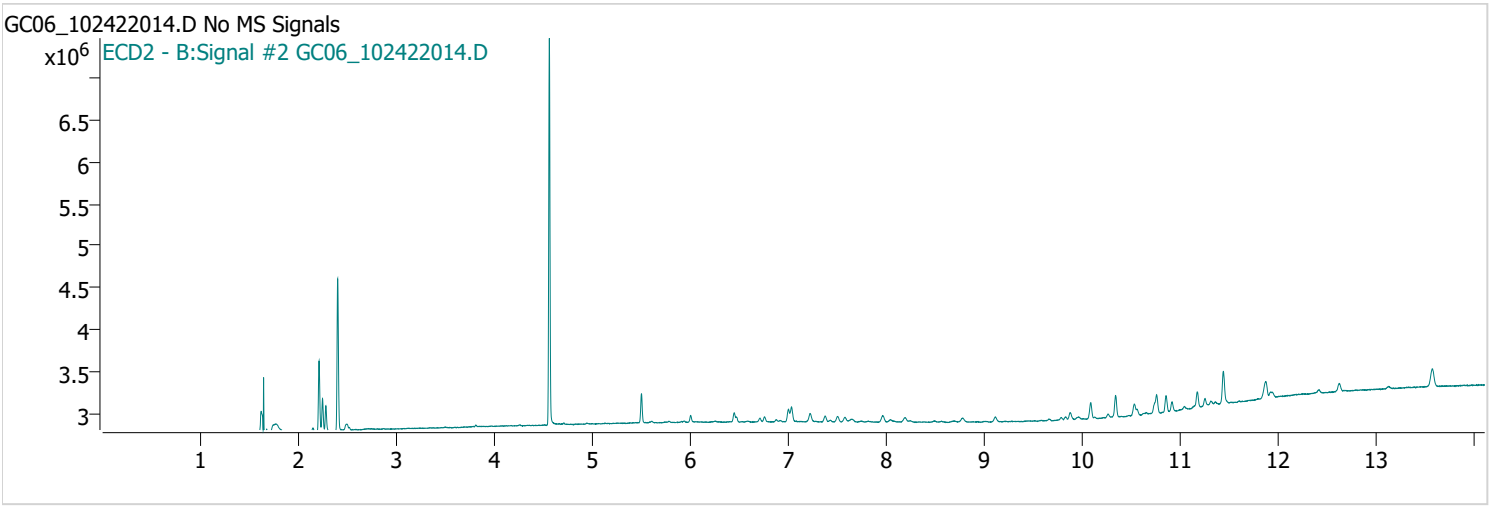
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Analyst: TRN 10/26/22 **Reviewer:** LW 10/27/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_102422014.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 5:26:16 PM
Sample Name	ICAL, S17263	Instrument	SVOA-GC06
Vial	11	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



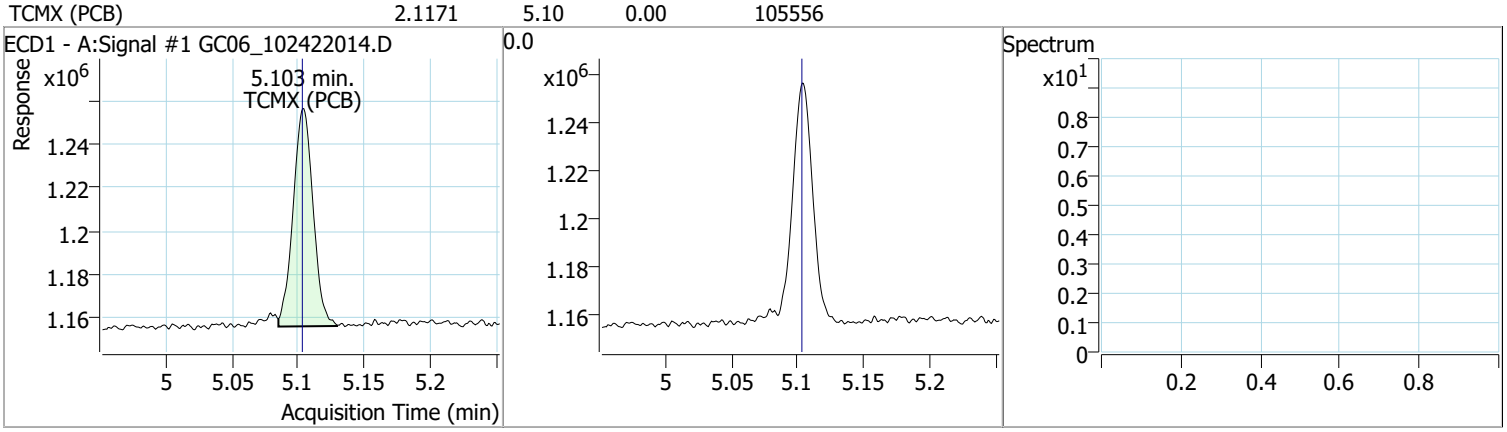


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.324	0.0	1037016.219	20.0000	ng/ml		-0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	4201953.160	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	105555.954	2.1171	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 10.59%		*	
S TCMX (PCB) #2	5.502	0.0	390058.222	1.9329	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 9.66%		*	
S Decachlorobiphenyl (PCB)	12.133	0.0	184176.168	0.0000	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 0.00%		*	
S Decachlorobiphenyl (PCB) #2	13.576	0.0	546954.440	0.4459	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 2.23%		*	
Target Compounds							**QValue**
T AR1016 1	5.458	0.0	28480.322	26.1951	ng/ml		100
T AR1016 2	5.802	0.0	73071.976	18.4116	ng/ml		100
T AR1016 1 #2	6.004	0.0	108525.199	24.8502	ng/ml		100

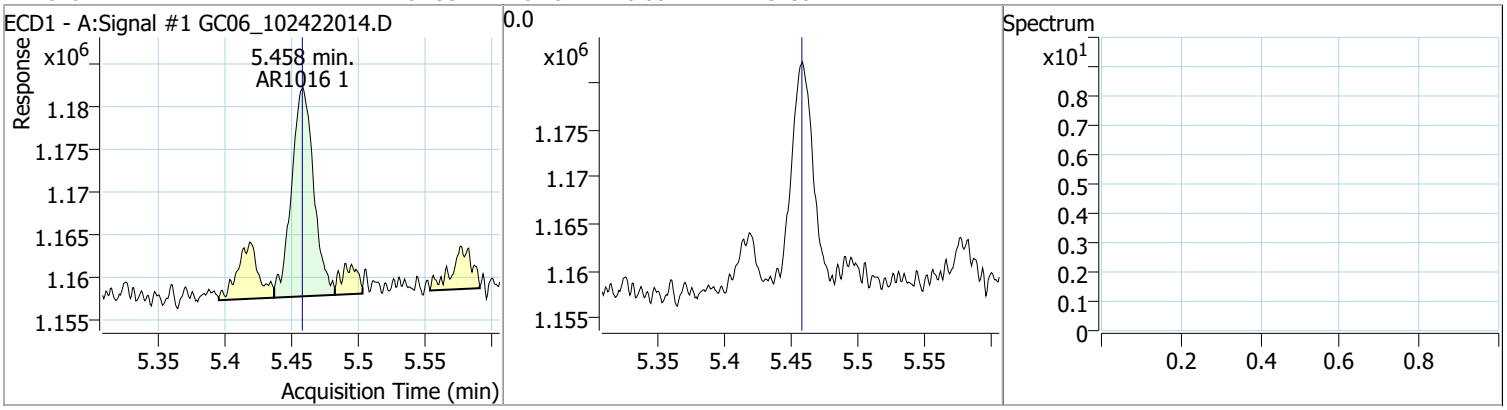
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 3	6.285	0.0	71957.123	26.1037	ng/ml		100
T AR1016 4	6.430	0.0	52488.922	25.0358	ng/ml	m	100
T AR1016 2 #2	6.449	0.0	154975.476	24.5828	ng/ml		100
T AR1016 5	6.908	0.0	43274.534	25.6262	ng/ml		100
T AR1016 3 #2	7.033	0.0	307317.024	26.8286	ng/ml		100
T AR1016 4 #2	7.223	0.0	197434.079	24.1430	ng/ml		100
T AR1016 5 #2	7.966	0.0	163277.665	24.5634	ng/ml		100
T AR1260 1	8.881	0.0	97121.012	27.7000	ng/ml		100
T AR1260 2	9.339	0.0	142815.316	26.7243	ng/ml		100
T AR1260 3	9.751	0.0	154959.969	27.7424	ng/ml	m	100
T AR1260 1 #2	10.089	0.0	311262.229	24.8911	ng/ml		100
T AR1260 4	10.220	0.0	80435.978	11.8240	ng/ml		100
T AR1260 2 #2	10.342	0.0	382187.365	25.4368	ng/ml		100
T AR1260 5	10.581	0.0	178298.760	10.5736	ng/ml		100
T AR1260 3 #2	10.761	0.0	498567.492	26.2151	ng/ml		100
T AR1260 4 #2	11.176	0.0	329727.817	7.9351	ng/ml		100
T AR1260 5 #2	11.876	0.0	497381.031	12.8115	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

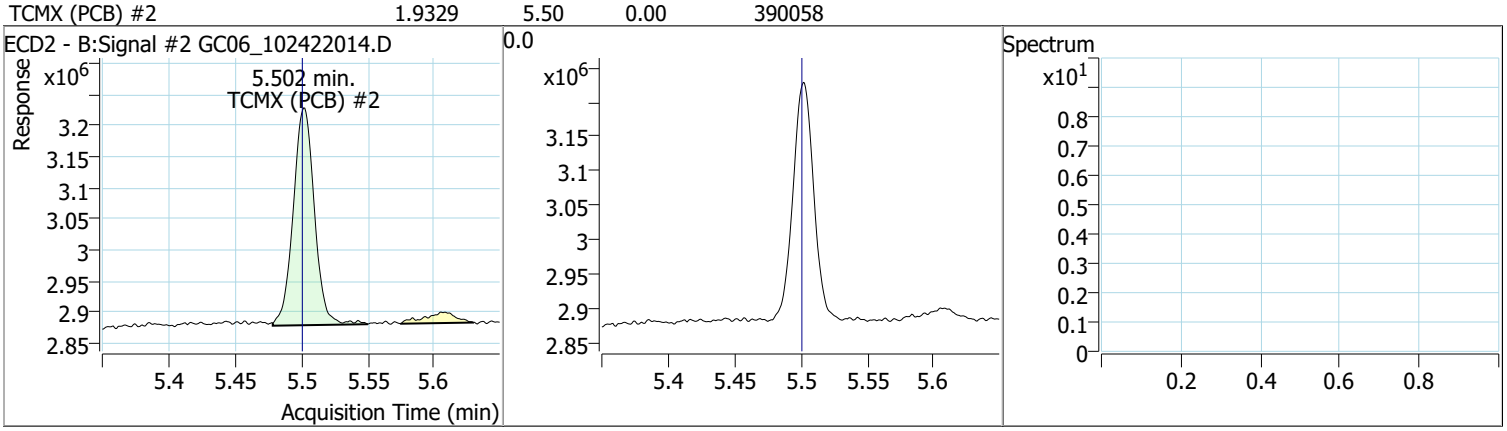
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	2.1171	5.10	0.00	105556				



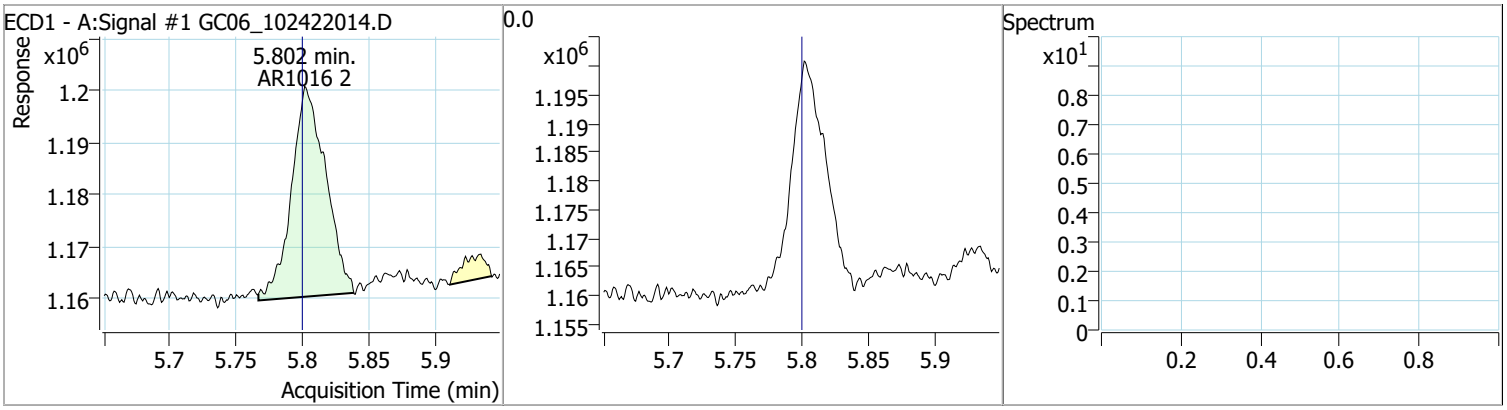
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	26.1951	5.46	0.00	28480				



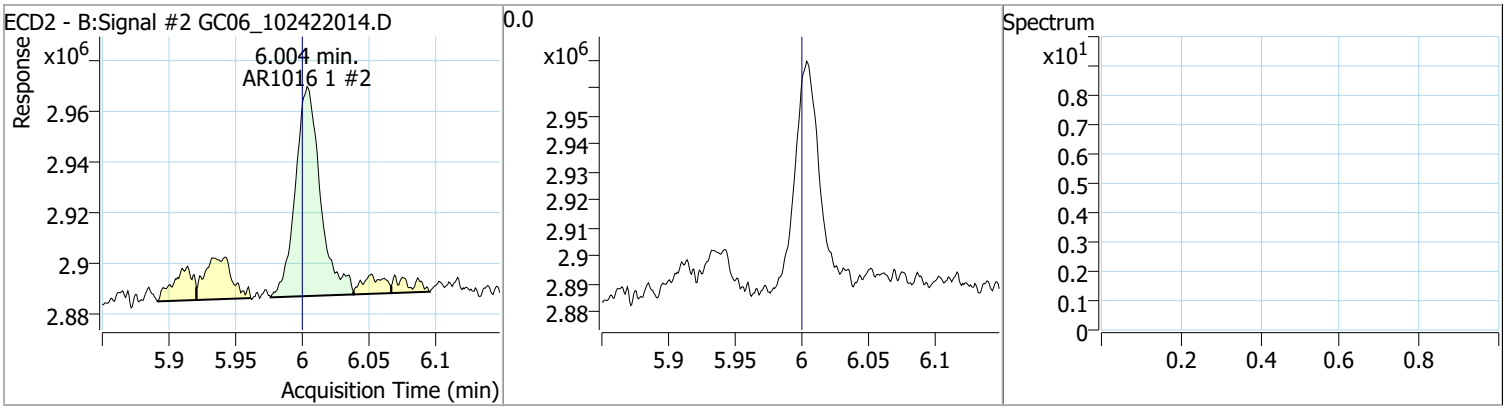
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	1.9329	5.50	0.00	390058				



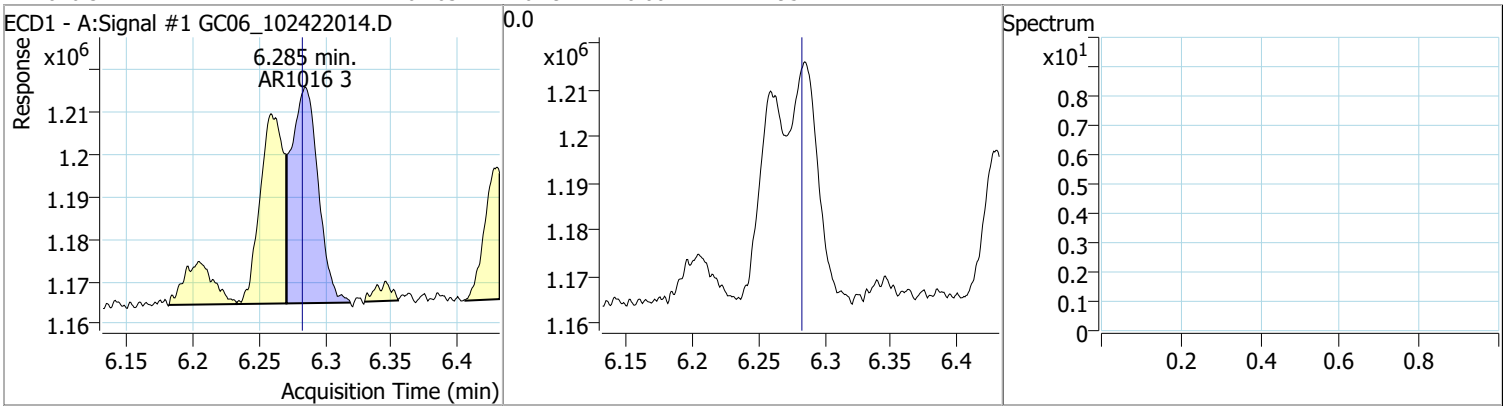
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	18.4116	5.80	0.00	73072				



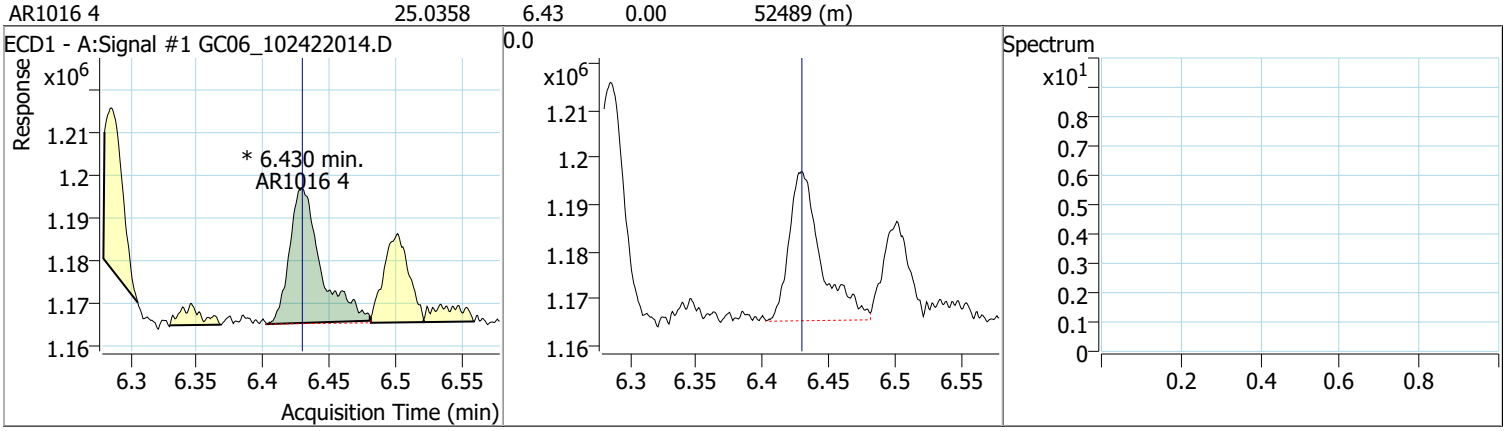
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	24.8502	6.00	0.00	108525				



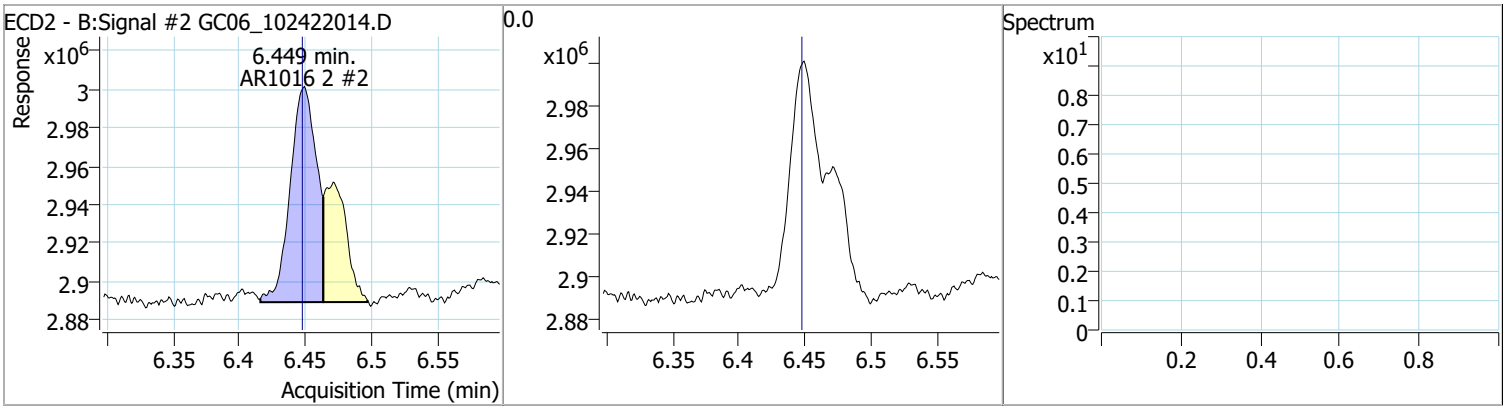
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	26.1037	6.29	0.00	71957				



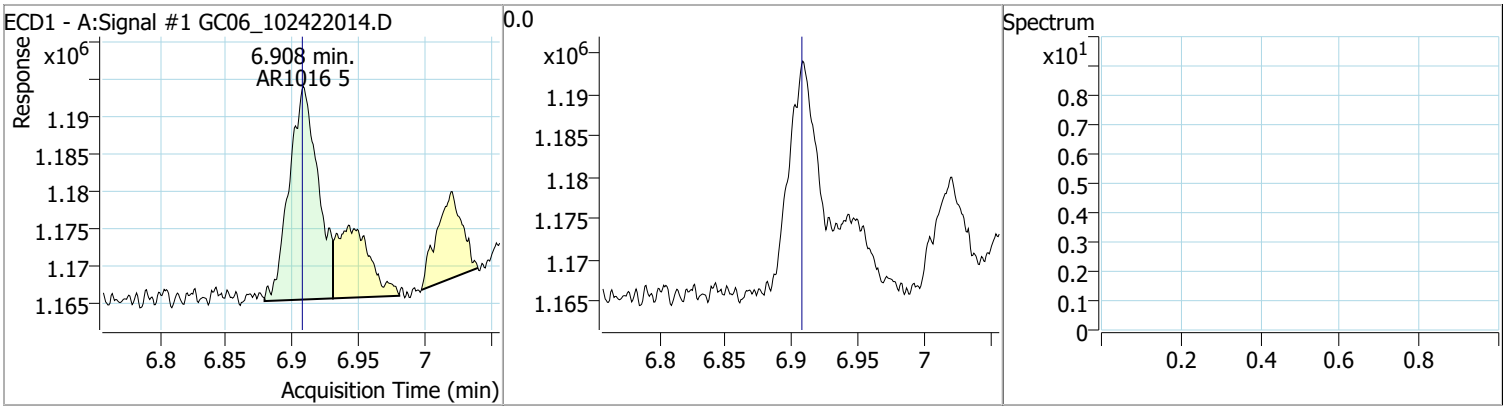
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	25.0358	6.43	0.00	52489 (m)				



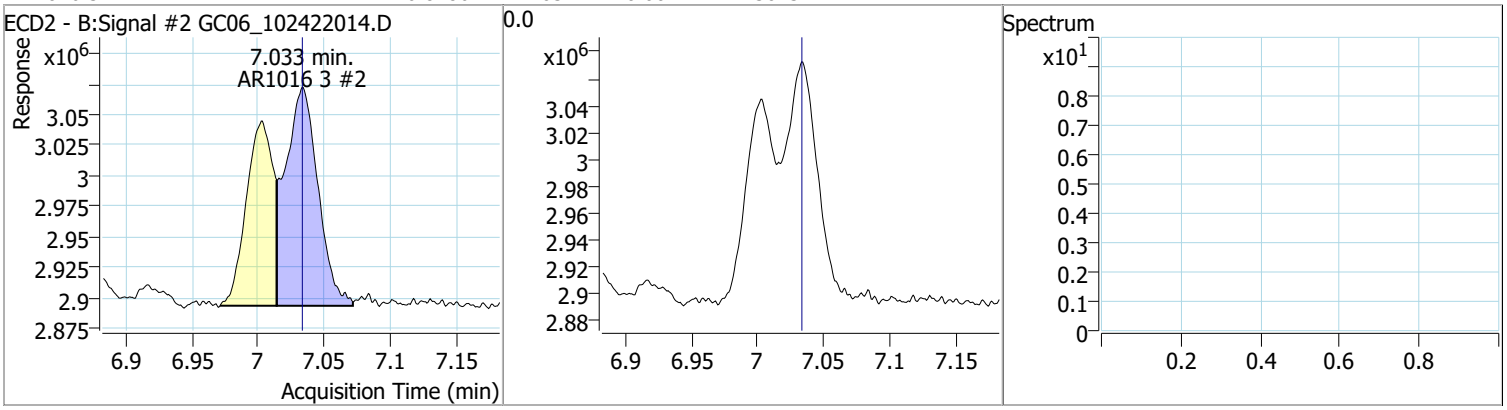
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	24.5828	6.45	0.00	154975				



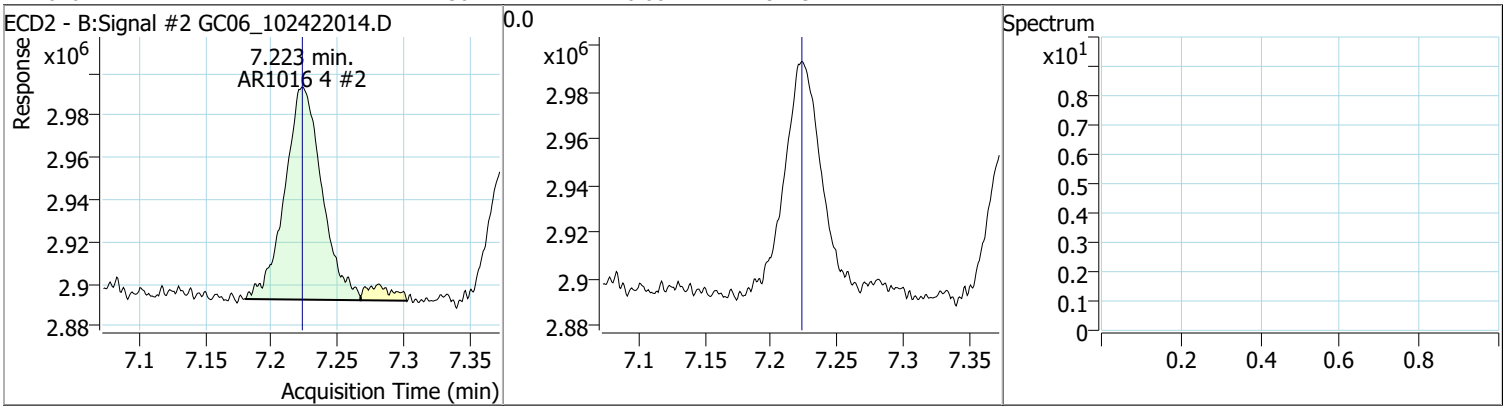
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	25.6262	6.91	0.00	43275				



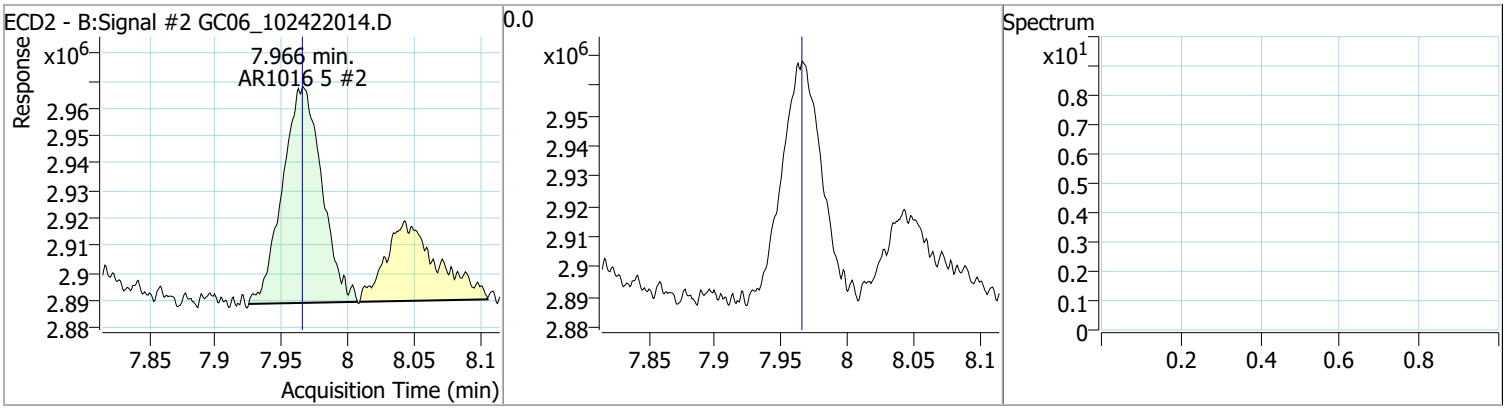
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AR1016 3 #2	26.8286	7.03	0.00	307317				



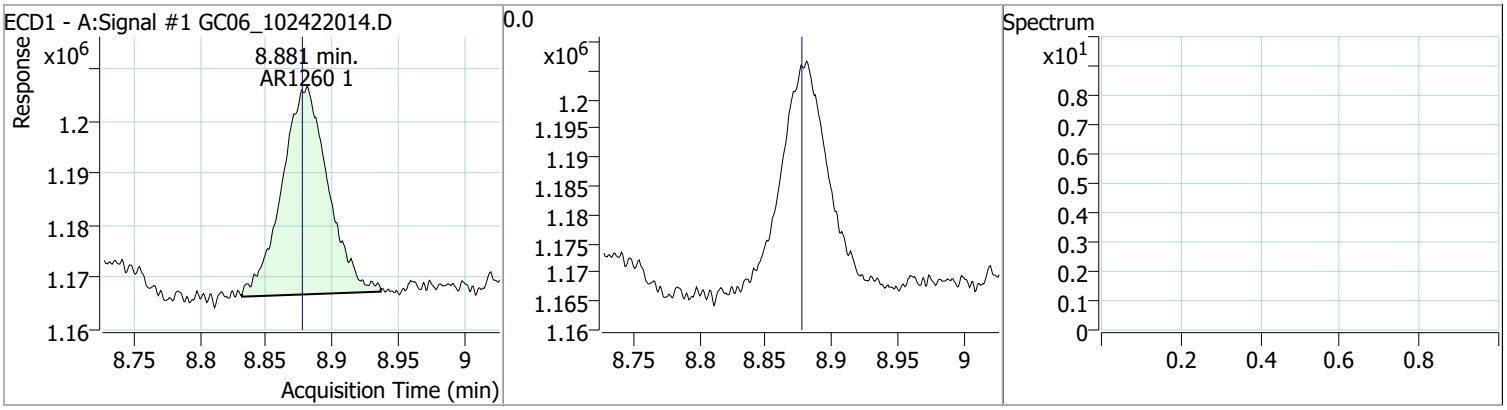
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AR1016 4 #2	24.1430	7.22	0.00	197434				



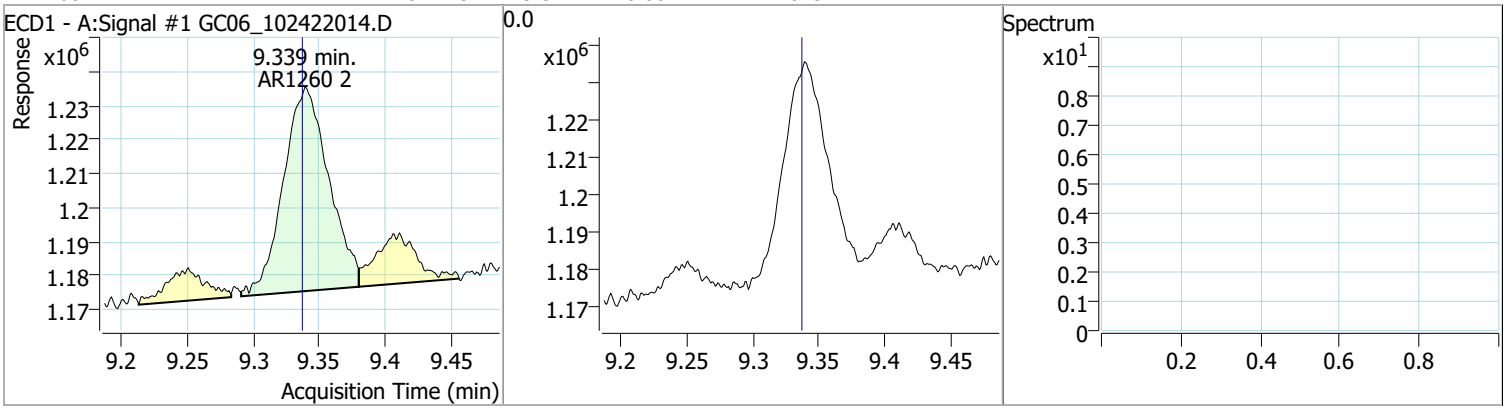
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	24.5634	7.97	0.00	163278				



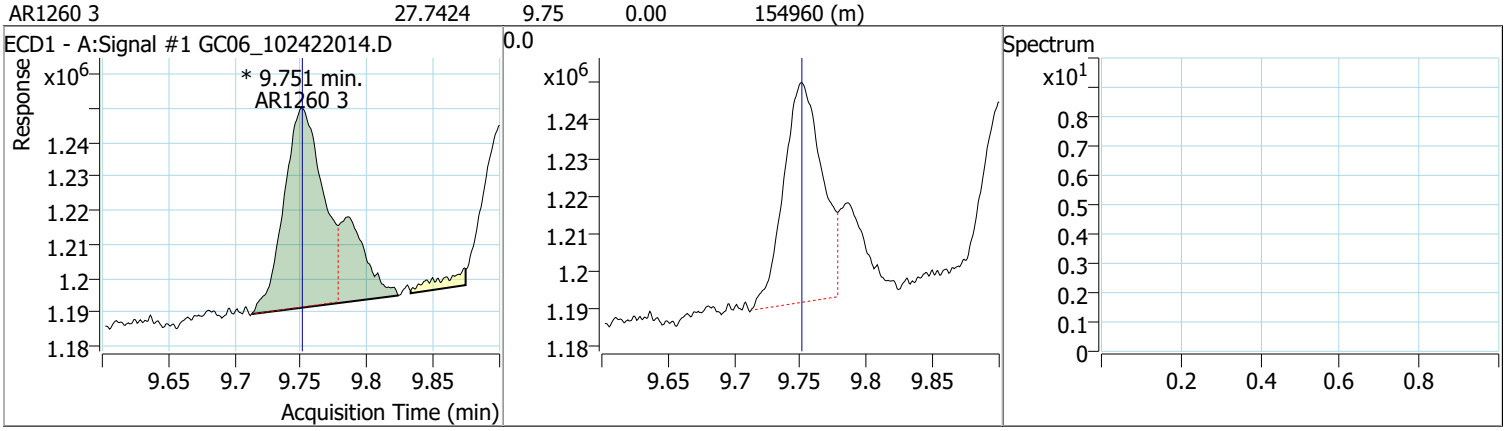
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	27.7000	8.88	0.00	97121				



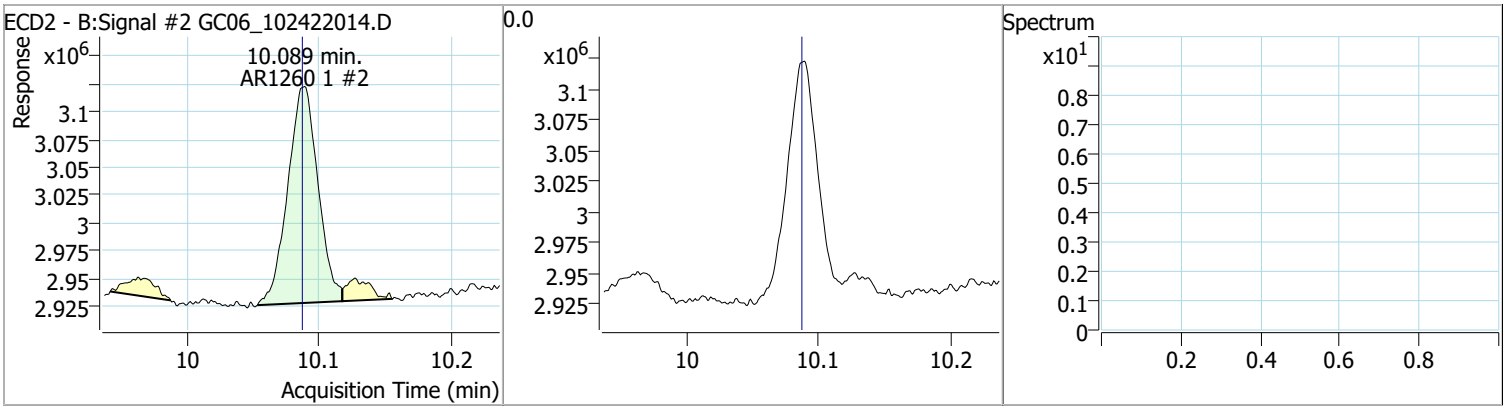
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	26.7243	9.34	0.00	142815				



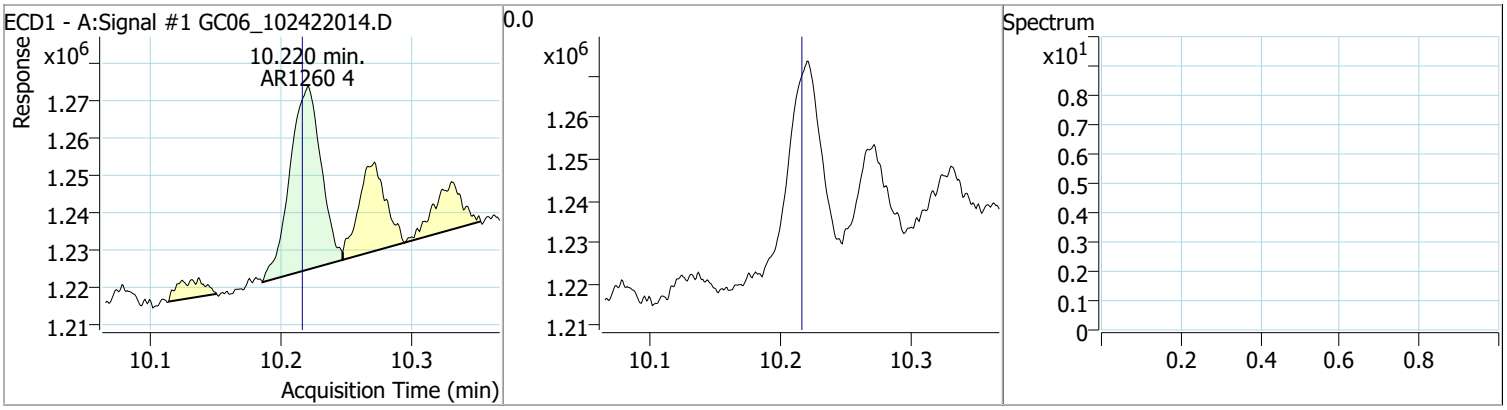
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	27.7424	9.75	0.00	154960 (m)				



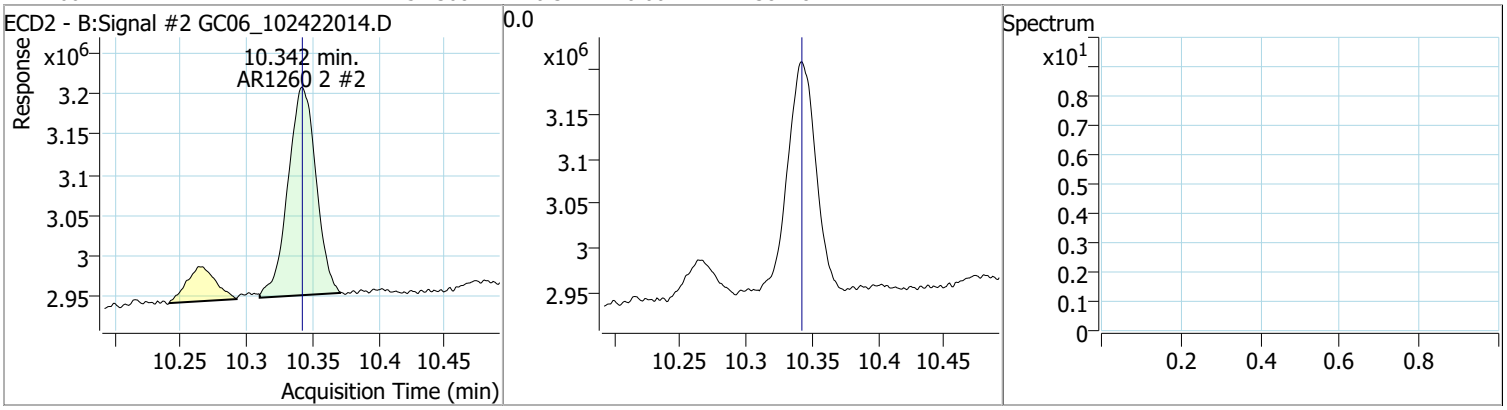
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	24.8911	10.09	0.00	311262				



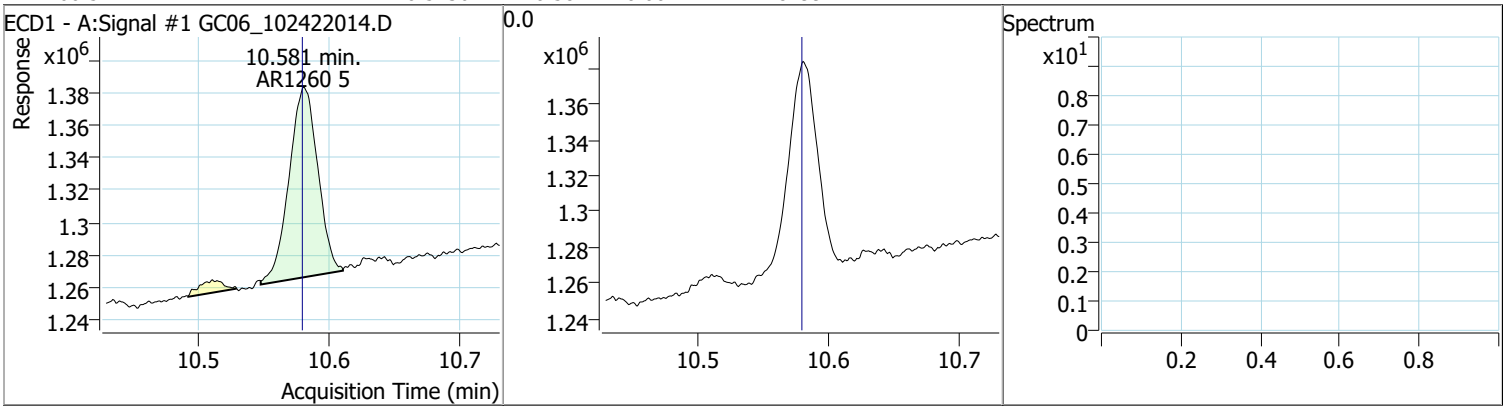
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	11.8240	10.22	0.00	80436				



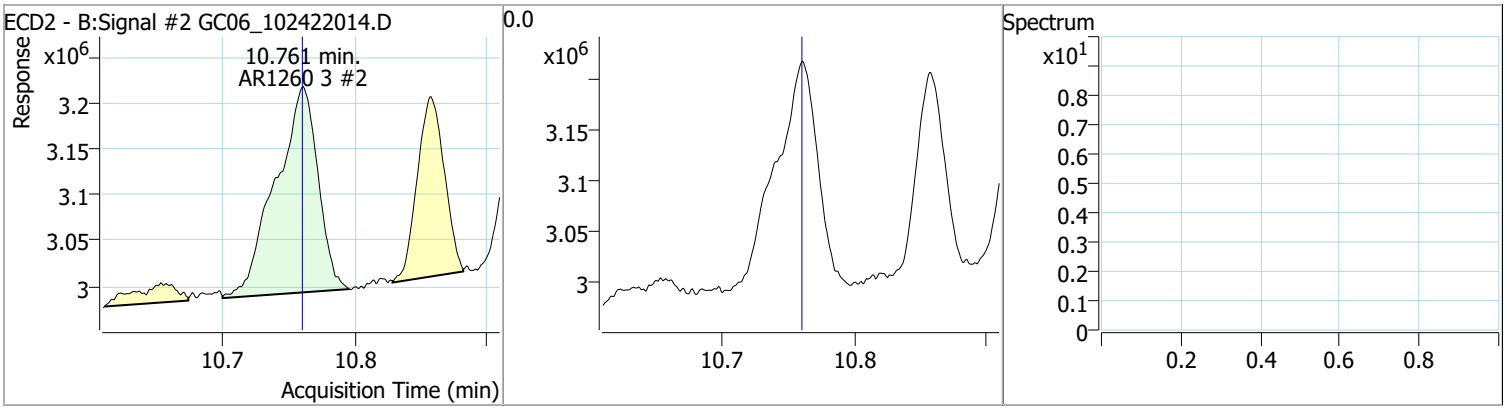
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	25.4368	10.34	0.00	382187				



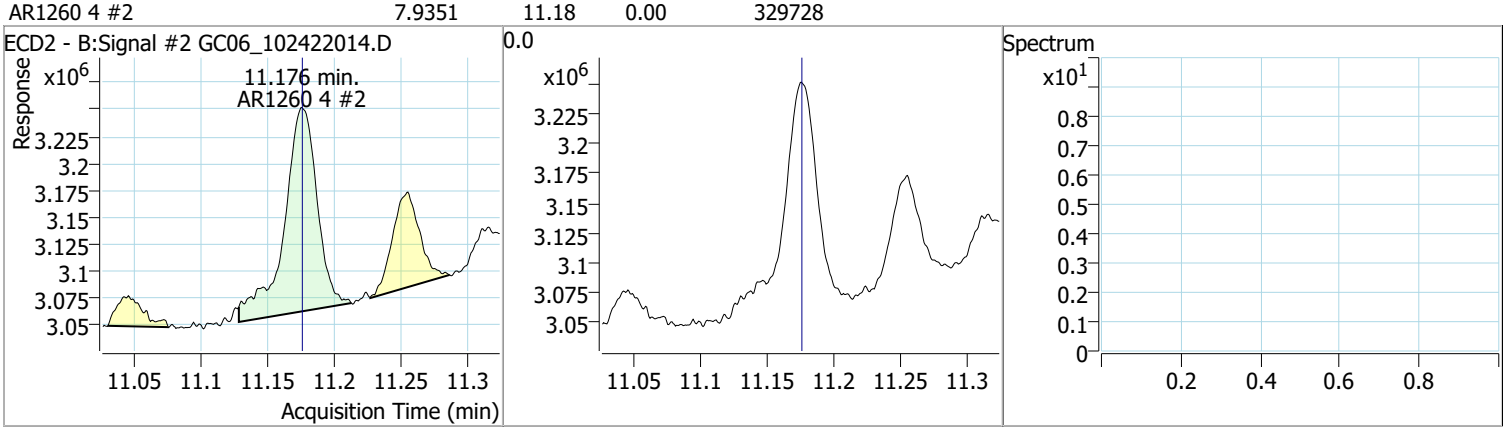
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	10.5736	10.58	0.00	178299				



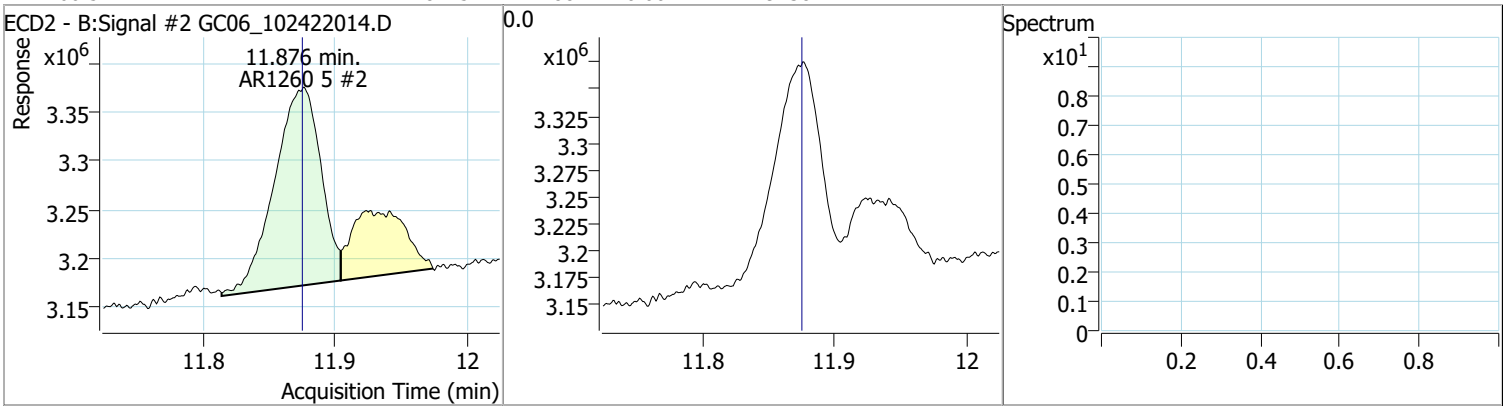
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	26.2151	10.76	0.00	498567				



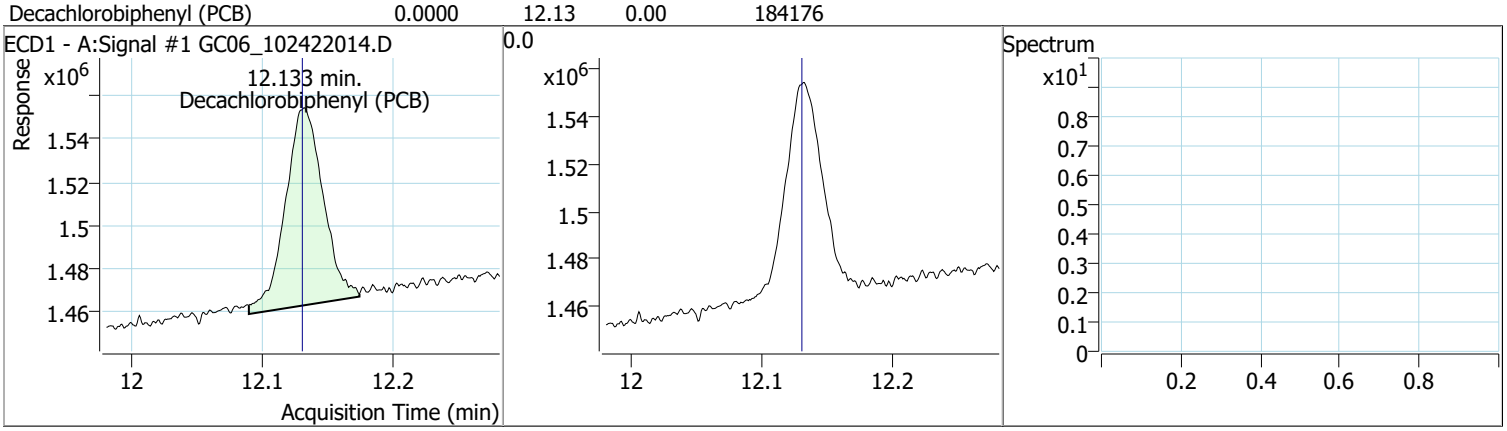
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	7.9351	11.18	0.00	329728				



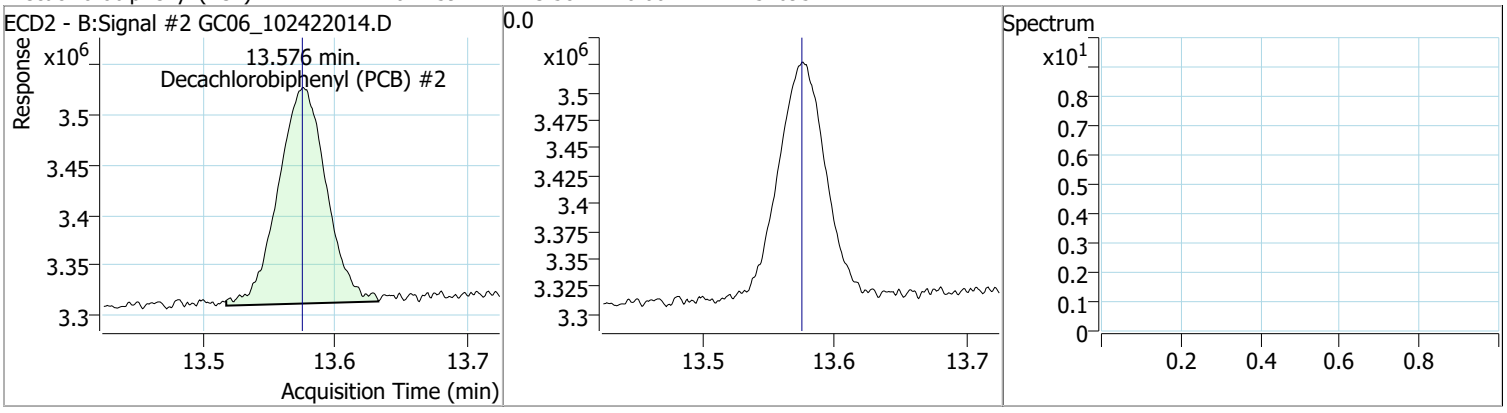
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	12.8115	11.88	0.00	497381				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	0.0000	12.13	0.00	184176				

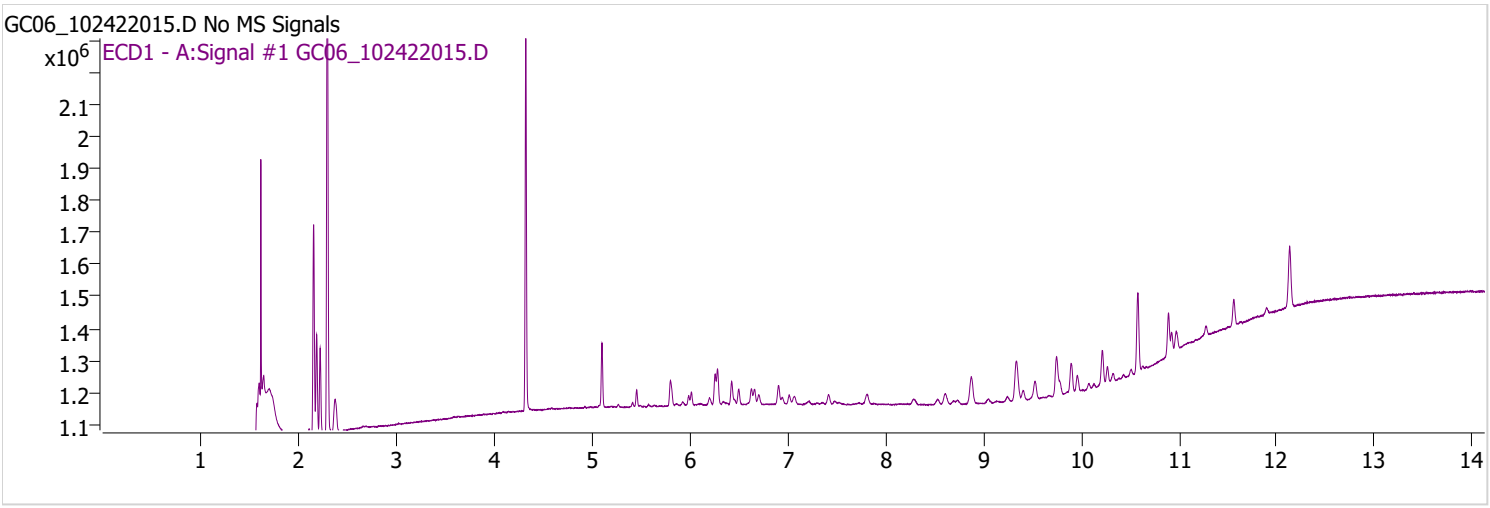


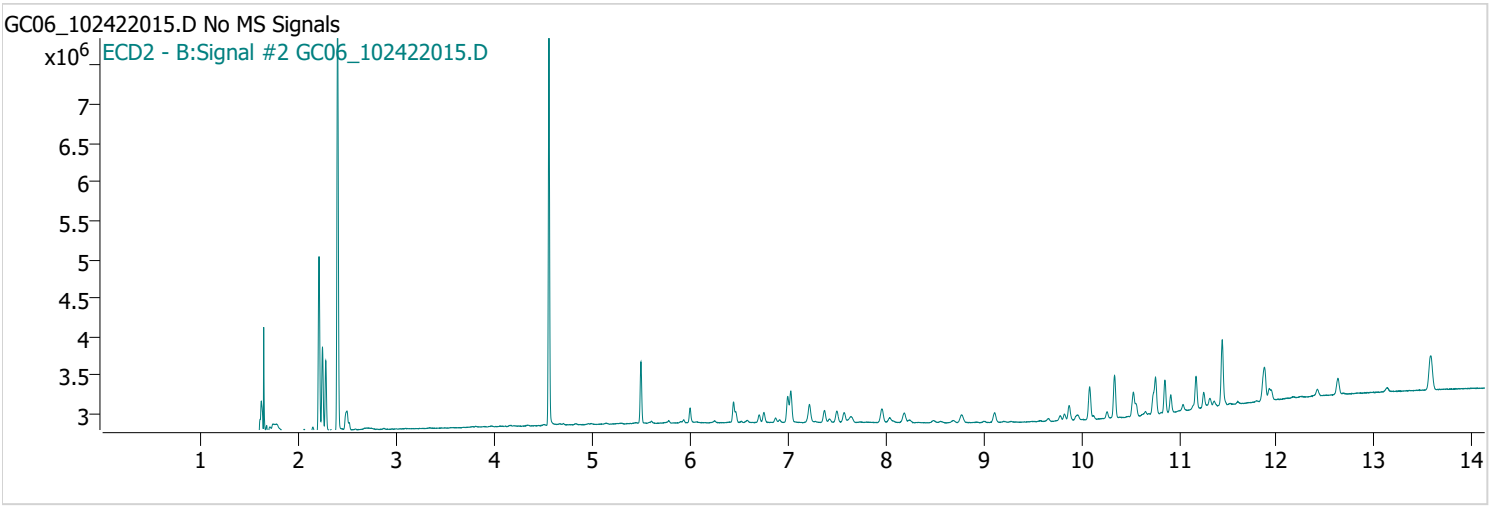
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	0.4459	13.58	0.00	546954				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422015.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 5:44:04 PM
Sample Name	ICAL, S17264	Instrument	SVOA-GC06
Vial	12	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



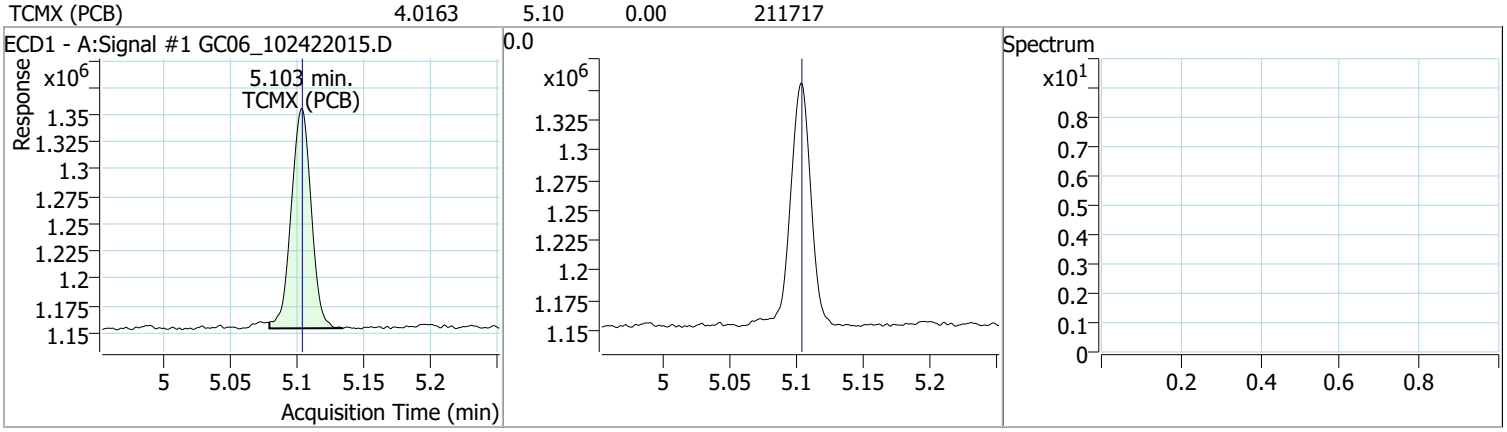


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1096423.491	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	4414084.352	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	211717.395	4.0163	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.08%		*	
S TCMX (PCB) #2	5.502	0.0	880844.251	4.1552	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 20.78%		*	
S Decachlorobiphenyl (PCB)	12.132	0.0	366663.673	1.1956	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 5.98%		*	
S Decachlorobiphenyl (PCB) #2	13.575	0.0	1117873.667	2.8657	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 14.33%		*	
Target Compounds							QValue
T AR1016 1	5.458	0.0	62800.739	54.6321	ng/ml		100
T AR1016 2	5.803	0.0	135262.778	43.7895	ng/ml		100

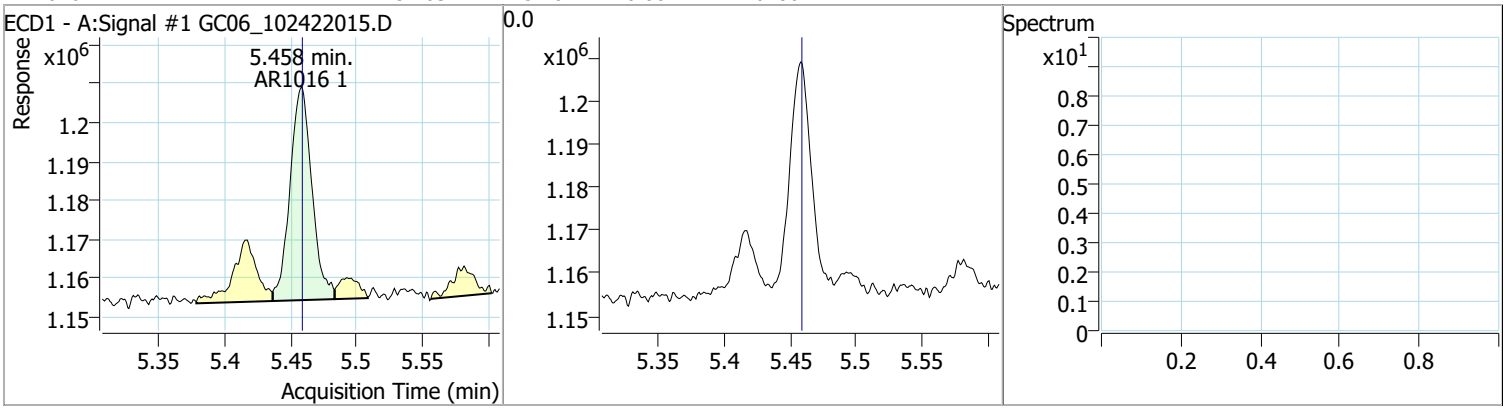
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1 #2	6.004	0.0	246736.718	53.7828	ng/ml		100
T AR1016 3	6.284	0.0	156745.895	53.7814	ng/ml		100
T AR1016 4	6.429	0.0	121378.176	54.7573	ng/ml	m	100
T AR1016 2 #2	6.448	0.0	361879.943	54.6441	ng/ml	m	100
T AR1016 5	6.907	0.0	97415.221	54.5615	ng/ml		100
T AR1016 3 #2	7.033	0.0	652565.398	54.2308	ng/ml		100
T AR1016 4 #2	7.223	0.0	469712.957	54.6779	ng/ml		100
T AR1016 5 #2	7.964	0.0	370461.655	53.0536	ng/ml		100
T AR1260 1	8.878	0.0	198864.945	53.6454	ng/ml		100
T AR1260 2	9.339	0.0	301488.499	53.3592	ng/ml		100
T AR1260 3	9.749	0.0	298525.793	50.5491	ng/ml		100
T AR1260 1 #2	10.088	0.0	703926.868	53.5865	ng/ml		100
T AR1260 4	10.215	0.0	180050.819	42.2826	ng/ml		100
T AR1260 2 #2	10.342	0.0	881097.856	55.8239	ng/ml		100
T AR1260 5	10.580	0.0	395492.284	42.0555	ng/ml		100
T AR1260 3 #2	10.760	0.0	1078261.882	53.9712	ng/ml		100
T AR1260 4 #2	11.174	0.0	694396.452	39.6741	ng/ml		100
T AR1260 5 #2	11.873	0.0	1020309.367	42.7953	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

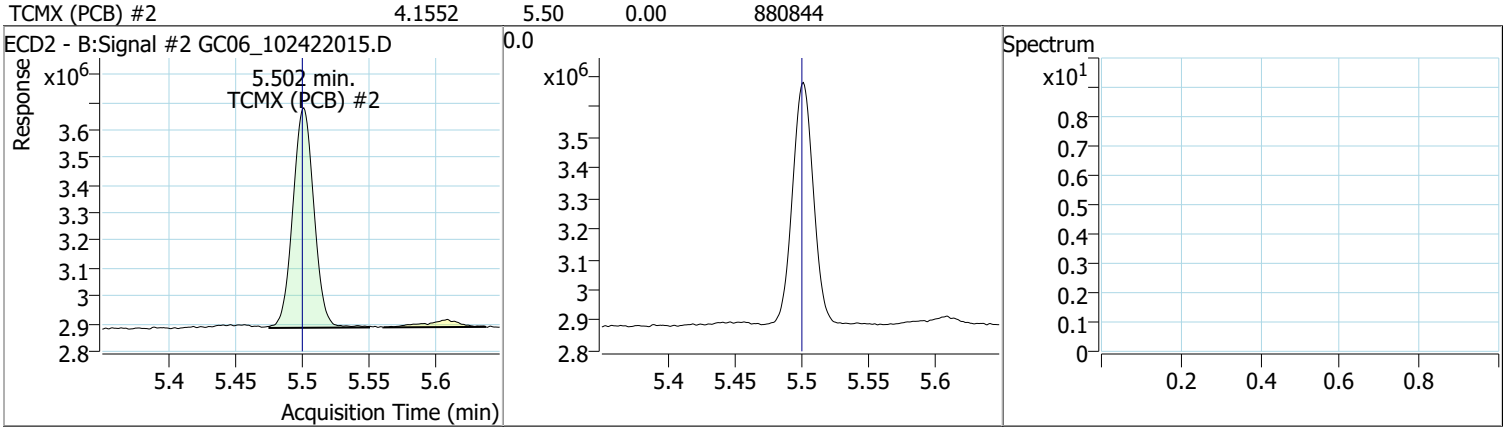
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	4.0163	5.10	0.00	211717				



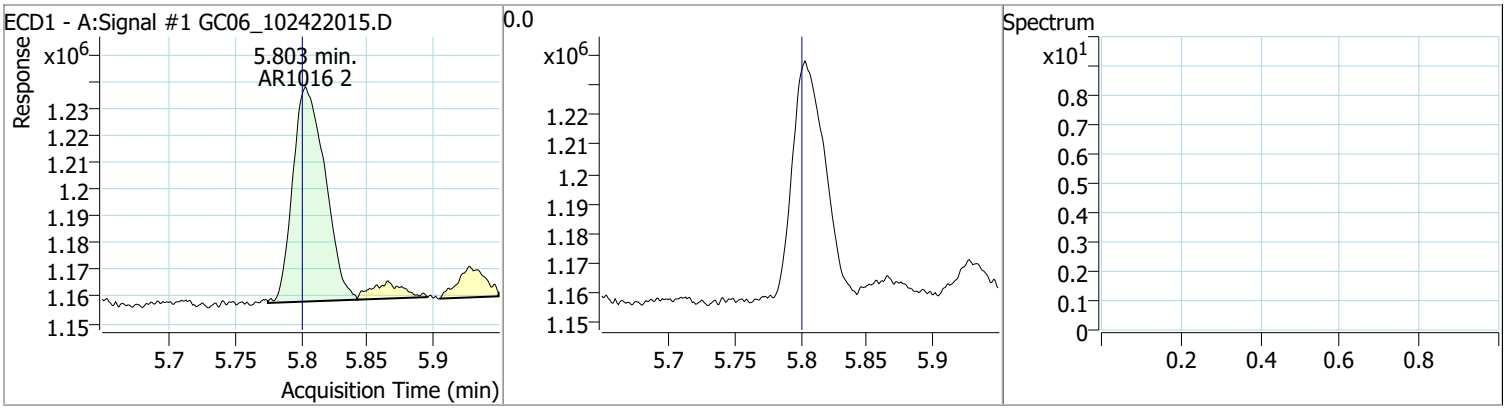
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AR1016 1	54.6321	5.46	0.00	62801				



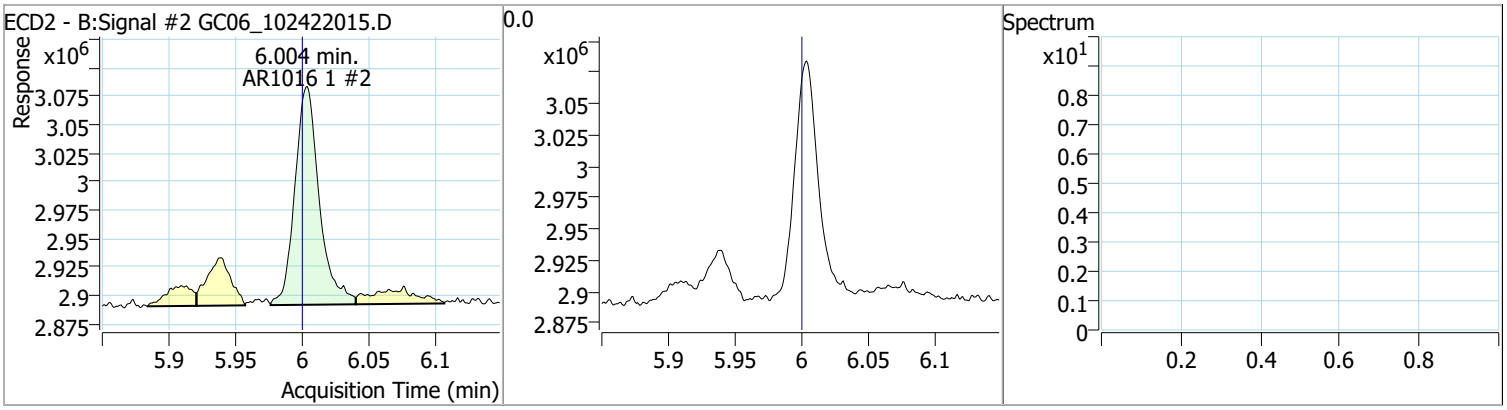
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TCMX (PCB) #2	4.1552	5.50	0.00	880844				



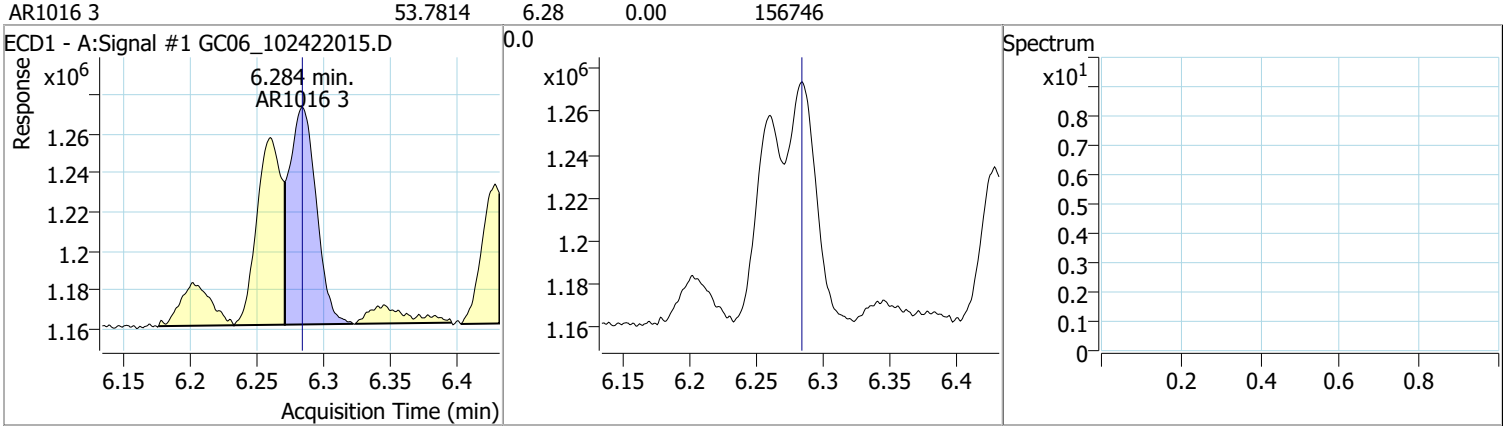
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	43.7895	5.80	0.00	135263				



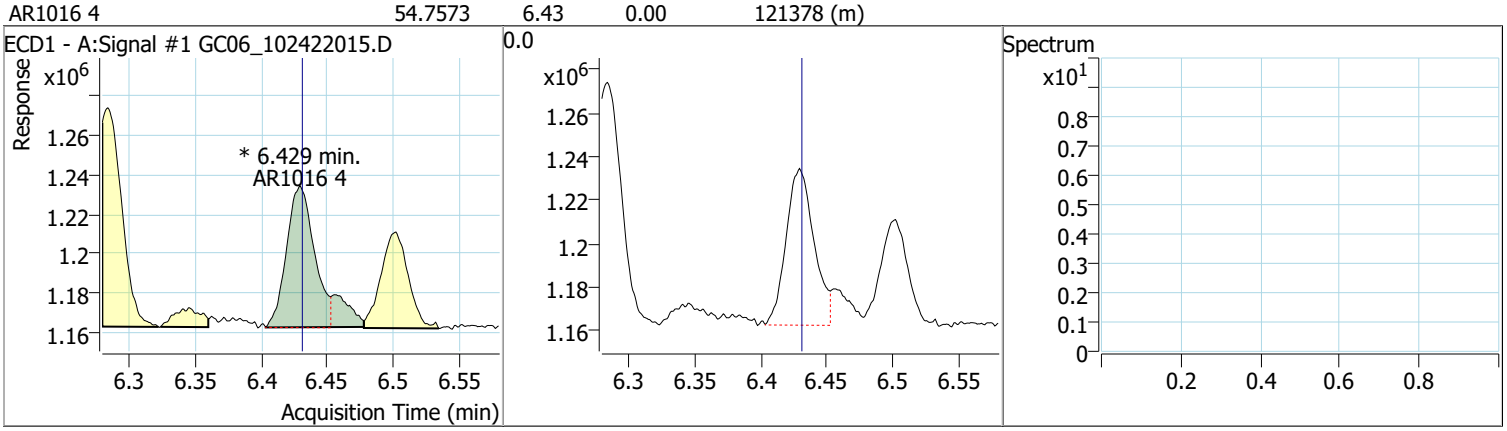
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AR1016 1 #2	53.7828	6.00	0.00	246737				



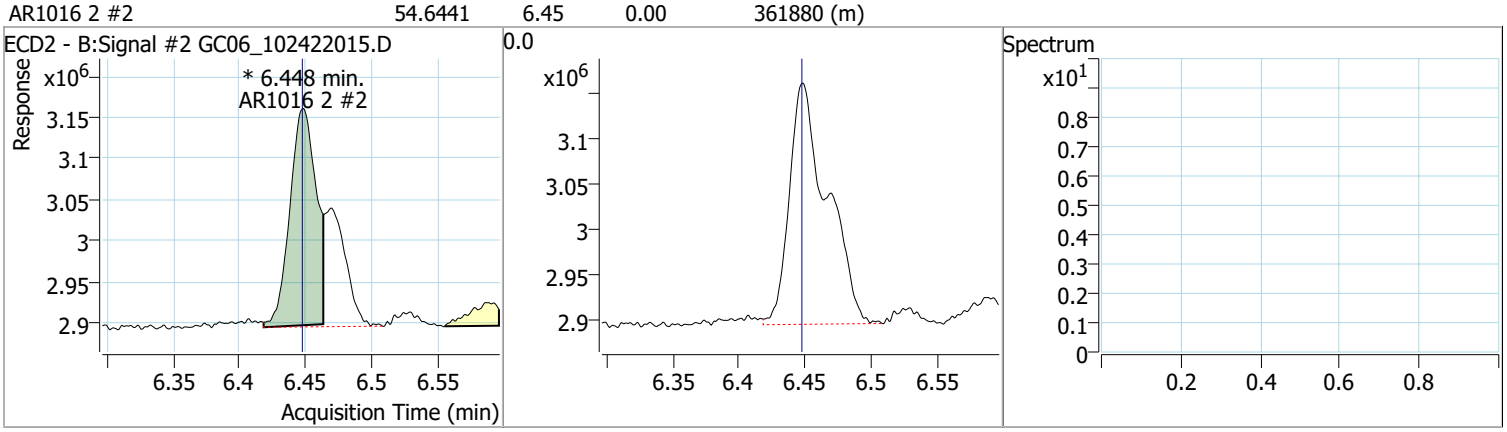
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AR1016 3	53.7814	6.28	0.00	156746				



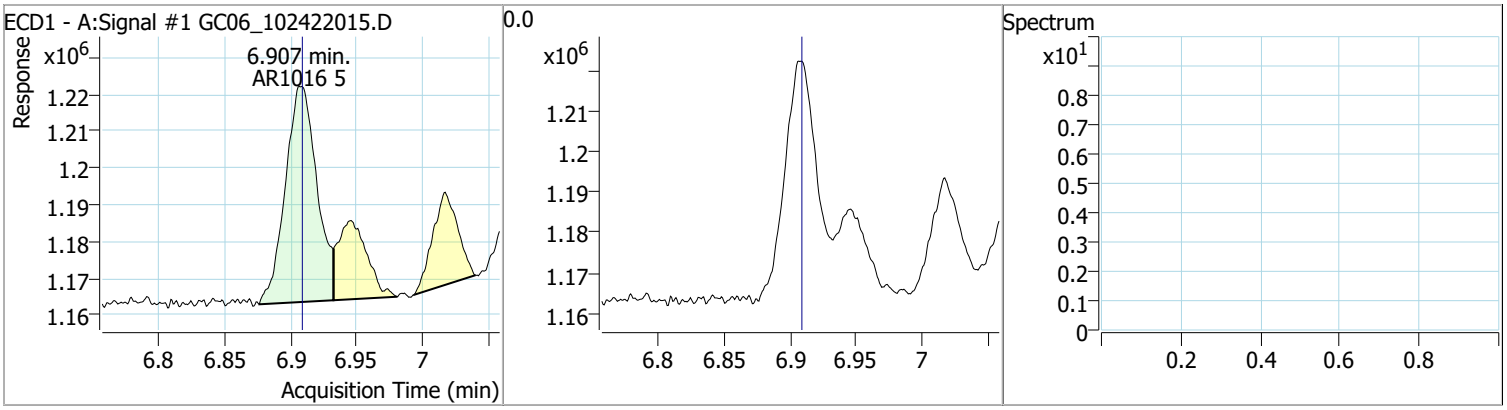
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	54.7573	6.43	0.00	121378 (m)				



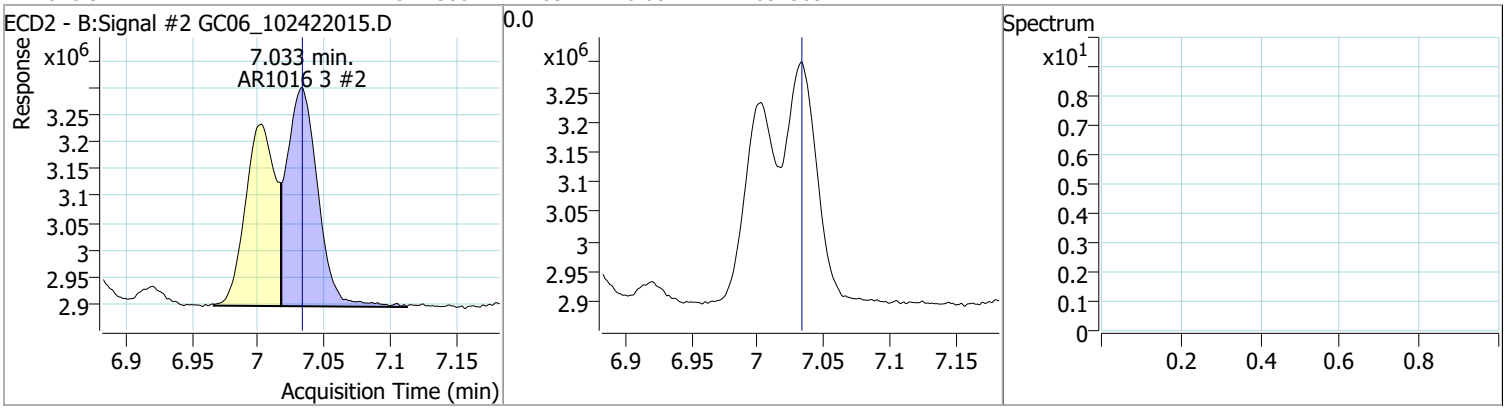
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AR1016 2 #2	54.6441	6.45	0.00	361880 (m)				



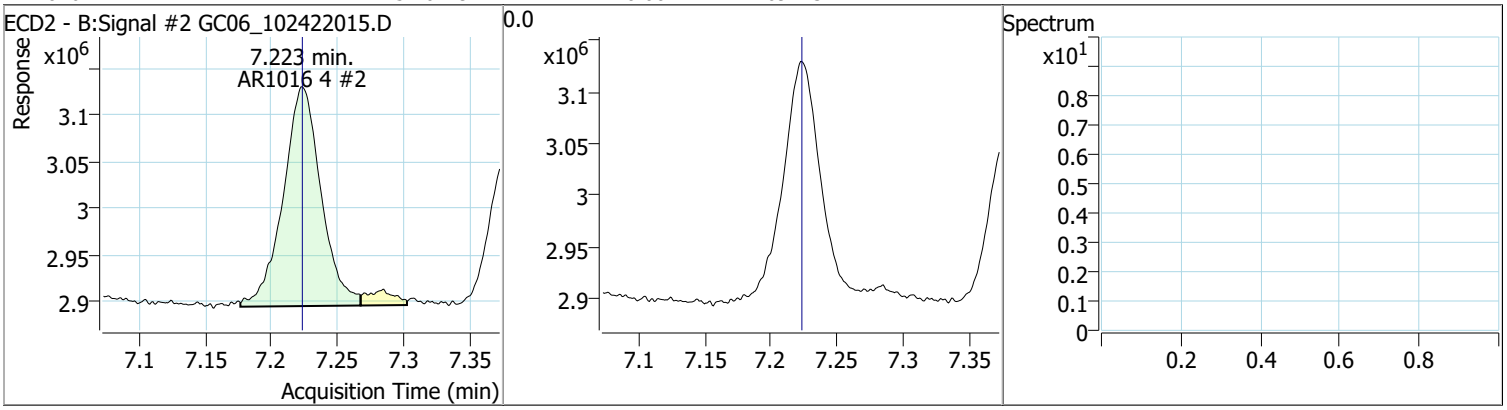
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	54.5615	6.91	0.00	97415				



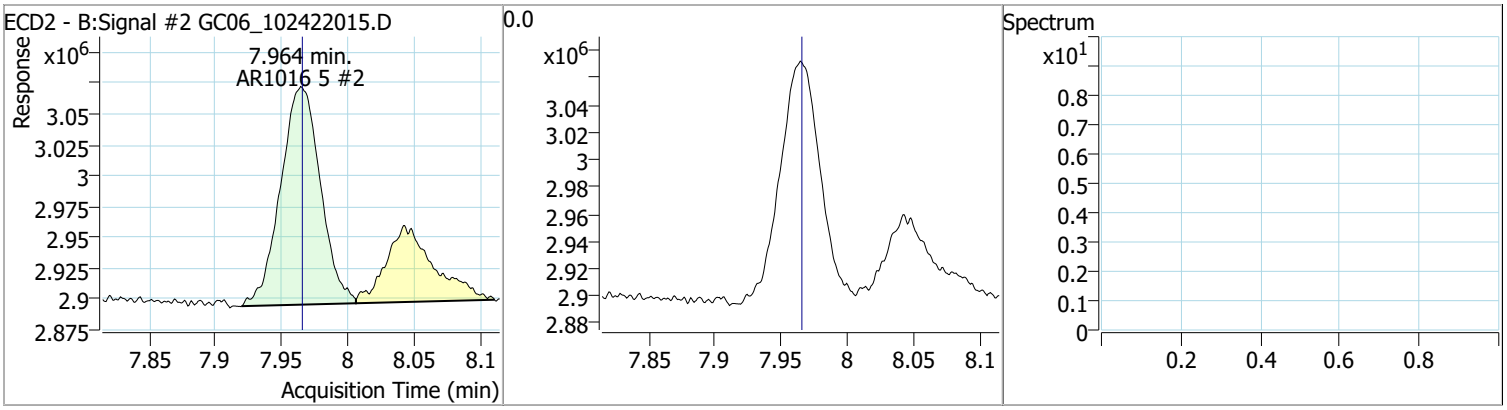
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AR1016 3 #2	54.2308	7.03	0.00	652565				



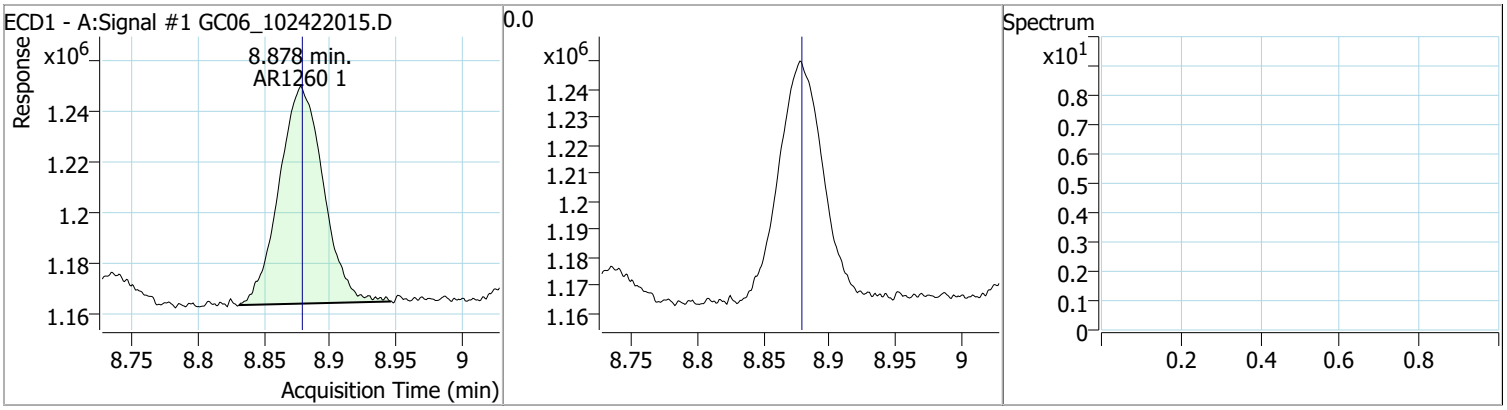
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AR1016 4 #2	54.6779	7.22	0.00	469713				



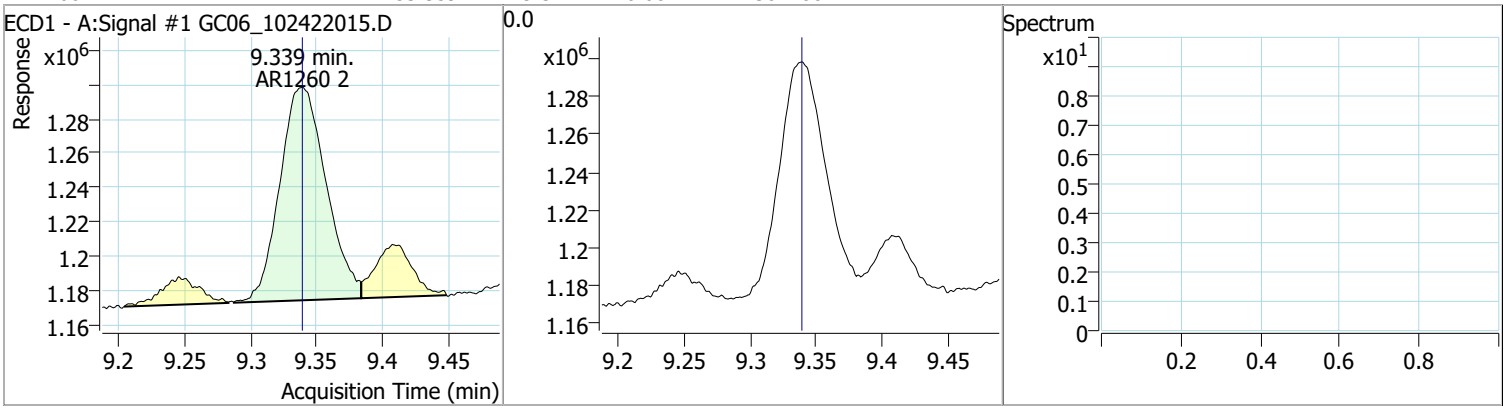
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	53.0536	7.96	0.00	370462				



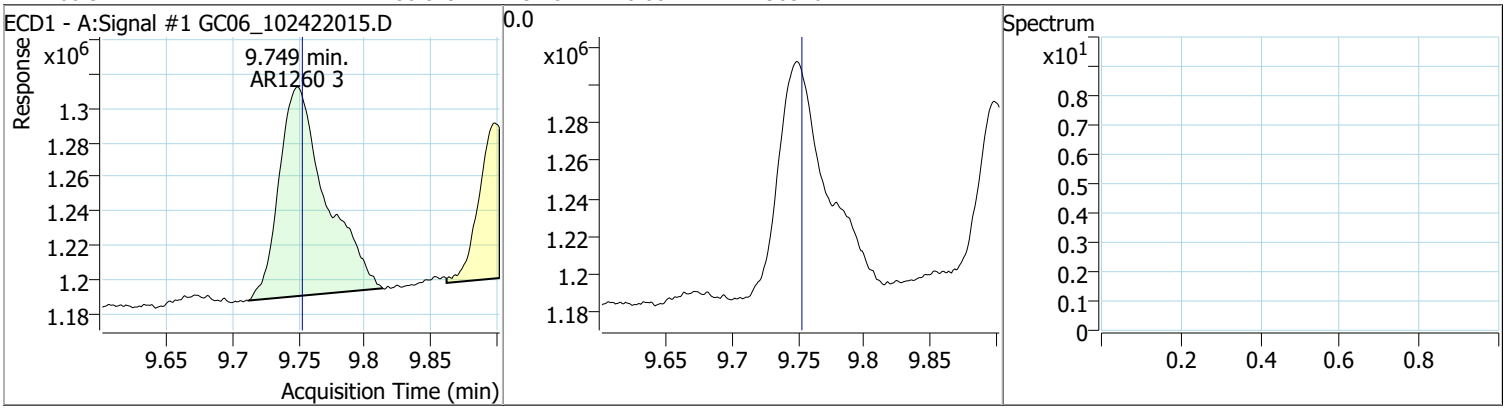
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	53.6454	8.88	0.00	198865				



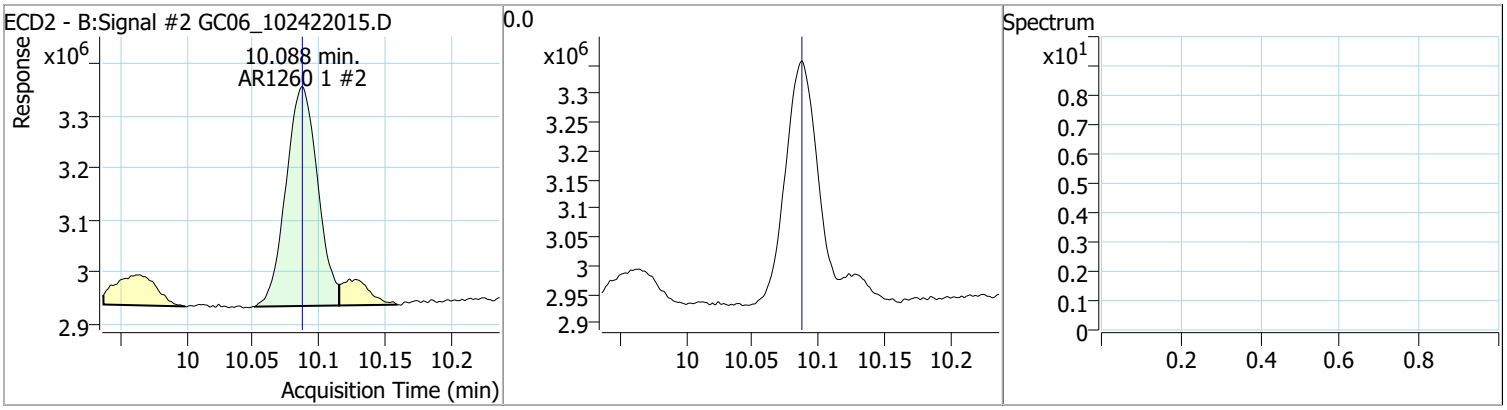
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AR1260 2	53.3592	9.34	0.00	301488				



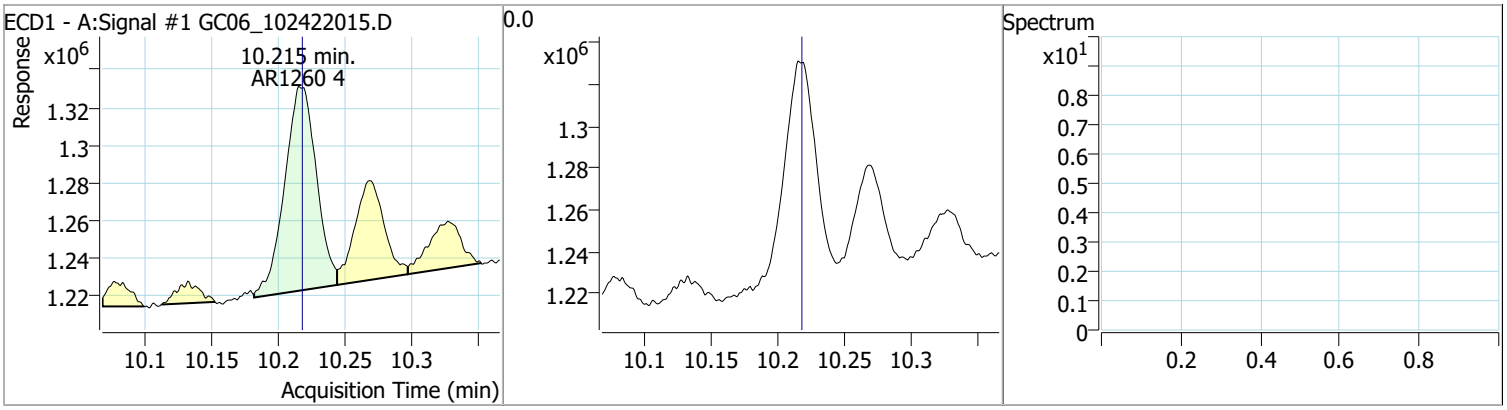
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	50.5491	9.75	0.00	298526				



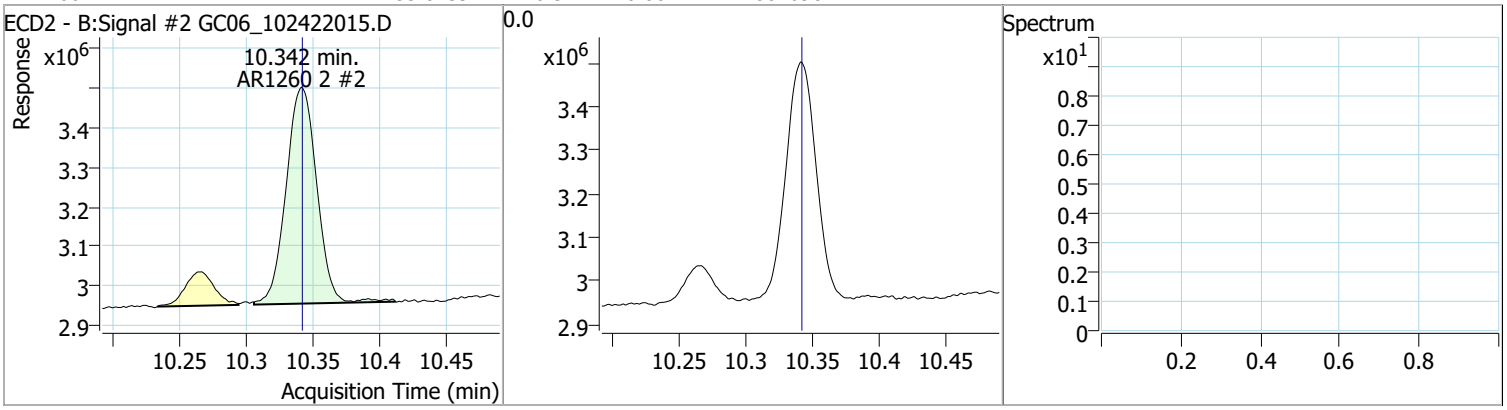
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AR1260 1 #2	53.5865	10.09	0.00	703927				



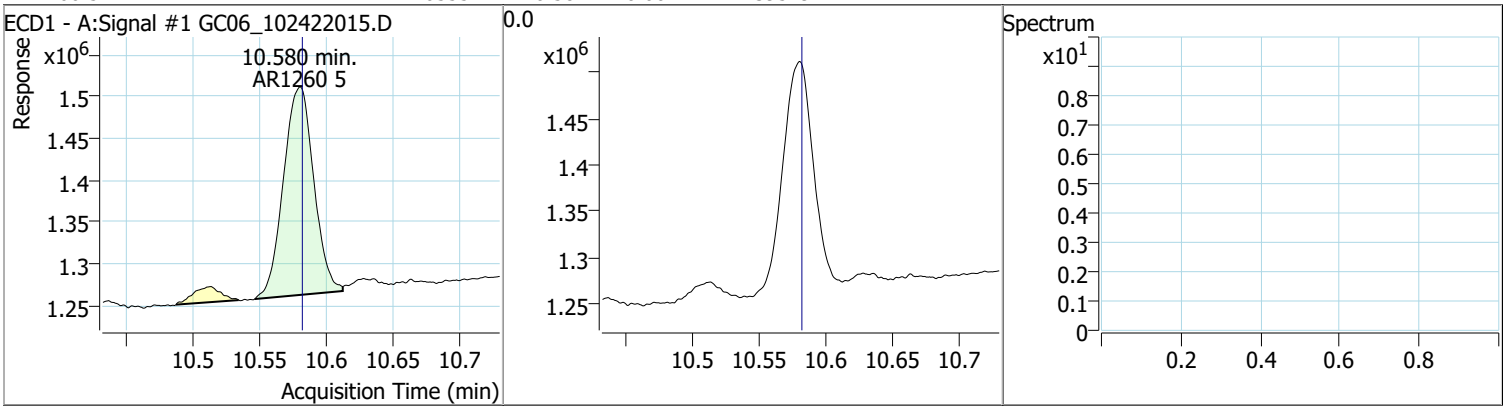
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	42.2826	10.22	0.00	180051				



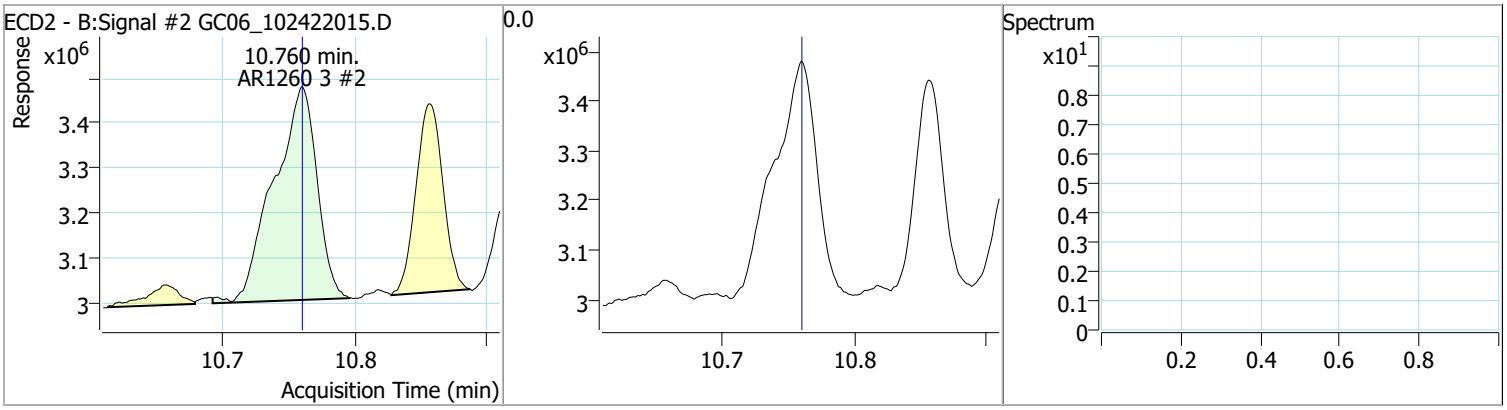
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AR1260 2 #2	55.8239	10.34	0.00	881098				



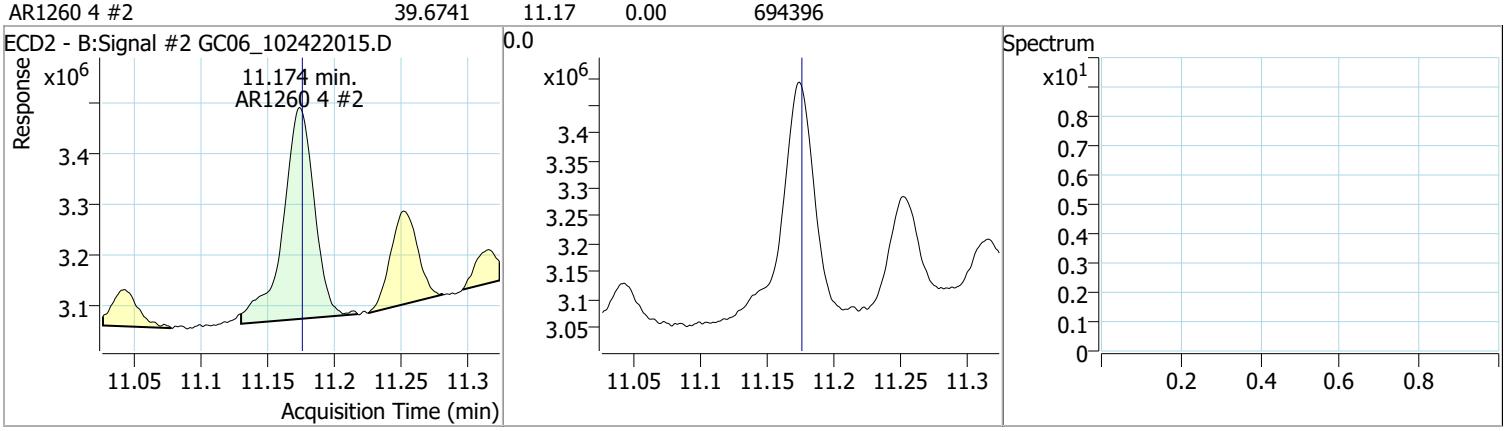
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	42.0555	10.58	0.00	395492				



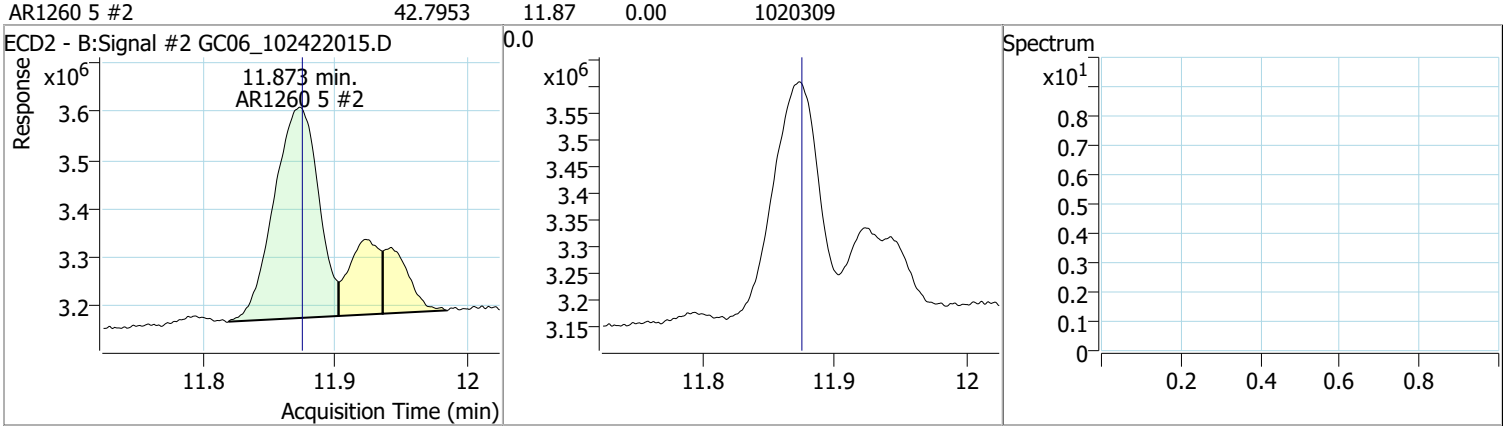
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	53.9712	10.76	0.00	1078262				



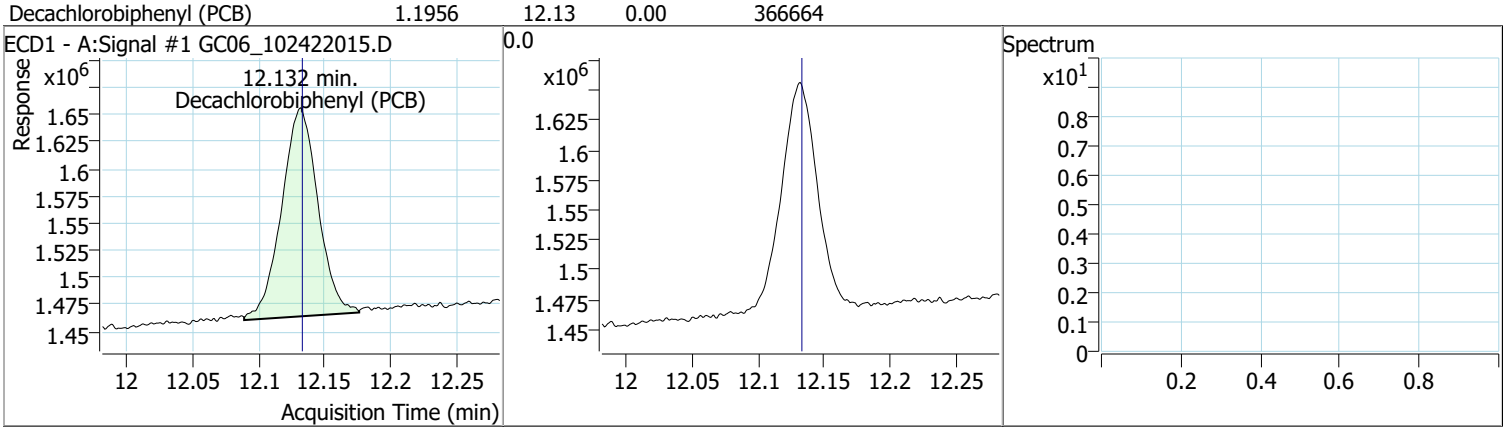
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	39.6741	11.17	0.00	694396				



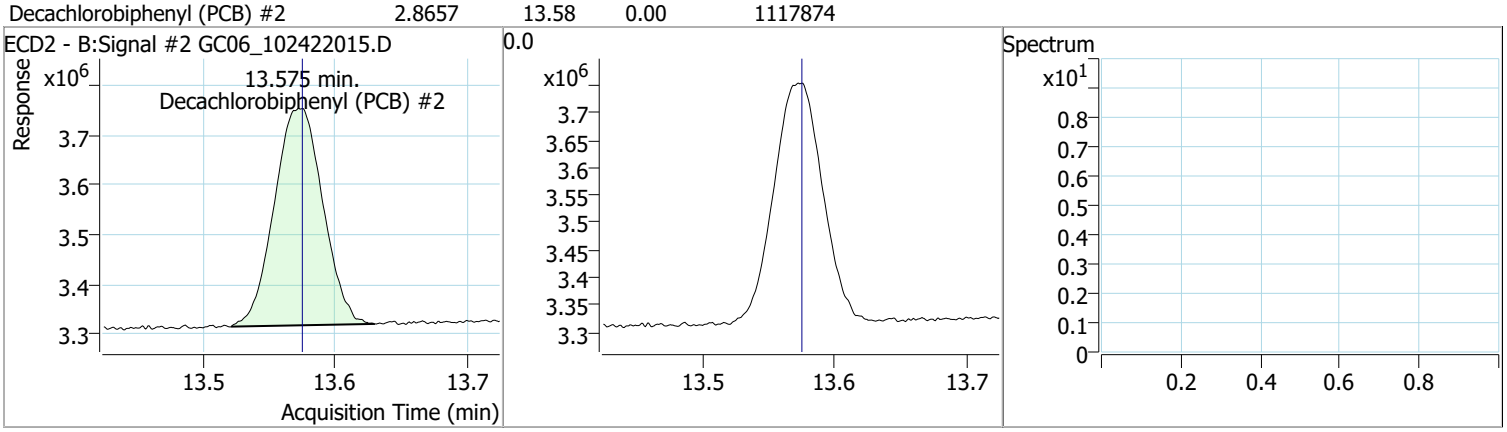
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	42.7953	11.87	0.00	1020309				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	1.1956	12.13	0.00	366664				

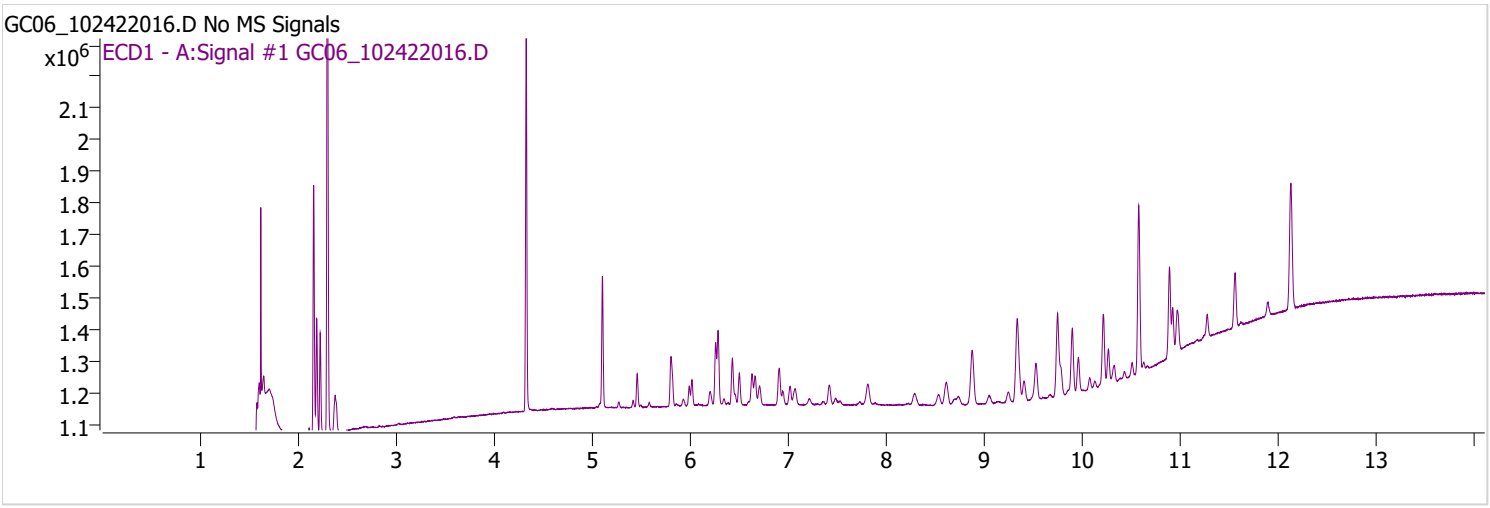


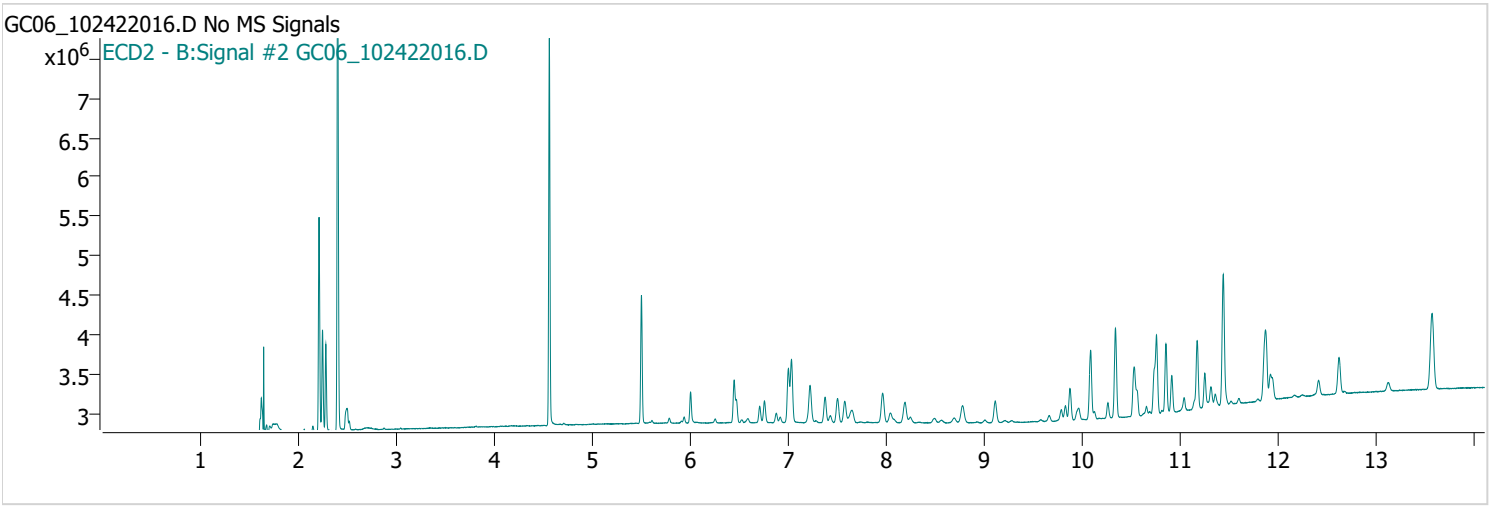
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	2.8657	13.58	0.00	1117874				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422016.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 6:02:02 PM
Sample Name	ICAL, S17265	Instrument	SVOA-GC06
Vial	13	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



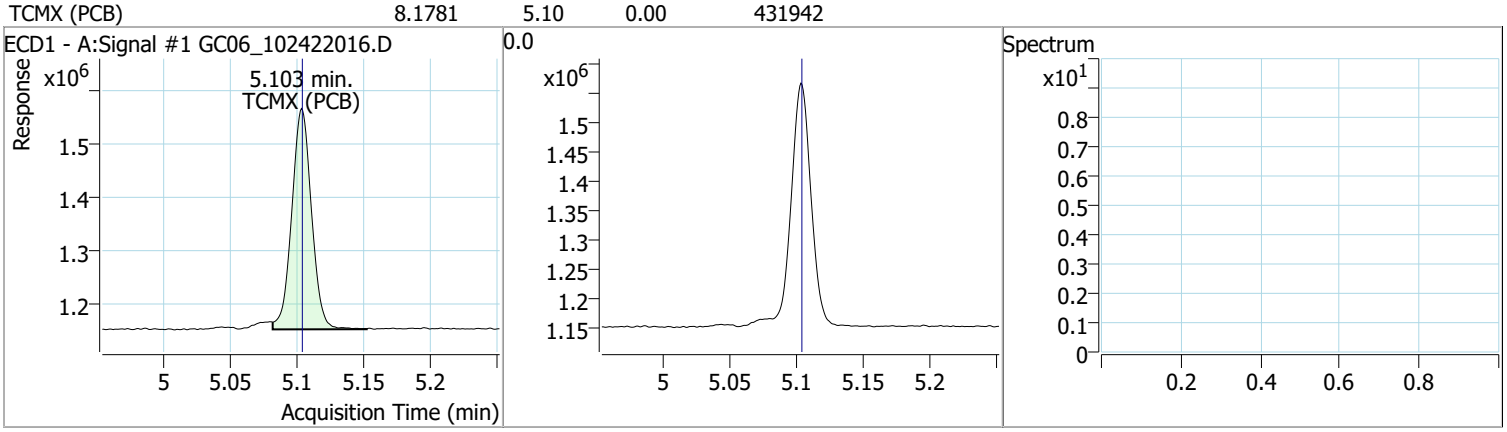


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1098556.587	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.561	0.0	4473955.688	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	431941.849	8.1781	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 40.89%		*	
S TCMX (PCB) #2	5.502	0.0	1756841.947	8.1767	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 40.88%		*	
S Decachlorobiphenyl (PCB)	12.133	0.0	769715.326	7.2383	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 36.19%		*	
S Decachlorobiphenyl (PCB) #2	13.576	0.0	2414988.806	8.4992	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 42.50%		*	
Target Compounds							**QValue**
T AR1016 1	5.458	0.0	126029.603	109.4237	ng/ml		100

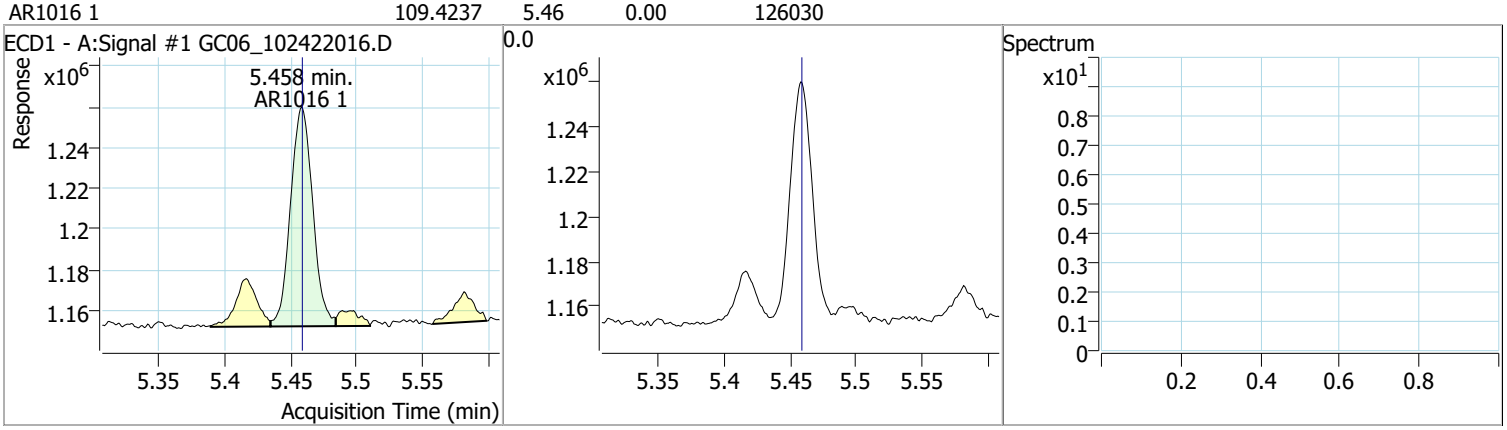
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 2	5.803	0.0	273792.604	104.1655	ng/ml		100
T AR1016 1 #2	6.003	0.0	494438.051	106.3335	ng/ml		100
T AR1016 3	6.284	0.0	317105.085	108.5912	ng/ml		100
T AR1016 4	6.431	0.0	243468.264	109.6225	ng/ml		100
T AR1016 2 #2	6.448	0.0	752749.371	112.1446	ng/ml	m	100
T AR1016 5	6.909	0.0	194872.097	108.9344	ng/ml		100
T AR1016 3 #2	7.033	0.0	1331099.472	109.1394	ng/ml		100
T AR1016 4 #2	7.223	0.0	949564.555	109.0568	ng/ml		100
T AR1016 5 #2	7.964	0.0	771943.524	109.0702	ng/ml		100
T AR1260 1	8.878	0.0	390861.384	105.2331	ng/ml		100
T AR1260 2	9.338	0.0	614413.614	108.5313	ng/ml		100
T AR1260 3	9.751	0.0	626423.788	105.8658	ng/ml		100
T AR1260 1 #2	10.088	0.0	1506423.617	113.1421	ng/ml		100
T AR1260 4	10.218	0.0	373415.612	104.0416	ng/ml		100
T AR1260 2 #2	10.342	0.0	1768113.790	110.5237	ng/ml		100
T AR1260 5	10.579	0.0	836749.386	108.9242	ng/ml		100
T AR1260 3 #2	10.761	0.0	2204619.622	108.8731	ng/ml		100
T AR1260 4 #2	11.176	0.0	1447196.030	106.5619	ng/ml		100
T AR1260 5 #2	11.873	0.0	2132038.907	108.0368	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

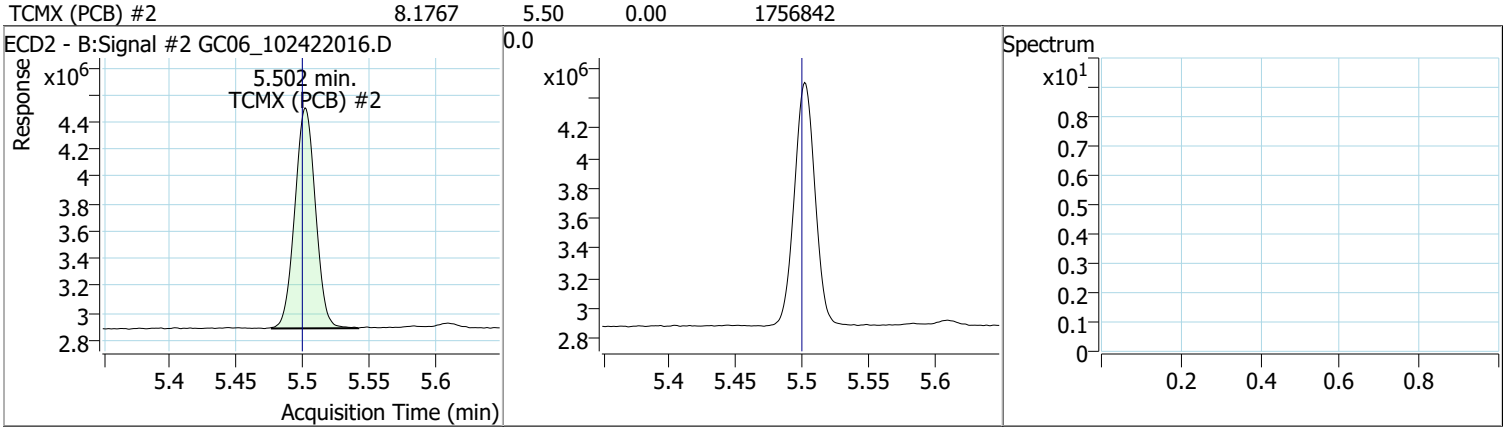
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	8.1781	5.10	0.00	431942				



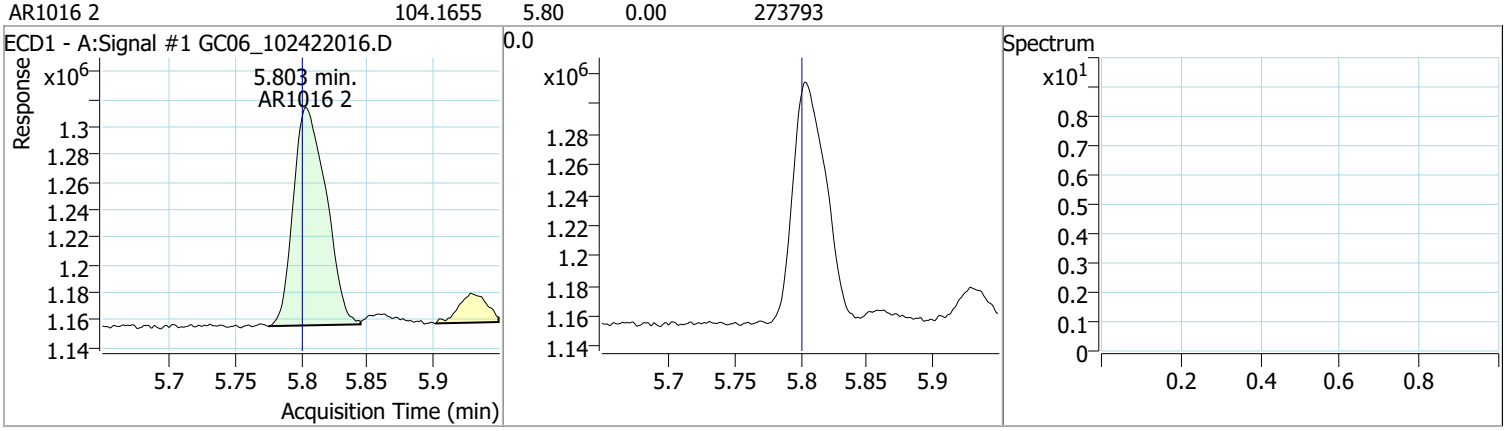
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	109.4237	5.46	0.00	126030				



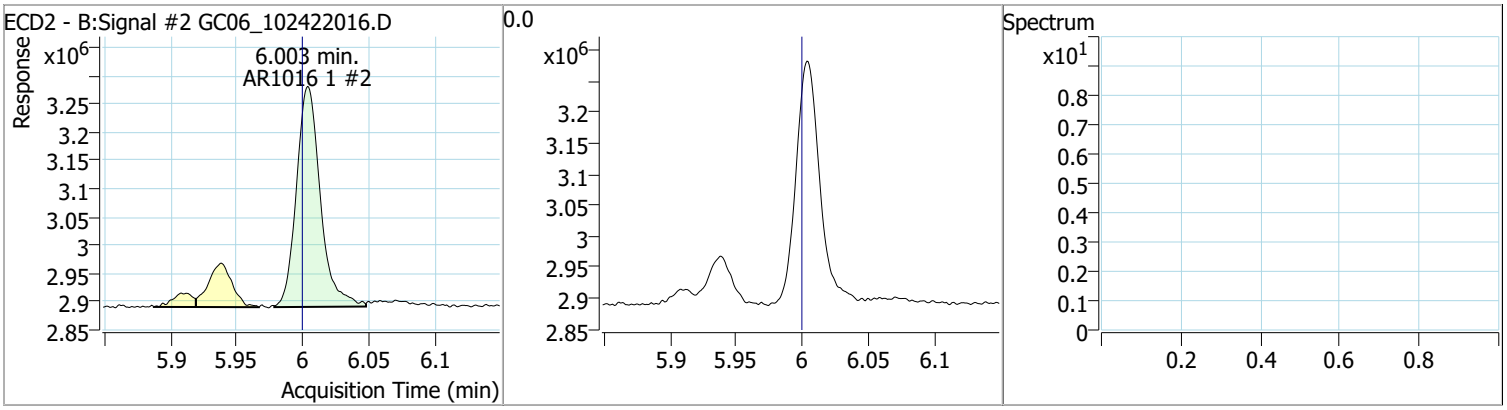
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	8.1767	5.50	0.00	1756842				



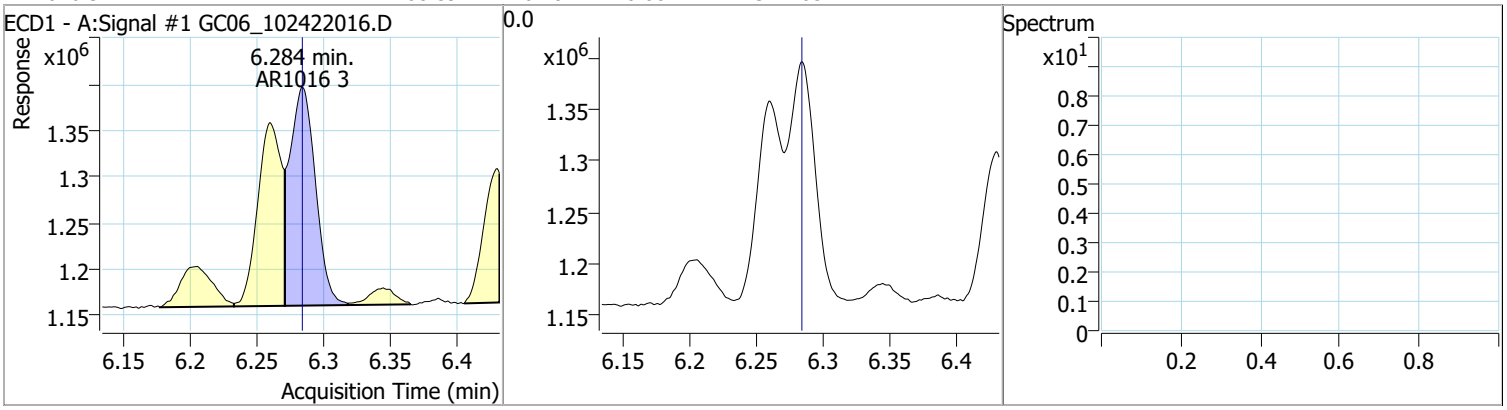
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	104.1655	5.80	0.00	273793				



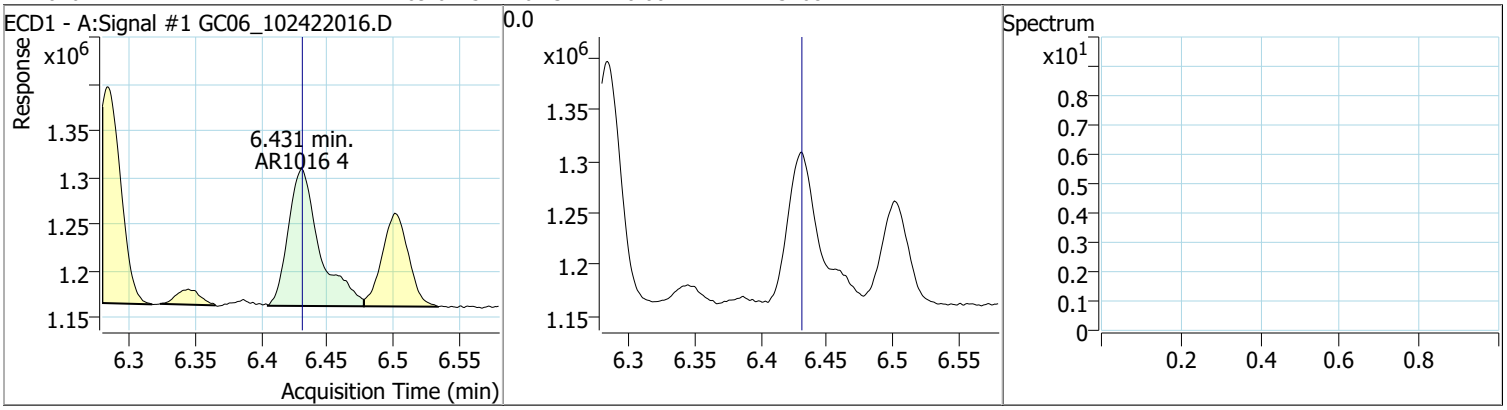
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	106.3335	6.00	0.00	494438				



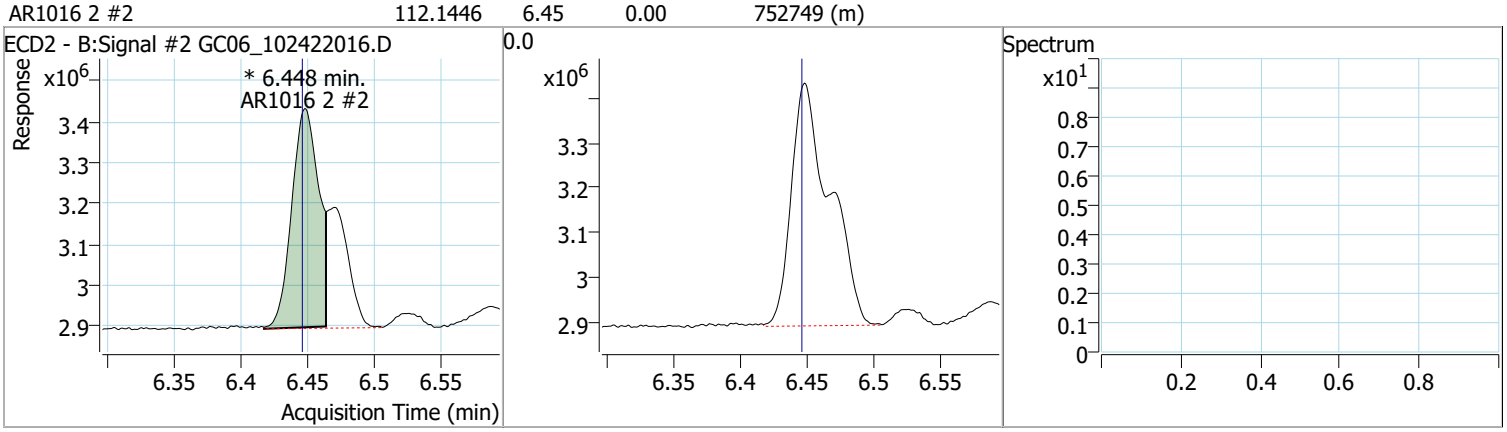
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	108.5912	6.28	0.00	317105				



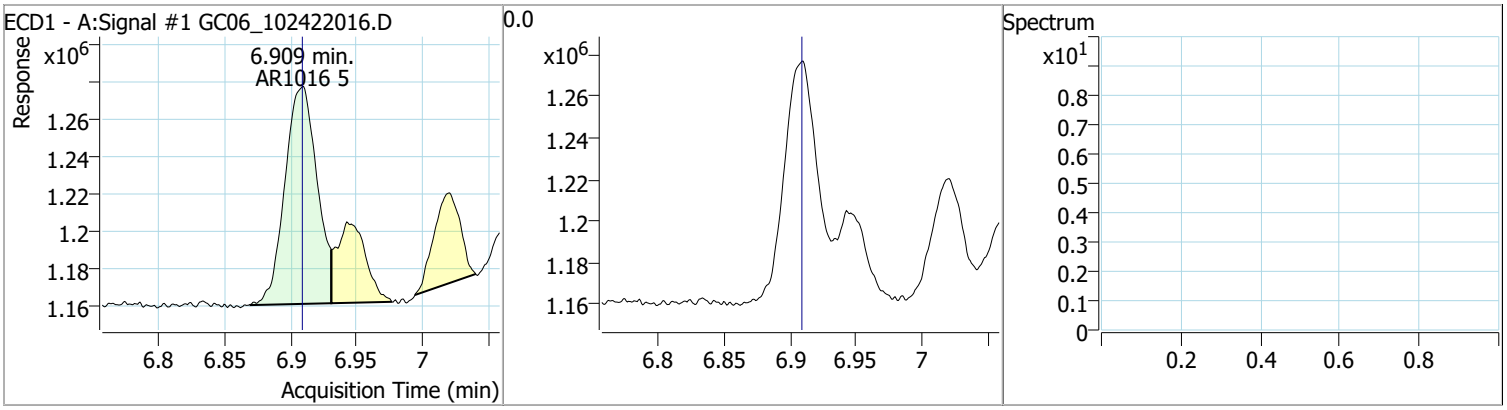
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	109.6225	6.43	0.00	243468				



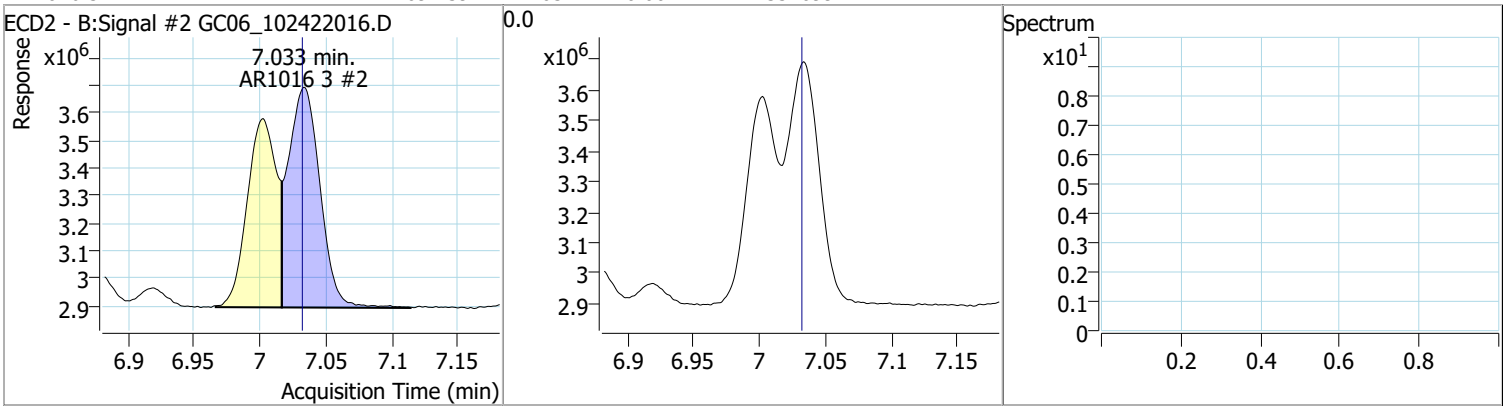
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	112.1446	6.45	0.00	752749 (m)				



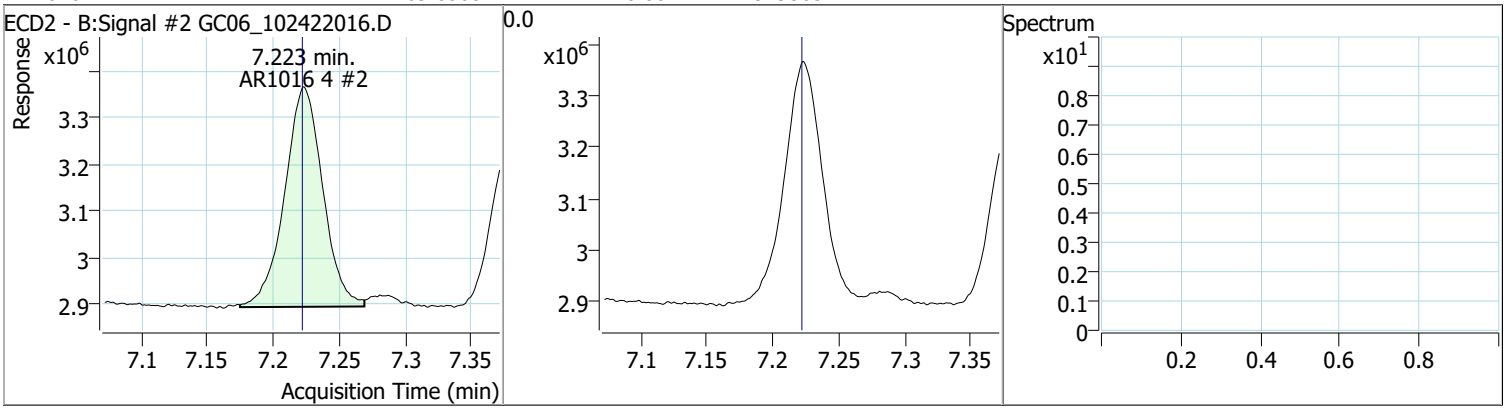
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	108.9344	6.91	0.00	194872				



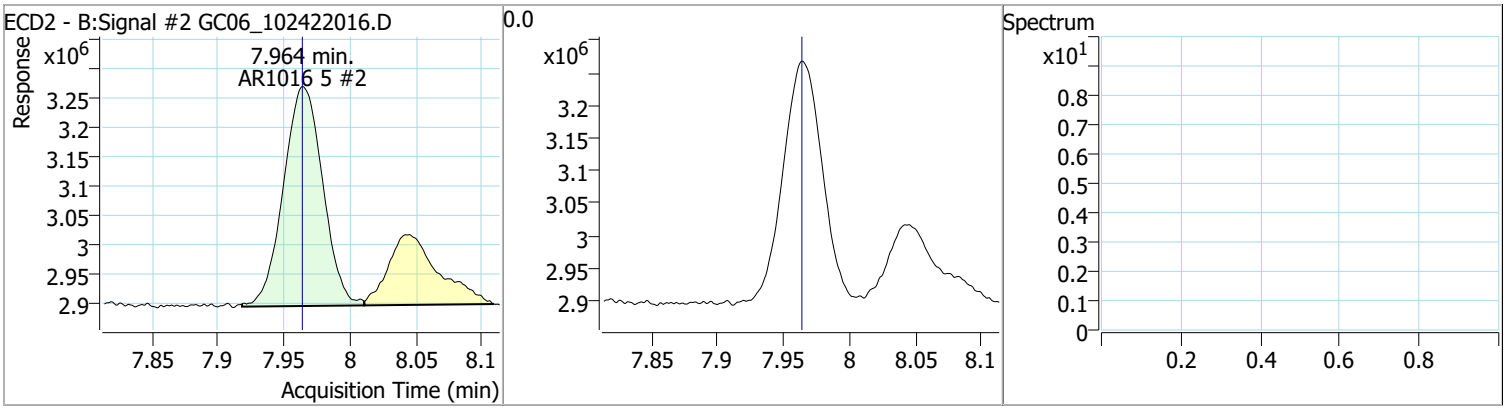
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	109.1394	7.03	0.00	1331099				



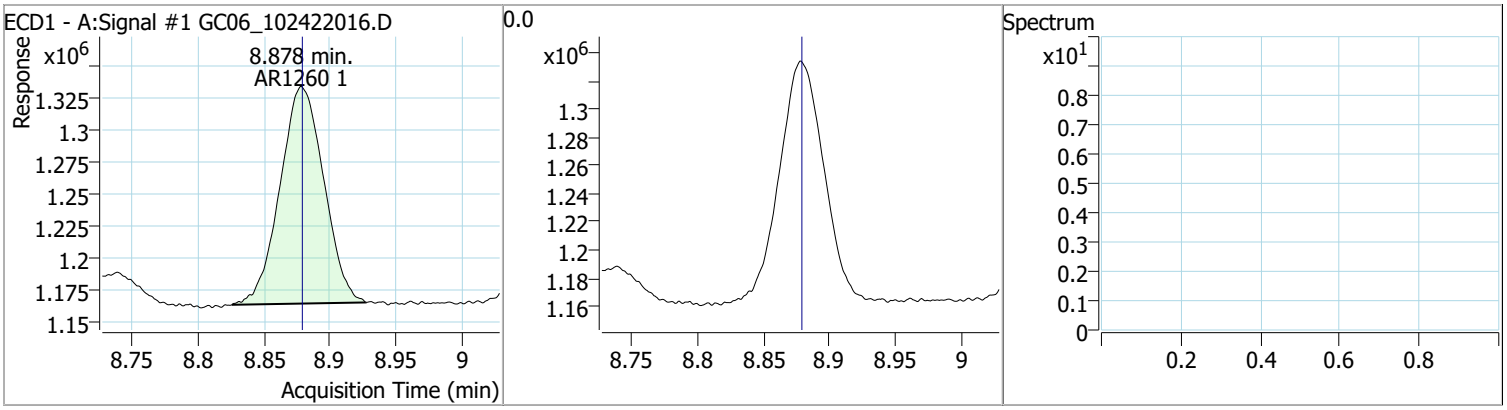
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AR1016 4 #2	109.0568	7.22	0.00	949565				



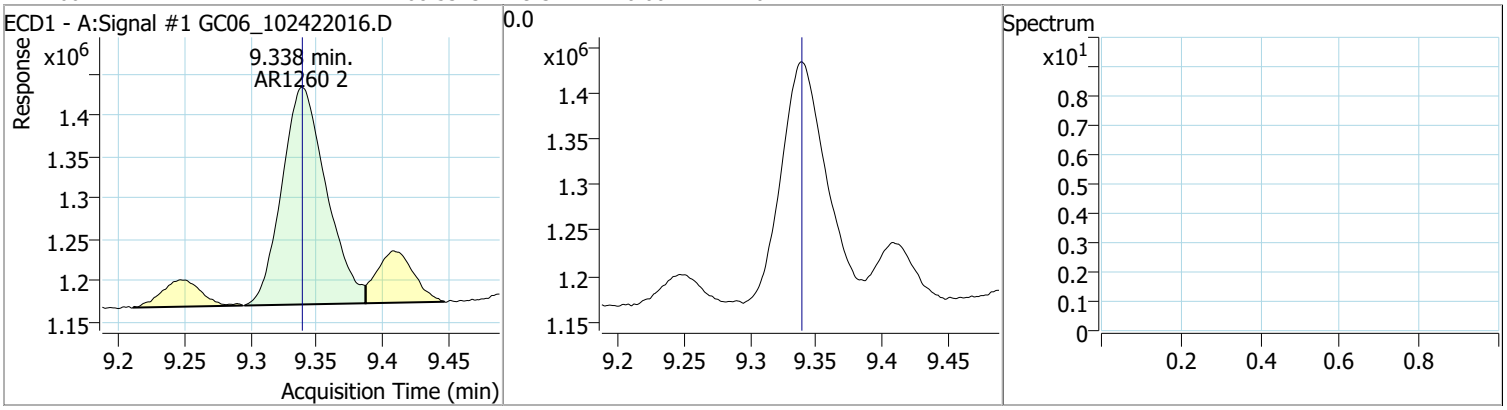
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	109.0702	7.96	0.00	771944				



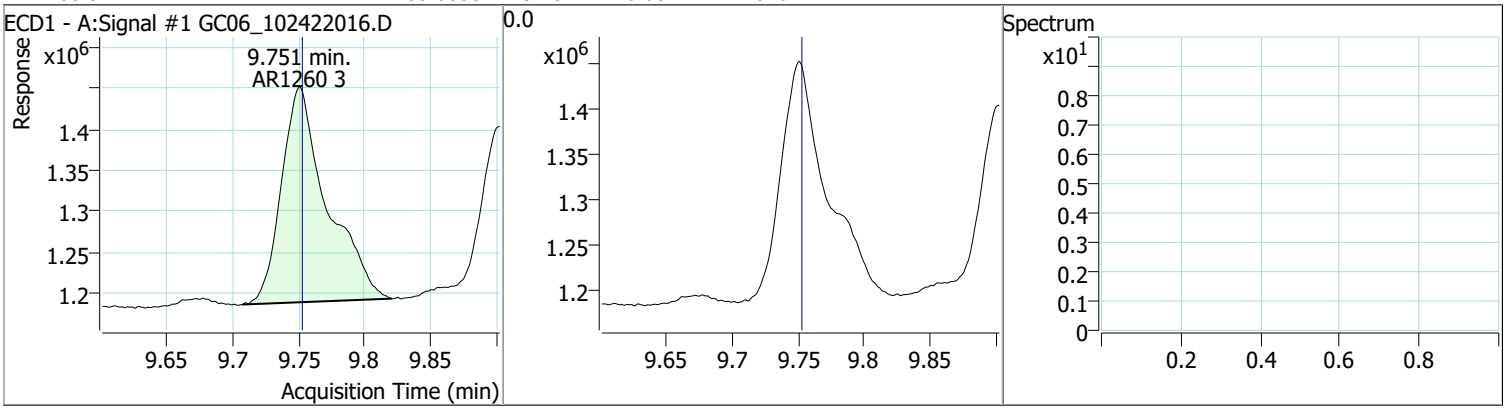
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	105.2331	8.88	0.00	390861				



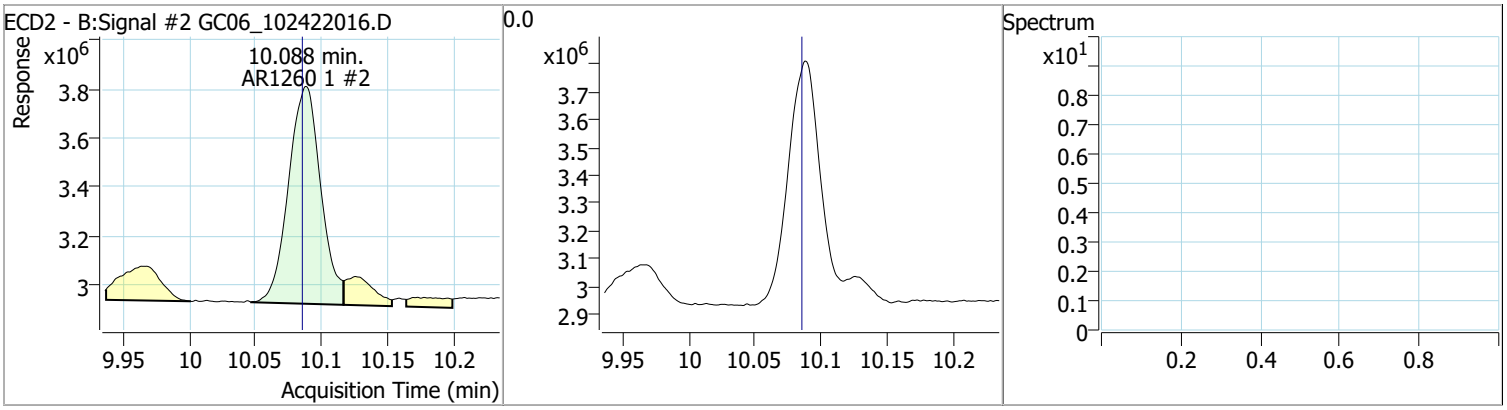
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	108.5313	9.34	0.00	614414				



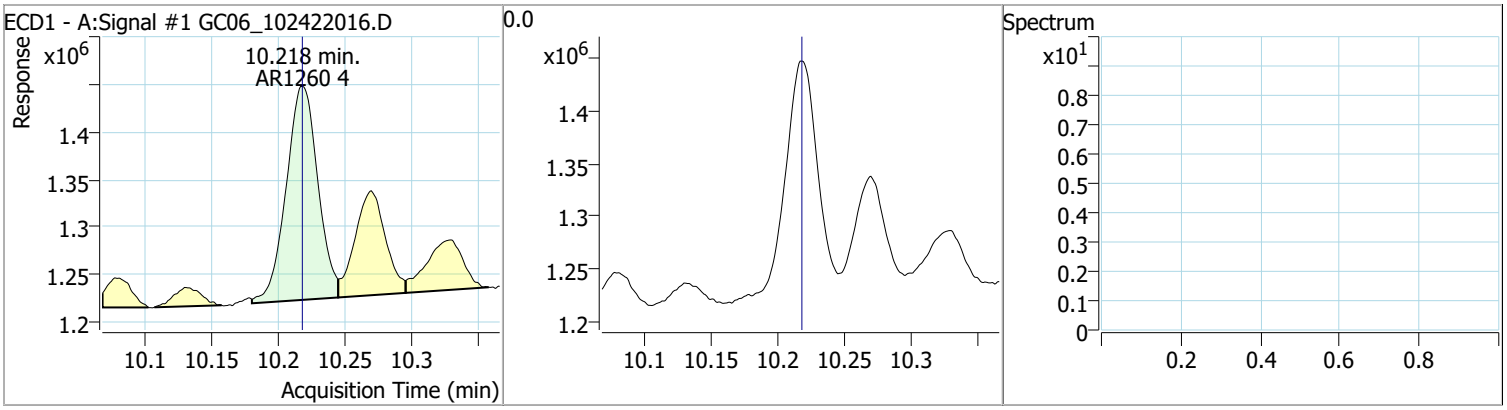
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	105.8658	9.75	0.00	626424				



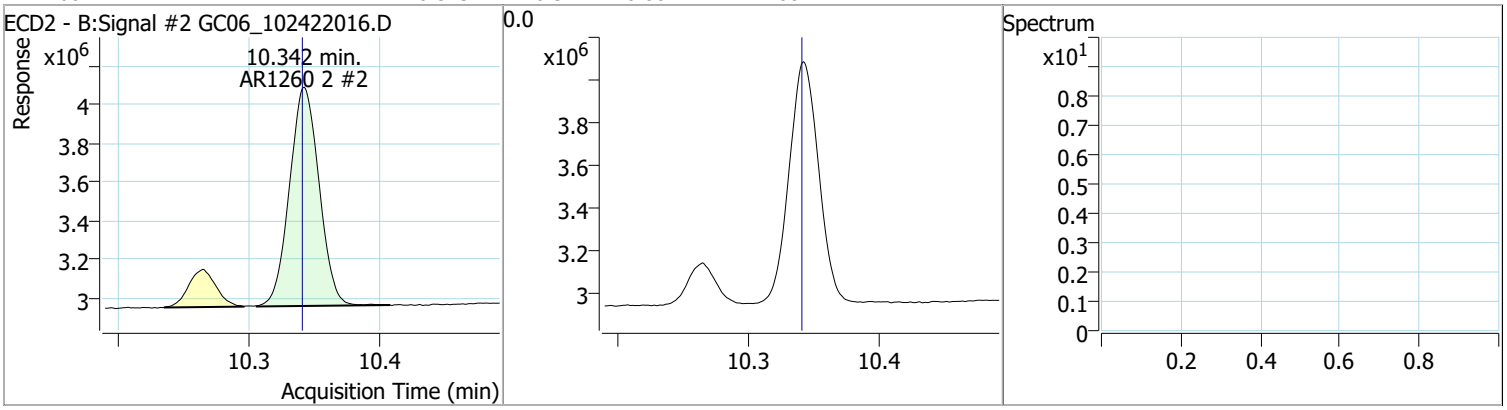
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	113.1421	10.09	0.00	1506424				



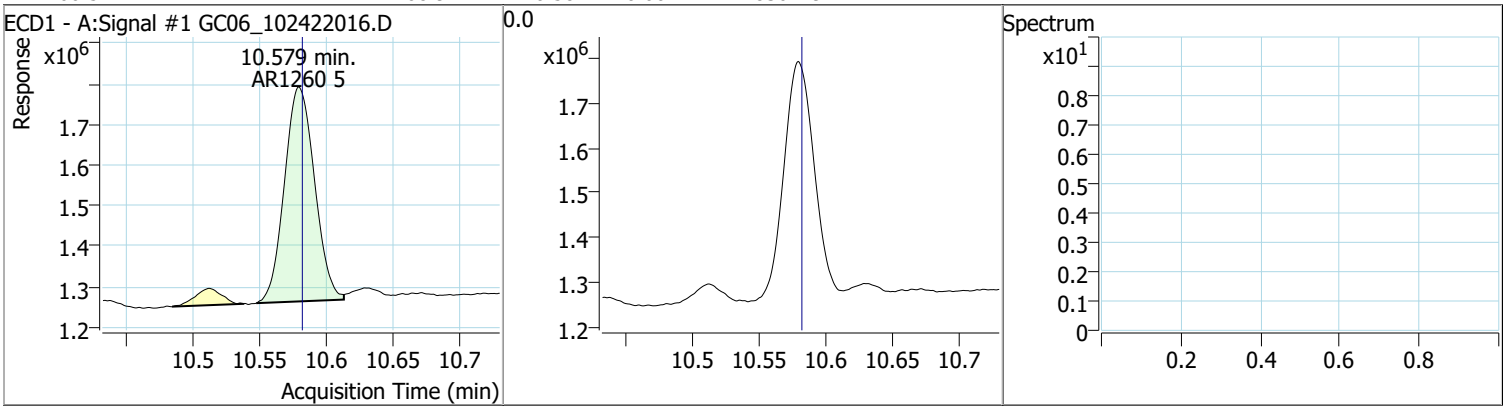
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	104.0416	10.22	0.00	373416				



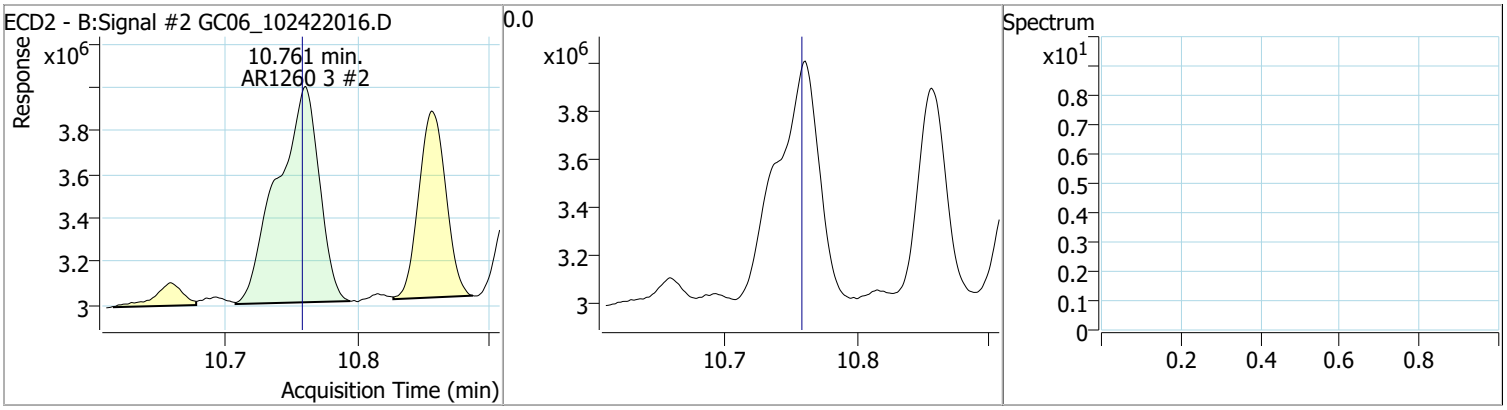
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	110.5237	10.34	0.00	1768114				



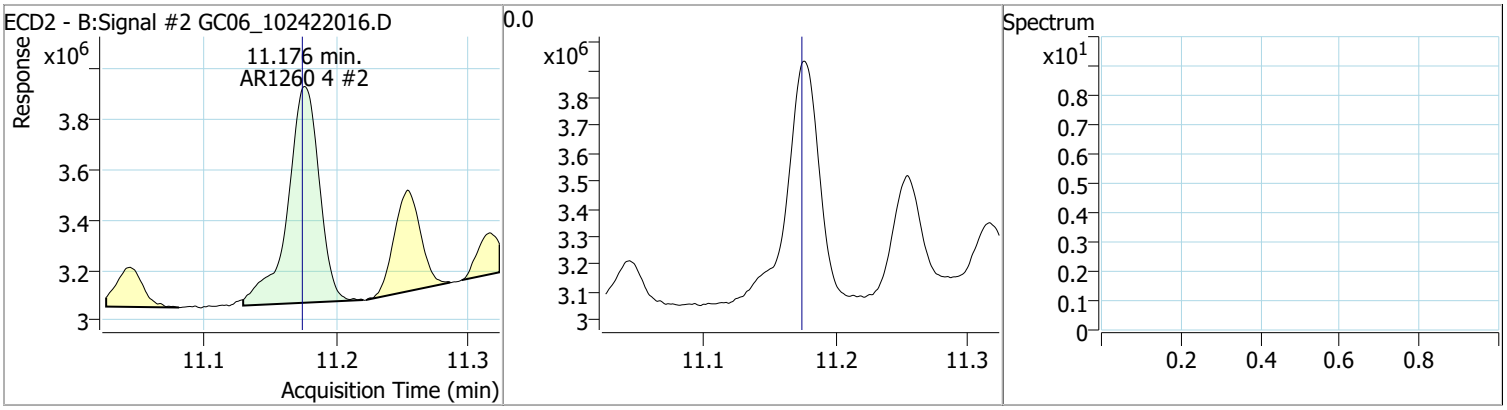
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	108.9242	10.58	0.00	836749				



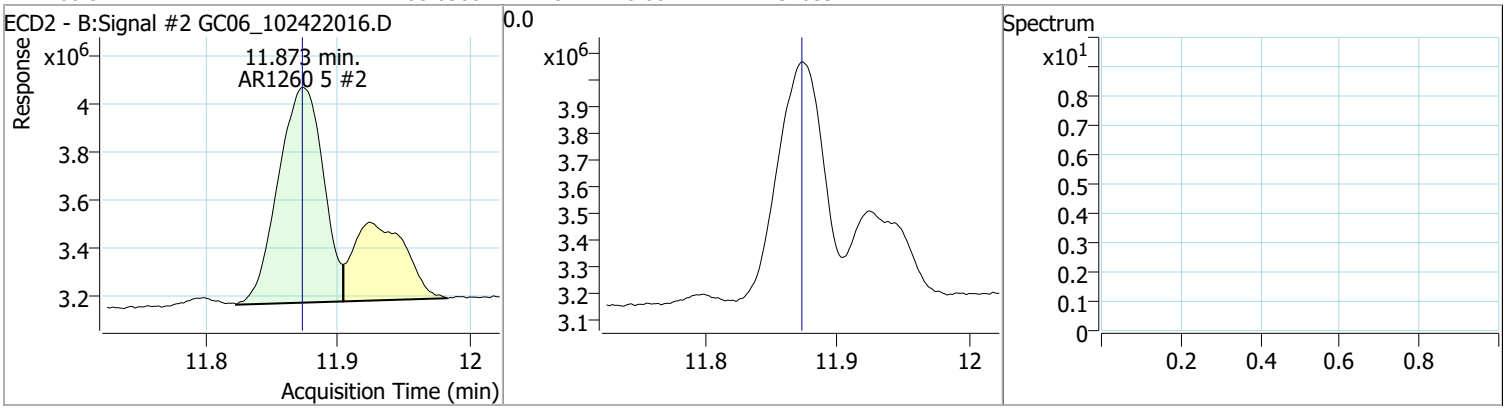
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AR1260 3 #2	108.8731	10.76	0.00	2204620				



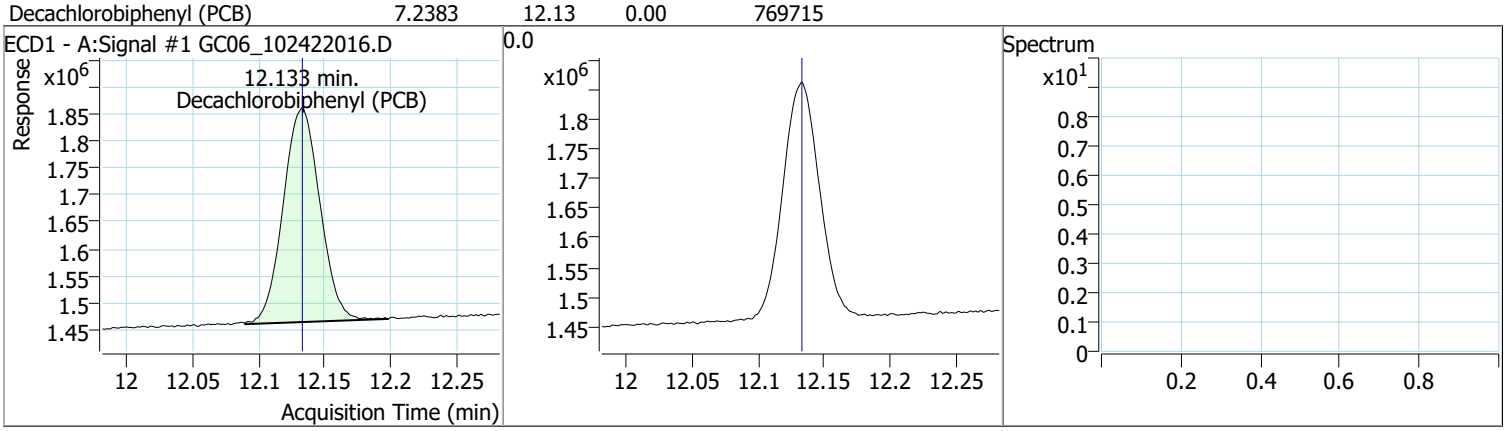
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	106.5619	11.18	0.00	1447196				



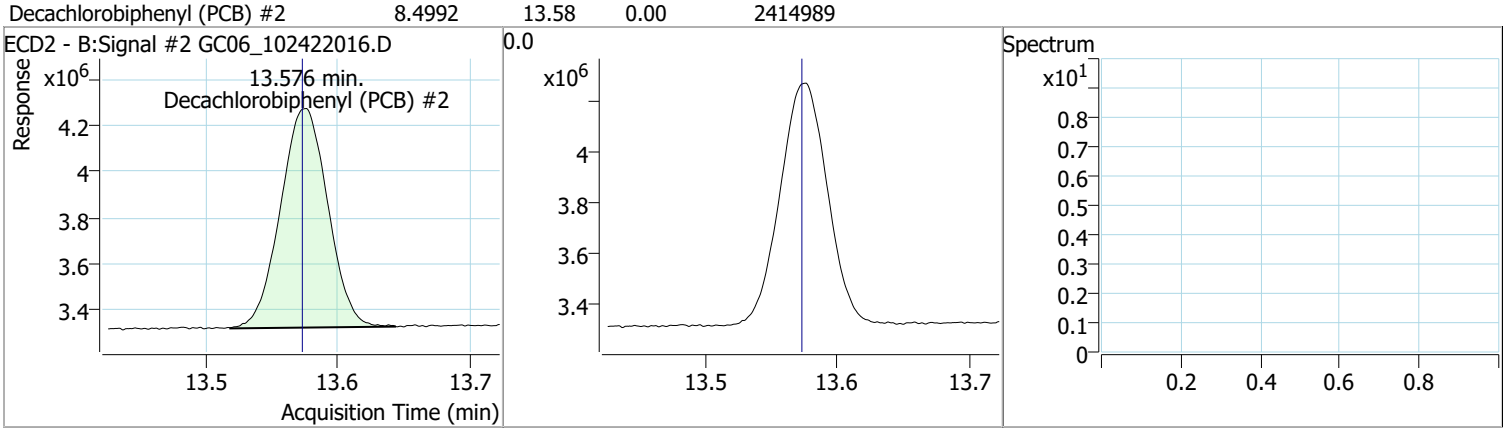
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	108.0368	11.87	0.00	2132039				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	7.2383	12.13	0.00	769715				

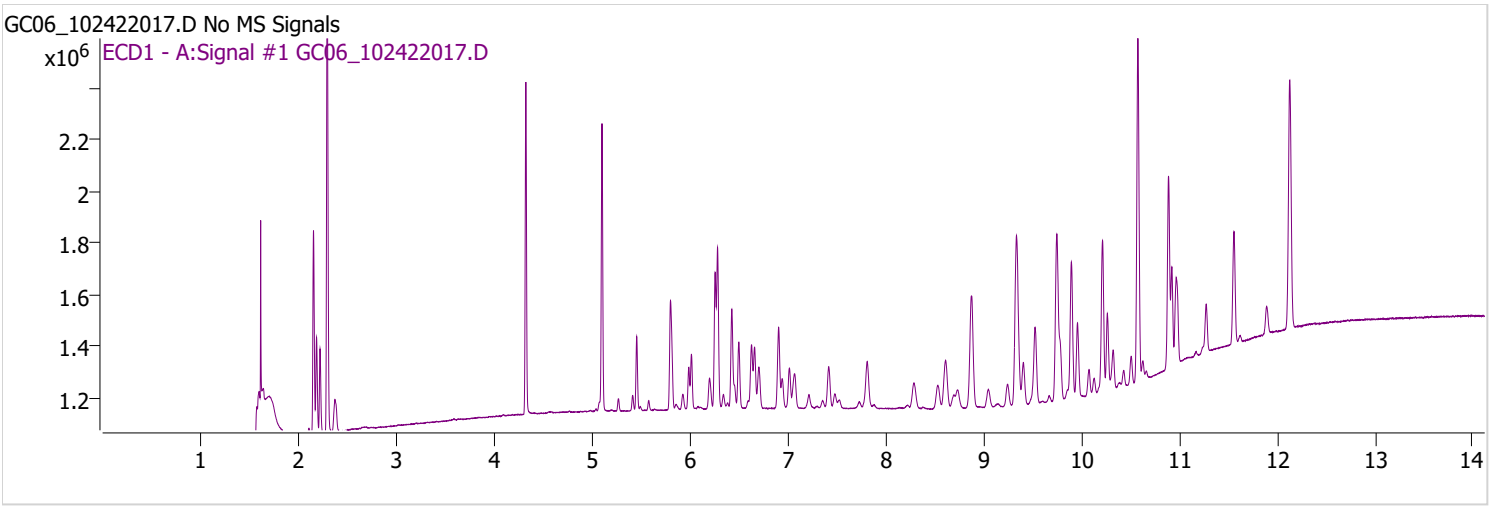


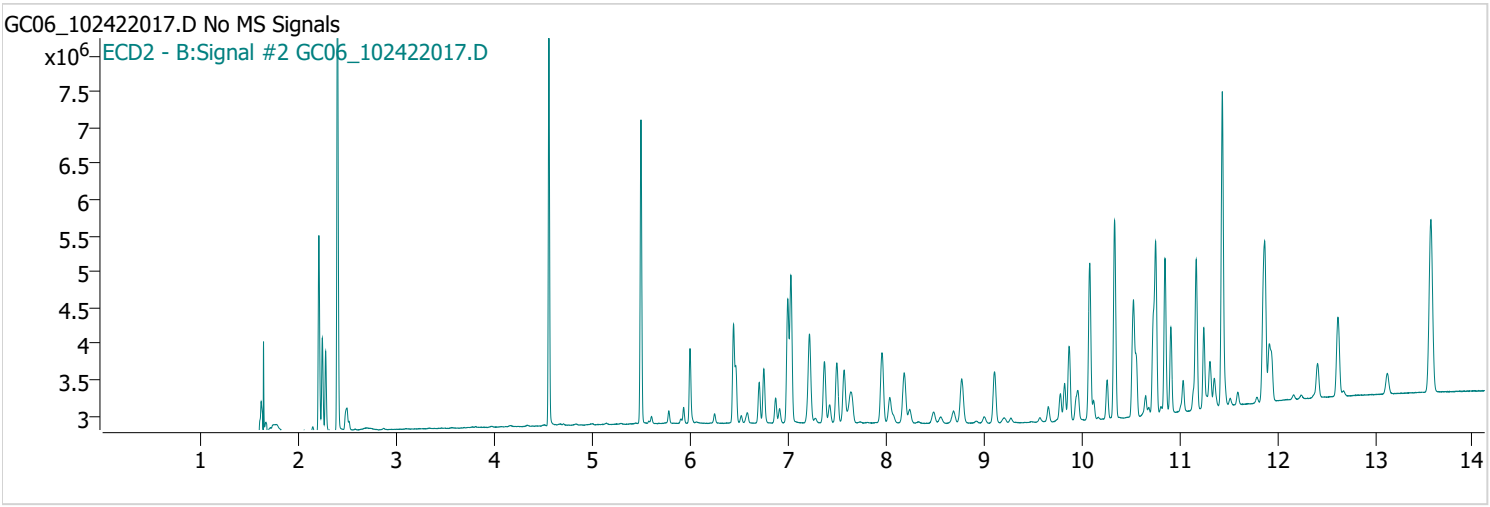
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	8.4992	13.58	0.00	2414989				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422017.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 6:20:02 PM
Sample Name	ICAL, S17266	Instrument	SVOA-GC06
Vial	14	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



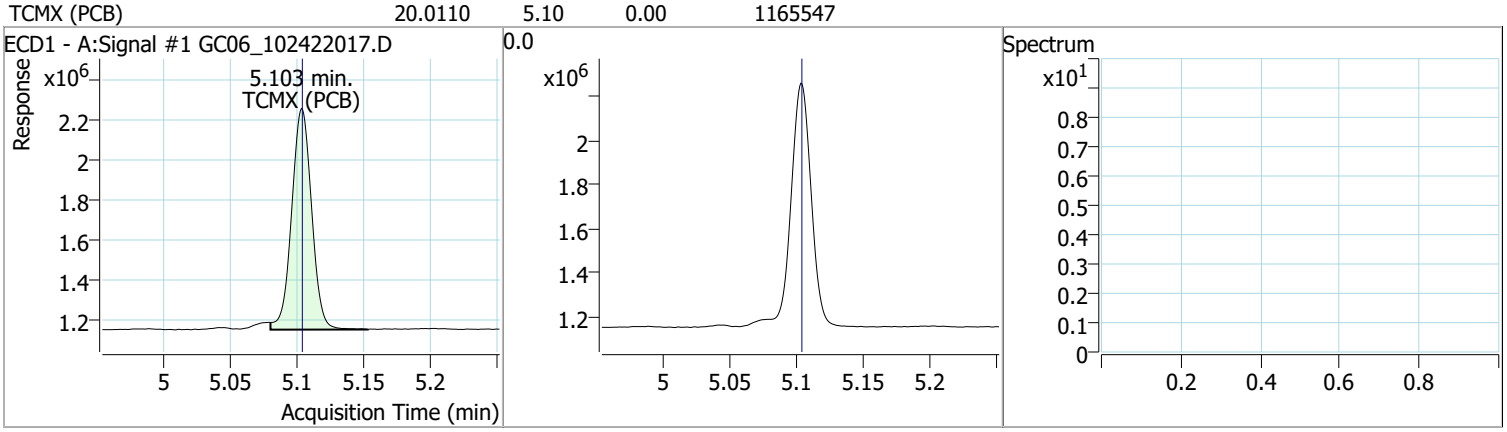


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1211472.444	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.561	0.0	4920571.818	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	1165547.443	20.0110	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 100.05%			
S TCMX (PCB) #2	5.502	0.0	4758798.041	20.1381	ng/ml	m	0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 100.69%			
S Decachlorobiphenyl (PCB)	12.131	0.0	1850638.921	20.8820	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 104.41%			
S Decachlorobiphenyl (PCB) #2	13.573	0.0	5988530.393	21.8142	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 109.07%			
Target Compounds							QValue

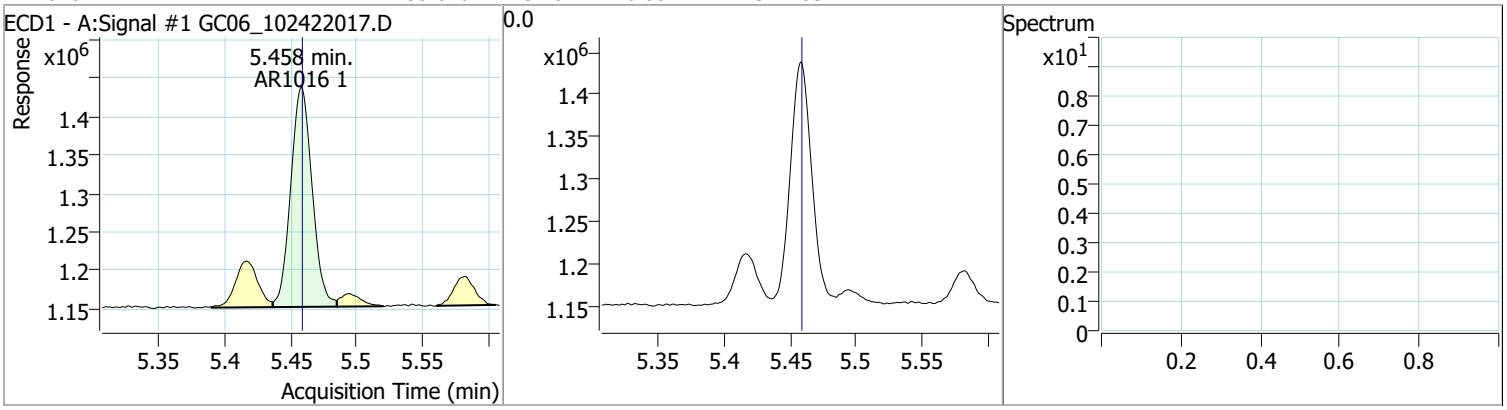
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.458	0.0	322205.369	253.6767	ng/ml		100
T AR1016 2	5.803	0.0	712693.363	266.8112	ng/ml		100
T AR1016 1 #2	6.003	0.0	1331882.363	260.4356	ng/ml		100
T AR1016 3	6.284	0.0	837940.134	260.2036	ng/ml		100
T AR1016 4	6.430	0.0	635327.920	259.3965	ng/ml		100
T AR1016 2 #2	6.448	0.0	1963799.619	266.0119	ng/ml	m	100
T AR1016 5	6.908	0.0	507361.692	257.1827	ng/ml		100
T AR1016 3 #2	7.033	0.0	3371390.470	251.3369	ng/ml	m	100
T AR1016 4 #2	7.223	0.0	2521917.084	263.3511	ng/ml		100
T AR1016 5 #2	7.963	0.0	2051369.275	263.5364	ng/ml		100
T AR1260 1	8.879	0.0	1022403.707	249.6095	ng/ml		100
T AR1260 2	9.338	0.0	1586842.083	254.1774	ng/ml		100
T AR1260 3	9.751	0.0	1640631.734	251.4243	ng/ml		100
T AR1260 1 #2	10.088	0.0	3737278.960	255.2165	ng/ml		100
T AR1260 4	10.218	0.0	994487.770	273.1079	ng/ml		100
T AR1260 2 #2	10.341	0.0	4465148.473	253.7799	ng/ml		100
T AR1260 5	10.578	0.0	2108588.370	272.1624	ng/ml		100
T AR1260 3 #2	10.760	0.0	5581397.012	250.6144	ng/ml		100
T AR1260 4 #2	11.175	0.0	3582855.500	269.4632	ng/ml	m	100
T AR1260 5 #2	11.874	0.0	5338056.869	269.7608	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

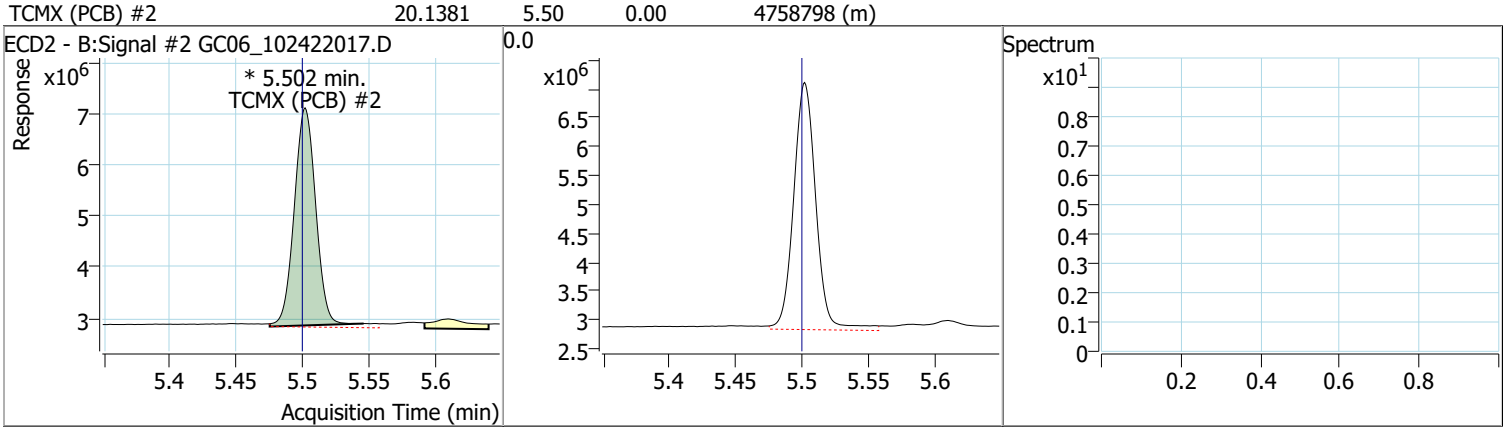
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	20.0110	5.10	0.00	1165547				



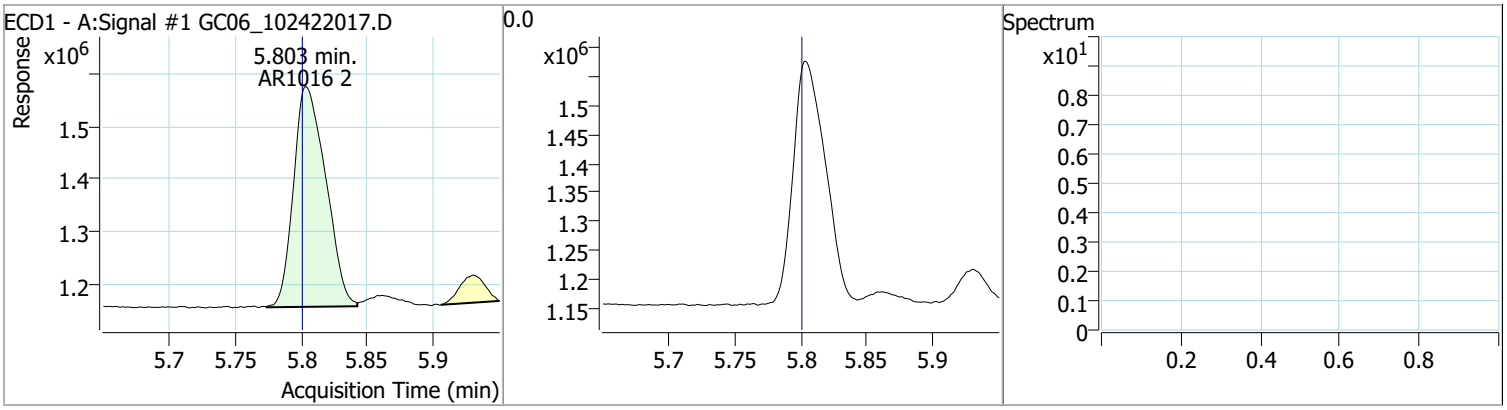
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	253.6767	5.46	0.00	322205				



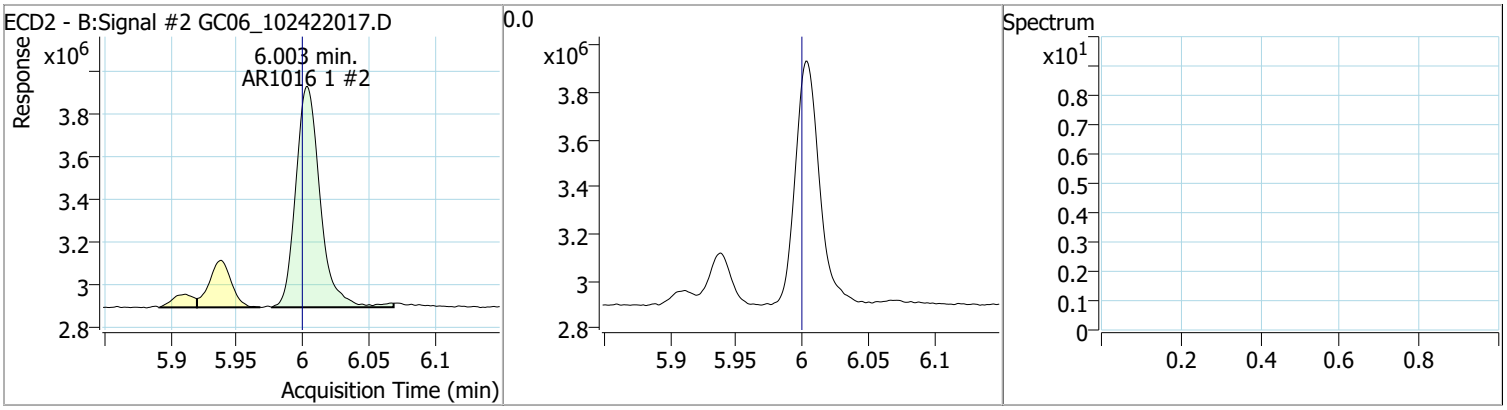
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	20.1381	5.50	0.00	4758798 (m)				



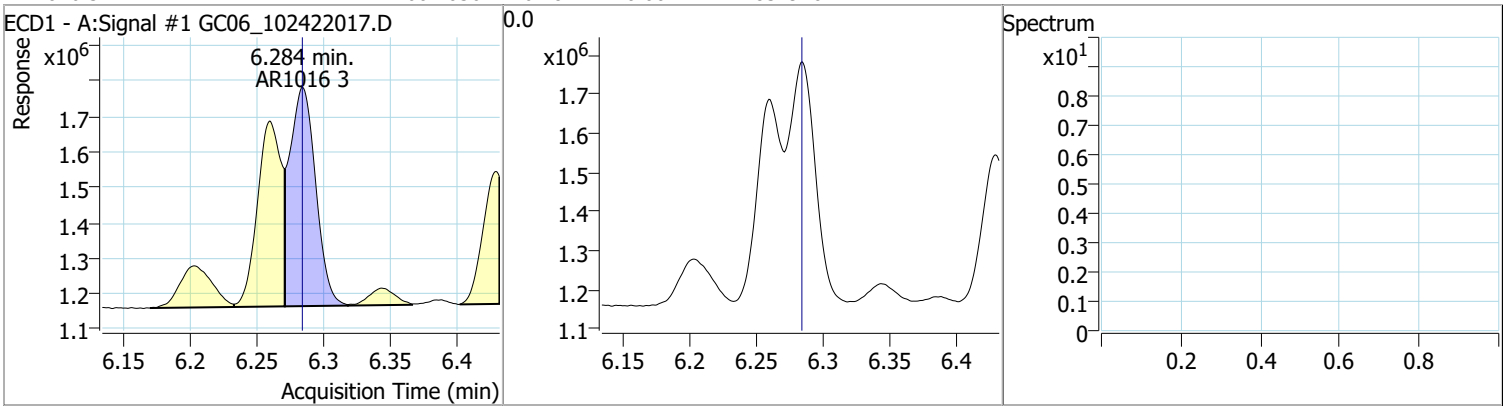
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	266.8112	5.80	0.00	712693				



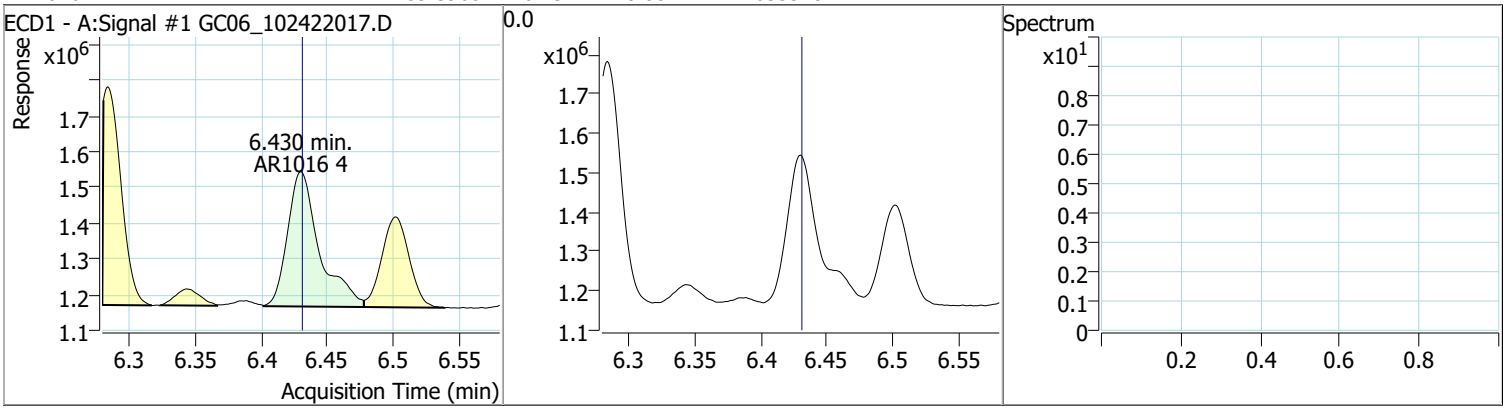
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	260.4356	6.00	0.00	1331882				



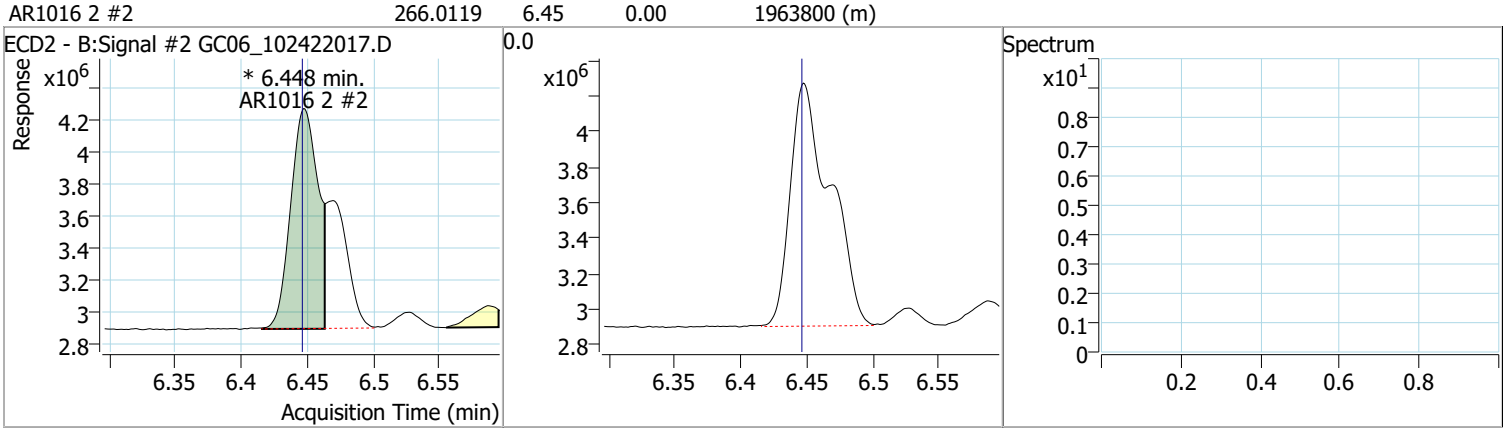
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	260.2036	6.28	0.00	837940				



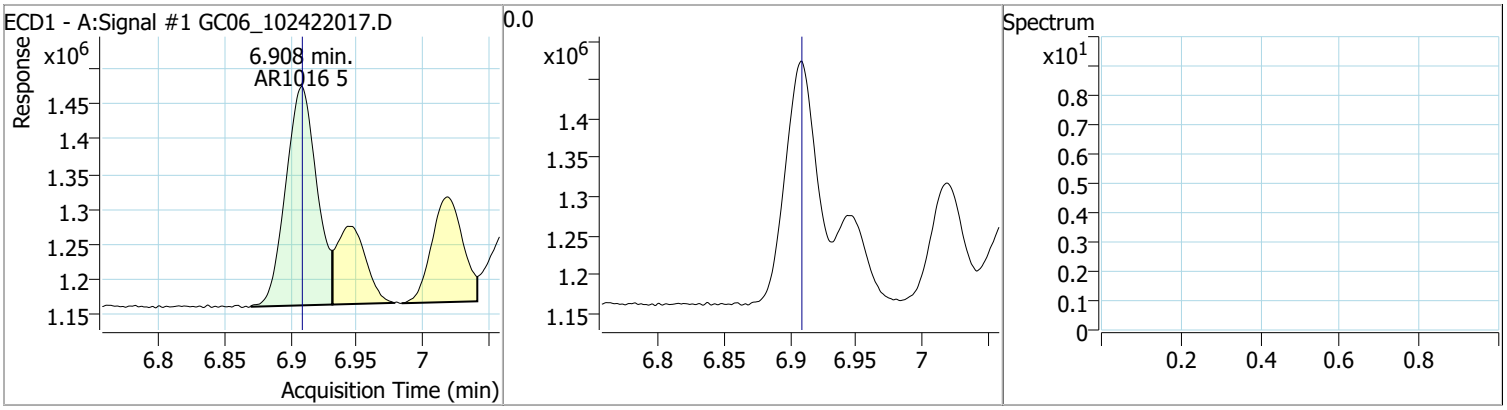
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	259.3965	6.43	0.00	635328				



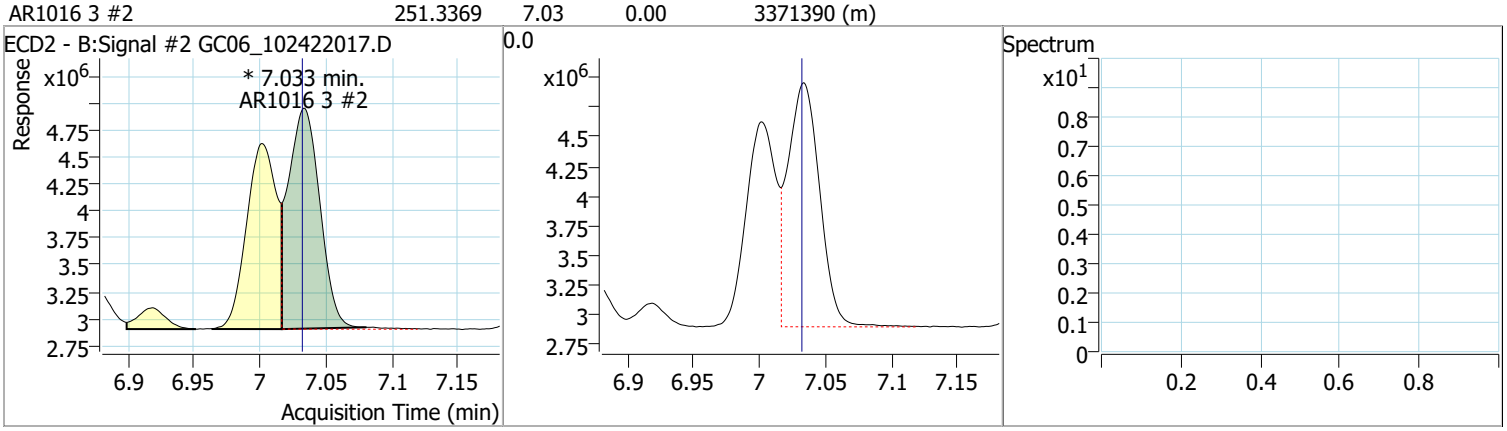
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	266.0119	6.45	0.00	1963800 (m)				



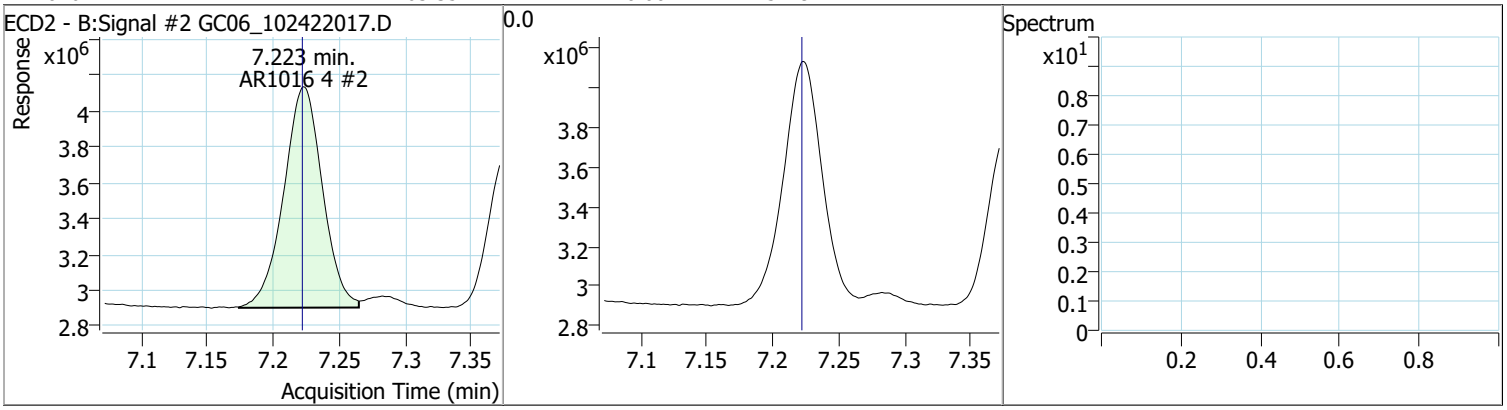
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	257.1827	6.91	0.00	507362				



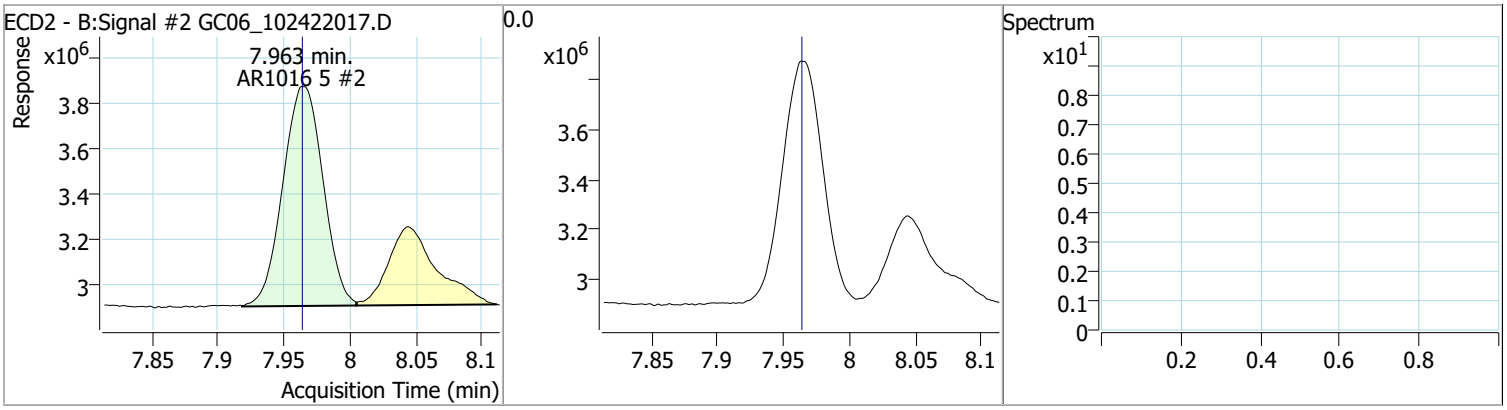
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	251.3369	7.03	0.00	3371390 (m)				



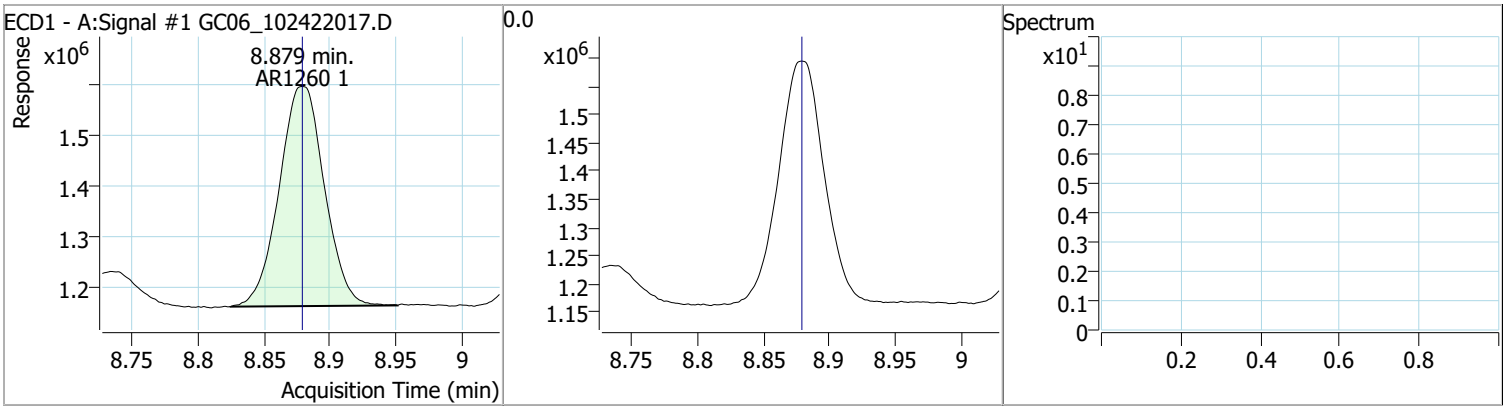
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AR1016 4 #2	263.3511	7.22	0.00	2521917				



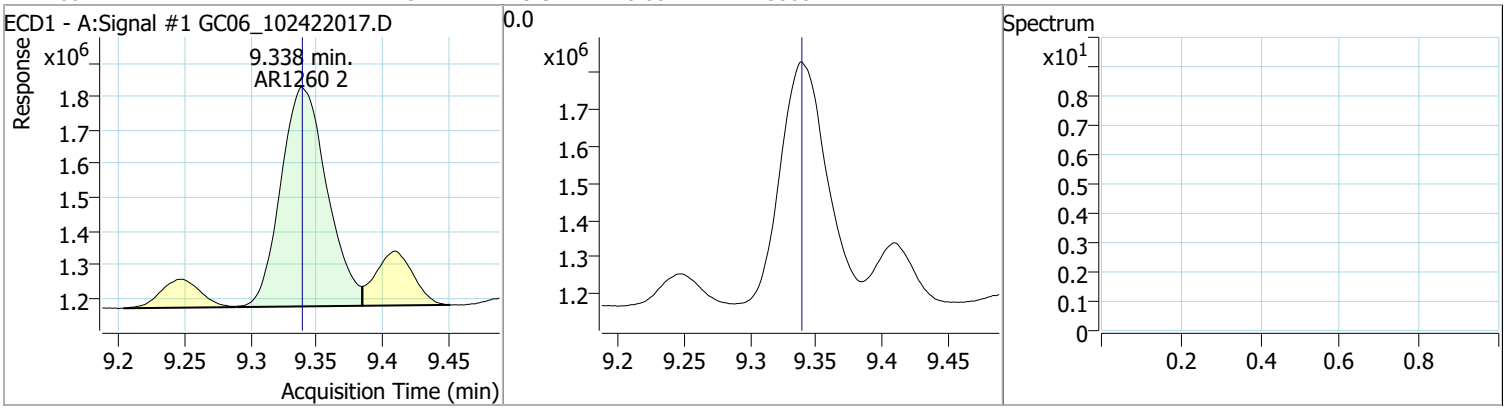
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	263.5364	7.96	0.00	2051369				



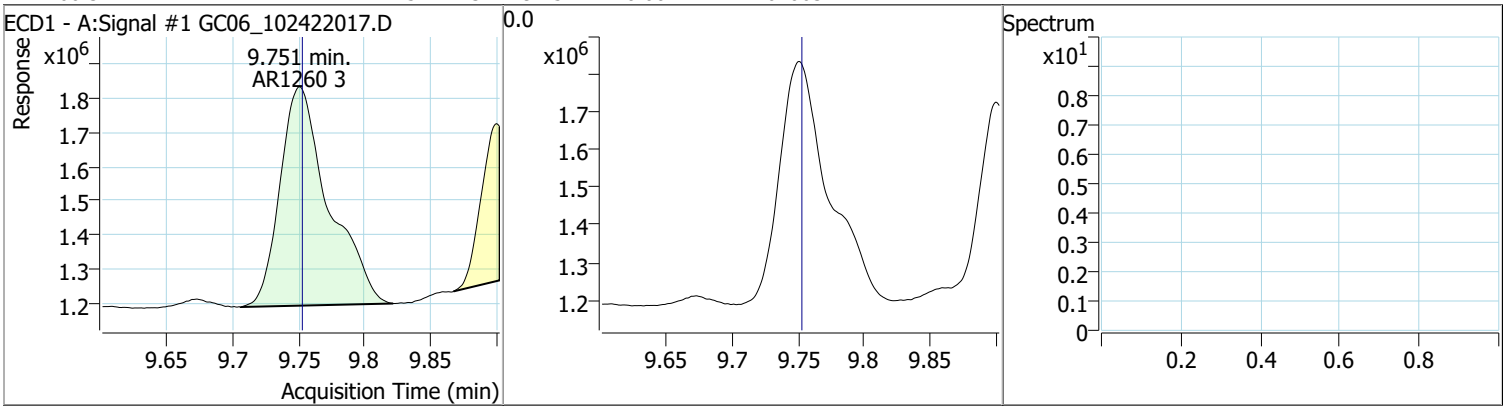
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	249.6095	8.88	0.00	1022404				



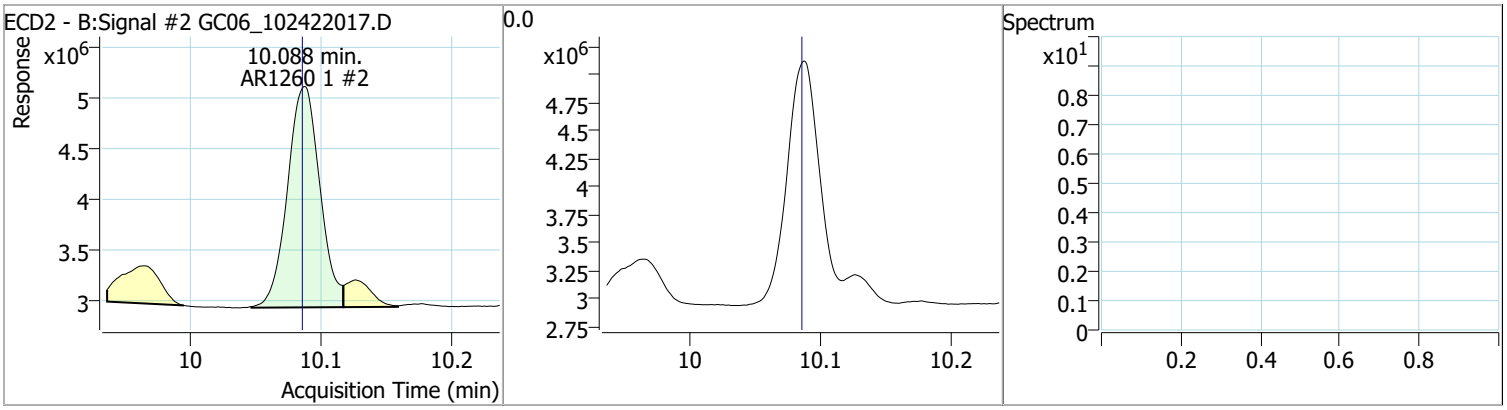
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	254.1774	9.34	0.00	1586842				



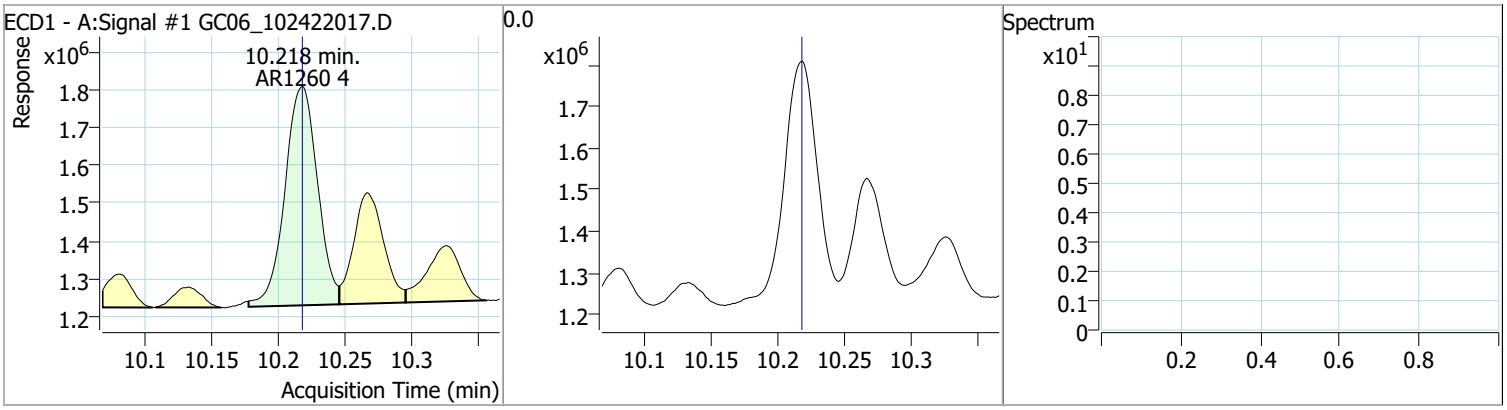
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	251.4243	9.75	0.00	1640632				



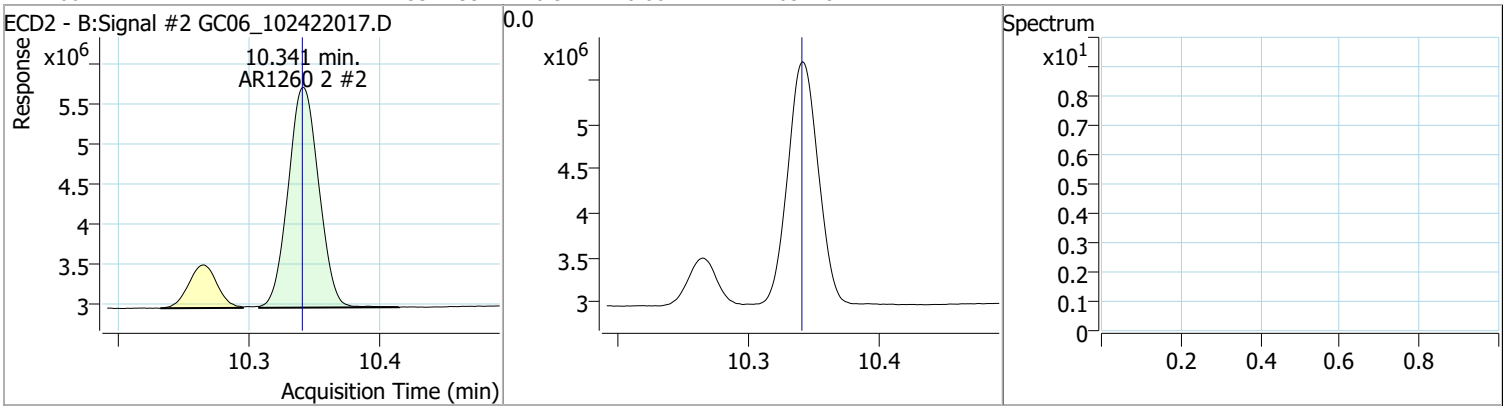
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	255.2165	10.09	0.00	3737279				



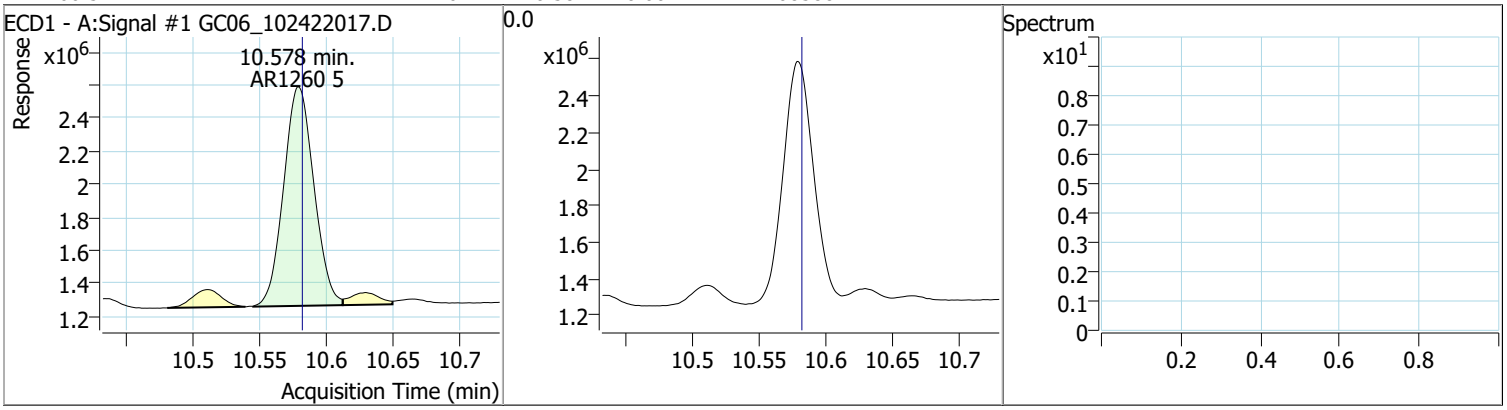
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	273.1079	10.22	0.00	994488				



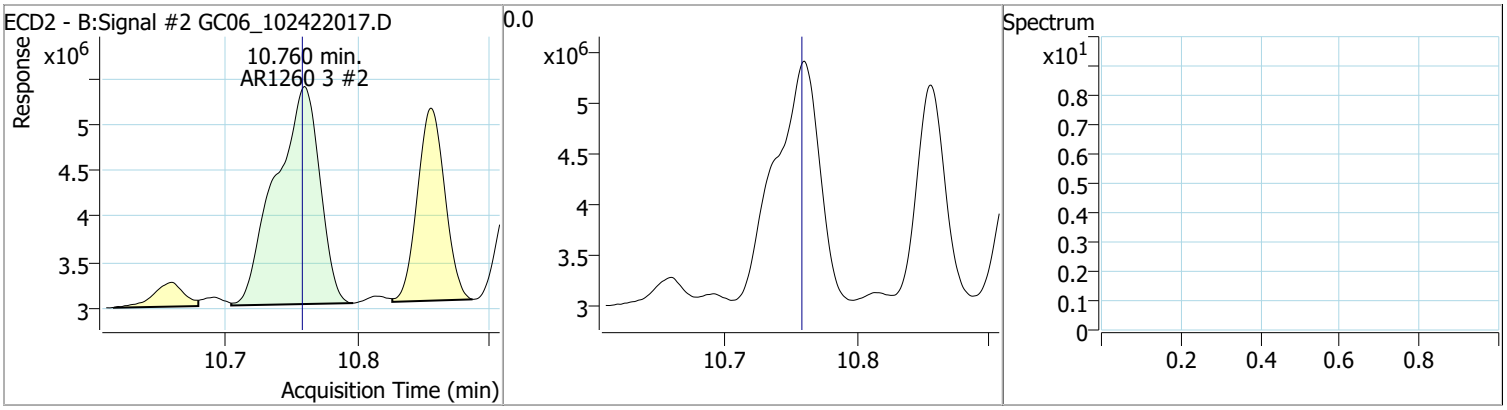
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	253.7799	10.34	0.00	4465148				



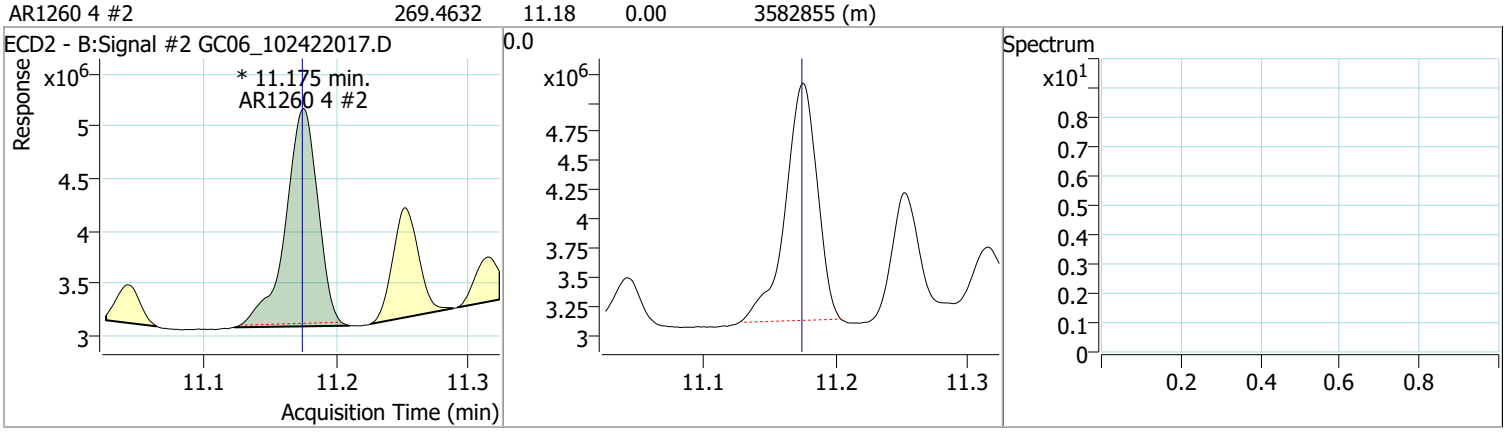
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	272.1624	10.58	0.00	2108588				



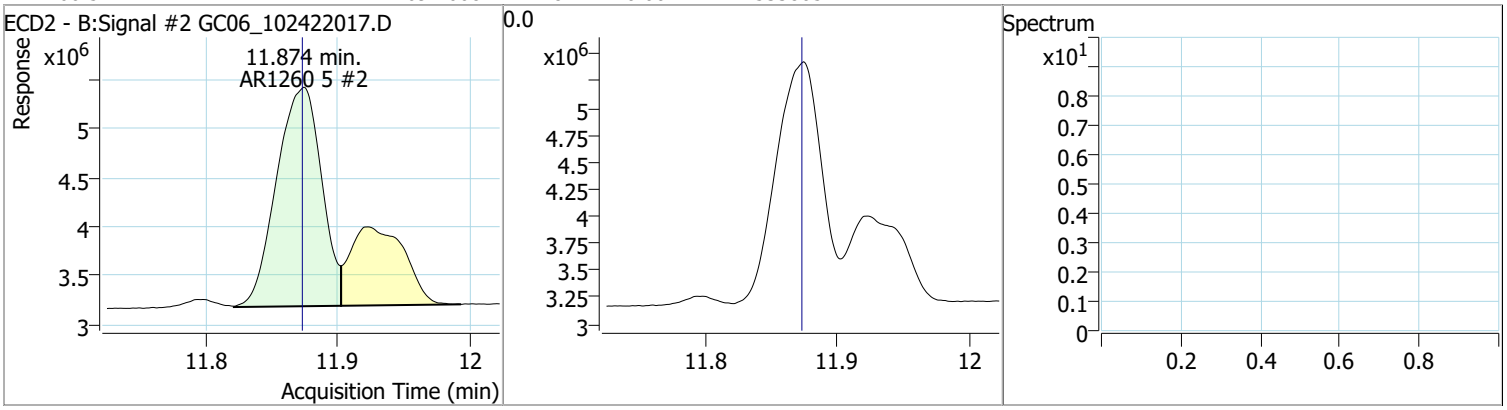
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	250.6144	10.76	0.00	5581397				



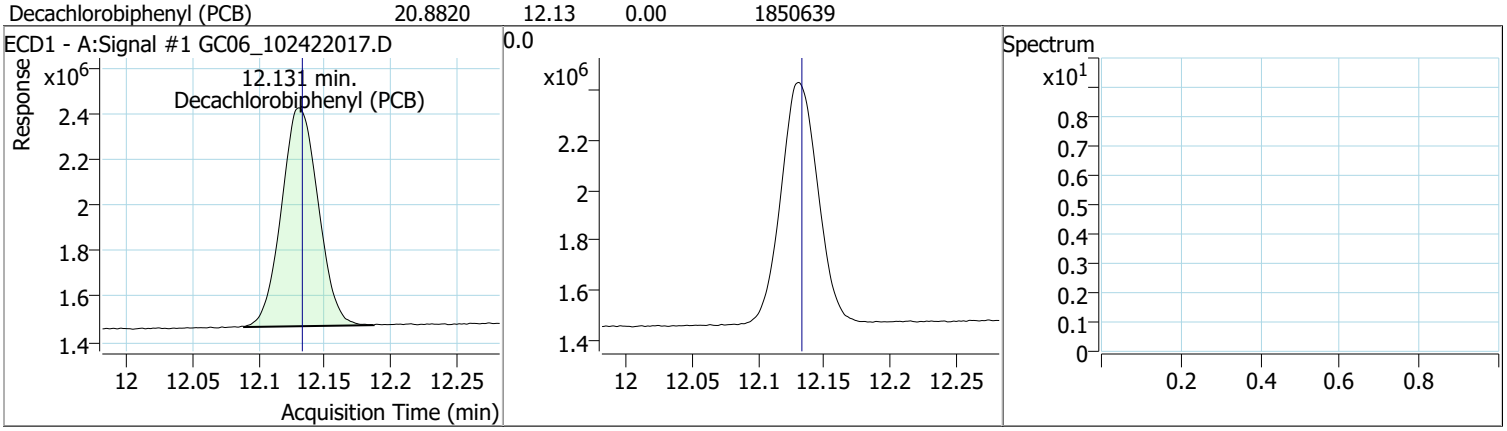
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	269.4632	11.18	0.00	3582855 (m)				



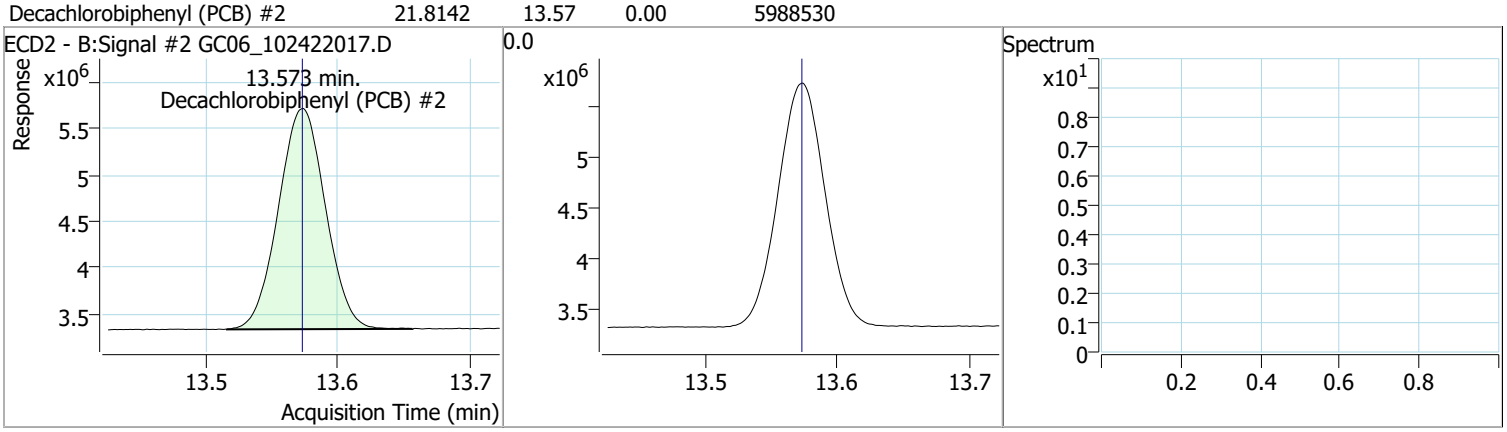
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	269.7608	11.87	0.00	5338057				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	20.8820	12.13	0.00	1850639				

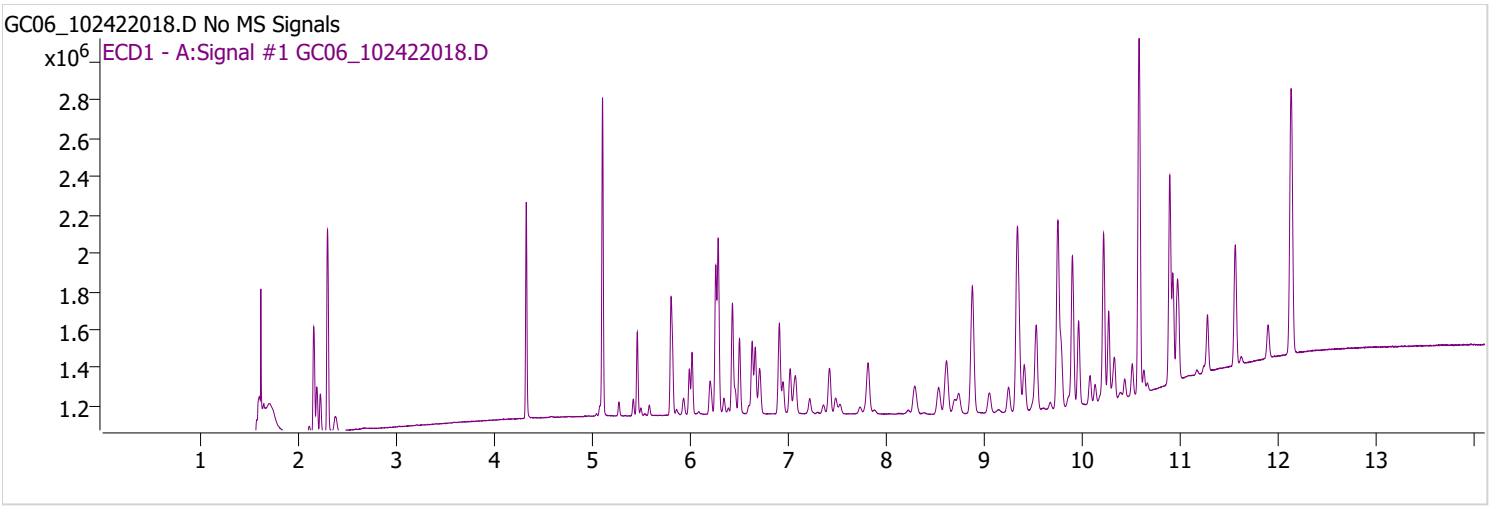


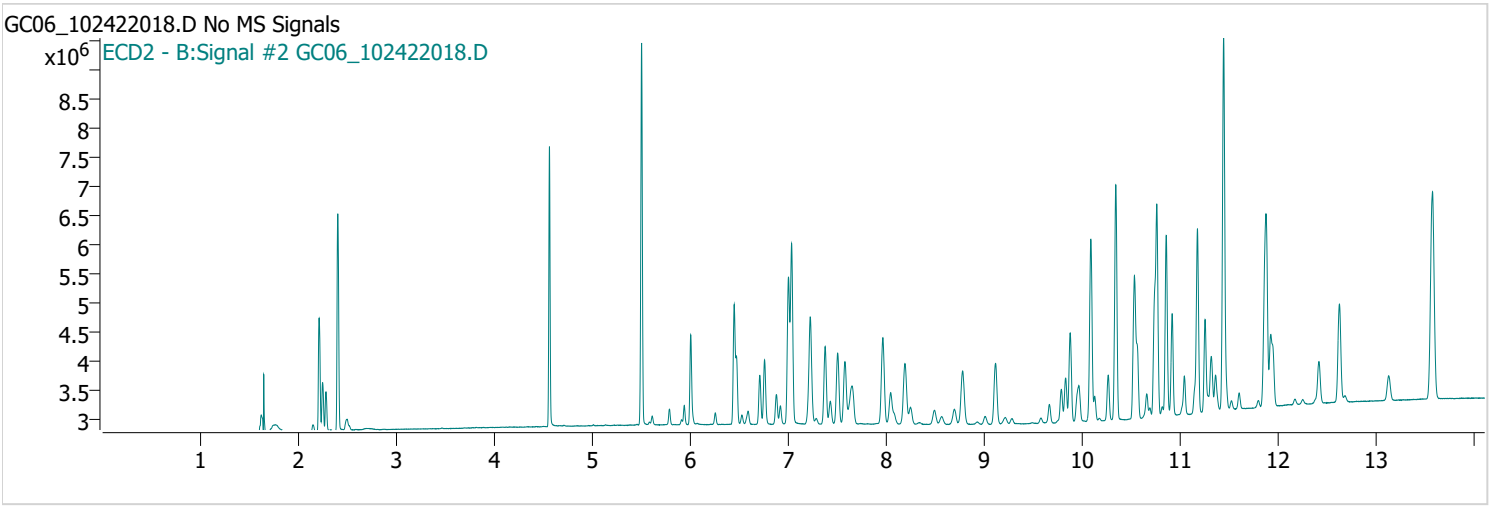
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	21.8142	13.57	0.00	5988530				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422018.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 6:38:01 PM
Sample Name	ICAL, S17267	Instrument	SVOA-GC06
Vial	15	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



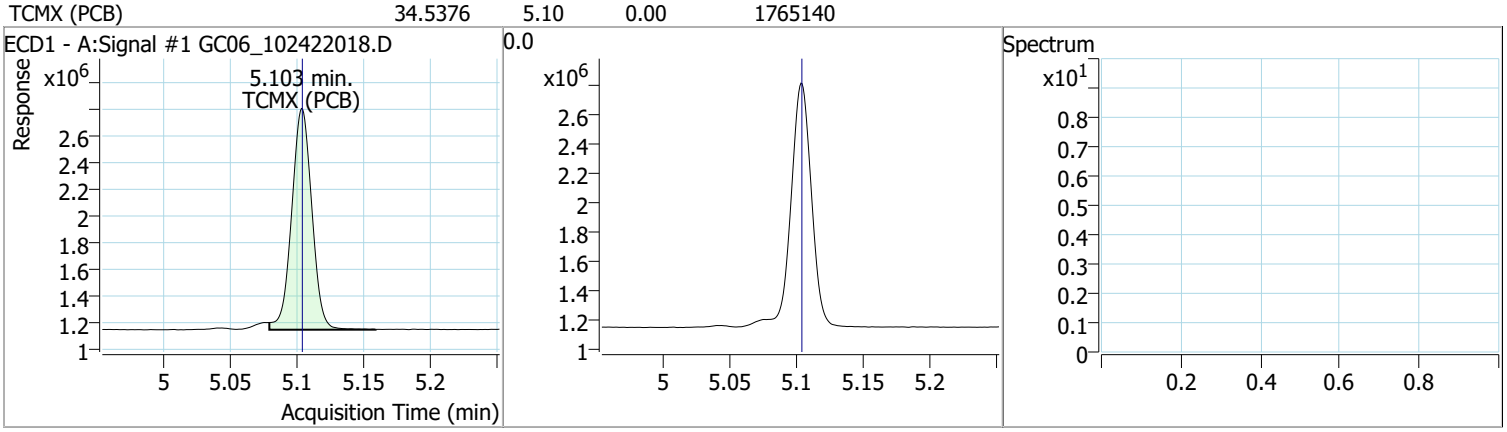


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1063014.245	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	4327999.304	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	1765140.014	34.5376	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 172.69%		*	
S TCMX (PCB) #2	5.503	0.0	7185282.107	34.5695	ng/ml		0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 172.85%		*	
S Decachlorobiphenyl (PCB)	12.132	0.0	2792824.739	39.0257	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 195.13%		*	
S Decachlorobiphenyl (PCB) #2	13.575	0.0	9183894.715	39.6055	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 198.03%		*	
Target Compounds							QValue

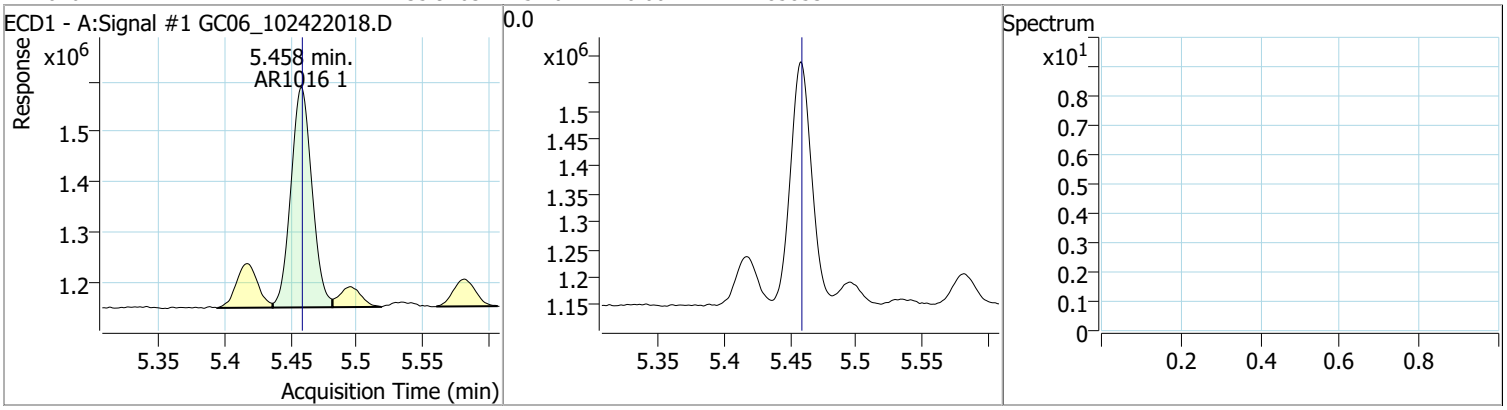
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.458	0.0	485852.867	435.9403	ng/ml		100
T AR1016 2	5.803	0.0	1068389.956	466.7356	ng/ml		100
T AR1016 1 #2	6.003	0.0	2046877.373	455.0453	ng/ml		100
T AR1016 3	6.283	0.0	1246552.904	441.1492	ng/ml		100
T AR1016 4	6.430	0.0	958287.349	445.8988	ng/ml		100
T AR1016 2 #2	6.448	0.0	2839339.245	437.2699	ng/ml	m	100
T AR1016 5	6.908	0.0	776873.262	448.7957	ng/ml		100
T AR1016 3 #2	7.033	0.0	5153170.052	436.7672	ng/ml		100
T AR1016 4 #2	7.223	0.0	3762341.264	446.6742	ng/ml		100
T AR1016 5 #2	7.965	0.0	3081651.312	450.0997	ng/ml		100
T AR1260 1	8.878	0.0	1535144.810	427.1323	ng/ml		100
T AR1260 2	9.338	0.0	2395142.001	437.2290	ng/ml		100
T AR1260 3	9.752	0.0	2465753.437	430.6459	ng/ml		100
T AR1260 1 #2	10.088	0.0	5518695.670	428.4678	ng/ml		100
T AR1260 4	10.218	0.0	1491017.295	477.5929	ng/ml		100
T AR1260 2 #2	10.342	0.0	6578337.875	425.0754	ng/ml		100
T AR1260 5	10.581	0.0	3129643.582	472.8847	ng/ml		100
T AR1260 3 #2	10.760	0.0	8315695.484	424.5121	ng/ml		100
T AR1260 4 #2	11.176	0.0	5439717.782	482.3064	ng/ml		100
T AR1260 5 #2	11.875	0.0	8037599.403	475.0785	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

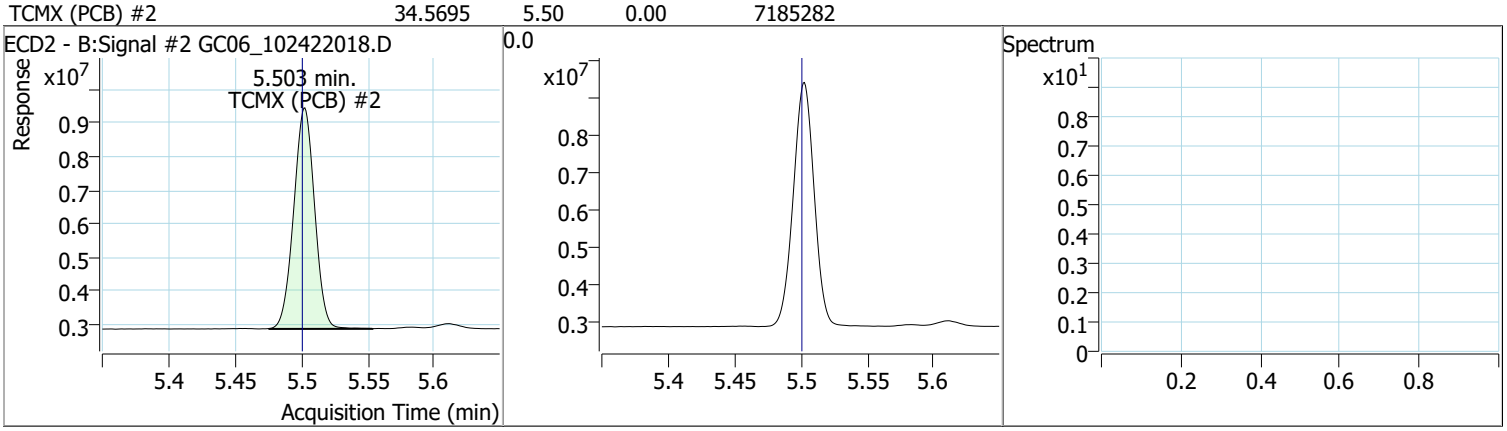
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	34.5376	5.10	0.00	1765140				



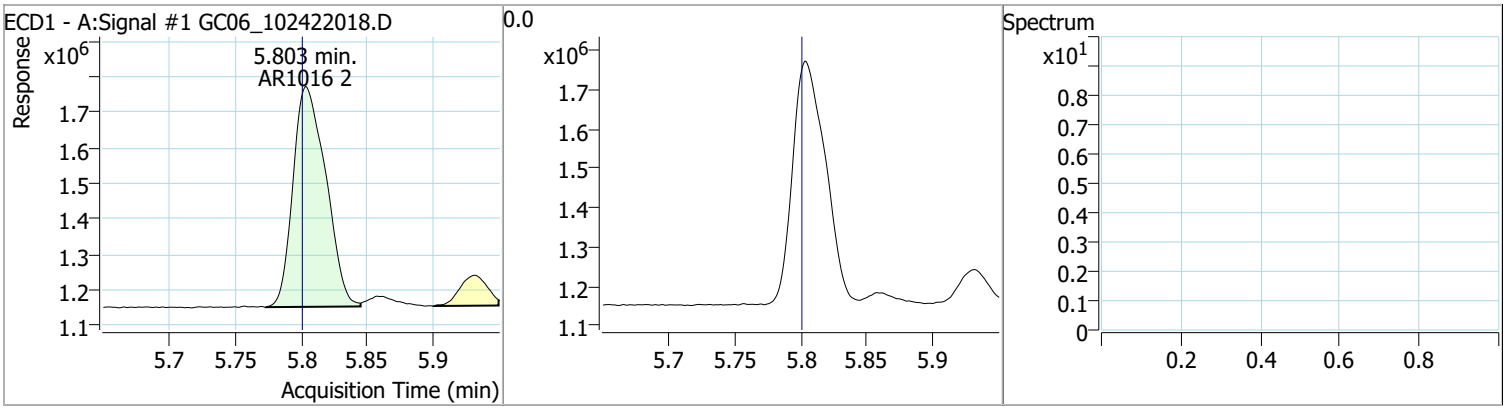
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	435.9403	5.46	0.00	485853				



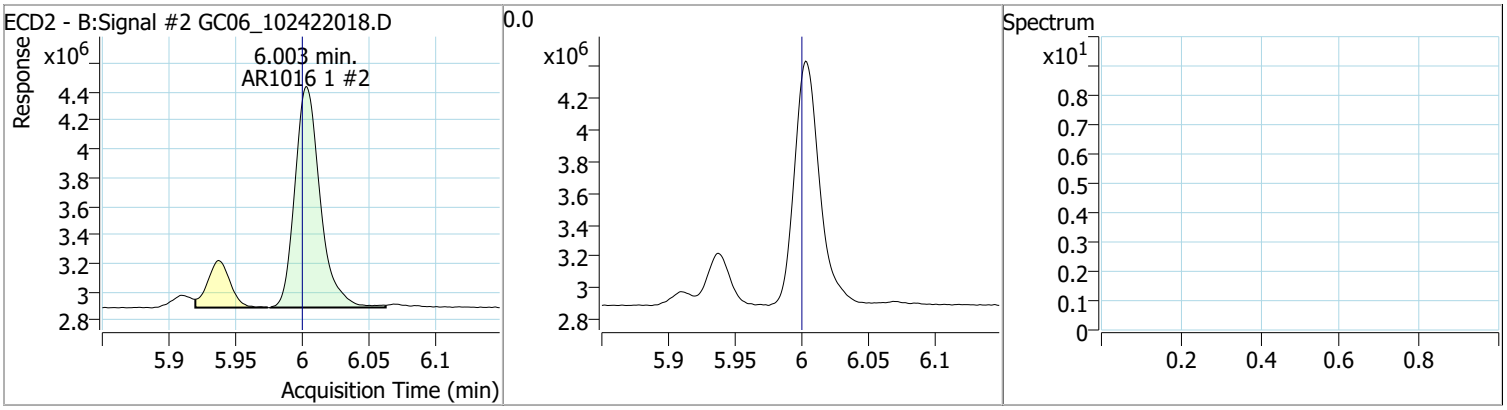
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	34.5695	5.50	0.00	7185282				



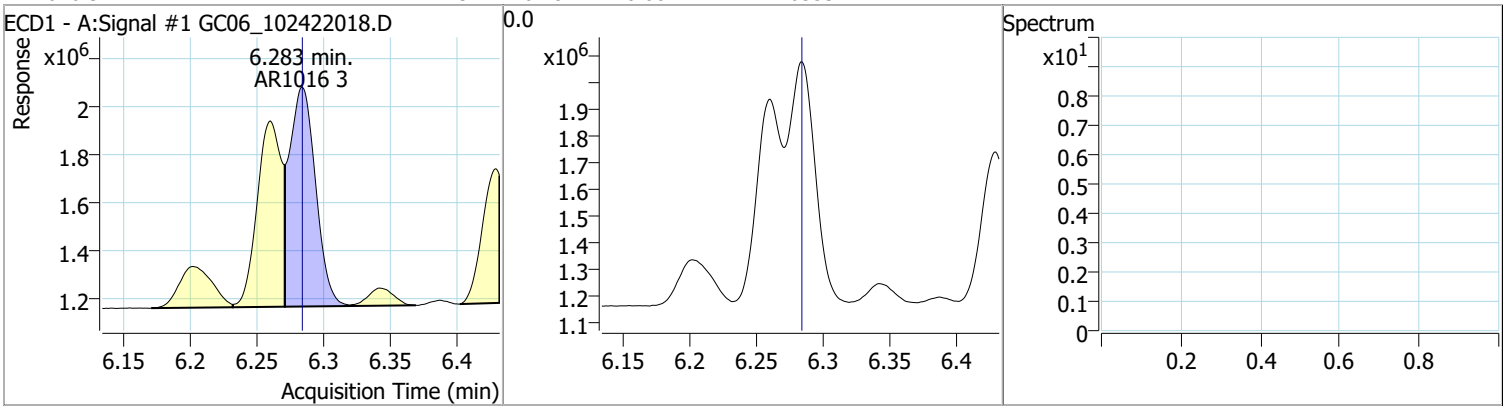
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	466.7356	5.80	0.00	1068390				



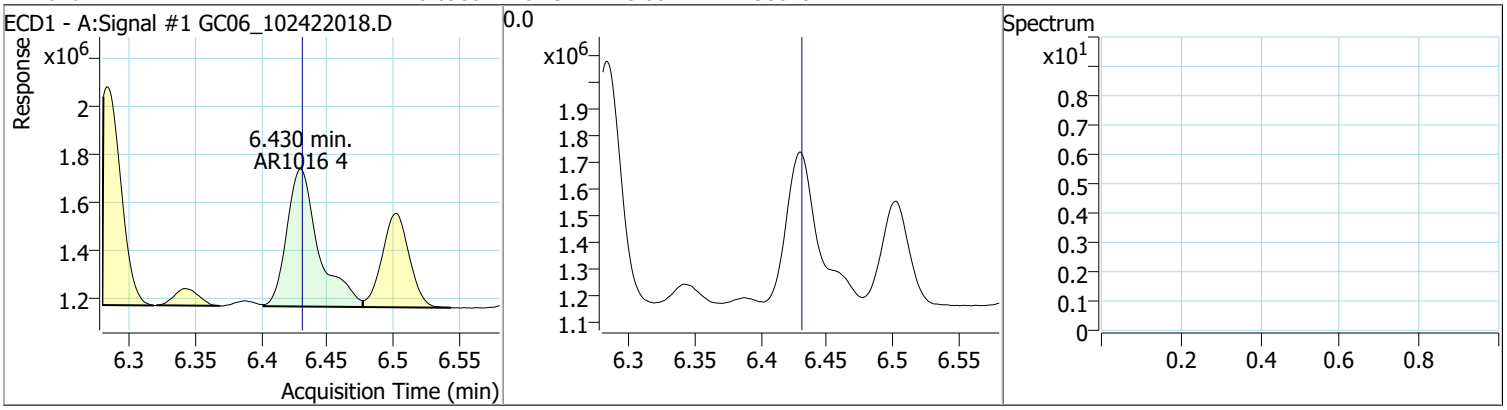
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	455.0453	6.00	0.00	2046877				



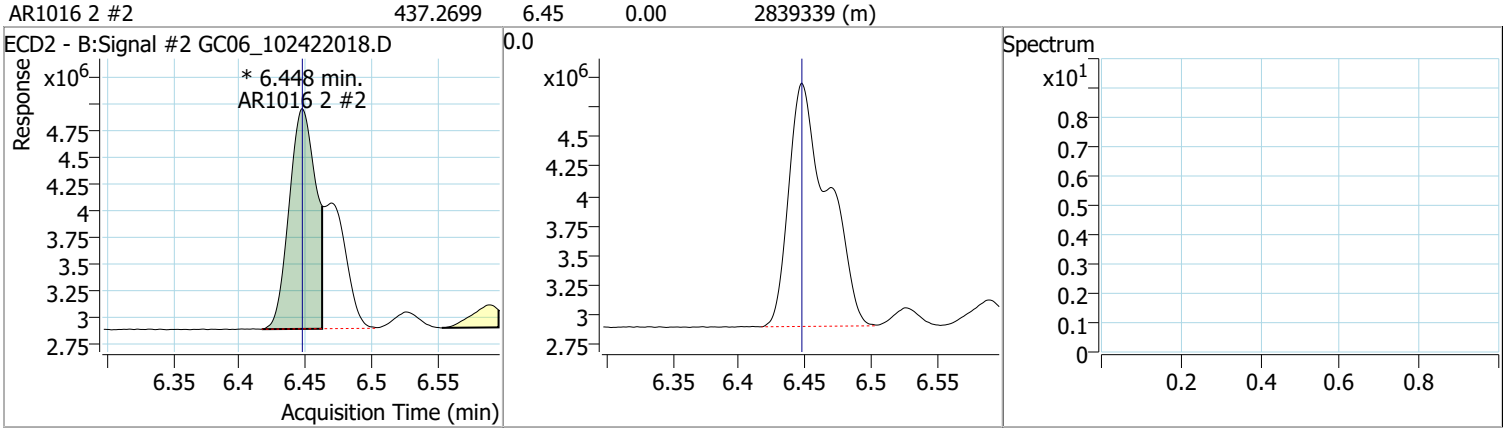
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	441.1492	6.28	0.00	1246553				



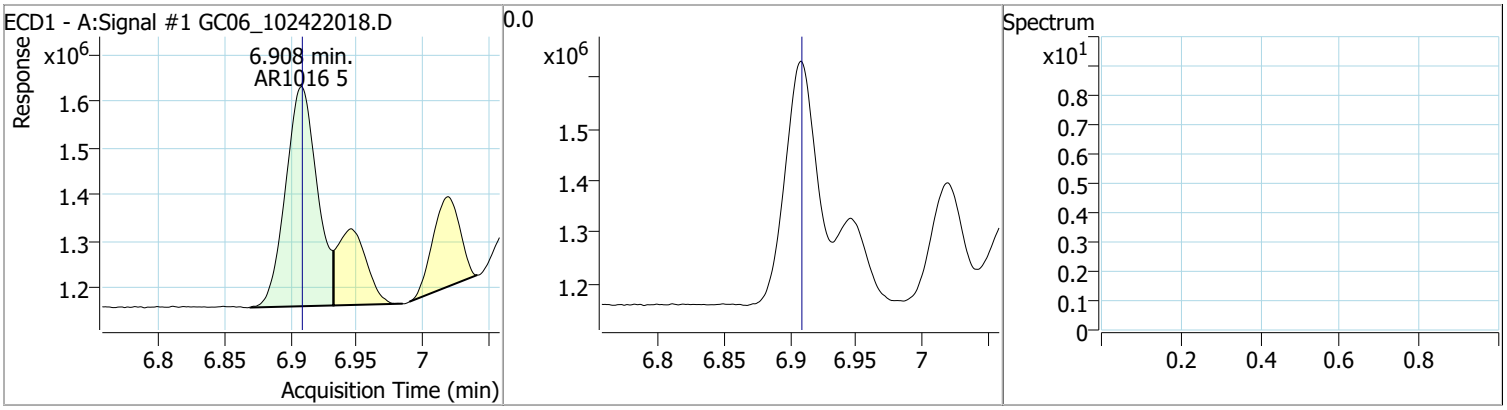
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	445.8988	6.43	0.00	958287				



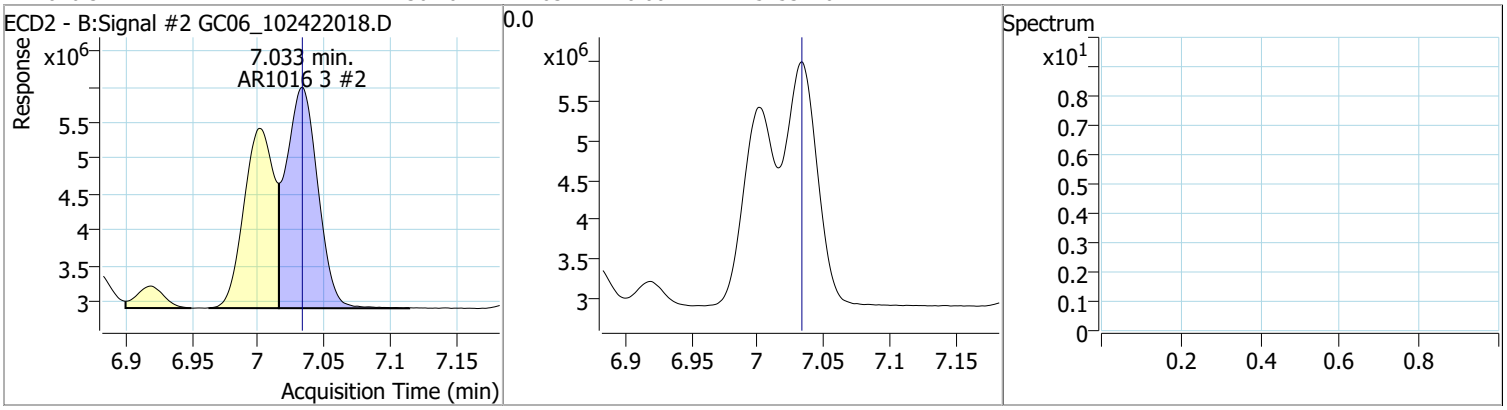
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	437.2699	6.45	0.00	2839339 (m)				



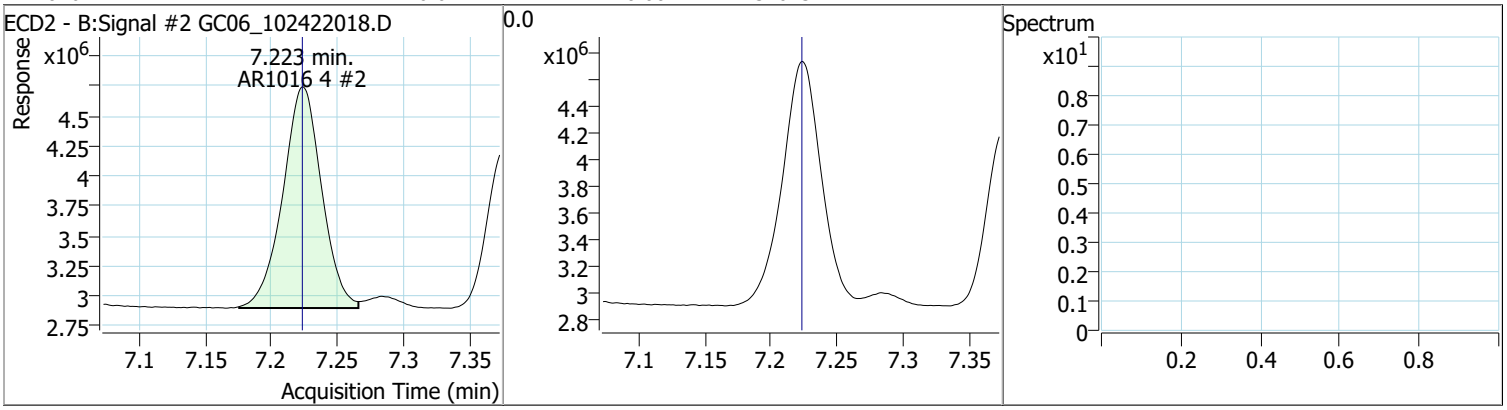
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	448.7957	6.91	0.00	776873				



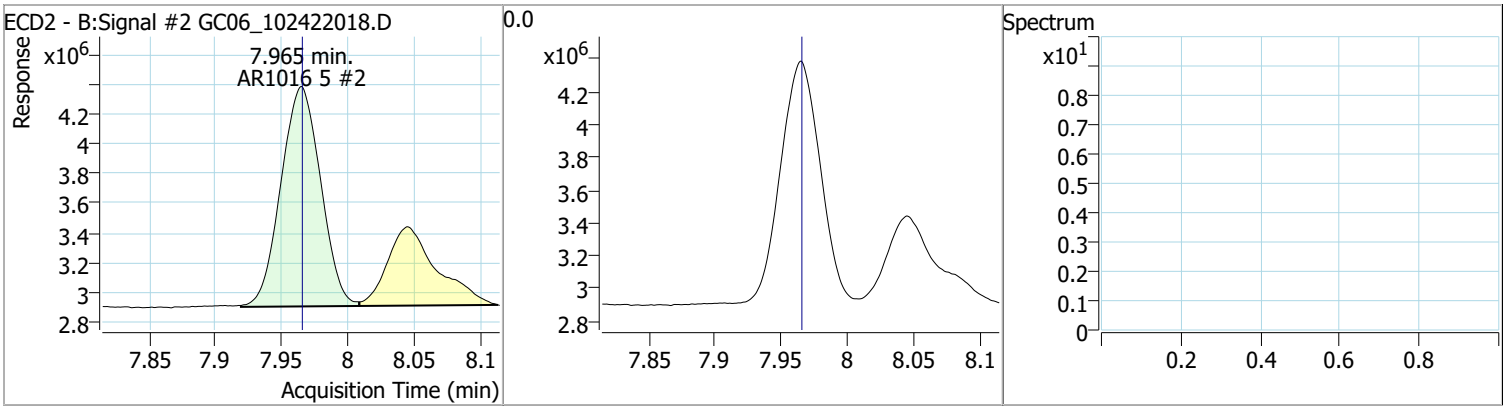
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	436.7672	7.03	0.00	5153170				



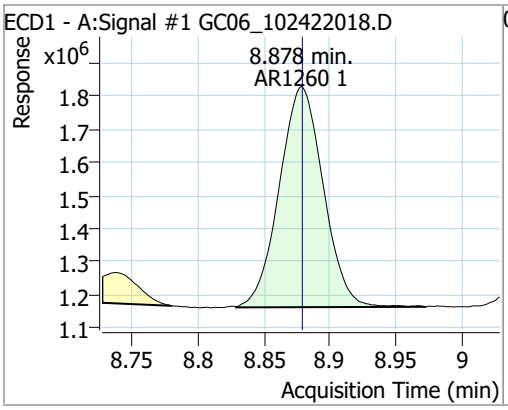
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AR1016 4 #2	446.6742	7.22	0.00	3762341				

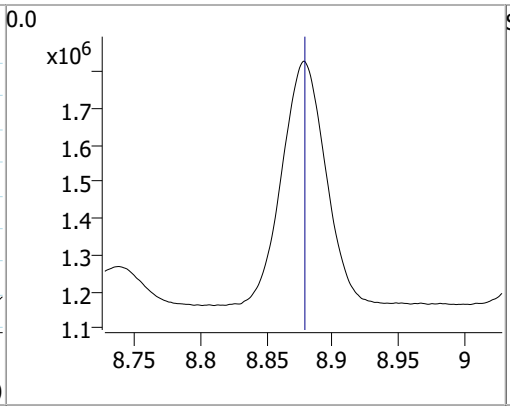


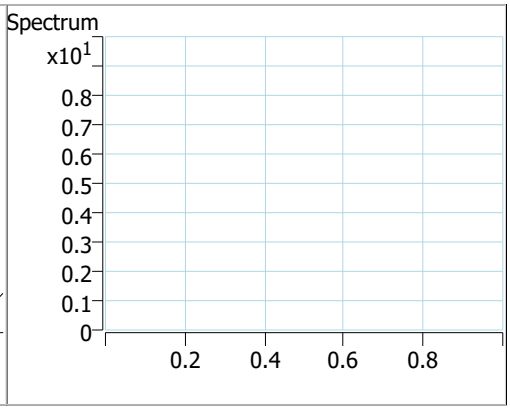
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	450.0997	7.97	0.00	3081651				



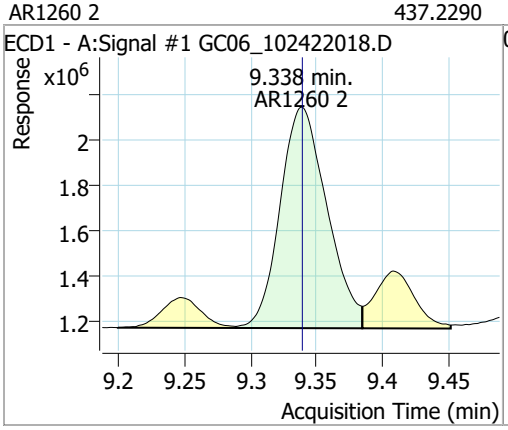
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	427.1323	8.88	0.00	1535145				

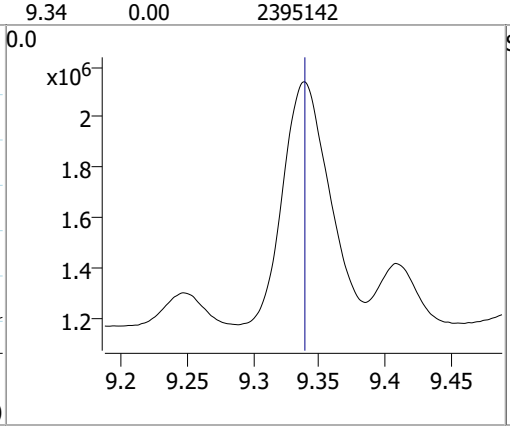


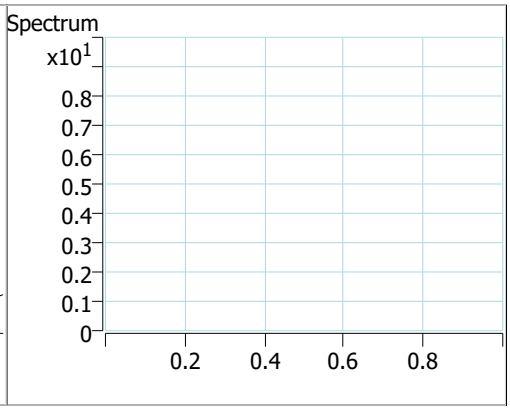




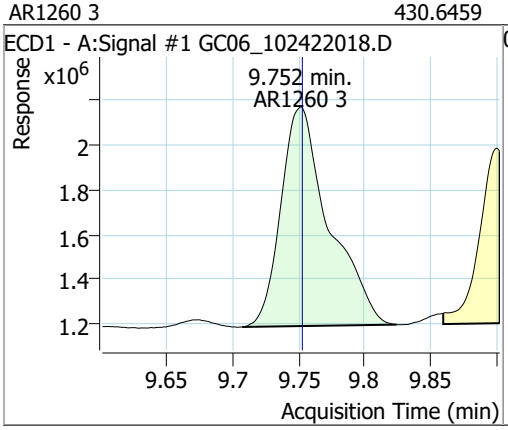
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	437.2290	9.34	0.00	2395142				

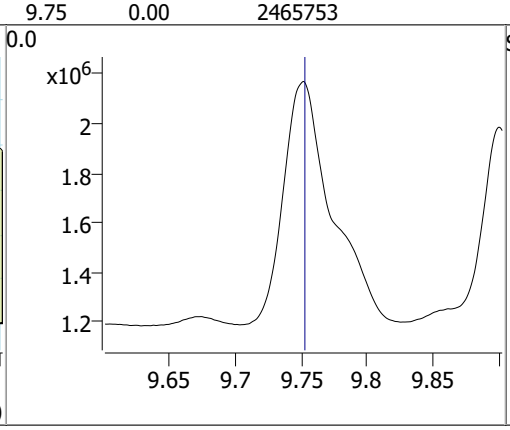


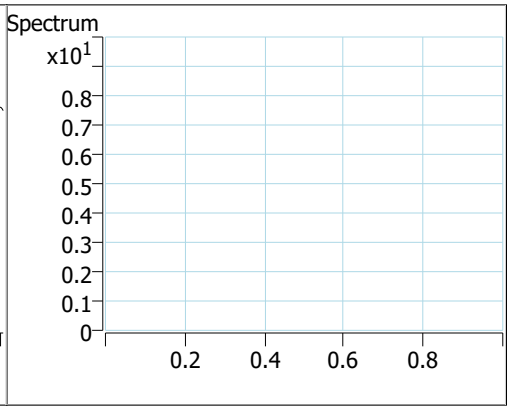




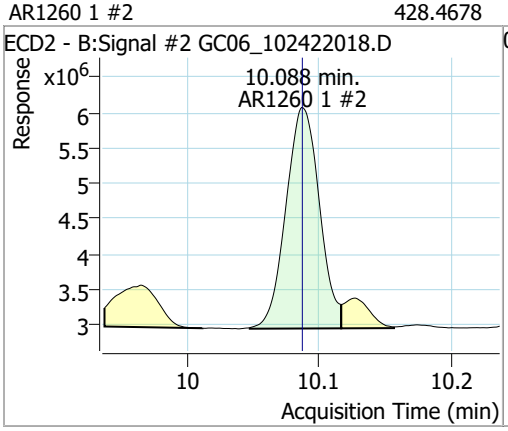
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	430.6459	9.75	0.00	2465753				

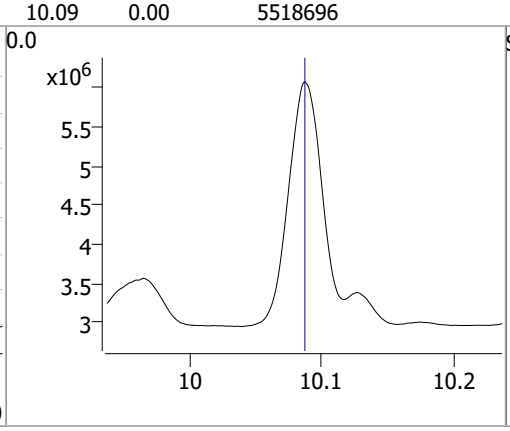


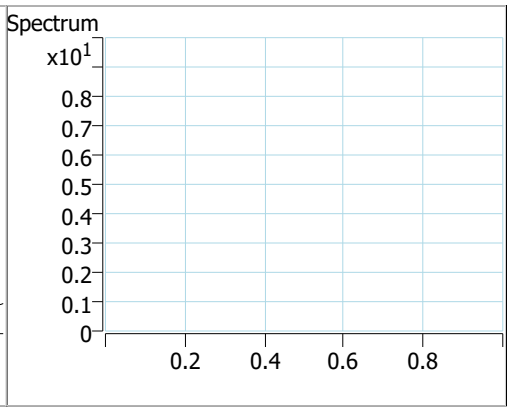




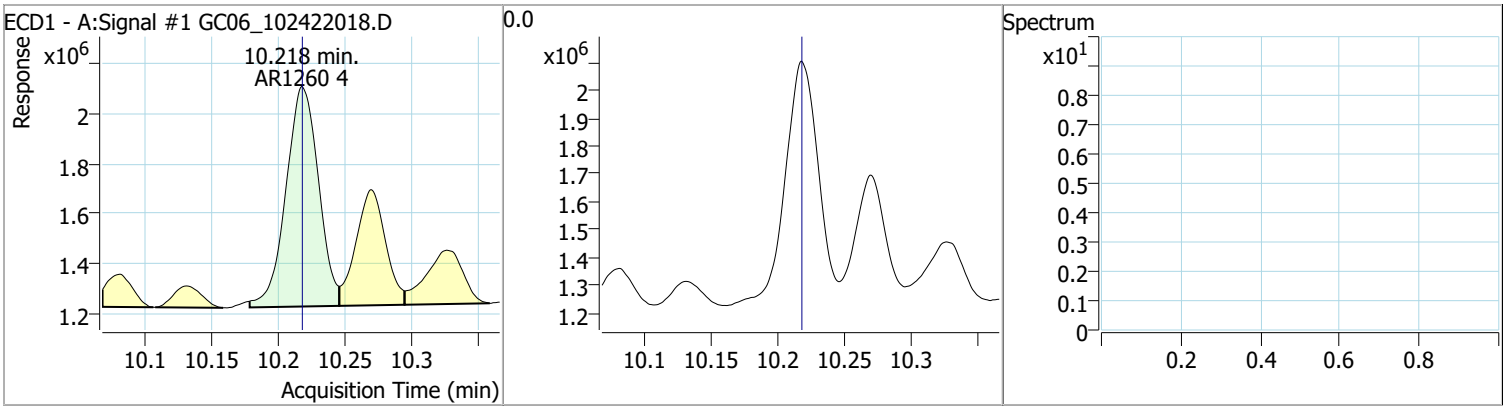
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	428.4678	10.09	0.00	5518696				



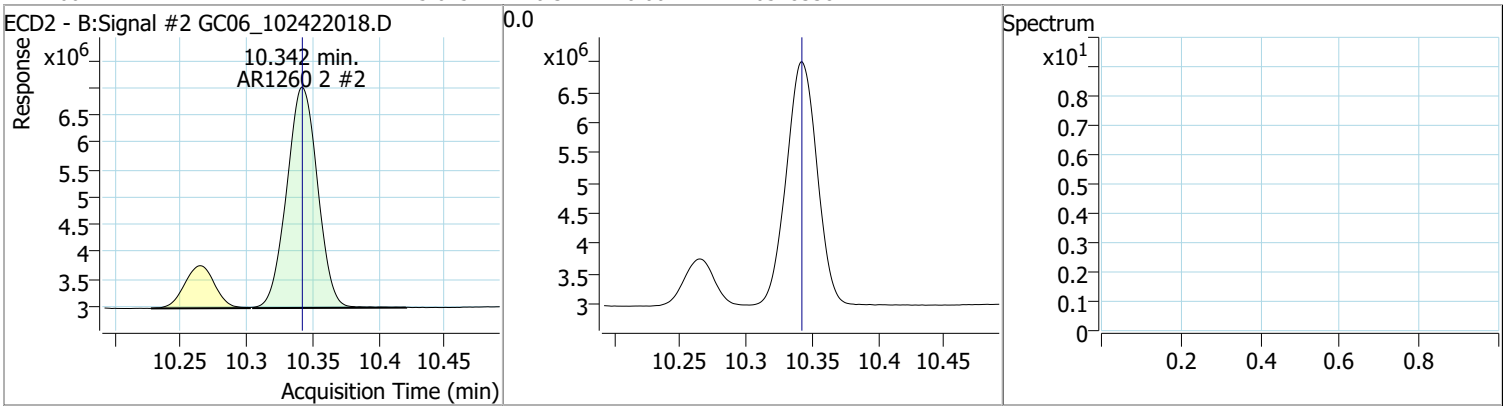




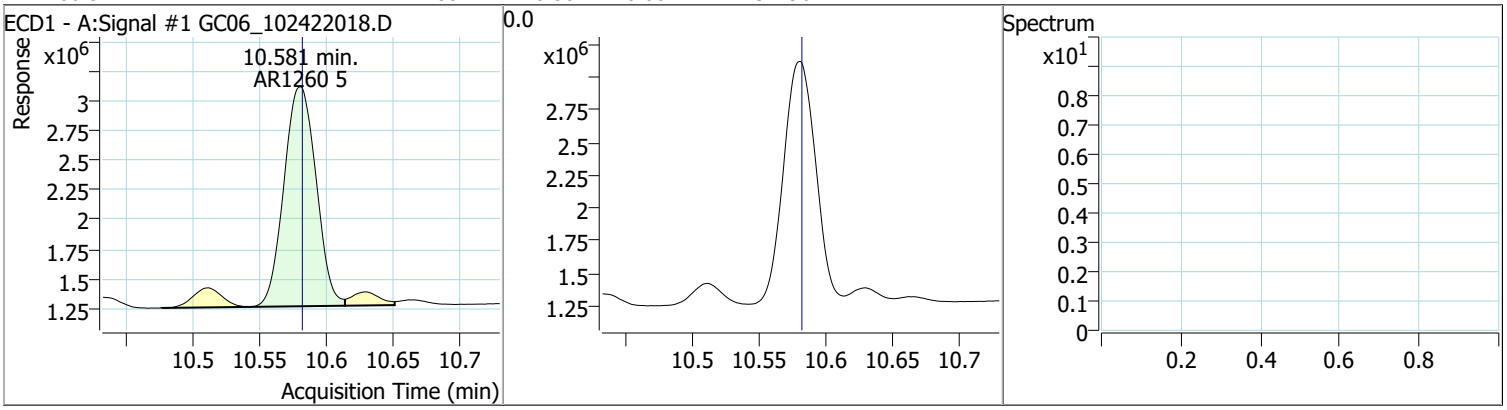
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	477.5929	10.22	0.00	1491017				



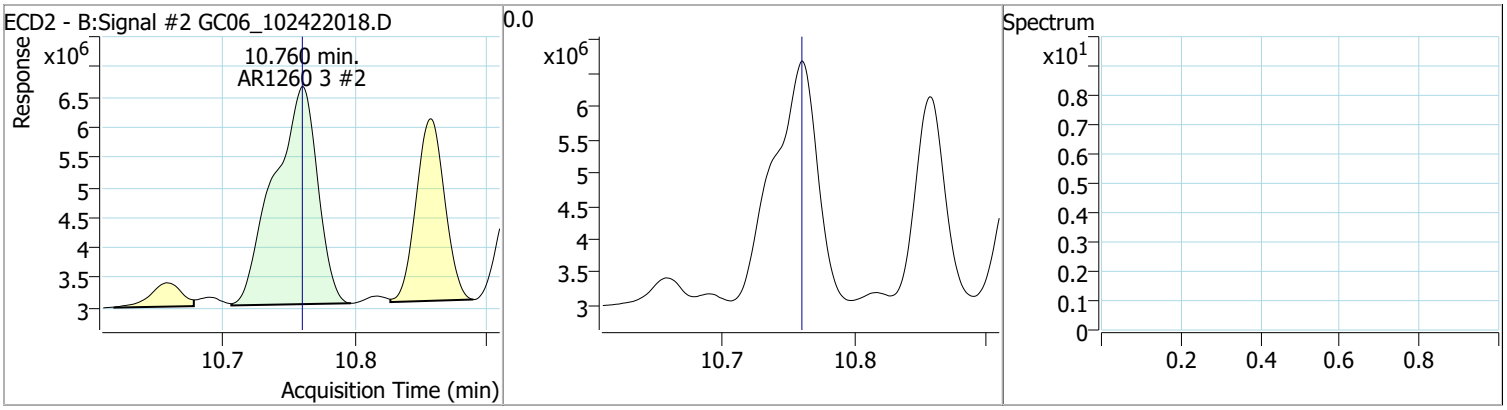
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	425.0754	10.34	0.00	6578338				



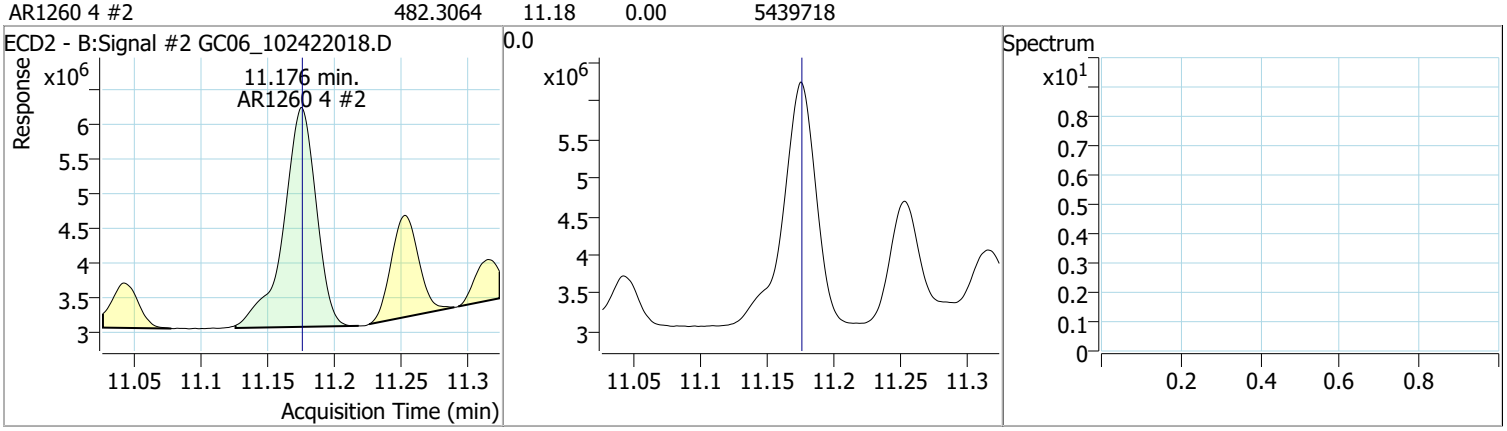
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	472.8847	10.58	0.00	3129644				



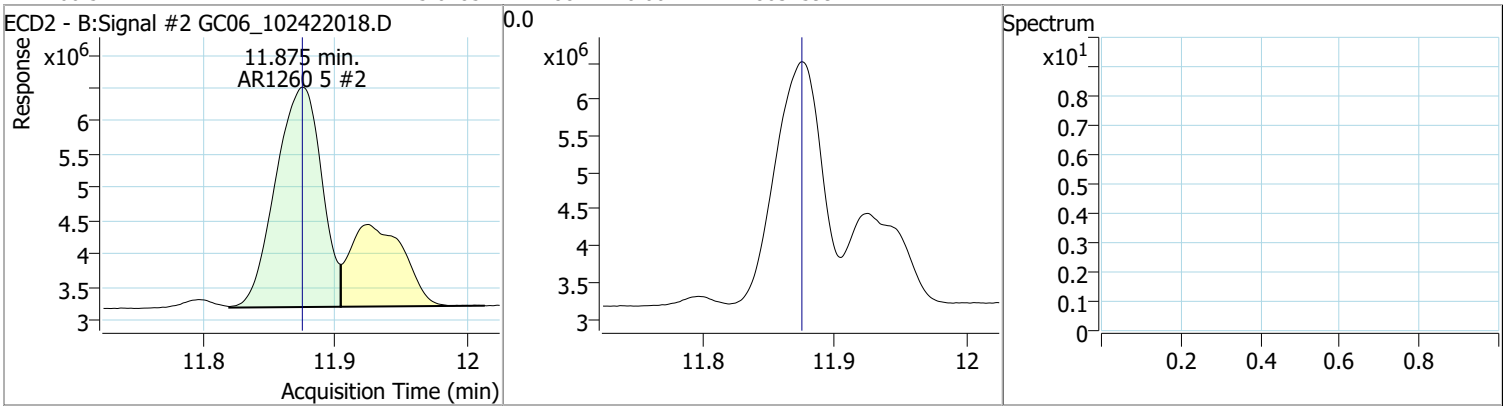
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	424.5121	10.76	0.00	8315695				



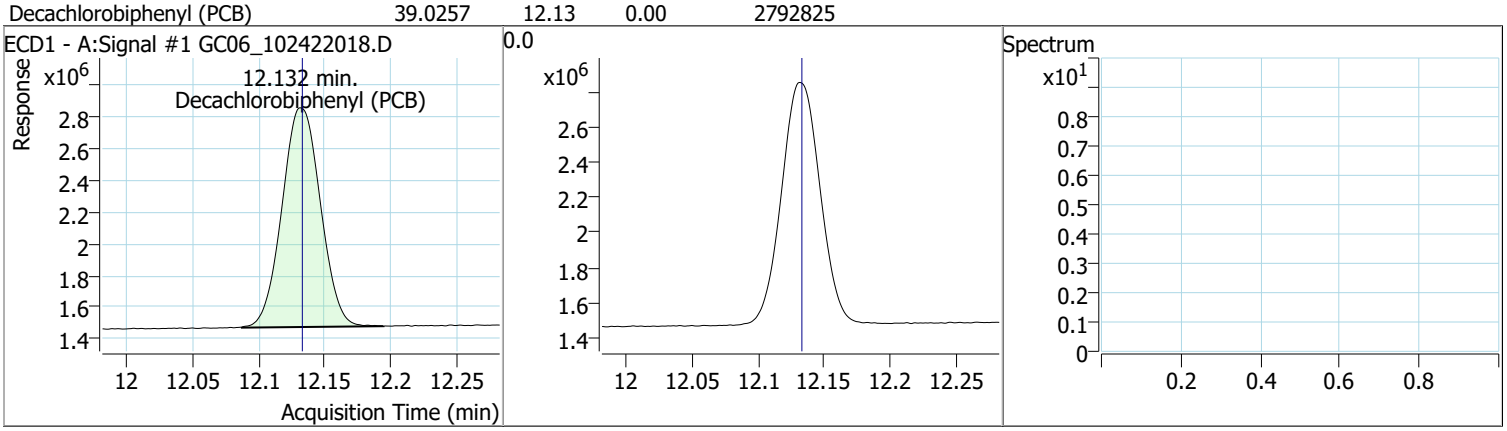
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	482.3064	11.18	0.00	5439718				



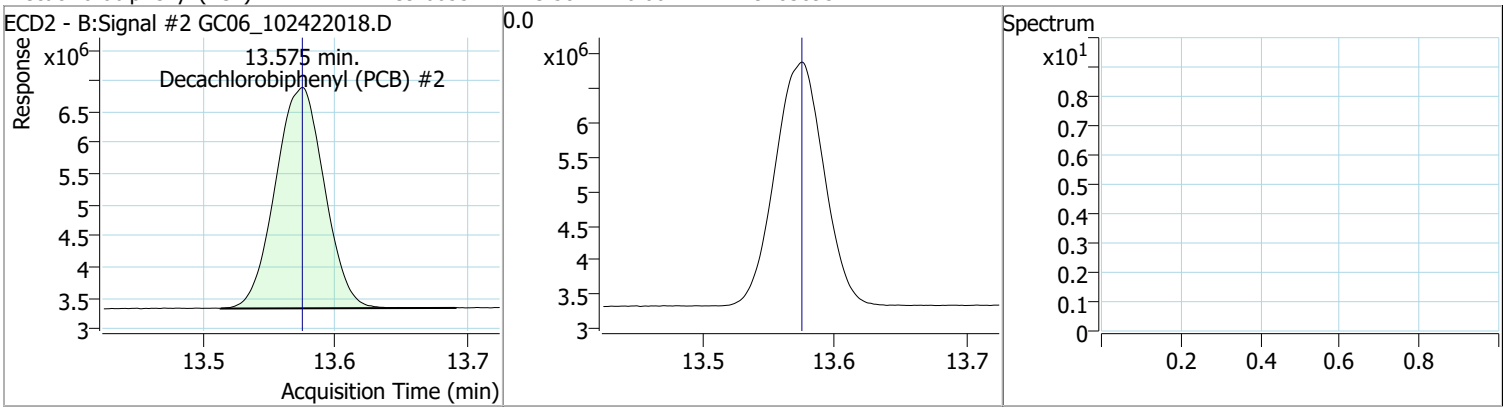
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	475.0785	11.88	0.00	8037599				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	39.0257	12.13	0.00	2792825				

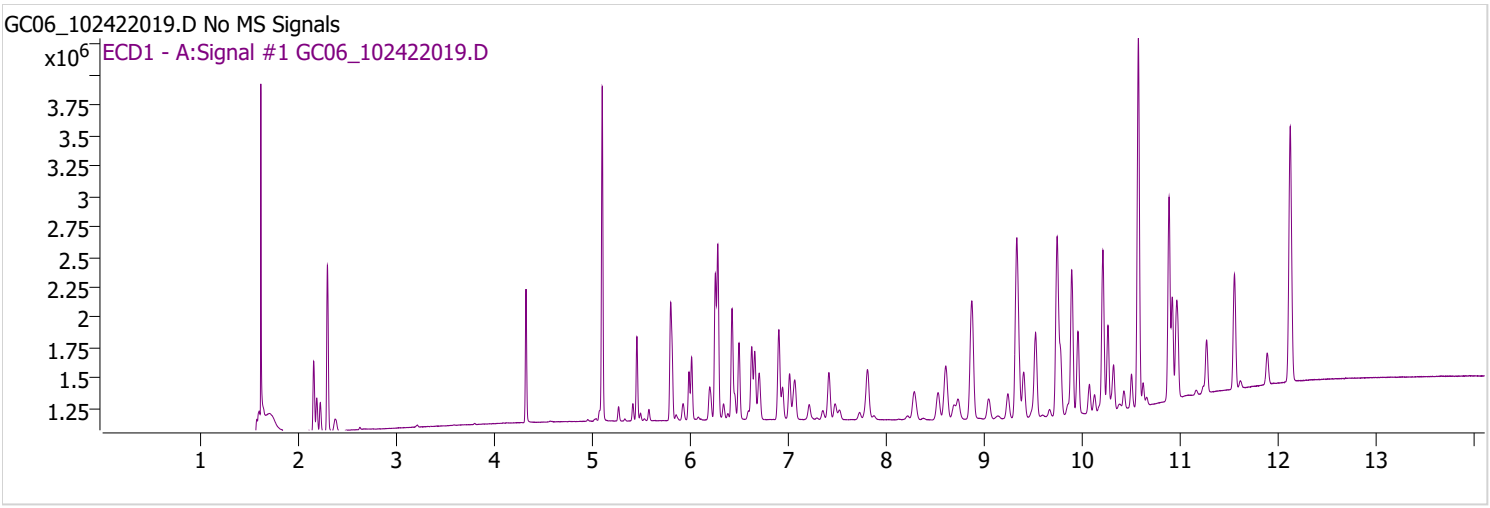


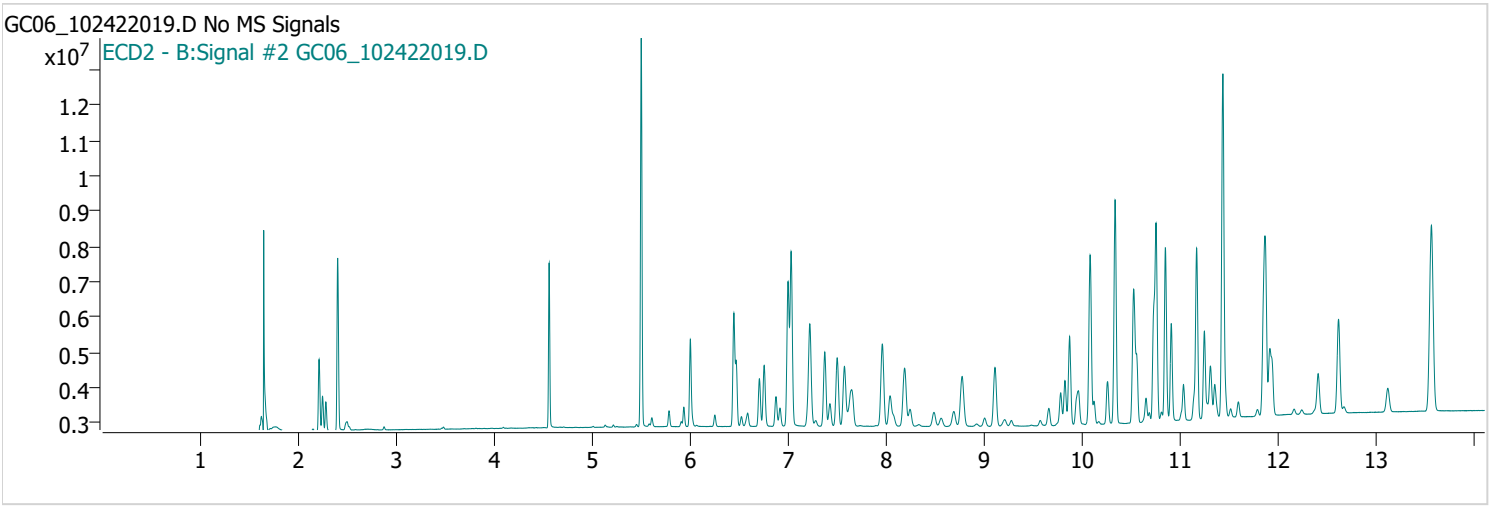
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	39.6055	13.58	0.00	9183895				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422019.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 6:55:57 PM
Sample Name	ICAL, S17268	Instrument	SVOA-GC06
Vial	16	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



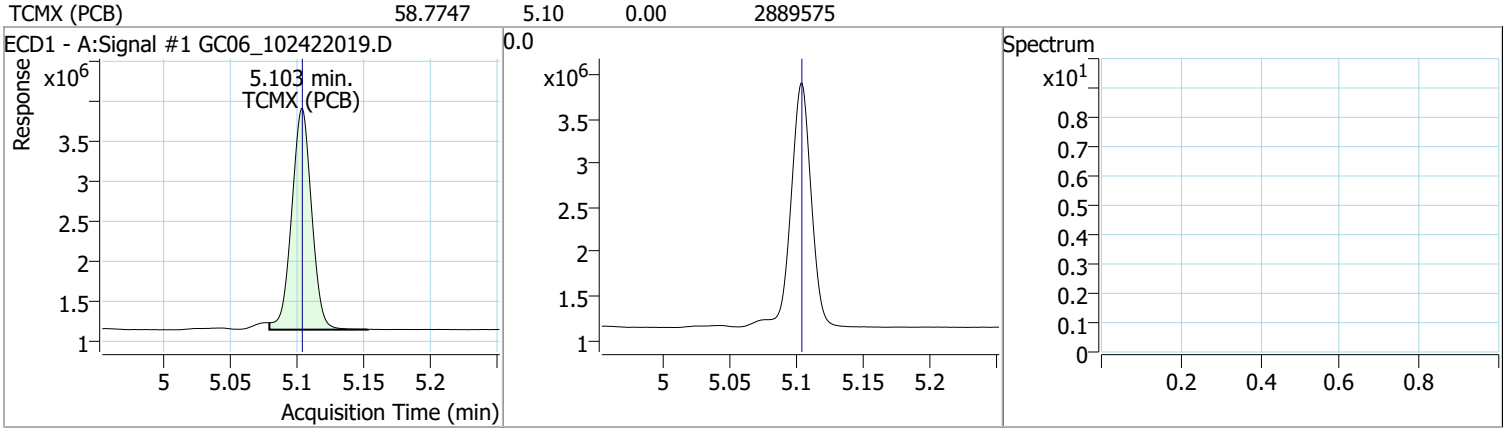


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1022576.576	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	4174033.845	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	2889575.318	58.7747	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 293.87%		*	
S TCMX (PCB) #2	5.502	0.0	12018447.242	59.9555	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 299.78%		*	
S Decachlorobiphenyl (PCB)	12.131	0.0	4087132.062	61.6234	ng/ml	m	-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 308.12%		*	
S Decachlorobiphenyl (PCB) #2	13.573	0.0	13554343.443	61.7298	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 308.65%		*	
Target Compounds							QValue

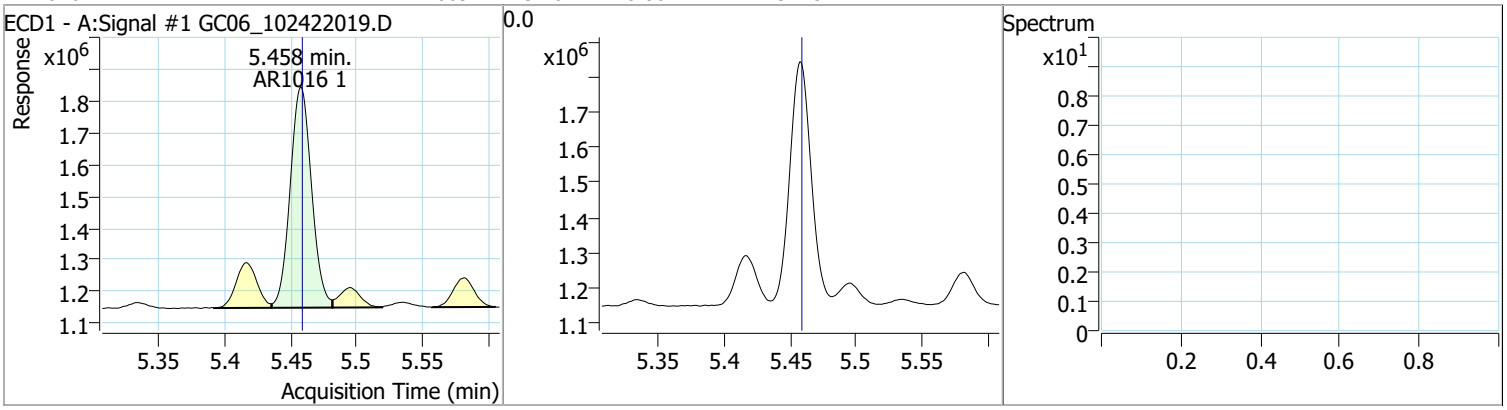
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.458	0.0	779425.049	727.0091	ng/ml		100
T AR1016 2	5.803	0.0	1697508.479	780.9261	ng/ml		100
T AR1016 1 #2	6.003	0.0	3250519.385	749.2846	ng/ml		100
T AR1016 3	6.284	0.0	1999248.159	735.5035	ng/ml		100
T AR1016 4	6.430	0.0	1529918.274	740.0346	ng/ml		100
T AR1016 2 #2	6.448	0.0	4584883.612	732.1361	ng/ml	m	100
T AR1016 5	6.908	0.0	1230110.661	738.7304	ng/ml		100
T AR1016 3 #2	7.033	0.0	8226702.311	722.9904	ng/ml		100
T AR1016 4 #2	7.223	0.0	5998163.664	738.3839	ng/ml		100
T AR1016 5 #2	7.964	0.0	4908449.359	743.3626	ng/ml		100
T AR1260 1	8.878	0.0	2377973.108	687.8018	ng/ml	m	100
T AR1260 2	9.338	0.0	3608366.991	684.7493	ng/ml		100
T AR1260 3	9.750	0.0	3823910.537	694.2591	ng/ml		100
T AR1260 1 #2	10.087	0.0	8619738.178	693.9161	ng/ml		100
T AR1260 4	10.218	0.0	2291687.481	772.3166	ng/ml		100
T AR1260 2 #2	10.342	0.0	10189046.973	682.6759	ng/ml		100
T AR1260 5	10.579	0.0	4841911.227	771.5470	ng/ml		100
T AR1260 3 #2	10.760	0.0	12934062.436	684.6327	ng/ml		100
T AR1260 4 #2	11.174	0.0	8435663.631	789.9076	ng/ml		100
T AR1260 5 #2	11.873	0.0	12366844.232	769.0388	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

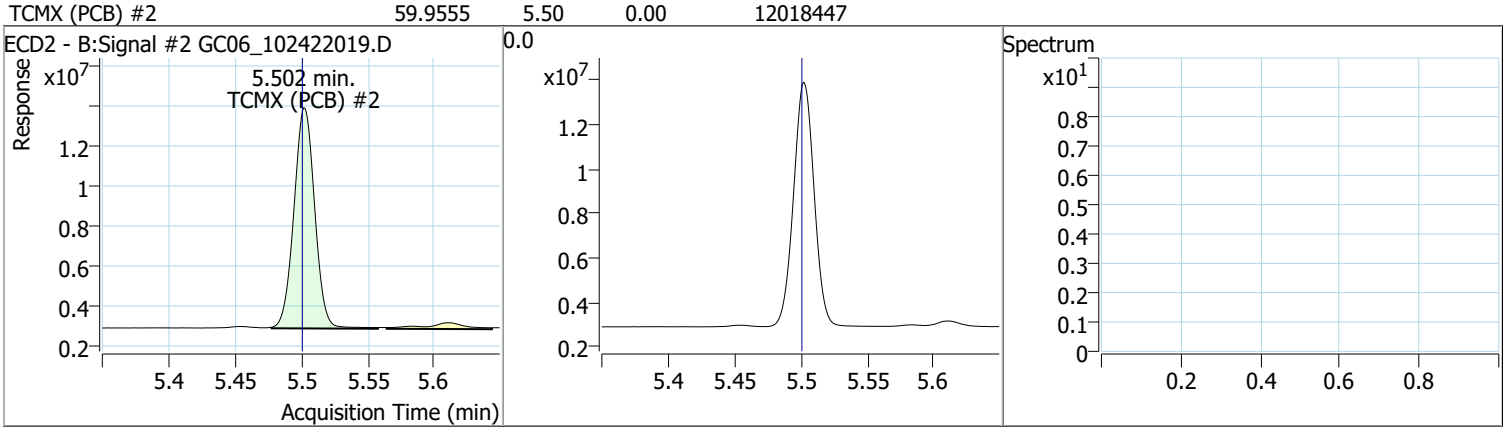
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	58.7747	5.10	0.00	2889575				



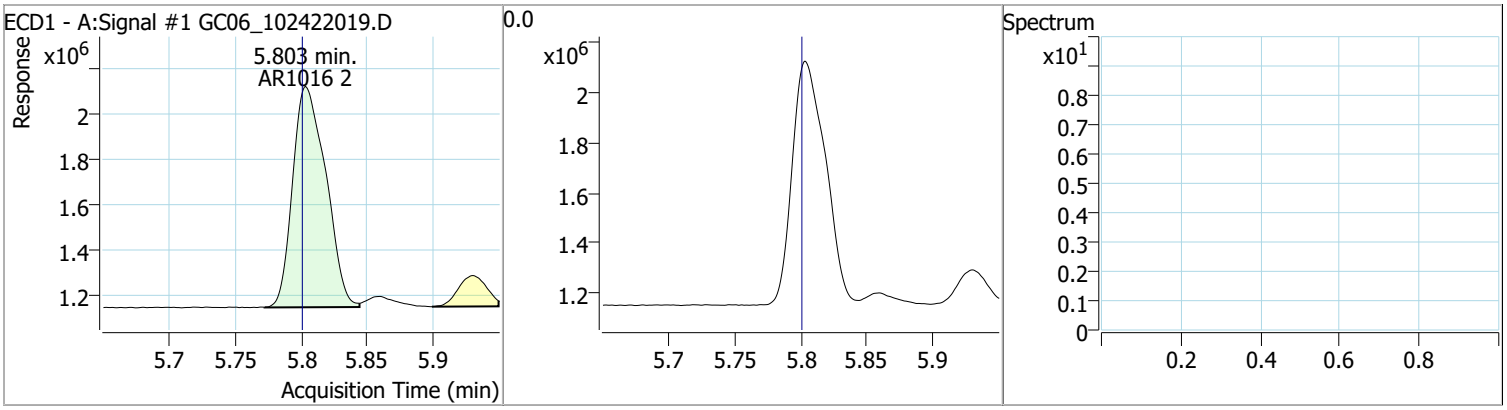
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	727.0091	5.46	0.00	779425				



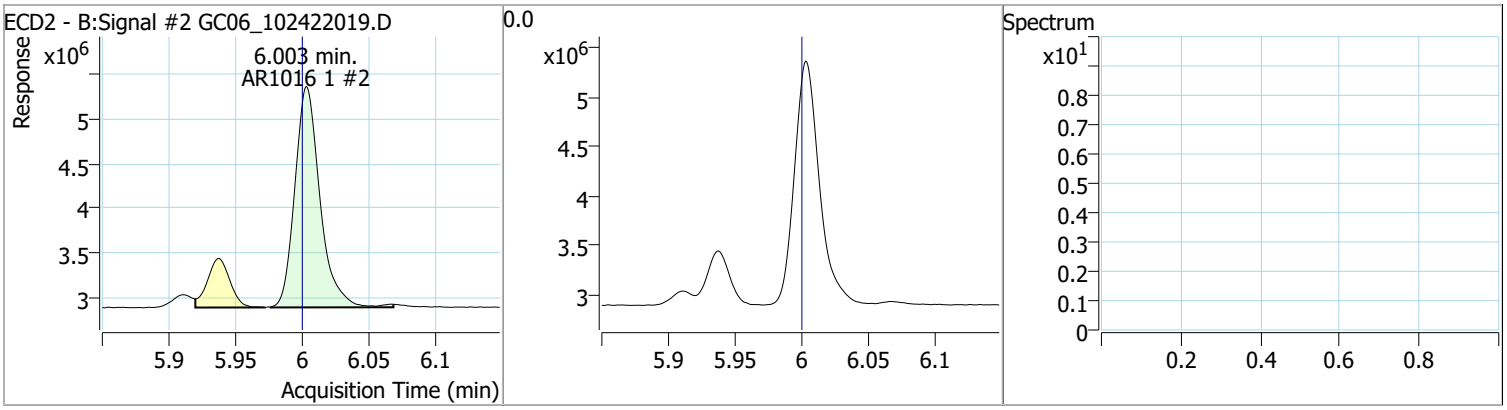
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	59.9555	5.50	0.00	12018447				



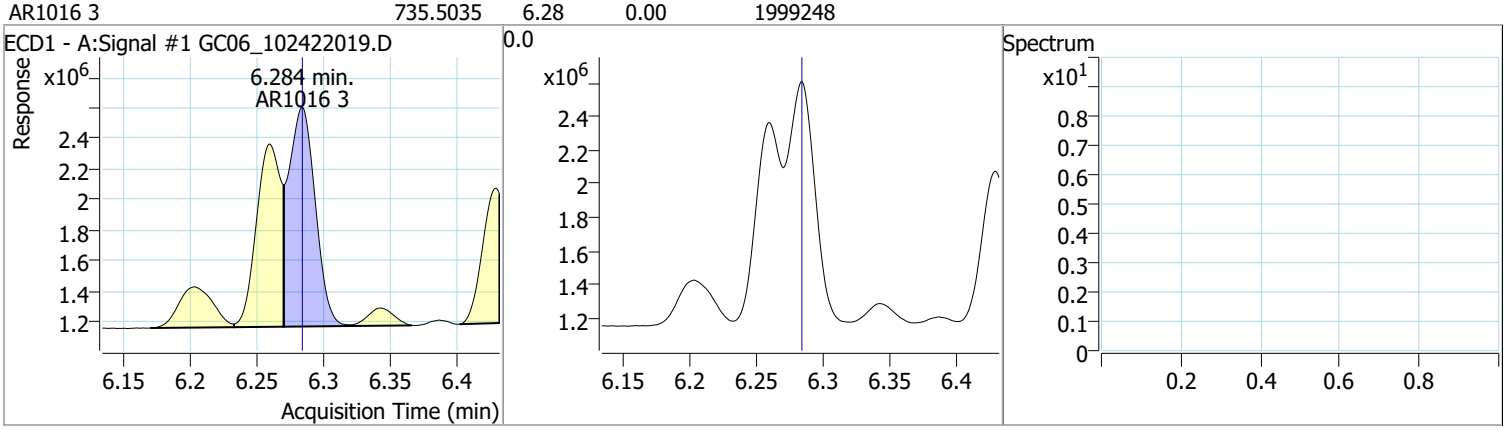
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	780.9261	5.80	0.00	1697508				



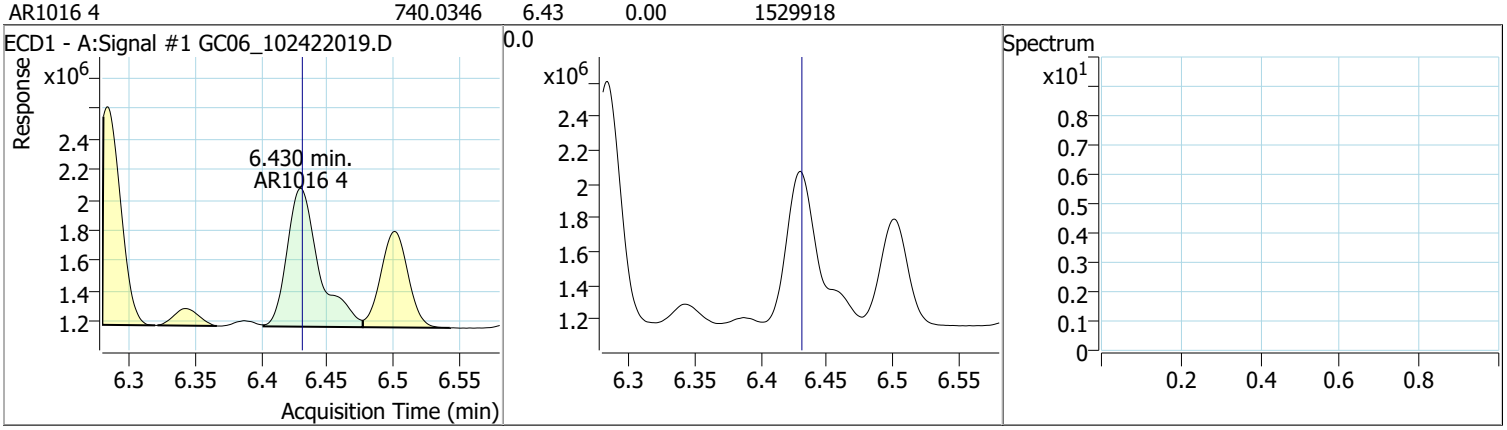
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	749.2846	6.00	0.00	3250519				



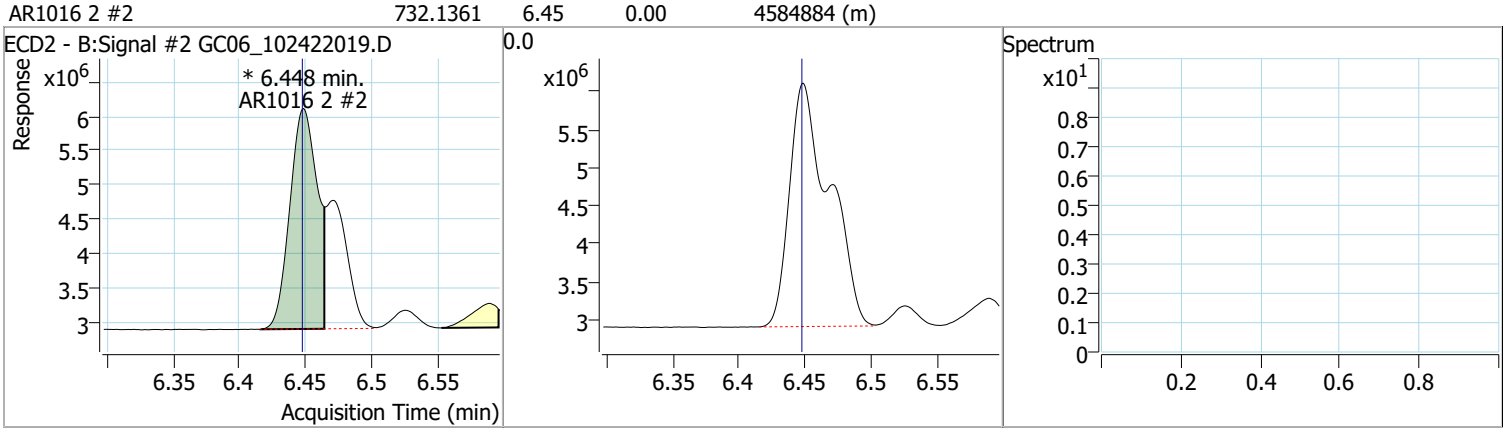
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	735.5035	6.28	0.00	1999248				



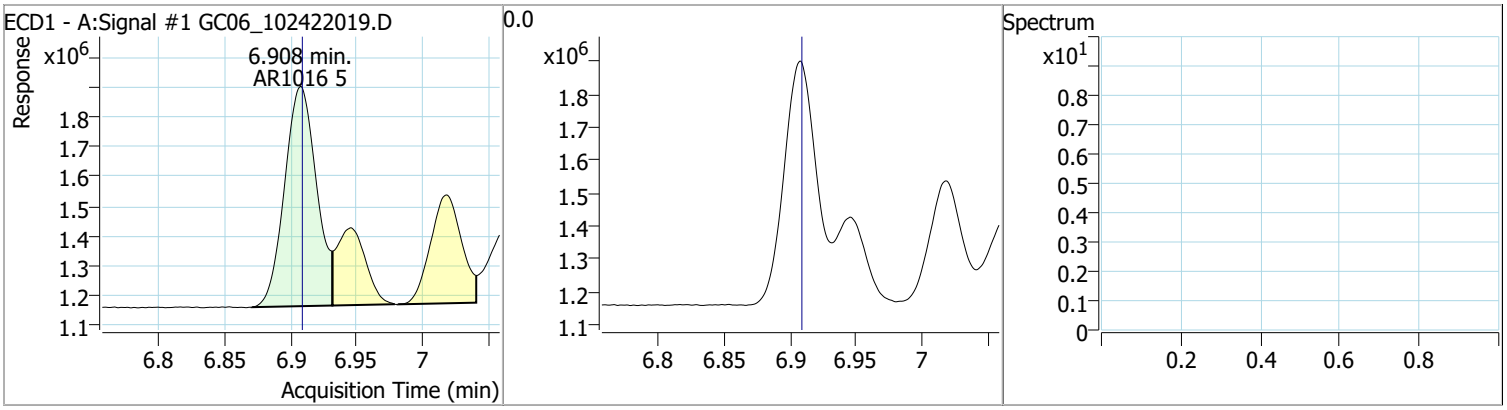
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	740.0346	6.43	0.00	1529918				



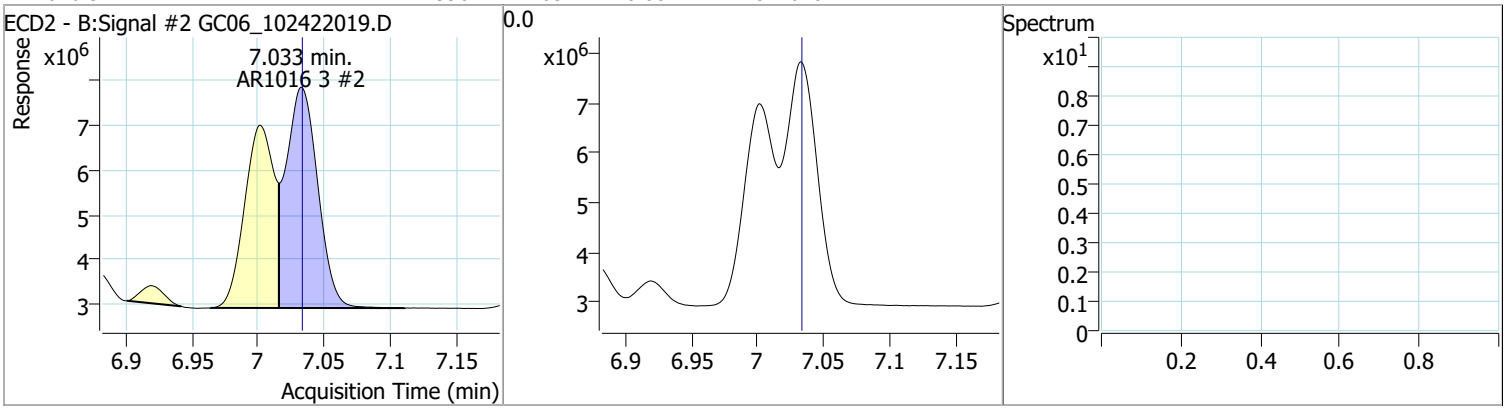
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	732.1361	6.45	0.00	4584884 (m)				



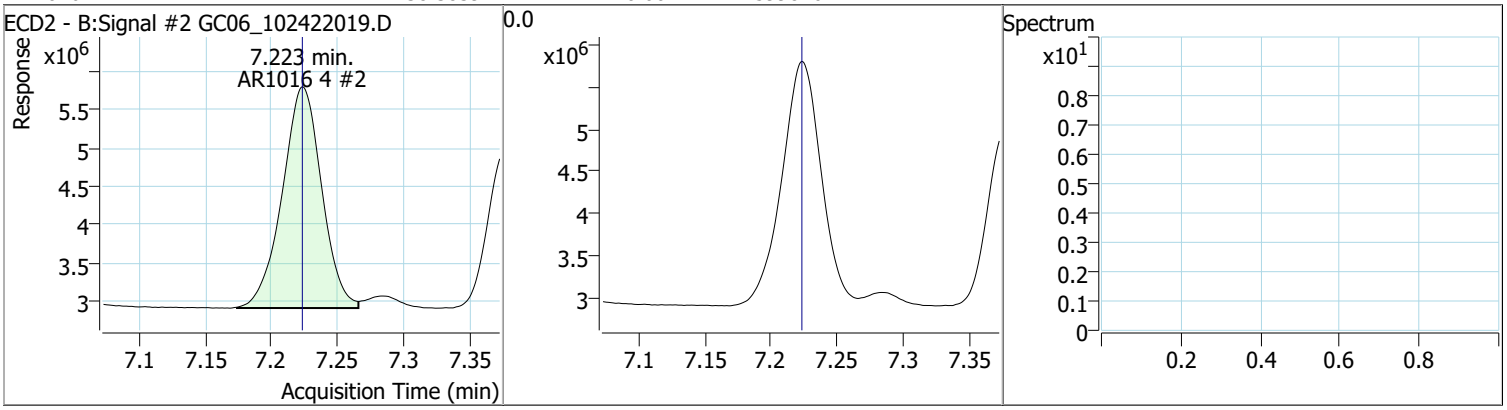
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	738.7304	6.91	0.00	1230111				



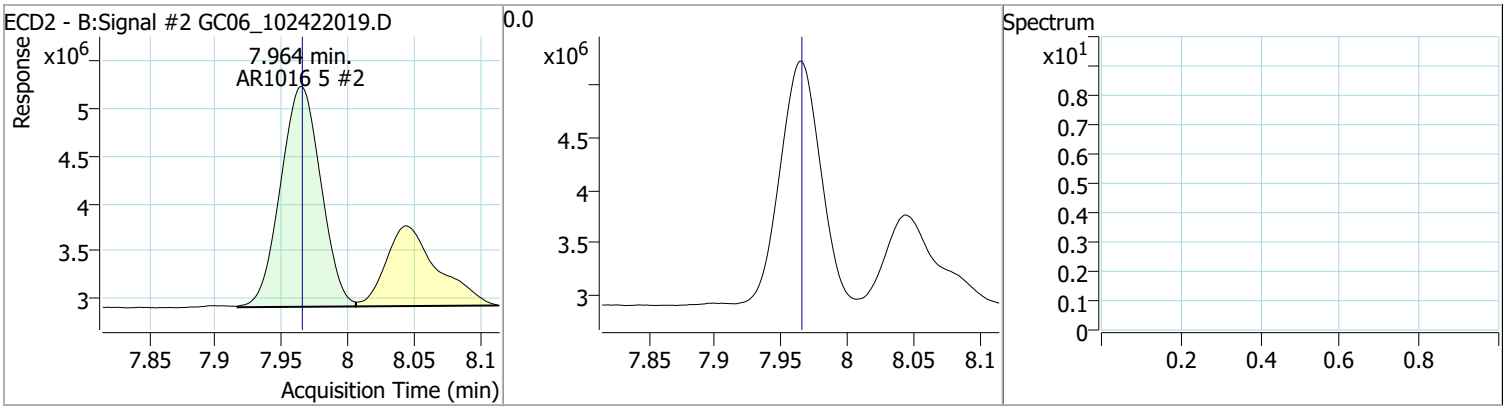
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	722.9904	7.03	0.00	8226702				



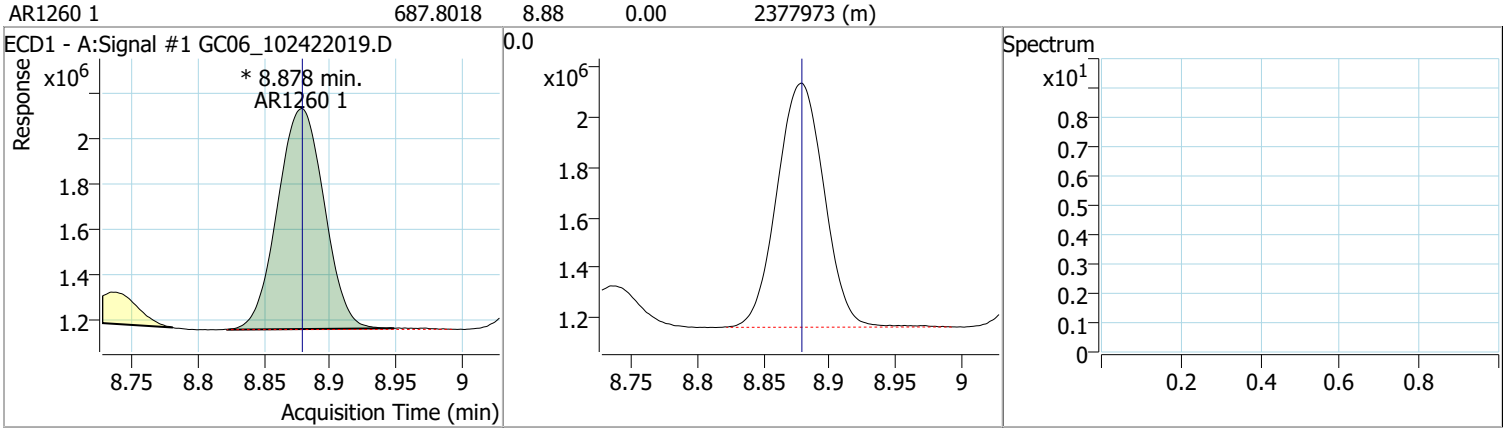
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	738.3839	7.22	0.00	5998164				



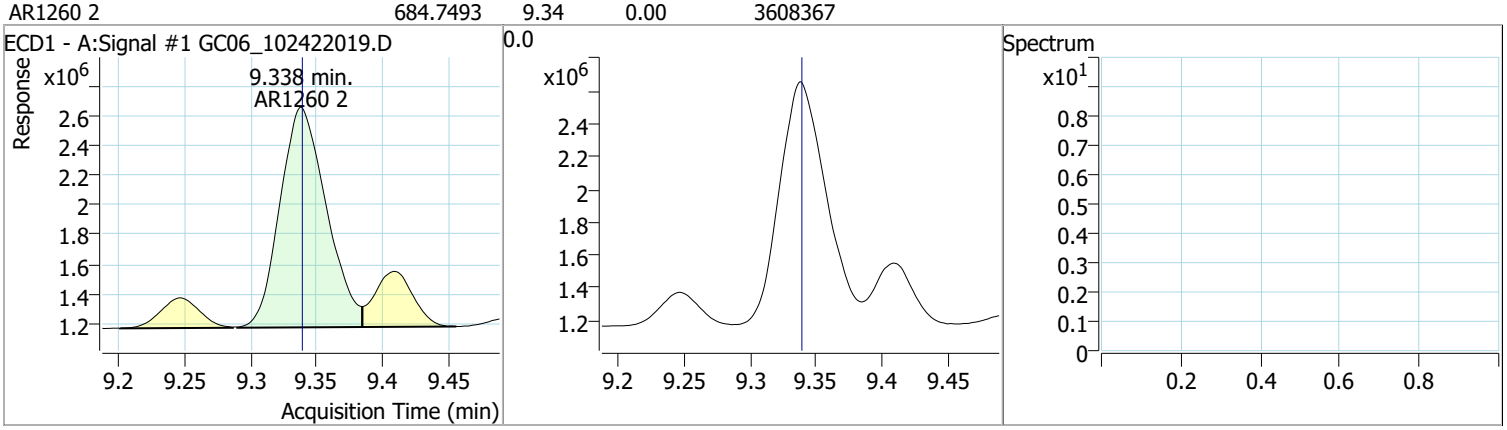
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	743.3626	7.96	0.00	4908449				



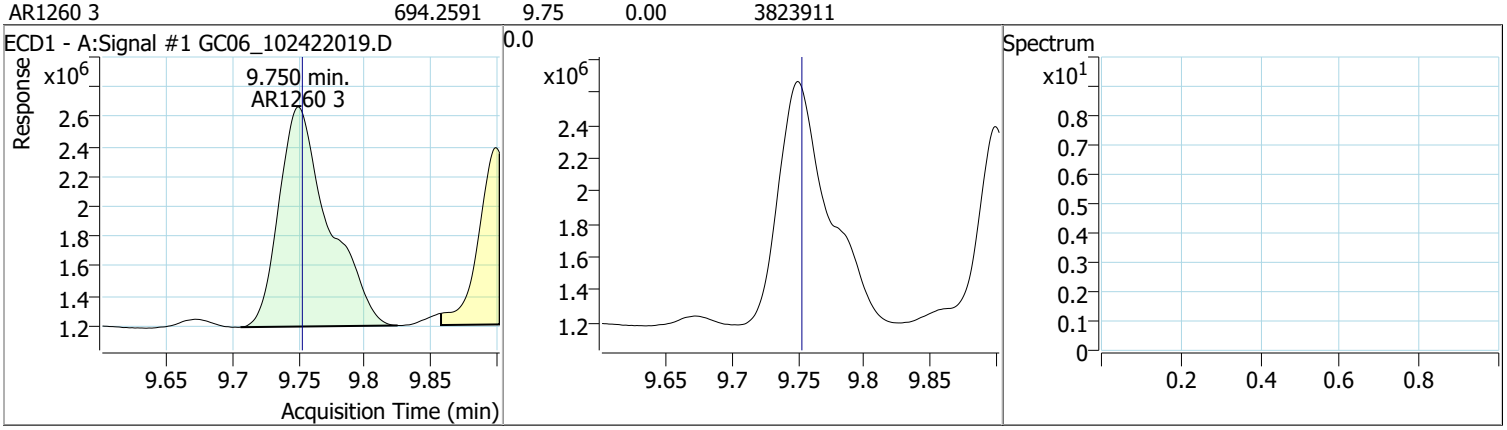
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	687.8018	8.88	0.00	2377973 (m)				



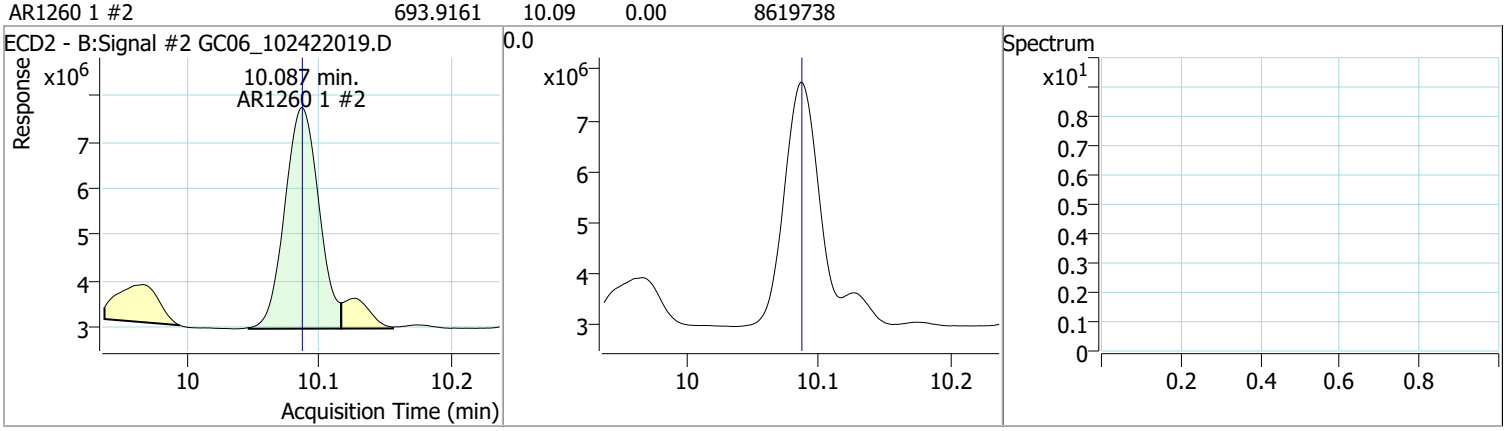
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	684.7493	9.34	0.00	3608367				



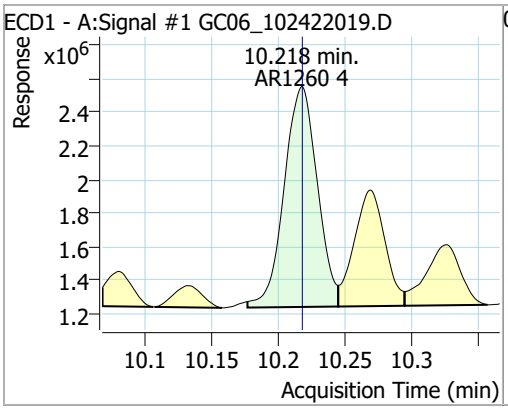
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	694.2591	9.75	0.00	3823911				

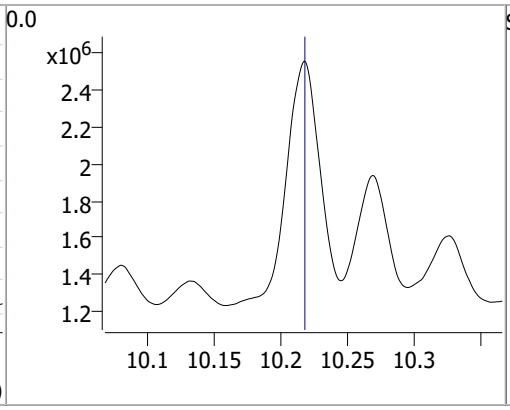


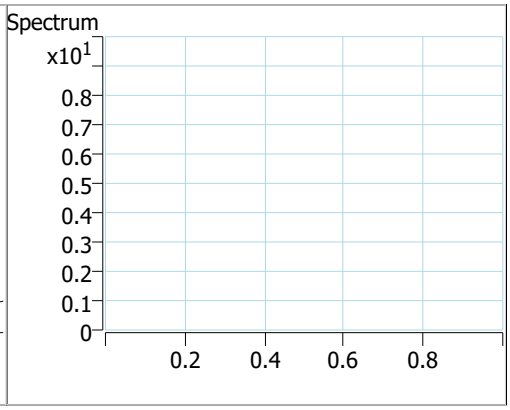
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	693.9161	10.09	0.00	8619738				



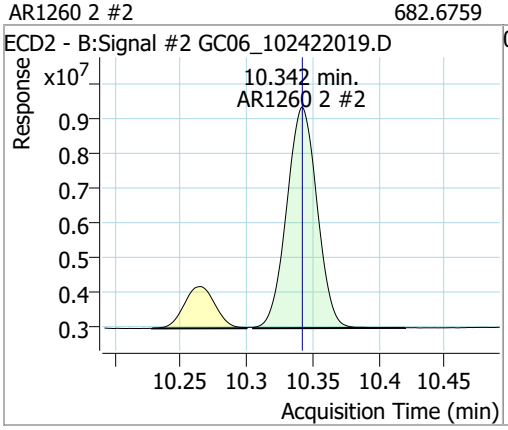
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	772.3166	10.22	0.00	2291687				

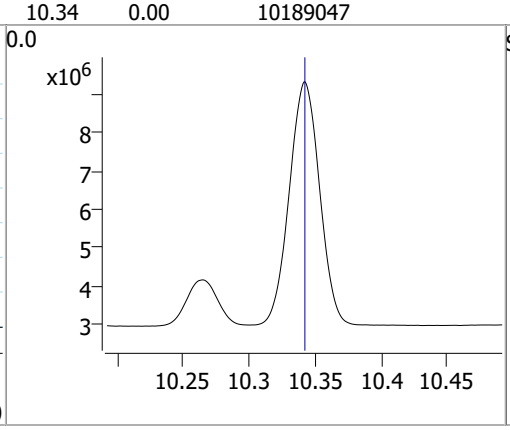


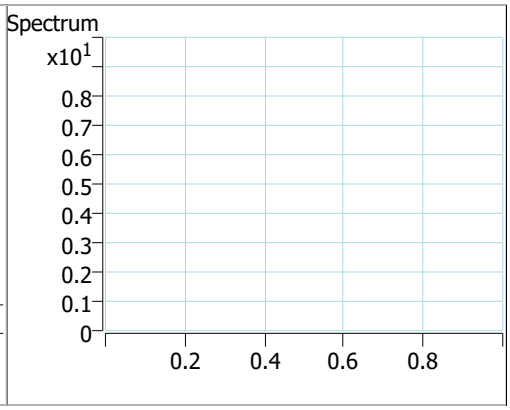




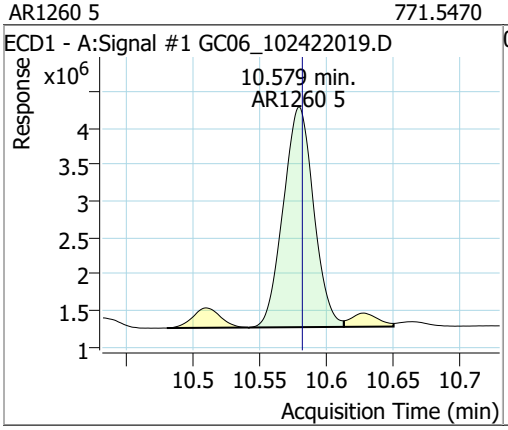
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	682.6759	10.34	0.00	10189047				

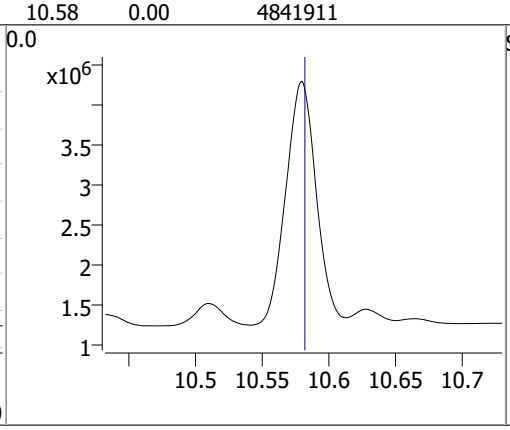


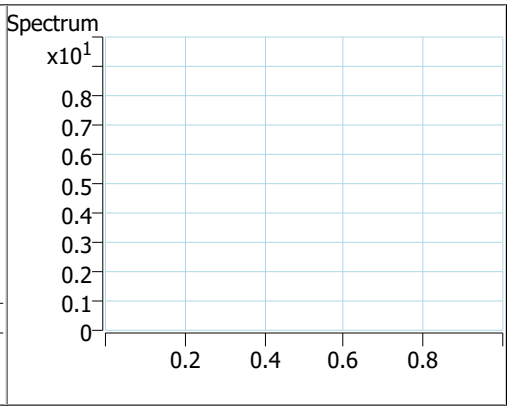




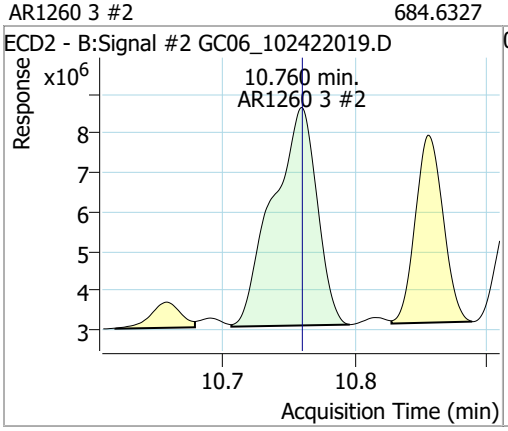
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	771.5470	10.58	0.00	4841911				

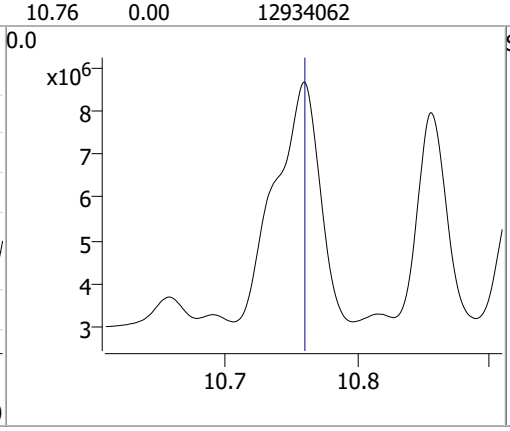


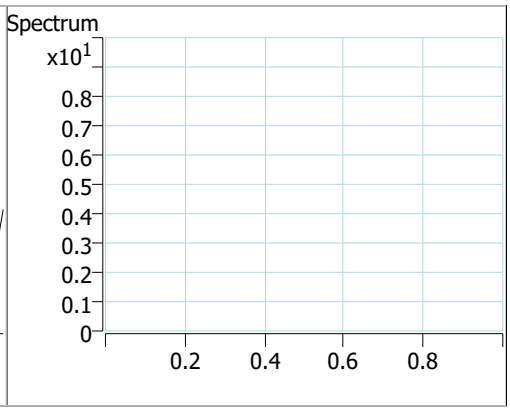




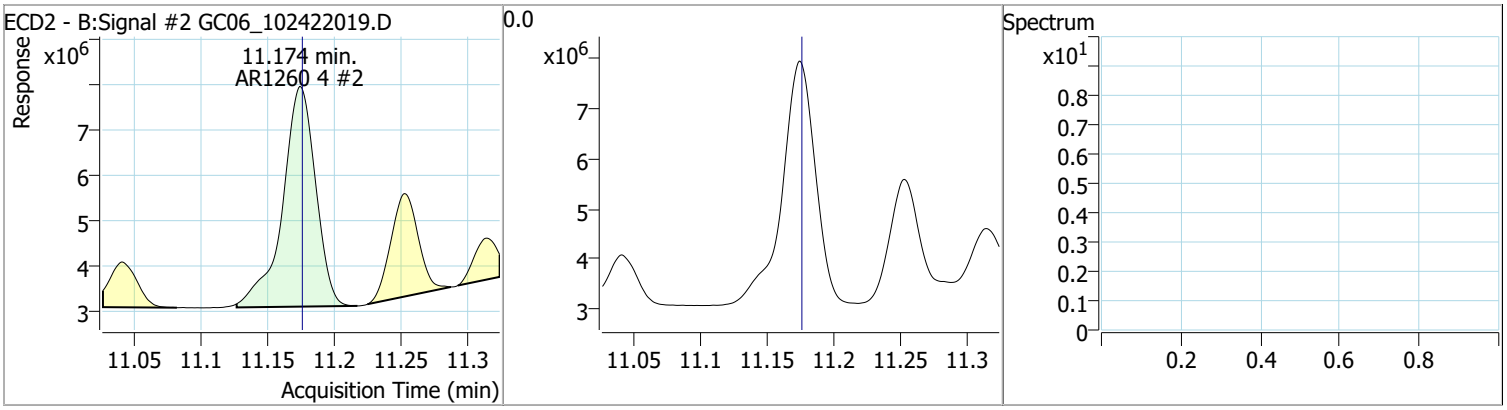
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	684.6327	10.76	0.00	12934062				



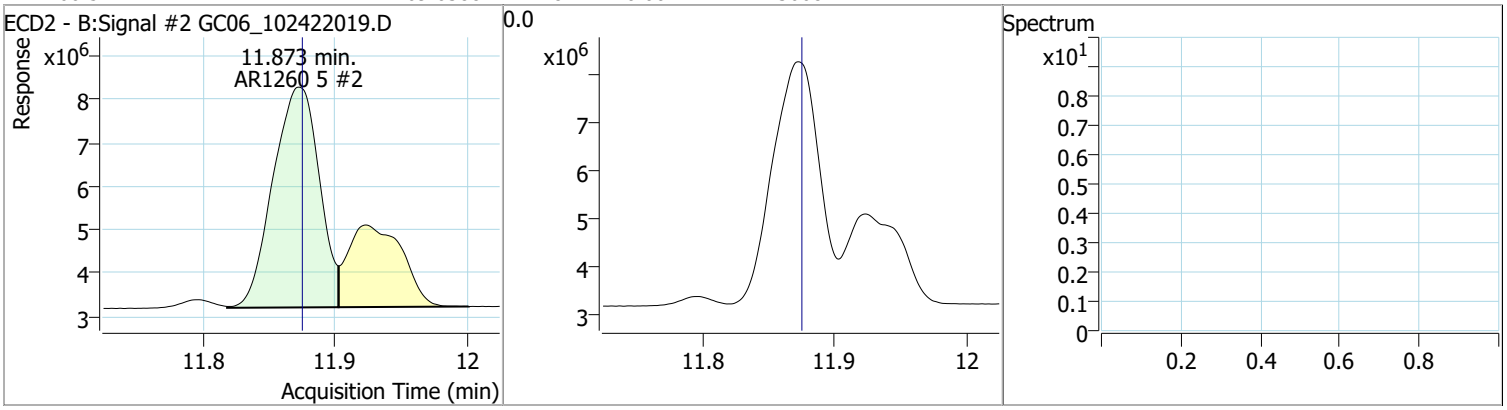




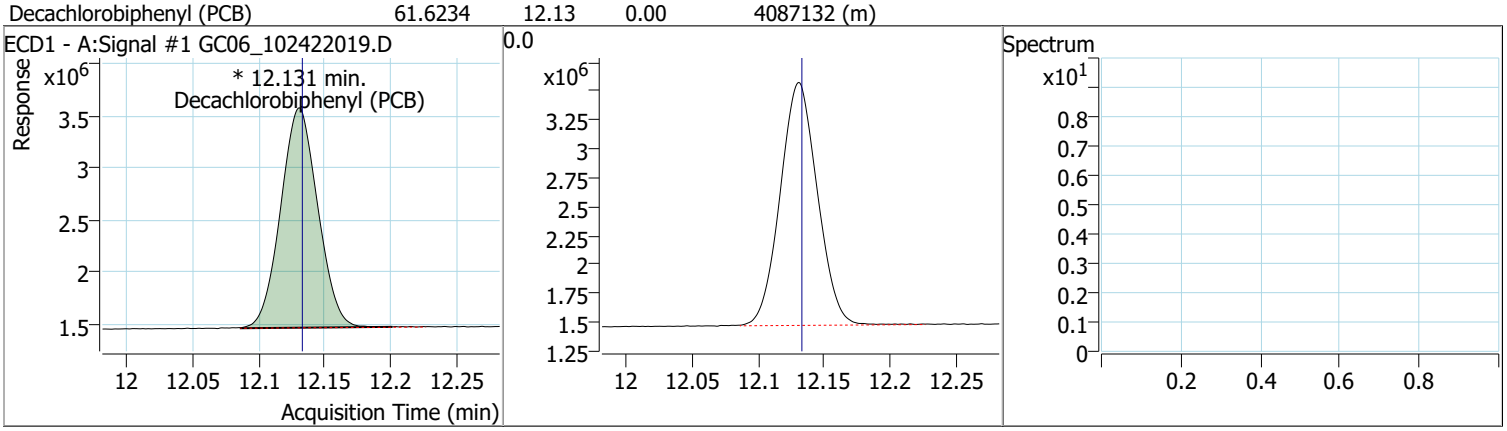
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	789.9076	11.17	0.00	8435664				



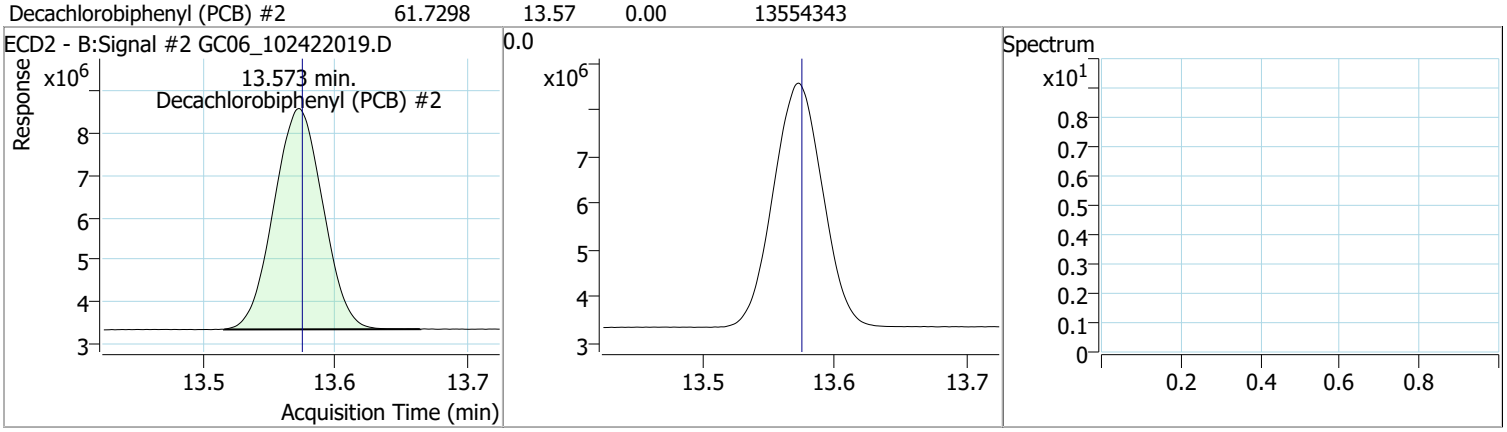
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	769.0388	11.87	0.00	12366844				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	61.6234	12.13	0.00	4087132 (m)				

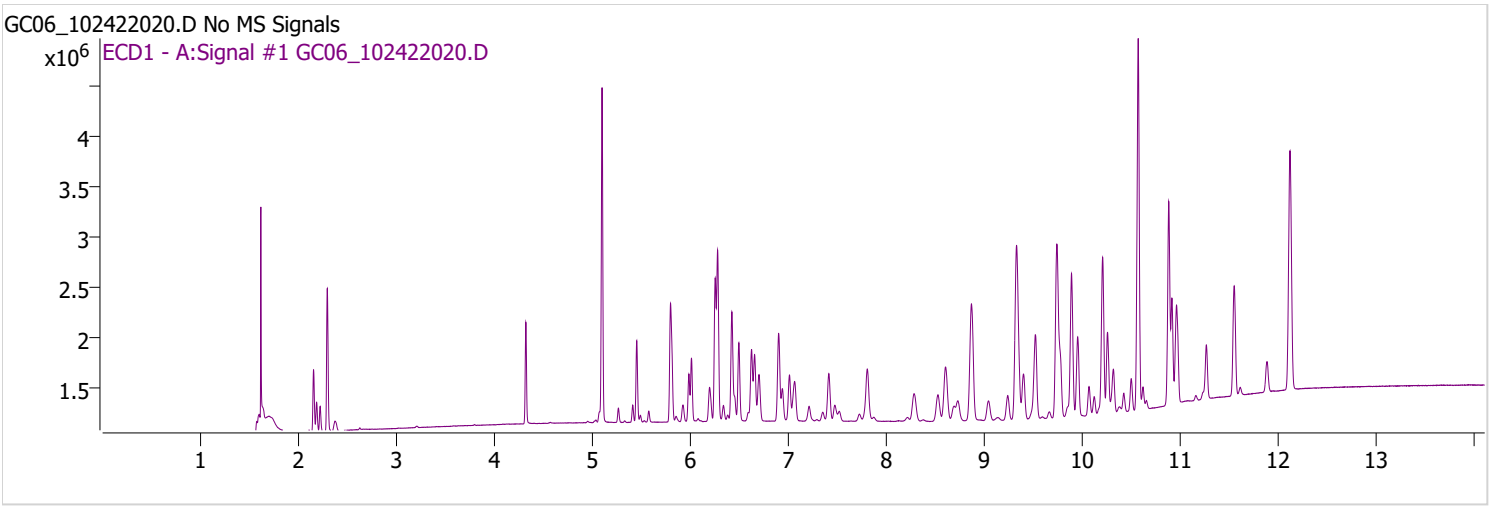


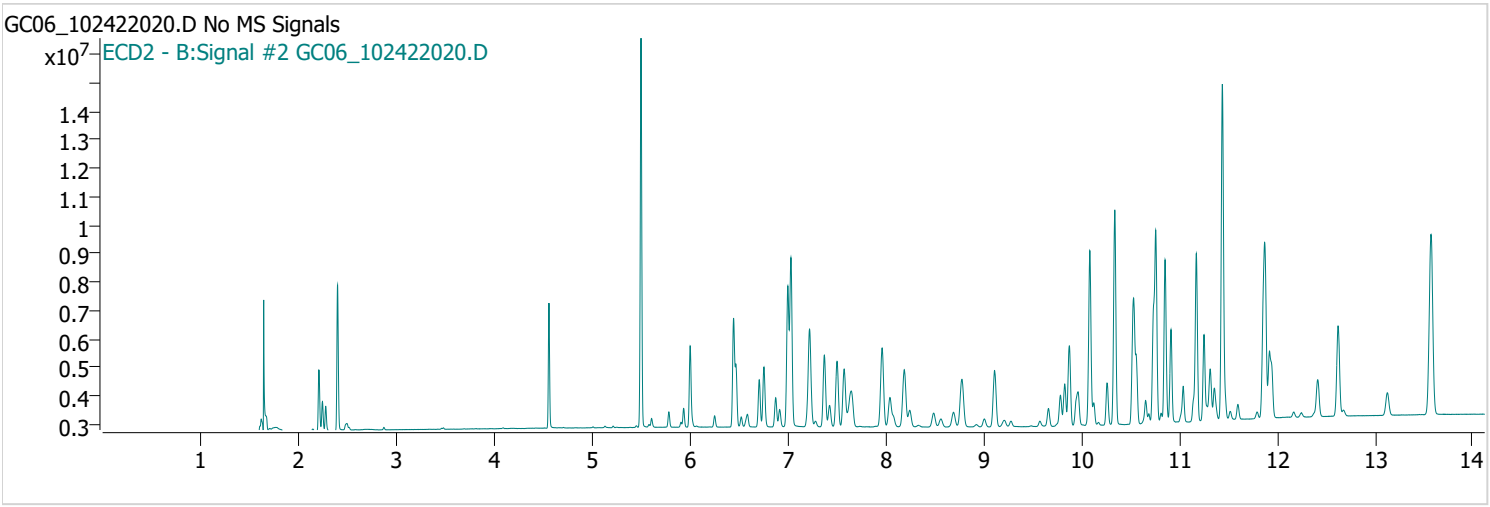
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	61.7298	13.57	0.00	13554343				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422020.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 7:13:45 PM
Sample Name	ICAL, S17269	Instrument	SVOA-GC06
Vial	17	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



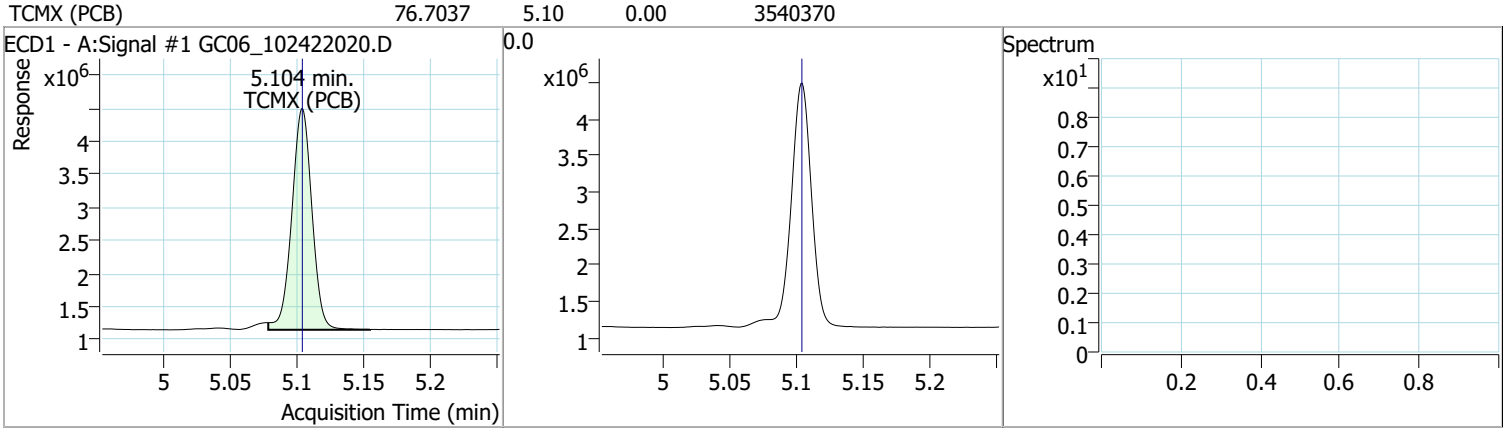


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	960028.285	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	3904924.024	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.104	0.0	3540369.739	76.7037	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 383.52%		*	
S TCMX (PCB) #2	5.502	0.0	14570076.912	77.6938	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 388.47%		*	
S Decachlorobiphenyl (PCB)	12.133	0.0	4873910.282	79.4415	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 397.21%		*	
S Decachlorobiphenyl (PCB) #2	13.574	0.0	16104085.280	78.9669	ng/ml		-0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 394.83%		*	
Target Compounds							QValue
T AR1016 1	5.458	0.0	943433.395	937.3214	ng/ml		100

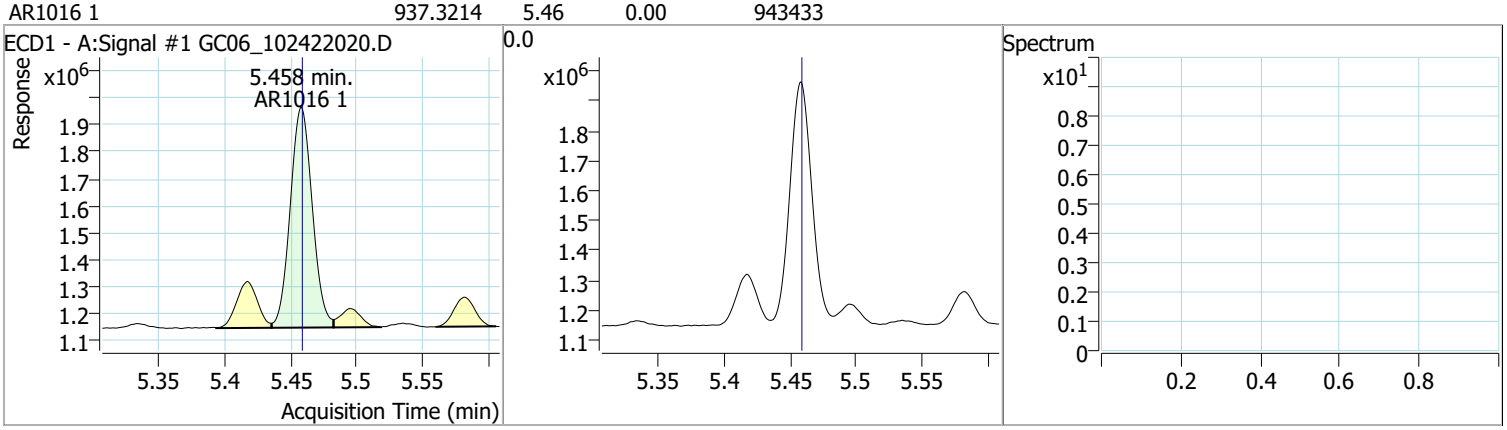
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 2	5.803	0.0	2010418.724	989.1606	ng/ml		100
T AR1016 1 #2	6.004	0.0	3878467.632	955.6472	ng/ml		100
T AR1016 3	6.284	0.0	2394397.764	938.2663	ng/ml		100
T AR1016 4	6.430	0.0	1827466.445	941.5536	ng/ml		100
T AR1016 2 #2	6.448	0.0	5500389.069	938.8589	ng/ml	m	100
T AR1016 5	6.908	0.0	1470872.987	940.8682	ng/ml		100
T AR1016 3 #2	7.034	0.0	9872562.438	927.4276	ng/ml		100
T AR1016 4 #2	7.224	0.0	7222770.660	950.4102	ng/ml		100
T AR1016 5 #2	7.966	0.0	5894671.400	954.2439	ng/ml		100
T AR1260 1	8.878	0.0	2877985.945	886.6594	ng/ml		100
T AR1260 2	9.338	0.0	4300287.117	869.2209	ng/ml		100
T AR1260 3	9.751	0.0	4585617.535	886.7956	ng/ml		100
T AR1260 1 #2	10.088	0.0	10289089.324	885.3872	ng/ml		100
T AR1260 4	10.218	0.0	2742861.102	988.8343	ng/ml		100
T AR1260 2 #2	10.343	0.0	12199337.627	873.6965	ng/ml		100
T AR1260 5	10.582	0.0	5817456.745	992.4576	ng/ml		100
T AR1260 3 #2	10.761	0.0	15563112.957	880.5672	ng/ml		100
T AR1260 4 #2	11.176	0.0	9679021.093	974.1517	ng/ml		100
T AR1260 5 #2	11.874	0.0	14837736.104	991.5511	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

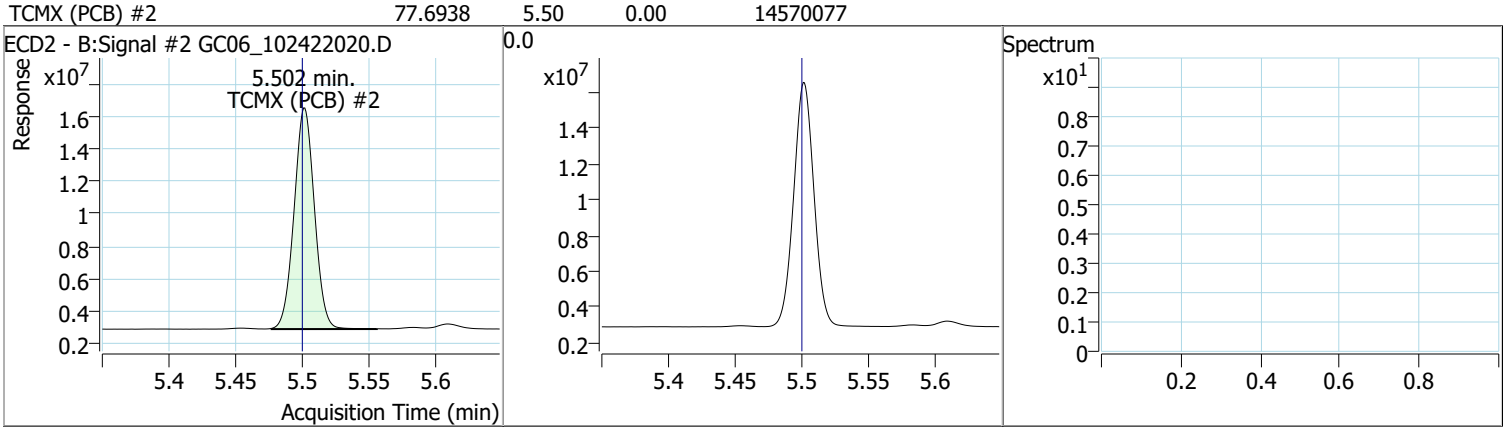
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	76.7037	5.10	0.00	3540370				



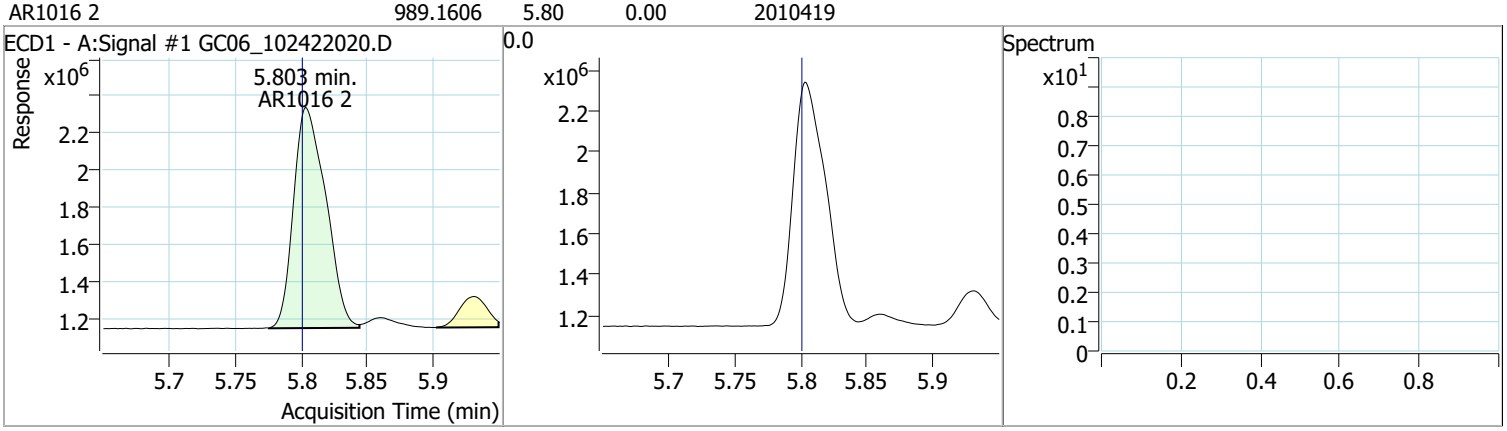
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	937.3214	5.46	0.00	943433				



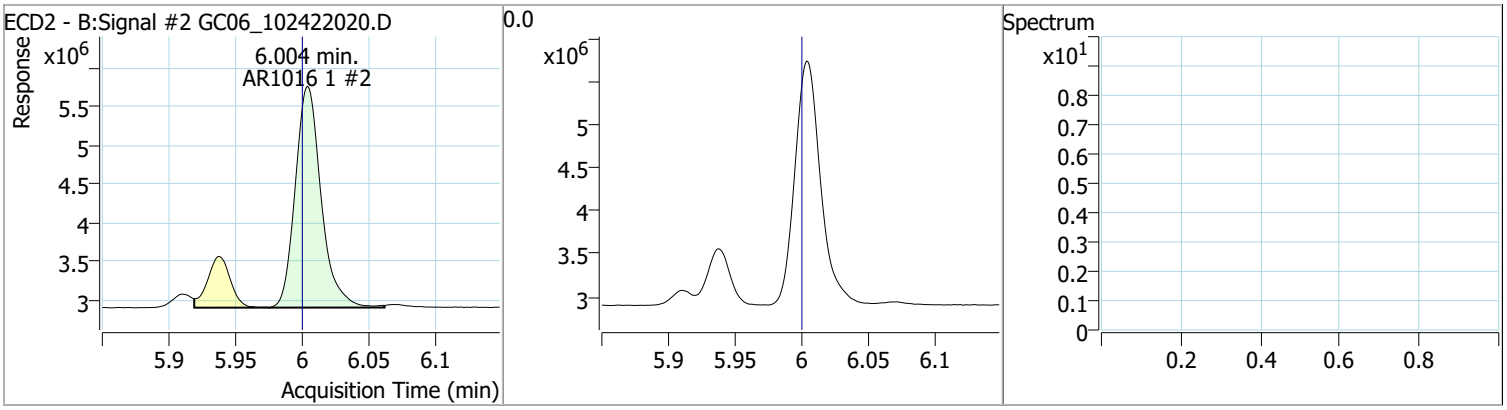
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	77.6938	5.50	0.00	14570077				



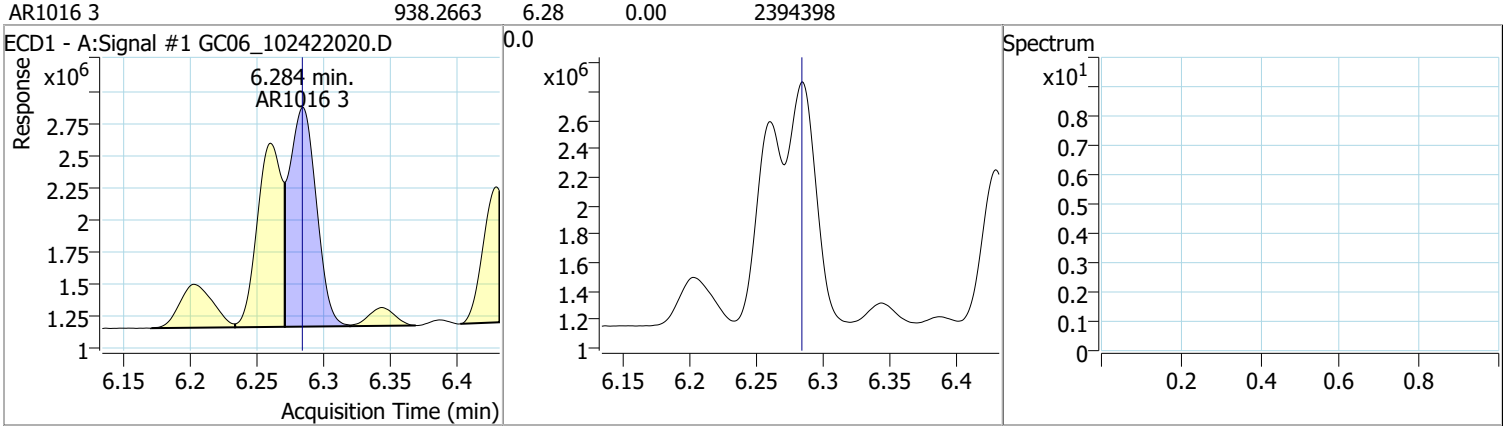
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	989.1606	5.80	0.00	2010419				



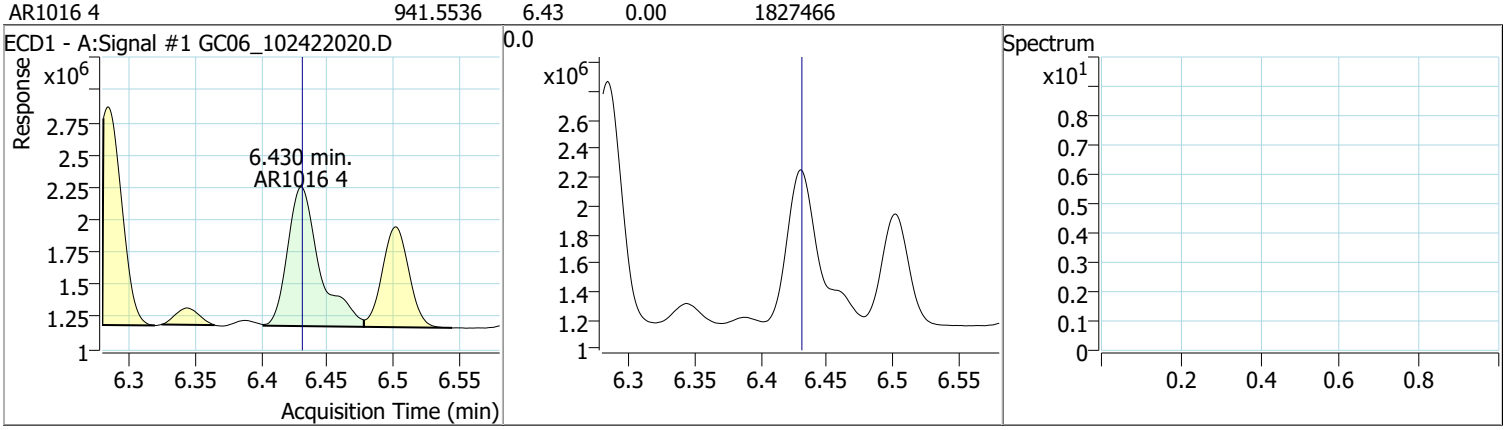
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	955.6472	6.00	0.00	3878468				



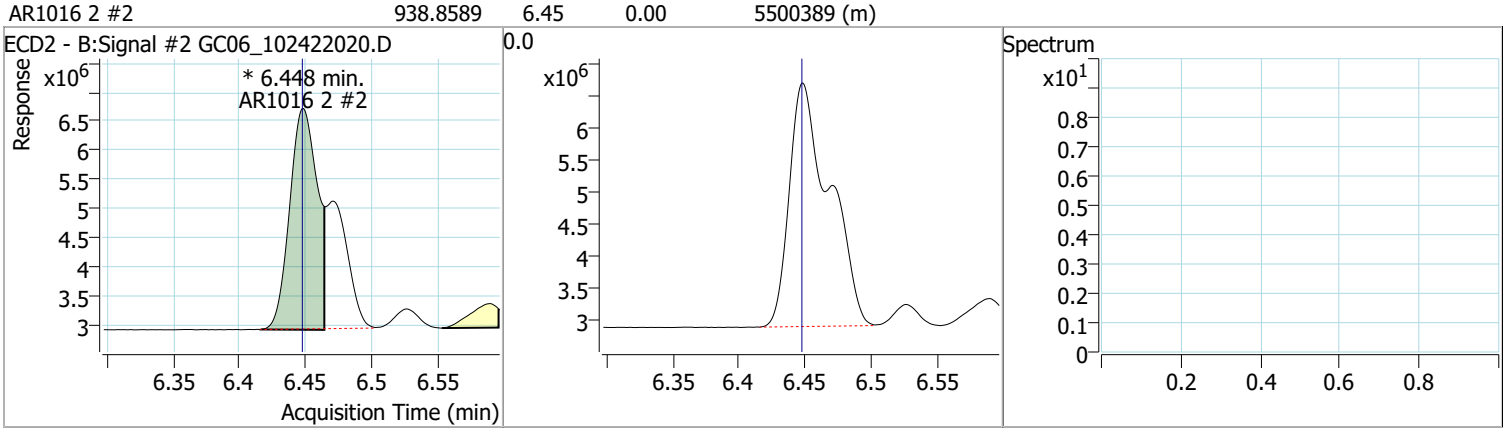
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	938.2663	6.28	0.00	2394398				



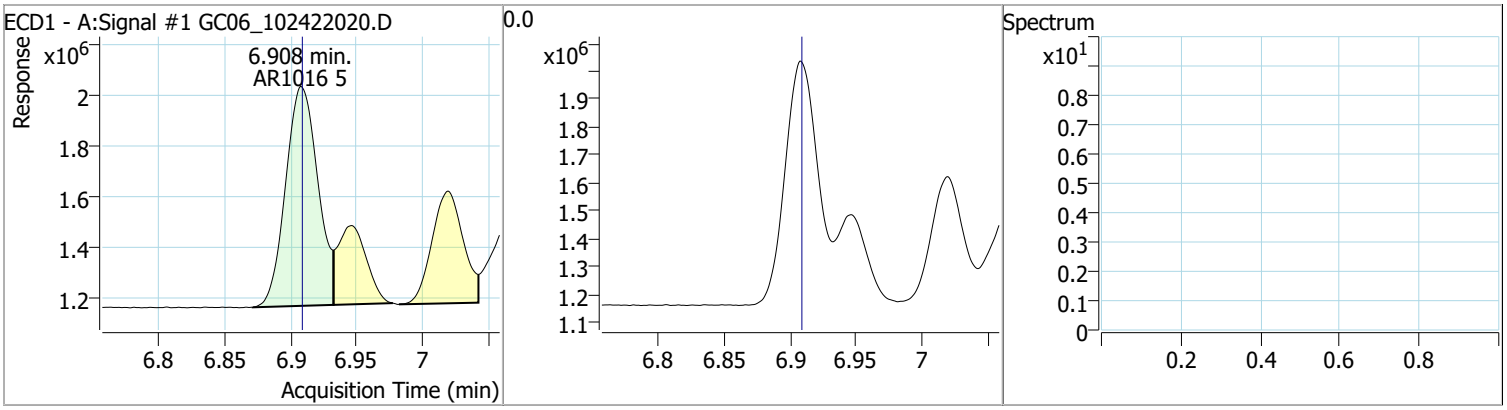
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	941.5536	6.43	0.00	1827466				



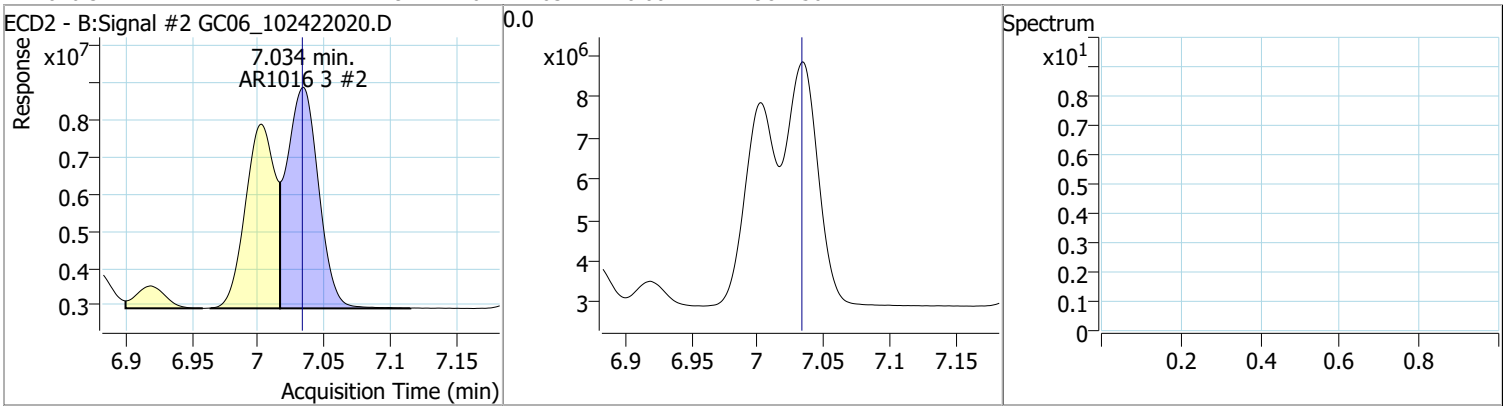
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	938.8589	6.45	0.00	5500389 (m)				



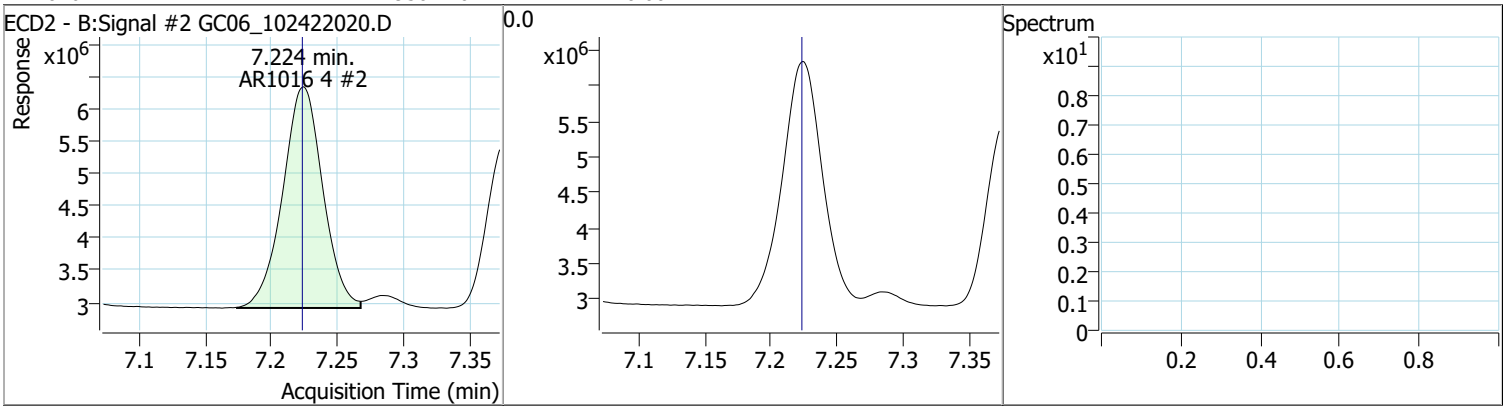
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	940.8682	6.91	0.00	1470873				



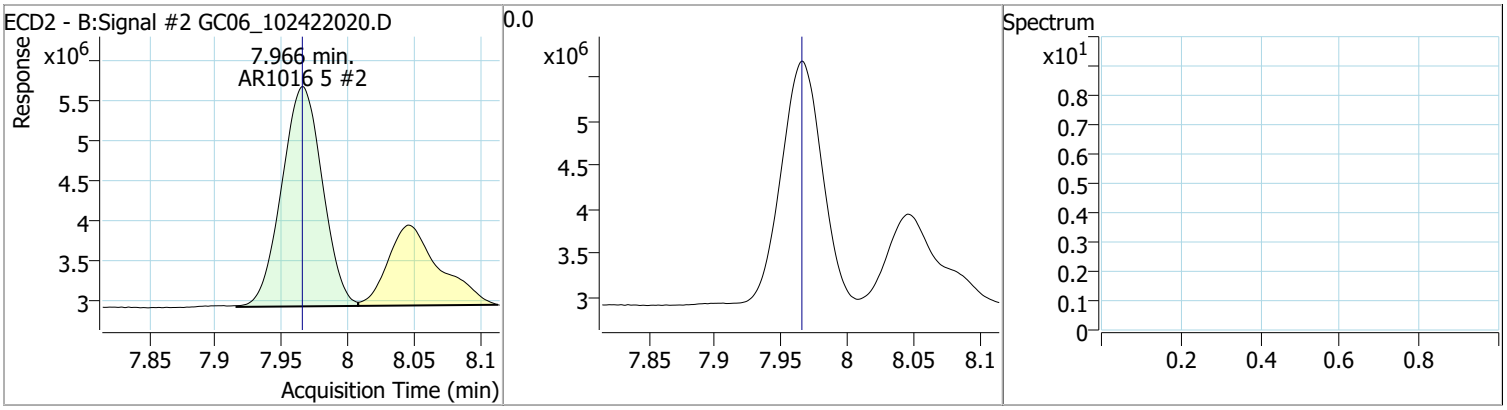
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	927.4276	7.03	0.00	9872562				



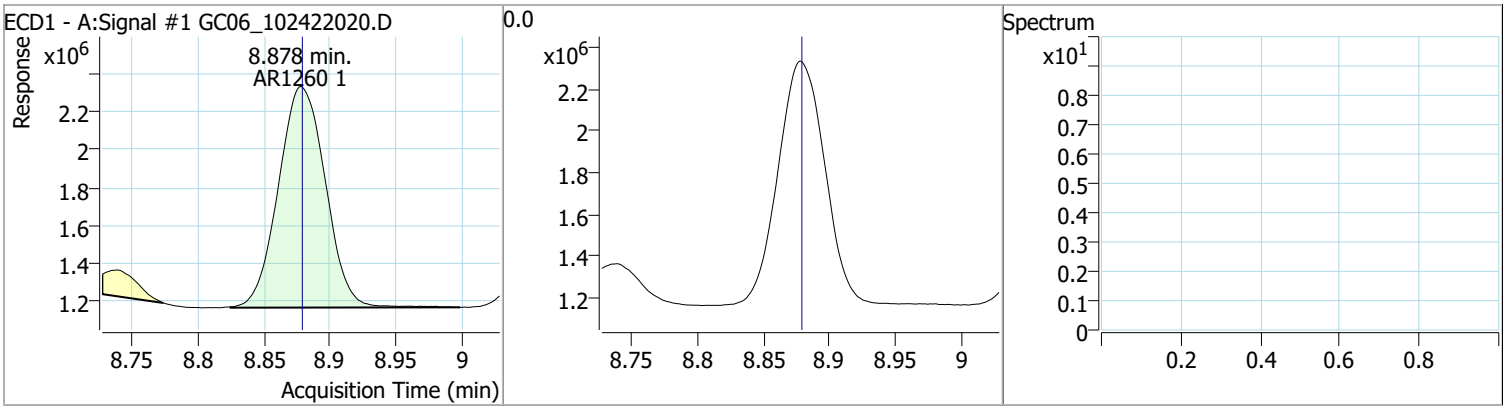
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4 #2	950.4102	7.22	0.00	7222771				



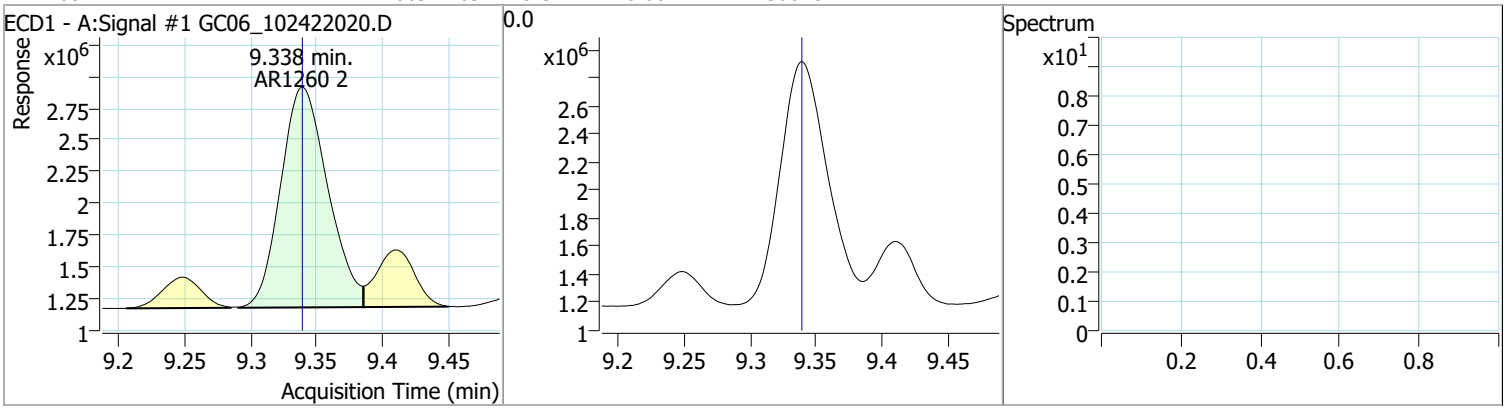
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	954.2439	7.97	0.00	5894671				



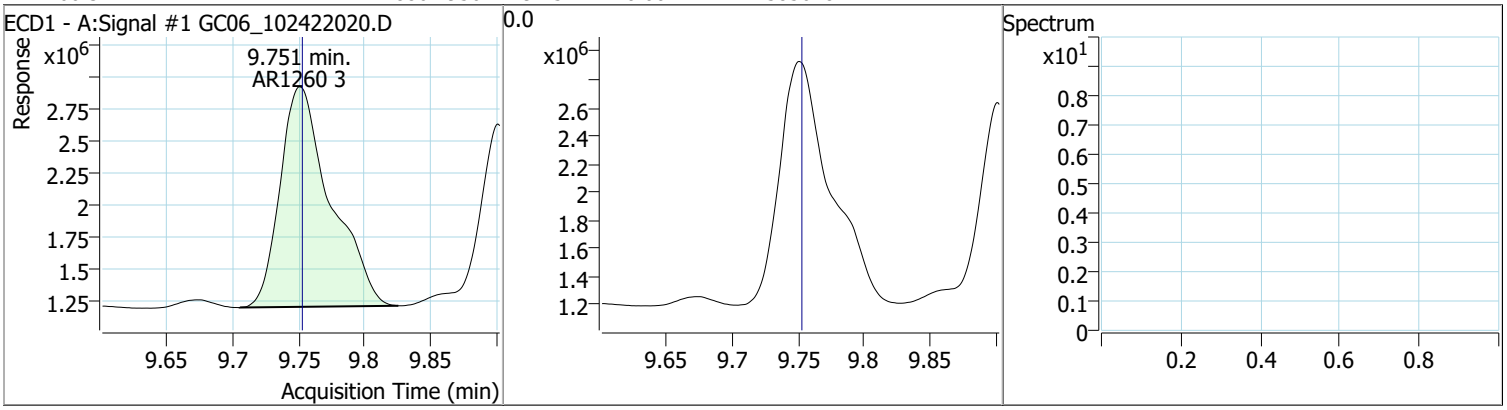
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	886.6594	8.88	0.00	2877986				



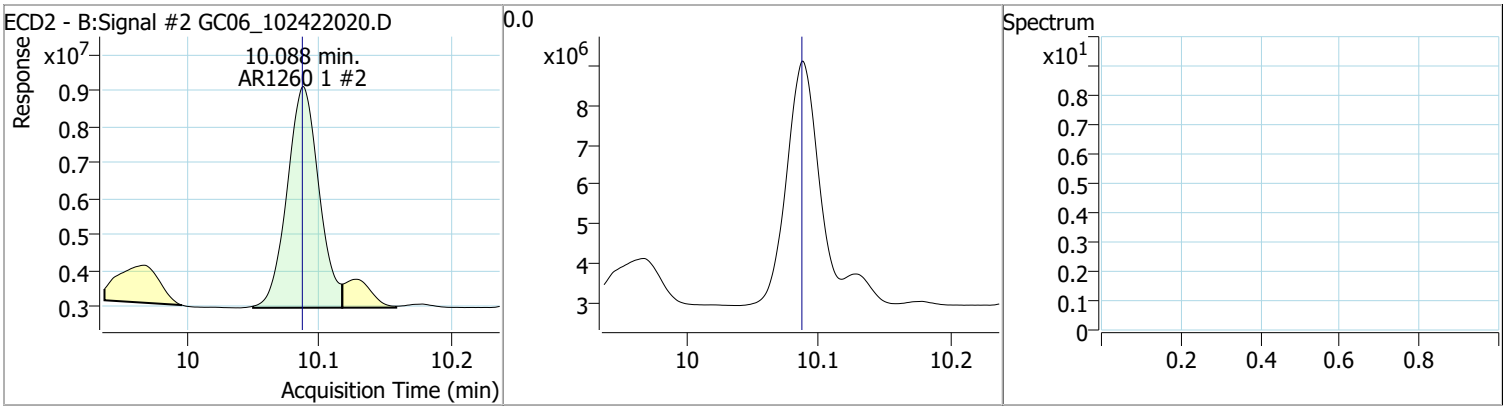
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	869.2209	9.34	0.00	4300287				



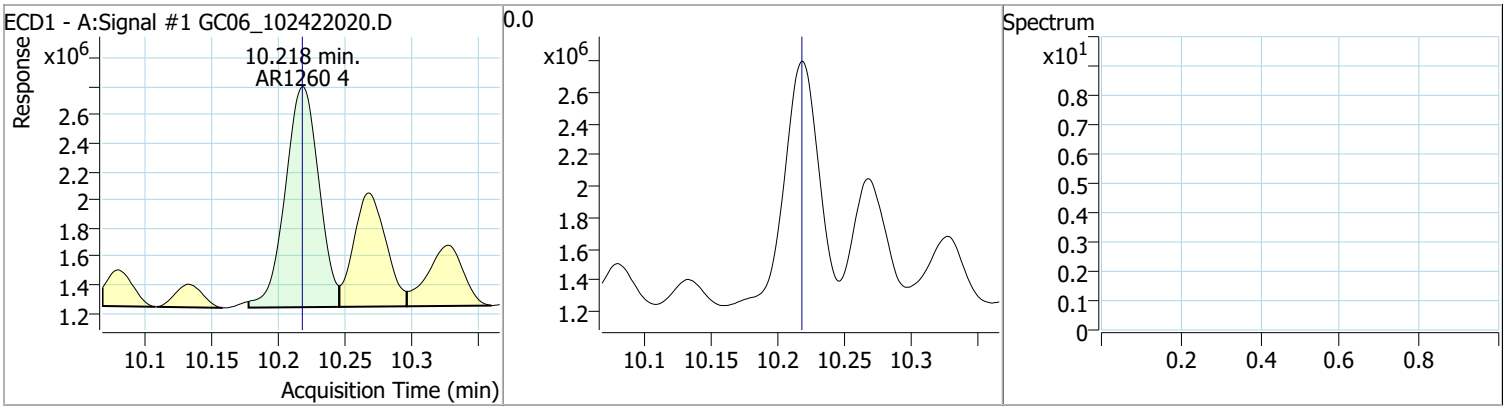
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	886.7956	9.75	0.00	4585618				



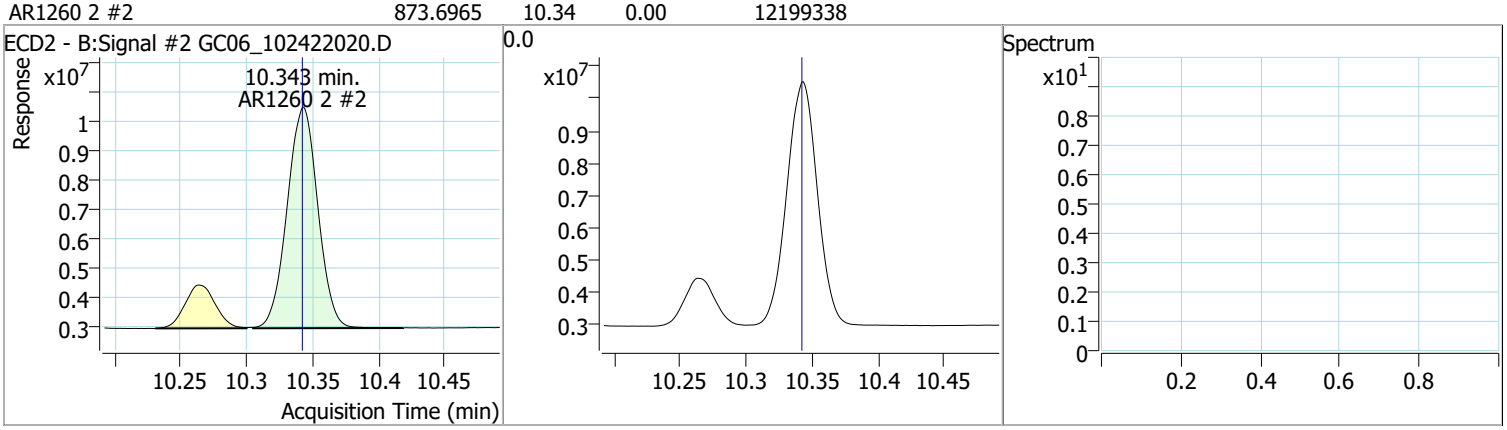
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	885.3872	10.09	0.00	10289089				



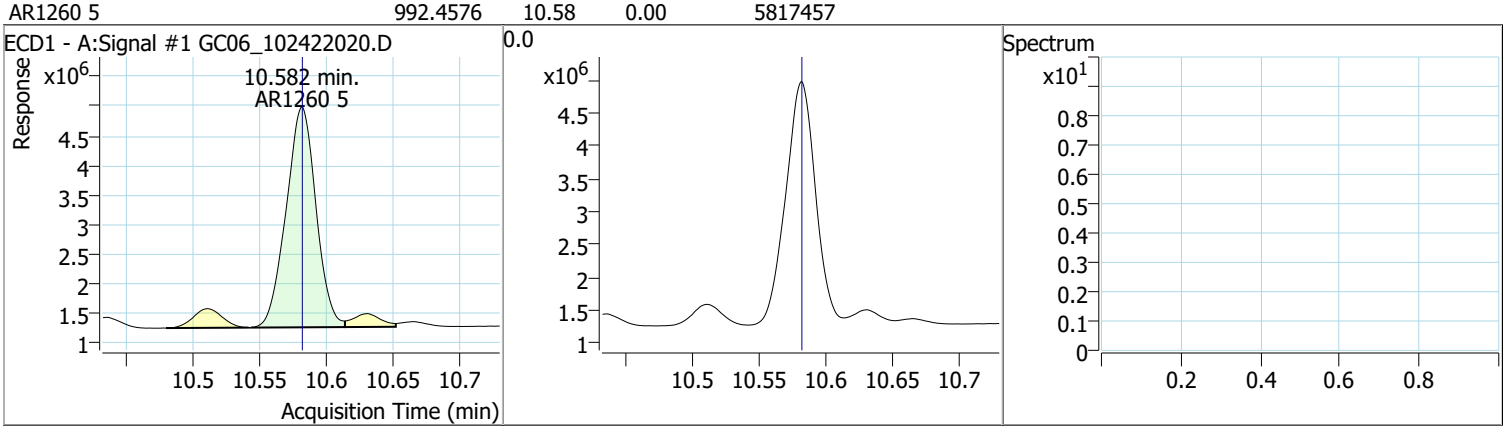
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	988.8343	10.22	0.00	2742861				



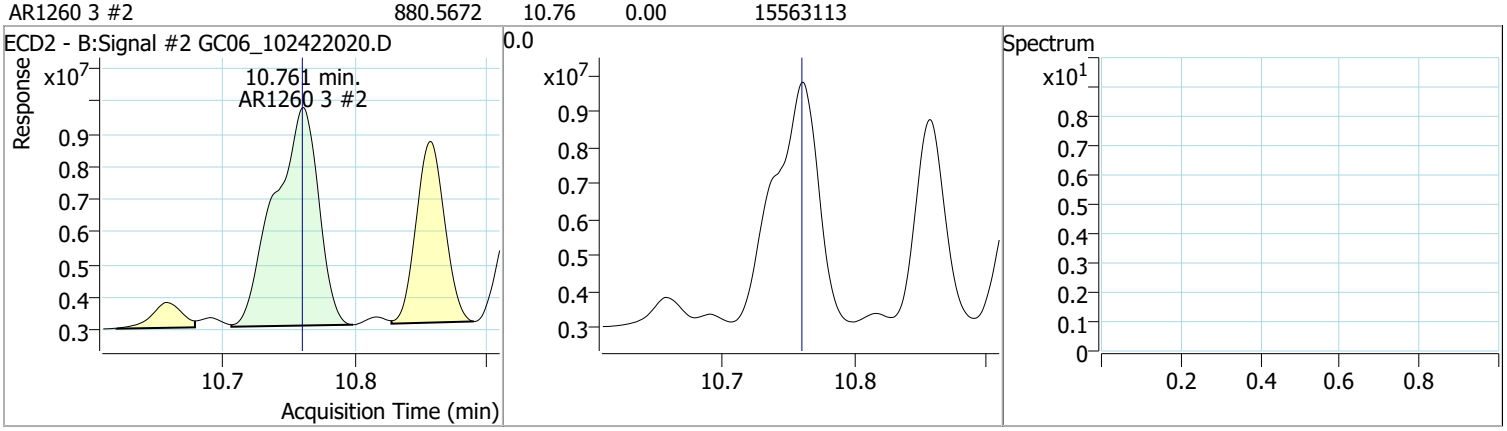
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	873.6965	10.34	0.00	12199338				



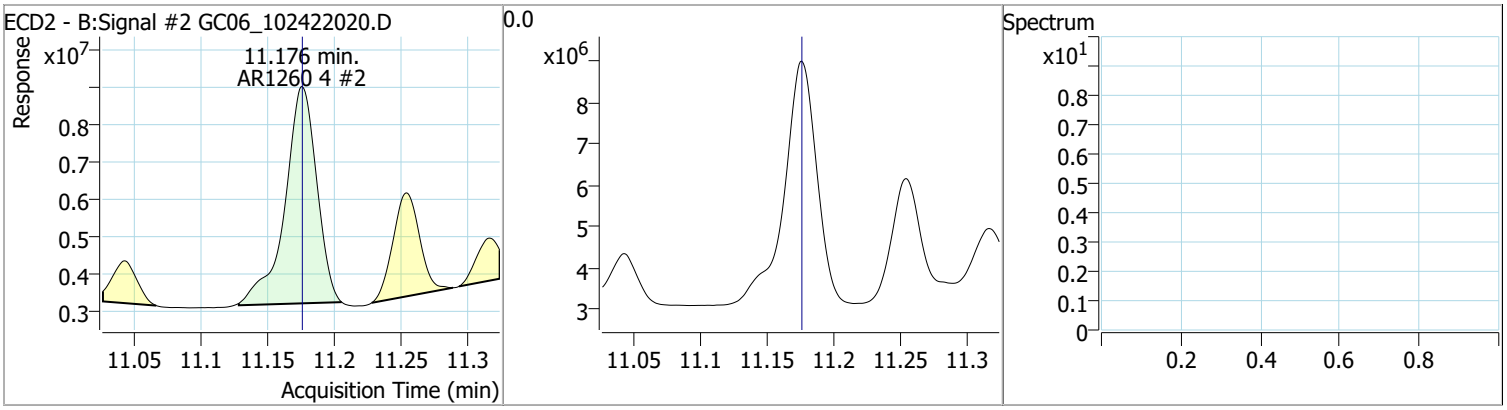
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	992.4576	10.58	0.00	5817457				



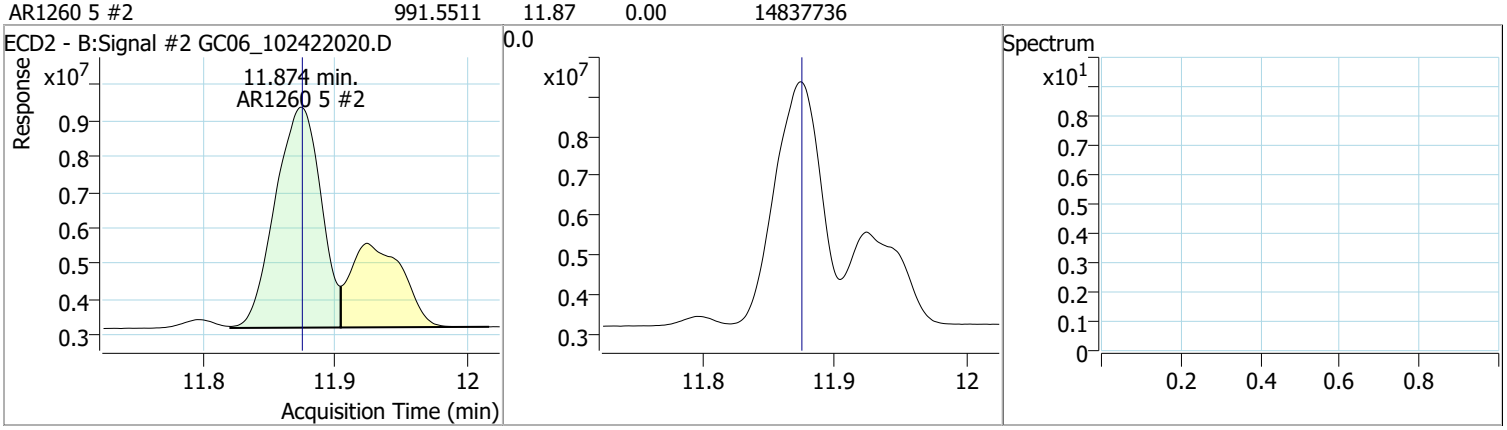
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	880.5672	10.76	0.00	15563113				



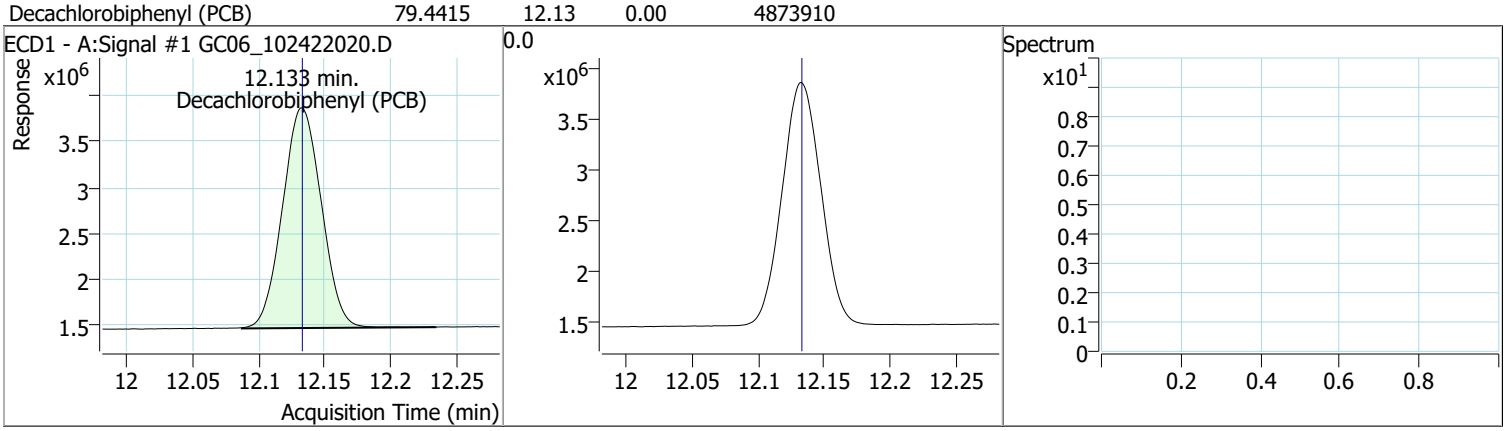
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	974.1517	11.18	0.00	9679021				



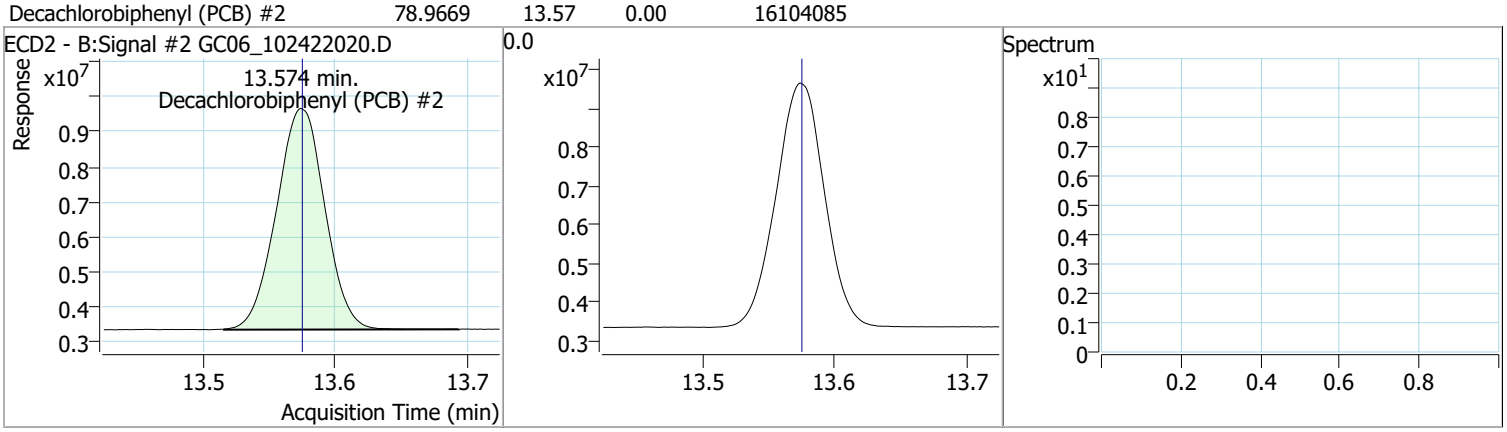
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	991.5511	11.87	0.00	14837736				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	79.4415	12.13	0.00	4873910				

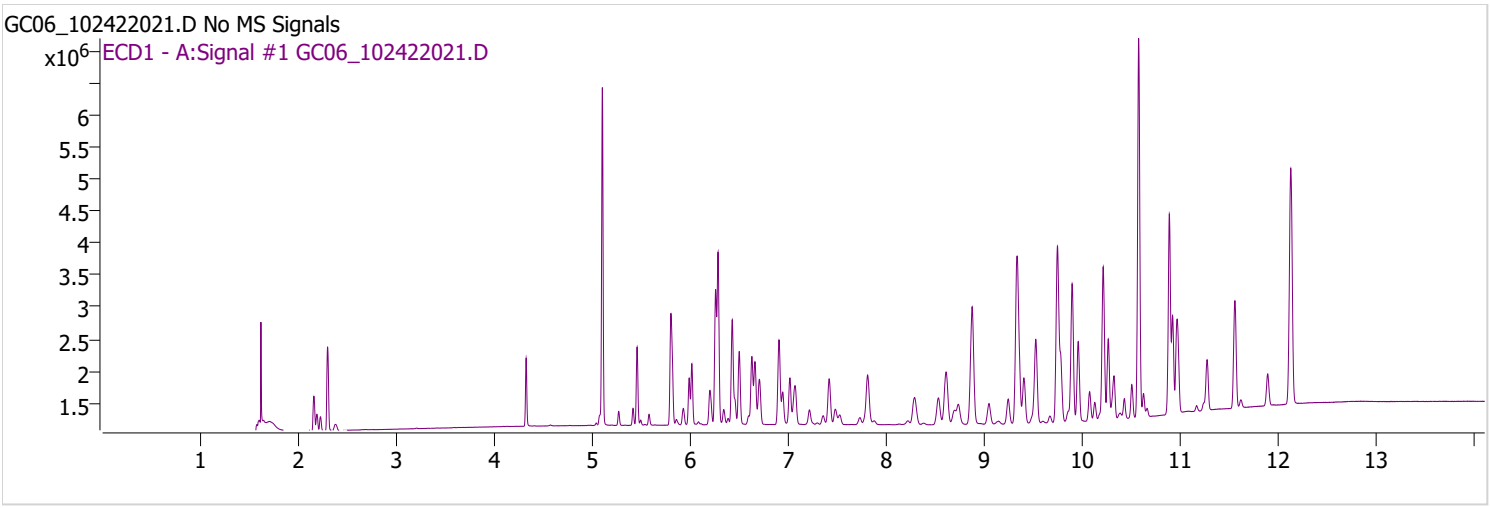


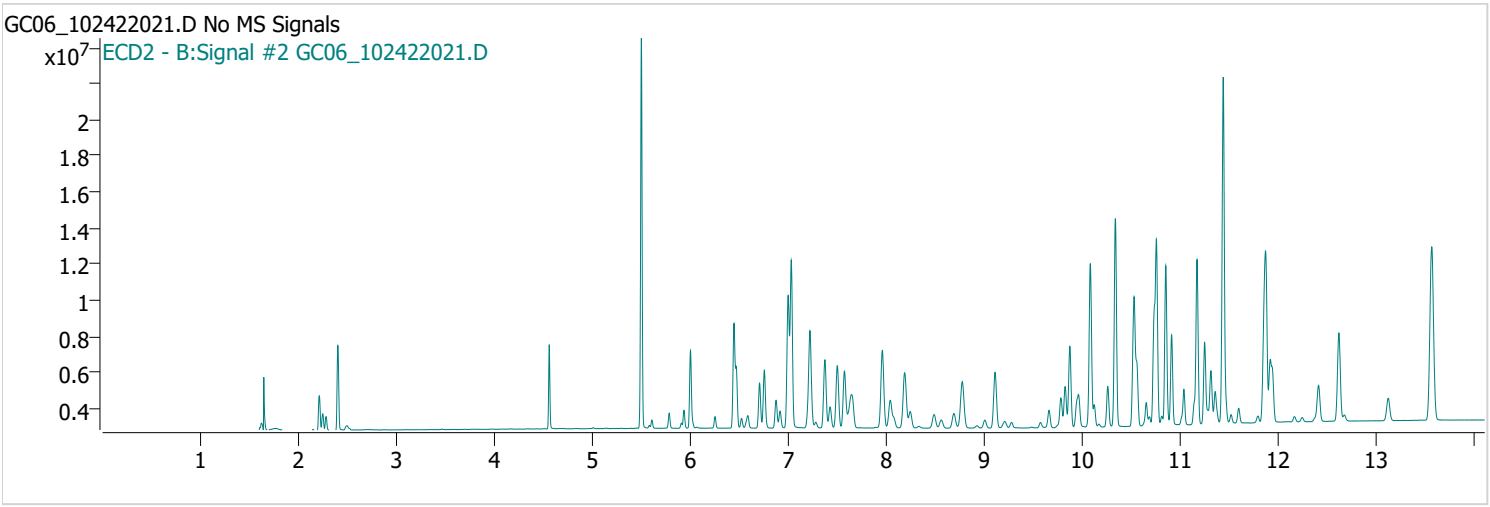
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	78.9669	13.57	0.00	16104085				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422021.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 7:31:42 PM
Sample Name	ICAL, S17270	Instrument	SVOA-GC06
Vial	18	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



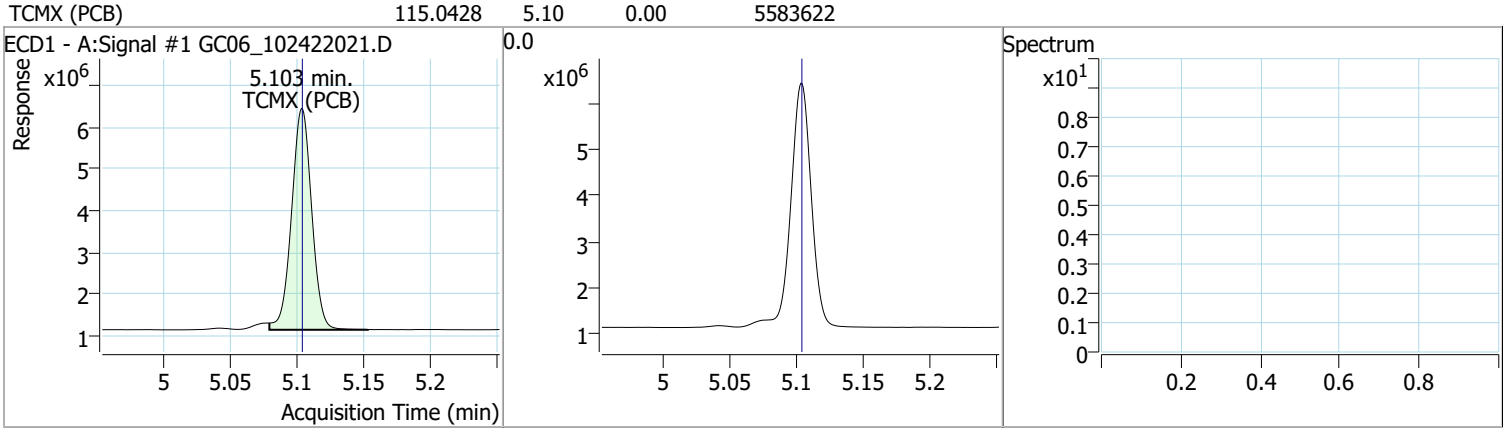


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.325	0.0	1009505.147	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.561	0.0	4057066.575	20.0000	ng/ml		-0.001
System Monitoring Compounds							
S TCMX (PCB)	5.103	0.0	5583622.088	115.0428	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 575.21%		*	
S TCMX (PCB) #2	5.502	0.0	23031168.075	118.2063	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 591.03%		*	
S Decachlorobiphenyl (PCB)	12.134	0.0	7593776.012	119.7892	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 598.95%		*	
S Decachlorobiphenyl (PCB) #2	13.573	0.0	25131513.397	119.6729	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 598.36%		*	
Target Compounds							QValue

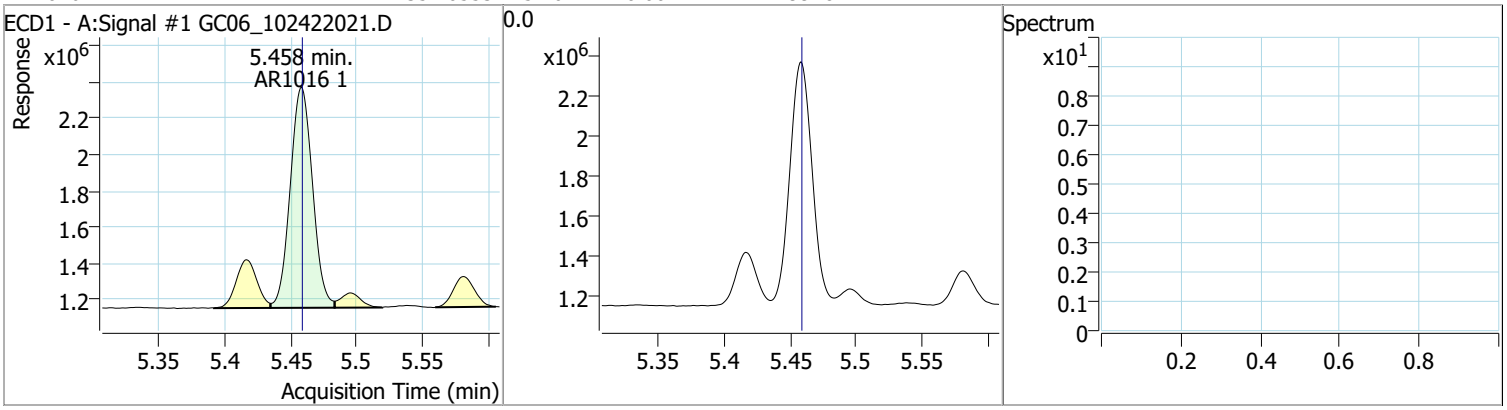
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.458	0.0	1429948.327	1351.0553	ng/ml		100
T AR1016 2	5.804	0.0	3030710.898	1424.7519	ng/ml		100
T AR1016 1 #2	6.003	0.0	5721647.171	1356.9347	ng/ml		100
T AR1016 3	6.285	0.0	3611169.947	1345.7155	ng/ml		100
T AR1016 4	6.430	0.0	2777407.544	1360.8515	ng/ml		100
T AR1016 2 #2	6.448	0.0	8221820.088	1350.7511	ng/ml	m	100
T AR1016 5	6.908	0.0	2242691.834	1364.2649	ng/ml		100
T AR1016 3 #2	7.033	0.0	15343105.691	1387.2792	ng/ml		100
T AR1016 4 #2	7.223	0.0	11004271.290	1393.6991	ng/ml		100
T AR1016 5 #2	7.963	0.0	9009188.371	1403.7375	ng/ml		100
T AR1260 1	8.880	0.0	4266432.480	1249.9957	ng/ml		100
T AR1260 2	9.339	0.0	6538469.983	1256.8526	ng/ml		100
T AR1260 3	9.751	0.0	7045185.682	1295.6677	ng/ml		100
T AR1260 1 #2	10.087	0.0	15645489.933	1295.8237	ng/ml		100
T AR1260 4	10.218	0.0	4208394.379	1449.9072	ng/ml		100
T AR1260 2 #2	10.343	0.0	18653948.726	1285.8656	ng/ml		100
T AR1260 5	10.580	0.0	9185947.111	1499.3950	ng/ml		100
T AR1260 3 #2	10.761	0.0	24133856.541	1314.2961	ng/ml		100
T AR1260 4 #2	11.177	0.0	14547609.435	1419.8121	ng/ml		100
T AR1260 5 #2	11.876	0.0	23188941.135	1500.9271	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

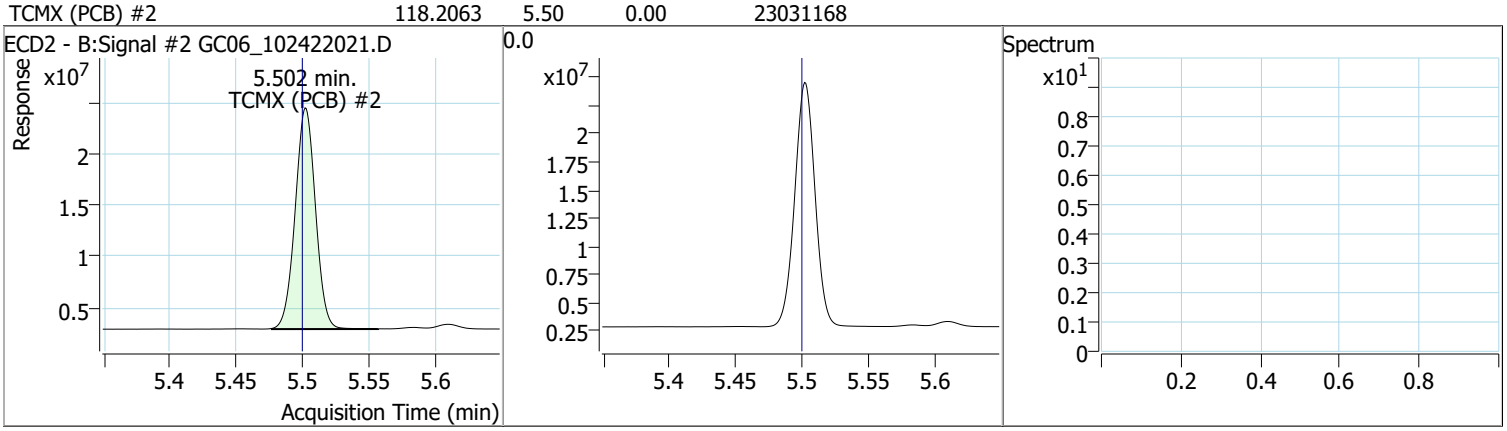
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	115.0428	5.10	0.00	5583622				



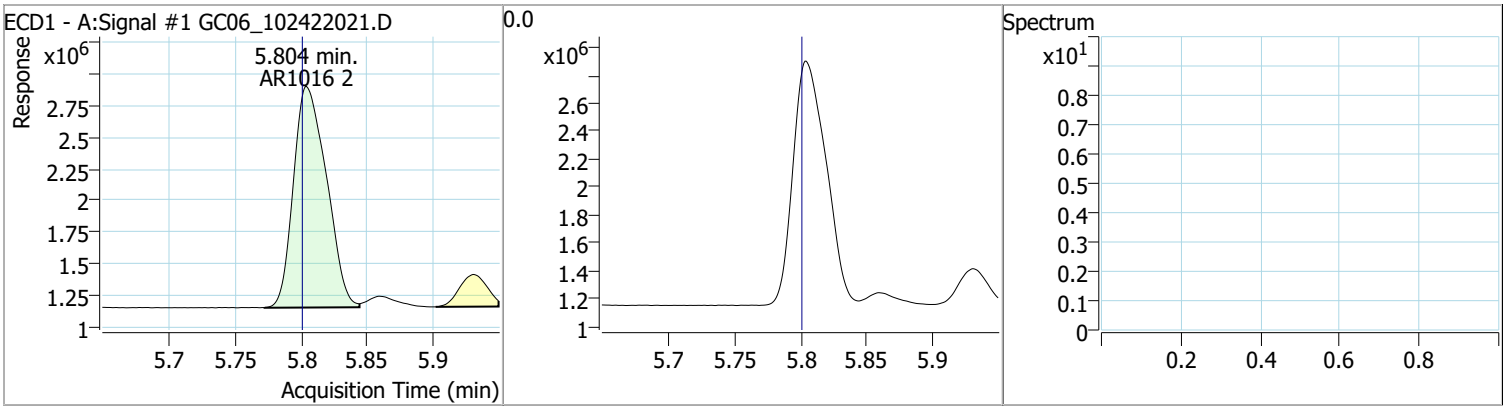
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	1351.0553	5.46	0.00	1429948				



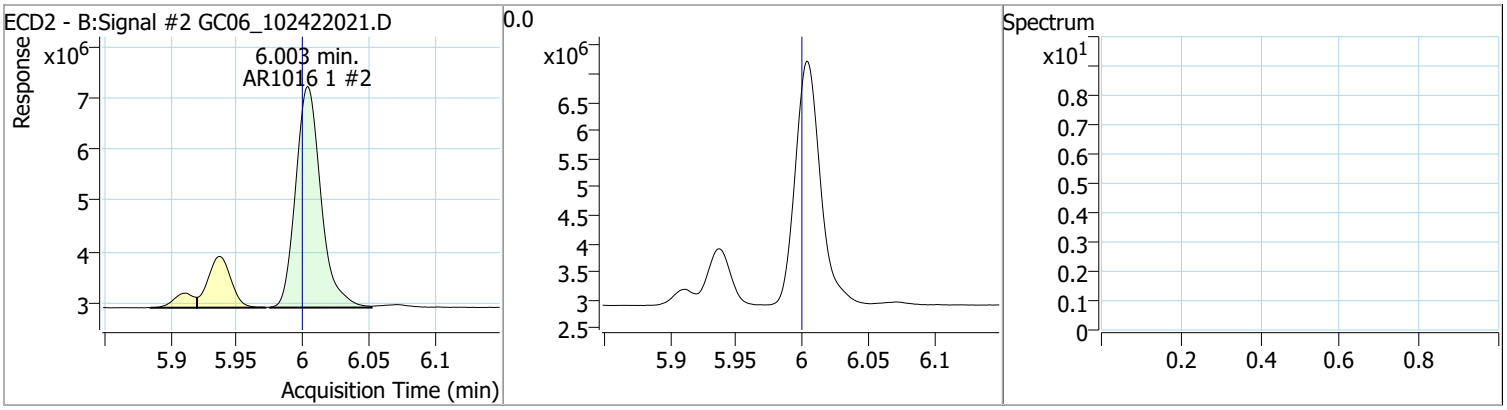
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	118.2063	5.50	0.00	23031168				



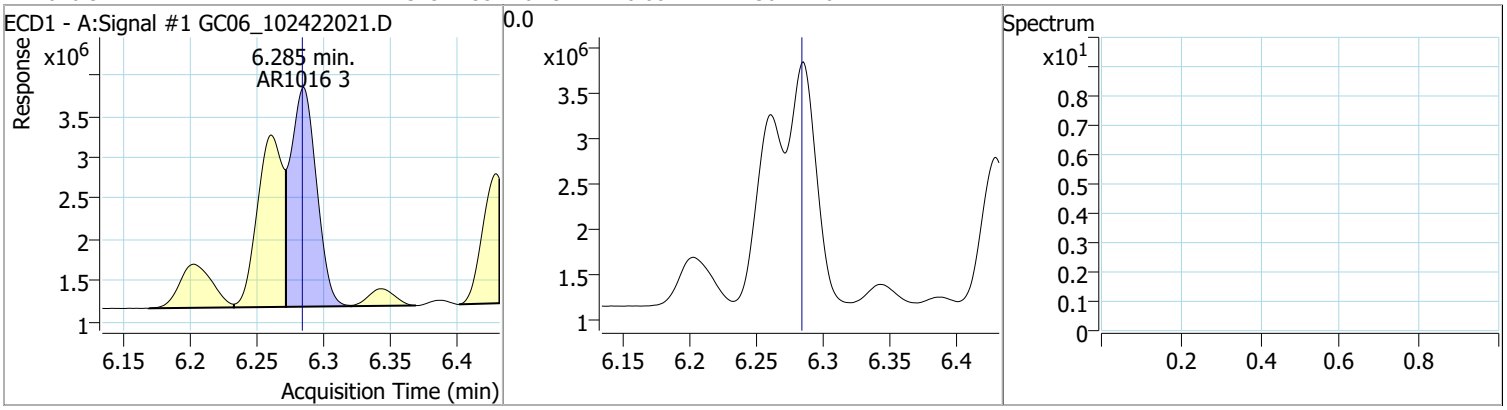
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	1424.7519	5.80	0.00	3030711				



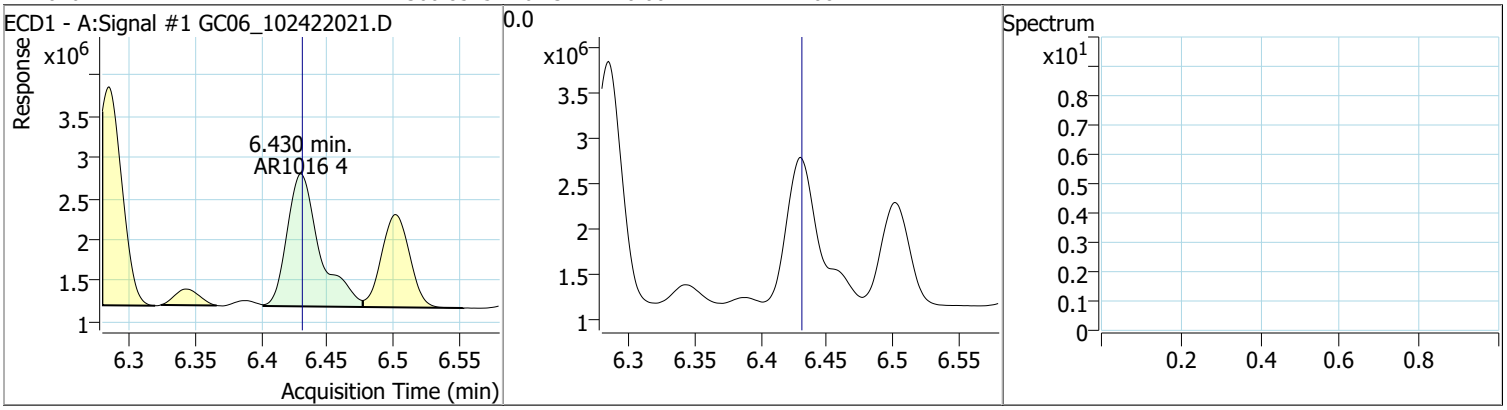
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AR1016 1 #2	1356.9347	6.00	0.00	5721647				



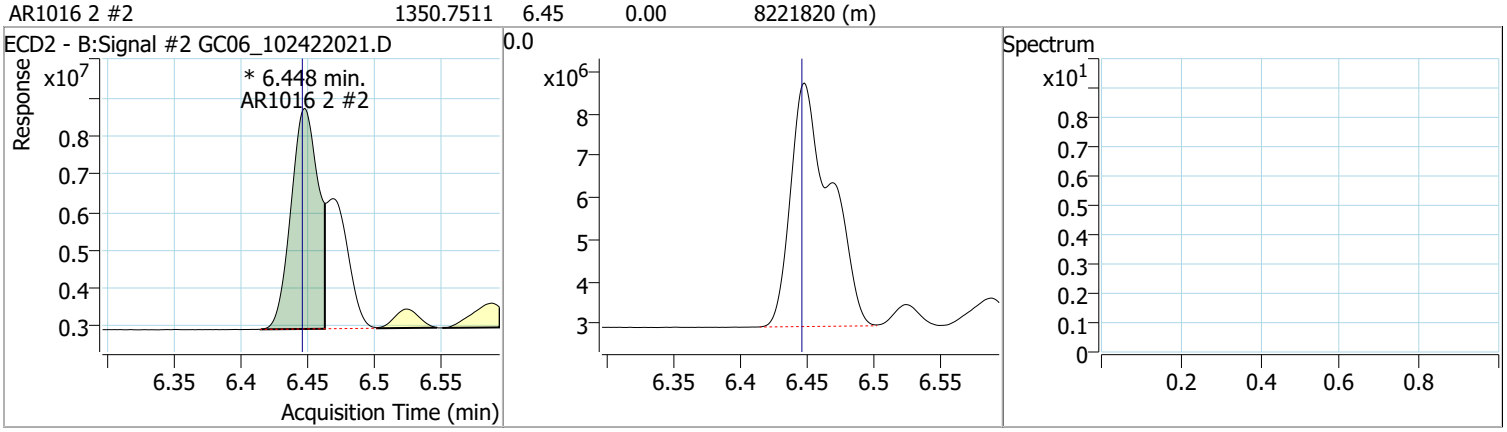
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AR1016 3	1345.7155	6.29	0.00	3611170				



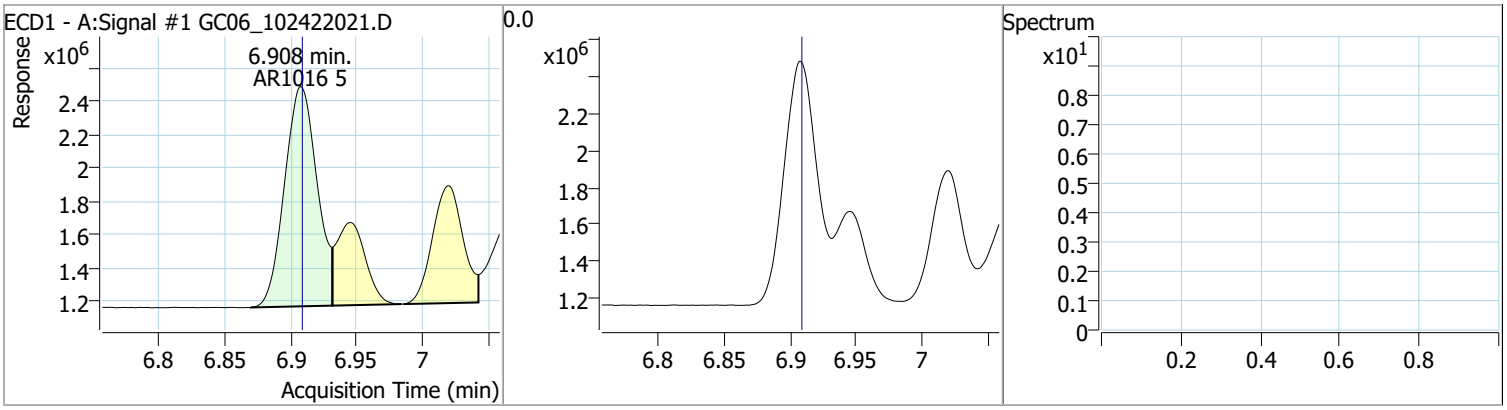
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1360.8515	6.43	0.00	2777408				



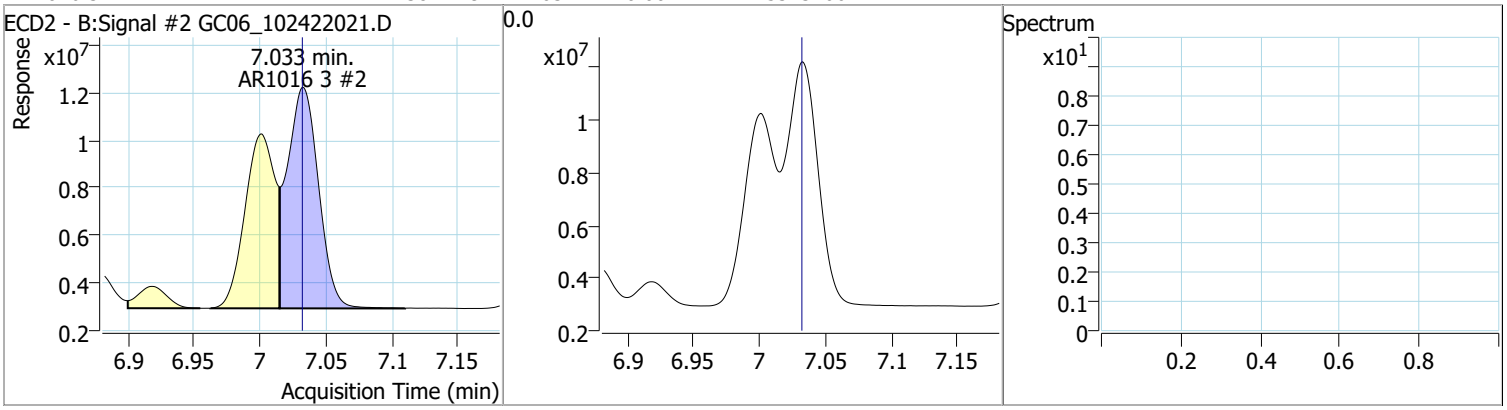
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AR1016 2 #2	1350.7511	6.45	0.00	8221820 (m)				



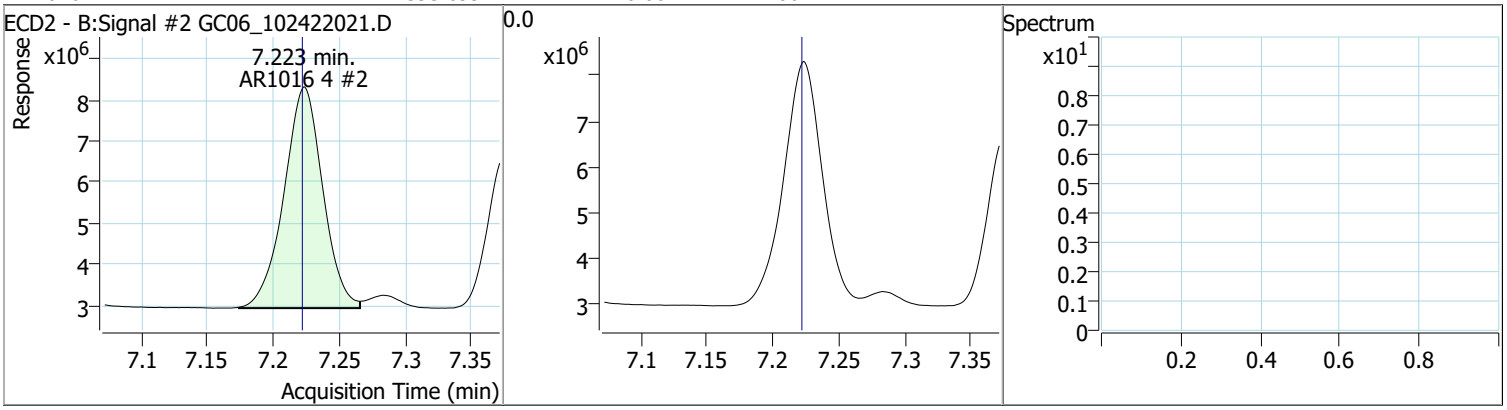
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AR1016 5	1364.2649	6.91	0.00	2242692				



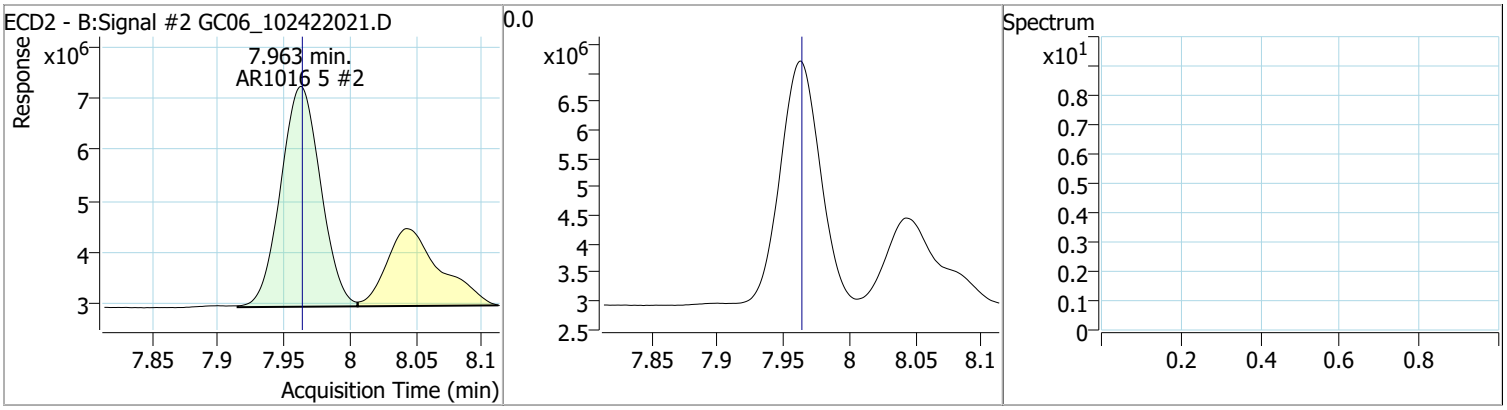
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AR1016 3 #2	1387.2792	7.03	0.00	15343106				



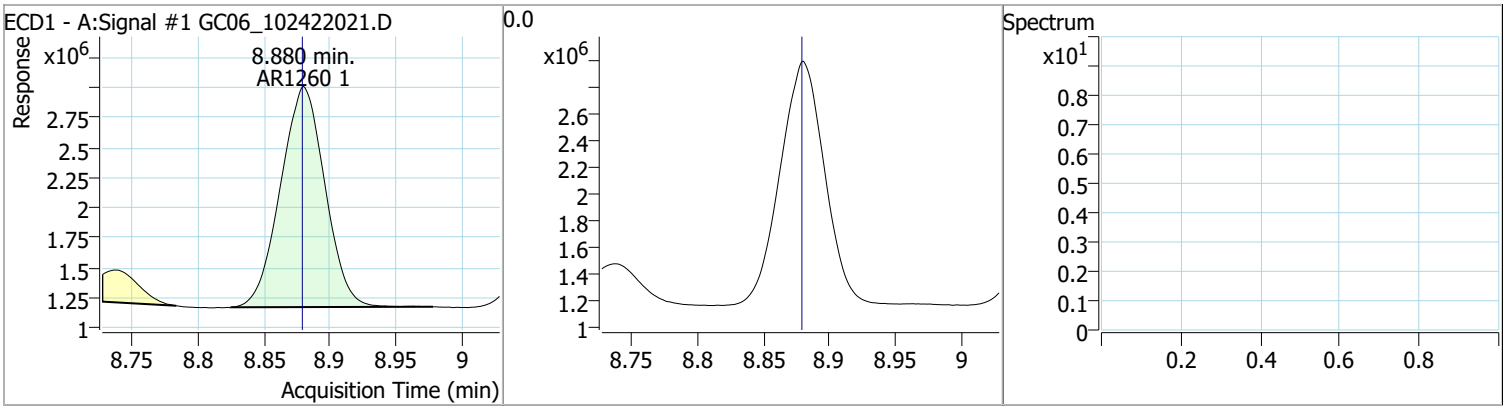
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AR1016 4 #2	1393.6991	7.22	0.00	11004271				



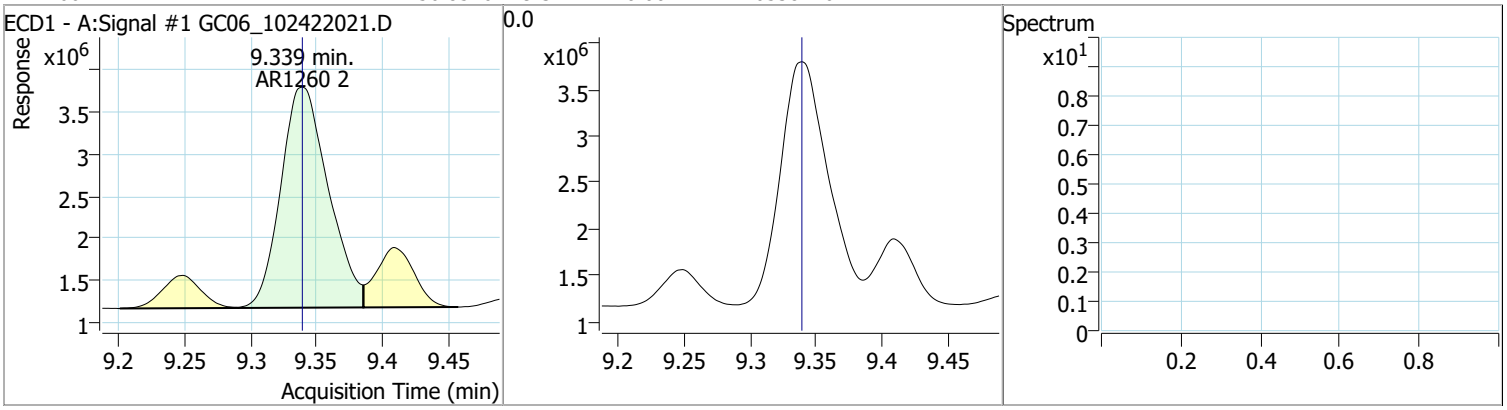
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AR1016 5 #2	1403.7375	7.96	0.00	9009188				



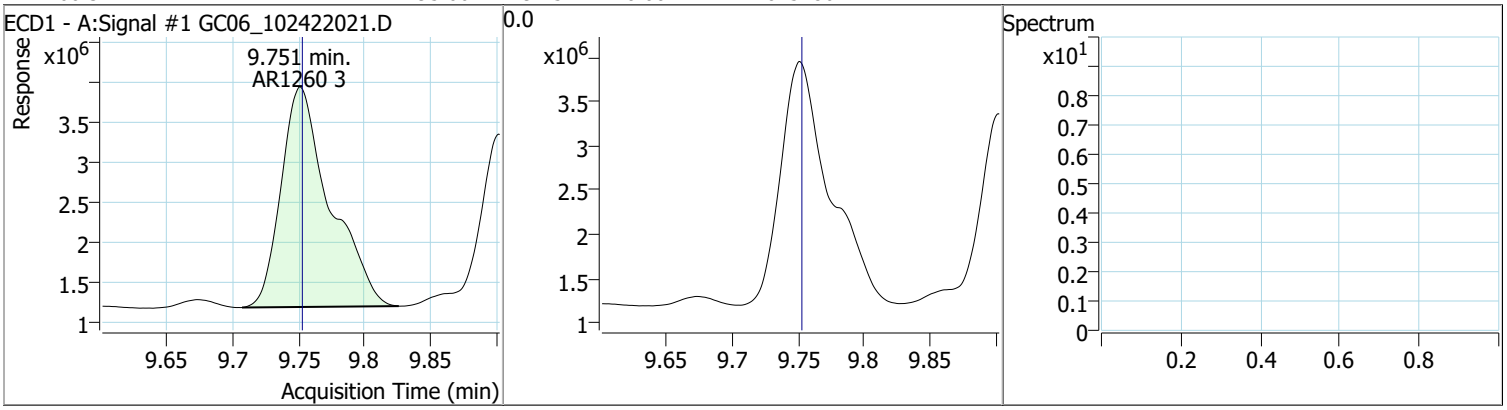
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1249.9957	8.88	0.00	4266432				



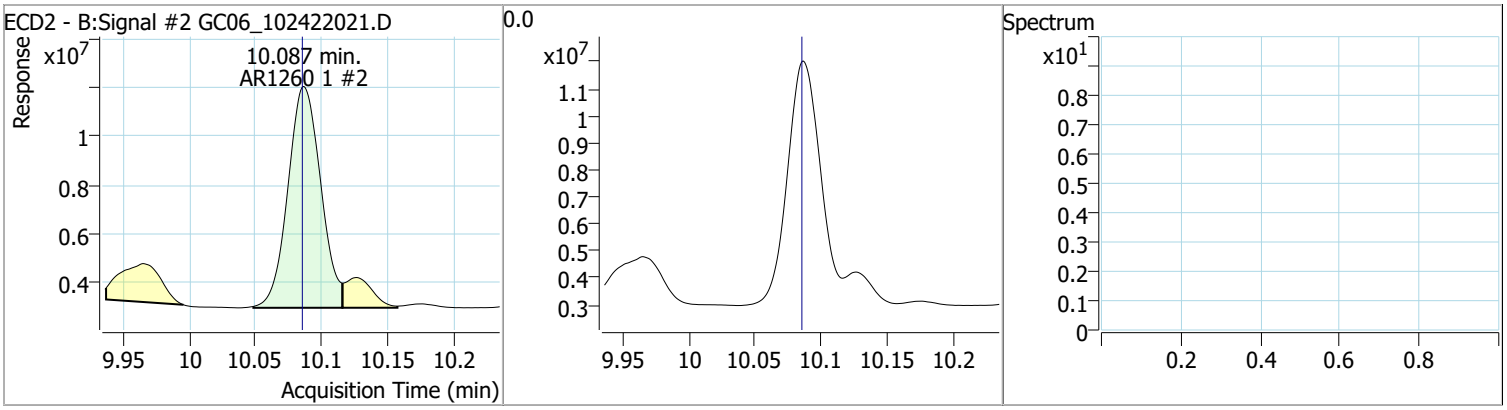
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1256.8526	9.34	0.00	6538470				



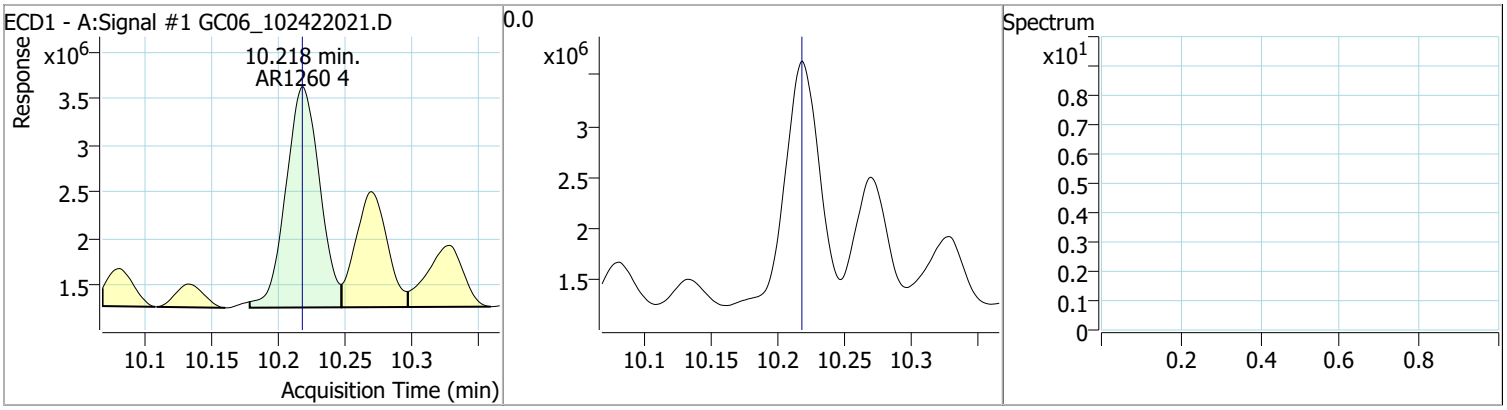
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	1295.6677	9.75	0.00	7045186				



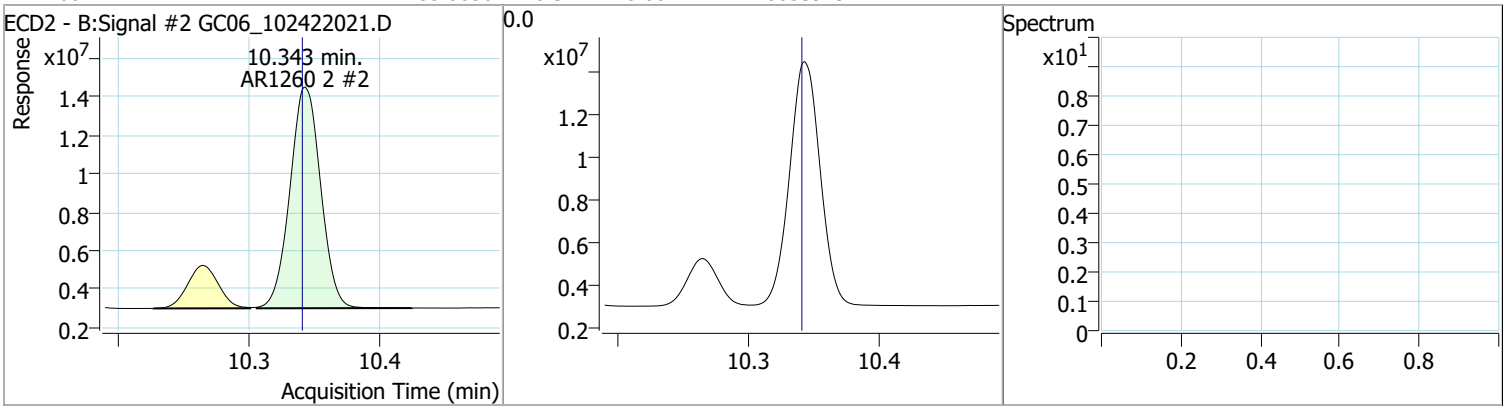
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	1295.8237	10.09	0.00	15645490				



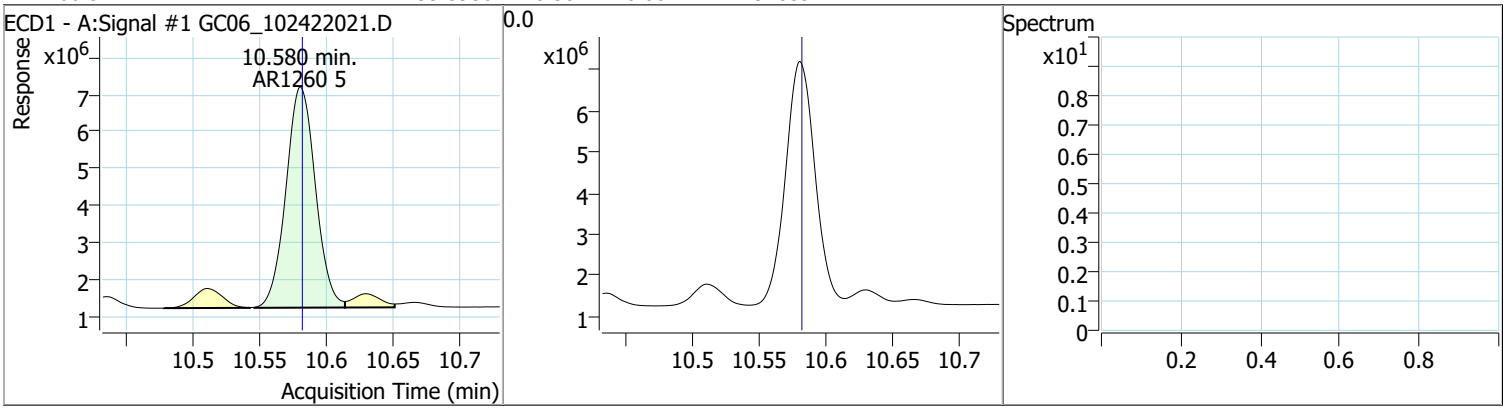
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	1449.9072	10.22	0.00	4208394				



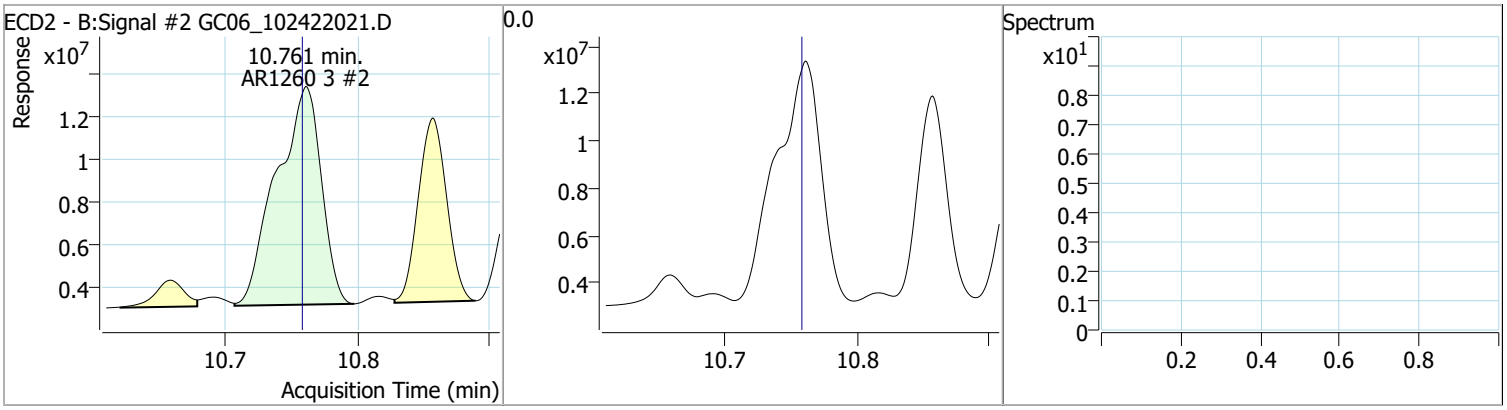
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AR1260 2 #2	1285.8656	10.34	0.00	18653949				



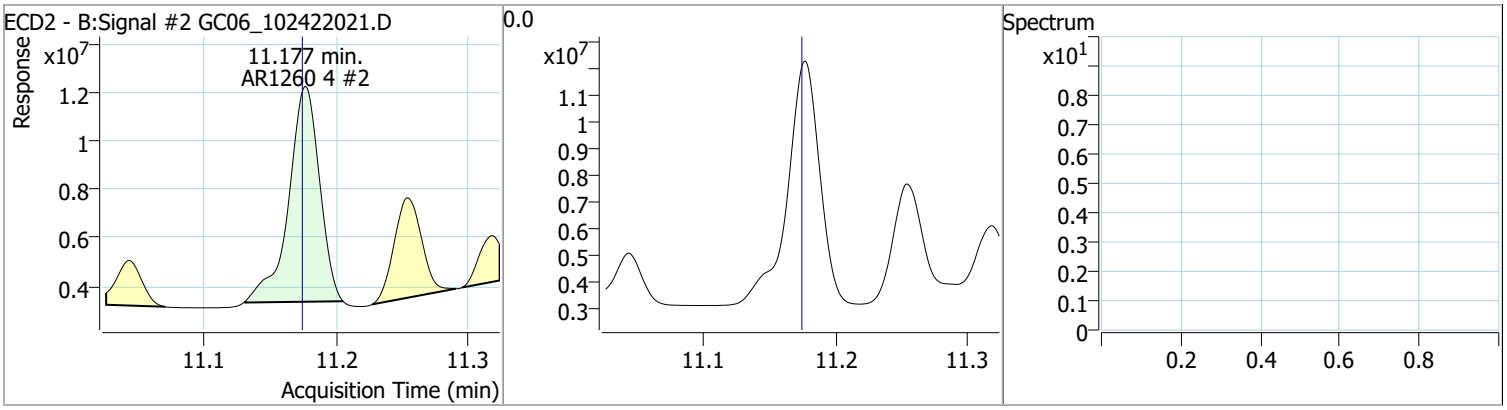
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	1499.3950	10.58	0.00	9185947				



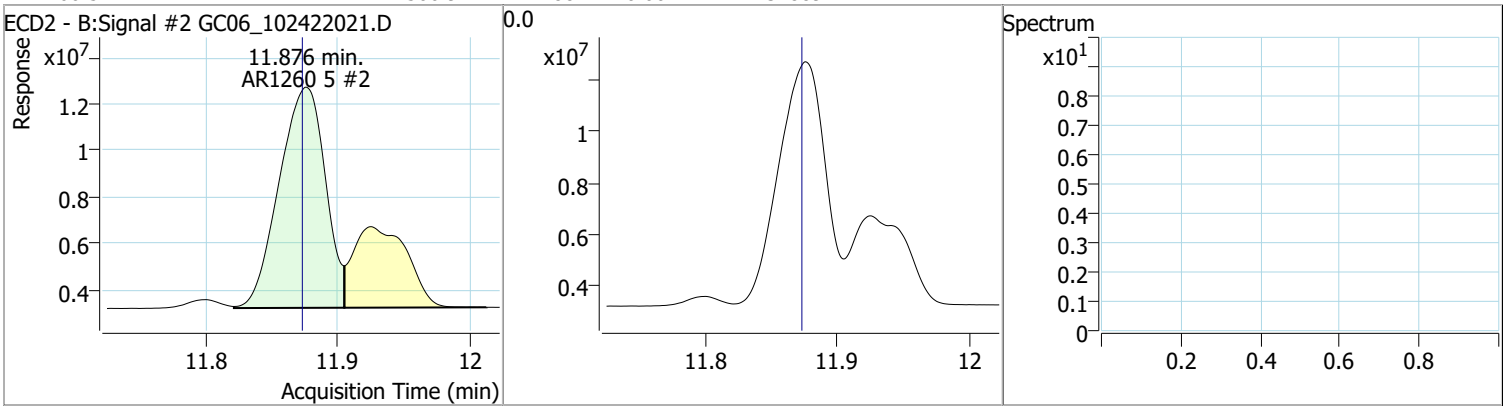
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	1314.2961	10.76	0.00	24133857				



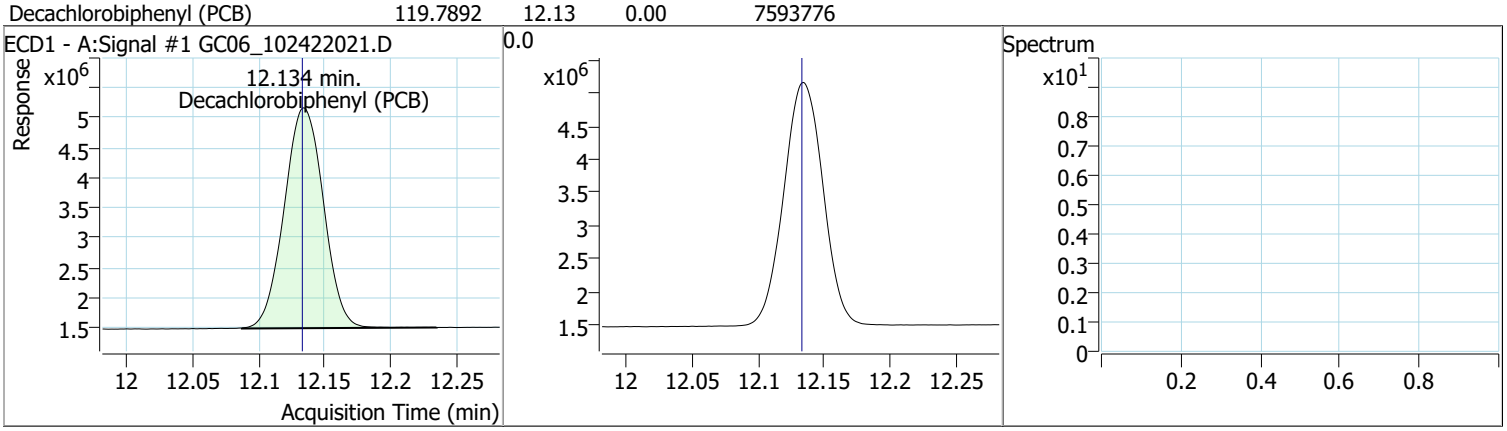
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	1419.8121	11.18	0.00	14547609				



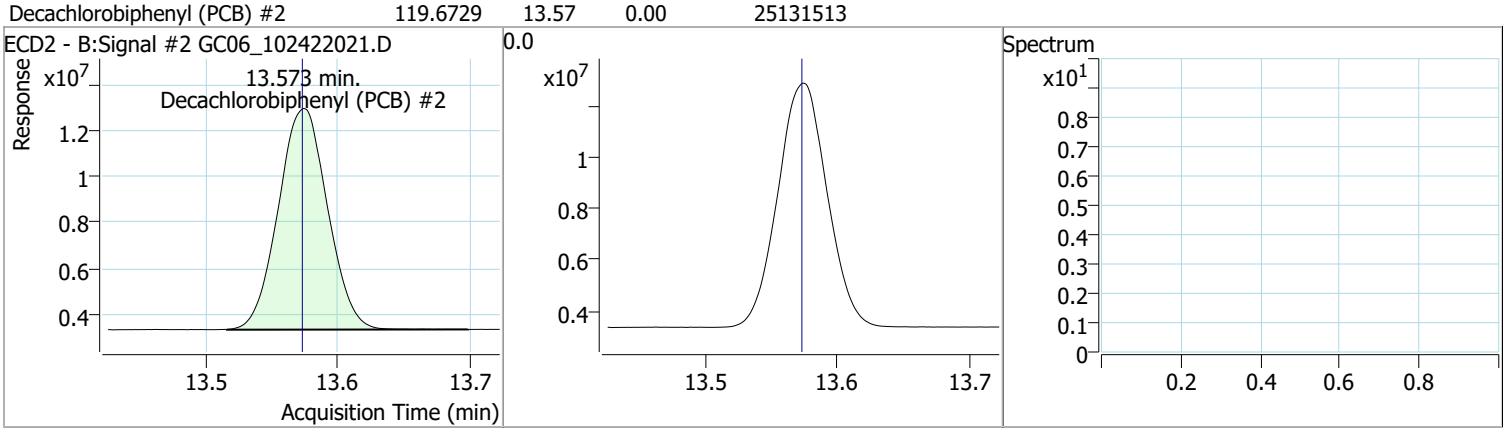
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	1500.9271	11.88	0.00	23188941				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	119.7892	12.13	0.00	7593776				

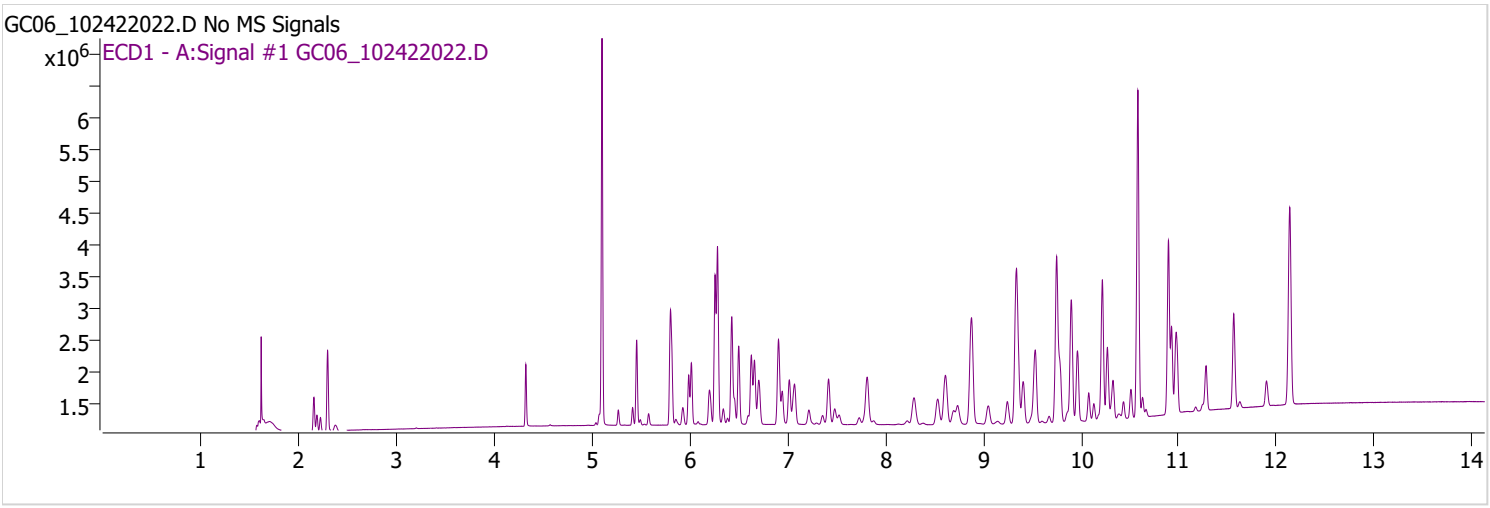


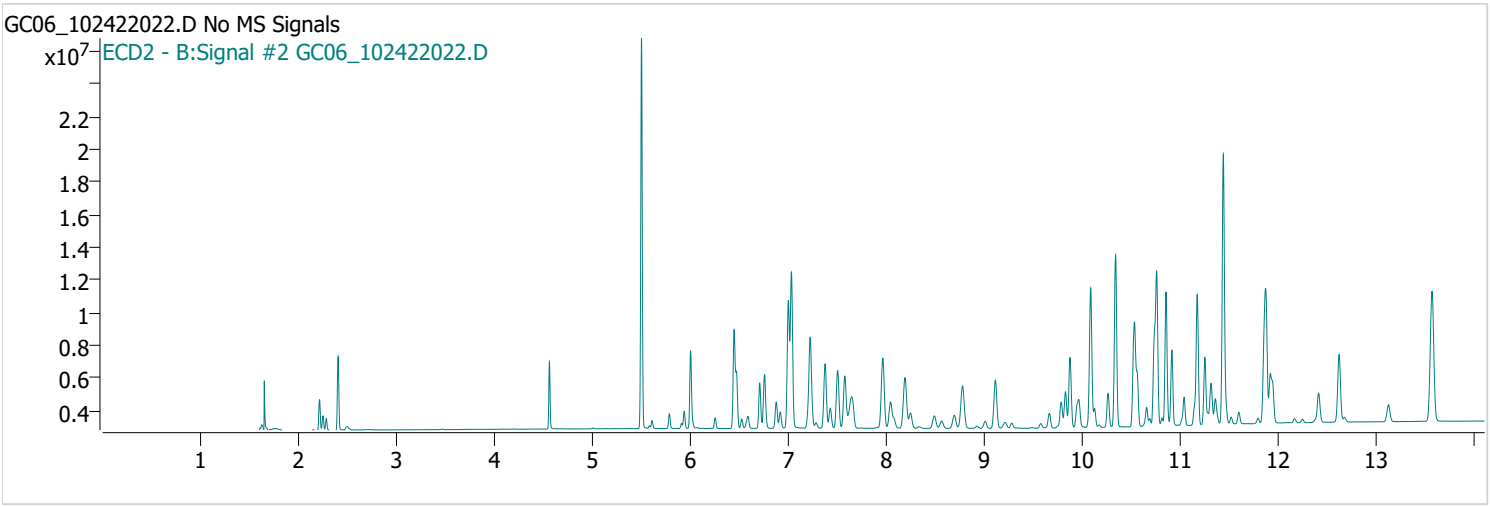
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	119.6729	13.57	0.00	25131513				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422022.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 7:49:40 PM
Sample Name	ICAL, S17271	Instrument	SVOA-GC06
Vial	19	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



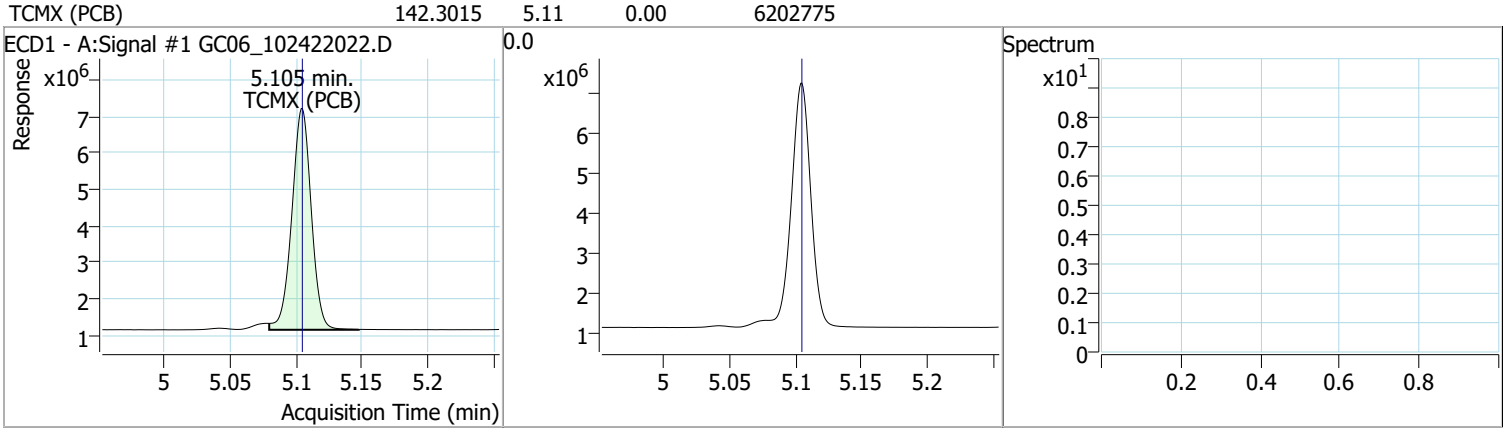


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.326	0.0	906626.221	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	3691149.717	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.105	0.0	6202774.952	142.3015	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 711.51%		*	
S TCMX (PCB) #2	5.503	0.0	25651002.263	144.7037	ng/ml		0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 723.52%		*	
S Decachlorobiphenyl (PCB)	12.134	0.0	6098843.349	106.6672	ng/ml		0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 533.34%		*	
S Decachlorobiphenyl (PCB) #2	13.573	0.0	20258174.033	105.7889	ng/ml		-0.002
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 528.94%		*	
Target Compounds							QValue

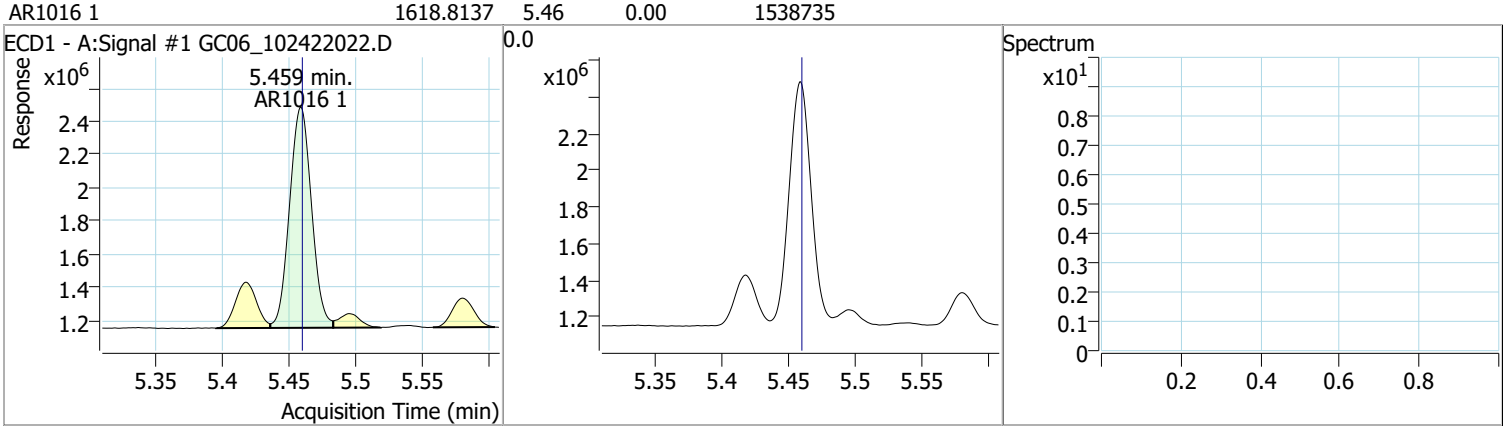
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.459	0.0	1538734.960	1618.8137	ng/ml		100
T AR1016 2	5.805	0.0	3184204.270	1669.3851	ng/ml		100
T AR1016 1 #2	6.003	0.0	6194471.019	1614.7027	ng/ml		100
T AR1016 3	6.285	0.0	3827451.052	1588.1636	ng/ml		100
T AR1016 4	6.431	0.0	2903211.966	1583.9087	ng/ml		100
T AR1016 2 #2	6.448	0.0	8887205.164	1604.8078	ng/ml	m	100
T AR1016 5	6.908	0.0	2292606.771	1552.8837	ng/ml		100
T AR1016 3 #2	7.033	0.0	15846370.157	1574.8198	ng/ml		100
T AR1016 4 #2	7.223	0.0	11463840.690	1595.8363	ng/ml		100
T AR1016 5 #2	7.966	0.0	9161537.220	1568.9859	ng/ml		100
T AR1260 1	8.881	0.0	4117618.549	1343.2907	ng/ml		100
T AR1260 2	9.341	0.0	6106282.504	1306.9692	ng/ml		100
T AR1260 3	9.752	0.0	6524007.873	1335.9676	ng/ml		100
T AR1260 1 #2	10.088	0.0	14980655.669	1363.7603	ng/ml		100
T AR1260 4	10.219	0.0	3788830.282	1453.5184	ng/ml		100
T AR1260 2 #2	10.343	0.0	17403792.021	1318.6185	ng/ml		100
T AR1260 5	10.582	0.0	8046003.993	1461.9072	ng/ml		100
T AR1260 3 #2	10.761	0.0	22258325.428	1332.3228	ng/ml		100
T AR1260 4 #2	11.176	0.0	13342427.945	1431.4709	ng/ml		100
T AR1260 5 #2	11.873	0.0	20128855.663	1431.1606	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

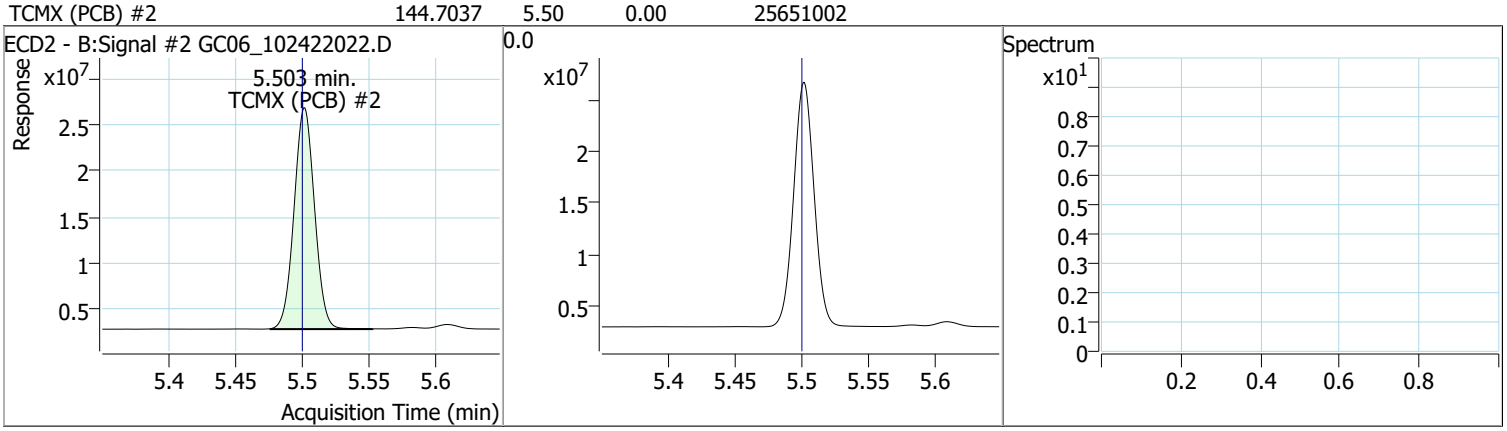
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	142.3015	5.11	0.00	6202775				



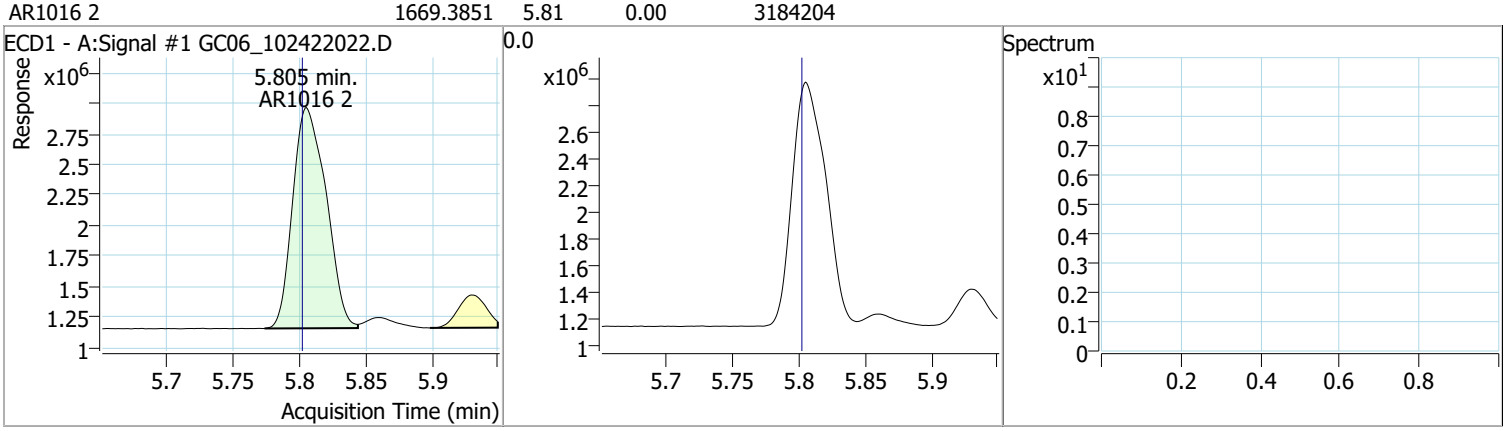
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	1618.8137	5.46	0.00	1538735				



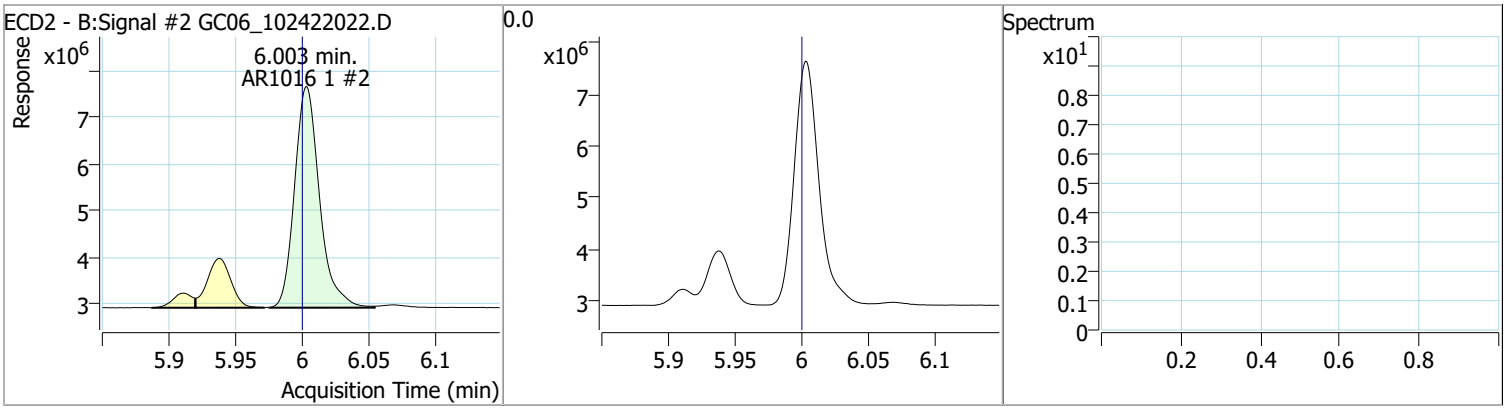
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	144.7037	5.50	0.00	25651002				



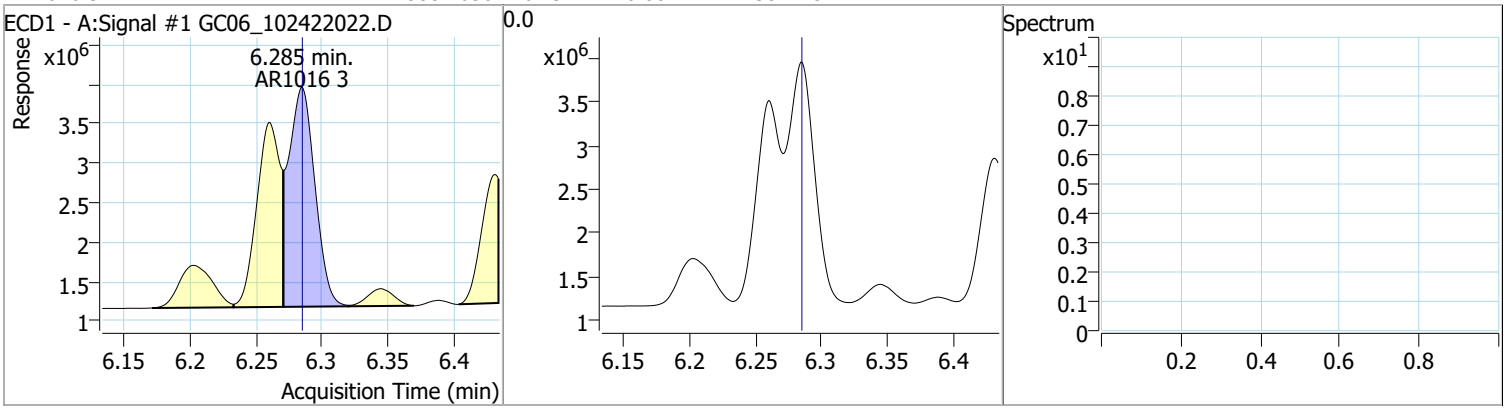
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	1669.3851	5.81	0.00	3184204				



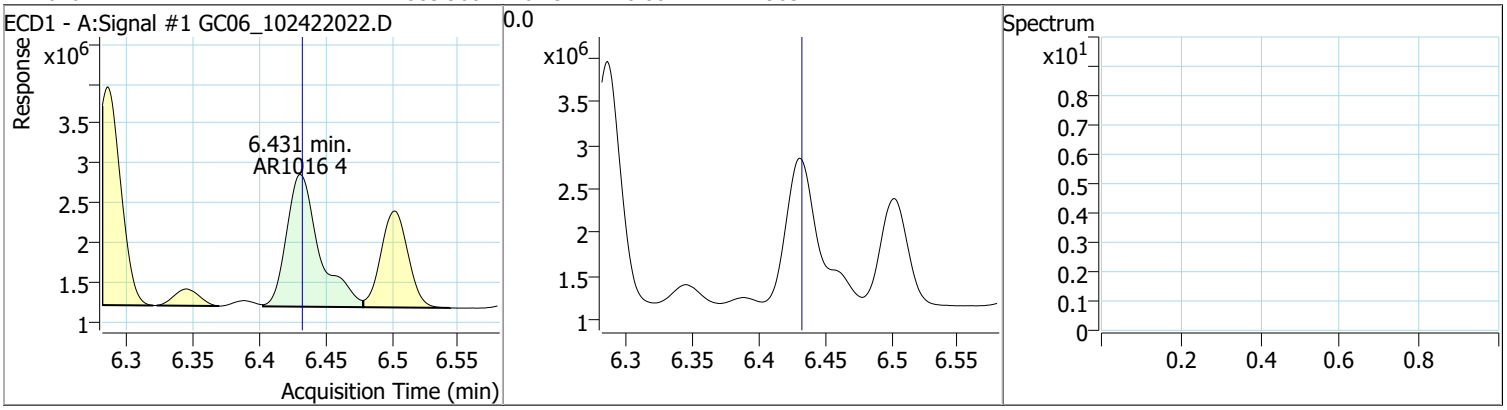
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	1614.7027	6.00	0.00	6194471				



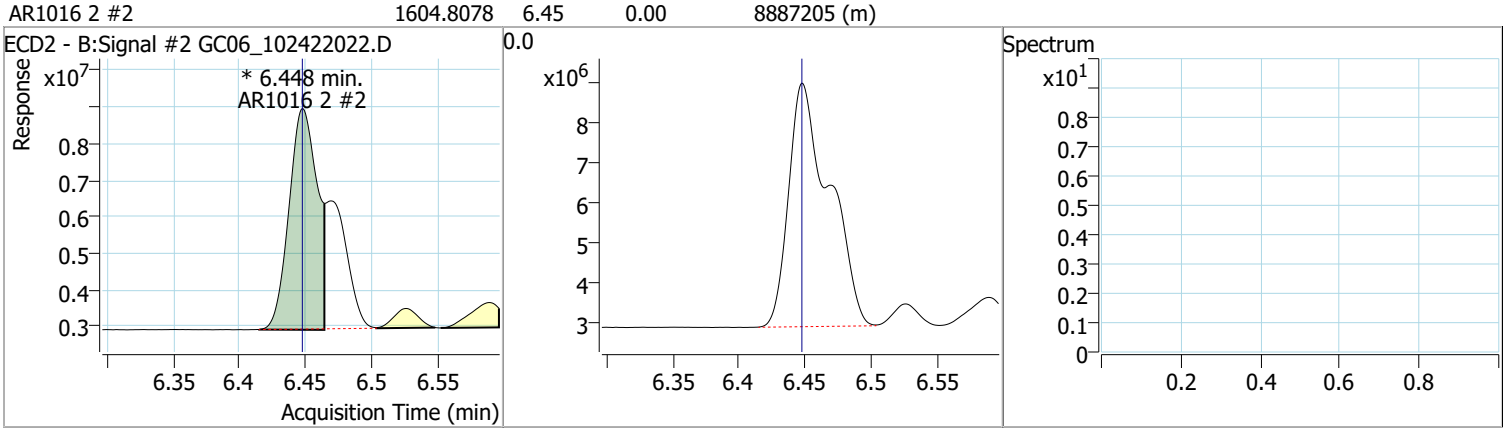
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	1588.1636	6.29	0.00	3827451				



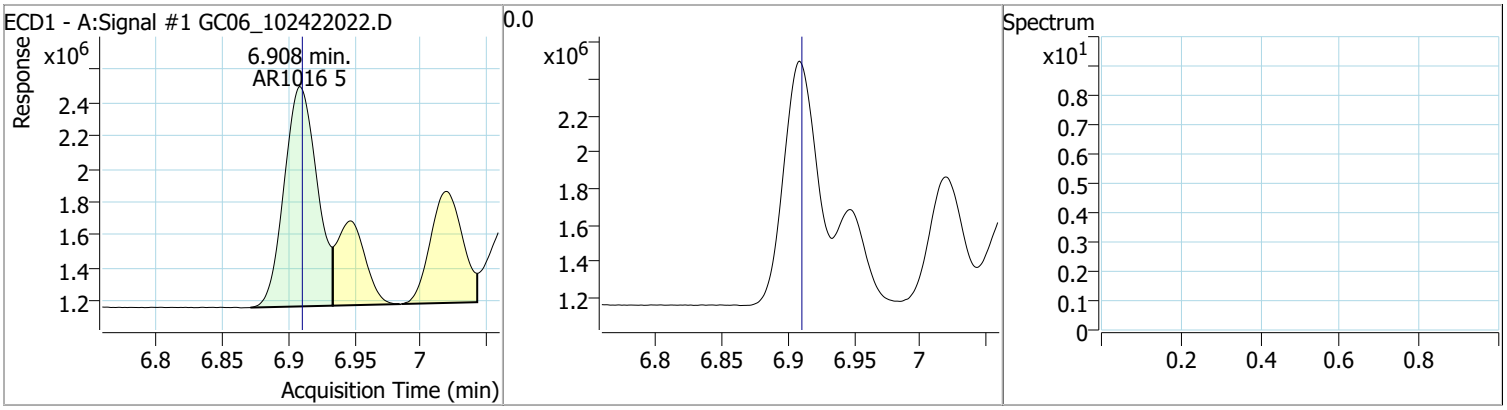
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	1583.9087	6.43	0.00	2903212				



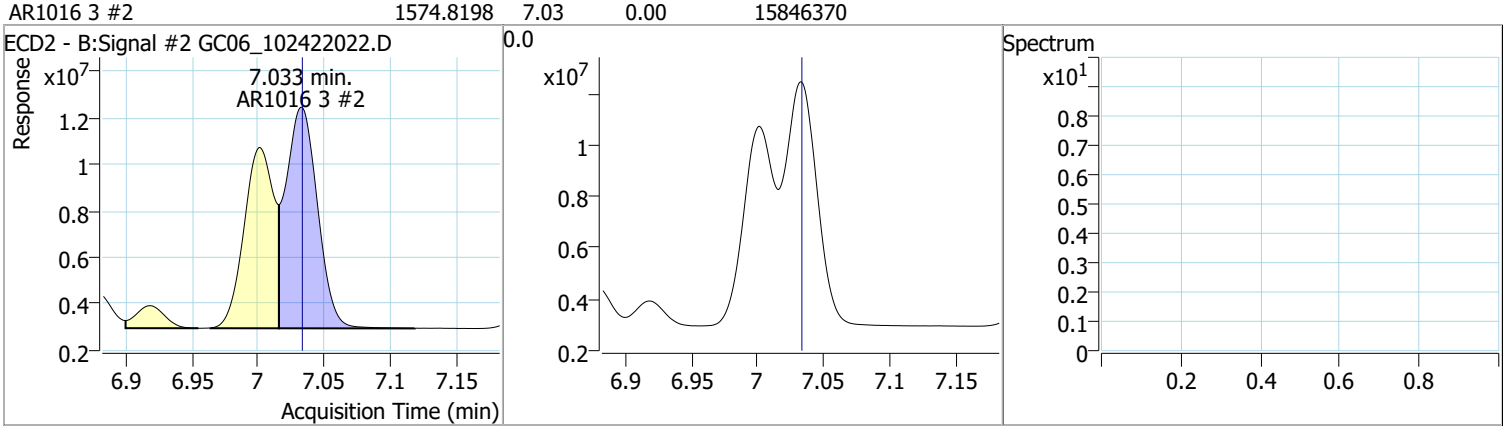
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	1604.8078	6.45	0.00	8887205 (m)				



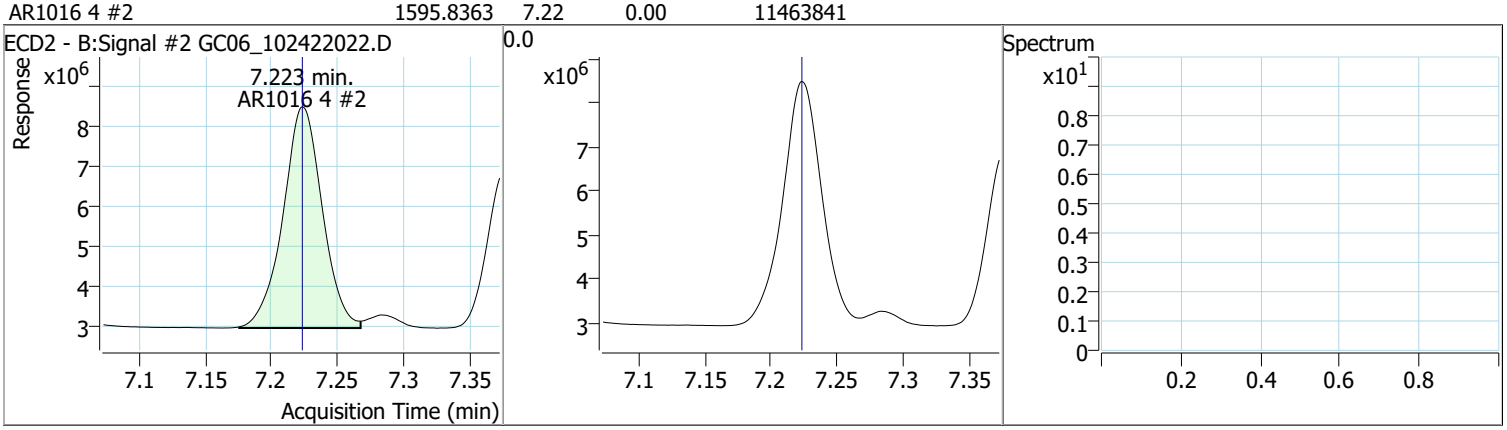
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	1552.8837	6.91	0.00	2292607				



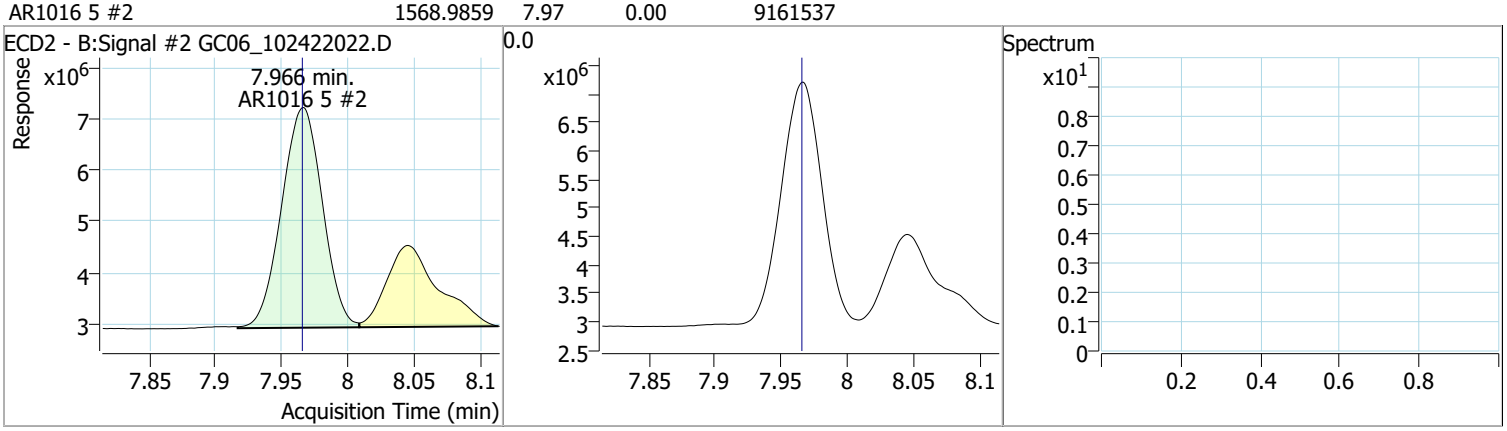
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	1574.8198	7.03	0.00	15846370				



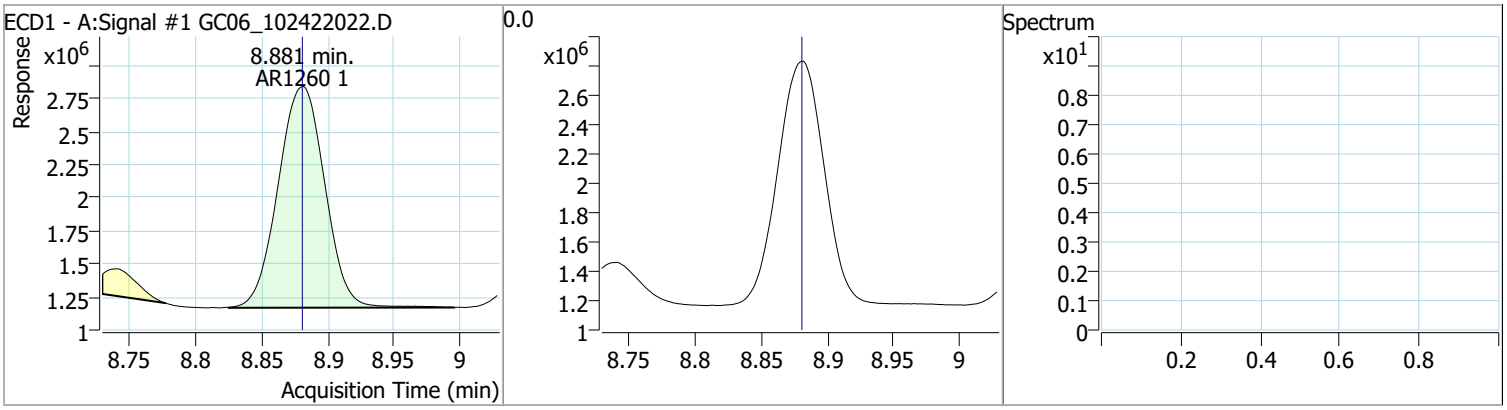
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AR1016 4 #2	1595.8363	7.22	0.00	11463841				



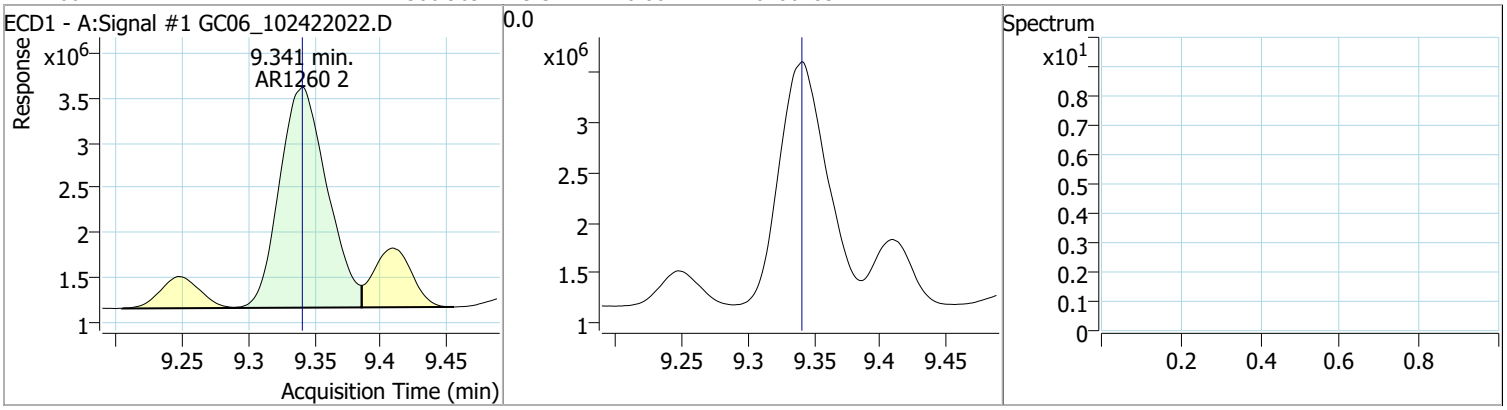
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	1568.9859	7.97	0.00	9161537				



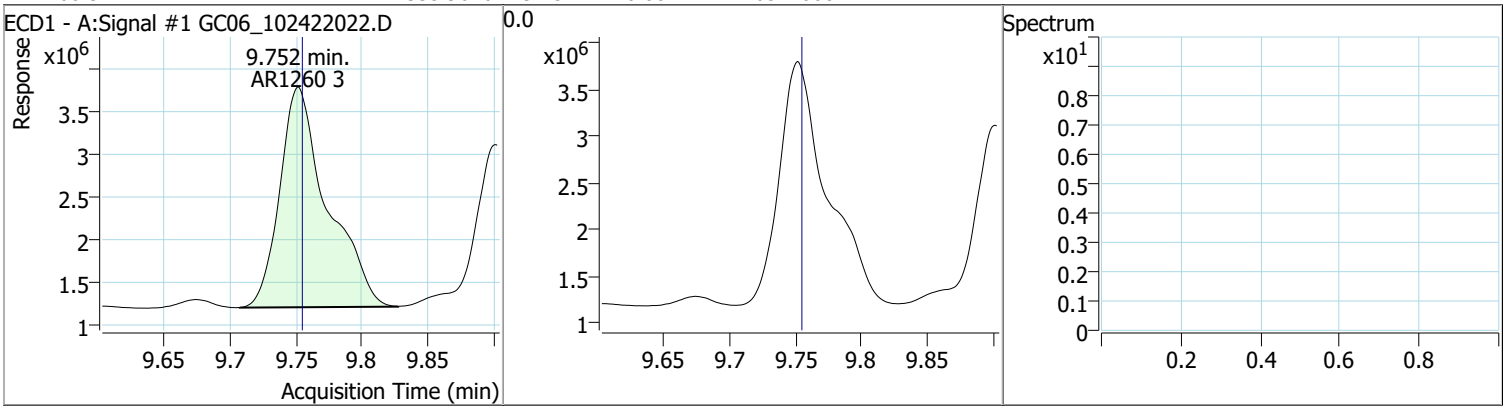
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	1343.2907	8.88	0.00	4117619				



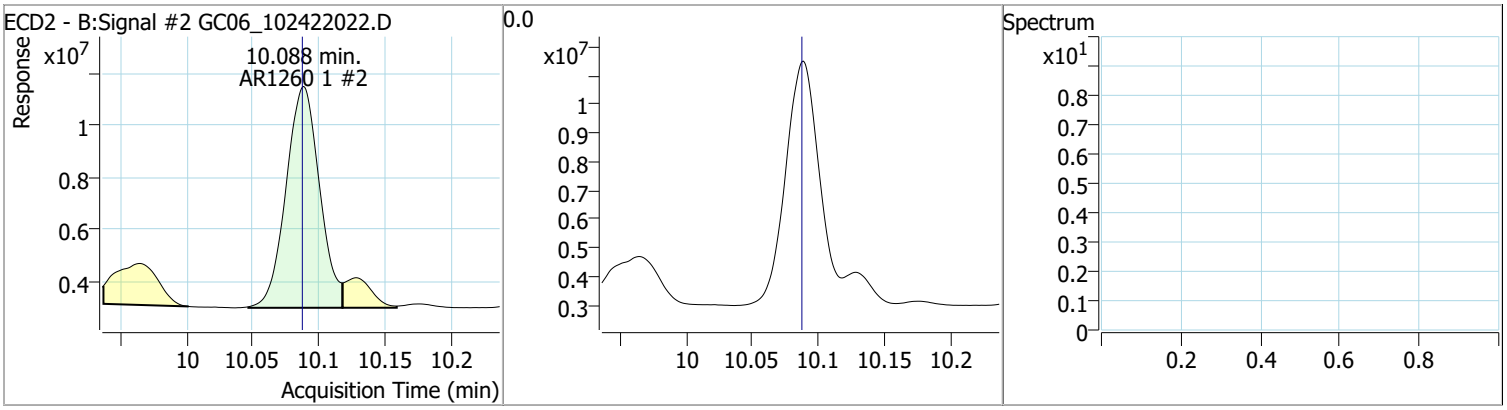
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	1306.9692	9.34	0.00	6106283				



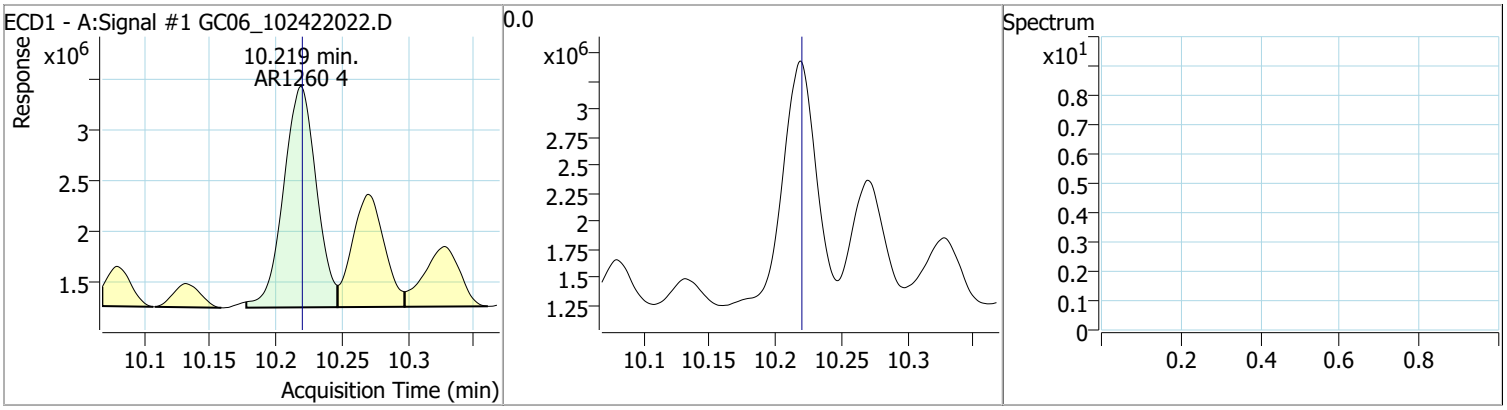
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3	1335.9676	9.75	0.00	6524008				



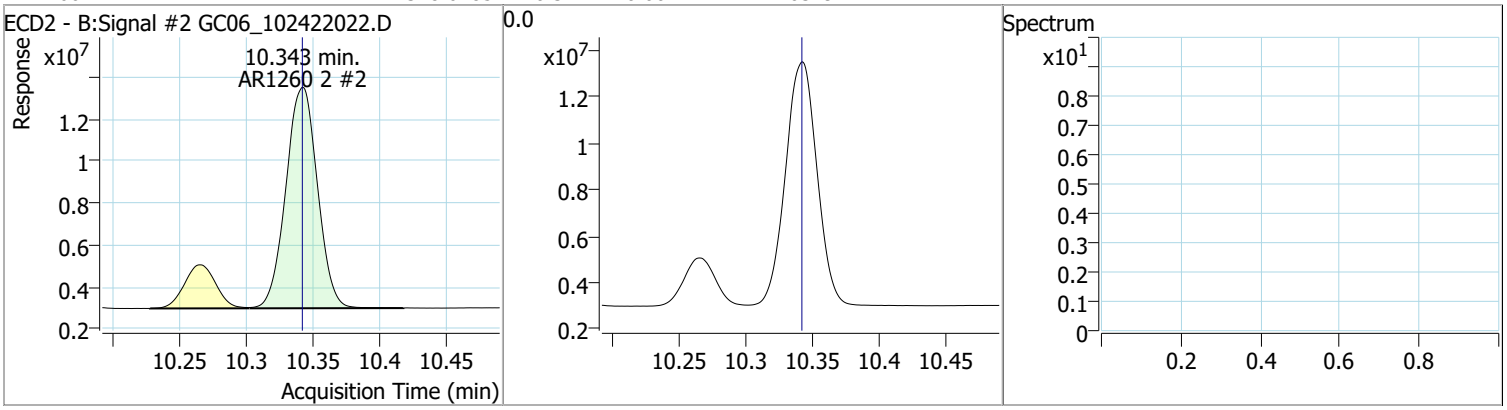
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	1363.7603	10.09	0.00	14980656				



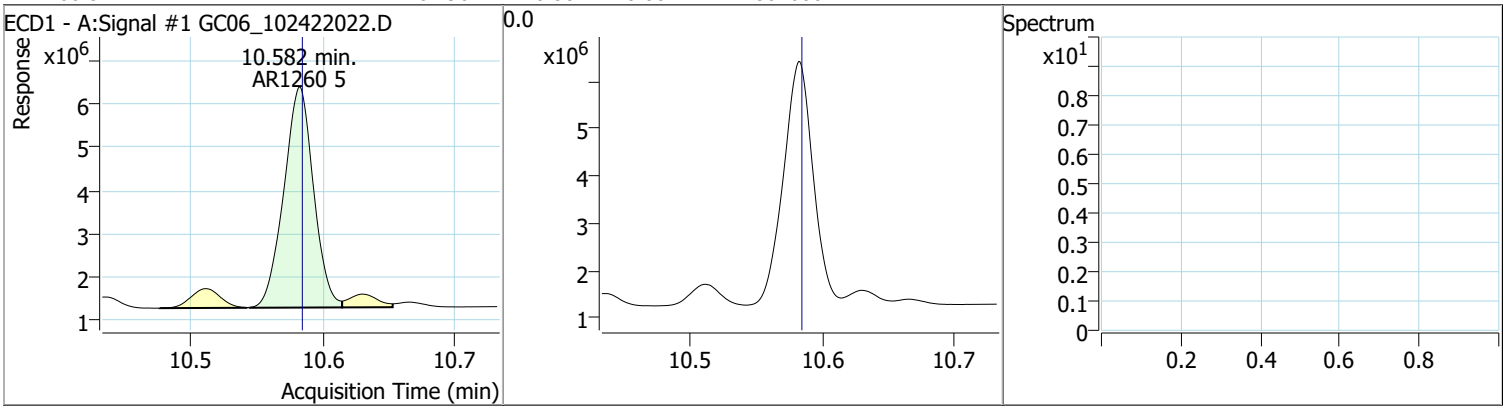
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AR1260 4	1453.5184	10.22	0.00	3788830				



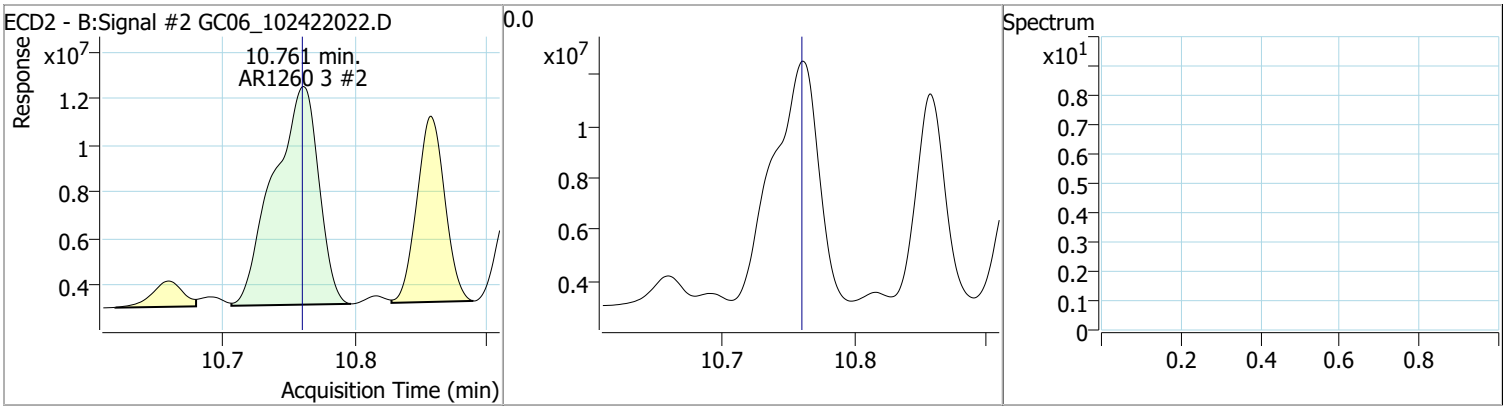
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	1318.6185	10.34	0.00	17403792				



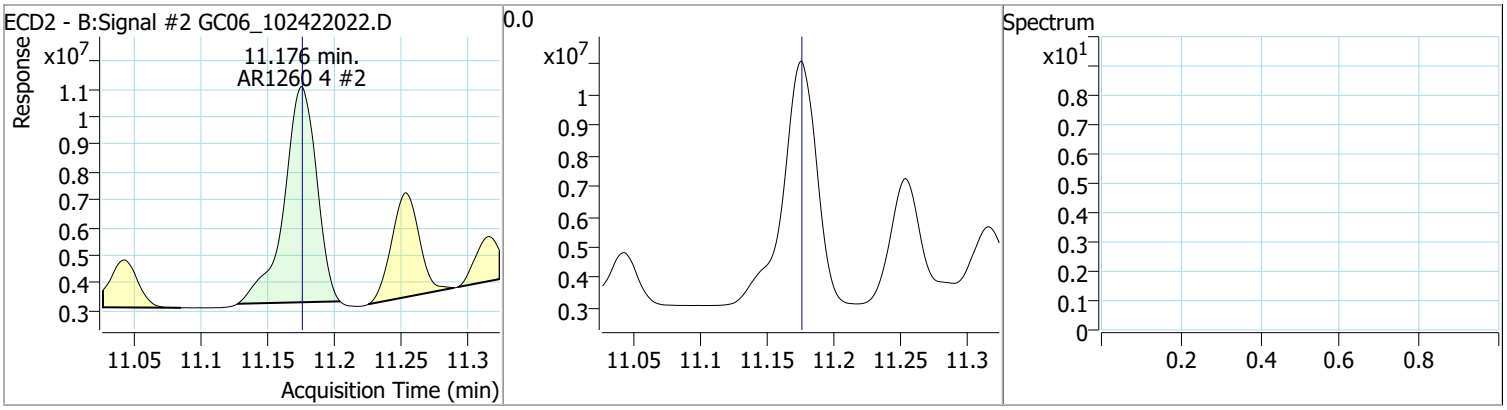
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	1461.9072	10.58	0.00	8046004				



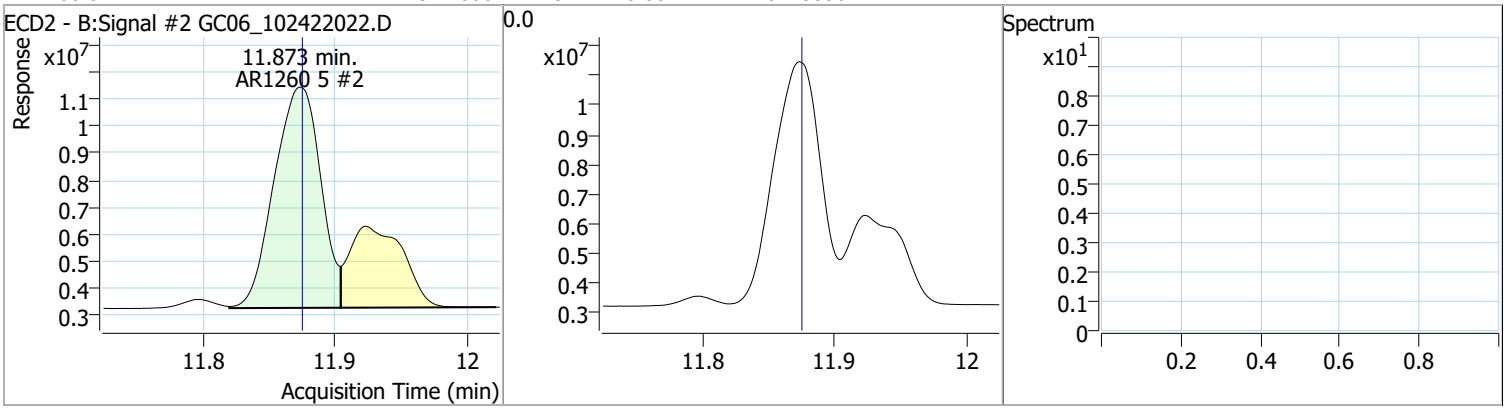
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	1332.3228	10.76	0.00	22258325				



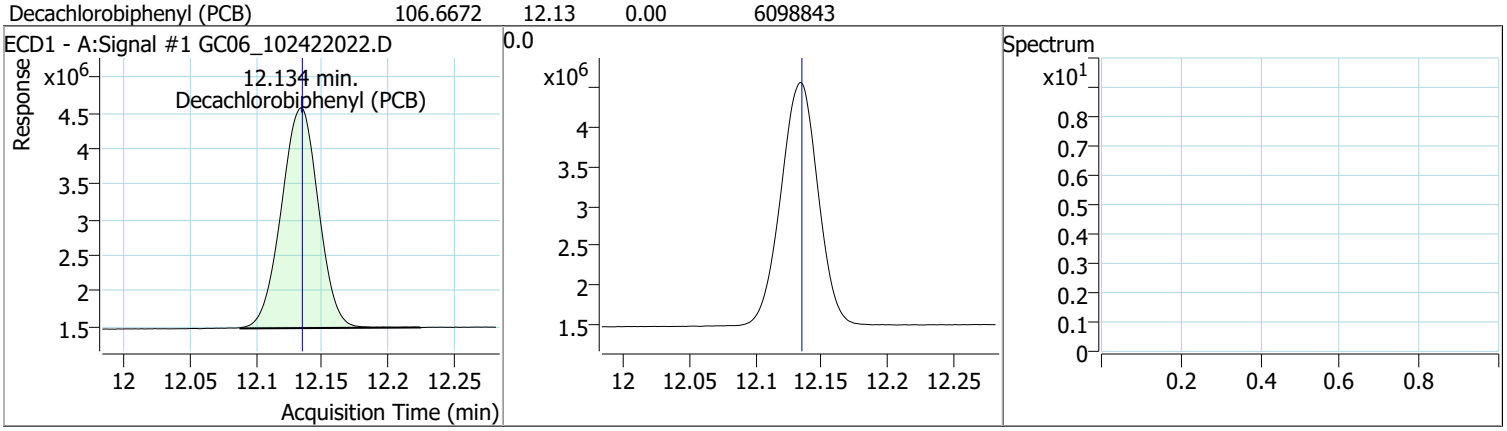
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	1431.4709	11.18	0.00	13342428				



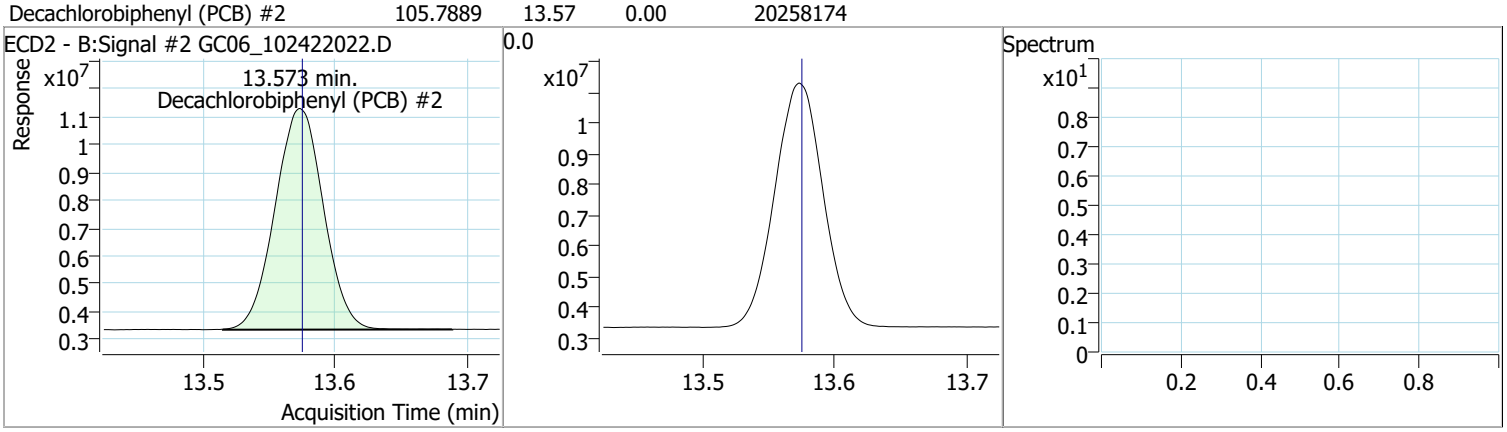
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	1431.1606	11.87	0.00	20128856				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	106.6672	12.13	0.00	6098843				

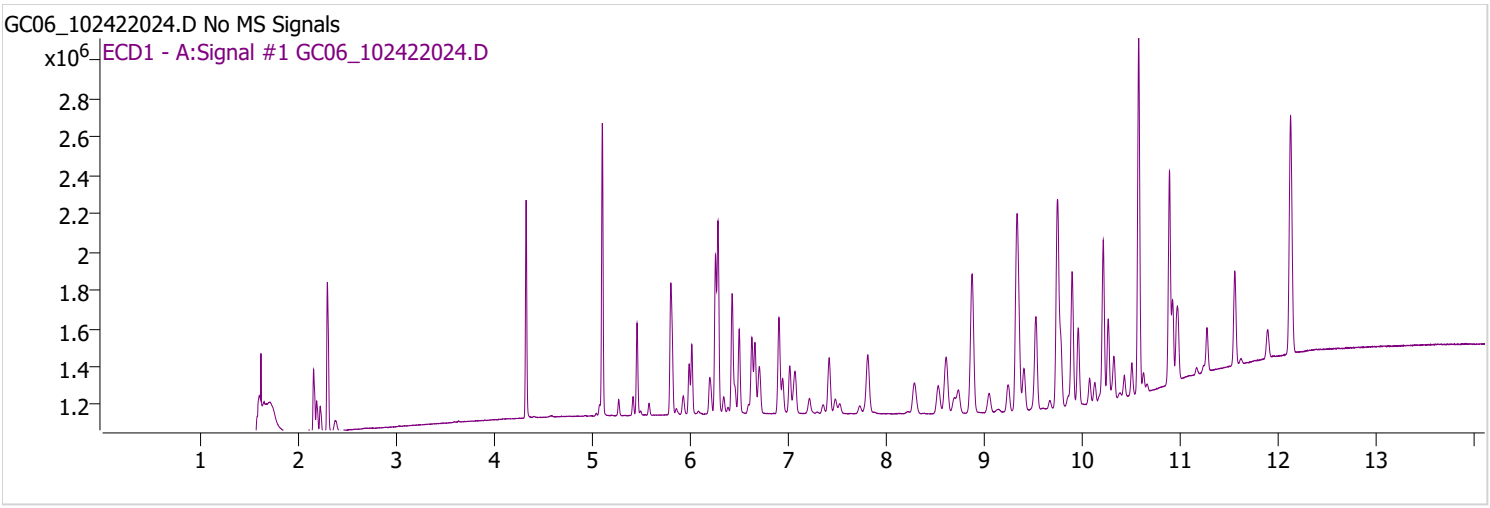


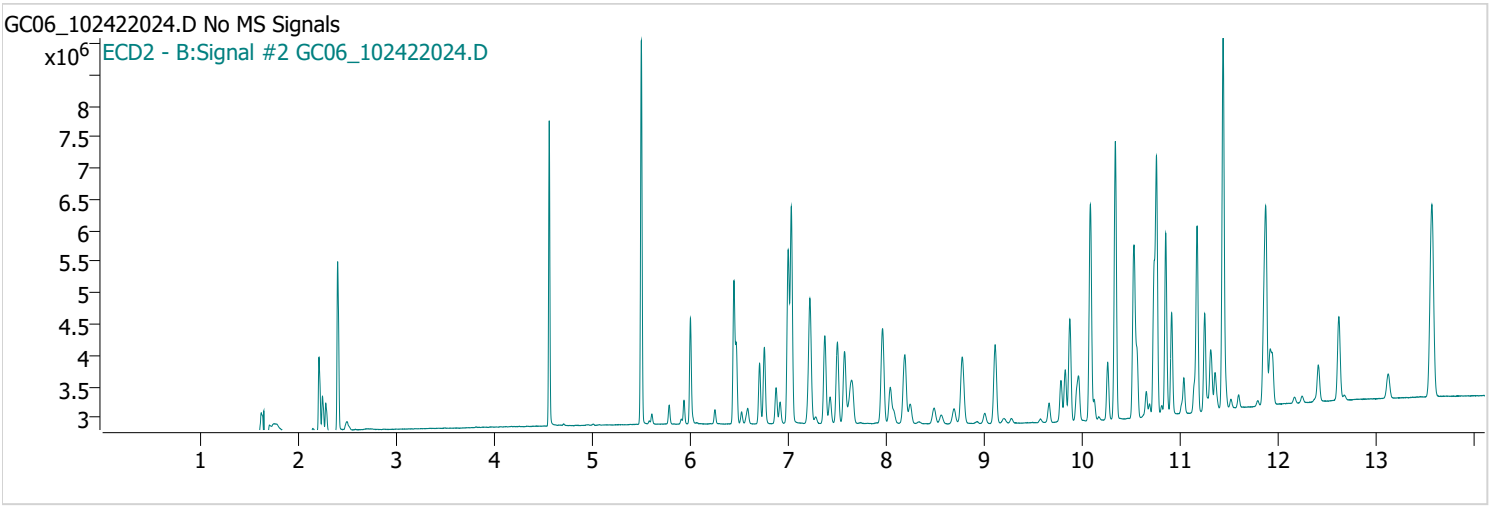
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	105.7889	13.57	0.00	20258174				



Quantitation Results Report (Not Reviewed)

Data File	GC06_102422024.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	10/24/2022 8:25:35 PM
Sample Name	ICV, S17235	Instrument	SVOA-GC06
Vial	20	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_1.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	102422_PCB cal.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



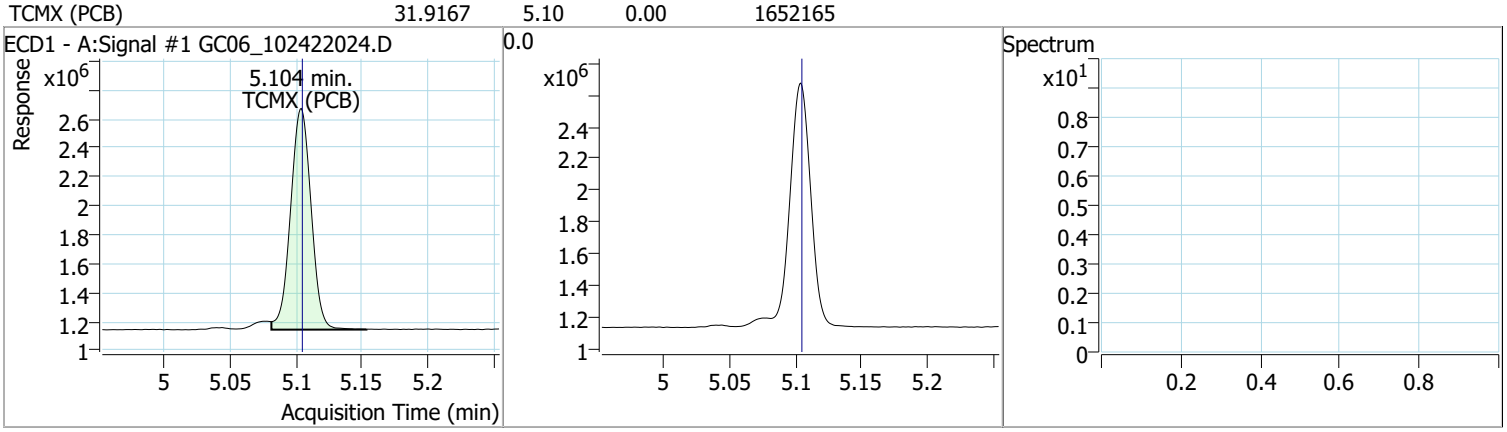


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.326	0.0	1076682.196	20.0000	ng/ml		0.001
M 1-bromo-2-nitrobenzene (PCB) #2	4.562	0.0	4397148.902	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	5.104	0.0	1652164.770	31.9167	ng/ml		0.001
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 159.58%		*	
S TCMX (PCB) #2	5.503	0.0	6722893.316	31.8363	ng/ml		0.003
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 159.18%		*	
S Decachlorobiphenyl (PCB)	12.132	0.0	2466843.073	33.4800	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 167.40%		*	
S Decachlorobiphenyl (PCB) #2	13.575	0.0	8011248.396	33.7063	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 168.53%		*	
Target Compounds							QValue

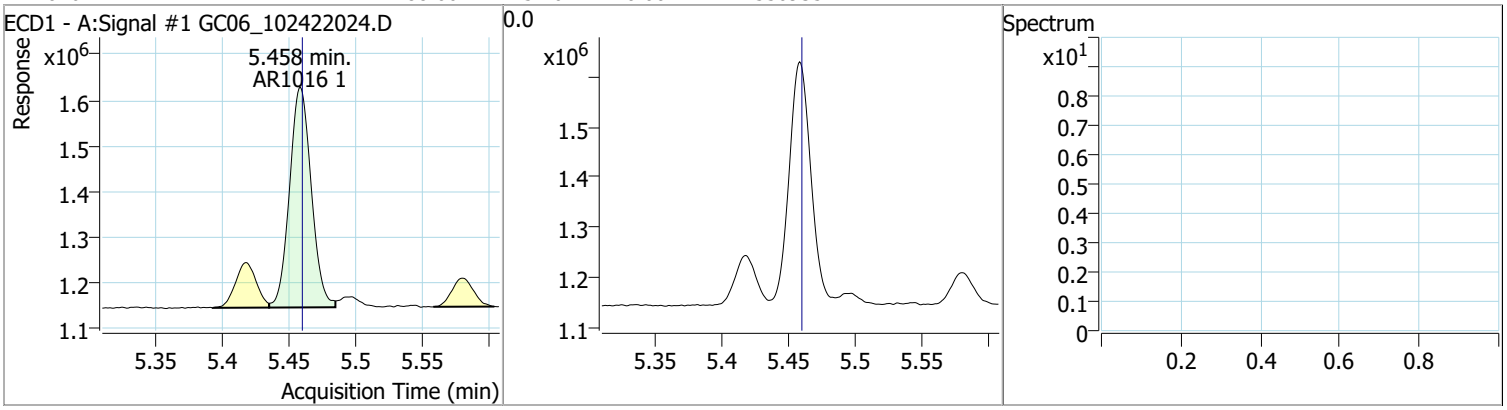
Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
T AR1016 1	5.458	0.0	550935.426	488.0614	ng/ml		100
T AR1016 2	5.803	0.0	1189862.282	514.7354	ng/ml		100
T AR1016 1 #2	6.003	0.0	2242477.144	490.6896	ng/ml		100
T AR1016 3	6.285	0.0	1389465.420	485.4831	ng/ml		100
T AR1016 4	6.430	0.0	1046664.270	480.8388	ng/ml		100
T AR1016 2 #2	6.448	0.0	3255640.126	493.4972	ng/ml	m	100
T AR1016 5	6.908	0.0	816413.877	465.6509	ng/ml		100
T AR1016 3 #2	7.033	0.0	5620148.290	468.8558	ng/ml		100
T AR1016 4 #2	7.223	0.0	4113157.293	480.6445	ng/ml		100
T AR1016 5 #2	7.966	0.0	3287720.462	472.6461	ng/ml		100
T AR1260 1	8.880	0.0	1666464.315	457.7841	ng/ml		100
T AR1260 2	9.340	0.0	2597140.258	468.0849	ng/ml		100
T AR1260 3	9.752	0.0	2770140.676	477.6656	ng/ml		100
T AR1260 1 #2	10.088	0.0	6115733.850	467.3543	ng/ml		100
T AR1260 4	10.219	0.0	1373500.840	432.9684	ng/ml		100
T AR1260 2 #2	10.343	0.0	7171316.093	456.1048	ng/ml		100
T AR1260 5	10.581	0.0	2835639.223	421.1135	ng/ml		100
T AR1260 3 #2	10.763	0.0	9458173.779	475.2419	ng/ml		100
T AR1260 4 #2	11.178	0.0	5106288.877	443.8244	ng/ml		100
T AR1260 5 #2	11.878	0.0	7482914.204	433.7764	ng/ml		100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

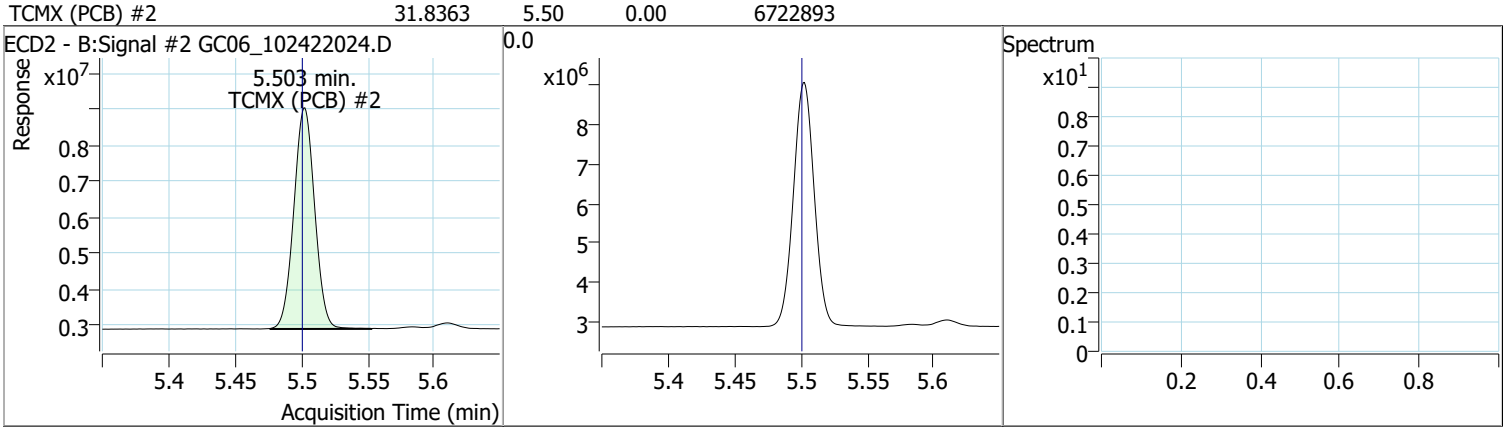
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	31.9167	5.10	0.00	1652165				



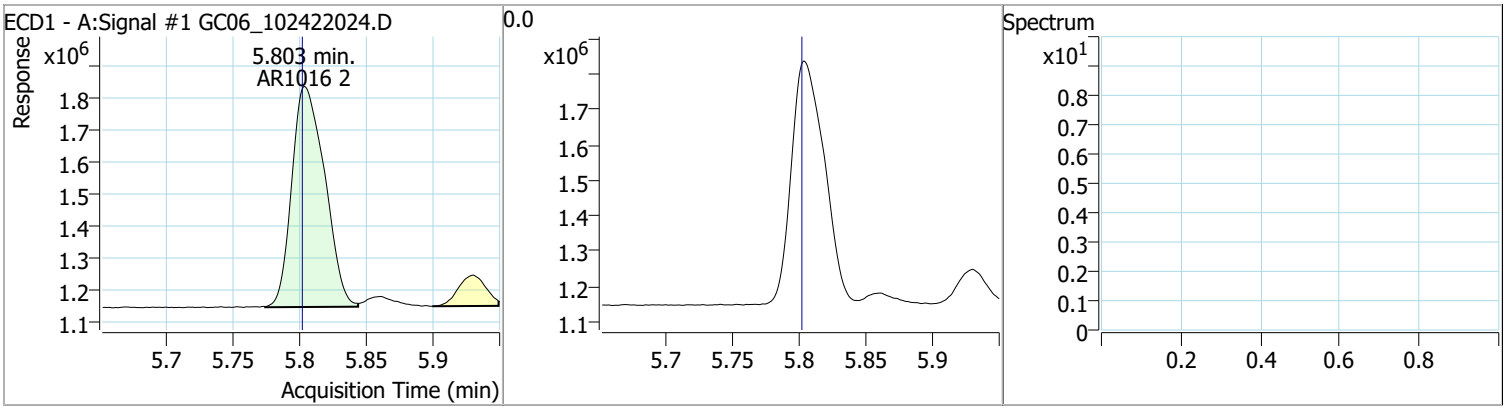
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	488.0614	5.46	0.00	550935				



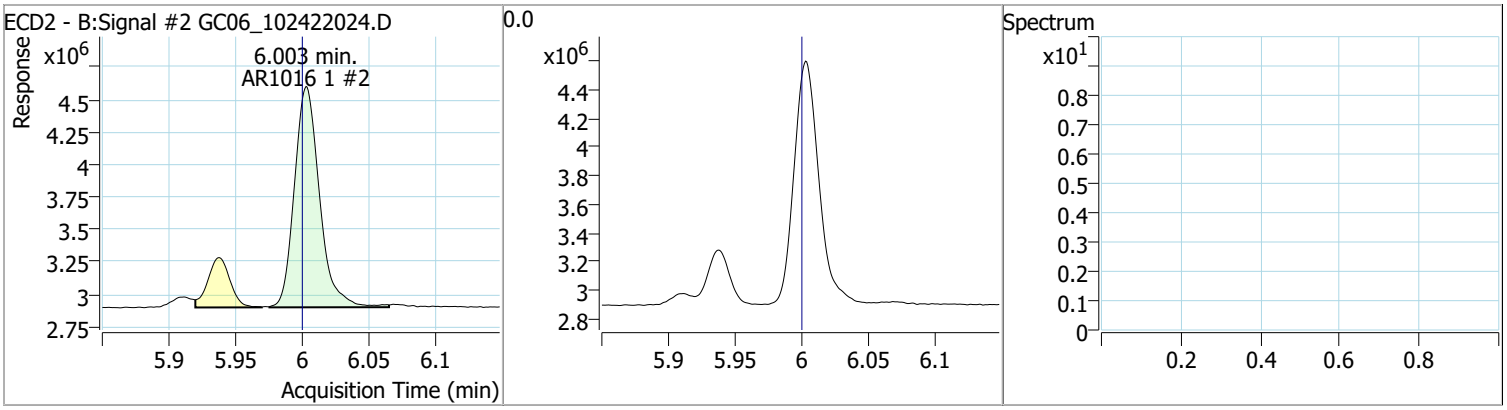
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	31.8363	5.50	0.00	6722893				



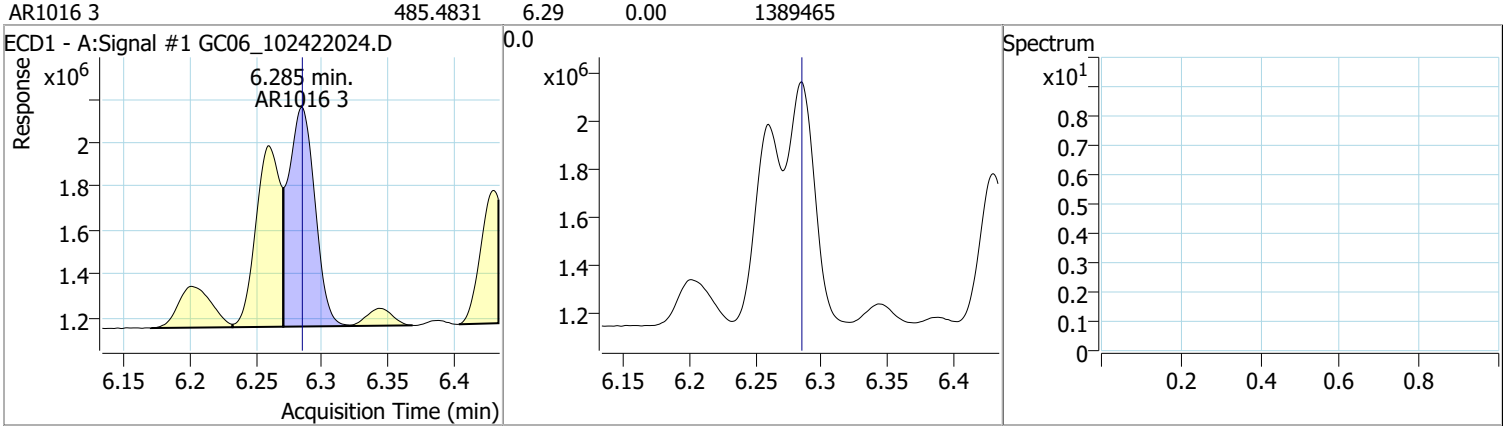
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	514.7354	5.80	0.00	1189862				



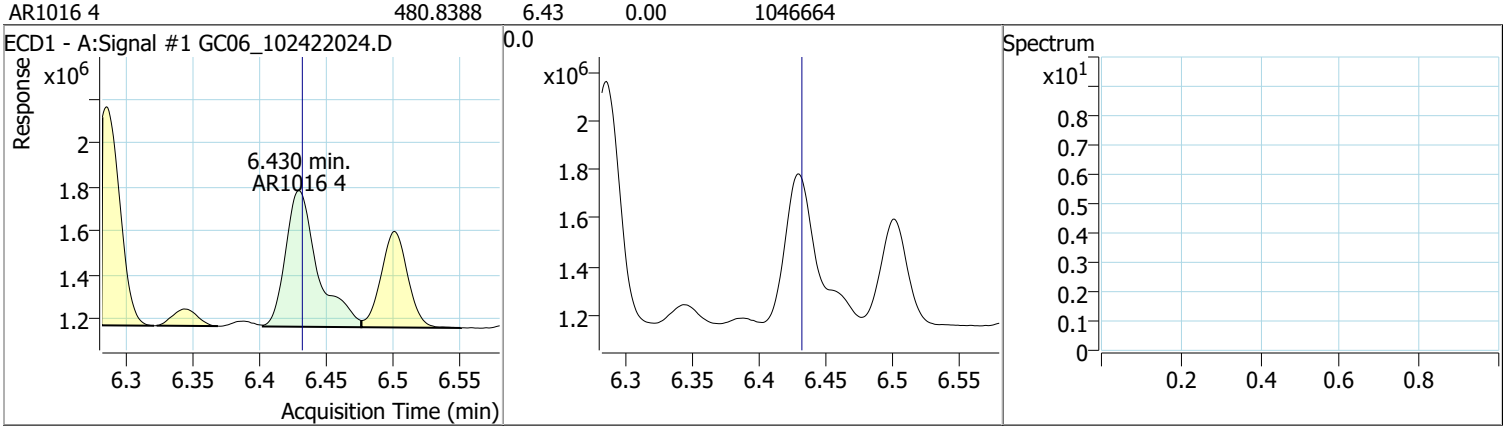
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	490.6896	6.00	0.00	2242477				



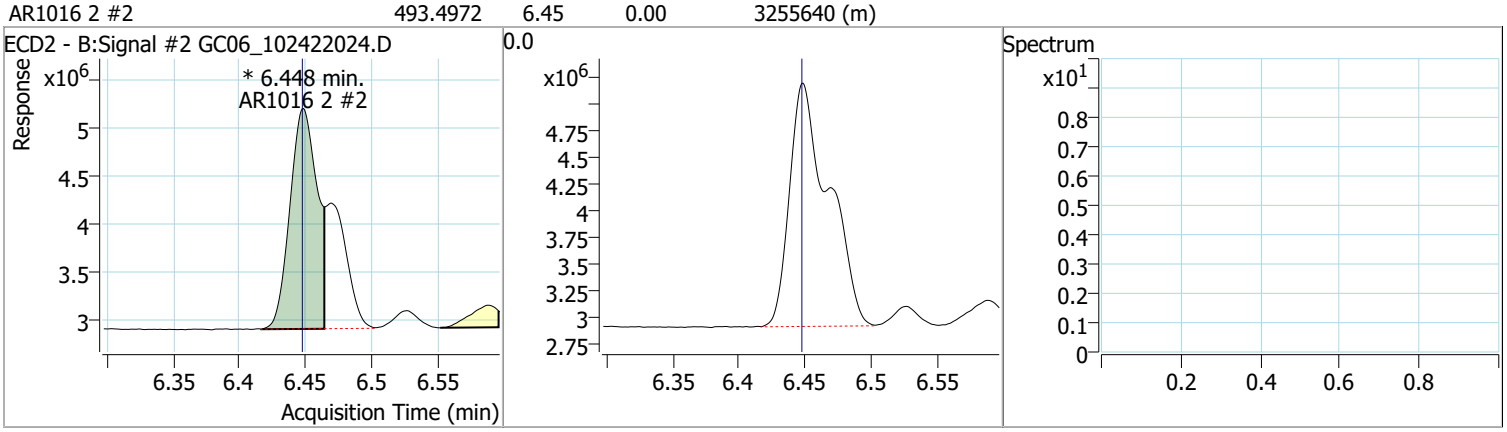
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	485.4831	6.29	0.00	1389465				



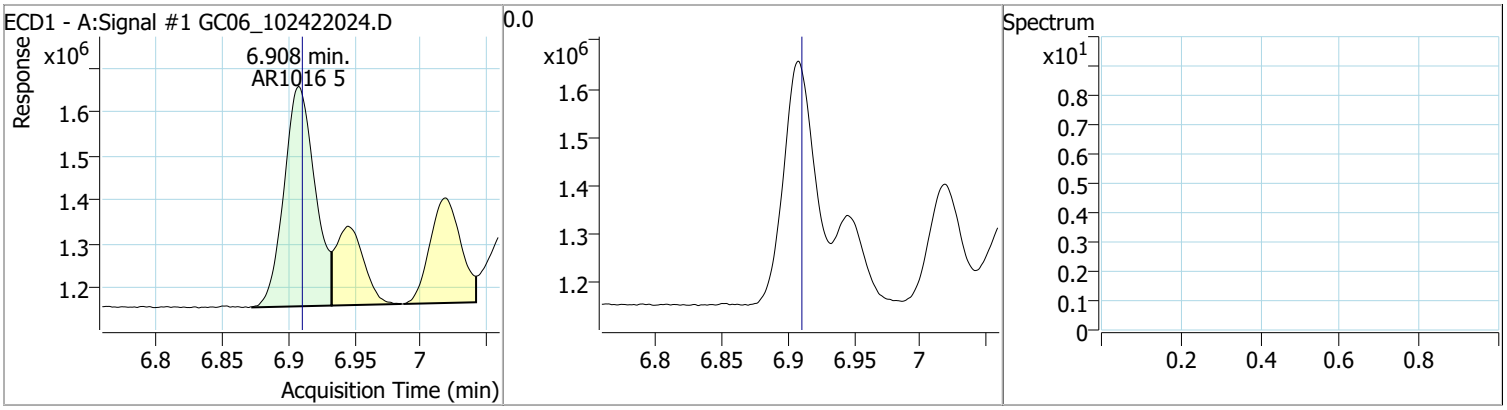
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	480.8388	6.43	0.00	1046664				



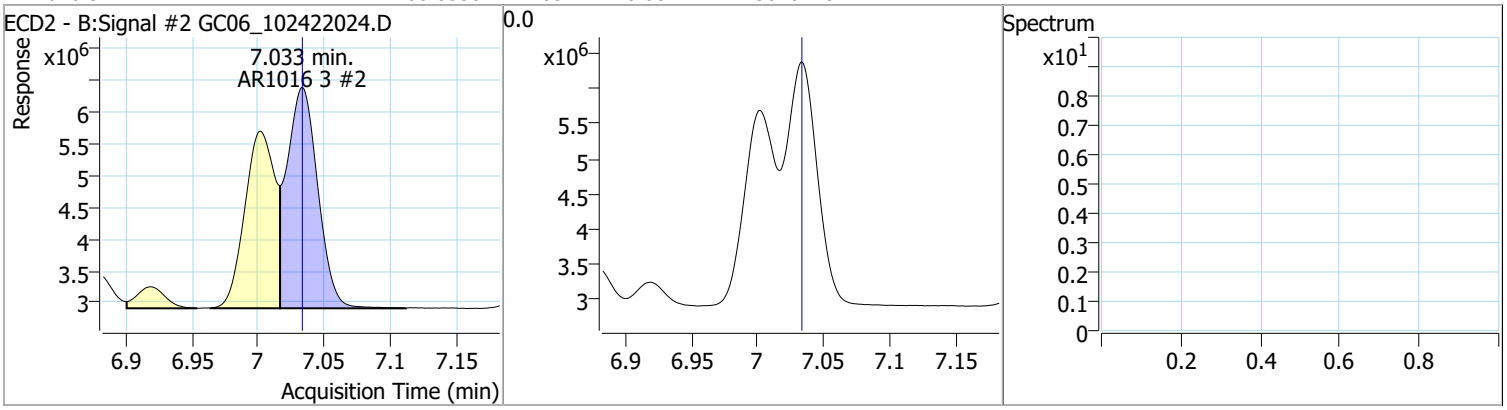
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	493.4972	6.45	0.00	3255640 (m)				



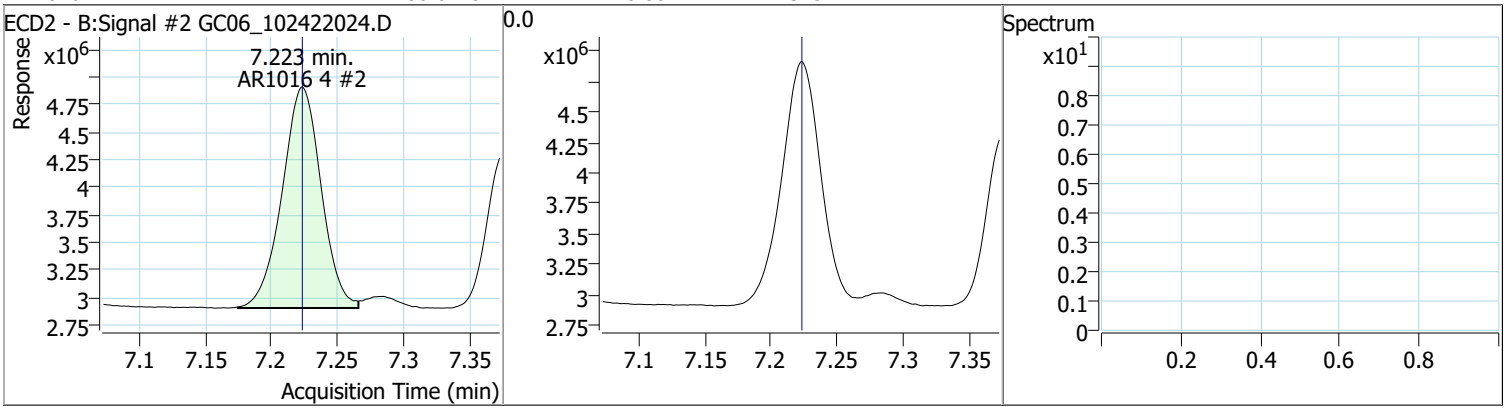
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	465.6509	6.91	0.00	816414				



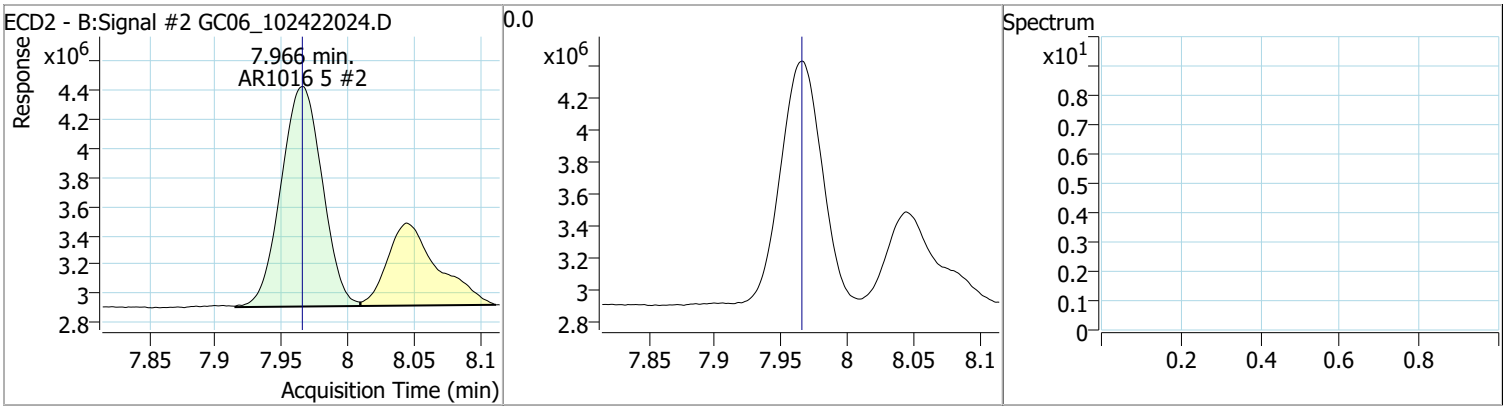
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	468.8558	7.03	0.00	5620148				



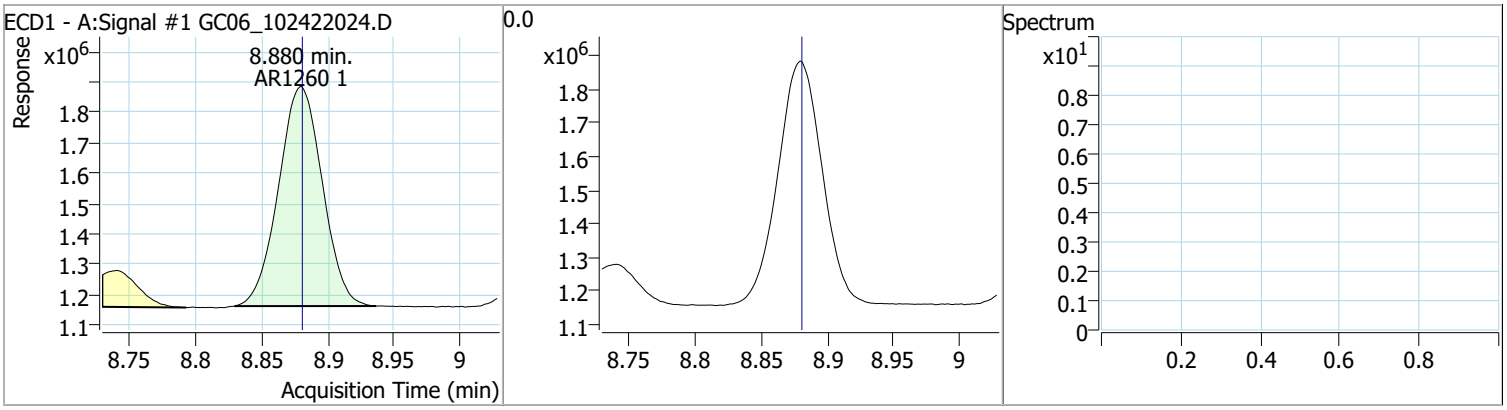
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AR1016 4 #2	480.6445	7.22	0.00	4113157				



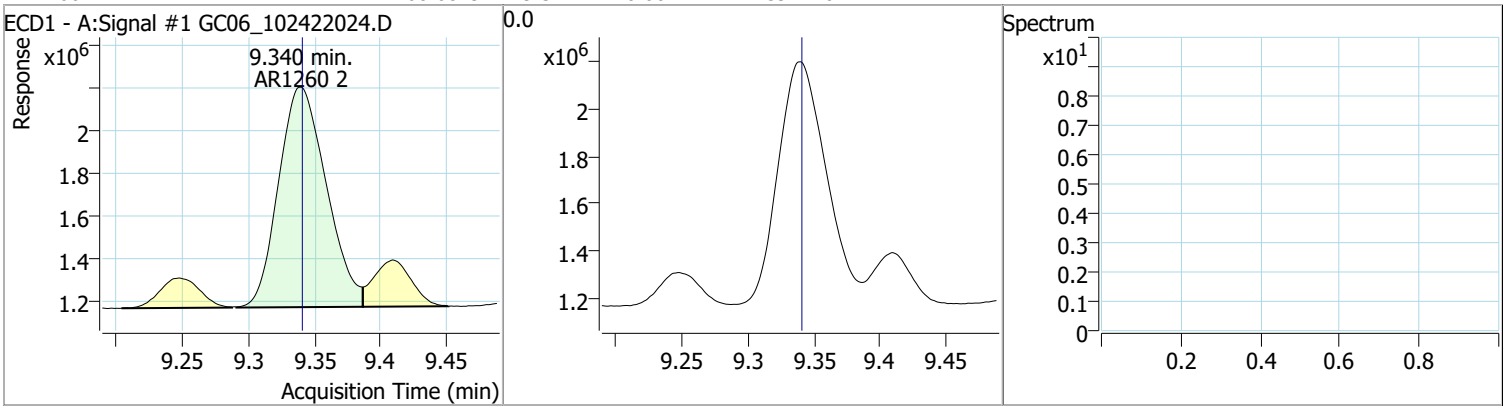
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	472.6461	7.97	0.00	3287720				



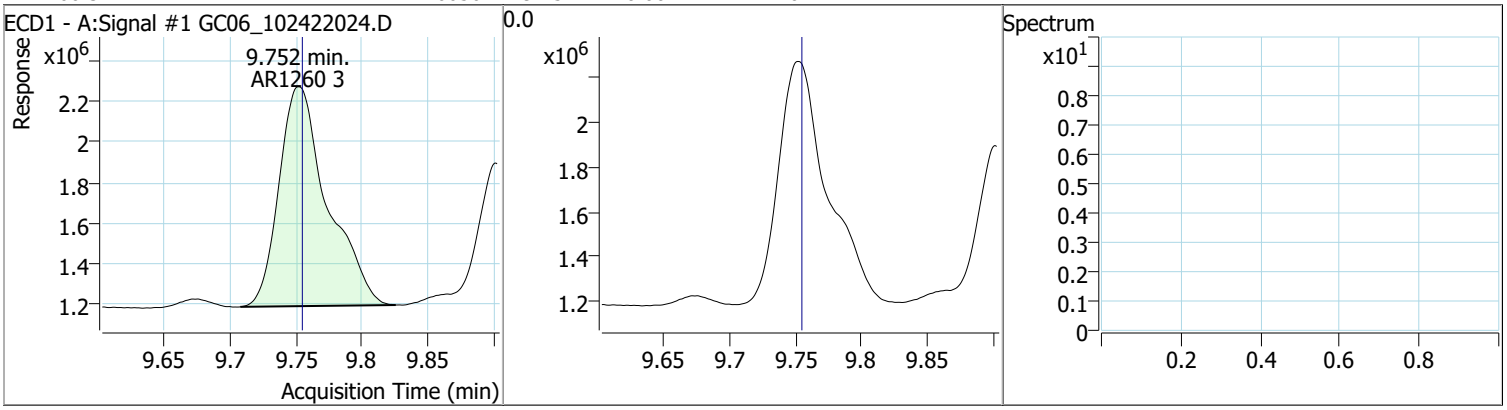
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	457.7841	8.88	0.00	1666464				



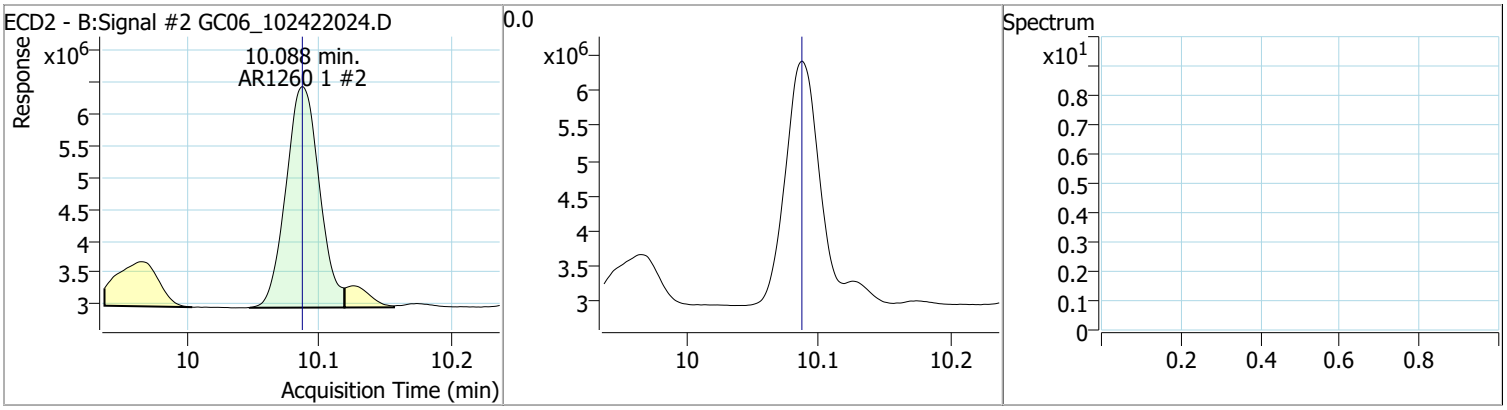
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AR1260 2	468.0849	9.34	0.00	2597140				



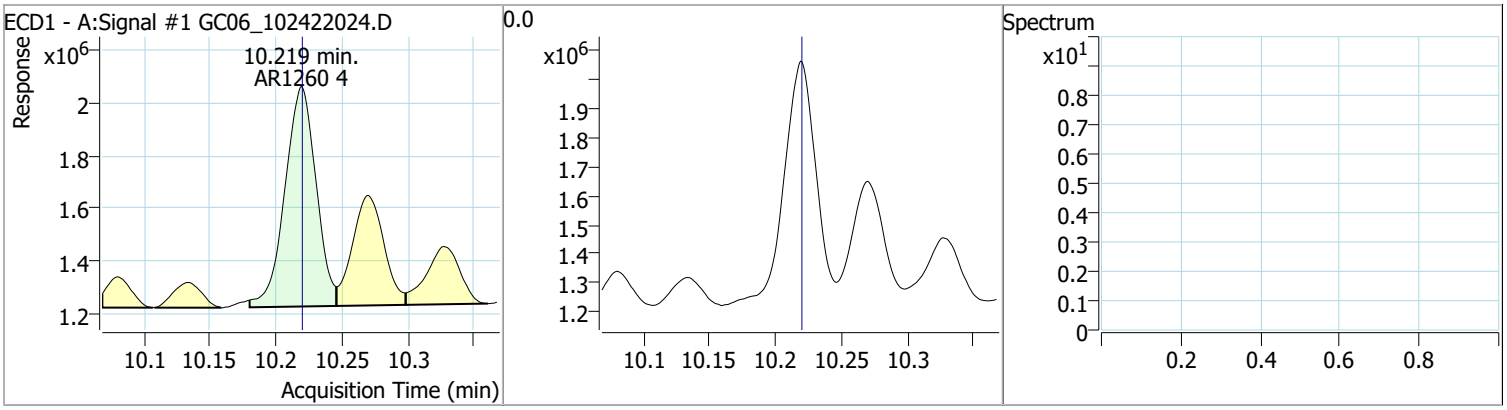
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AR1260 3	477.6656	9.75	0.00	2770141				



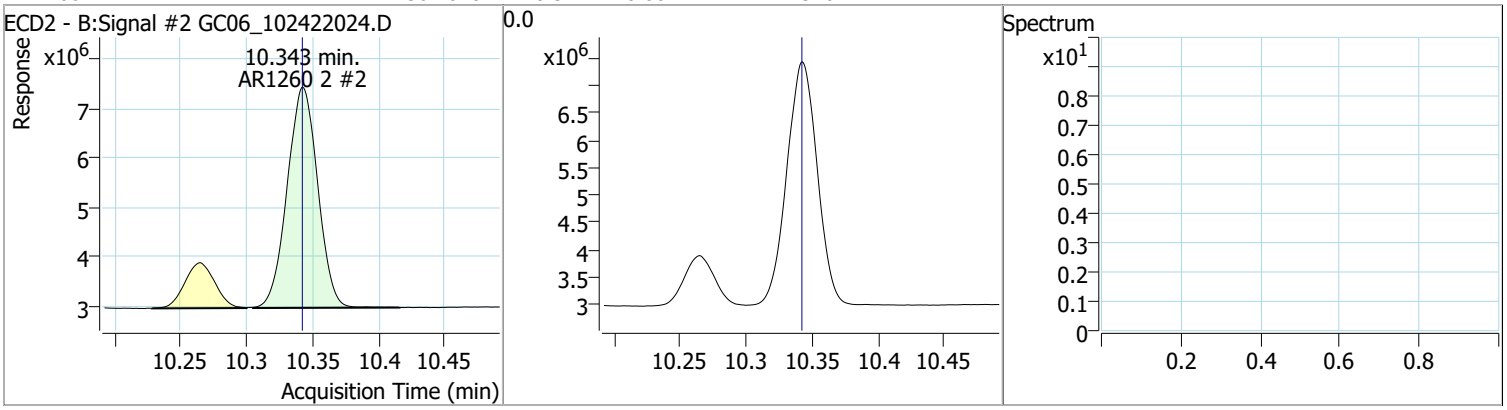
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1 #2	467.3543	10.09	0.00	6115734				



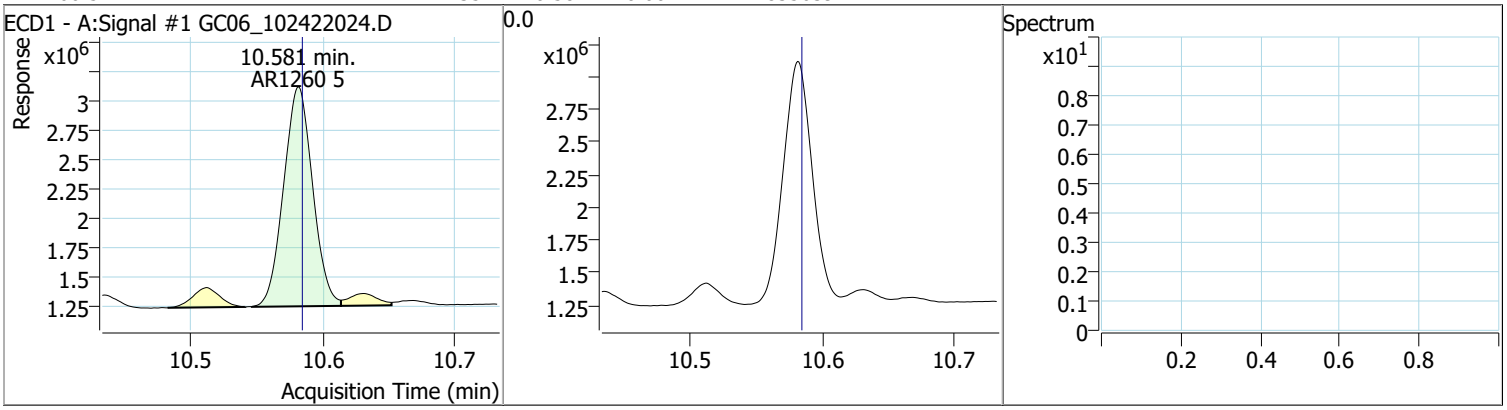
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	432.9684	10.22	0.00	1373501				



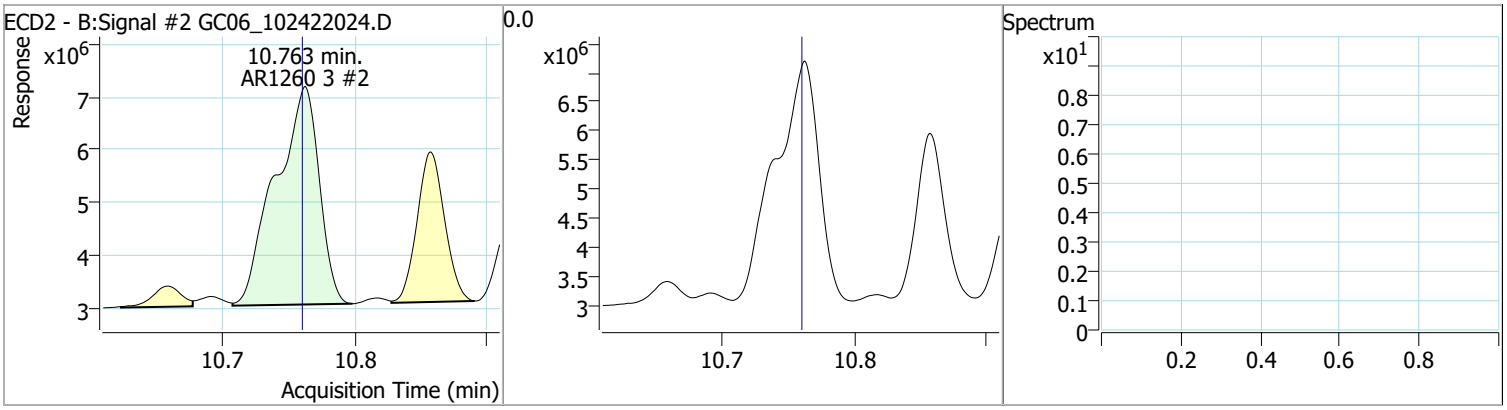
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	456.1048	10.34	0.00	7171316				



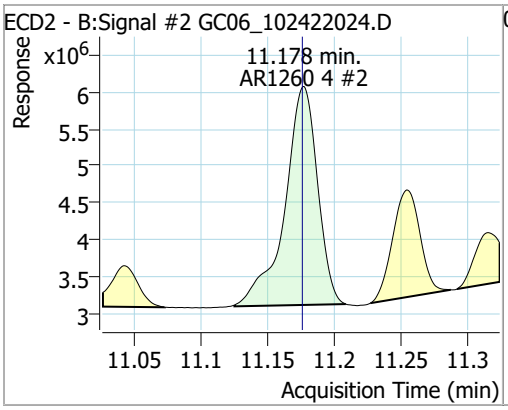
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	421.1135	10.58	0.00	2835639				

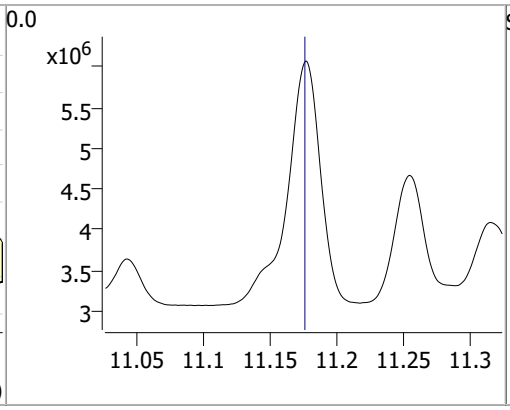


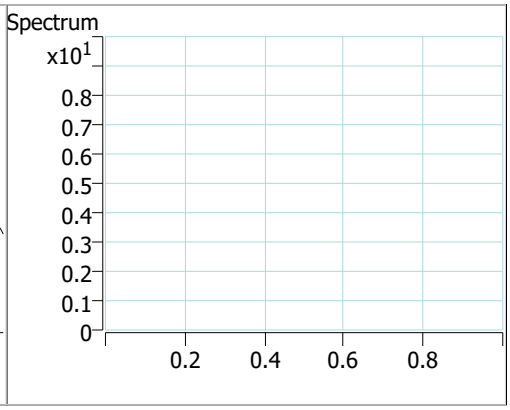
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	475.2419	10.76	0.00	9458174				



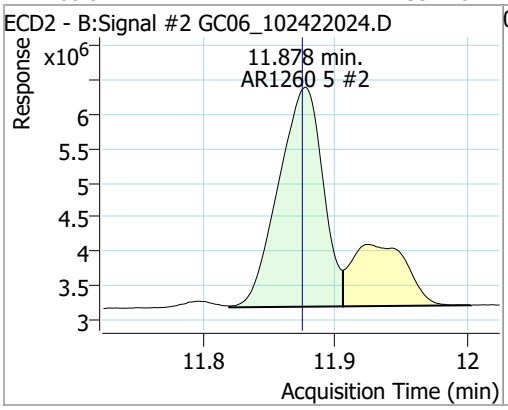
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	443.8244	11.18	0.00	5106289				

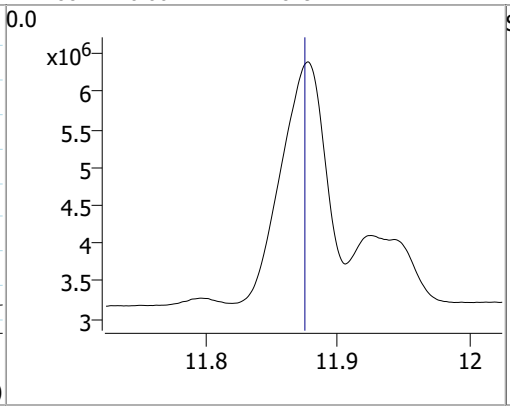


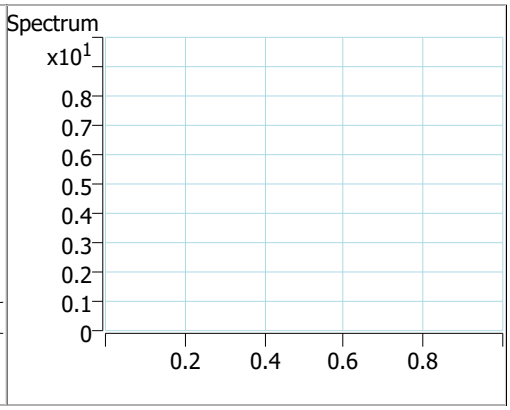




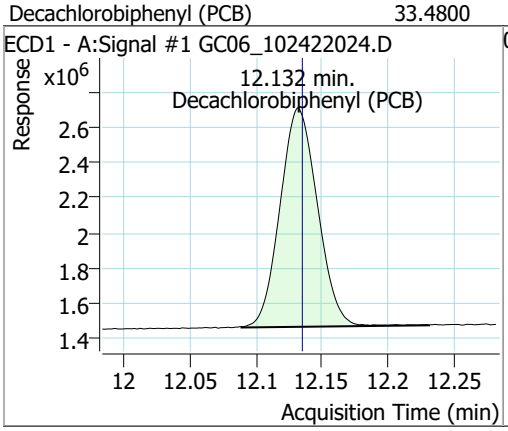
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	433.7764	11.88	0.00	7482914				

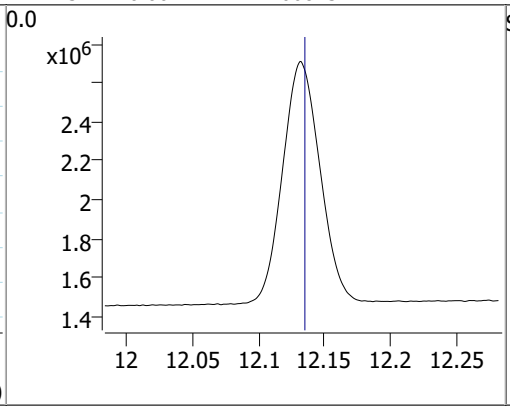


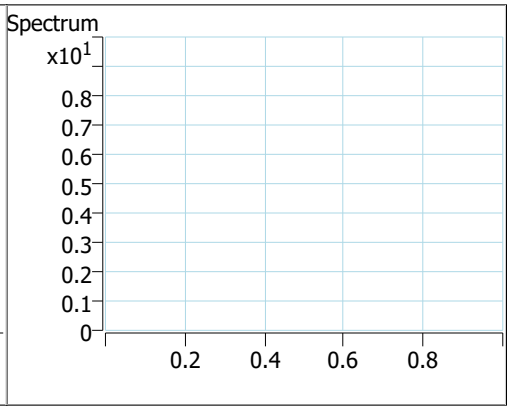




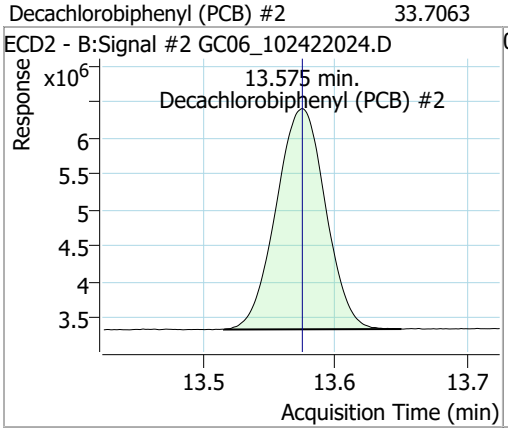
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	33.4800	12.13	0.00	2466843				

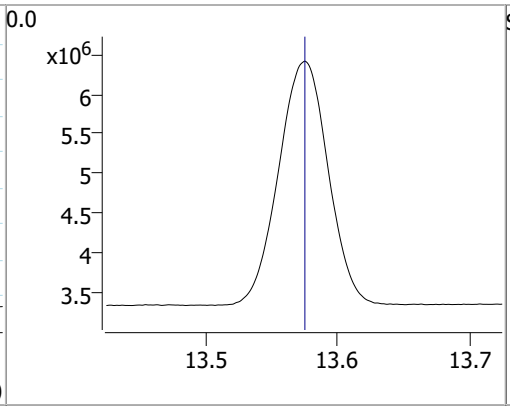


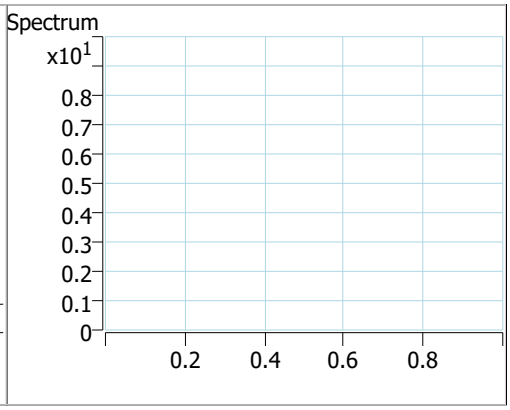




Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	33.7063	13.58	0.00	8011248				







Continuing Calibration Verification Raw Data

ENTHALPY CONTINUING CALIBRATION FOR 475743 PCBS Wipe

EPA 8082

Inst:	SVOA-GC06			IDF:	1.0
Seqnum:	452520427004.1	File:	gc06_122722004	Time:	27-DEC-2022 10:24
Cal:	452428510002	Caldate:	24-OCT-2022		

Standards: S17386

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Min RF	Flags
Aroclor-1016	A			500.0	518.0	ug/L	4	15	0.0000	
Aroclor-1260	A			500.0	517.4	ug/L	3	15	0.0000	
Decachlorobiphenyl (PCB)	A	1.4080	2.0389	40.00	62.96	ug/L	**57**	15	0.0000	c+
TCMX (PCB)	A	0.9616	0.9766	40.00	40.63	ug/L	2	15	0.0000	
Aroclor-1016	B			500.0	554.6	ug/L	11	15	0.0000	
Aroclor-1260	B			500.0	500.4	ug/L	0	15	0.0000	
Decachlorobiphenyl (PCB)	B	1.2084	1.6043	40.00	60.97	ug/L	**52**	15	0.0000	c+
TCMX (PCB)	B	0.9605	0.9607	40.00	40.01	ug/L	0	15	0.0000	

ISTD (ICAL gc06_102422015)	Ch	ICAL Abund	Abund	%Drift
1-bromo-2-nitrobenzene (PCB)	B	4414084	6120897	38.67
1-bromo-2-nitrobenzene (PCB)	A	1096423	1313242	19.78

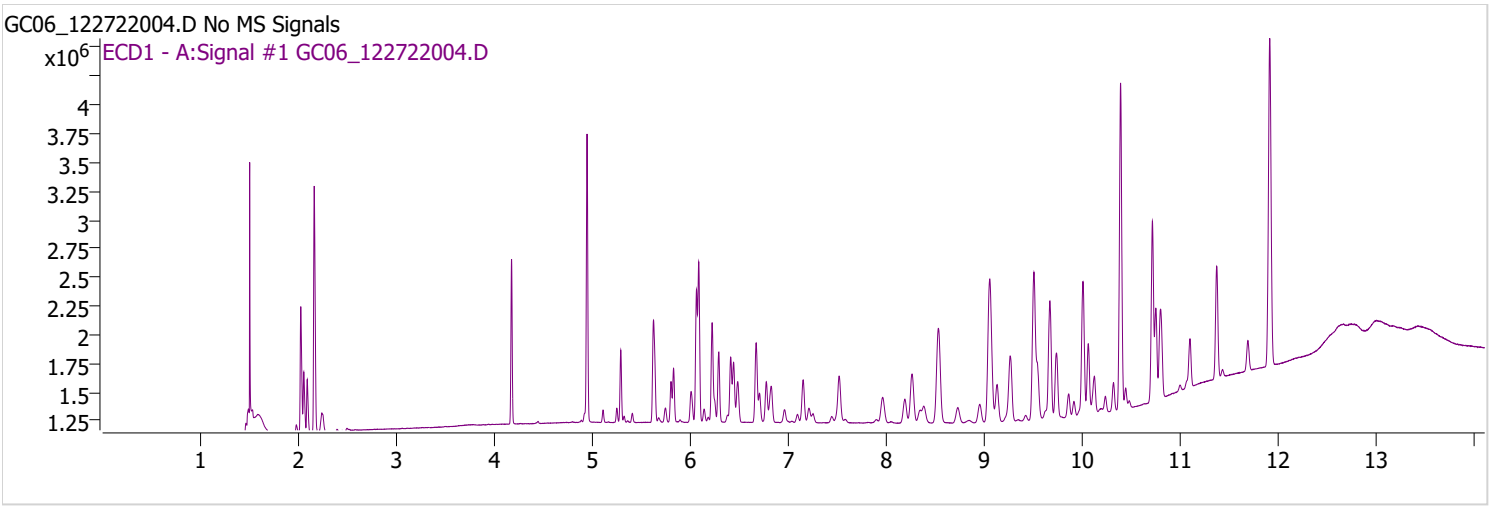
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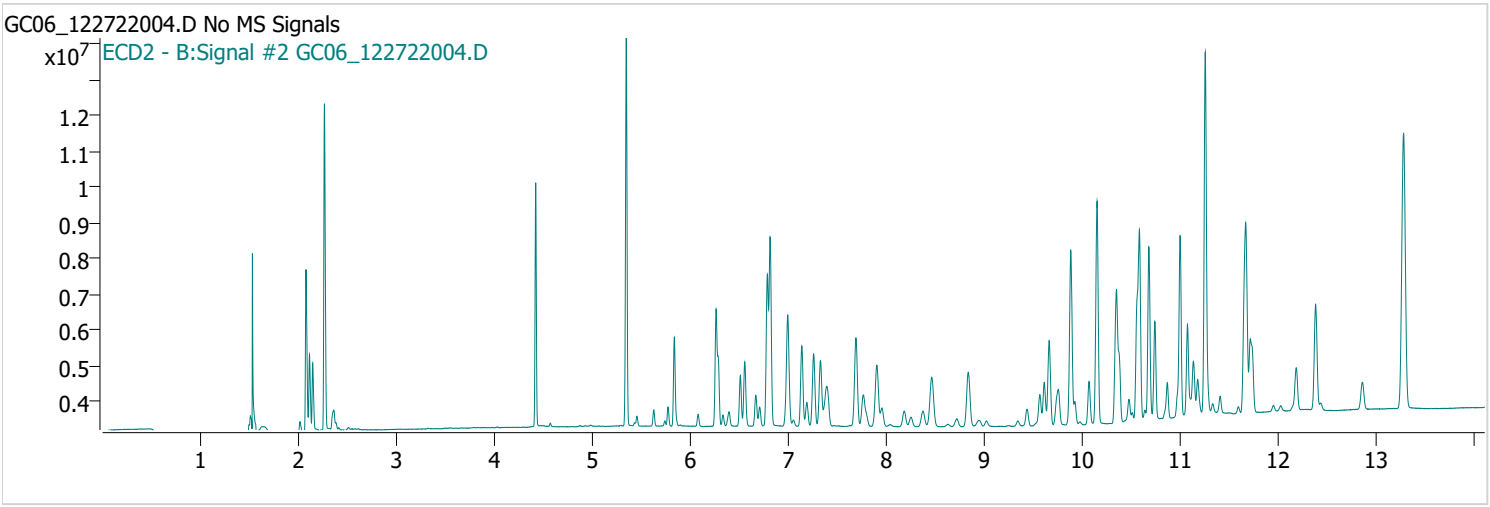
Analyst: MES 12/28/22 *

Reviewer: LW 12/30/22

Quantitation Results Report (Not Reviewed)

Data File	GC06_122722004.D	Operator	MTS
Acq. Method	Acq_Pesticide_122221_2	Acq. Date-Time	12/27/2022 10:24:19 AM
Sample Name	CCV, S17386	Instrument	SVOA-GC06
Vial	144	Multiplier	1.00
DA Method File	PCB_608_102422_GC06_14a.m	Comment	
Tune File	ATUNE.U	Tune Date	
Batch Name	122722PCB.batch.bin	Last Calib Update	10/26/2022 9:58:00 AM
Ref Library			



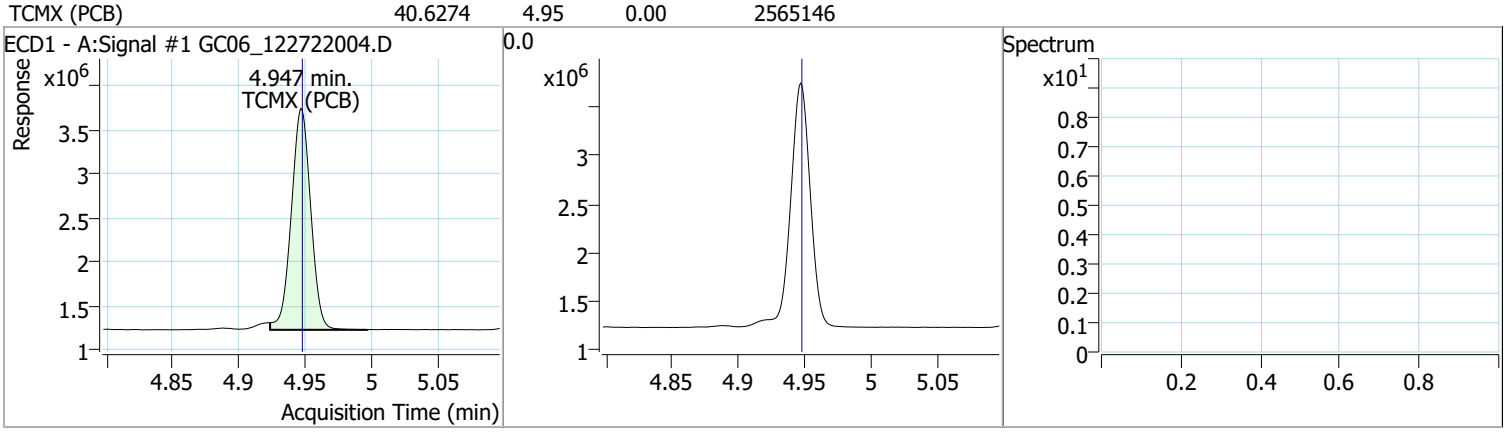


Compound	RT	QIon	Resp.	Conc.	Units		Dev(Min)
Internal Standards							
M 1-bromo-2-nitrobenzene (PCB)	4.176	0.0	1313241.716	20.0000	ng/ml		0.000
M 1-bromo-2-nitrobenzene (PCB) #2	4.423	0.0	6120897.146	20.0000	ng/ml		0.000
System Monitoring Compounds							
S TCMX (PCB)	4.947	0.0	2565145.725	40.6274	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 203.14%		*	
S TCMX (PCB) #2	5.347	0.0	11760855.883	40.0093	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 200.05%		*	
S Decachlorobiphenyl (PCB)	11.916	0.0	5355229.060	62.9594	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 314.80%		*	
S Decachlorobiphenyl (PCB) #2	13.283	0.0	19638926.993	60.9671	ng/ml		0.000
Spiked Amount: 20.000	Range: 50.0 - 150.0%			Recovery = 304.84%		*	
Target Compounds							QValue

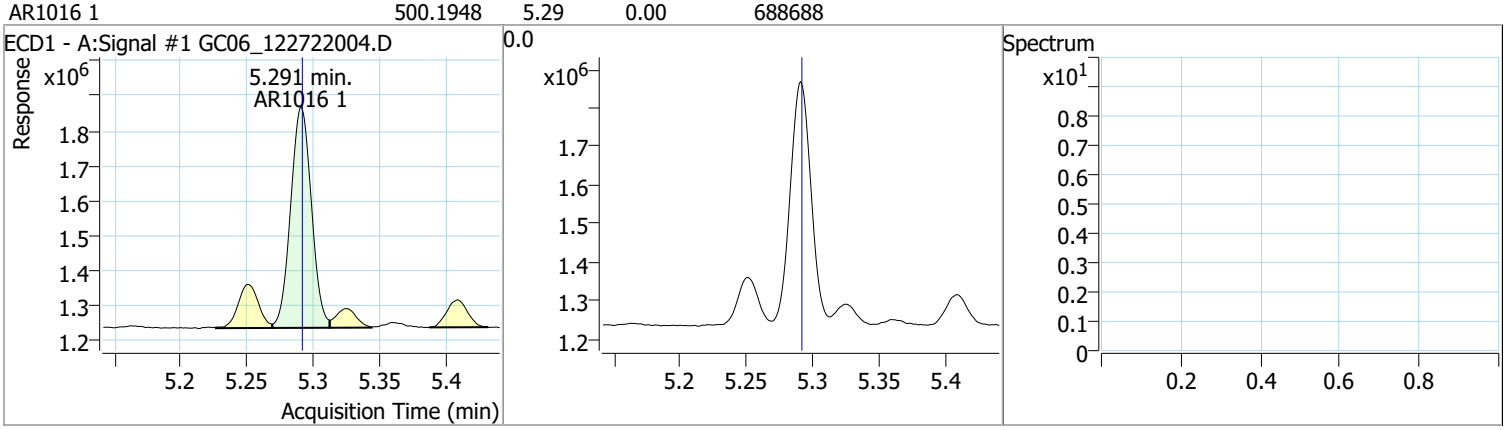
Compound	RT	QIon	Resp.	Conc.	Units	Dev(Min)
T AR1016 1	5.291	0.0	688687.965	500.1948	ng/ml	100
T AR1016 2	5.625	0.0	1495822.999	531.0028	ng/ml	100
T AR1016 1 #2	5.838	0.0	3177731.029	499.5191	ng/ml	100
T AR1016 3	6.087	0.0	1792601.888	513.5149	ng/ml	100
T AR1016 4	6.224	0.0	1393840.563	524.9864	ng/ml	100
T AR1016 2 #2	6.264	0.0	6768864.169	737.0895	ng/ml	100
T AR1016 5	6.673	0.0	1112760.657	520.3490	ng/ml	100
T AR1016 3 #2	6.815	0.0	8348042.302	500.3020	ng/ml	100
T AR1016 4 #2	6.996	0.0	6086844.109	510.9718	ng/ml	100
T AR1016 5 #2	7.692	0.0	5082603.958	524.9084	ng/ml	100
T AR1260 1	8.533	0.0	2236181.262	503.6334	ng/ml	100
T AR1260 2	9.058	0.0	3366939.058	497.5163	ng/ml	100
T AR1260 3	9.509	0.0	3100949.866	438.3891	ng/ml	100
T AR1260 1 #2	9.885	0.0	9004129.748	494.3056	ng/ml	100
T AR1260 4	10.010	0.0	2185528.896	569.5444	ng/ml	100
T AR1260 2 #2	10.153	0.0	10667639.159	487.4052	ng/ml	100
T AR1260 5	10.393	0.0	4693843.306	577.9683	ng/ml	100
T AR1260 3 #2	10.586	0.0	13103723.007	472.9969	ng/ml	100
T AR1260 4 #2	11.001	0.0	8167124.123	513.4784	ng/ml	100
T AR1260 5 #2	11.671	0.0	12721421.270	533.8985	ng/ml	100

(#) = Qualifier Out of Range; (m) = Manual Integration; (+) = Area Summed; (*) = Surrogate Percent Recovery Out of Range; (d): Zeroed Peak

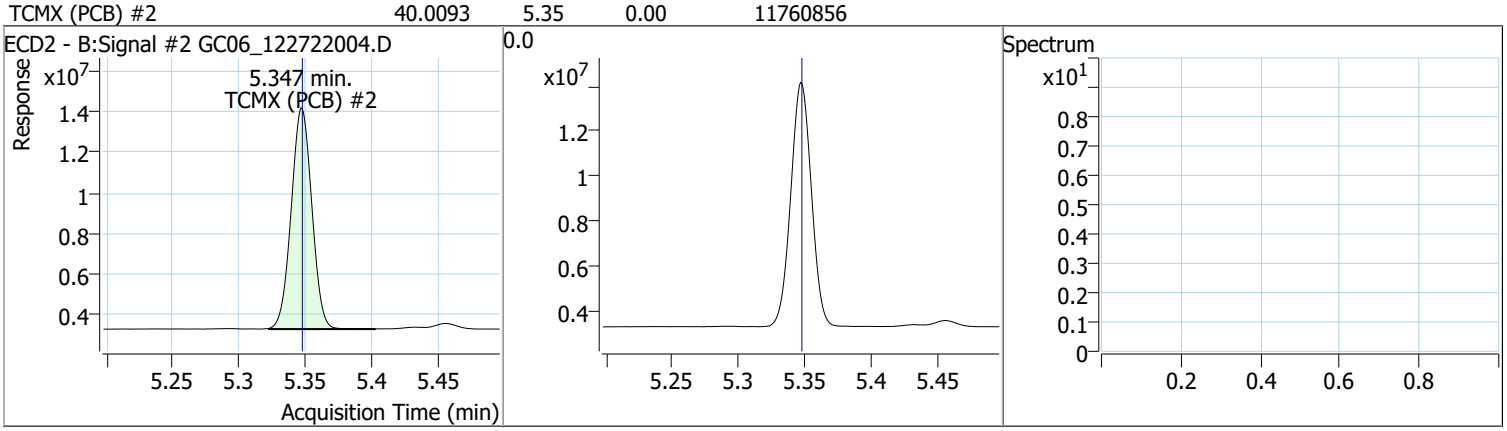
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB)	40.6274	4.95	0.00	2565146				



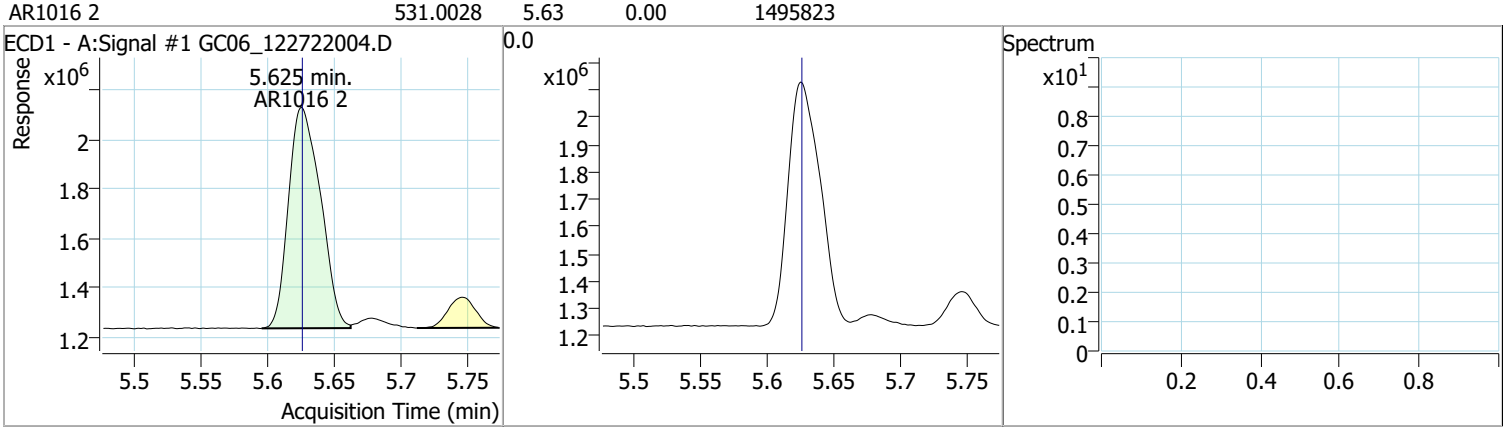
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1	500.1948	5.29	0.00	688688				



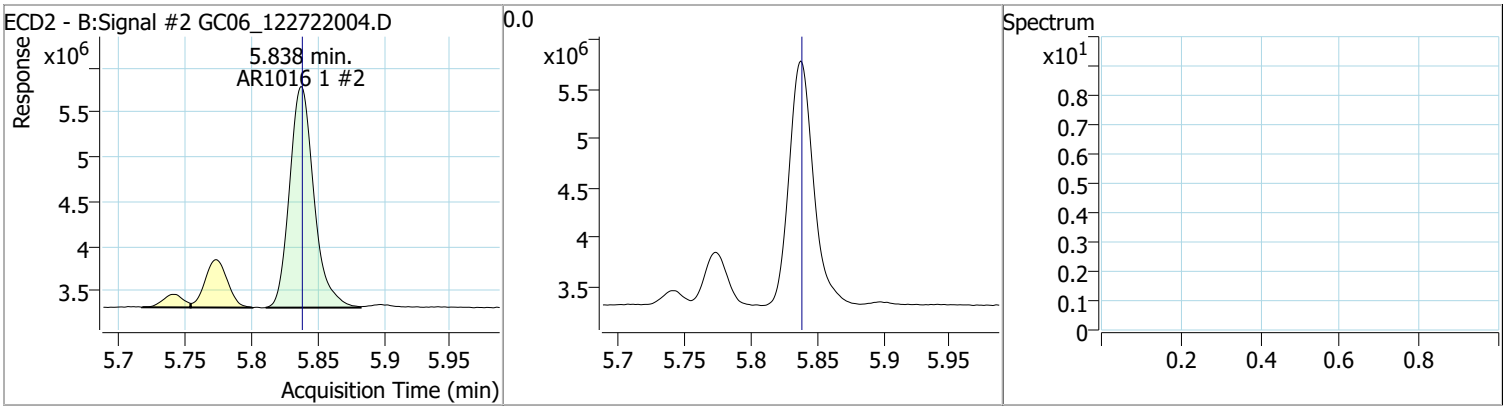
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
TCMX (PCB) #2	40.0093	5.35	0.00	11760856				



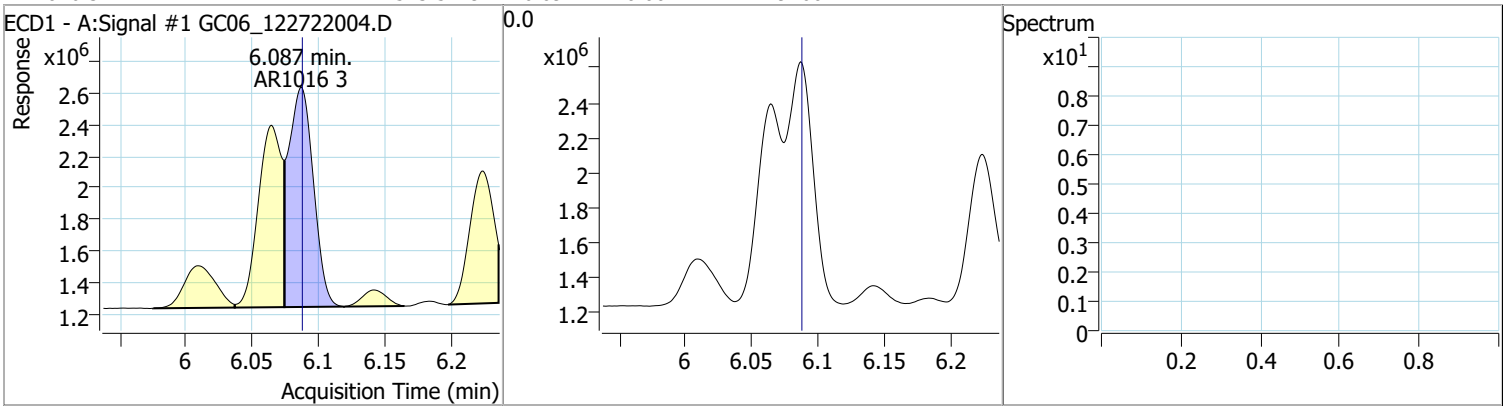
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2	531.0028	5.63	0.00	1495823				



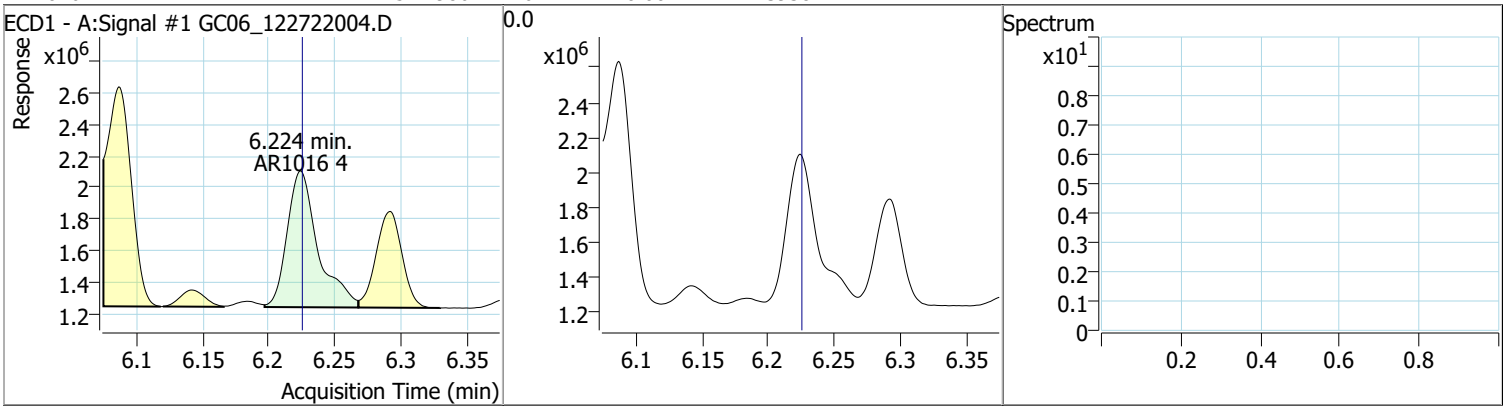
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 1 #2	499.5191	5.84	0.00	3177731				



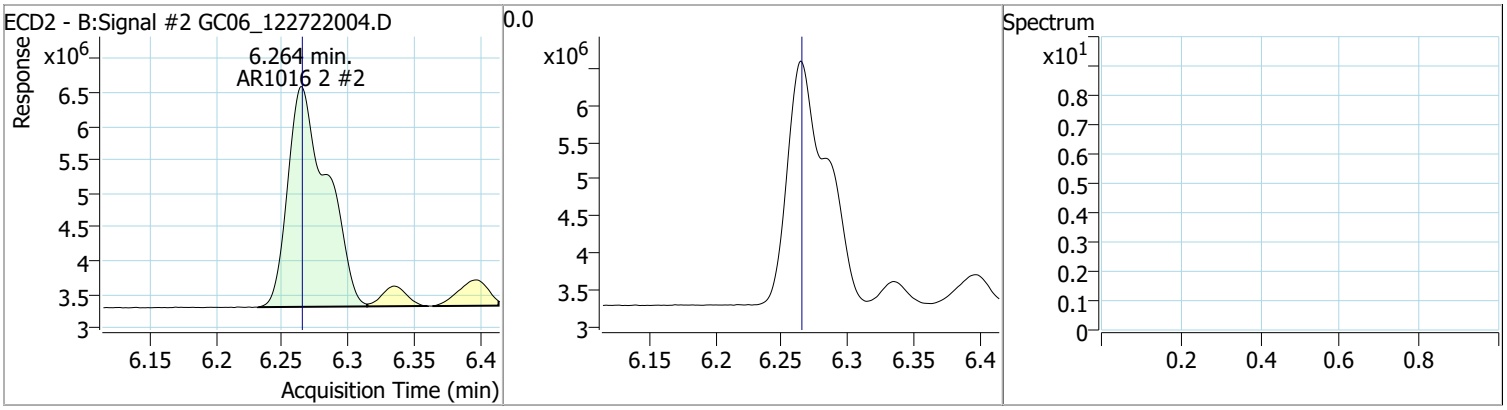
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3	513.5149	6.09	0.00	1792602				



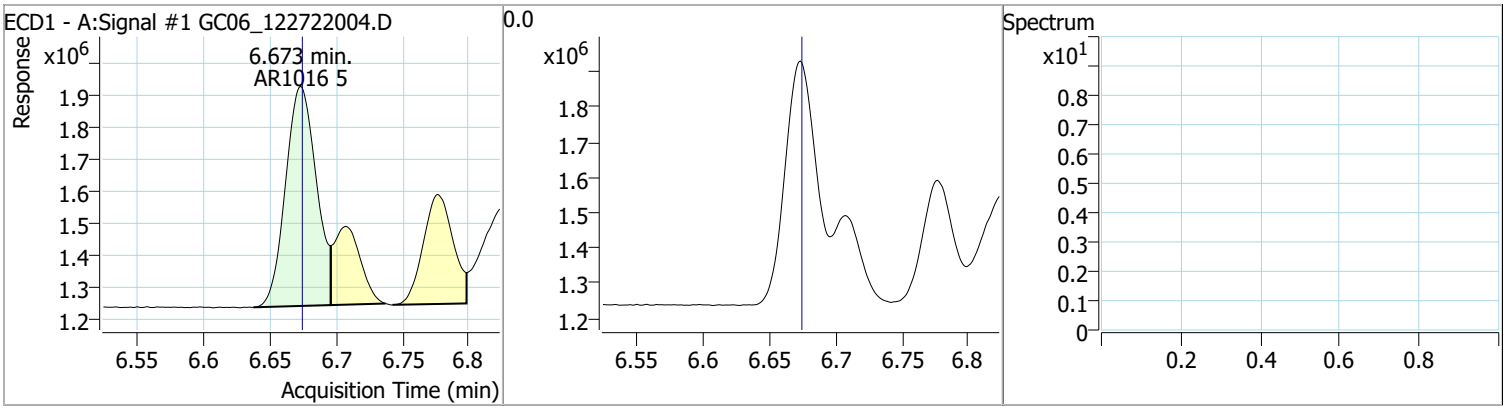
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 4	524.9864	6.22	0.00	1393841				



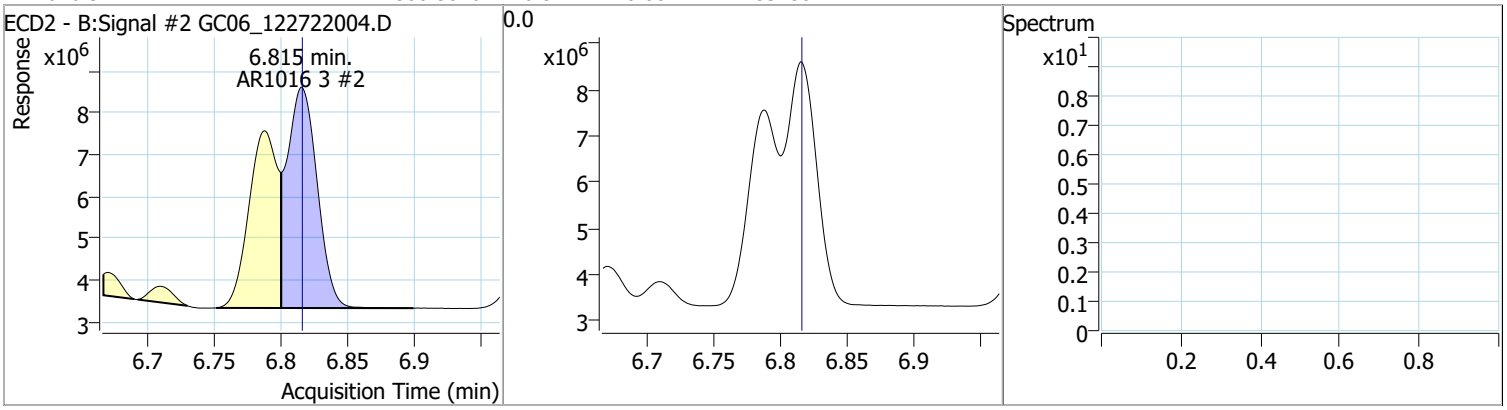
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 2 #2	737.0895	6.26	0.00	6768864				



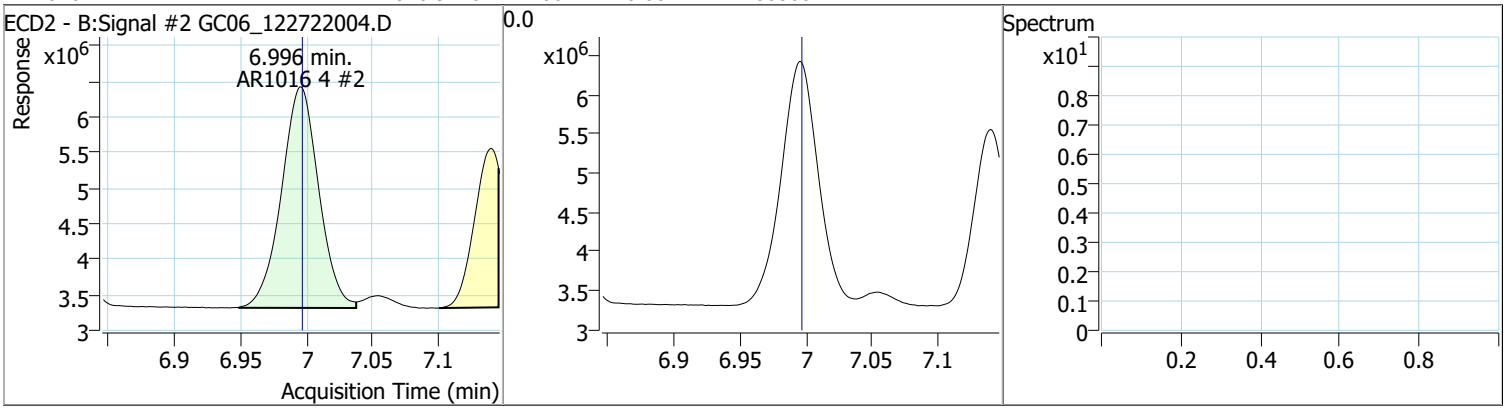
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5	520.3490	6.67	0.00	1112761				



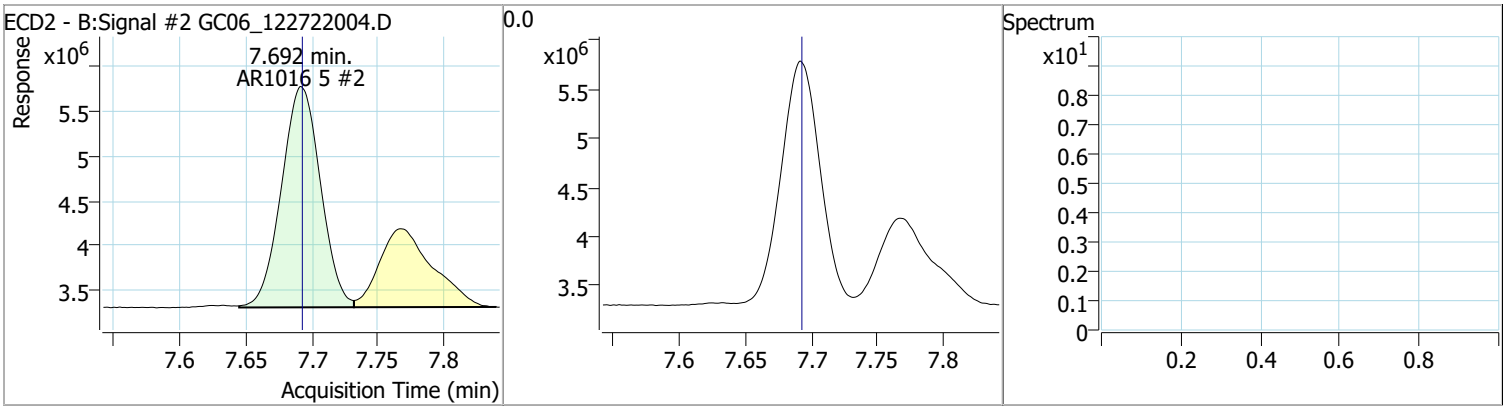
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 3 #2	500.3020	6.82	0.00	8348042				



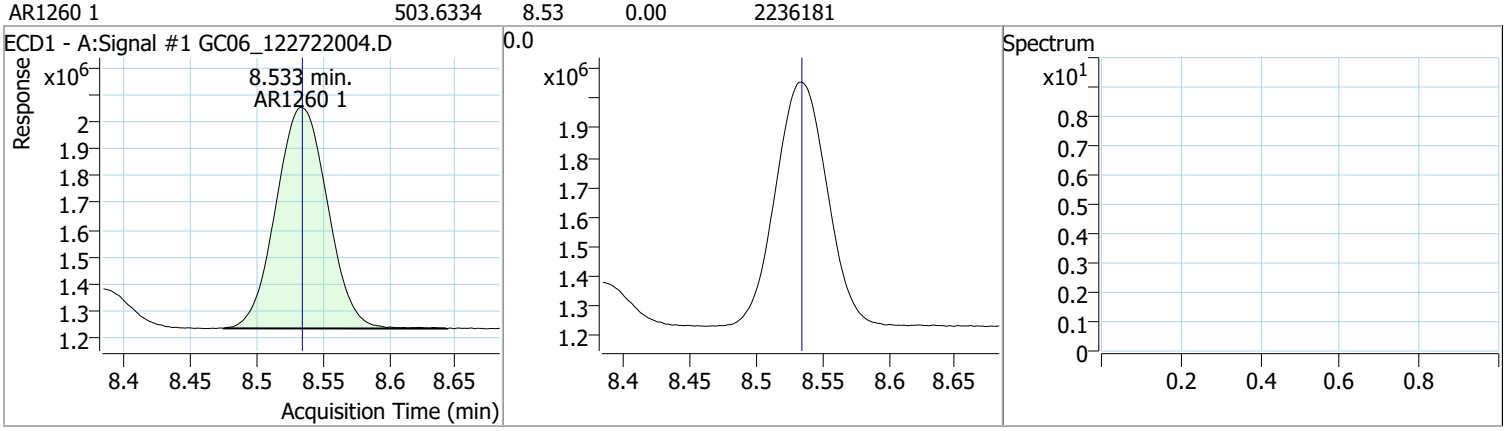
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AR1016 4 #2	510.9718	7.00	0.00	6086844				



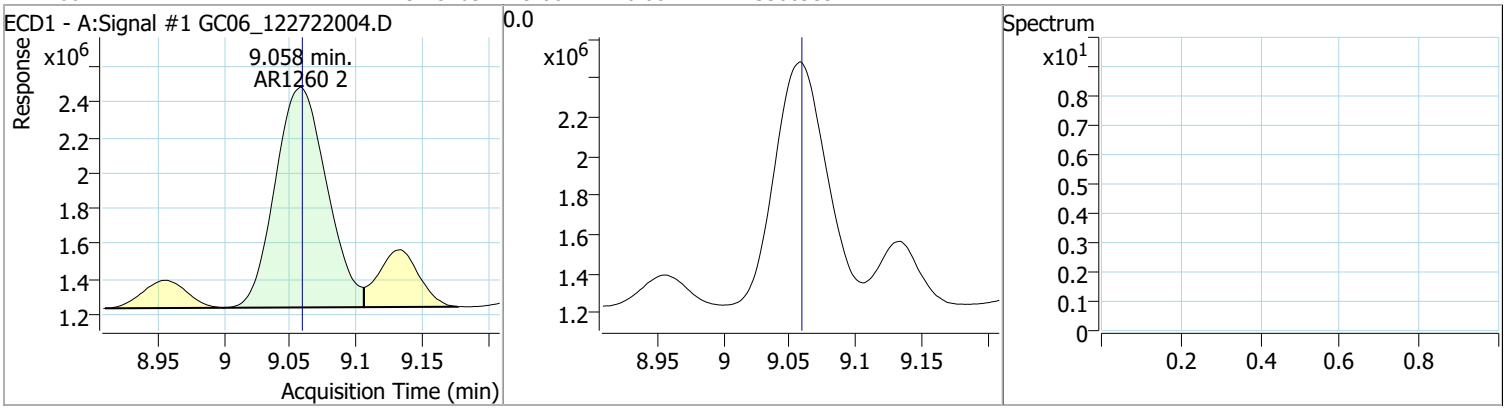
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1016 5 #2	524.9084	7.69	0.00	5082604				



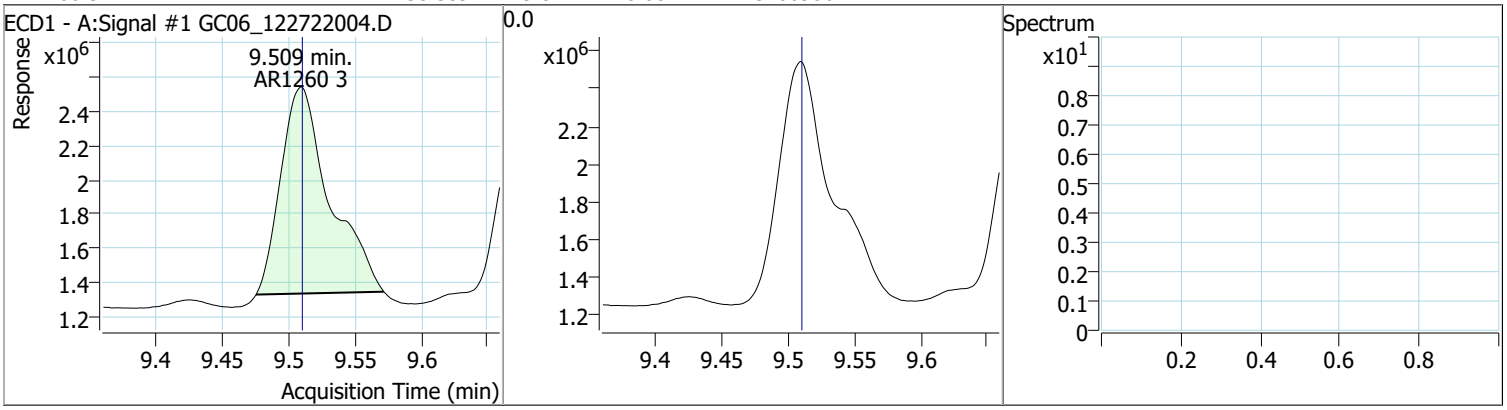
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 1	503.6334	8.53	0.00	2236181				



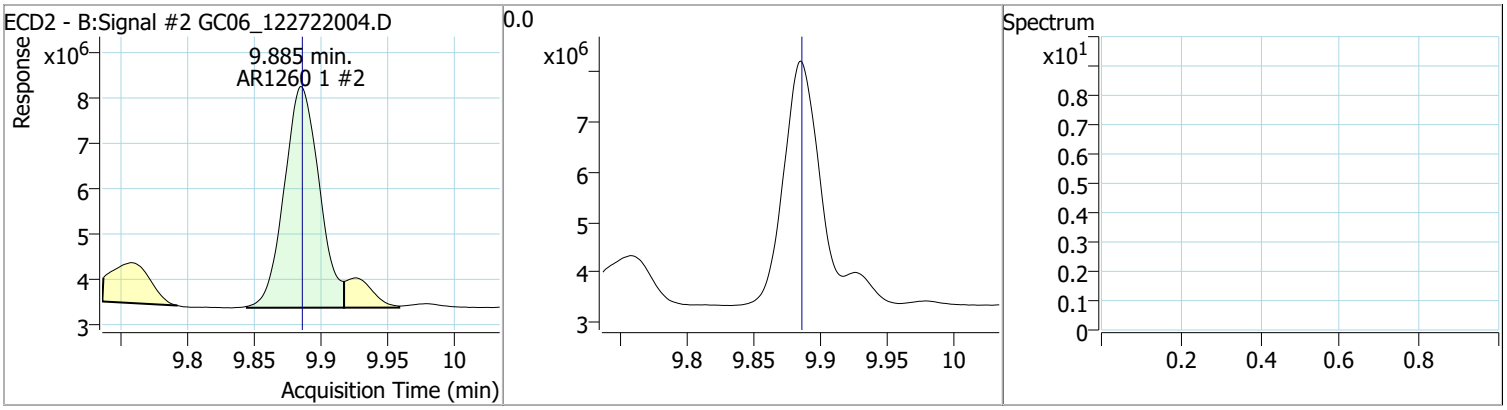
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2	497.5163	9.06	0.00	3366939				



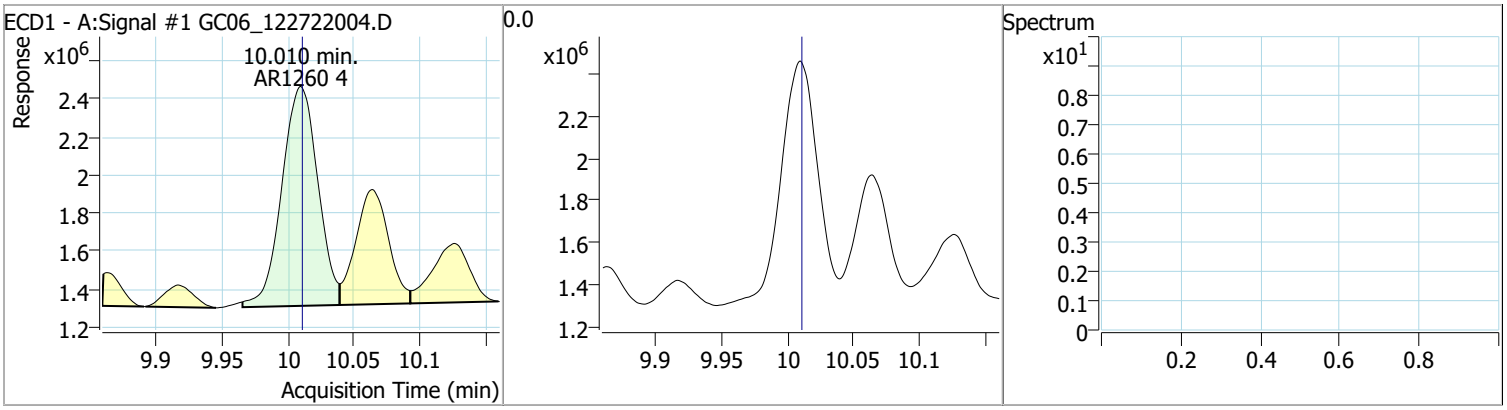
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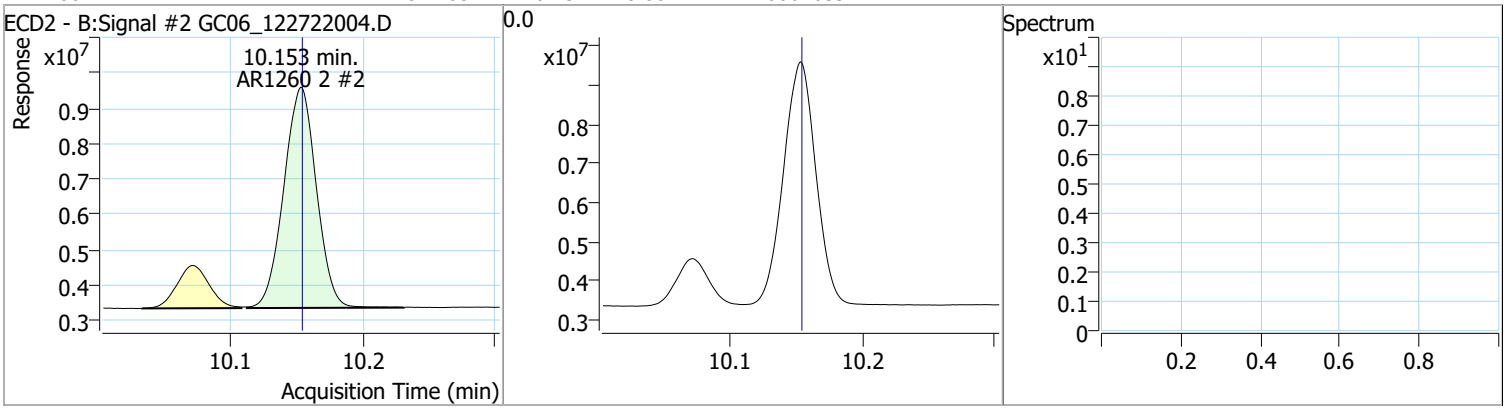
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
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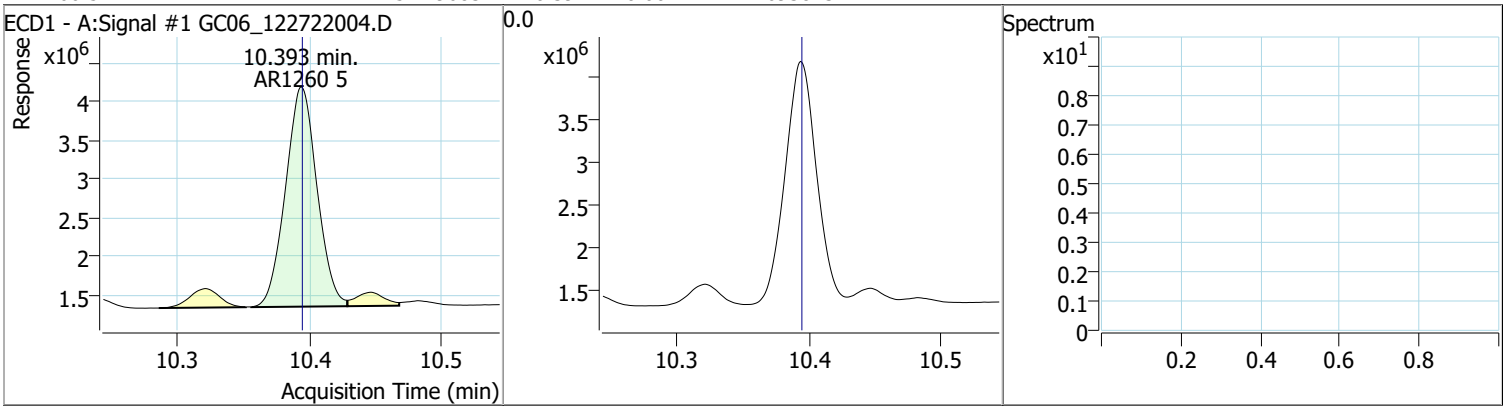
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4	569.5444	10.01	0.00	2185529				



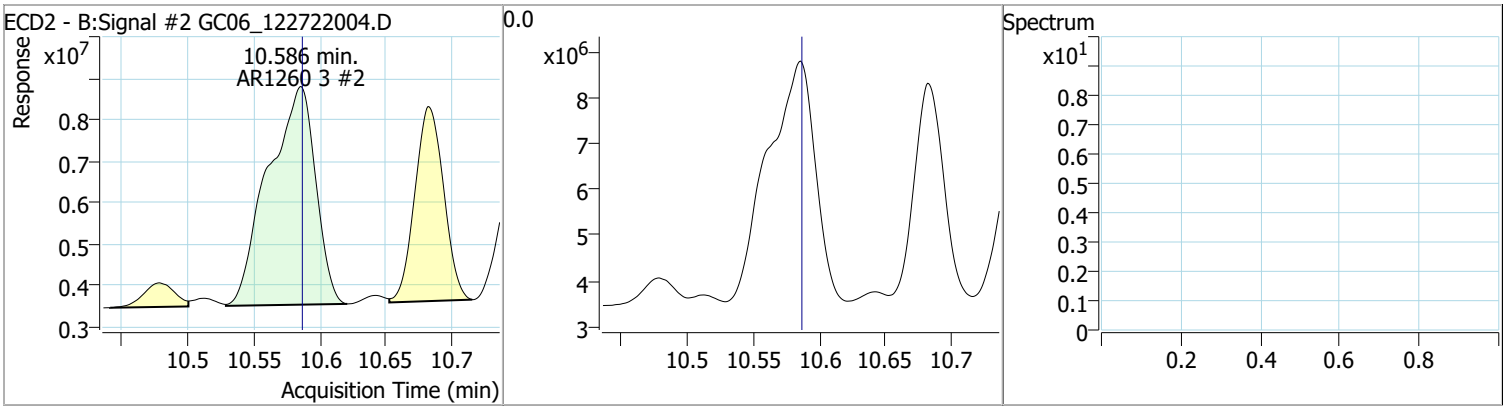
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 2 #2	487.4052	10.15	0.00	10667639				



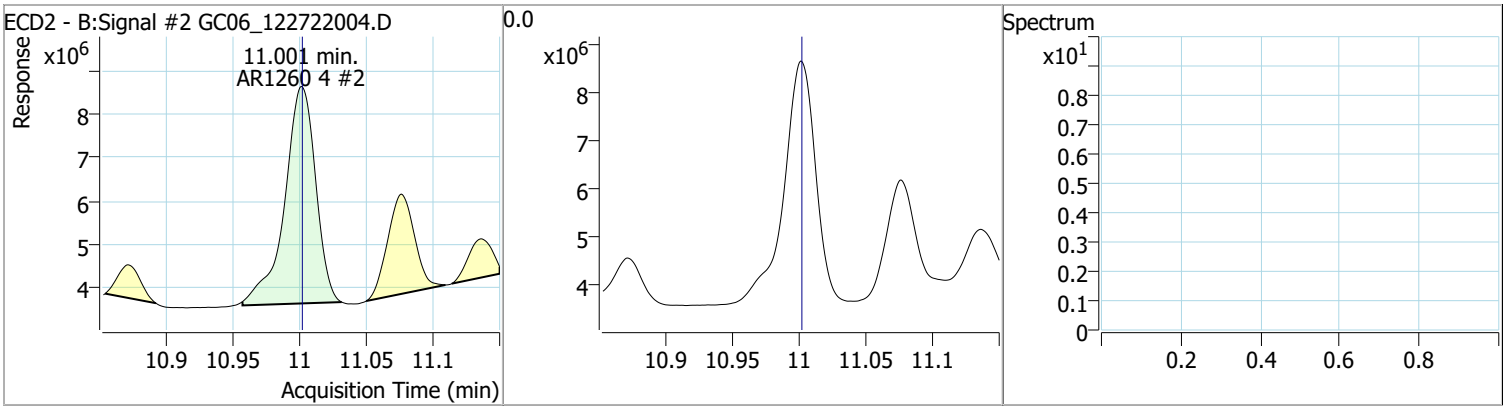
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5	577.9683	10.39	0.00	4693843				



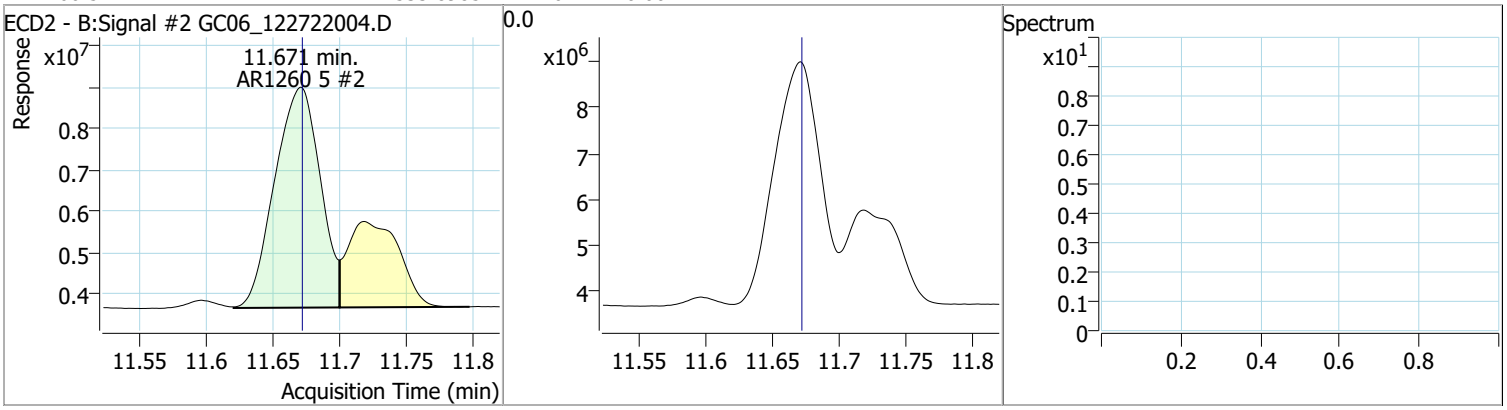
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 3 #2	472.9969	10.59	0.00	13103723				



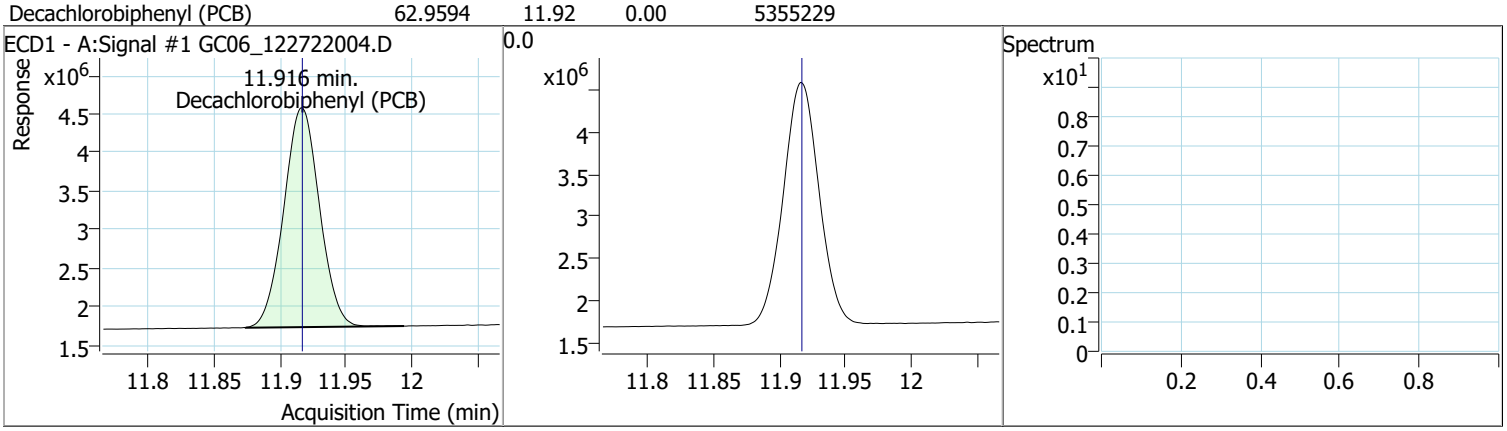
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 4 #2	513.4784	11.00	0.00	8167124				



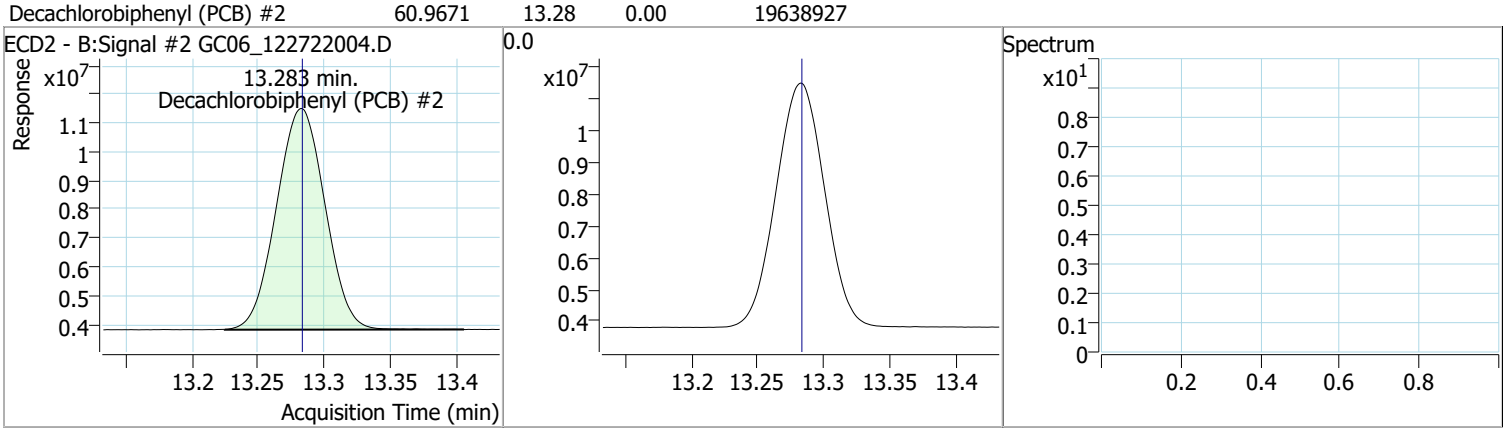
Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
AR1260 5 #2	533.8985	11.67	0.00	12721421				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB)	62.9594	11.92	0.00	5355229				



Compound	Conc.	RT	Dev(Min)	Resp.	QIon	QRatio	Lower	Upper
Decachlorobiphenyl (PCB) #2	60.9671	13.28	0.00	19638927				



Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

Lab Job Number: 475743
Report Level: IV
Report Date: 12/30/2022

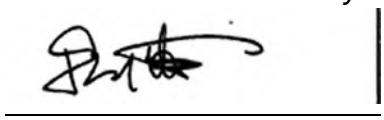
Metals

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
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This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	475743
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	12/21/22

Sample ID	Lab ID	Collected	Matrix
ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-L-LA	475743-003	12/21/22 08:10	Wipe
ARCH-C3W-DG-2 TO 2.5-221221-L-FB	475743-005	12/21/22 07:35	Wipe
ARCH-C3W-DG-2 TO 2.5-221221-L-DUP-FB	475743-006	12/21/22 07:35	Wipe
ARCH-C4W-DG-2 TO 2.5-221221-L-FB	475743-008	12/21/22 08:00	Wipe
ARCH-C4W-DG-2 TO 2.5-221221-L-DUP-FB	475743-009	12/21/22 08:00	Wipe
ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-L-LA	475743-012	12/21/22 07:50	Wipe
ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-L-LA	475743-014	12/21/22 08:40	Wipe

Case Narrative

METALS (EPA 6010B)

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 475743 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 12/21/22

This data package contains sample and QC results for seven wipe samples, requested for the above referenced project on 12/22/22. See attached cooler receipt form for any sample receipt problems or discrepancies.

Metals (EPA 6010B):

- An interference check standard recovered slightly low for lead in the presence of high concentrations of aluminum. As it relates to these samples, the bias is insignificant; results are flagged "b", but there is no effect on the data quality.
- No analytical problems were encountered.

Chain of Custody

475743

ENTHALPY ANALYTICAL

Chain of Custody Record COC ID:

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (PB)	custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level IV

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott, M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 3546/8082	Lead by EPA Method 3050M/6010B							HOLD	Test Instructions / Comments
1	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-LA	12/21/2022	0810	WP	1		X									**Confirmation Wipe Samples - Level IV Report/Stage 3 Validation**
2	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-DUP-LA	12/21/2022	0810	WP	1		X									Report PCB concentrations on a µg/100cm2 basis
3	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-L-LA	12/21/2022	0810	WP	1			X								Report lead concentrations on a µg/ft2 basis
4	ARCH-C3W-DG-2 TO 2.5-221221-P-FB	12/21/2022	0735	WP	1		X									Report Aroclor 1268 concentrations in addition to the standard Aroclors
5	ARCH-C3W-DG-2 TO 2.5-221221-L-FB	12/21/2022	0735	WP	1			X								Wipe samples collected from Zone 3 Enclosure C/D
6	ARCH-C3W-DG-2 TO 2.5-221221-L-DUP-FB	12/21/2022	0735	WP	1			X								
7	ARCH-C4W-DG-2 TO 2.5-221221-P-FB	12/21/2022	0800	WP	1		X									
8	ARCH-C4W-DG-2 TO 2.5-221221-L-FB	12/21/2022	0800	WP	1			X								
9	ARCH-C4W-DG-2 TO 2.5-221221-L-DUP-FB	12/21/2022	0800	WP	1			X								
10	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-LA	12/21/2022	0750	WP	1		X									
11	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-DUP-LA	12/21/2022	0750	WP	1		X									
12	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-L-LA	12/21/2022	0750	WP	1			X								2xRivet Type 2 = 0.0200ft2
13	ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-P-LA	12/21/2022	0840	WP	1		X									
14	ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-L-LA	12/21/2022	0840	WP	1			X								1xRivet Type 2 = 0.0100ft2
15																

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Donald Welsh	Rincon Consultants, Inc.	12/21/22 1435
[1] Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY "	12/21/22 14:38
[2] Relinquished By:	Audrey Hudson	"	"	12/21/22 17:00
[2] Received By:		Jake Peterson	EA	12/21/22 17:00
[3] Relinquished By:		Geena Sylvestri	Enthalpy EA	12.21.22 17:49
[3] Received By:	Geena Sylvestri	Geena Sylvestri		12/22/22 10:00

JJP

SAMPLE RECEIPT CHECKLIST 475743

Section 1: Login # 475744 Client: Rincon

Date Received: 122122 Project: _____

ENTHALPY

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No (**skip Section 3 below**)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 12.21.22 By (print) Jak Peterson (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 12.21.22 **By (print)** JP for MY **(sign)** _____

Date Labeled 12.21.22 **By (print)** Jak Peterson **(sign)** _____

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 - NCTRA WP

Date Received: 12/22/22 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 4.1 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☑ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 0.9 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?		✓	
If custody seals are present, were they intact?			✓
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: DEC 22 2022

Results & QC Summary

ENTHALPY ANALYTICAL

Lead

Lab #: 475743 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-L-LA **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475743-003 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475743-003 Analyte	Result	RL	Units	Qual
Lead	**56**	0.25	ug/ft2	b

Field ID: ARCH-C3W-DG-2 TO 2.5-221221-L-FB **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475743-005 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475743-005 Analyte	Result	RL	Units	Qual
Lead	**51**	0.25	ug/ft2	b

Field ID: ARCH-C3W-DG-2 TO 2.5-221221-L-DUP-FB **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475743-006 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475743-006 Analyte	Result	RL	Units	Qual
Lead	**55**	0.25	ug/ft2	b

Field ID: ARCH-C4W-DG-2 TO 2.5-221221-L-FB **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475743-008 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475743-008 Analyte	Result	RL	Units	Qual
Lead	**45**	0.25	ug/ft2	b

Field ID: ARCH-C4W-DG-2 TO 2.5-221221-L-DUP-FB **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475743-009 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Diln Fac: 1.000 **Analyzed:** 12/23/22

475743-009 Analyte	Result	RL	Units	Qual
Lead	**33**	0.25	ug/ft2	b

ENTHALPY ANALYTICAL

Lead

Lab #: 475743 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-L-LA **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475743-012 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475743-012 Analyte	Result	RL	Units	Qual
Lead	**220**	0.25	ug/ft2	b

Field ID: ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-L-LA **Batch#:** 303908 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 12/21/22 **Analysis:** EPA 6010B
Lab ID: 475743-014 **Received:** 12/21/22 **Analyst:** SBW
Matrix: Wipe **Prepared:** 12/23/22
Dln Fac: 1.000 **Analyzed:** 12/23/22

475743-014 Analyte	Result	RL	Units	Qual
Lead	**100**	0.25	ug/ft2	b

Type: BLANK **Batch#:** 303908 **Analysis:** EPA 6010B
Lab ID: QC1034212 **Prepared:** 12/23/22 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 12/23/22
Dln Fac: 1.000 **Prep:** EPA 3050B

QC1034212 Analyte	Result	RL	Units	Qual
Lead	ND	0.25	ug/ft2	b

Legend
ND: Not Detected
RL: Reporting Limit
b: See narrative

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 475743 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 303908 **Analysis:** EPA 6010B

Lab ID: QC1034213 **Prepared:** 12/23/22 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 12/23/22

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1034213 Analyte	Spiked	Result	%REC	Limits	Units	Qual
Lead	100.0	104.8	105	80-120	ug/ft2	b

Type: BSD **Batch#:** 303908 **Analysis:** EPA 6010B

Lab ID: QC1034214 **Prepared:** 12/23/22 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 12/23/22

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1034214 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
Lead	100.0	103.5	103	80-120	ug/ft2	1	20	b

Legend

RPD: Relative Percent Difference

b: See narrative

REPORTING SUMMARY FOR 475743 METALS Wipe
Enthalpy Analytical - Orange

Lab ID	Inst ID	Analyzed	IDF	PB	
475743-003	MET06	12/23/22 18:14	1.0	+	
475743-005	MET06	12/23/22 18:17	1.0	+	
475743-006	MET06	12/23/22 18:20	1.0	+	
475743-008	MET06	12/23/22 18:24	1.0	+	
475743-009	MET06	12/23/22 18:27	1.0	+	
475743-012	MET06	12/23/22 18:30	1.0	+	
475743-014	MET06	12/23/22 18:40	1.0	+	
QC1034212	MET06	12/23/22 17:25	1.0	+	
QC1034213	MET06	12/23/22 17:29	1.0	+	
QC1034214	MET06	12/23/22 17:32	1.0	+	

Enthalpy Sequence Summary for Sequence 482514607

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met06_master	ICALBLK	CALBLANK			12/23/22 08:47	1.0	1	
002	met06_master	ICAL	L1			12/23/22 08:50	1.0	2 1	
003	met06_master	ICAL	L2			12/23/22 08:53	1.0	3 1	
004	met06_master	ICAL	L3			12/23/22 08:56	1.0	4 1	
005	met06_master	ICAL	L4			12/23/22 09:00	1.0	5 1	
006	met06_master	ICAL	L5			12/23/22 09:03	1.0	6 1	
007	met06_master	ICAL	L6			12/23/22 09:06	1.0	7 1	
008	met06_master	ICAL	L7			12/23/22 09:09	1.0	8 1	
009	met06_master	ICAL	L8			12/23/22 09:13	1.0	9 1	
010	met06_master	ICV				12/23/22 09:16	1.0	10 1	
011	met06_master	XCRI				12/23/22 09:20	1.0	11 1	
012	met06_master	ICB				12/23/22 09:23	1.0	1	
013	met06_master	CRI				12/23/22 09:31	1.0	11 1	
014	met06_master	ICSA				12/23/22 09:34	1.0	12 1	5:MGASMGCO3=1400
015	met06_master	ICSAB				12/23/22 09:37	1.0	13 1	5:MGASMGCO3=1400
016	met06_master	SAMPLE	475266-013	Soil	303810	12/23/22 09:46	1.0	1	
017	met06_master	SAMPLE	475266-014	Soil	303810	12/23/22 09:50	1.0	1	
018	met06_master	SAMPLE	475322-001	Soil	303810	12/23/22 09:53	1.0	1	
019	met06_master	SAMPLE	475322-002	Soil	303810	12/23/22 09:56	1.0	1	1:FE=180
020	met06_master	SAMPLE	475322-003	Soil	303810	12/23/22 10:00	1.0	1	1:FE=190
021	met06_master	SAMPLE	475322-004	Soil	303810	12/23/22 10:03	1.0	1	
022	met06_master	SAMPLE	475448-001	Miscell.	303810	12/23/22 10:06	1.0	1	1:FE=170
023	met06_master	SAMPLE	475467-001	Soil	303810	12/23/22 10:09	1.0	1	
024	met06_master	SAMPLE	475521-005	Soil	303810	12/23/22 10:13	1.0	1	1:FE=240
025	met06_master	SAMPLE	475614-001	Soil	303810	12/23/22 10:16	1.0	1	
026	met06_master	CCV				12/23/22 10:19	1.0	10 1	

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
027	met06_master	CCB				12/23/22 10:25	1.0	1	
028	met06_master	LCS	QC1034041	Soil	303866	12/23/22 10:28	1.0	1	
029	met06_master	SAMPLE	475616-005	Soil	303810	12/23/22 10:31	1.0	1	1:FE=180
030	met06_master	SAMPLE	475654-001	Soil	303810	12/23/22 10:35	1.0	1	1:TI=11
031	met06_master	SAMPLE	475654-002	Soil	303810	12/23/22 10:38	1.0	1	2:FE=190
032	met06_master	SAMPLE	475654-003	Soil	303810	12/23/22 10:41	1.0	1	
033	met06_master	CCV				12/23/22 10:45	1.0	10 1	
034	met06_master	XCCB				12/23/22 10:48	1.0	1	
035	met06_master	CCB				12/23/22 10:53	1.0	1	
036	met06_master	BLANK	QC1034047	Miscell.	303868	12/23/22 10:56	1.0	1	
037	met06_master	LCS	QC1034048	Miscell.	303868	12/23/22 10:59	1.0	1	
038	met06_master	MSS	475180-040	Soil	303868	12/23/22 11:03	1.0	1	3:ALASAL2O3=450
039	met06_master	MS	QC1034049	Soil	303868	12/23/22 11:06	1.0	1	4:ALASAL2O3=570
040	met06_master	MSD	QC1034050	Soil	303868	12/23/22 11:09	1.0	1	4:ALASAL2O3=510
041	met06_master	PDS	QC1034226	Soil	303868	12/23/22 11:13	1.0	1	3:ALASAL2O3=440
042	met06_master	SAMPLE	475620-001	Miscell.	303868	12/23/22 11:16	1.0	1	
043	met06_master	SAMPLE	475620-001	Miscell.	303868	12/23/22 11:24	1.0	1	
044	met06_master	SAMPLE	475621-001	Miscell.	303868	12/23/22 11:27	1.0	1	
045	met06_master	SAMPLE	475180-032	Soil	303868	12/23/22 11:30	1.0	1	
046	met06_master	SAMPLE	475180-033	Soil	303868	12/23/22 11:33	1.0	1	
047	met06_master	CCV				12/23/22 11:37	1.0	10 1	
048	met06_master	CCB				12/23/22 11:43	1.0	1	
049	met06_master	SAMPLE	475180-034	Soil	303868	12/23/22 11:46	1.0	1	1:FE=190
050	met06_master	SAMPLE	475180-035	Soil	303868	12/23/22 11:49	1.0	1	1:FE=190
051	met06_master	SAMPLE	475180-036	Soil	303868	12/23/22 11:53	1.0	1	1:FE=200
052	met06_master	SAMPLE	475180-037	Soil	303868	12/23/22 11:56	1.0	1	1:FE=190

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met06_master	SAMPLE	475180-038	Soil	303868	12/23/22 11:59	1.0	1	1:FE=220
054	met06_master	SAMPLE	475180-039	Soil	303868	12/23/22 12:02	1.0	1	2:FE=210
055	met06_master	SAMPLE	475180-041	Soil	303868	12/23/22 12:06	1.0	1	1:FE=180
056	met06_master	SAMPLE	475180-042	Soil	303868	12/23/22 12:09	1.0	1	
057	met06_master	SAMPLE	475180-043	Soil	303868	12/23/22 12:12	1.0	1	2:FE=200
058	met06_master	SAMPLE	475180-044	Soil	303868	12/23/22 12:15	1.0	1	1:FE=170
059	met06_master	CCV				12/23/22 12:19	1.0	10 1	
060	met06_master	CCB				12/23/22 12:24	1.0	1	
061	met06_master	BLANK	QC1034040	Soil	303866	12/23/22 12:27	1.0	1	
062	met06_master	PDS	QC1033246	Soil	303610	12/23/22 12:30	1.0	1	4:FEASFE2O3=390
063	met06_master	LCS	QC1033543	Soil	303721	12/23/22 12:33	1.0	1	
064	met06_master	SAMPLE	475180-045	Soil	303868	12/23/22 12:37	1.0	1	1:FE=230
065	met06_master	SAMPLE	475180-046	Soil	303868	12/23/22 12:40	1.0	1	1:FE=200
066	met06_master	SAMPLE	475180-047	Soil	303868	12/23/22 12:43	1.0	1	
067	met06_master	SAMPLE	475180-048	Soil	303868	12/23/22 12:46	1.0	1	1:FE=230
068	met06_master	SAMPLE	475180-049	Soil	303868	12/23/22 12:50	1.0	1	2:FE=240
069	met06_master	MSS	473490-001	Soil	303866	12/23/22 12:53	1.0	1	5:ALASAL2O3=430
070	met06_master	MS	QC1034042	Soil	303866	12/23/22 12:56	1.0	1	5:ALASAL2O3=560
071	met06_master	CCV				12/23/22 12:59	1.0	10 1	
072	met06_master	CCB				12/23/22 13:05	1.0	1	
073	met06_master	MSD	QC1034043	Soil	303866	12/23/22 13:08	1.0	1	5:ALASAL2O3=510
074	met06_master	PDS	QC1034249	Soil	303866	12/23/22 13:11	1.0	1	5:ALASAL2O3=420
075	met06_master	SAMPLE	473490-002	Soil	303866	12/23/22 13:15	1.0	1	3:FE=310
076	met06_master	SAMPLE	473490-003	Soil	303866	12/23/22 13:18	1.0	1	3:FE=320
077	met06_master	SAMPLE	473490-004	Soil	303866	12/23/22 13:21	1.0	1	2:FE=310
078	met06_master	SAMPLE	473490-005	Soil	303866	12/23/22 13:24	1.0	1	2:FE=310

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
079	met06_master	SAMPLE	473490-006	Soil	303866	12/23/22 13:28	1.0	1	2:FE=310
080	met06_master	SAMPLE	473490-007	Soil	303866	12/23/22 13:31	1.0	1	2:FE=300
081	met06_master	SAMPLE	473490-008	Soil	303866	12/23/22 13:34	1.0	1	2:FE=300
082	met06_master	SAMPLE	473490-009	Soil	303866	12/23/22 13:37	1.0	1	2:FE=310
083	met06_master	CCV				12/23/22 13:41	1.0	10 1	
084	met06_master	XCCB				12/23/22 13:44	1.0	1	
085	met06_master	CCB				12/23/22 13:48	1.0	1	
086	met06_master	BLANK	QC1034203	Wipe	303906	12/23/22 13:51	1.0	1	
087	met06_master	BS	QC1034204	Wipe	303906	12/23/22 13:54	1.0	1	
088	met06_master	BSD	QC1034205	Wipe	303906	12/23/22 13:58	1.0	1	
089	met06_master	SAMPLE	474637-001	Water	303192	12/23/22 14:01	1.0	1	
090	met06_master	SAMPLE	474637-002	Water	303192	12/23/22 14:04	1.0	1	
091	met06_master	SAMPLE	474637-003	Water	303192	12/23/22 14:07	1.0	1	
092	met06_master	SAMPLE	473490-010	Soil	303866	12/23/22 14:11	1.0	1	2:FE=300
093	met06_master	SAMPLE	475736-002	Wipe	303906	12/23/22 14:14	1.0	1	
094	met06_master	SAMPLE	475736-004	Wipe	303906	12/23/22 14:17	1.0	1	
095	met06_master	SAMPLE	475736-006	Wipe	303906	12/23/22 14:20	1.0	1	
096	met06_master	CCV				12/23/22 14:24	1.0	10 1	
097	met06_master	CCB				12/23/22 14:29	1.0	1	
098	met06_master	SAMPLE	474637-001	Water	303192	12/23/22 14:33	5.0	1	2:NA=2400
099	met06_master	SAMPLE	474637-002	Water	303192	12/23/22 14:36	5.0	1	2:SULFUR=2600
100	met06_master	SAMPLE	474637-003	Water	303192	12/23/22 14:39	5.0	1	2:NA=2400
101	met06_master	SAMPLE	475736-007	Wipe	303906	12/23/22 14:42	1.0	1	
102	met06_master	SAMPLE	475736-010	Wipe	303906	12/23/22 14:46	1.0	1	
103	met06_master	SAMPLE	475736-012	Wipe	303906	12/23/22 14:49	1.0	1	
104	met06_master	SAMPLE	475736-013	Wipe	303906	12/23/22 14:52	1.0	1	

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met06_master	SAMPLE	475736-015	Wipe	303906	12/23/22 14:55	1.0	1	
106	met06_master	SAMPLE	475736-017	Wipe	303906	12/23/22 14:58	1.0	1	
107	met06_master	SAMPLE	475736-019	Wipe	303906	12/23/22 15:02	1.0	1	
108	met06_master	CCV				12/23/22 15:05	1.0	10 1	
109	met06_master	CCB				12/23/22 15:08	1.0	1	
110	met06_master	SAMPLE	475736-021	Wipe	303906	12/23/22 15:12	1.0	1	
111	met06_master	SAMPLE	475736-023	Wipe	303906	12/23/22 15:15	1.0	1	
112	met06_master	SAMPLE	475736-025	Wipe	303906	12/23/22 15:18	1.0	1	
113	met06_master	SAMPLE	475736-027	Wipe	303906	12/23/22 15:21	1.0	1	
114	met06_master	SAMPLE	475736-029	Wipe	303906	12/23/22 15:25	1.0	1	1:FE=190
115	met06_master	SAMPLE	475736-031	Wipe	303906	12/23/22 15:28	1.0	1	
116	met06_master	SAMPLE	475736-033	Wipe	303906	12/23/22 15:31	1.0	1	
117	met06_master	SAMPLE	475736-035	Wipe	303906	12/23/22 15:34	1.0	1	
118	met06_master	SAMPLE	475736-037	Wipe	303906	12/23/22 15:38	1.0	1	
119	met06_master	SAMPLE	475736-039	Wipe	303906	12/23/22 15:41	1.0	1	
120	met06_master	CCV				12/23/22 15:44	1.0	10 1	
121	met06_master	CCB				12/23/22 15:47	1.0	1	
122	met06_master	BLANK	QC1034333	WET Leachate	303944	12/23/22 15:51	1.0	1	
123	met06_master	BS	QC1034334	WET Leachate	303944	12/23/22 15:54	1.0	1	
124	met06_master	BSD	QC1034335	WET Leachate	303944	12/23/22 15:57	1.0	1	
125	met06_master	SAMPLE	474542-003	WET Leachate	303944	12/23/22 16:00	1.0	1	
126	met06_master	SAMPLE	474542-007	WET Leachate	303944	12/23/22 16:04	1.0	1	
127	met06_master	SAMPLE	474734-001	WET Leachate	303944	12/23/22 16:07	1.0	1	
128	met06_master	SAMPLE	475016-004	WET Leachate	303944	12/23/22 16:10	1.0	1	
129	met06_master	SAMPLE	475199-001	WET Leachate	303944	12/23/22 16:13	1.0	1	
130	met06_master	SAMPLE	475199-002	WET Leachate	303944	12/23/22 16:17	1.0	1	

Enthalpy Sequence Summary for Sequence 482514607

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
131	met06_master	SAMPLE	475620-001	WET Leachate	303944	12/23/22 16:20	1.0	1	
132	met06_master	CCV				12/23/22 16:24	1.0	10 1	
133	met06_master	XICB				12/23/22 16:27	1.0	1	
134	met06_master	CCB				12/23/22 16:32	1.0	1	
135	met06_master	SAMPLE	475621-001	WET Leachate	303944	12/23/22 16:35	1.0	1	
136	met06_master	BLANK	QC1034233	Soil	303917	12/23/22 16:38	1.0	1	
137	met06_master	LCS	QC1034234	Soil	303917	12/23/22 16:42	1.0	1	
138	met06_master	SAMPLE	474594-001	Miscell.	303917	12/23/22 16:45	1.0	1	1:P=79
139	met06_master	SAMPLE	474902-010	Soil	303917	12/23/22 16:48	1.0	1	
140	met06_master	SAMPLE	474922-001	Miscell.	303917	12/23/22 16:52	1.0	1	
141	met06_master	SAMPLE	475086-002	Soil	303917	12/23/22 16:55	1.0	1	1:P=11
142	met06_master	MSS	475318-001	Soil	303917	12/23/22 16:58	1.0	1	4:ALASAL2O3=410
143	met06_master	MS	QC1034235	Soil	303917	12/23/22 17:01	1.0	1	4:ALASAL2O3=470
144	met06_master	MSD	QC1034236	Soil	303917	12/23/22 17:04	1.0	1	4:ALASAL2O3=490
145	met06_master	CCV				12/23/22 17:08	1.0	10 1	
146	met06_master	XCCB				12/23/22 17:11	1.0	1	
147	met06_master	CCB				12/23/22 17:16	1.0	1	
148	met06_master	PDS	QC1034377	Soil	303917	12/23/22 17:19	1.0	1	4:ALASAL2O3=400
149	met06_master	SAMPLE	475367-001	Soil	303917	12/23/22 17:22	1.0	1	2:FE=230
150	met06_master	BLANK	QC1034212	Wipe	303908	12/23/22 17:25	1.0	1	
151	met06_master	BS	QC1034213	Wipe	303908	12/23/22 17:29	1.0	1	
152	met06_master	BSD	QC1034214	Wipe	303908	12/23/22 17:32	1.0	1	
153	met06_master	SAMPLE	475736-041	Wipe	303908	12/23/22 17:35	1.0	1	
154	met06_master	SAMPLE	475736-043	Wipe	303908	12/23/22 17:39	1.0	1	
155	met06_master	SAMPLE	475736-046	Wipe	303908	12/23/22 17:42	1.0	1	
156	met06_master	SAMPLE	475736-048	Wipe	303908	12/23/22 17:45	1.0	1	

Enthalpy Sequence Summary for Sequence 482514607

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met06_master	SAMPLE	475736-050	Wipe	303908	12/23/22 17:48	1.0	1	
158	met06_master	CCV				12/23/22 17:52	1.0	10 1	
159	met06_master	CCB				12/23/22 17:57	1.0	1	
160	met06_master	SAMPLE	475736-052	Wipe	303908	12/23/22 18:01	1.0	1	1:FE=400
161	met06_master	SAMPLE	475736-054	Wipe	303908	12/23/22 18:04	1.0	1	
162	met06_master	SAMPLE	475736-056	Wipe	303908	12/23/22 18:07	1.0	1	
163	met06_master	SAMPLE	475736-058	Wipe	303908	12/23/22 18:11	1.0	1	
164	met06_master	SAMPLE	475743-003	Wipe	303908	12/23/22 18:14	1.0	1	
165	met06_master	SAMPLE	475743-005	Wipe	303908	12/23/22 18:17	1.0	1	
166	met06_master	SAMPLE	475743-006	Wipe	303908	12/23/22 18:20	1.0	1	
167	met06_master	SAMPLE	475743-008	Wipe	303908	12/23/22 18:24	1.0	1	
168	met06_master	SAMPLE	475743-009	Wipe	303908	12/23/22 18:27	1.0	1	
169	met06_master	SAMPLE	475743-012	Wipe	303908	12/23/22 18:30	1.0	1	
170	met06_master	CCV				12/23/22 18:33	1.0	10 1	
171	met06_master	CCB				12/23/22 18:37	1.0	1	
172	met06_master	SAMPLE	475743-014	Wipe	303908	12/23/22 18:40	1.0	1	
173	met06_master	SAMPLE	475744-002	Wipe	303908	12/23/22 18:43	1.0	1	
174	met06_master	SAMPLE	475744-004	Wipe	303908	12/23/22 18:46	1.0	1	
175	met06_master	BLANK	QC1034240	Soil	303919	12/23/22 18:50	1.0	1	
176	met06_master	BS	QC1034241	Soil	303919	12/23/22 18:53	1.0	1	
177	met06_master	BSD	QC1034242	Soil	303919	12/23/22 18:56	1.0	1	
178	met06_master	SAMPLE	473490-011	Soil	303919	12/23/22 18:59	1.0	1	2:FE=270
179	met06_master	SAMPLE	473490-012	Soil	303919	12/23/22 19:03	1.0	1	2:FE=270
180	met06_master	SAMPLE	473490-013	Soil	303919	12/23/22 19:06	1.0	1	3:FE=290
181	met06_master	SAMPLE	473490-014	Soil	303919	12/23/22 19:09	1.0	1	3:FE=280
182	met06_master	CCV				12/23/22 19:13	1.0	10 1	

Enthalpy Sequence Summary for Sequence 482514607

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
183	met06_master	CCB				12/23/22 19:16	1.0	1	
184	met06_master	SAMPLE	473490-015	Soil	303919	12/23/22 19:19	1.0	1	3:FE=310
185	met06_master	SAMPLE	473490-016	Soil	303919	12/23/22 19:22	1.0	1	3:FE=290
186	met06_master	SAMPLE	473490-017	Soil	303919	12/23/22 19:25	1.0	1	3:FE=300
187	met06_master	SAMPLE	473490-018	Soil	303919	12/23/22 19:29	1.0	1	3:FE=310
188	met06_master	SAMPLE	473490-019	Soil	303919	12/23/22 19:32	1.0	1	3:FE=320
189	met06_master	SAMPLE	473490-020	Soil	303919	12/23/22 19:35	1.0	1	3:FE=320
190	met06_master	BLANK	QC1033847	Soil	303811	12/23/22 19:38	1.0	1	
191	met06_master	LCS	QC1033848	Soil	303811	12/23/22 19:42	1.0	1	
192	met06_master	MSS	475180-012	Soil	303811	12/23/22 19:45	1.0	1	3:FEASFE2O3=270
193	met06_master	MS	QC1033849	Soil	303811	12/23/22 19:48	1.0	1	3:ALASAL2O3=360
194	met06_master	CCV				12/23/22 19:52	1.0	10 1	
195	met06_master	CCB				12/23/22 19:55	1.0	1	
196	met06_master	MSD	QC1033850	Soil	303811	12/23/22 19:58	1.0	1	3:ALASAL2O3=380
197	met06_master	PDS	QC1033851	Soil	303811	12/23/22 20:01	1.0	1	3:FEASFE2O3=270
198	met06_master	SAMPLE	475180-013	Soil	303811	12/23/22 20:05	1.0	1	1:FE=200
199	met06_master	SAMPLE	475180-014	Soil	303811	12/23/22 20:08	1.0	1	1:FE=160
200	met06_master	SAMPLE	475180-015	Soil	303811	12/23/22 20:11	1.0	1	1:FE=280
201	met06_master	SAMPLE	475180-016	Soil	303811	12/23/22 20:14	1.0	1	1:FE=170
202	met06_master	SAMPLE	475180-017	Soil	303811	12/23/22 20:18	1.0	1	1:FE=230
203	met06_master	SAMPLE	475180-018	Soil	303811	12/23/22 20:21	1.0	1	2:FE=230
204	met06_master	SAMPLE	475180-019	Soil	303811	12/23/22 20:24	1.0	1	
205	met06_master	MSS	475180-020	Soil	303811	12/23/22 20:27	1.0	1	2:ALASAL2O3=220
206	met06_master	CCV				12/23/22 20:31	1.0	10 1	
207	met06_master	CCB				12/23/22 20:34	1.0	1	
208	met06_master	MS	QC1034318	Soil	303811	12/23/22 20:37	1.0	1	3:ALASAL2O3=320

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
209	met06_master	MSD	QC1034319	Soil	303811	12/23/22 20:40	1.0	1	3:ALASAL2O3=310
210	met06_master	PDS	QC1034392	Soil	303811	12/23/22 20:44	1.0	1	2:ALASAL2O3=220
211	met06_master	SAMPLE	475180-021	Soil	303811	12/23/22 20:47	1.0	1	1:FE=220
212	met06_master	SAMPLE	475180-022	Soil	303811	12/23/22 20:50	1.0	1	
213	met06_master	SAMPLE	475180-023	Soil	303811	12/23/22 20:53	1.0	1	1:FE=180
214	met06_master	SAMPLE	475180-024	Soil	303811	12/23/22 20:57	1.0	1	1:FE=230
215	met06_master	SAMPLE	475180-025	Soil	303811	12/23/22 21:00	1.0	1	1:FE=200
216	met06_master	SAMPLE	475180-026	Soil	303811	12/23/22 21:03	1.0	1	2:FE=240
217	met06_master	SAMPLE	475180-027	Soil	303811	12/23/22 21:06	1.0	1	1:FE=290
218	met06_master	CCV				12/23/22 21:10	1.0	10 1	
219	met06_master	CCB				12/23/22 21:13	1.0	1	
220	met06_master	SAMPLE	475180-028	Soil	303811	12/23/22 21:16	1.0	1	2:FE=320
221	met06_master	SAMPLE	475180-029	Soil	303811	12/23/22 21:19	1.0	1	1:FE=220
222	met06_master	SAMPLE	475180-030	Soil	303811	12/23/22 21:23	1.0	1	1:FE=190
223	met06_master	SAMPLE	475180-031	Soil	303811	12/23/22 21:26	1.0	1	1:FE=170
224	met06_master	BLANK	QC1034374	WET Leachate	303958	12/23/22 21:29	1.0	1	
225	met06_master	BS	QC1034375	WET Leachate	303958	12/23/22 21:33	1.0	1	
226	met06_master	BSD	QC1034376	WET Leachate	303958	12/23/22 21:36	1.0	1	
227	met06_master	SAMPLE	469333-013	WET Leachate	303958	12/23/22 21:39	1.0	1	
228	met06_master	SAMPLE	469333-027	WET Leachate	303958	12/23/22 21:42	1.0	1	
229	met06_master	SAMPLE	469333-029	WET Leachate	303958	12/23/22 21:46	1.0	1	
230	met06_master	CCV				12/23/22 21:49	1.0	10 1	
231	met06_master	CCB				12/23/22 21:52	1.0	1	
232	met06_master	SAMPLE	469333-031	WET Leachate	303958	12/23/22 21:55	1.0	1	
233	met06_master	CCV				12/23/22 21:59	1.0	10 1	
234	met06_master	CCB				12/23/22 22:02	1.0	1	

Enthalpy Sequence Summary for Sequence 482514607

Instrument:	MET06	Begun:	12/23/22 08:47
Method:	EPA 6010B		

SBW 12/27/22 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 234.

Standards Used:

1=S13369 2=S17470 3=S17469 4=S17466 5=S17429 6=S17316 7=S17333 8=S17334 9=S17210 10=S17413 11=S17318 12=S17207 13=S17208

Enthalpy Internal Standard Summary for Sequence 482514607

Date: 12/23/22 Reference: met06_master

Sequence: MET06 12/23/22 Analyzed: 12/23/22 08:47

#	Type	Sample ID	Y H	Y A	Y R
		ICALBLK STD	30464900	919101	186284
		LOWER LIMIT	9139470	275730	55885
		UPPER LIMIT	60929800	1838202	372568
012	ICB		29448900	894349	178578
014	ICSA		25378000	825563	175795
015	ICSAB		25353900	829899	175568
016	SAMPLE	475266-013	28661400	879939	181251
017	SAMPLE	475266-014	28374200	880407	181146
018	SAMPLE	475322-001	28144200	873042	179640
019	SAMPLE	475322-002	27703700	868594	181264
020	SAMPLE	475322-003	27411400	859071	181729
021	SAMPLE	475322-004	27743100	866300	181048
022	SAMPLE	475448-001	27178200	852281	180140
023	SAMPLE	475467-001	27402000	854483	178990
024	SAMPLE	475521-005	27282600	856954	181204
025	SAMPLE	475614-001	28020000	873334	177816
026	CCV		26898300	858604	179638
027	CCB		29217900	922755	182849
028	LCS	QC1034041	28206100	879069	174587
029	SAMPLE	475616-005	27364400	866171	179388
030	SAMPLE	475654-001	27477400	870537	179758
031	SAMPLE	475654-002	26820100	852778	179270
032	SAMPLE	475654-003	28139600	886344	179888
033	CCV		26675700	854969	179658
035	CCB		29620900	928630	182046
036	BLANK	QC1034047	29498300	916331	178967
037	LCS	QC1034048	28721500	901532	176032
038	MSS	475180-040	28125000	898908	182356
039	MS	QC1034049	27648800	895977	181831
040	MSD	QC1034050	27698100	894937	181303
041	PDS	QC1034226	27896400	900232	182777
042	SAMPLE	475620-001	67576400 *	2243180 *	443282 *
043	SAMPLE	475620-001	27538400	870906	176013
044	SAMPLE	475621-001	25606600	821624	173710
045	SAMPLE	475180-032	28514400	911087	180197
046	SAMPLE	475180-033	28593100	918608	182362
047	CCV		26852400	873935	179524
048	CCB		29474500	940450	182648
049	SAMPLE	475180-034	27957100	911802	181842
050	SAMPLE	475180-035	27833000	906448	180954
051	SAMPLE	475180-036	27519300	908054	179317
052	SAMPLE	475180-037	27775100	921027	181562
053	SAMPLE	475180-038	27588200	918152	181072
054	SAMPLE	475180-039	27459800	906240	181145
055	SAMPLE	475180-041	27502500	923070	181543
056	SAMPLE	475180-042	27517100	918091	178790
057	SAMPLE	475180-043	27287300	914137	178658
058	SAMPLE	475180-044	27622000	928255	181366
059	CCV		26333300	890679	178426
060	CCB		28772300	954129	180951
061	BLANK	QC1034040	27968100	907495	176729

Enthalpy Internal Standard Summary for Sequence 482514607

Date: 12/23/22 Reference: met06_master

Sequence: MET06 12/23/22 Analyzed: 12/23/22 08:47

#	Type	Sample ID	Y H	Y A	Y R
062	PDS	QC1033246	27278500	905088	180403
063	LCS	QC1033543	28281800	929658	177772
064	SAMPLE	475180-045	27045100	909086	182637
065	SAMPLE	475180-046	27206900	918764	181964
066	SAMPLE	475180-047	27509600	917408	181513
067	SAMPLE	475180-048	27349500	917656	182128
068	SAMPLE	475180-049	27346800	919352	184221
069	MSS	473490-001	25933400	864861	178076
070	MS	QC1034042	26027900	871760	179706
071	CCV		26239300	880284	177222
072	CCB		28356500	936020	178505
073	MSD	QC1034043	25418600	843329	175113
074	PDS	QC1034249	26056500	860659	178020
075	SAMPLE	473490-002	25962800	859517	178276
076	SAMPLE	473490-003	25896500	877508	180241
077	SAMPLE	473490-004	25880900	858394	176060
078	SAMPLE	473490-005	25773700	858407	176521
079	SAMPLE	473490-006	25856100	858473	177144
080	SAMPLE	473490-007	26096100	871424	178946
081	SAMPLE	473490-008	26328100	876503	180515
082	SAMPLE	473490-009	26179700	862977	180250
083	CCV		25955700	863155	177385
085	CCB		28760600	940725	182137
086	BLANK	QC1034203	26582500	860570	174494
087	BS	QC1034204	26568900	866911	173582
088	BSD	QC1034205	26705800	876754	175370
092	SAMPLE	473490-010	25817000	862831	179610
093	SAMPLE	475736-002	27027300	874218	174540
094	SAMPLE	475736-004	27183700	879570	173139
095	SAMPLE	475736-006	27327400	882573	174460
096	CCV		26500700	880987	181914
097	CCB		29017400	949637	185007
098	SAMPLE	474637-001	17707700	665166	171616
099	SAMPLE	474637-002	18690900	708153	175053
100	SAMPLE	474637-003	18177300	712461	174806
101	SAMPLE	475736-007	26600600	858321	170487
102	SAMPLE	475736-010	26609900	864435	170768
103	SAMPLE	475736-012	27071900	875710	172901
104	SAMPLE	475736-013	27034700	881547	173623
105	SAMPLE	475736-015	27243700	882407	174437
106	SAMPLE	475736-017	27125600	878183	174632
107	SAMPLE	475736-019	27339000	886011	175648
108	CCV		26489700	890201	180849
109	CCB		29318500	961036	185759
110	SAMPLE	475736-021	26988500	879478	174912
111	SAMPLE	475736-023	27066300	885310	174831
112	SAMPLE	475736-025	26877600	878107	174784
113	SAMPLE	475736-027	26941300	881189	173885
114	SAMPLE	475736-029	26883100	884124	176122
115	SAMPLE	475736-031	27065100	884576	173378
116	SAMPLE	475736-033	27088500	885735	173726
117	SAMPLE	475736-035	27545000	892571	173549

Enthalpy Internal Standard Summary for Sequence 482514607

Date: 12/23/22 Reference: met06_master

Sequence: MET06 12/23/22 Analyzed: 12/23/22 08:47

#	Type	Sample ID	Y H	Y A	Y R
118	SAMPLE	475736-037	27154400	878730	172820
119	SAMPLE	475736-039	27268000	884925	172357
120	CCV		26667300	894154	179027
121	CCB		29756800	961444	184665
122	BLANK	QC1034333	27625500	930725	180303
123	BS	QC1034334	27408200	924851	181498
124	BSD	QC1034335	27569900	931142	181886
125	SAMPLE	474542-003	27395600	924962	180207
126	SAMPLE	474542-007	27468900	920764	178947
127	SAMPLE	474734-001	27774800	929980	181280
128	SAMPLE	475016-004	27620600	928439	180889
129	SAMPLE	475199-001	27642700	930844	182048
130	SAMPLE	475199-002	27662200	929496	181988
131	SAMPLE	475620-001	27276500	917975	180133
132	CCV		25626500	874516	176346
134	CCB		29341600	976678	178594
135	SAMPLE	475621-001	26981800	916304	178902
136	BLANK	QC1034233	28893500	957943	179713
137	LCS	QC1034234	28333500	945301	177841
138	SAMPLE	474594-001	27412100	911385	178651
139	SAMPLE	474902-010	26358700	887261	173678
140	SAMPLE	474922-001	29723400	981375	182599
141	SAMPLE	475086-002	27330300	923159	175613
142	MSS	475318-001	27143300	929385	177642
143	MS	QC1034235	27063800	924407	175913
144	MSD	QC1034236	26876200	926217	175842
145	CCV		26365100	911510	175563
147	CCB		28627000	984737	174551
148	PDS	QC1034377	26303500	914684	167712
149	SAMPLE	475367-001	26141400	904357	167200
150	BLANK	QC1034212	26185800	890380	163488
151	BS	QC1034213	26223100	898310	169378
152	BSD	QC1034214	26855900	908226	171454
153	SAMPLE	475736-041	27628400	923701	173217
154	SAMPLE	475736-043	27805300	931631	172485
155	SAMPLE	475736-046	27651100	927655	172135
156	SAMPLE	475736-048	27426500	918440	171729
157	SAMPLE	475736-050	27077000	910250	172360
158	CCV		28092400	969038	180703
159	CCB		29987800	1023490	180069
160	SAMPLE	475736-052	25785800	901825	167729
161	SAMPLE	475736-054	27138700	925664	170575
162	SAMPLE	475736-056	28144800	948655	174247
163	SAMPLE	475736-058	28036400	949086	173560
164	SAMPLE	475743-003	27818900	953302	173284
165	SAMPLE	475743-005	27576900	945995	173541
166	SAMPLE	475743-006	27758300	960216	176115
167	SAMPLE	475743-008	27841400	956962	176060
168	SAMPLE	475743-009	27918800	957567	176194
169	SAMPLE	475743-012	28070300	972591	175933
170	CCV		27635600	979280	183976
171	CCB		30806600	1069160	188999

Enthalpy Internal Standard Summary for Sequence 482514607

Date: 12/23/22 Reference: met06_master

Sequence: MET06 12/23/22 Analyzed: 12/23/22 08:47

#	Type	Sample ID	Y H	Y A	Y R
172	SAMPLE	475743-014	27535800	952664	173088
173	SAMPLE	475744-002	27884400	955716	174262
174	SAMPLE	475744-004	27487600	958704	175730
175	BLANK	QC1034240	29753400	1014070	182745
176	BS	QC1034241	29615300	1041790	183400
177	BSD	QC1034242	29122500	1016000	179970
178	SAMPLE	473490-011	26937100	953992	179955
179	SAMPLE	473490-012	26716800	958746	178553
180	SAMPLE	473490-013	26781000	959690	180050
181	SAMPLE	473490-014	26861700	961148	179574
182	CCV		26827900	978601	177880
183	CCB		29591900	1052280	177768
184	SAMPLE	473490-015	25846300	941441	170782
185	SAMPLE	473490-016	26053800	946810	169816
186	SAMPLE	473490-017	26509400	966286	173291
187	SAMPLE	473490-018	26125400	954472	172346
188	SAMPLE	473490-019	26342500	956841	173504
189	SAMPLE	473490-020	25905400	949029	170516
190	BLANK	QC1033847	29418600	1064450	175524
191	LCS	QC1033848	28404800	1021140	170297
192	MSS	475180-012	27589000	1008160	172656
193	MS	QC1033849	26834700	992528	169664
194	CCV		25763100	945330	165746
195	CCB		28175500	1032600	169669
196	MSD	QC1033850	26504100	984350	166779
197	PDS	QC1033851	26590700	986261	164302
198	SAMPLE	475180-013	26378000	981452	162559
199	SAMPLE	475180-014	27226700	1010360	165577
200	SAMPLE	475180-015	27592600	1027010	184201
201	SAMPLE	475180-016	28214300	1022950	176114
202	SAMPLE	475180-017	27033900	999445	169469
203	SAMPLE	475180-018	27003300	998849	168199
204	SAMPLE	475180-019	26839800	990393	164683
205	MSS	475180-020	26350300	986269	161425
206	CCV		25002700	940048	159450
207	CCB		27592800	1012590	162192
208	MS	QC1034318	25671100	963988	158269
209	MSD	QC1034319	25956000	970831	160065
210	PDS	QC1034392	25817300	966986	158461
211	SAMPLE	475180-021	26120600	986072	161992
212	SAMPLE	475180-022	26143400	963245	157922
213	SAMPLE	475180-023	27626500	979558	176117
214	SAMPLE	475180-024	27904200	1005700	183634
215	SAMPLE	475180-025	27491900	989764	179360
216	SAMPLE	475180-026	27693800	1001760	180326
217	SAMPLE	475180-027	28068300	1018750	185655
218	CCV		26325700	948288	176337
219	CCB		29047700	1028080	182072
220	SAMPLE	475180-028	28339500	1016560	189010
221	SAMPLE	475180-029	27166600	970125	178865
222	SAMPLE	475180-030	27164800	964400	176327
223	SAMPLE	475180-031	28012200	994955	181207

Enthalpy Internal Standard Summary for Sequence 482514607

Date:	12/23/22	Reference:	met06_master
Sequence:	MET06 12/23/22	Analyzed:	12/23/22 08:47

#	Type	Sample ID	Y H	Y A	Y R
224	BLANK	QC1034374	27478000	990567	178771
225	BS	QC1034375	27263000	983951	178301
226	BSD	QC1034376	27472200	983146	178619
227	SAMPLE	469333-013	27090200	972814	177553
228	SAMPLE	469333-027	27262800	967277	177884
229	SAMPLE	469333-029	27111000	961725	175829
230	CCV		26235500	935914	174964
231	CCB		29334700	1022580	180007
232	SAMPLE	469333-031	26773200	961569	175185
233	CCV		26350300	937323	174482
234	CCB		29392000	1021910	180213

ENTHALPY INITIAL CALIBRATION FOR 475743 METALS Wipe: EPA 6010B

Instrument:	MET06		
Calibration #:	482514607001	Date:	23-DEC-2022 08:47
Units:	mg/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	met06_master	482514607002	L1	23-DEC-2022 08:50	S17470, S13369 (100X)
L2	met06_master	482514607003	L2	23-DEC-2022 08:53	S17469, S13369 (100X)
L3	met06_master	482514607004	L3	23-DEC-2022 08:56	S17466, S13369 (100X)
L4	met06_master	482514607005	L4	23-DEC-2022 09:00	S17429, S13369 (100X)

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Flags
Lead	A	0.0160	0.0320	0.0323	0.0306	WB1K	0.00163	32.6808		0.0277	1.000		5	0.995	

Instrument amount = a0 + (response × a1) + (response² × a2)
WB1K: Linear regression with ICALBLK weighting factor of 1000

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D
Lead	A	0.0033	1	0.1000	6	1.0000	6	10.000	0

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06		
Calnum:	482514607001	Cal Date:	23-DEC-2022

- ICV 482514607010 (23-DEC-2022) stds: S17413, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	1.019	mg/l	2	10	

ENTHALPY INSTRUMENT BLANK FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607012	File:	met06_master	Time:	23-DEC-2022 09:23
Cal:	482514607001	Caldate:	23-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	29448900	-3.33
Yttrium	A	919101	894349	-2.69
Yttrium	R	186284	178578	-4.14

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607014	File:	met06_master	Time:	23-DEC-2022 09:34
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17207, S13369 (100X)

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.01871]	0.003333	mg/l	a- ***

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Iron	A	160.0	137.9	mg/l	86	
Aluminum	R	400.0	405.5	mg/l	101	
Calcium	R	400.0	404.6	mg/l	101	
Magnesium	R	400.0	409.8	mg/l	102	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	25378000	-16.70
Yttrium	A	919101	825563	-10.18
Yttrium	R	186284	175795	-5.63

-=low bias a=ICSA

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607015	File:	met06_master	Time:	23-DEC-2022 09:37
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17208, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	0.9520	mg/l	-5	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	25353900	-16.78
Yttrium	A	919101	829899	-9.71
Yttrium	R	186284	175568	-5.75

ENTHALPY CONTINUING CALIBRATION FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607145	File:	met06_master	Time:	23-DEC-2022 17:08
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0277	0.0322	1.000	1.052	mg/l	5	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	26365100	-13.46
Yttrium	A	919101	911510	-0.83
Yttrium	R	186284	175563	-5.76

ENTHALPY INSTRUMENT BLANK FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607147	File:	met06_master	Time:	23-DEC-2022 17:16
Cal:	482514607001	Caldate:	23-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	28627000	-6.03
Yttrium	A	919101	984737	7.14
Yttrium	R	186284	174551	-6.30

ENTHALPY CONTINUING CALIBRATION FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607158	File:	met06_master	Time:	23-DEC-2022 17:52
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0277	0.0316	1.000	1.035	mg/l	3	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	28092400	-7.79
Yttrium	A	919101	969038	5.43
Yttrium	R	186284	180703	-3.00

ENTHALPY INSTRUMENT BLANK FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607159	File:	met06_master	Time:	23-DEC-2022 17:57
Cal:	482514607001	Caldate:	23-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	29987800	-1.57
Yttrium	A	919101	1023490	11.36
Yttrium	R	186284	180069	-3.34

ENTHALPY CONTINUING CALIBRATION FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607170	File:	met06_master	Time:	23-DEC-2022 18:33
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0277	0.0316	1.000	1.035	mg/l	3	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	27635600	-9.29
Yttrium	A	919101	979280	6.55
Yttrium	R	186284	183976	-1.24

ENTHALPY INSTRUMENT BLANK FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607171	File:	met06_master	Time:	23-DEC-2022 18:37
Cal:	482514607001	Caldate:	23-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	30806600	1.12
Yttrium	A	919101	1069160	16.33
Yttrium	R	186284	188999	1.46

ENTHALPY CONTINUING CALIBRATION FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607182	File:	met06_master	Time:	23-DEC-2022 19:13
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0277	0.0315	1.000	1.032	mg/l	3	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	26827900	-11.94
Yttrium	A	919101	978601	6.47
Yttrium	R	186284	177880	-4.51

ENTHALPY INSTRUMENT BLANK FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607183	File:	met06_master	Time:	23-DEC-2022 19:16
Cal:	482514607001	Caldate:	23-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	29591900	-2.87
Yttrium	A	919101	1052280	14.49
Yttrium	R	186284	177768	-4.57

SAMPLE PREPARATION SUMMARY

Batch # : 303908
Started By : RPS
Prep Date : 23-DEC-2022 10:22
Method : 3050B
Spike #1 ID : S17422
Spike #2 ID : S17423
Analysis : ICP
Finished By : RPS
Units : ft2

Sample	Stype	Matrix	Initial	Final	Clean DF	Prep DF	pH	Sp 1 Vol	Sp 2 Vol	Sp 3 Vol	Clean Method	Analysis	Comments
475736-041		Wipe	1.02	50	1	49.02						6010	
475736-043		Wipe	1	50	1	50.0						6010	
475736-046		Wipe	1.0552	50	1	47.38						6010	
475736-048		Wipe	1	50	1	50.0						6010	
475736-050		Wipe	1	50	1	50.0						6010	
475736-052		Wipe	1	50	1	50.0						6010	
475736-054		Wipe	1	50	1	50.0						6010	
475736-056		Wipe	1	50	1	50.0						6010	
475736-058		Wipe	1	50	1	50.0						6010	
475743-003		Wipe	1	50	1	50.0						6010	
475743-005		Wipe	1	50	1	50.0						6010	
475743-006		Wipe	1	50	1	50.0						6010	
475743-008		Wipe	1	50	1	50.0						6010	
475743-009		Wipe	1	50	1	50.0						6010	
475743-012		Wipe	1.02	50	1	49.02						6010	
475743-014		Wipe	1.01	50	1	49.50						6010	
475744-002		Wipe	1.02	50	1	49.02						6010	
475744-004		Wipe	1	50	1	50.0						6010	
QC1034212	BLANK	Wipe	1	50	1	50.0						ICP	
QC1034213	BS	Wipe	1	50	1	50.0		1	1			ICP	
QC1034214	BSD	Wipe	1	50	1	50.0		1	1			ICP	

SBW 12/27/22 : please check the backlog, the prep area is logged in here by the PM

Analyst: SBW Date: 12/27/22 Reviewer: MCP Date: 12/27/22

ICP Prep Log

Initials: RPS | Prep Method: 3050B / 3010A / 200.7 / STLC | QC Batch #: 303908 | Therm ID/Corr Factor: 9175 1.0°C

Prep Start, Date/Time: 12/23/22 10:22 | Prep End, Date/Time: 12/23/22 15:39 | HotBlock Temp (Obs/Cor), °C: 93 / 94 | HotBlock ID: #3

Sample ID	Bottle #	Sample pH (Water Only)	Sample Appearance	Initial Vol. or Weight (mL or g)	Bal. ID	Final Vol (mL)	Digestion Tube Lot#	Comment
					NA	50	~~220806~~ → 220806C	
Blank	----	----	----					
LCS	----	----	----					
LCSD	—	NA	~~Turbid~~					
475736-41	A		MRe					
-43								
-46								
-48								
-50								
-52								
-54								
-56								
-58								
743-3								
-5								
-6								
-8								
-9								
-12								
-14								
744-2								
-4	↓	↓	↓					
			12/23/22					

Hydrochloric Acid ID: 10mL 221601419

Nitric Acid ID: 10 ml 20220718 19

H_2O_2 ID: 3mL 220901

LCS Spike ID: 1ml (517422, 517423)

MS/MSD Spike ID: NA

ICP Raw Data

Enthalpy Sequence Summary for Sequence 482514607

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
001	met06_master	ICALBLK	CALBLANK			12/23/22 08:47	1.0	1	
002	met06_master	ICAL	L1			12/23/22 08:50	1.0	2 1	
003	met06_master	ICAL	L2			12/23/22 08:53	1.0	3 1	
004	met06_master	ICAL	L3			12/23/22 08:56	1.0	4 1	
005	met06_master	ICAL	L4			12/23/22 09:00	1.0	5 1	
006	met06_master	ICAL	L5			12/23/22 09:03	1.0	6 1	
007	met06_master	ICAL	L6			12/23/22 09:06	1.0	7 1	
008	met06_master	ICAL	L7			12/23/22 09:09	1.0	8 1	
009	met06_master	ICAL	L8			12/23/22 09:13	1.0	9 1	
010	met06_master	ICV				12/23/22 09:16	1.0	10 1	
011	met06_master	XCRI				12/23/22 09:20	1.0	11 1	
012	met06_master	ICB				12/23/22 09:23	1.0	1	
013	met06_master	CRI				12/23/22 09:31	1.0	11 1	
014	met06_master	ICSA				12/23/22 09:34	1.0	12 1	5:MGASMGCO3=1400
015	met06_master	ICSAB				12/23/22 09:37	1.0	13 1	5:MGASMGCO3=1400
016	met06_master	SAMPLE	475266-013	Soil	303810	12/23/22 09:46	1.0	1	
017	met06_master	SAMPLE	475266-014	Soil	303810	12/23/22 09:50	1.0	1	
018	met06_master	SAMPLE	475322-001	Soil	303810	12/23/22 09:53	1.0	1	
019	met06_master	SAMPLE	475322-002	Soil	303810	12/23/22 09:56	1.0	1	1:FE=180
020	met06_master	SAMPLE	475322-003	Soil	303810	12/23/22 10:00	1.0	1	1:FE=190
021	met06_master	SAMPLE	475322-004	Soil	303810	12/23/22 10:03	1.0	1	
022	met06_master	SAMPLE	475448-001	Miscell.	303810	12/23/22 10:06	1.0	1	1:FE=170
023	met06_master	SAMPLE	475467-001	Soil	303810	12/23/22 10:09	1.0	1	
024	met06_master	SAMPLE	475521-005	Soil	303810	12/23/22 10:13	1.0	1	1:FE=240
025	met06_master	SAMPLE	475614-001	Soil	303810	12/23/22 10:16	1.0	1	
026	met06_master	CCV				12/23/22 10:19	1.0	10 1	

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
027	met06_master	CCB				12/23/22 10:25	1.0	1	
028	met06_master	LCS	QC1034041	Soil	303866	12/23/22 10:28	1.0	1	
029	met06_master	SAMPLE	475616-005	Soil	303810	12/23/22 10:31	1.0	1	1:FE=180
030	met06_master	SAMPLE	475654-001	Soil	303810	12/23/22 10:35	1.0	1	1:TI=11
031	met06_master	SAMPLE	475654-002	Soil	303810	12/23/22 10:38	1.0	1	2:FE=190
032	met06_master	SAMPLE	475654-003	Soil	303810	12/23/22 10:41	1.0	1	
033	met06_master	CCV				12/23/22 10:45	1.0	10 1	
034	met06_master	XCCB				12/23/22 10:48	1.0	1	
035	met06_master	CCB				12/23/22 10:53	1.0	1	
036	met06_master	BLANK	QC1034047	Miscell.	303868	12/23/22 10:56	1.0	1	
037	met06_master	LCS	QC1034048	Miscell.	303868	12/23/22 10:59	1.0	1	
038	met06_master	MSS	475180-040	Soil	303868	12/23/22 11:03	1.0	1	3:ALASAL2O3=450
039	met06_master	MS	QC1034049	Soil	303868	12/23/22 11:06	1.0	1	4:ALASAL2O3=570
040	met06_master	MSD	QC1034050	Soil	303868	12/23/22 11:09	1.0	1	4:ALASAL2O3=510
041	met06_master	PDS	QC1034226	Soil	303868	12/23/22 11:13	1.0	1	3:ALASAL2O3=440
042	met06_master	SAMPLE	475620-001	Miscell.	303868	12/23/22 11:16	1.0	1	
043	met06_master	SAMPLE	475620-001	Miscell.	303868	12/23/22 11:24	1.0	1	
044	met06_master	SAMPLE	475621-001	Miscell.	303868	12/23/22 11:27	1.0	1	
045	met06_master	SAMPLE	475180-032	Soil	303868	12/23/22 11:30	1.0	1	
046	met06_master	SAMPLE	475180-033	Soil	303868	12/23/22 11:33	1.0	1	
047	met06_master	CCV				12/23/22 11:37	1.0	10 1	
048	met06_master	CCB				12/23/22 11:43	1.0	1	
049	met06_master	SAMPLE	475180-034	Soil	303868	12/23/22 11:46	1.0	1	1:FE=190
050	met06_master	SAMPLE	475180-035	Soil	303868	12/23/22 11:49	1.0	1	1:FE=190
051	met06_master	SAMPLE	475180-036	Soil	303868	12/23/22 11:53	1.0	1	1:FE=200
052	met06_master	SAMPLE	475180-037	Soil	303868	12/23/22 11:56	1.0	1	1:FE=190

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
053	met06_master	SAMPLE	475180-038	Soil	303868	12/23/22 11:59	1.0	1	1:FE=220
054	met06_master	SAMPLE	475180-039	Soil	303868	12/23/22 12:02	1.0	1	2:FE=210
055	met06_master	SAMPLE	475180-041	Soil	303868	12/23/22 12:06	1.0	1	1:FE=180
056	met06_master	SAMPLE	475180-042	Soil	303868	12/23/22 12:09	1.0	1	
057	met06_master	SAMPLE	475180-043	Soil	303868	12/23/22 12:12	1.0	1	2:FE=200
058	met06_master	SAMPLE	475180-044	Soil	303868	12/23/22 12:15	1.0	1	1:FE=170
059	met06_master	CCV				12/23/22 12:19	1.0	10 1	
060	met06_master	CCB				12/23/22 12:24	1.0	1	
061	met06_master	BLANK	QC1034040	Soil	303866	12/23/22 12:27	1.0	1	
062	met06_master	PDS	QC1033246	Soil	303610	12/23/22 12:30	1.0	1	4:FEASFE2O3=390
063	met06_master	LCS	QC1033543	Soil	303721	12/23/22 12:33	1.0	1	
064	met06_master	SAMPLE	475180-045	Soil	303868	12/23/22 12:37	1.0	1	1:FE=230
065	met06_master	SAMPLE	475180-046	Soil	303868	12/23/22 12:40	1.0	1	1:FE=200
066	met06_master	SAMPLE	475180-047	Soil	303868	12/23/22 12:43	1.0	1	
067	met06_master	SAMPLE	475180-048	Soil	303868	12/23/22 12:46	1.0	1	1:FE=230
068	met06_master	SAMPLE	475180-049	Soil	303868	12/23/22 12:50	1.0	1	2:FE=240
069	met06_master	MSS	473490-001	Soil	303866	12/23/22 12:53	1.0	1	5:ALASAL2O3=430
070	met06_master	MS	QC1034042	Soil	303866	12/23/22 12:56	1.0	1	5:ALASAL2O3=560
071	met06_master	CCV				12/23/22 12:59	1.0	10 1	
072	met06_master	CCB				12/23/22 13:05	1.0	1	
073	met06_master	MSD	QC1034043	Soil	303866	12/23/22 13:08	1.0	1	5:ALASAL2O3=510
074	met06_master	PDS	QC1034249	Soil	303866	12/23/22 13:11	1.0	1	5:ALASAL2O3=420
075	met06_master	SAMPLE	473490-002	Soil	303866	12/23/22 13:15	1.0	1	3:FE=310
076	met06_master	SAMPLE	473490-003	Soil	303866	12/23/22 13:18	1.0	1	3:FE=320
077	met06_master	SAMPLE	473490-004	Soil	303866	12/23/22 13:21	1.0	1	2:FE=310
078	met06_master	SAMPLE	473490-005	Soil	303866	12/23/22 13:24	1.0	1	2:FE=310

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
079	met06_master	SAMPLE	473490-006	Soil	303866	12/23/22 13:28	1.0	1	2:FE=310
080	met06_master	SAMPLE	473490-007	Soil	303866	12/23/22 13:31	1.0	1	2:FE=300
081	met06_master	SAMPLE	473490-008	Soil	303866	12/23/22 13:34	1.0	1	2:FE=300
082	met06_master	SAMPLE	473490-009	Soil	303866	12/23/22 13:37	1.0	1	2:FE=310
083	met06_master	CCV				12/23/22 13:41	1.0	10 1	
084	met06_master	XCCB				12/23/22 13:44	1.0	1	
085	met06_master	CCB				12/23/22 13:48	1.0	1	
086	met06_master	BLANK	QC1034203	Wipe	303906	12/23/22 13:51	1.0	1	
087	met06_master	BS	QC1034204	Wipe	303906	12/23/22 13:54	1.0	1	
088	met06_master	BSD	QC1034205	Wipe	303906	12/23/22 13:58	1.0	1	
089	met06_master	SAMPLE	474637-001	Water	303192	12/23/22 14:01	1.0	1	
090	met06_master	SAMPLE	474637-002	Water	303192	12/23/22 14:04	1.0	1	
091	met06_master	SAMPLE	474637-003	Water	303192	12/23/22 14:07	1.0	1	
092	met06_master	SAMPLE	473490-010	Soil	303866	12/23/22 14:11	1.0	1	2:FE=300
093	met06_master	SAMPLE	475736-002	Wipe	303906	12/23/22 14:14	1.0	1	
094	met06_master	SAMPLE	475736-004	Wipe	303906	12/23/22 14:17	1.0	1	
095	met06_master	SAMPLE	475736-006	Wipe	303906	12/23/22 14:20	1.0	1	
096	met06_master	CCV				12/23/22 14:24	1.0	10 1	
097	met06_master	CCB				12/23/22 14:29	1.0	1	
098	met06_master	SAMPLE	474637-001	Water	303192	12/23/22 14:33	5.0	1	2:NA=2400
099	met06_master	SAMPLE	474637-002	Water	303192	12/23/22 14:36	5.0	1	2:SULFUR=2600
100	met06_master	SAMPLE	474637-003	Water	303192	12/23/22 14:39	5.0	1	2:NA=2400
101	met06_master	SAMPLE	475736-007	Wipe	303906	12/23/22 14:42	1.0	1	
102	met06_master	SAMPLE	475736-010	Wipe	303906	12/23/22 14:46	1.0	1	
103	met06_master	SAMPLE	475736-012	Wipe	303906	12/23/22 14:49	1.0	1	
104	met06_master	SAMPLE	475736-013	Wipe	303906	12/23/22 14:52	1.0	1	

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
105	met06_master	SAMPLE	475736-015	Wipe	303906	12/23/22 14:55	1.0	1	
106	met06_master	SAMPLE	475736-017	Wipe	303906	12/23/22 14:58	1.0	1	
107	met06_master	SAMPLE	475736-019	Wipe	303906	12/23/22 15:02	1.0	1	
108	met06_master	CCV				12/23/22 15:05	1.0	10 1	
109	met06_master	CCB				12/23/22 15:08	1.0	1	
110	met06_master	SAMPLE	475736-021	Wipe	303906	12/23/22 15:12	1.0	1	
111	met06_master	SAMPLE	475736-023	Wipe	303906	12/23/22 15:15	1.0	1	
112	met06_master	SAMPLE	475736-025	Wipe	303906	12/23/22 15:18	1.0	1	
113	met06_master	SAMPLE	475736-027	Wipe	303906	12/23/22 15:21	1.0	1	
114	met06_master	SAMPLE	475736-029	Wipe	303906	12/23/22 15:25	1.0	1	1:FE=190
115	met06_master	SAMPLE	475736-031	Wipe	303906	12/23/22 15:28	1.0	1	
116	met06_master	SAMPLE	475736-033	Wipe	303906	12/23/22 15:31	1.0	1	
117	met06_master	SAMPLE	475736-035	Wipe	303906	12/23/22 15:34	1.0	1	
118	met06_master	SAMPLE	475736-037	Wipe	303906	12/23/22 15:38	1.0	1	
119	met06_master	SAMPLE	475736-039	Wipe	303906	12/23/22 15:41	1.0	1	
120	met06_master	CCV				12/23/22 15:44	1.0	10 1	
121	met06_master	CCB				12/23/22 15:47	1.0	1	
122	met06_master	BLANK	QC1034333	WET Leachate	303944	12/23/22 15:51	1.0	1	
123	met06_master	BS	QC1034334	WET Leachate	303944	12/23/22 15:54	1.0	1	
124	met06_master	BSD	QC1034335	WET Leachate	303944	12/23/22 15:57	1.0	1	
125	met06_master	SAMPLE	474542-003	WET Leachate	303944	12/23/22 16:00	1.0	1	
126	met06_master	SAMPLE	474542-007	WET Leachate	303944	12/23/22 16:04	1.0	1	
127	met06_master	SAMPLE	474734-001	WET Leachate	303944	12/23/22 16:07	1.0	1	
128	met06_master	SAMPLE	475016-004	WET Leachate	303944	12/23/22 16:10	1.0	1	
129	met06_master	SAMPLE	475199-001	WET Leachate	303944	12/23/22 16:13	1.0	1	
130	met06_master	SAMPLE	475199-002	WET Leachate	303944	12/23/22 16:17	1.0	1	

Enthalpy Sequence Summary for Sequence 482514607

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
131	met06_master	SAMPLE	475620-001	WET Leachate	303944	12/23/22 16:20	1.0	1	
132	met06_master	CCV				12/23/22 16:24	1.0	10 1	
133	met06_master	XICB				12/23/22 16:27	1.0	1	
134	met06_master	CCB				12/23/22 16:32	1.0	1	
135	met06_master	SAMPLE	475621-001	WET Leachate	303944	12/23/22 16:35	1.0	1	
136	met06_master	BLANK	QC1034233	Soil	303917	12/23/22 16:38	1.0	1	
137	met06_master	LCS	QC1034234	Soil	303917	12/23/22 16:42	1.0	1	
138	met06_master	SAMPLE	474594-001	Miscell.	303917	12/23/22 16:45	1.0	1	1:P=79
139	met06_master	SAMPLE	474902-010	Soil	303917	12/23/22 16:48	1.0	1	
140	met06_master	SAMPLE	474922-001	Miscell.	303917	12/23/22 16:52	1.0	1	
141	met06_master	SAMPLE	475086-002	Soil	303917	12/23/22 16:55	1.0	1	1:P=11
142	met06_master	MSS	475318-001	Soil	303917	12/23/22 16:58	1.0	1	4:ALASAL2O3=410
143	met06_master	MS	QC1034235	Soil	303917	12/23/22 17:01	1.0	1	4:ALASAL2O3=470
144	met06_master	MSD	QC1034236	Soil	303917	12/23/22 17:04	1.0	1	4:ALASAL2O3=490
145	met06_master	CCV				12/23/22 17:08	1.0	10 1	
146	met06_master	XCCB				12/23/22 17:11	1.0	1	
147	met06_master	CCB				12/23/22 17:16	1.0	1	
148	met06_master	PDS	QC1034377	Soil	303917	12/23/22 17:19	1.0	1	4:ALASAL2O3=400
149	met06_master	SAMPLE	475367-001	Soil	303917	12/23/22 17:22	1.0	1	2:FE=230
150	met06_master	BLANK	QC1034212	Wipe	303908	12/23/22 17:25	1.0	1	
151	met06_master	BS	QC1034213	Wipe	303908	12/23/22 17:29	1.0	1	
152	met06_master	BSD	QC1034214	Wipe	303908	12/23/22 17:32	1.0	1	
153	met06_master	SAMPLE	475736-041	Wipe	303908	12/23/22 17:35	1.0	1	
154	met06_master	SAMPLE	475736-043	Wipe	303908	12/23/22 17:39	1.0	1	
155	met06_master	SAMPLE	475736-046	Wipe	303908	12/23/22 17:42	1.0	1	
156	met06_master	SAMPLE	475736-048	Wipe	303908	12/23/22 17:45	1.0	1	

Enthalpy Sequence Summary for Sequence 482514607

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
157	met06_master	SAMPLE	475736-050	Wipe	303908	12/23/22 17:48	1.0	1	
158	met06_master	CCV				12/23/22 17:52	1.0	10 1	
159	met06_master	CCB				12/23/22 17:57	1.0	1	
160	met06_master	SAMPLE	475736-052	Wipe	303908	12/23/22 18:01	1.0	1	1:FE=400
161	met06_master	SAMPLE	475736-054	Wipe	303908	12/23/22 18:04	1.0	1	
162	met06_master	SAMPLE	475736-056	Wipe	303908	12/23/22 18:07	1.0	1	
163	met06_master	SAMPLE	475736-058	Wipe	303908	12/23/22 18:11	1.0	1	
164	met06_master	SAMPLE	475743-003	Wipe	303908	12/23/22 18:14	1.0	1	
165	met06_master	SAMPLE	475743-005	Wipe	303908	12/23/22 18:17	1.0	1	
166	met06_master	SAMPLE	475743-006	Wipe	303908	12/23/22 18:20	1.0	1	
167	met06_master	SAMPLE	475743-008	Wipe	303908	12/23/22 18:24	1.0	1	
168	met06_master	SAMPLE	475743-009	Wipe	303908	12/23/22 18:27	1.0	1	
169	met06_master	SAMPLE	475743-012	Wipe	303908	12/23/22 18:30	1.0	1	
170	met06_master	CCV				12/23/22 18:33	1.0	10 1	
171	met06_master	CCB				12/23/22 18:37	1.0	1	
172	met06_master	SAMPLE	475743-014	Wipe	303908	12/23/22 18:40	1.0	1	
173	met06_master	SAMPLE	475744-002	Wipe	303908	12/23/22 18:43	1.0	1	
174	met06_master	SAMPLE	475744-004	Wipe	303908	12/23/22 18:46	1.0	1	
175	met06_master	BLANK	QC1034240	Soil	303919	12/23/22 18:50	1.0	1	
176	met06_master	BS	QC1034241	Soil	303919	12/23/22 18:53	1.0	1	
177	met06_master	BSD	QC1034242	Soil	303919	12/23/22 18:56	1.0	1	
178	met06_master	SAMPLE	473490-011	Soil	303919	12/23/22 18:59	1.0	1	2:FE=270
179	met06_master	SAMPLE	473490-012	Soil	303919	12/23/22 19:03	1.0	1	2:FE=270
180	met06_master	SAMPLE	473490-013	Soil	303919	12/23/22 19:06	1.0	1	3:FE=290
181	met06_master	SAMPLE	473490-014	Soil	303919	12/23/22 19:09	1.0	1	3:FE=280
182	met06_master	CCV				12/23/22 19:13	1.0	10 1	

Enthalpy Sequence Summary for Sequence 482514607

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
183	met06_master	CCB				12/23/22 19:16	1.0	1	
184	met06_master	SAMPLE	473490-015	Soil	303919	12/23/22 19:19	1.0	1	3:FE=310
185	met06_master	SAMPLE	473490-016	Soil	303919	12/23/22 19:22	1.0	1	3:FE=290
186	met06_master	SAMPLE	473490-017	Soil	303919	12/23/22 19:25	1.0	1	3:FE=300
187	met06_master	SAMPLE	473490-018	Soil	303919	12/23/22 19:29	1.0	1	3:FE=310
188	met06_master	SAMPLE	473490-019	Soil	303919	12/23/22 19:32	1.0	1	3:FE=320
189	met06_master	SAMPLE	473490-020	Soil	303919	12/23/22 19:35	1.0	1	3:FE=320
190	met06_master	BLANK	QC1033847	Soil	303811	12/23/22 19:38	1.0	1	
191	met06_master	LCS	QC1033848	Soil	303811	12/23/22 19:42	1.0	1	
192	met06_master	MSS	475180-012	Soil	303811	12/23/22 19:45	1.0	1	3:FEASFE2O3=270
193	met06_master	MS	QC1033849	Soil	303811	12/23/22 19:48	1.0	1	3:ALASAL2O3=360
194	met06_master	CCV				12/23/22 19:52	1.0	10 1	
195	met06_master	CCB				12/23/22 19:55	1.0	1	
196	met06_master	MSD	QC1033850	Soil	303811	12/23/22 19:58	1.0	1	3:ALASAL2O3=380
197	met06_master	PDS	QC1033851	Soil	303811	12/23/22 20:01	1.0	1	3:FEASFE2O3=270
198	met06_master	SAMPLE	475180-013	Soil	303811	12/23/22 20:05	1.0	1	1:FE=200
199	met06_master	SAMPLE	475180-014	Soil	303811	12/23/22 20:08	1.0	1	1:FE=160
200	met06_master	SAMPLE	475180-015	Soil	303811	12/23/22 20:11	1.0	1	1:FE=280
201	met06_master	SAMPLE	475180-016	Soil	303811	12/23/22 20:14	1.0	1	1:FE=170
202	met06_master	SAMPLE	475180-017	Soil	303811	12/23/22 20:18	1.0	1	1:FE=230
203	met06_master	SAMPLE	475180-018	Soil	303811	12/23/22 20:21	1.0	1	2:FE=230
204	met06_master	SAMPLE	475180-019	Soil	303811	12/23/22 20:24	1.0	1	
205	met06_master	MSS	475180-020	Soil	303811	12/23/22 20:27	1.0	1	2:ALASAL2O3=220
206	met06_master	CCV				12/23/22 20:31	1.0	10 1	
207	met06_master	CCB				12/23/22 20:34	1.0	1	
208	met06_master	MS	QC1034318	Soil	303811	12/23/22 20:37	1.0	1	3:ALASAL2O3=320

Instrument: MET06 Begun: 12/23/22 08:47
Method: EPA 6010B

#	File	Type	Sample ID	Matrix	Batch	Analyzed	IDF	Stds Used	
209	met06_master	MSD	QC1034319	Soil	303811	12/23/22 20:40	1.0	1	3:ALASAL2O3=310
210	met06_master	PDS	QC1034392	Soil	303811	12/23/22 20:44	1.0	1	2:ALASAL2O3=220
211	met06_master	SAMPLE	475180-021	Soil	303811	12/23/22 20:47	1.0	1	1:FE=220
212	met06_master	SAMPLE	475180-022	Soil	303811	12/23/22 20:50	1.0	1	
213	met06_master	SAMPLE	475180-023	Soil	303811	12/23/22 20:53	1.0	1	1:FE=180
214	met06_master	SAMPLE	475180-024	Soil	303811	12/23/22 20:57	1.0	1	1:FE=230
215	met06_master	SAMPLE	475180-025	Soil	303811	12/23/22 21:00	1.0	1	1:FE=200
216	met06_master	SAMPLE	475180-026	Soil	303811	12/23/22 21:03	1.0	1	2:FE=240
217	met06_master	SAMPLE	475180-027	Soil	303811	12/23/22 21:06	1.0	1	1:FE=290
218	met06_master	CCV				12/23/22 21:10	1.0	10 1	
219	met06_master	CCB				12/23/22 21:13	1.0	1	
220	met06_master	SAMPLE	475180-028	Soil	303811	12/23/22 21:16	1.0	1	2:FE=320
221	met06_master	SAMPLE	475180-029	Soil	303811	12/23/22 21:19	1.0	1	1:FE=220
222	met06_master	SAMPLE	475180-030	Soil	303811	12/23/22 21:23	1.0	1	1:FE=190
223	met06_master	SAMPLE	475180-031	Soil	303811	12/23/22 21:26	1.0	1	1:FE=170
224	met06_master	BLANK	QC1034374	WET Leachate	303958	12/23/22 21:29	1.0	1	
225	met06_master	BS	QC1034375	WET Leachate	303958	12/23/22 21:33	1.0	1	
226	met06_master	BSD	QC1034376	WET Leachate	303958	12/23/22 21:36	1.0	1	
227	met06_master	SAMPLE	469333-013	WET Leachate	303958	12/23/22 21:39	1.0	1	
228	met06_master	SAMPLE	469333-027	WET Leachate	303958	12/23/22 21:42	1.0	1	
229	met06_master	SAMPLE	469333-029	WET Leachate	303958	12/23/22 21:46	1.0	1	
230	met06_master	CCV				12/23/22 21:49	1.0	10 1	
231	met06_master	CCB				12/23/22 21:52	1.0	1	
232	met06_master	SAMPLE	469333-031	WET Leachate	303958	12/23/22 21:55	1.0	1	
233	met06_master	CCV				12/23/22 21:59	1.0	10 1	
234	met06_master	CCB				12/23/22 22:02	1.0	1	

Enthalpy Sequence Summary for Sequence 482514607

Instrument:	MET06	Begun:	12/23/22 08:47
Method:	EPA 6010B		

SBW 12/27/22 : I verified that the vials loaded on the instrument matched the sequence data entry, for runs 001 through 234.

Standards Used:

1=S13369 2=S17470 3=S17469 4=S17466 5=S17429 6=S17316 7=S17333 8=S17334 9=S17210 10=S17413 11=S17318 12=S17207 13=S17208

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	475743-003	Client ID:	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-L-LA
Seqnum:	482514607164	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	303908	Time:	23-DEC-2022 18:14
Cal:	482514607001	Caldate:	23-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.126	56	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	919101	953302	3.72

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 475743-003,303908			Sample Type: Unknown Sample
Measure Date: 2022-12-23 18:14:22	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	32625.10000000	5240.62000000	3419.37000000	7541.39000000	7882.94000000	25779.20000000	6744.57000000
Int RSD	*0.65678573*	*3.06421759*	*1.18239617*	*1.32980790*	*0.74505197*	*2.04850422*	*0.73763042*
Int SD	*214.27700000*	*160.58400000*	*40.43050000*	*100.28600000*	*58.73200000*	*528.08800000*	*49.75000000*
RelInt Mean	0.00003683	0.02770140	0.00008647	0.00254099	0.00301930	0.14883900	0.00217332
RelInt RSD	*6.03115091*	*2.83413474*	*61.51920108*	*3.49590120*	*1.60282516*	*1.84330048*	*2.45289235*
RelInt SD	*0.00000222*	*0.00078509*	*0.00005319*	*0.00008883*	*0.00004839*	*0.00274355*	*0.00005331*
Conc Mean	<0.00041721[mg/l]	2.32334000[mg/l]	0.00957016[mg/l]	0.01267710[mg/l]	0.00877493[mg/l]	12.19060000[mg/l]	0.01289050[mg/l]
Conc RSD	*21.32687449*	*3.11209294*	*29.84662743*	*8.33542372*	*1.69412178*	*1.84442111*	*2.72082541*
Conc SD	*0.00008898[mg/l]*	*0.07230450[mg/l]*	*0.00285637[mg/l]*	*0.00105669[mg/l]*	*0.00014866[mg/l]*	*0.22484600[mg/l]*	*0.00035073[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	13311.80000000	2262470	25316800	3369.55000000	4293.39000000	778832	3933.43000000
Int RSD	*0.31109692*	*1.09955049*	*0.87257473*	*9.02586399*	*3.90330252*	*0.89678262*	*1.53711900*
Int SD	*41.41260000*	*24877.00000000*	*220908*	*304.13100000*	*167.58400000*	*6984.43000000*	*60.46150000*
RelInt Mean	0.00888091	0.08021130	26.72840000	0.02002220	0.02188280	0.81557900	0.00018505
RelInt RSD	*0.69730805*	*0.40803602*	*0.73258781*	*9.16962172*	*4.20700733*	*0.75036876*	*41.72783866*
RelInt SD	*0.00006193*	*0.00032729*	*0.19580900*	*0.00183596*	*0.00092061*	*0.00611985*	*0.00007722*
Conc Mean	0.06221270[mg/l]	2.42646000[mg/l]	87.18660000[mg/l]	1.98241000[mg/l]	4.64013000[mg/l]	0.48521800[mg/l]	0.00076561[mg/l]
Conc RSD	*0.70099353*	*0.40888043*	*0.73255638*	*8.90703739*	*4.10714786*	*0.75046680*	*74.02078337*
Conc SD	*0.00043611[mg/l]*	*0.00992132[mg/l]*	*0.63869100[mg/l]*	*0.17657400[mg/l]*	*0.19057700[mg/l]*	*0.00364140[mg/l]*	*0.00056671[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	81501.60000000	13718.30000000	37589.70000000	3935.26000000	3487.63000000	8094.36000000	3222.47000000
Int RSD	*1.11560264*	*0.47502387*	*0.42481584*	*0.41981216*	*0.29906269*	*0.71779610*	*1.71696245*
Int SD	*909.23400000*	*65.16520000*	*159.68700000*	*16.52070000*	*10.43020000*	*58.10100000*	*55.32860000*
RelInt Mean	0.45053300	0.00911802	0.03441830	0.00022784	0.00026353	0.00444070	0.01756430
RelInt RSD	*0.88062362*	*1.01095523*	*0.32048939*	*9.17259540*	*9.64546865*	*1.07735042*	*2.99508093*
RelInt SD	*0.00396750*	*0.00009218*	*0.00011031*	*0.00002090*	*0.00002542*	*0.00004784*	*0.00052607*
Conc Mean	6.27762000[mg/l]	0.08939380[mg/l]	1.12594000[mg/l]	0.01405500[mg/l]	0.01820500[mg/l]	0.07962240[mg/l]	0.01558440[mg/l]
Conc RSD	*0.89078823*	*1.03154917*	*0.31885980*	*8.02433298*	*9.19428728*	*1.09566780*	*2.89516440*
Conc SD	*0.05592030[mg/l]*	*0.00092214[mg/l]*	*0.00359017[mg/l]*	*0.00112782[mg/l]*	*0.00167382[mg/l]*	*0.00087240[mg/l]*	*0.00045119[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	592680	3082.38000000	9038.48000000	953302	27818900	173284	823157
Int RSD	*7.55775461*	*0.46641556*	*1.15010488*	*0.20673197*	*1.42456388*	*0.32193567*	*0.26253801*
Int SD	*44793.30000000*	*14.37670000*	*103.95200000*	*1970.78000000*	*396298*	*557.86300000*	*2161.10000000*
RelInt Mean	0.02008870	-0.00049465	0.00007076	---	---	---	0.86550500
RelInt RSD	*7.76784959*	*4.00184372*	*5.13147073*	---	---	---	*0.46558021*
RelInt SD	*0.00156046*	*0.00001980*	*0.00000363*	---	---	---	*0.00402962*
Conc Mean	0.18581500[mg/l]	<-0.01966640[mg/l]	0.00738136[mg/l]	946862	27766700	173020	3.54144000[mg/l]
Conc RSD	*7.76648817*	*4.50441870*	*8.96970206*	---	---	---	*0.46573710*
Conc SD	*0.01443130[mg/l]*	*0.00088586[mg/l]*	*0.00066209[mg/l]*	*1974.43000000*	*395849*	*559.96800000*	*0.01649380[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	33.13200000	2176.43000000	291152	17077.30000000	5018.30000000	37937.60000000	
Int RSD	*328.96595436*	*7.65685090*	*0.48234943*	*0.35837808*	*0.51890481*	*0.44506505*	
Int SD	*108.99300000*	*166.64600000*	*1404.37000000*	*61.20130000*	*26.04020000*	*168.84700000*	
RelInt Mean	-0.00062628	0.00176312	0.30138500	0.01434700	-0.00009891	0.03627780	
RelInt RSD	*66.91059182*	*7.80956486*	*0.38204290*	*0.33038684*	*51.20034778*	*0.26155252*	
RelInt SD	*0.00041905*	*0.00013769*	*0.00115142*	*0.00004740*	*0.00005064*	*0.00009489*	
Conc Mean	<0.00135432[mg/l]	<0.00176971[mg/l]	4.64754000[mg/l]	0.50657000[mg/l]	<-0.00080720[mg/l]	3.50860000[mg/l]	
Conc RSD	*132.93460925*	*14.86910285*	*0.38709296*	*0.34952721*	*23.99851834*	*0.26129453*	
Conc SD	*0.00180036[mg/l]*	*0.00026314[mg/l]*	*0.01799030[mg/l]*	*0.00177060[mg/l]*	*0.00019372[mg/l]*	*0.00916778[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	475743-005	Client ID:	ARCH-C3W-DG-2 TO 2.5-221221-L-FB
Seqnum:	482514607165	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	303908	Time:	23-DEC-2022 18:17
Cal:	482514607001	Caldate:	23-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.025	51	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	919101	945995	2.93

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 475743-005,303908	Sample Type: Unknown Sample		
Measure Date: 2022-12-23 18:17:38	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	31876.80000000	10316.90000000	4013.42000000	8152.73000000	8889.37000000	27144.00000000	7962.06000000
Int RSD	*1.10699945*	*3.73524024*	*0.45083246*	*1.46442971*	*0.46395076*	*1.82820513*	*0.84781953*
Int SD	*352.87600000*	*385.36100000*	*18.09380000*	*119.39100000*	*41.24230000*	*496.24800000*	*67.50390000*
RelInt Mean	0.00001562	0.05711710	0.00060424	0.00285842	0.00395112	0.15666900	0.00336761
RelInt RSD	*43.19398379*	*3.66595993*	*5.74723867*	*4.79366223*	*1.41845603*	*1.61995034*	*1.63226739*
RelInt SD	*0.00000675*	*0.00209389*	*0.00003473*	*0.00013702*	*0.00005604*	*0.00253796*	*0.00005497*
Conc Mean	<-0.00043255[mg/l]	5.03231000[mg/l]	0.03738850[mg/l]	0.01645300[mg/l]	0.01159570[mg/l]	12.83230000[mg/l]	0.01996040[mg/l]
Conc RSD	*62.46578446*	*3.83185853*	*4.98626583*	*9.90664317*	*1.44380244*	*1.62097208*	*1.78952326*
Conc SD	*0.00027020[mg/l]*	*0.19283100[mg/l]*	*0.00186429[mg/l]*	*0.00162994[mg/l]*	*0.00016742[mg/l]*	*0.20800800[mg/l]*	*0.00035720[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	11387.00000000	850828	36187100	4301.40000000	6039.77000000	1038820	4179.57000000
Int RSD	*2.13455695*	*1.81083603*	*0.87390534*	*8.14964895*	*3.58089795*	*0.45217747*	*1.47733858*
Int SD	*243.06200000*	*15407.10000000*	*316241*	*350.54900000*	*216.27800000*	*4697.31000000*	*61.74640000*
RelInt Mean	0.00659506	0.02975320	38.51110000	0.02534920	0.03190910	1.09821000	0.00026582
RelInt RSD	*3.25323803*	*2.11841415*	*0.78826105*	*7.90447036*	*3.14552902*	*0.32091585*	*52.71931112*
RelInt SD	*0.00021455*	*0.00063030*	*0.30356800*	*0.00200372*	*0.00100371*	*0.00352433*	*0.00014014*
Conc Mean	0.04611660[mg/l]	0.89678700[mg/l]	>125.62100000[mg/l]	2.49474000[mg/l]	6.71568000[mg/l]	0.65340600[mg/l]	<0.00135839[mg/l]
Conc RSD	*3.27597871*	*2.13069547*	*0.78805534*	*7.72457250*	*3.09393837*	*0.32078065*	*75.71389660*
Conc SD	*0.00151077[mg/l]*	*0.01910780[mg/l]*	*0.98996300[mg/l]*	*0.19270800[mg/l]*	*0.20777900[mg/l]*	*0.00209600[mg/l]*	*0.00102849[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	87435.90000000	37279.60000000	34548.60000000	4230.47000000	3602.06000000	10676.70000000	3926.15000000
Int RSD	*0.53386424*	*0.38445691*	*0.48320627*	*0.23764499*	*0.90612316*	*0.70694971*	*8.12386180*
Int SD	*466.78900000*	*143.32400000*	*166.94100000*	*10.05350000*	*32.63910000*	*75.47890000*	*318.95500000*
RelInt Mean	0.48469800	0.03414930	0.03135650	0.00047909	0.00015953	0.00714912	0.02151910
RelInt RSD	*1.19628098*	*0.75470361*	*0.65162885*	*7.67050032*	*42.19526108*	*1.52329238*	*7.37154435*
RelInt SD	*0.00579835*	*0.00025773*	*0.00020433*	*0.00003675*	*0.00006731*	*0.00010890*	*0.00158629*
Conc Mean	6.75918000[mg/l]	0.33979700[mg/l]	1.02534000[mg/l]	0.02773180[mg/l]	0.01135660[mg/l]	0.12901100[mg/l]	0.01897650[mg/l]
Conc RSD	*1.20915555*	*0.75863236*	*0.64928219*	*7.18622664*	*39.03104802*	*1.53916333*	*7.16965721*
Conc SD	*0.08172900[mg/l]*	*0.00257781[mg/l]*	*0.00665735[mg/l]*	*0.00199287[mg/l]*	*0.00443260[mg/l]*	*0.00198569[mg/l]*	*0.00136055[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	1121530	3198.92000000	10642.20000000	945995	27576900	173541	410330
Int RSD	*3.34701702*	*0.33592587*	*1.91557197*	*0.30215910*	*0.28087457*	*0.38876289*	*0.53843736*
Int SD	*37537.80000000*	*10.74600000*	*203.85900000*	*2858.41000000*	*77456.50000000*	*674.66300000*	*2209.37000000*
RelInt Mean	0.03946620	-0.00051389	0.00011803	---	---	---	0.43292000
RelInt RSD	*3.68168205*	*2.06653175*	*0.66965889*	---	---	---	*0.38158320*
RelInt SD	*0.00145302*	*0.00001062*	*0.00000079*	---	---	---	*0.00165195*
Conc Mean	0.36502400[mg/l]	<-0.02101540[mg/l]	0.01599920[mg/l]	939402	27524300	173287	1.77048000[mg/l]
Conc RSD	*3.68145656*	*2.45672697*	*0.89985749*	---	---	---	*0.38203877*
Conc SD	*0.01343820[mg/l]*	*0.00051629[mg/l]*	*0.00014397[mg/l]*	*2857.56000000*	*77757.10000000*	*668.96700000*	*0.00676392[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-58.52540000	2182.39000000	570375	19060.60000000	5118.51000000	41716.20000000	
Int RSD	*214.57862740*	*7.37695829*	*0.74796231*	*0.27879133*	*0.89022782*	*0.16663982*	
Int SD	*125.58300000*	*160.99400000*	*4266.19000000*	*53.13930000*	*45.56640000*	*69.51580000*	
RelInt Mean	-0.00102709	0.00219391	0.60012800	0.01649820	-0.00028075	0.04050770	
RelInt RSD	*87.46419496*	*16.65683642*	*0.75433241*	*0.17495363*	*13.06895532*	*0.28715528*	
RelInt SD	*0.00089834*	*0.00036544*	*0.00452696*	*0.00002886*	*0.00003669*	*0.00011632*	
Conc Mean	<-0.00036763[mg/l]	<0.00259295[mg/l]	9.31292000[mg/l]	0.58691200[mg/l]	<-0.00161593[mg/l]	3.91721000[mg/l]	
Conc RSD	*1049.82414528*	*26.93287568*	*0.75938481*	*0.18391684*	*8.56732655*	*0.28696189*	
Conc SD	*0.00385950[mg/l]*	*0.00069836[mg/l]*	*0.07072090[mg/l]*	*0.00107943[mg/l]*	*0.00013844[mg/l]*	*0.01124090[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	475743-006	Client ID:	ARCH-C3W-DG-2 TO 2.5-221221-L-DUP-FB
Seqnum:	482514607166	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	303908	Time:	23-DEC-2022 18:20
Cal:	482514607001	Caldate:	23-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	1.100	55	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	919101	960216	4.47

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 475743-006,303908			Sample Type: Unknown Sample
Measure Date: 2022-12-23 18:20:54	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	31998.30000000	8670.11000000	3704.87000000	7964.02000000	8294.05000000	22805.50000000	7441.31000000
Int RSD	*0.81997169*	*3.86517587*	*0.38868300*	*0.70305574*	*1.00096937*	*2.72144439*	*0.53862559*
Int SD	*262.37700000*	*335.11500000*	*14.40020000*	*55.99150000*	*83.02090000*	*620.63900000*	*40.08080000*
RelInt Mean	0.00001634	0.04709730	0.00038678	0.00276605	0.00334945	0.12931500	0.00282805
RelInt RSD	*42.68207746*	*5.61552361*	*2.29730128*	*1.01450082*	*2.30047023*	*2.48009125*	*2.17556267*
RelInt SD	*0.00000697*	*0.00264476*	*0.00000889*	*0.00002806*	*0.00007705*	*0.00320713*	*0.00006153*
Conc Mean	<-0.00040366[mg/l]	4.10956000[mg/l]	0.02571690[mg/l]	0.01535410[mg/l]	0.00977488[mg/l]	10.59060000[mg/l]	0.01672420[mg/l]
Conc RSD	*69.19875439*	*5.92664421*	*1.85221780*	*2.17420103*	*2.39367644*	*2.48152135*	*2.34662346*
Conc SD	*0.00027933[mg/l]*	*0.24355900[mg/l]*	*0.00047633[mg/l]*	*0.00033383[mg/l]*	*0.00023398[mg/l]*	*0.26280800[mg/l]*	*0.00039245[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	10461.80000000	635788	33092400	3210.31000000	5283.91000000	910110	4011.51000000
Int RSD	*1.18917395*	*1.47346443*	*0.98828734*	*11.70413449*	*4.36059660*	*0.18371735*	*0.69575048*
Int SD	*124.40900000*	*9368.11000000*	*327048*	*375.73900000*	*230.41000000*	*1672.03000000*	*27.91010000*
RelInt Mean	0.00561858	0.02182430	34.68760000	0.01866530	0.02728290	0.94700400	0.00019388
RelInt RSD	*2.43116588*	*1.82720637*	*0.97696872*	*10.22678446*	*5.00328044*	*0.15958856*	*35.16213386*
RelInt SD	*0.00013660*	*0.00039877*	*0.33888700*	*0.00190886*	*0.00136504*	*0.00151131*	*0.00006817*
Conc Mean	0.03924060[mg/l]	0.65641800[mg/l]	>113.14900000[mg/l]	1.85191000[mg/l]	5.75802000[mg/l]	0.56342600[mg/l]	0.00083042[mg/l]
Conc RSD	*2.45121634*	*1.84164663*	*0.97725124*	*9.91311673*	*4.90753766*	*0.15968983*	*60.25001716*
Conc SD	*0.00096187[mg/l]*	*0.01208890[mg/l]*	*1.10575000[mg/l]*	*0.18358200[mg/l]*	*0.28257700[mg/l]*	*0.00089973[mg/l]*	*0.00050033[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	93332.20000000	29811.60000000	37112.10000000	4086.77000000	3515.56000000	9329.59000000	3195.98000000
Int RSD	*1.04626056*	*0.75281770*	*0.03098396*	*0.58905688*	*0.44140052*	*1.79808545*	*3.44770618*
Int SD	*976.49800000*	*224.42700000*	*11.49880000*	*24.07340000*	*15.51770000*	*167.75400000*	*110.18800000*
RelInt Mean	0.51025000	0.02583570	0.03363530	0.00037473	0.00013412	0.00571727	0.01667180
RelInt RSD	*0.42068006*	*0.92251807*	*0.09113134*	*10.00037361*	*14.13876918*	*2.78493057*	*7.74619417*
RelInt SD	*0.00214652*	*0.00023834*	*0.00003065*	*0.00003747*	*0.00001896*	*0.00015922*	*0.00129143*
Conc Mean	7.11931000[mg/l]	0.25663200[mg/l]	1.10000000[mg/l]	0.02213030[mg/l]	0.00968350[mg/l]	0.10290100[mg/l]	0.01481890[mg/l]
Conc RSD	*0.42498922*	*0.92894105*	*0.09272909*	*9.17434468*	*12.89554397*	*2.82175100*	*7.47504876*
Conc SD	*0.03025630[mg/l]*	*0.00238396[mg/l]*	*0.00102002[mg/l]*	*0.00203031[mg/l]*	*0.00124874[mg/l]*	*0.00290361[mg/l]*	*0.00110772[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	959323	3079.17000000	10088.80000000	960216	27758300	176115	358253
Int RSD	*2.21277922*	*0.62541529*	*1.26182499*	*0.03298060*	*0.75711409*	*0.76180337*	*0.40775932*
Int SD	*21227.70000000*	*19.25760000*	*127.30300000*	*316.68500000*	*210162*	*1341.65000000*	*1460.81000000*
RelInt Mean	0.03336210	-0.00049915	0.00010127	---	---	---	0.37189600
RelInt RSD	*3.06191757*	*1.86790865*	*3.06007821*	---	---	---	*0.37579861*
RelInt SD	*0.00102152*	*0.00000932*	*0.00000310*	---	---	---	*0.00139758*
Conc Mean	0.30857100[mg/l]	<-0.02018580[mg/l]	0.01294360[mg/l]	953742	27705500	175927	1.52065000[mg/l]
Conc RSD	*3.06168434*	*2.04605218*	*4.36581786*	---	---	---	*0.37632197*
Conc SD	*0.00944747[mg/l]*	*0.00041301[mg/l]*	*0.00056509[mg/l]*	*293.09100000*	*210017*	*1322.75000000*	*0.00572254[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-103.37400000	2320.31000000	468707	17851.70000000	4982.09000000	40383.70000000	
Int RSD	*47.73956701*	*9.15886239*	*1.02646429*	*0.41591165*	*0.92227559*	*0.26557992*	
Int SD	*49.35030000*	*212.51400000*	*4811.11000000*	*74.24730000*	*45.94860000*	*107.25100000*	
RelInt Mean	-0.00106338	0.00242778	0.48480900	0.01506240	-0.00031136	0.03857060	
RelInt RSD	*25.57702797*	*20.49044806*	*0.98941233*	*0.56538068*	*20.27364087*	*0.25454413*	
RelInt SD	*0.00027198*	*0.00049746*	*0.00479676*	*0.00008516*	*0.00006312*	*0.00009818*	
Conc Mean	<-0.00052353[mg/l]	<0.00303988[mg/l]	7.51202000[mg/l]	0.53328800[mg/l]	<-0.00169258[mg/l]	3.73008000[mg/l]	
Conc RSD	*223.19723109*	*31.27301078*	*0.99736289*	*0.59614130*	*14.59245649*	*0.25424977*	
Conc SD	*0.00116850[mg/l]*	*0.00095066[mg/l]*	*0.07492210[mg/l]*	*0.00317915[mg/l]*	*0.00024699[mg/l]*	*0.00948372[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	475743-008	Client ID:	ARCH-C4W-DG-2 TO 2.5-221221-L-FB
Seqnum:	482514607167	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	303908	Time:	23-DEC-2022 18:24
Cal:	482514607001	Caldate:	23-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.8944	45	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	919101	956962	4.12

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 475743-008,303908			Sample Type: Unknown Sample
Measure Date: 2022-12-23 18:24:10	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	31409.90000000	6076.06000000	3333.19000000	7581.81000000	7942.75000000	23460.70000000	6665.95000000
Int RSD	*0.95423417*	*2.94317370*	*0.26122603*	*1.73031242*	*0.67777281*	*0.09060770*	*0.40371890*
Int SD	*299.72400000*	*178.82900000*	*8.70716000*	*131.18900000*	*53.83380000*	*21.25720000*	*26.91170000*
RelInt Mean	0.00001914	0.03229910	0.00012468	0.00256454	0.00311246	0.13323400	0.00211652
RelInt RSD	*12.75922065*	*3.11086067*	*15.05325719*	*5.26967799*	*1.90461564*	*0.22216551*	*1.95206282*
RelInt SD	*0.00000244*	*0.00100478*	*0.00001877*	*0.00013514*	*0.00005928*	*0.00029600*	*0.00004132*
Conc Mean	<-0.00029152[mg/l]	2.74676000[mg/l]	0.01162920[mg/l]	0.01295720[mg/l]	0.00905042[mg/l]	10.91170000[mg/l]	0.01236720[mg/l]
Conc RSD	*33.55182409*	*3.36871077*	*8.66955595*	*12.40661563*	*1.99659242*	*0.22254827*	*2.05119995*
Conc SD	*0.00009781[mg/l]*	*0.09253040[mg/l]*	*0.00100820[mg/l]*	*0.00160755[mg/l]*	*0.00018070[mg/l]*	*0.02428380[mg/l]*	*0.00025368[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	12242.70000000	443009	25939100	3464.00000000	4478.49000000	987647	4086.95000000
Int RSD	*1.16305227*	*1.98959389*	*0.53277870*	*5.08112009*	*3.91522589*	*0.16229179*	*0.94699226*
Int SD	*142.38900000*	*8814.08000000*	*138198*	*176.01000000*	*175.34300000*	*1602.87000000*	*38.70310000*
RelInt Mean	0.00772986	0.01485550	27.27760000	0.02001660	0.02216270	1.03202000	0.00043665
RelInt RSD	*2.09950762*	*1.40621992*	*0.31114211*	*4.48702077*	*5.26393445*	*0.21286312*	*11.17661204*
RelInt SD	*0.00016229*	*0.00020890*	*0.08487210*	*0.00089815*	*0.00116663*	*0.00219679*	*0.00004880*
Conc Mean	0.05410740[mg/l]	0.44515400[mg/l]	88.97810000[mg/l]	1.98187000[mg/l]	4.69809000[mg/l]	0.61401900[mg/l]	0.00261213[mg/l]
Conc RSD	*2.11205861*	*1.42295925*	*0.31128221*	*4.35863604*	*5.14045069*	*0.21283380*	*13.71179842*
Conc SD	*0.00114278[mg/l]*	*0.00633436[mg/l]*	*0.27697300[mg/l]*	*0.08638250[mg/l]*	*0.24150300[mg/l]*	*0.00130684[mg/l]*	*0.00035817[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	86792.00000000	20972.30000000	30922.90000000	3872.60000000	3377.75000000	7586.66000000	3126.91000000
Int RSD	*0.29583717*	*0.74361420*	*0.45113169*	*1.03980788*	*0.54475909*	*0.59852952*	*1.31581657*
Int SD	*256.76300000*	*155.95300000*	*139.50300000*	*40.26760000*	*18.40060000*	*45.40840000*	*41.14440000*
RelInt Mean	0.47399800	0.01675830	0.02733530	0.00024472	0.00020538	0.00409177	0.01657590
RelInt RSD	*0.85950363*	*0.61740749*	*0.17136523*	*14.41698914*	*14.47343691*	*1.22870543*	*1.82651319*
RelInt SD	*0.00407403*	*0.00010347*	*0.00004684*	*0.00003528*	*0.00002973*	*0.00005028*	*0.00030276*
Conc Mean	6.60836000[mg/l]	0.16582400[mg/l]	0.89438700[mg/l]	0.01501480[mg/l]	0.01437580[mg/l]	0.07325950[mg/l]	0.01473650[mg/l]
Conc RSD	*0.86892058*	*0.62430046*	*0.17003378*	*12.70812798*	*13.61579877*	*1.25133396*	*1.76248770*
Conc SD	*0.05742140[mg/l]*	*0.00103524[mg/l]*	*0.00152076[mg/l]*	*0.00190810[mg/l]*	*0.00195738[mg/l]*	*0.00091672[mg/l]*	*0.00025973[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	894889	3002.36000000	9302.79000000	956962	27841400	176060	309030
Int RSD	*1.36298468*	*0.22460265*	*0.64389393*	*0.30862458*	*0.83657431*	*0.56619334*	*0.24726726*
Int SD	*12197.20000000*	*6.74338000*	*59.90010000*	*2953.42000000*	*232914*	*996.84000000*	*764.13000000*
RelInt Mean	0.03095160	-0.00045706	0.00008393	---	---	---	0.32146000
RelInt RSD	*0.77034467*	*2.50121429*	*5.23634830*	---	---	---	*0.29232906*
RelInt SD	*0.00023843*	*0.00001143*	*0.00000439*	---	---	---	*0.00093972*
Conc Mean	0.28627700[mg/l]	<-0.01817670[mg/l]	0.00978154[mg/l]	950620	27790100	175767	1.31416000[mg/l]
Conc RSD	*0.77011077*	*2.89072824*	*8.19121529*	---	---	---	*0.29284334*
Conc SD	*0.00220465[mg/l]*	*0.00052544[mg/l]*	*0.00080123[mg/l]*	*2910.78000000*	*232425*	*1037.19000000*	*0.00384843[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-7.29771000	2168.79000000	353258	16712.90000000	4894.57000000	39217.20000000	
Int RSD	*568.77705472*	*1.58787158*	*0.32346614*	*1.08873984*	*0.60441265*	*0.69485073*	
Int SD	*41.50770000*	*34.43760000*	*1142.67000000*	*181.96000000*	*29.58340000*	*272.50100000*	
RelInt Mean	-0.00054792	0.00168924	0.36533700	0.01404110	-0.00021654	0.03758220	
RelInt RSD	*105.61120013*	*23.45605124*	*0.36562954*	*1.27697260*	*21.40659564*	*1.02297364*	
RelInt SD	*0.00057867*	*0.00039623*	*0.00133578*	*0.00017930*	*0.00004635*	*0.00038446*	
Conc Mean	<0.00169099[mg/l]	<0.00162853[mg/l]	5.64623000[mg/l]	0.49514500[mg/l]	<-0.00127237[mg/l]	3.63460000[mg/l]	
Conc RSD	*147.02097588*	*46.49616525*	*0.36966259*	*1.35260580*	*14.08128139*	*1.02175480*	
Conc SD	*0.00248611[mg/l]*	*0.00075720[mg/l]*	*0.02087200[mg/l]*	*0.00669736[mg/l]*	*0.00017917[mg/l]*	*0.03713670[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	475743-009	Client ID:	ARCH-C4W-DG-2 TO 2.5-221221-L-DUP-FB
Seqnum:	482514607168	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	303908	Time:	23-DEC-2022 18:27
Cal:	482514607001	Caldate:	23-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	0.6641	33	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	919101	957567	4.19

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 475743-009,303908			Sample Type: Unknown Sample
Measure Date: 2022-12-23 18:27:26	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	31606.90000000	5543.86000000	3704.25000000	8097.85000000	7843.82000000	19414.60000000	7297.55000000
Int RSD	*0.64721627*	*5.77296324*	*0.51248431*	*0.91932797*	*0.89836585*	*3.07916722*	*0.76307528*
Int SD	*204.56500000*	*320.04500000*	*18.98370000*	*74.44580000*	*70.46620000*	*597.80800000*	*55.68580000*
RelInt Mean	0.00001743	0.02905470	0.00020367	0.00286932	0.00285899	0.11018700	0.00266030
RelInt RSD	*36.86514404*	*6.65286511*	*14.05403946*	*3.68585588*	*1.90731342*	*2.97486092*	*1.47056347*
RelInt SD	*0.00000642*	*0.00193297*	*0.00002862*	*0.00010576*	*0.00005453*	*0.00327791*	*0.00003912*
Conc Mean	<-0.00036013[mg/l]	2.44798000[mg/l]	0.01585750[mg/l]	0.01658270[mg/l]	0.00827827[mg/l]	9.02302000[mg/l]	0.01583640[mg/l]
Conc RSD	*71.44836587*	*7.27166889*	*9.69408797*	*7.58652089*	*2.00039380*	*2.97730693*	*1.47790533*
Conc SD	*0.00025731[mg/l]*	*0.17800900[mg/l]*	*0.00153724[mg/l]*	*0.00125805[mg/l]*	*0.00016560[mg/l]*	*0.26864300[mg/l]*	*0.00023405[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	14543.40000000	505408	34611200	2572.80000000	4300.47000000	1162860	4422.57000000
Int RSD	*0.58813964*	*1.77627580*	*0.45440204*	*8.45642879*	*6.03085244*	*0.76680082*	*0.49630645*
Int SD	*85.53550000*	*8977.44000000*	*157274*	*217.56700000*	*259.35500000*	*8916.82000000*	*21.94950000*
RelInt Mean	0.00988562	0.01703700	36.38570000	0.01519840	0.02122980	1.21539000	0.00059390
RelInt RSD	*1.66456934*	*1.66621471*	*0.92713346*	*10.22061533*	*7.73219719*	*0.56059948*	*4.88489645*
RelInt SD	*0.00016455*	*0.00028387*	*0.33734400*	*0.00155337*	*0.00164153*	*0.00681347*	*0.00002901*
Conc Mean	0.06928730[mg/l]	0.51128700[mg/l]	>118.68900000[mg/l]	1.51848000[mg/l]	4.50497000[mg/l]	0.72313900[mg/l]	0.00376619[mg/l]
Conc RSD	*1.67213905*	*1.68331289*	*0.92706991*	*9.83891787*	*7.54309130*	*0.56049667*	*5.65340570*
Conc SD	*0.00115858[mg/l]*	*0.00860656[mg/l]*	*1.10033000[mg/l]*	*0.14940200[mg/l]*	*0.33981400[mg/l]*	*0.00405317[mg/l]*	*0.00021292[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	87044.20000000	26143.50000000	24281.90000000	4035.62000000	3683.88000000	8686.17000000	2716.25000000
Int RSD	*1.37448561*	*1.26451317*	*1.32929878*	*0.72330893*	*0.54296557*	*1.12199278*	*3.22204878*
Int SD	*1196.41000000*	*330.58800000*	*322.77900000*	*29.19000000*	*20.00220000*	*97.45820000*	*87.51890000*
RelInt Mean	0.47498800	0.02204470	0.02028740	0.00032736	0.00023908	0.00473849	0.01393530
RelInt RSD	*1.50757072*	*0.98243115*	*1.07545570*	*7.60590657*	*14.47967643*	*0.99744222*	*4.03064161*
RelInt SD	*0.00716078*	*0.00021657*	*0.00021818*	*0.00002490*	*0.00003462*	*0.00004726*	*0.00056168*
Conc Mean	6.62230000[mg/l]	0.21870800[mg/l]	0.66412400[mg/l]	0.01939350[mg/l]	0.01659500[mg/l]	0.08505260[mg/l]	0.01247170[mg/l]
Conc RSD	*1.52410794*	*0.99069078*	*1.06862423*	*6.97383144*	*13.73666767*	*1.01330941*	*3.86291364*
Conc SD	*0.10093100[mg/l]*	*0.00216672[mg/l]*	*0.00709699[mg/l]*	*0.00135247[mg/l]*	*0.00227960[mg/l]*	*0.00086185[mg/l]*	*0.00048177[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	703498	3196.53000000	9333.73000000	957567	27918800	176194	280593
Int RSD	*1.02875061*	*0.97930881*	*0.82317359*	*0.55825545*	*1.36106495*	*0.28287342*	*0.64503391*
Int SD	*7237.24000000*	*31.30390000*	*76.83280000*	*5345.67000000*	*379993*	*498.40600000*	*1809.92000000*
RelInt Mean	0.02401800	-0.00058335	0.00007346	---	---	---	0.29132900
RelInt RSD	*2.41047131*	*4.22306905*	*5.70546226*	---	---	---	*0.52570462*
RelInt SD	*0.00057895*	*0.00002464*	*0.00000419*	---	---	---	*0.00153153*
Conc Mean	0.22215400[mg/l]	<-0.02389140[mg/l]	0.00787171[mg/l]	951002	27866800	175911	1.19080000[mg/l]
Conc RSD	*2.40998136*	*4.85069941*	*9.70822096*	---	---	---	*0.52648304*
Conc SD	*0.00535387[mg/l]*	*0.00115890[mg/l]*	*0.00076420[mg/l]*	*5341.19000000*	*379902*	*467.35000000*	*0.00626936[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-34.13420000	2185.94000000	322027	18267.60000000	5000.51000000	39762.80000000	
Int RSD	*235.42869029*	*7.30587299*	*0.74501206*	*1.38053165*	*0.54911599*	*0.46903387*	
Int SD	*80.36170000*	*159.70200000*	*2399.14000000*	*252.19000000*	*27.45860000*	*186.50100000*	
RelInt Mean	-0.00094046	0.00182532	0.33234400	0.01532380	-0.00032584	0.03788220	
RelInt RSD	*80.31114528*	*8.07305020*	*0.54832643*	*1.21993239*	*2.71093570*	*0.07991379*	
RelInt SD	*0.00075530*	*0.00014736*	*0.00182233*	*0.00018694*	*0.00000883*	*0.00003027*	
Conc Mean	<0.00000455[mg/l]	<0.00188857[mg/l]	5.13095000[mg/l]	0.54305000[mg/l]	<-0.00171306[mg/l]	3.66358000[mg/l]	
Conc RSD	*71369.59577009*	*14.91107028*	*0.55465752*	*1.28596998*	*2.12067879*	*0.07968026*	
Conc SD	*0.00324494[mg/l]*	*0.00028161[mg/l]*	*0.02845920[mg/l]*	*0.00698346[mg/l]*	*0.00003633[mg/l]*	*0.00291915[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	475743-012	Client ID:	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-L-LA
Seqnum:	482514607169	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	303908	Time:	23-DEC-2022 18:30
Cal:	482514607001	Caldate:	23-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.02 ft2 ⇨ 50.0 ml = 49.02 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	4.478	220	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	919101	972591	5.82

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 475743-012,303908			Sample Type: Unknown Sample
Measure Date: 2022-12-23 18:30:42	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	33625.90000000	5876.45000000	3091.63000000	7400.97000000	9347.85000000	21595.50000000	6155.62000000
Int RSD	*0.45213362*	*2.42352100*	*0.32581842*	*1.35991634*	*1.96826008*	*1.71248640*	*0.32044376*
Int SD	*152.03400000*	*142.41700000*	*10.07310000*	*100.64700000*	*183.99000000*	*369.82000000*	*19.72530000*
RelInt Mean	0.00009908	0.03138820	-0.00018970	0.00266348	0.00466657	0.12229600	0.00164659
RelInt RSD	*2.57611189*	*3.94508127*	*3.65024960*	*4.05882530*	*4.11205661*	*2.46382547*	*1.25893513*
RelInt SD	*0.00000255*	*0.00123829*	*0.00000692*	*0.00010811*	*0.00019189*	*0.00301316*	*0.00002073*
Conc Mean	0.00291041[mg/l]	2.66288000[mg/l]	<-0.00523584[mg/l]	0.01413410[mg/l]	0.01376910[mg/l]	10.01540000[mg/l]	0.00961105[mg/l]
Conc RSD	*3.51256352*	*4.28250616*	*7.09376146*	*9.09835080*	*4.22052276*	*2.46561296*	*1.18991161*
Conc SD	*0.00010223[mg/l]*	*0.11403800[mg/l]*	*0.00037142[mg/l]*	*0.00128597[mg/l]*	*0.00058113[mg/l]*	*0.24694100[mg/l]*	*0.00011436[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	9446.36000000	7646350	16824100	3095.68000000	4402.21000000	703032	3677.38000000
Int RSD	*1.33765810*	*1.25018342*	*0.42364644*	*8.84842749*	*5.28273299*	*0.32518861*	*0.56454867*
Int SD	*126.36000000*	*95593.40000000*	*71274.70000000*	*273.91900000*	*232.55700000*	*2286.18000000*	*20.76060000*
RelInt Mean	0.00501911	0.27122500	17.40370000	0.01819150	0.02210970	0.72122500	0.00004661
RelInt RSD	*2.75634525*	*0.47850309*	*0.31668266*	*7.61438034*	*6.36530573*	*0.47288017*	*58.53349295*
RelInt SD	*0.00013834*	*0.00129782*	*0.05511450*	*0.00138517*	*0.00140735*	*0.00341053*	*0.00002728*
Conc Mean	0.03501940[mg/l]	8.21718000[mg/l]	56.76950000[mg/l]	1.80634000[mg/l]	4.68712000[mg/l]	0.42907100[mg/l]	<-0.00025041[mg/l]
Conc RSD	*2.78169529*	*0.47885284*	*0.31676340*	*7.37507889*	*6.21562921*	*0.47299864*	*79.96621500*
Conc SD	*0.00097413[mg/l]*	*0.03934820[mg/l]*	*0.17982500[mg/l]*	*0.13321900[mg/l]*	*0.29133400[mg/l]*	*0.00202950[mg/l]*	*0.00020024[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	97881.80000000	15535.60000000	137441	3888.36000000	3401.58000000	11085.50000000	3317.77000000
Int RSD	*0.55692887*	*0.36357205*	*0.24836839*	*0.86632153*	*0.78823664*	*1.27841775*	*3.33594553*
Int SD	*545.13200000*	*56.48310000*	*341.36000000*	*33.68570000*	*26.81250000*	*141.71900000*	*110.67900000*
RelInt Mean	0.53728400	0.01102000	0.13698200	0.00018515	0.00028803	0.00745478	0.01752110
RelInt RSD	*0.88780980*	*0.59342468*	*0.23599670*	*26.17768104*	*11.44914454*	*2.06462163*	*4.99121630*
RelInt SD	*0.00477006*	*0.00006540*	*0.00032327*	*0.00004847*	*0.00003298*	*0.00015391*	*0.00087452*
Conc Mean	7.50036000[mg/l]	0.10842000[mg/l]	4.47763000[mg/l]	0.01190650[mg/l]	0.01981840[mg/l]	0.13458500[mg/l]	0.01554730[mg/l]
Conc RSD	*0.89645164*	*0.60320328*	*0.23586362*	*22.05442405*	*10.95703992*	*2.08540328*	*4.82446470*
Conc SD	*0.06723710[mg/l]*	*0.00065399[mg/l]*	*0.01056110[mg/l]*	*0.00262591[mg/l]*	*0.00217151[mg/l]*	*0.00280664[mg/l]*	*0.00075007[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	642565	3056.53000000	8912.48000000	972591	28070300	175933	2622680
Int RSD	*4.34332713*	*0.19737415*	*1.30769438*	*0.22581435*	*0.83666366*	*0.64682010*	*0.09804132*
Int SD	*27908.70000000*	*6.03280000*	*116.54800000*	*2196.25000000*	*234854*	*1137.97000000*	*2571.31000000*
RelInt Mean	0.02170740	-0.00047830	0.00007583	---	---	---	2.71004000
RelInt RSD	*4.01312456*	*7.75255857*	*4.15145122*	---	---	---	*0.32092036*
RelInt SD	*0.00087114*	*0.00003708*	*0.00000315*	---	---	---	*0.00869707*
Conc Mean	0.20078400[mg/l]	<-0.01894070[mg/l]	0.00830652[mg/l]	966280	28019000	175677	>11.09280000[mg/l]
Conc RSD	*4.01244123*	*9.00199042*	*6.90981301*	---	---	---	*0.32121827*
Conc SD	*0.00805634[mg/l]*	*0.00170504[mg/l]*	*0.00057397[mg/l]*	*2202.47000000*	*234939*	*1094.66000000*	*0.03563210[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-16.35400000	2069.62000000	324021	23787.50000000	5035.87000000	44022.40000000	
Int RSD	*560.39134157*	*7.45325229*	*0.56330917*	*0.57122438*	*1.16730178*	*0.82193156*	
Int SD	*91.64640000*	*154.25400000*	*1825.24000000*	*135.88000000*	*58.78380000*	*361.83400000*	
RelInt Mean	-0.00124929	0.00174989	0.32964000	0.02094030	0.00021032	0.04185030	
RelInt RSD	*23.35806738*	*19.92062358*	*0.52176010*	*0.88514014*	*22.72612295*	*1.15033584*	
RelInt SD	*0.00029181*	*0.00034859*	*0.00171993*	*0.00018535*	*0.00004780*	*0.00048142*	
Conc Mean	<-0.00132226[mg/l]	<0.00174442[mg/l]	5.08883000[mg/l]	0.75282000[mg/l]	0.00044989[mg/l]	4.04690000[mg/l]	
Conc RSD	*94.81418178*	*38.18776441*	*0.52775982*	*0.91952260*	*41.07818425*	*1.14917344*	
Conc SD	*0.00125369[mg/l]*	*0.00066615[mg/l]*	*0.02685680[mg/l]*	*0.00692235[mg/l]*	*0.00018481[mg/l]*	*0.04650590[mg/l]*	

ENTHALPY SAMPLE USER REPORT FOR EPA 6010B

Inst:	MET06	Lab ID:	475743-014	Client ID:	ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-L-LA
Seqnum:	482514607172	Matrix:	Wipe	Acct:	RINCON-BERK (JG)
File:	met06_master	Batch:	303908	Time:	23-DEC-2022 18:40
Cal:	482514607001	Caldate:	23-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.01 ft2 ⇨ 50.0 ml = 49.50 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Blank	Flags
Lead	A	2.038	100	0.25		**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	SAMPLE Abund	%Drift
Yttrium	A	919101	952664	3.65

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: 475743-014,303908			Sample Type: Unknown Sample
Measure Date: 2022-12-23 18:40:25	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	31330.80000000	4213.81000000	3280.35000000	7538.82000000	8066.80000000	20863.70000000	6064.62000000
Int RSD	*0.85818109*	*3.48520697*	*0.40801439*	*0.21876633*	*0.67624461*	*2.74558204*	*0.25540594*
Int SD	*268.87500000*	*146.86000000*	*13.38430000*	*16.49240000*	*54.55130000*	*572.83000000*	*15.48940000*
RelInt Mean	0.00004371	0.02202420	-0.00011736	0.00280697	0.00340086	0.12037400	0.00159559
RelInt RSD	*13.41803457*	*2.21618038*	*10.49113001*	*4.23713114*	*1.33874961*	*2.56254673*	*1.02532605*
RelInt SD	*0.00000587*	*0.00048810*	*0.00001231*	*0.00011894*	*0.00004553*	*0.00308464*	*0.00001636*
Conc Mean	<0.00069264[mg/l]	1.80053000[mg/l]	<-0.00137069[mg/l]	0.01584100[mg/l]	0.00989539[mg/l]	9.85782000[mg/l]	0.00938446[mg/l]
Conc RSD	*33.91578659*	*2.49662044*	*48.25438283*	*8.93125434*	*1.48905703*	*2.56432964*	*1.05916909*
Conc SD	*0.00023492[mg/l]*	*0.04495240[mg/l]*	*0.00066142[mg/l]*	*0.00141480[mg/l]*	*0.00014735[mg/l]*	*0.25278700[mg/l]*	*0.00009940[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	12330.90000000	2103590	19843600	3464.25000000	3914.19000000	729989	5049.47000000
Int RSD	*0.54612640*	*2.13527351*	*0.89977625*	*9.55364076*	*5.15764437*	*0.43042292*	*10.36130525*
Int SD	*67.34230000*	*44917.40000000*	*178548*	*330.96200000*	*201.88000000*	*3142.04000000*	*523.19100000*
RelInt Mean	0.00813721	0.07530170	20.95700000	0.02042300	0.01996840	0.76473500	0.00150474
RelInt RSD	*0.50611082*	*1.46392445*	*0.64179510*	*8.86769818*	*3.86839206*	*0.29281385*	*37.37748714*
RelInt SD	*0.00004118*	*0.00110236*	*0.13450100*	*0.00181105*	*0.00077246*	*0.00223925*	*0.00056243*
Conc Mean	0.05697580[mg/l]	2.27762000[mg/l]	68.36040000[mg/l]	2.02096000[mg/l]	4.24384000[mg/l]	0.45496200[mg/l]	0.01045090[mg/l]
Conc RSD	*0.50899856*	*1.46719383*	*0.64182187*	*8.61842887*	*3.76781406*	*0.29295414*	*39.49640701*
Conc SD	*0.00029001[mg/l]*	*0.03341710[mg/l]*	*0.43875200[mg/l]*	*0.17417500[mg/l]*	*0.15990000[mg/l]*	*0.00133283[mg/l]*	*0.00412773[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	87992.60000000	14208.50000000	63888.50000000	3908.64000000	3551.91000000	7951.11000000	3155.11000000
Int RSD	*0.67014954*	*0.60431925*	*0.65480642*	*0.61726074*	*0.36899584*	*0.64334288*	*8.69411843*
Int SD	*589.68200000*	*85.86470000*	*418.34600000*	*24.12650000*	*13.10640000*	*51.15290000*	*274.30900000*
RelInt Mean	0.48934700	0.00984571	0.06233620	0.00030681	0.00039030	0.00414034	0.01685030
RelInt RSD	*0.31503003*	*0.74354821*	*0.42711939*	*11.73376530*	*19.01042027*	*1.42587324*	*9.93501599*
RelInt SD	*0.00154159*	*0.00007321*	*0.00026625*	*0.00003600*	*0.00007420*	*0.00005904*	*0.00167408*
Conc Mean	6.82469000[mg/l]	0.09667330[mg/l]	2.03839000[mg/l]	0.01835470[mg/l]	0.02655250[mg/l]	0.07414530[mg/l]	0.01497190[mg/l]
Conc RSD	*0.31830603*	*0.75754009*	*0.42641202*	*10.61226825*	*18.40060258*	*1.45198684*	*9.59036595*
Conc SD	*0.02172340[mg/l]*	*0.00073234[mg/l]*	*0.00869194[mg/l]*	*0.00194785[mg/l]*	*0.00488582[mg/l]*	*0.00107658[mg/l]*	*0.00143586[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	477048	3088.50000000	8471.71000000	952664	27535800	173088	857589
Int RSD	*3.41156445*	*0.49827748*	*1.36467136*	*0.25996469*	*0.68811511*	*0.77639698*	*0.58597650*
Int SD	*16274.80000000*	*15.38930000*	*115.61100000*	*2476.59000000*	*189478*	*1343.85000000*	*5025.27000000*
RelInt Mean	0.01613490	-0.00053481	0.00006390	---	---	---	0.90229900
RelInt RSD	*3.06645222*	*5.54091274*	*7.65558880*	---	---	---	*0.34758101*
RelInt SD	*0.00049477*	*0.00002963*	*0.00000489*	---	---	---	*0.00313622*
Conc Mean	0.14924800[mg/l]	<-0.02146730[mg/l]	0.00612645[mg/l]	946494	27485500	172854	>3.69207000[mg/l]
Conc RSD	*3.06589703*	*6.46392420*	*14.53260861*	---	---	---	*0.34763425*
Conc SD	*0.00457579[mg/l]*	*0.00138763[mg/l]*	*0.00089033[mg/l]*	*2465.80000000*	*188953*	*1343.10000000*	*0.01283490[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-85.30240000	2113.62000000	260319	20941.60000000	4815.69000000	44036.70000000	
Int RSD	*89.92455077*	*11.55737550*	*0.82163807*	*0.15089630*	*0.70007829*	*0.91107871*	
Int SD	*76.70780000*	*244.27900000*	*2138.88000000*	*31.60010000*	*33.71360000*	*401.20900000*	
RelInt Mean	-0.00122410	0.00203291	0.26919000	0.01831040	-0.00004794	0.04267630	
RelInt RSD	*39.51196798*	*17.66428420*	*0.79787511*	*0.41786362*	*111.28417250*	*0.74621277*	
RelInt SD	*0.00048367*	*0.00035910*	*0.00214780*	*0.00007651*	*0.00005335*	*0.00031846*	
Conc Mean	<-0.00121406[mg/l]	<0.00228528[mg/l]	4.14455000[mg/l]	0.65459600[mg/l]	<-0.00056906[mg/l]	4.12669000[mg/l]	
Conc RSD	*171.15793289*	*30.02896800*	*0.81016516*	*0.43642949*	*36.15199696*	*0.74548852*	
Conc SD	*0.00207796[mg/l]*	*0.00068625[mg/l]*	*0.03357770[mg/l]*	*0.00285685[mg/l]*	*0.00020573[mg/l]*	*0.03076400[mg/l]*	

ENTHALPY BLANK USER REPORT FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06	Lab ID:	QC1034212		
Seqnum:	482514607150.2	Matrix:	Wipe		
File:	met06_master	Batch:	303908	Time:	23-DEC-2022 17:25
Cal:	482514607001	Caldate:	23-DEC-2022		
IDF:	1.0	Raw Units:	mg/l	Units:	ug/ft2

- 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Ch	Raw	Result	RL	Flags
Lead	A	-0.001512	ND	0.25	**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BLANK Abund	%Drift
Yttrium	A	919101	890380	-3.12

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: BLANK,QC1034212,303908			Sample Type: Unknown Sample
Measure Date: 2022-12-23 17:25:59	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	33834.80000000	829.14300000	2299.08000000	6192.51000000	5029.08000000	102.11700000	4688.32000000
Int RSD	*1.30233960*	*5.89643765*	*1.90300468*	*0.44775059*	*0.49601319*	*64.85707571*	*0.36351828*
Int SD	*440.64400000*	*48.88990000*	*43.75160000*	*27.72700000*	*24.94490000*	*66.23010000*	*17.04290000*
RelInt Mean	0.00002399	0.00332638	-0.00014165	0.00168537	0.00010829	0.00000131	-0.00001158
RelInt RSD	*42.94582628*	*9.03119908*	*35.99117543*	*0.90083483*	*21.73281865*	*37192.03065134*	*104.56786606*
RelInt SD	*0.00001030*	*0.00030041*	*0.00005098*	*0.00001518*	*0.00002353*	*0.00048536*	*0.00001211*
Conc Mean	<-0.00009739[mg/l]	0.07859480[mg/l]	<-0.00262540[mg/l]	0.00249931[mg/l]	<-0.00008648[mg/l]	<-0.00692957[mg/l]	<-0.00035998[mg/l]
Conc RSD	*423.63332248*	*35.20092932*	*104.28315685*	*7.22655453*	*90.64499455*	*574.00242728*	*17.82983960*
Conc SD	*0.00041258[mg/l]*	*0.02766610[mg/l]*	*0.00273785[mg/l]*	*0.00018061[mg/l]*	*0.00007839[mg/l]*	*0.03977590[mg/l]*	*0.00006418[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4697.42000000	35549.30000000	18858.00000000	-229.75500000	417.63000000	14895.80000000	4649.34000000
Int RSD	*0.45309553*	*0.71540930*	*21.71327818*	*31.60962765*	*11.53638388*	*1.05924489*	*8.26209742*
Int SD	*21.28380000*	*254.32300000*	*4094.69000000*	*72.62470000*	*48.17940000*	*157.78300000*	*384.13300000*
RelInt Mean	0.00017602	0.00019016	0.01496760	-0.00080136	-0.00093195	0.01045540	0.00176578
RelInt RSD	*17.72896936*	*2.01605473*	*31.81031027*	*33.17002803*	*28.91291028*	*0.84488398*	*24.61342863*
RelInt SD	*0.00003121*	*0.00000383*	*0.00476124*	*0.00026581*	*0.00026945*	*0.00008834*	*0.00043462*
Conc Mean	0.00091623[mg/l]	<0.00056379[mg/l]	0.04775220[mg/l]	<-0.02030630[mg/l]	<-0.08273100[mg/l]	0.00610938[mg/l]	0.01236670[mg/l]
Conc RSD	*23.98325313*	*20.61504952*	*32.52436537*	*125.89491931*	*67.42273150*	*0.86044247*	*25.79257199*
Conc SD	*0.00021974[mg/l]*	*0.00011623[mg/l]*	*0.01553110[mg/l]*	*0.02556460[mg/l]*	*0.05577950[mg/l]*	*0.00005257[mg/l]*	*0.00318969[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	6320.41000000	5264.03000000	4888.56000000	3490.52000000	2637.44000000	3955.09000000	142.88500000
Int RSD	*3.18773624*	*0.27418537*	*0.37767154*	*0.08621208*	*0.25103623*	*1.54688515*	*46.88770690*
Int SD	*201.47800000*	*14.43320000*	*18.46270000*	*3.00925000*	*6.62093000*	*61.18070000*	*66.99550000*
RelInt Mean	0.01635770	0.00031762	-0.00009551	0.00013906	0.00009168	0.00188339	-0.00088618
RelInt RSD	*2.33128741*	*2.89261382*	*34.26720595*	*7.25486671*	*37.88444297*	*3.91228052*	*7.43416947*
RelInt SD	*0.00038135*	*0.00000919*	*0.00003273*	*0.00001009*	*0.00003473*	*0.00007368*	*0.00006588*
Conc Mean	0.15799900[mg/l]	0.00135776[mg/l]	<-0.00151179[mg/l]	0.00961459[mg/l]	0.00688900[mg/l]	0.03298940[mg/l]	<-0.00024096[mg/l]
Conc RSD	*3.40195191*	*6.76932595*	*70.90072034*	*5.67668512*	*33.20089999*	*4.07279308*	*23.45065717*
Conc SD	*0.00537505[mg/l]*	*0.00009191[mg/l]*	*0.00107187[mg/l]*	*0.00054579[mg/l]*	*0.00228721[mg/l]*	*0.00134359[mg/l]*	*0.00005651[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	156045	2347.28000000	8014.95000000	890380	26185800	163488	3708.57000000
Int RSD	*19.54404178*	*0.41337591*	*0.86936288*	*0.82041825*	*1.37260653*	*0.54383441*	*0.73217709*
Int SD	*30497.50000000*	*9.70309000*	*69.67900000*	*7304.84000000*	*359428*	*889.10400000*	*27.15330000*
RelInt Mean	0.00457098	-0.00017870	0.00003286	---	---	---	0.00055539
RelInt RSD	*27.09615881*	*13.19858085*	*12.28257661*	---	---	---	*8.24533479*
RelInt SD	*0.00123856*	*0.00002359*	*0.00000404*	---	---	---	*0.00004579*
Conc Mean	0.04230170[mg/l]	<-0.00464048[mg/l]	<0.00046700[mg/l]	884182	26134000	163198	<0.00042912[mg/l]
Conc RSD	*27.07834437*	*24.43928214*	*157.41449752*	---	---	---	*43.71411260*
Conc SD	*0.01145460[mg/l]*	*0.00113410[mg/l]*	*0.00073513[mg/l]*	*7293.00000000*	*358803*	*919.47600000*	*0.00018759[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	80.74420000	2129.86000000	13130.70000000	3455.71000000	4833.17000000	3336.27000000	
Int RSD	*50.95139961*	*4.56963368*	*2.37630896*	*2.00271145*	*0.24912428*	*0.42955756*	
Int SD	*41.14030000*	*97.32680000*	*312.02600000*	*69.20790000*	*12.04060000*	*14.33120000*	
RelInt Mean	-0.00038950	0.00053580	0.00919858	0.00124212	0.00019431	0.00068539	
RelInt RSD	*92.39763079*	*17.65898041*	*4.42946629*	*7.04626767*	*31.61696894*	*1.03380537*	
RelInt SD	*0.00035989*	*0.00009462*	*0.00040745*	*0.00008752*	*0.00006143*	*0.00000709*	
Conc Mean	0.00237163[mg/l]	<-0.00057572[mg/l]	0.08430190[mg/l]	0.01712340[mg/l]	0.00037810[mg/l]	0.07039310[mg/l]	
Conc RSD	*65.19398051*	*31.40732583*	*7.46315326*	*19.09025077*	*61.07659634*	*0.97237371*	
Conc SD	*0.00154616[mg/l]*	*0.00018082[mg/l]*	*0.00629158[mg/l]*	*0.00326890[mg/l]*	*0.00023093[mg/l]*	*0.00068448[mg/l]*	

ENTHALPY SPIKE USER REPORT FOR 475743 METALS Wipe

EPA 6010B

Type:	BS	Type:	BSD
Inst:	MET06	Inst:	MET06
Seqnum:	482514607151.2	Seqnum:	482514607152.2
File:	met06_master	File:	met06_master
IDF:	1.0	IDF:	1.0
Lab ID:	QC1034213	Lab ID:	QC1034214
Matrix:	Wipe	Matrix:	Wipe
Batch:	303908	Batch:	303908
Time:	23-DEC-2022 17:29	Time:	23-DEC-2022 17:32
Cal:	482514607001	Cal:	482514607001
Units:	ug/ft2		

- BS: 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF
- BSD: 1.00 ft2 ⇨ 50.0 ml = 50.0 ml/ft2 PDF

Analyte	Spiked	BS Raw	BS Result	Ch	%Rec	BSD Raw	BSD Result	Ch	%Rec	Limits	RPD	Lim	Flags
Lead	100.0	2.096	104.8	A	105	2.069	103.5	A	103	80-120	1	20	**<a-** u **b***

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BS Abund	%Drift
Yttrium	A	919101	898310	-2.26

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	BSD Abund	%Drift
Yttrium	A	919101	908226	-1.18

-=low bias <=opening a=ICSA b=noncompliant u=use

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: BS,QC1034213,303908			Sample Type: Unknown Sample
Measure Date: 2022-12-23 17:29:15	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	631127	4027.39000000	35708.20000000	144309	631258	3957.61000000	317955
Int RSD	*1.93108519*	*1.99105624*	*0.49824410*	*0.77731812*	*0.54874552*	*0.69838615*	*0.45359563*
Int SD	*12187.60000000*	*80.18760000*	*177.91400000*	*1121.74000000*	*3464.00000000*	*27.63940000*	*1442.23000000*
RelInt Mean	0.02276150	0.02179680	0.03720260	0.15643000	0.70170100	0.02273540	0.35058400
RelInt RSD	*1.66586121*	*5.80828378*	*0.33369980*	*0.56655501*	*0.46936088*	*2.49580830*	*0.42289437*
RelInt SD	*0.00037917*	*0.00126602*	*0.00012415*	*0.00088626*	*0.00329351*	*0.00056743*	*0.00148260*
Conc Mean	0.91061100[mg/l]	1.77958000[mg/l]	2.00088000[mg/l]	1.84321000[mg/l]	2.11746000[mg/l]	1.85617000[mg/l]	2.16179000[mg/l]
Conc RSD	*1.66779228*	*6.55126491*	*0.33338931*	*0.57213231*	*0.47032671*	*2.50489449*	*0.42665384*
Conc SD	*0.01518710[mg/l]*	*0.11658500[mg/l]*	*0.00667072[mg/l]*	*0.01054560[mg/l]*	*0.00995898[mg/l]*	*0.04649510[mg/l]*	*0.00922336[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	271293	1779130	609213	23264.70000000	2021.22000000	3197560	267940
Int RSD	*0.60227872*	*2.26996903*	*0.46925952*	*2.66877286*	*3.46779173*	*0.38565656*	*0.46776890*
Int SD	*1633.94000000*	*40385.70000000*	*2858.79000000*	*620.88200000*	*70.09170000*	*12331.60000000*	*1253.34000000*
RelInt Mean	0.29840200	0.06658550	0.67642100	0.13787500	0.00847808	3.57755000	0.29667100
RelInt RSD	*0.47329441*	*1.94070781*	*0.43438923*	*2.62868540*	*2.03493008*	*0.19525346*	*0.28290160*
RelInt SD	*0.00141232*	*0.00129223*	*0.00293830*	*0.00362430*	*0.00017252*	*0.00698529*	*0.00083929*
Conc Mean	2.10091000[mg/l]	2.01339000[mg/l]	2.20540000[mg/l]	13.31700000[mg/l]	1.86524000[mg/l]	2.12880000[mg/l]	2.17670000[mg/l]
Conc RSD	*0.47334060*	*1.94557438*	*0.43470119*	*2.61742885*	*1.91476700*	*0.19529876*	*0.28286856*
Conc SD	*0.00994446[mg/l]*	*0.03917200[mg/l]*	*0.00958690[mg/l]*	*0.34856300[mg/l]*	*0.03571500[mg/l]*	*0.00415752[mg/l]*	*0.00615720[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	26816.00000000	195685	62402.30000000	36393.20000000	24351.00000000	3830.52000000	421234
Int RSD	*1.05357622*	*0.46731942*	*1.59580977*	*0.19743276*	*0.31824812*	*0.46012030*	*0.33125531*
Int SD	*282.52700000*	*914.47400000*	*995.82200000*	*71.85210000*	*77.49660000*	*17.62500000*	*1395.36000000*
RelInt Mean	0.13706300	0.21330600	0.06408950	0.03683300	0.02432390	0.00156754	2.48886000
RelInt RSD	*0.69056127*	*0.40496611*	*1.52969831*	*0.11985068*	*0.57767052*	*1.64585912*	*0.26653167*
RelInt SD	*0.00094650*	*0.00086382*	*0.00098038*	*0.00004414*	*0.00014051*	*0.00002580*	*0.00663360*
Conc Mean	1.85932000[mg/l]	2.13202000[mg/l]	2.09569000[mg/l]	1.98099000[mg/l]	1.60257000[mg/l]	0.02722970[mg/l]	2.13526000[mg/l]
Conc RSD	*0.71759568*	*0.40543334*	*1.52770687*	*0.11823533*	*0.57722096*	*1.72770174*	*0.26659376*
Conc SD	*0.01334240[mg/l]*	*0.00864392[mg/l]*	*0.03201600[mg/l]*	*0.00234223[mg/l]*	*0.00925037[mg/l]*	*0.00047045[mg/l]*	*0.00569247[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	6111090	40470.80000000	310205	898310	26223100	169378	461887
Int RSD	*2.66284738*	*0.23705363*	*2.45234925*	*0.29548597*	*0.39252796*	*0.09778897*	*0.48025599*
Int SD	*162729*	*95.93750000*	*7607.31000000*	*2654.38000000*	*102933*	*165.63300000*	*2218.24000000*
RelInt Mean	0.23173700	0.04228210	0.01155350	---	---	---	0.51375600
RelInt RSD	*2.33164751*	*0.09064971*	*2.14102220*	---	---	---	*0.45161322*
RelInt SD	*0.00540329*	*0.00003833*	*0.00024736*	---	---	---	*0.00232019*
Conc Mean	2.14320000[mg/l]	1.95902000[mg/l]	2.10014000[mg/l]	891983	26171000	169134	2.10037000[mg/l]
Conc RSD	*2.33165827*	*0.09064992*	*2.14736160*	---	---	---	*0.45205559*
Conc SD	*0.04997210[mg/l]*	*0.00177585[mg/l]*	*0.04509760[mg/l]*	*2660.25000000*	*102371*	*166.77200000*	*0.00949484[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	88841.80000000	154467	537097	4649.49000000	450084	3663.33000000	
Int RSD	*0.63814893*	*0.60123910*	*0.79160189*	*0.68935303*	*0.36796242*	*0.51344542*	
Int SD	*566.94300000*	*928.71600000*	*4251.67000000*	*32.05140000*	*1656.14000000*	*18.80920000*	
RelInt Mean	0.52398200	0.89494600	0.59563900	0.00240280	0.49817500	0.00091248	
RelInt RSD	*0.71736625*	*0.71204743*	*0.50079830*	*1.56678875*	*0.30045064*	*2.63217766*	
RelInt SD	*0.00375887*	*0.00637244*	*0.00298295*	*0.00003765*	*0.00149677*	*0.00002402*	
Conc Mean	2.25521000[mg/l]	1.70866000[mg/l]	9.19386000[mg/l]	0.06047280[mg/l]	1.93075000[mg/l]	0.09232980[mg/l]	
Conc RSD	*0.71628363*	*0.71265787*	*0.50599313*	*2.32497916*	*0.30282947*	*2.51290483*	
Conc SD	*0.01615370[mg/l]*	*0.01217690[mg/l]*	*0.04652030[mg/l]*	*0.00140598[mg/l]*	*0.00584688[mg/l]*	*0.00232016[mg/l]*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: BSD,QC1034214,303908			Sample Type: Unknown Sample
Measure Date: 2022-12-23 17:32:30	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	640893	4210.76000000	35590.40000000	145093	637087	4036.77000000	318822
Int RSD	*2.15839462*	*5.91118943*	*0.54289921*	*0.54668247*	*0.64795075*	*8.95941557*	*0.57731901*
Int SD	*13833.00000000*	*248.90600000*	*193.22000000*	*793.19800000*	*4128.01000000*	*361.67100000*	*1840.62000000*
RelInt Mean	0.02263860	0.02292970	0.03675440	0.15575800	0.70049600	0.02310840	0.34778800
RelInt RSD	*0.84217664*	*5.24398488*	*0.37177590*	*0.38907664*	*0.26411714*	*10.39782071*	*0.48884665*
RelInt SD	*0.00019066*	*0.00120243*	*0.00013664*	*0.00060602*	*0.00185013*	*0.00240277*	*0.00170015*
Conc Mean	0.90568900[mg/l]	1.88391000[mg/l]	1.97683000[mg/l]	1.83522000[mg/l]	2.11381000[mg/l]	1.88674000[mg/l]	2.14450000[mg/l]
Conc RSD	*0.84329720*	*5.87809396*	*0.37142445*	*0.39279269*	*0.26395229*	*10.43652014*	*0.48938680*
Conc SD	*0.00763765[mg/l]*	*0.11073800[mg/l]*	*0.00734243[mg/l]*	*0.00720861[mg/l]*	*0.00557945[mg/l]*	*0.19691000[mg/l]*	*0.01049490[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	272287	1828200	619484	23680.40000000	2052.30000000	3223270	270502
Int RSD	*0.48169395*	*2.26388251*	*0.54692454*	*5.89829564*	*4.63588169*	*0.12576049*	*0.74698154*
Int SD	*1311.59000000*	*41388.30000000*	*3388.11000000*	*1396.74000000*	*95.14220000*	*4053.60000000*	*2020.60000000*
RelInt Mean	0.29631100	0.06688770	0.68051300	0.13874800	0.00886720	3.56634000	0.29632900
RelInt RSD	*0.49010668*	*0.92445397*	*0.50836060*	*6.59884106*	*8.23365888*	*0.57479657*	*0.35679937*
RelInt SD	*0.00145224*	*0.00061835*	*0.00345946*	*0.00915576*	*0.00073010*	*0.02049920*	*0.00105730*
Conc Mean	2.08618000[mg/l]	2.02255000[mg/l]	2.21875000[mg/l]	13.40090000[mg/l]	1.94579000[mg/l]	2.12213000[mg/l]	2.17419000[mg/l]
Conc RSD	*0.49020219*	*0.92679044*	*0.50849803*	*6.57070048*	*7.76748776*	*0.57491294*	*0.35704883*
Conc SD	*0.01022650[mg/l]*	*0.01874480[mg/l]*	*0.01128230[mg/l]*	*0.88053300[mg/l]*	*0.15113900[mg/l]*	*0.01220040[mg/l]*	*0.00776292[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	27021.60000000	196710	62138.60000000	36594.70000000	24224.10000000	3657.32000000	426584
Int RSD	*3.66149303*	*0.72555030*	*0.73302585*	*0.80963637*	*1.04958698*	*0.56164623*	*0.25014300*
Int SD	*989.39400000*	*1427.23000000*	*455.49200000*	*296.28400000*	*254.25300000*	*20.54120000*	*1067.07000000*
RelInt Mean	0.13765700	0.21222400	0.06328550	0.03678500	0.02405340	0.00147856	2.49022000
RelInt RSD	*3.31377990*	*0.58093807*	*0.25178595*	*0.36028272*	*0.57217691*	*1.80246321*	*0.43310631*
RelInt SD	*0.00456165*	*0.00123289*	*0.00015934*	*0.00013253*	*0.00013763*	*0.00002665*	*0.01078530*
Conc Mean	1.86768000[mg/l]	2.12119000[mg/l]	2.06940000[mg/l]	1.97848000[mg/l]	1.58476000[mg/l]	0.02560710[mg/l]	2.13643000[mg/l]
Conc RSD	*3.44237771*	*0.58122563*	*0.25198608*	*0.36517832*	*0.57193455*	*1.89788770*	*0.43321242*
Conc SD	*0.06429260[mg/l]*	*0.01232890[mg/l]*	*0.00521460[mg/l]*	*0.00722498[mg/l]*	*0.00906379[mg/l]*	*0.00048599[mg/l]*	*0.00925528[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	6289830	40355.70000000	315572	908226	26855900	171454	457247
Int RSD	*2.64277413*	*0.14667098*	*2.72229792*	*0.62014961*	*1.38379276*	*0.65309646*	*0.36140860*
Int SD	*166226*	*59.19010000*	*8590.81000000*	*5632.36000000*	*371630*	*1119.76000000*	*1652.53000000*
RelInt Mean	0.23295400	0.04178710	0.01149260	---	---	---	0.50291600
RelInt RSD	*1.28270817*	*0.47524954*	*1.33833945*	---	---	---	*0.28636989*
RelInt SD	*0.00298812*	*0.00019859*	*0.00015381*	---	---	---	*0.00144020*
Conc Mean	2.15446000[mg/l]	1.93598000[mg/l]	2.08905000[mg/l]	902112	26804700	171185	2.05601000[mg/l]
Conc RSD	*1.28294329*	*0.47910464*	*1.34226562*	---	---	---	*0.28645094*
Conc SD	*0.02764050[mg/l]*	*0.00927537[mg/l]*	*0.02804060[mg/l]*	*5674.50000000*	*370827*	*1152.75000000*	*0.00588946[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	90047.20000000	159388	552665	4487.01000000	453151	3469.77000000	
Int RSD	*2.27852726*	*1.49644892*	*0.56410484*	*0.94627157*	*0.63160624*	*0.71085980*	
Int SD	*2051.75000000*	*2385.16000000*	*3117.61000000*	*42.45930000*	*2862.13000000*	*24.66520000*	
RelInt Mean	0.52512300	0.91348700	0.60638700	0.00230038	0.49621500	0.00080033	
RelInt RSD	*2.83752568*	*1.59465871*	*0.44458077*	*1.95584643*	*0.05451266*	*3.03428698*	
RelInt SD	*0.01490050*	*0.01456700*	*0.00269588*	*0.00004499*	*0.00027050*	*0.00002428*	
Conc Mean	2.26011000[mg/l]	1.74410000[mg/l]	9.36176000[mg/l]	0.05664780[mg/l]	1.92321000[mg/l]	0.08149610[mg/l]	
Conc RSD	*2.83251258*	*1.59597500*	*0.44814223*	*2.96638175*	*0.05611504*	*2.87853038*	
Conc SD	*0.06401790[mg/l]*	*0.02783540[mg/l]*	*0.04195400[mg/l]*	*0.00168039[mg/l]*	*0.00107921[mg/l]*	*0.00234589[mg/l]*	

ENTHALPY INITIAL CALIBRATION FOR 475743 METALS Wipe: EPA 6010B

Instrument:	MET06		
Calibration #:	482514607001	Date:	23-DEC-2022 08:47
Units:	mg/L	X Axis:	R

Level	File	Seqnum	Sample ID	Analyzed	Standards
L1	met06_master	482514607002	L1	23-DEC-2022 08:50	S17470, S13369 (100X)
L2	met06_master	482514607003	L2	23-DEC-2022 08:53	S17469, S13369 (100X)
L3	met06_master	482514607004	L3	23-DEC-2022 08:56	S17466, S13369 (100X)
L4	met06_master	482514607005	L4	23-DEC-2022 09:00	S17429, S13369 (100X)

Analyte	Ch	L1 RF	L2 RF	L3 RF	L4 RF	Type	a0	a1	a2	Avg RF	r^2	%RSD	n	Min r^2	Flags
Lead	A	0.0160	0.0320	0.0323	0.0306	WB1K	0.00163	32.6808		0.0277	1.000		5	0.995	

Instrument amount = a0 + (response × a1) + (response² × a2)
WB1K: Linear regression with ICALBLK weighting factor of 1000

Spiked Amounts / Drifts	Ch	L1	%D	L2	%D	L3	%D	L4	%D
Lead	A	0.0033	1	0.1000	6	1.0000	6	10.000	0

ENTHALPY 2ND SOURCE CALIBRATION SUMMARY FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06		
Calnum:	482514607001	Cal Date:	23-DEC-2022

- ICV 482514607010 (23-DEC-2022) stds: S17413, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max	Flags
Lead	A	1.000	1.019	mg/l	2	10	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICALBLK,CALBLANK			Sample Type: Calibration Sample
Measure Date: 2022-12-23 08:47:00	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	26237.10000000	644.52800000	1620.54000000	4886.43000000	3802.10000000	68.28340000	3581.41000000
Int RSD	*0.33938278*	*2.69122521*	*1.94936873*	*0.35630102*	*1.29928987*	*67.61409069*	*1.31656247*
Int SD	*89.04420000*	*17.34570000*	*31.59030000*	*17.41040000*	*49.40030000*	*46.16920000*	*47.15150000*
RelInt Mean	0.00002642	0.00247791	-0.00009316	0.00147665	0.00011674	0.00008284	0.00003287
RelInt RSD	*6.67282425*	*6.48849232*	*40.86066291*	*2.50233298*	*47.41915865*	*42.54896375*	*112.18371712*
RelInt SD	*0.00000176*	*0.00016078*	*0.00003806*	*0.00003695*	*0.00005536*	*0.00003525*	*0.00003687*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3486.38000000	29107.40000000	4582.76000000	-192.35100000	206.50300000	4393.31000000	2253.87000000
Int RSD	*0.46128936*	*0.47971650*	*0.59561923*	*61.80836076*	*34.85760497*	*0.40814329*	*0.62610976*
Int SD	*16.08230000*	*139.63300000*	*27.29580000*	*118.88900000*	*71.98200000*	*17.93100000*	*14.11170000*
RelInt Mean	0.00004409	0.00017214	0.00030830	-0.00059022	-0.00053537	0.00009910	0.00008652
RelInt RSD	*32.04509368*	*2.67528552*	*4.25471459*	*101.71392556*	*31.37587089*	*64.77698478*	*18.46322958*
RelInt SD	*0.00001413*	*0.00000461*	*0.00001312*	*0.00060034*	*0.00016798*	*0.00006420*	*0.00001597*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	3782.45000000	3972.15000000	3680.46000000	2437.18000000	1780.75000000	1686.86000000	58.45570000
Int RSD	*1.09040966*	*0.78771446*	*0.45318792*	*1.62898924*	*1.86200197*	*0.30906359*	*130.94103740*
Int SD	*41.24420000*	*31.28920000*	*16.67940000*	*39.70140000*	*33.15760000*	*5.21347000*	*76.54250000*
RelInt Mean	0.00530349	0.00017863	-0.00005157	-0.00003929	-0.00001293	0.00007296	-0.00060525
RelInt RSD	*9.78730987*	*8.85587764*	*66.83570865*	*80.71343862*	*241.71428571*	*6.10966662*	*93.72818040*
RelInt SD	*0.00051907*	*0.00001582*	*0.00003446*	*0.00003172*	*0.00003126*	*0.00000446*	*0.00056729*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	28199.50000000	1590.26000000	5920.22000000	919101	30464900	186284	2756.92000000
Int RSD	*0.95191759*	*0.95581855*	*1.15021908*	*0.35105391*	*0.12808117*	*0.51863391*	*2.20682138*
Int SD	*268.43600000*	*15.20000000*	*68.09550000*	*3226.54000000*	*39019.80000000*	*966.13200000*	*60.84030000*
RelInt Mean	-0.00000302	-0.00008408	0.00003033	---	---	---	0.00045138
RelInt RSD	*112.79434981*	*25.49224832*	*10.23613350*	---	---	---	*17.22459153*
RelInt SD	*0.00000341*	*0.00002143*	*0.00000310*	---	---	---	*0.00007775*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-14.17230000	1611.07000000	7176.11000000	2468.93000000	3619.40000000	2072.74000000	
Int RSD	*717.06074526*	*7.20483902*	*0.24660715*	*1.56869980*	*0.22130049*	*0.53684977*	
Int SD	*101.62400000*	*116.07500000*	*17.69680000*	*38.73010000*	*8.00975000*	*11.12750000*	
RelInt Mean	-0.00094151	0.00088780	0.00378256	0.00078364	0.00009912	-0.00004332	
RelInt RSD	*38.67947875*	*32.33844071*	*1.53282169*	*4.98186672*	*39.61839100*	*29.10315278*	
RelInt SD	*0.00036417*	*0.00028710*	*0.00005798*	*0.00003904*	*0.00003927*	*0.00001261*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L1,S17470			Sample Type: Calibration Sample
Measure Date: 2022-12-23 08:50:17	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28112.10000000	717.78500000	1746.28000000	5245.53000000	4976.01000000	166.16400000	3961.73000000
Int RSD	*1.01380544*	*10.83495754*	*0.96857892*	*0.41666714*	*0.84249228*	*62.48164464*	*0.66633264*
Int SD	*285.00200000*	*77.77170000*	*16.91410000*	*21.85640000*	*41.92250000*	*103.82200000*	*26.39830000*
RelInt Mean	0.00002135	0.00273778	-0.00001702	0.00168675	0.00123072	0.00085730	0.00027713
RelInt RSD	*27.79307018*	*12.83390192*	*101.56474017*	*1.07944864*	*4.32068220*	*74.99720051*	*9.66495868*
RelInt SD	*0.00000593*	*0.00035136*	*0.00001729*	*0.00001821*	*0.00005318*	*0.00064295*	*0.00002678*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4094.05000000	33637.30000000	7316.79000000	-39.08720000	407.17000000	10321.00000000	2710.53000000
Int RSD	*0.16583676*	*0.72048886*	*0.45843874*	*43.94482081*	*15.50917307*	*0.58341634*	*0.77942690*
Int SD	*6.78944000*	*242.35300000*	*33.54300000*	*17.17680000*	*63.14870000*	*60.21440000*	*21.12660000*
RelInt Mean	0.00049154	0.00027501	0.00307963	0.00027294	-0.00011818	0.00637520	0.00048133
RelInt RSD	*3.63120729*	*1.28678334*	*1.00523764*	*14.05423823*	*169.59656129*	*1.20688606*	*7.58632869*
RelInt SD	*0.00001785*	*0.00000354*	*0.00003096*	*0.00003836*	*0.00020044*	*0.00007694*	*0.00003652*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	10477.90000000	4498.70000000	3939.04000000	2676.74000000	1995.64000000	1854.40000000	3032.52000000
Int RSD	*4.80976150*	*0.61969902*	*0.20541223*	*0.46273826*	*0.55857269*	*0.83991048*	*3.70091541*
Int SD	*503.96200000*	*27.87840000*	*8.09127000*	*12.38630000*	*11.14710000*	*15.57530000*	*112.23100000*
RelInt Mean	0.03989710	0.00059288	0.00005343	0.00011659	0.00015538	0.00019114	0.01497850
RelInt RSD	*4.27462146*	*1.69571715*	*73.41032998*	*3.21385746*	*16.25695052*	*14.68549066*	*5.00802484*
RelInt SD	*0.00170545*	*0.00001005*	*0.00003922*	*0.00000375*	*0.00002526*	*0.00002807*	*0.00075013*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	40837.20000000	1871.73000000	6487.18000000	916321	30079100	186533	5178.27000000
Int RSD	*0.12422326*	*0.31273100*	*0.27618626*	*0.14048243*	*0.67541582*	*0.41677451*	*0.21807862*
Int SD	*50.72930000*	*5.85348000*	*17.91670000*	*1287.27000000*	*203159*	*777.42200000*	*11.29270000*
RelInt Mean	0.00035077	0.00017770	0.00003512	---	---	---	0.00300732
RelInt RSD	*1.91268427*	*2.54270118*	*3.42275573*	---	---	---	*0.07661872*
RelInt SD	*0.00000671*	*0.00000452*	*0.00000120*	---	---	---	*0.00000230*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	4.35309000	2018.61000000	12698.20000000	27685.80000000	4151.85000000	11895.00000000	
Int RSD	*1496.34397635*	*7.26390932*	*0.43925911*	*0.27172305*	*0.56121488*	*0.85034048*	
Int SD	*65.13720000*	*146.63000000*	*55.77800000*	*75.22870000*	*23.30080000*	*101.14800000*	
RelInt Mean	-0.00070885	0.00206414	0.00964289	0.02837760	0.00051958	0.01065060	
RelInt RSD	*41.45670158*	*37.15416590*	*0.75514498*	*0.45432313*	*1.65750996*	*0.96423676*	
RelInt SD	*0.00029386*	*0.00076691*	*0.00007282*	*0.00012893*	*0.00000861*	*0.00010270*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L2,S17469			Sample Type: Calibration Sample
Measure Date: 2022-12-23 08:53:34	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28775.30000000	850.32400000	3409.31000000	12279.10000000	34318.70000000	115.49800000	11222.10000000
Int RSD	*0.05493461*	*10.31972519*	*0.56030106*	*0.99574073*	*0.67762474*	*103.10914475*	*0.83632386*
Int SD	*15.80760000*	*87.75110000*	*19.10240000*	*122.26800000*	*232.55200000*	*119.08900000*	*93.85310000*
RelInt Mean	0.00002528	0.00320127	0.00178371	0.00943553	0.03364100	0.00019893	0.00824364
RelInt RSD	*16.44090127*	*15.54417466*	*0.07893772*	*1.32415455*	*0.91646206*	*285.70767877*	*0.85400503*
RelInt SD	*0.00000416*	*0.00049761*	*0.00000141*	*0.00012494*	*0.00030831*	*0.00056834*	*0.00007040*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	16834.20000000	122941	61944.20000000	-153.40800000	324.77000000	163577	13862.10000000
Int RSD	*0.37703603*	*0.93387072*	*0.43088780*	*61.84925167*	*25.56369123*	*0.34998197*	*2.21892065*
Int SD	*63.47100000*	*1148.11000000*	*266.91000000*	*94.88170000*	*83.02320000*	*572.49000000*	*307.58900000*
RelInt Mean	0.01453240	0.00324236	0.06341910	-0.00047496	-0.00075172	0.17576000	0.01276950
RelInt RSD	*0.62964548*	*0.43567648*	*0.69003975*	*94.79054158*	*38.46929504*	*0.17397929*	*2.41021966*
RelInt SD	*0.00009150*	*0.00001413*	*0.00043762*	*0.00045022*	*0.00028918*	*0.00030579*	*0.00030777*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	4266.01000000	13256.40000000	6829.75000000	7441.55000000	5865.11000000	6895.67000000	106968
Int RSD	*3.55711778*	*0.28440753*	*0.99850361*	*1.10014715*	*1.67750647*	*1.29158588*	*1.93341934*
Int SD	*151.74700000*	*37.70220000*	*68.19530000*	*81.86800000*	*98.38760000*	*89.06350000*	*2068.14000000*
RelInt Mean	0.00605308	0.01022150	0.00319530	0.00534731	0.00439548	0.00572934	0.58072200
RelInt RSD	*3.70350301*	*0.82188622*	*1.75156636*	*1.24483338*	*1.86812134*	*1.57813291*	*2.18038924*
RelInt SD	*0.00022418*	*0.00008401*	*0.00005597*	*0.00006657*	*0.00008211*	*0.00009042*	*0.01266200*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	340752	7624.59000000	14417.50000000	909294	29860300	184114	68255.50000000
Int RSD	*0.88201390*	*1.91957863*	*0.62347286*	*0.24626029*	*1.10596679*	*0.59055259*	*0.38704720*
Int SD	*3005.48000000*	*146.36000000*	*89.88920000*	*2239.23000000*	*330245*	*1087.29000000*	*264.18100000*
RelInt Mean	0.01037700	0.00648269	0.00029379	---	---	---	0.07271050
RelInt RSD	*0.64127975*	*2.22961456*	*1.06976364*	---	---	---	*0.64843867*
RelInt SD	*0.00006655*	*0.00014454*	*0.00000314*	---	---	---	*0.00047148*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	898.60600000	10359.20000000	7392.13000000	2356.99000000	15647.80000000	2129.81000000	
Int RSD	*13.74573506*	*2.76088887*	*1.04700269*	*1.13454024*	*1.01429594*	*1.39740634*	
Int SD	*123.52000000*	*286.00600000*	*77.39580000*	*26.74100000*	*158.71500000*	*29.76210000*	
RelInt Mean	0.00425706	0.04666910	0.00379477	0.00060319	0.01311350	-0.00006682	
RelInt RSD	*15.55777931*	*3.12551560*	*3.34389172*	*7.11191204*	*1.74134289*	*65.19701750*	
RelInt SD	*0.00066230*	*0.00145865*	*0.00012689*	*0.00004290*	*0.00022835*	*0.00004356*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L3,S17466			Sample Type: Calibration Sample
Measure Date: 2022-12-23 08:56:51	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28651.10000000	3999.44000000	19080.00000000	80520.30000000	308558	30.49160000	79427.10000000
Int RSD	*0.25225698*	*4.24591943*	*0.45244392*	*0.28975178*	*0.60326746*	*107.50009839*	*0.79439511*
Int SD	*72.27440000*	*169.81300000*	*86.32630000*	*233.30900000*	*1861.43000000*	*32.77850000*	*630.96500000*
RelInt Mean	0.00001961	0.02034420	0.01895500	0.08449170	0.33536200	0.00008462	0.08314920
RelInt RSD	*18.22034892*	*5.59220810*	*0.88322342*	*1.00884229*	*0.25302241*	*44.22822607*	*0.35977616*
RelInt SD	*0.00000357*	*0.00113769*	*0.00016742*	*0.00085239*	*0.00084854*	*0.00003742*	*0.00029915*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	134460	996700	580519	-208.87400000	236.52100000	1614360	121370
Int RSD	*0.57678864*	*1.30542791*	*0.59542409*	*41.90023651*	*23.67561443*	*0.12538281*	*1.31220236*
Int SD	*775.55000000*	*13011.20000000*	*3456.55000000*	*87.51870000*	*55.99780000*	*2024.13000000*	*1592.62000000*
RelInt Mean	0.14376400	0.03276820	0.63419300	-0.00052795	-0.00088645	1.77267000	0.13096700
RelInt RSD	*0.14696656*	*1.44701570*	*0.38378222*	*122.58759842*	*15.65645285*	*0.56518698*	*1.51755022*
RelInt SD	*0.00021128*	*0.00047416*	*0.00243392*	*0.00064720*	*0.00013879*	*0.01001890*	*0.00198749*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	3962.98000000	98447.90000000	33381.10000000	53619.30000000	43320.10000000	52834.70000000	1075660
Int RSD	*5.89465503*	*0.52001719*	*0.29024628*	*0.47081741*	*1.08652796*	*0.20552024*	*0.80364149*
Int SD	*233.60400000*	*511.94600000*	*96.88740000*	*252.44900000*	*470.68500000*	*108.58600000*	*8644.45000000*
RelInt Mean	0.00598858	0.10374300	0.03231100	0.05595450	0.04555970	0.05620250	5.82898000
RelInt RSD	*10.45383046*	*0.33817029*	*1.06152394*	*1.18127407*	*1.68813227*	*0.55408033*	*0.31896490*
RelInt SD	*0.00062604*	*0.00035083*	*0.00034299*	*0.00066098*	*0.00076911*	*0.00031141*	*0.01859240*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	3196440	62257.20000000	86298.20000000	912984	29581700	184699	668733
Int RSD	*0.79497816*	*0.91865680*	*1.25053593*	*0.68452678*	*0.27713282*	*0.67287858*	*0.10541651*
Int SD	*25411.00000000*	*571.93000000*	*1079.19000000*	*6249.62000000*	*81980.60000000*	*1242.80000000*	*704.95500000*
RelInt Mean	0.10701700	0.06640530	0.00272335	---	---	---	0.73334400
RelInt RSD	*0.84955194*	*1.40098607*	*1.30519030*	---	---	---	*0.77614189*
RelInt SD	*0.00090916*	*0.00093033*	*0.00003554*	---	---	---	*0.00569179*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	20444.00000000	89857.80000000	8681.28000000	3145.10000000	121105	2339.93000000	
Int RSD	*1.84757875*	*2.27708669*	*1.03193193*	*1.06409971*	*0.67044631*	*1.90853573*	
Int SD	*377.71900000*	*2046.14000000*	*89.58490000*	*33.46700000*	*811.94400000*	*44.65840000*	
RelInt Mean	0.11041600	0.47540800	0.00516829	0.00136351	0.12894100	0.00006075	
RelInt RSD	*2.23402405*	*2.60260660*	*1.94731720*	*3.08080615*	*0.21711636*	*78.56950032*	
RelInt SD	*0.00246672*	*0.01237300*	*0.00010064*	*0.00004201*	*0.00027995*	*0.00004773*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L4,S17429			Sample Type: Calibration Sample
Measure Date: 2022-12-23 09:00:07	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	34741.40000000	39156.40000000	165824	741973	2895120	189.02800000	714129
Int RSD	*0.66504228*	*2.95509802*	*0.55239712*	*0.44082467*	*0.26090974*	*12.75652284*	*0.15968824*
Int SD	*231.04500000*	*1157.11000000*	*916.00700000*	*3270.80000000*	*7553.65000000*	*24.11340000*	*1140.38000000*
RelInt Mean	-0.00003468	0.21996700	0.18608500	0.84226000	3.30047000	0.00058751	0.80921600
RelInt RSD	*15.59444451*	*3.25022844*	*0.57976731*	*0.31942749*	*0.21415465*	*9.14499451*	*0.13110220*
RelInt SD	*0.00000541*	*0.00714943*	*0.00107886*	*0.00269041*	*0.00706811*	*0.00005373*	*0.00106090*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	1250000	9193880	5372400	-178.82300000	309.73500000	14710800	1197400
Int RSD	*0.26647600*	*1.04990276*	*0.23757166*	*14.22775594*	*35.59171550*	*0.57826087*	*0.60017872*
Int SD	*3330.95000000*	*96526.80000000*	*12763.30000000*	*25.44250000*	*110.24000000*	*85066.80000000*	*7186.54000000*
RelInt Mean	1.42000000	0.33007400	6.12940000	-0.00052399	-0.00062612	16.79500000	1.36317000
RelInt RSD	*0.05261620*	*0.93317256*	*0.14743058*	*37.19453197*	*75.12557557*	*0.45210837*	*0.61598040*
RelInt SD	*0.00074715*	*0.00308016*	*0.00903661*	*0.00019490*	*0.00047037*	*0.07593160*	*0.00839686*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	4000.15000000	881475	273400	490507	3278.05000000	482923	9822320
Int RSD	*6.74617202*	*0.29361128*	*0.36813826*	*0.41804704*	*6.78561950*	*0.19572727*	*0.18220339*
Int SD	*269.85700000*	*2588.11000000*	*1006.49000000*	*2050.55000000*	*222.43600000*	*945.21200000*	*17896.60000000*
RelInt Mean	0.00622635	0.99944500	0.30576200	0.55484600	0.00052165	0.54833100	55.52440000
RelInt RSD	*4.80053322*	*0.33182917*	*0.26964862*	*0.31624271*	*49.03277875*	*0.23687882*	*0.27643162*
RelInt SD	*0.00029890*	*0.00331645*	*0.00082448*	*0.00175466*	*0.00025578*	*0.00129888*	*0.15348700*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	30015000	568254	768710	881354	27729700	177064	6287160
Int RSD	*1.00175246*	*0.31187462*	*1.12462307*	*0.27189302*	*0.17131379*	*0.39976506*	*0.35168025*
Int SD	*300676*	*1772.24000000*	*8645.09000000*	*2396.34000000*	*47504.80000000*	*707.84000000*	*22110.70000000*
RelInt Mean	1.08139000	0.64477500	0.02745840	---	---	---	7.17401000
RelInt RSD	*0.97997022*	*0.28779031*	*1.13177388*	---	---	---	*0.11646262*
RelInt SD	*0.01059730*	*0.00185560*	*0.00031077*	---	---	---	*0.00835504*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	206016	935818	22534.30000000	9713.28000000	1132450	4160.63000000	
Int RSD	*0.33979691*	*0.59306510*	*0.50927253*	*0.59145314*	*0.28377677*	*1.05112928*	
Int SD	*700.03600000*	*5550.01000000*	*114.76100000*	*57.44950000*	*3213.63000000*	*43.73360000*	
RelInt Mean	1.16337000	5.23811000	0.02047460	0.00780188	1.28507000	0.00119330	
RelInt RSD	*0.70634536*	*0.79686375*	*1.42167857*	*0.75405159*	*0.37508229*	*3.05720272*	
RelInt SD	*0.00821741*	*0.04174060*	*0.00029108*	*0.00005883*	*0.00482007*	*0.00003648*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L5,S17316			Sample Type: Calibration Sample
Measure Date: 2022-12-23 09:03:25	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	1500710	632.91800000	2196.91000000	8373.68000000	4882.81000000	136.48900000	3946.18000000
Int RSD	*1.09895983*	*21.92306112*	*5.17144535*	*6.29166627*	*0.51071617*	*65.12444226*	*0.31863980*
Int SD	*16492.20000000*	*138.75500000*	*113.61200000*	*526.84400000*	*24.93730000*	*88.88770000*	*12.57410000*
RelInt Mean	0.04996010	0.00244497	0.00044450	0.00514895	0.00106639	0.00030484	0.00019491
RelInt RSD	*0.50353382*	*15.23666957*	*29.08394319*	*12.13070626*	*3.31495044*	*192.88345651*	*7.25505487*
RelInt SD	*0.00025157*	*0.00037253*	*0.00012928*	*0.00062460*	*0.00003535*	*0.00058798*	*0.00001414*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4034.29000000	33632.60000000	10400.00000000	-244.62200000	326.71200000	9079.45000000	15448.60000000
Int RSD	*0.44071695*	*1.23636888*	*19.47067308*	*24.60592261*	*12.50456059*	*0.90894823*	*23.93899771*
Int SD	*17.77980000*	*415.82300000*	*2024.95000000*	*60.19150000*	*40.85390000*	*82.52750000*	*3698.24000000*
RelInt Mean	0.00041671	0.00026682	0.00652206	-0.00086288	-0.00037857	0.00504619	0.01465240
RelInt RSD	*4.24640637*	*5.34012203*	*34.87487082*	*44.41593540*	*30.69884407*	*2.46865457*	*28.45260845*
RelInt SD	*0.00001770*	*0.00001425*	*0.00227456*	*0.00038326*	*0.00011622*	*0.00012457*	*0.00416899*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	3778.99000000	4468.32000000	3992.17000000	2981.20000000	1954.37000000	2836.38000000	1858.39000000
Int RSD	*6.30496508*	*1.03389193*	*0.08232190*	*2.47581511*	*1.30861096*	*11.93655293*	*6.97098026*
Int SD	*238.26400000*	*46.19760000*	*3.28643000*	*73.80900000*	*25.57510000*	*338.56600000*	*129.54800000*
RelInt Mean	0.00487967	0.00048869	0.00003488	0.00040394	0.00007861	0.00124263	0.00919745
RelInt RSD	*7.01428580*	*11.71589351*	*71.58829634*	*19.68356530*	*40.57206462*	*30.82381723*	*8.72549457*
RelInt SD	*0.00034227*	*0.00005725*	*0.00002497*	*0.00007951*	*0.00003189*	*0.00038303*	*0.00080252*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	89917.80000000	4768.04000000	6780.30000000	900722	29479200	181814	5069.50000000
Int RSD	*5.42402061*	*34.01124991*	*1.52944560*	*0.35565691*	*0.62933865*	*1.31721430*	*1.77909064*
Int SD	*4877.16000000*	*1621.67000000*	*103.70100000*	*3203.48000000*	*185524*	*2394.88000000*	*90.19100000*
RelInt Mean	0.00201007	0.00334537	0.00003887	---	---	---	0.00289396
RelInt RSD	*8.99277140*	*54.87464765*	*13.79986672*	---	---	---	*4.32576815*
RelInt SD	*0.00018076*	*0.00183576*	*0.00000536*	---	---	---	*0.00012519*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-43.05500000	1937.86000000	8069.11000000	2555.35000000	4177.55000000	2167.87000000	
Int RSD	*316.62524678*	*14.68661307*	*2.08742972*	*2.28866104*	*0.47339230*	*0.90253567*	
Int SD	*136.32300000*	*284.60600000*	*168.43700000*	*58.48330000*	*19.77620000*	*19.56580000*	
RelInt Mean	-0.00083011	0.00242822	0.00456054	0.00078446	0.00047691	-0.00005879	
RelInt RSD	*69.22355980*	*31.56719737*	*3.65399711*	*8.96923999*	*5.41692265*	*57.37582777*	
RelInt SD	*0.00057463*	*0.00076652*	*0.00016664*	*0.00007036*	*0.00002583*	*0.00003373*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L6,S17333			Sample Type: Calibration Sample
Measure Date: 2022-12-23 09:06:42	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	29161.60000000	860.91100000	1942.99000000	6202.07000000	4223.11000000	22340.40000000	3898.32000000
Int RSD	*0.61397866*	*8.60027343*	*0.52894765*	*1.37534888*	*0.85929564*	*1.45220766*	*1.33214564*
Int SD	*179.04600000*	*74.04070000*	*10.27740000*	*85.30010000*	*36.28900000*	*324.42900000*	*51.93130000*
RelInt Mean	0.00003449	0.00280613	0.00006451	0.00259988	0.00012222	0.12529700	-0.00004791
RelInt RSD	*29.29921162*	*23.31876998*	*14.00832083*	*3.64881456*	*23.76227335*	*0.97395788*	*47.11264725*
RelInt SD	*0.00001010*	*0.00065436*	*0.00000904*	*0.00009486*	*0.00002904*	*0.00122034*	*0.00002257*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3899.68000000	31509.70000000	5584.93000000	84739.20000000	9522.31000000	4897.25000000	5069.50000000
Int RSD	*0.39604019*	*0.67388772*	*1.48831230*	*2.50534581*	*4.00098295*	*0.53826739*	*7.08373607*
Int SD	*15.44430000*	*212.34000000*	*83.12120000*	*2123.01000000*	*380.98600000*	*26.36030000*	*359.11000000*
RelInt Mean	0.00009517	0.00018465	0.00098231	0.47670300	0.05096440	0.00018085	0.00307348
RelInt RSD	*32.69037186*	*3.47829124*	*11.40463662*	*2.42924840*	*4.09693825*	*15.98582243*	*14.27629267*
RelInt SD	*0.00003111*	*0.00000642*	*0.00011203*	*0.01158030*	*0.00208798*	*0.00002891*	*0.00043878*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	600094	4378.50000000	4039.72000000	2769.32000000	2014.35000000	2038.86000000	124.21200000
Int RSD	*0.89249018*	*0.28367021*	*1.21110622*	*1.02668164*	*2.96906694*	*2.12845414*	*21.71352204*
Int SD	*5355.78000000*	*12.42050000*	*48.92530000*	*28.43210000*	*59.80740000*	*43.39620000*	*26.97080000*
RelInt Mean	3.34930000	0.00021298	-0.00005786	0.00002182	0.00002885	0.00024891	-0.00038079
RelInt RSD	*0.62472457*	*18.34126049*	*68.11897548*	*185.85129147*	*129.42897148*	*18.37412419*	*55.32206559*
RelInt SD	*0.02092390*	*0.00003906*	*0.00003941*	*0.00004056*	*0.00003734*	*0.00004574*	*0.00021066*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	55293.00000000	1878.68000000	6658.07000000	871685	28200600	178012	3013.30000000
Int RSD	*0.64409238*	*1.45698576*	*1.29288217*	*0.27559841*	*0.32798522*	*0.30666753*	*0.24460525*
Int SD	*356.13800000*	*27.37210000*	*86.08100000*	*2402.35000000*	*92493.80000000*	*545.90500000*	*7.37069000*
RelInt Mean	0.00085204	0.00006571	0.00002608	---	---	---	0.00046461
RelInt RSD	*0.55728422*	*39.74810838*	*9.22659623*	---	---	---	*8.05207831*
RelInt SD	*0.00000475*	*0.00002612*	*0.00000241*	---	---	---	*0.00003741*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-12.15380000	1757.59000000	563320	2438.87000000	3965.17000000	2254.07000000	
Int RSD	*721.09299149*	*8.64262996*	*0.19232053*	*2.27525452*	*1.83682667*	*0.30413031*	
Int SD	*87.64020000*	*151.90200000*	*1083.38000000*	*55.49050000*	*72.83330000*	*6.85531000*	
RelInt Mean	-0.00086140	0.00117167	0.64412300	0.00057138	0.00008907	-0.00006121	
RelInt RSD	*42.53867273*	*11.72599793*	*0.09048536*	*9.21398656*	*67.99766465*	*40.69447530*	
RelInt SD	*0.00036643*	*0.00013739*	*0.00058284*	*0.00005265*	*0.00006056*	*0.00002491*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L7,S17334			Sample Type: Calibration Sample
Measure Date: 2022-12-23 09:09:58	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	28736.90000000	668.81500000	1844.57000000	5558.21000000	4100.19000000	80.45220000	3835.09000000
Int RSD	*0.89410479*	*17.44428579*	*1.15518522*	*0.44410161*	*0.96433580*	*126.72245134*	*1.32118673*
Int SD	*256.93800000*	*116.67000000*	*21.30820000*	*24.68410000*	*39.53960000*	*101.95100000*	*50.66870000*
RelInt Mean	0.00002714	0.00265293	0.00002082	0.00195288	0.00015407	0.00012990	0.00003913
RelInt RSD	*12.20285775*	*16.76930790*	*147.15238658*	*2.88541539*	*30.67700795*	*701.57426368*	*118.79377800*
RelInt SD	*0.00000331*	*0.00044488*	*0.00003064*	*0.00005635*	*0.00004727*	*0.00091136*	*0.00004649*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3820.11000000	31173.30000000	5468.08000000	-259.25400000	272.65400000	5052.47000000	3501.62000000
Int RSD	*0.79774143*	*0.36599911*	*0.49022143*	*6.30231356*	*30.21140346*	*0.72462974*	*2.03916187*
Int SD	*30.47460000*	*114.09400000*	*26.80570000*	*16.33900000*	*82.37260000*	*36.61170000*	*71.40370000*
RelInt Mean	0.00011756	0.00017342	0.00096432	-0.00128470	-0.00066416	0.00048901	0.00127301
RelInt RSD	*24.10353686*	*1.83439726*	*1.61108513*	*8.09262863*	*83.66631283*	*3.14669584*	*5.95698384*
RelInt SD	*0.00002834*	*0.00000318*	*0.00001554*	*0.00010397*	*0.00055567*	*0.00001539*	*0.00007583*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	3813.96000000	4248.68000000	3907.50000000	2673.80000000	1970.55000000	1880.16000000	64.37720000
Int RSD	*7.06837513*	*1.19518062*	*0.89150352*	*0.06926472*	*0.33475781*	*0.55057548*	*50.77884717*
Int SD	*269.58500000*	*50.77940000*	*34.83550000*	*1.85200000*	*6.59657000*	*10.35170000*	*32.69000000*
RelInt Mean	0.00504157	0.00019886	-0.00009663	0.00002359	0.00004006	0.00013972	-0.00067379
RelInt RSD	*11.56241012*	*11.08453183*	*15.42725924*	*122.29419795*	*70.34979208*	*14.86694437*	*7.39450364*
RelInt SD	*0.00058293*	*0.00002204*	*0.00001491*	*0.00002885*	*0.00002818*	*0.00002077*	*0.00004982*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	32675.80000000	1804.87000000	6497.79000000	905574	29917900	183538	2972.97000000
Int RSD	*1.03796694*	*0.70349111*	*1.53142684*	*0.37716851*	*0.35398206*	*1.00105700*	*0.61075961*
Int SD	*339.16400000*	*12.69710000*	*99.50890000*	*3415.54000000*	*105904*	*1837.32000000*	*18.15770000*
RelInt Mean	0.00005824	0.00002131	0.00002754	---	---	---	0.00050004
RelInt RSD	*3.38516116*	*101.16512052*	*22.27624715*	---	---	---	*4.68192417*
RelInt SD	*0.00000197*	*0.00002156*	*0.00000614*	---	---	---	*0.00002341*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-152.51300000	1737.81000000	7410.40000000	244152	3885.33000000	95586.80000000	
Int RSD	*50.77285215*	*10.10490215*	*0.53347323*	*1.11244634*	*0.77739085*	*0.54034867*	
Int SD	*77.43520000*	*175.60400000*	*39.53250000*	*2716.06000000*	*30.20420000*	*516.50200000*	
RelInt Mean	-0.00138665	0.00130832	0.00376241	0.26853300	0.00009145	0.10347700	
RelInt RSD	*26.86849602*	*25.86591965*	*1.81605141*	*0.77576313*	*41.00993180*	*0.21024672*	
RelInt SD	*0.00037257*	*0.00033841*	*0.00006833*	*0.00208318*	*0.00003751*	*0.00021756*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICAL,L8,S17210			Sample Type: Calibration Sample
Measure Date: 2022-12-23 09:13:14	Recalculation Date:	State: Measured	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	30067.70000000	2237.21000000	2334.63000000	6225.01000000	4916.92000000	434906	4553.57000000
Int RSD	*0.84399871*	*2.24578828*	*1.85087573*	*0.59358298*	*0.75579835*	*0.64776986*	*1.03061774*
Int SD	*253.77100000*	*50.24300000*	*43.21110000*	*36.95060000*	*37.16200000*	*2817.19000000*	*46.92990000*
RelInt Mean	0.00003445	0.00118406	-0.00006065	0.00179564	0.00025699	2.44038000	0.00003410
RelInt RSD	*9.10674527*	*28.29248518*	*114.76783371*	*4.33024437*	*20.62326595*	*0.76167236*	*158.74532967*
RelInt SD	*0.00000314*	*0.00033500*	*0.00006961*	*0.00007776*	*0.00005300*	*0.01858770*	*0.00005413*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4727.70000000	33039.30000000	6268.70000000	371787	172847	6194.63000000	3485.78000000
Int RSD	*1.12686296*	*0.65560106*	*0.22337805*	*1.30282124*	*0.20584100*	*0.38971819*	*2.10824837*
Int SD	*53.27470000*	*216.60600000*	*14.00290000*	*4843.72000000*	*355.79000000*	*24.14160000*	*73.48890000*
RelInt Mean	0.00010422	0.00020490	0.00077908	2.07894000	0.96543500	0.00073558	0.00072378
RelInt RSD	*55.60510838*	*1.77844370*	*3.02248687*	*2.11928675*	*0.70258381*	*3.74127557*	*10.08188941*
RelInt SD	*0.00005795*	*0.00000364*	*0.00002355*	*0.04405870*	*0.00678299*	*0.00002752*	*0.00007297*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	2548330	5070.79000000	4619.08000000	3149.92000000	2398.57000000	2247.20000000	341.04600000
Int RSD	*0.13088768*	*0.23013179*	*0.59842869*	*1.12455237*	*0.78340845*	*1.16165450*	*10.76060121*
Int SD	*3335.45000000*	*11.66950000*	*27.64190000*	*35.42250000*	*18.79060000*	*26.10470000*	*36.69860000*
RelInt Mean	14.24250000	0.00028204	-0.00010036	-0.00003603	0.00004352	0.00004820	0.00070457
RelInt RSD	*0.84077936*	*7.01137770*	*23.19958550*	*115.27096604*	*58.22407875*	*44.97063516*	*78.17029345*
RelInt SD	*0.11974800*	*0.00001978*	*0.00002328*	*0.00004153*	*0.00002534*	*0.00002168*	*0.00055077*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	36714.60000000	2185.20000000	8100.20000000	816726	25581900	178383	3609.66000000
Int RSD	*1.15521890*	*0.43749268*	*1.20025061*	*2.99559461*	*0.26205872*	*0.90304569*	*0.69894949*
Int SD	*424.13400000*	*9.56009000*	*97.22270000*	*24465.80000000*	*67039.60000000*	*1610.88000000*	*25.22970000*
RelInt Mean	0.00011187	-0.00001422	0.00003425	---	---	---	0.00075598
RelInt RSD	*11.81413477*	*5.18160270*	*5.91506903*	---	---	---	*6.91567546*
RelInt SD	*0.00001322*	*0.00000074*	*0.00000203*	---	---	---	*0.00005228*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-59.11250000	1881.73000000	8088.40000000	2788.50000000	4556.69000000	2724.59000000	
Int RSD	*280.13702686*	*8.24044895*	*0.57125389*	*0.90529317*	*0.71677248*	*1.31279569*	
Int SD	*165.59600000*	*155.06300000*	*46.20530000*	*25.24410000*	*32.66110000*	*35.76830000*	
RelInt Mean	-0.00115790	0.00111196	0.00385325	0.00060452	0.00003347	-0.00009130	
RelInt RSD	*74.15476293*	*21.33395086*	*0.98198404*	*4.75804971*	*195.52327996*	*57.27543769*	
RelInt SD	*0.00085864*	*0.00023723*	*0.00003784*	*0.00002876*	*0.00006544*	*0.00005229*	

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICV,S17413	Sample Type: Control Sample		
Measure Date: 2022-12-23 09:16:49	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	351950	3323.23000000	19326.30000000	81946.40000000	280962	218076	139811
Int RSD	*1.17813326*	*3.34575097*	*1.00324946*	*0.53418454*	*0.58028844*	*0.31058713*	*0.54988306*
Int SD	*4146.44000000*	*111.18700000*	*193.89100000*	*437.74500000*	*1630.39000000*	*677.31600000*	*768.79700000*
RelInt Mean	0.01216860	0.01262440	0.02063370	0.09368650	0.33424700	1.23053000	0.16358400
RelInt RSD	*1.43356672*	*5.19032192*	*1.43150768*	*0.18563294*	*0.10638450*	*0.15675116*	*0.23766444*
RelInt SD	*0.00017444*	*0.00065525*	*0.00029537*	*0.00017391*	*0.00035559*	*0.00192887*	*0.00038878*
Conc Mean	0.48633100[mg/l]	0.93487100[mg/l]	1.11212000[mg/l]	1.09687000[mg/l]	1.00838000[mg/l]	100.83700000[mg/l]	1.00852000[mg/l]
Conc RSD	*1.43684240*	*6.45490126*	*1.42599719*	*0.18874525*	*0.10518654*	*0.15687396*	*0.24052473*
Conc SD	*0.00698781[mg/l]*	*0.06034500[mg/l]*	*0.01585880[mg/l]*	*0.00207029[mg/l]*	*0.00106068[mg/l]*	*0.15818700[mg/l]*	*0.00242574[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	122387	901366	268557	211466	92691.60000000	1435460	121266
Int RSD	*0.39140350*	*1.56377099*	*0.34239547*	*0.85874325*	*2.20863595*	*0.59025330*	*1.42368842*
Int SD	*479.02700000*	*14095.30000000*	*919.52700000*	*1815.95000000*	*2047.22000000*	*8472.85000000*	*1726.45000000*
RelInt Mean	0.14234800	0.03292160	0.31834900	1.19136000	0.51967200	1.72995000	0.14327300
RelInt RSD	*0.29093840*	*1.76296110*	*0.16900980*	*0.45874379*	*1.83476693*	*0.60064742*	*1.48958282*
RelInt SD	*0.00041414*	*0.00058040*	*0.00053804*	*0.00546529*	*0.00953477*	*0.01039090*	*0.00213417*
Conc Mean	1.00204000[mg/l]	0.99284100[mg/l]	1.03738000[mg/l]	114.63600000[mg/l]	107.68700000[mg/l]	1.02934000[mg/l]	1.05091000[mg/l]
Conc RSD	*0.29095844*	*1.77232810*	*0.16898918*	*0.45878433*	*1.83289534*	*0.60076262*	*1.49061290*
Conc SD	*0.00291552[mg/l]*	*0.01759640[mg/l]*	*0.00175306[mg/l]*	*0.52593200[mg/l]*	*1.97379000[mg/l]*	*0.00618389[mg/l]*	*0.01566500[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1232280	86398.10000000	30325.80000000	19161.10000000	14700.60000000	218049	214508
Int RSD	*0.29893774*	*0.26049763*	*0.62243041*	*1.81433738*	*0.73059603*	*0.26302391*	*0.58617860*
Int SD	*3683.75000000*	*225.06500000*	*188.75700000*	*347.64700000*	*107.40200000*	*573.52100000*	*1257.40000000*
RelInt Mean	6.91710000	0.09860870	0.03112360	0.01939060	0.01501390	0.26120200	1.20967000
RelInt RSD	*0.29451071*	*0.25066348*	*0.33481667*	*1.83561623*	*0.57834673*	*0.26061630*	*0.32568634*
RelInt SD	*0.02037160*	*0.00024718*	*0.00010421*	*0.00035594*	*0.00008683*	*0.00068074*	*0.00393973*
Conc Mean	97.42270000[mg/l]	0.98462600[mg/l]	1.01855000[mg/l]	1.04449000[mg/l]	0.98951000[mg/l]	4.76172000[mg/l]	1.03807000[mg/l]
Conc RSD	*0.29477627*	*0.25113089*	*0.33305778*	*1.84184626*	*0.57783044*	*0.26066841*	*0.32543759*
Conc SD	*0.28717900[mg/l]*	*0.00247270[mg/l]*	*0.00339236[mg/l]*	*0.01923790[mg/l]*	*0.00571769[mg/l]*	*0.01241230[mg/l]*	*0.00337827[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	3013030	20078.30000000	155065	832056	26518300	177368	204820
Int RSD	*1.23399037*	*0.52554250*	*1.14125044*	*0.48008548*	*0.16502264*	*0.43512866*	*0.25333561*
Int SD	*37180.50000000*	*105.52000000*	*1769.68000000*	*3994.58000000*	*43761.20000000*	*771.77900000*	*518.88200000*
RelInt Mean	0.11242500	0.02161400	0.00559785	---	---	---	0.24408600
RelInt RSD	*1.35572159*	*0.70066623*	*1.31015479*	---	---	---	*0.24332366*
RelInt SD	*0.00152417*	*0.00015144*	*0.00007334*	---	---	---	*0.00059392*
Conc Mean	1.03977000[mg/l]	1.00359000[mg/l]	1.01471000[mg/l]	826525	26467400	177156	0.99691800[mg/l]
Conc RSD	*1.35561711*	*0.69492821*	*1.31706596*	---	---	---	*0.24366798*
Conc SD	*0.01409530[mg/l]*	*0.00697423[mg/l]*	*0.01336440[mg/l]*	*4039.92000000*	*43627.10000000*	*772.17600000*	*0.00242917[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	42868.90000000	114327	293825	122253	226354	49424.80000000	
Int RSD	*3.13409021*	*0.24548794*	*0.42492300*	*0.77200232*	*0.29116693*	*0.44543630*	
Int SD	*1343.55000000*	*280.65900000*	*1248.53000000*	*943.79600000*	*659.06800000*	*220.15600000*	
RelInt Mean	0.24131600	0.63188200	0.34933000	0.14481000	0.26809500	0.05646310	
RelInt RSD	*2.75706542*	*0.38653261*	*0.09670541*	*0.33080934*	*0.29422891*	*0.07097078*	
RelInt SD	*0.00665324*	*0.00244243*	*0.00033782*	*0.00047904*	*0.00078881*	*0.00004007*	
Conc Mean	1.04080000[mg/l]	1.20594000[mg/l]	5.37266000[mg/l]	5.37917000[mg/l]	1.03873000[mg/l]	5.45849000[mg/l]	
Conc RSD	*2.74651230*	*0.38728461*	*0.09217390*	*0.33267400*	*0.28961617*	*0.07091210*	
Conc SD	*0.02858570[mg/l]*	*0.00467042[mg/l]*	*0.00495219[mg/l]*	*0.01789510[mg/l]*	*0.00300833[mg/l]*	*0.00387073[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607012	File:	met06_master	Time:	23-DEC-2022 09:23
Cal:	482514607001	Caldate:	23-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	29448900	-3.33
Yttrium	A	919101	894349	-2.69
Yttrium	R	186284	178578	-4.14

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICB,1			Sample Type: Control Sample
Measure Date: 2022-12-23 09:23:20	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	29033.00000000	702.26200000	1778.07000000	5268.73000000	4131.02000000	63.77450000	3842.83000000
Int RSD	*0.18811731*	*4.58941250*	*1.75094344*	*0.51539935*	*1.45611011*	*215.91702013*	*0.61340991*
Int SD	*54.61610000*	*32.22970000*	*31.13300000*	*27.15500000*	*60.15220000*	*137.70000000*	*23.57230000*
RelInt Mean	0.00003142	0.00266667	-0.00005869	0.00161439	0.00015420	0.00012014	0.00001059
RelInt RSD	*13.48170214*	*8.12507734*	*53.92020063*	*3.69367377*	*28.47498735*	*514.89466193*	*133.21432956*
RelInt SD	*0.00000424*	*0.00021667*	*0.00003165*	*0.00005963*	*0.00004391*	*0.00061858*	*0.00001410*
Conc Mean	<0.00020044[mg/l]	<0.01784120[mg/l]	<0.00182987[mg/l]	0.00165495[mg/l]	<0.00007581[mg/l]	<0.00280897[mg/l]	<-0.00015150[mg/l]
Conc RSD	*84.64892587*	*111.83888976*	*92.87545017*	*42.86093235*	*181.54620177*	*1804.71133547*	*57.57288923*
Conc SD	*0.00016967[mg/l]*	*0.01995340[mg/l]*	*0.00169950[mg/l]*	*0.00070933[mg/l]*	*0.00013763[mg/l]*	*0.05069380[mg/l]*	*0.00008722[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	3801.06000000	31016.70000000	5180.95000000	-239.44700000	392.88100000	4669.47000000	3166.58000000
Int RSD	*0.40453979*	*0.48306235*	*0.38612610*	*16.67133019*	*21.18598252*	*0.46183614*	*4.28506464*
Int SD	*15.37680000*	*149.83000000*	*20.00500000*	*39.91900000*	*83.23570000*	*21.56530000*	*135.69000000*
RelInt Mean	0.00007369	0.00016355	0.00058585	-0.00090064	-0.00011758	0.00001431	0.00090357
RelInt RSD	*7.53631232*	*4.23822830*	*1.84146112*	*24.70967835*	*217.02062513*	*259.11277018*	*20.22831657*
RelInt SD	*0.00000555*	*0.00000693*	*0.00001079*	*0.00022254*	*0.00025516*	*0.00003707*	*0.00018278*
Conc Mean	<0.00019571[mg/l]	<-0.00024301[mg/l]	0.00083897[mg/l]	<-0.02985430[mg/l]	<0.08585180[mg/l]	<-0.00010387[mg/l]	0.00603890[mg/l]
Conc RSD	*19.98252508*	*86.46785782*	*4.19442388*	*71.69285497*	*61.52555916*	*21.23527033*	*22.21331699*
Conc SD	*0.00003911[mg/l]*	*0.00021013[mg/l]*	*0.00003519[mg/l]*	*0.02140340[mg/l]*	*0.05282080[mg/l]*	*0.00002206[mg/l]*	*0.00134144[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	4291.60000000	4285.26000000	3971.75000000	2746.57000000	1998.15000000	1840.20000000	78.44860000
Int RSD	*4.66588219*	*0.87331457*	*0.10335444*	*1.69969453*	*1.32525086*	*1.42617107*	*163.78877380*
Int SD	*200.24100000*	*37.42380000*	*4.10498000*	*46.68330000*	*26.48050000*	*26.24440000*	*128.49000000*
RelInt Mean	0.00739097	0.00022046	-0.00005433	0.00007525	0.00004722	0.00008982	-0.00060178
RelInt RSD	*3.76037245*	*4.69942257*	*48.30268416*	*70.51591109*	*93.42125048*	*35.98950314*	*68.67292695*
RelInt SD	*0.00027793*	*0.00001036*	*0.00002624*	*0.00005306*	*0.00004411*	*0.00003232*	*0.00041326*
Conc Mean	0.03161450[mg/l]	<0.00038580[mg/l]	<-0.00015393[mg/l]	0.00616936[mg/l]	<0.00396094[mg/l]	<0.00028322[mg/l]	<0.00000297[mg/l]
Conc RSD	*12.39114963*	*26.86333110*	*554.99116493*	*46.49817809*	*73.33562235*	*208.12407316*	*11922.70433905*
Conc SD	*0.00391740[mg/l]*	*0.00010364[mg/l]*	*0.00085431[mg/l]*	*0.00286864[mg/l]*	*0.00290478[mg/l]*	*0.00058945[mg/l]*	*0.00035446[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	33108.30000000	1765.00000000	6591.80000000	894349	29448900	178578	2811.58000000
Int RSD	*0.98075105*	*0.56315297*	*0.63824449*	*0.30859430*	*0.05909796*	*0.50394169*	*0.98691483*
Int SD	*324.71000000*	*9.93965000*	*42.07180000*	*2759.91000000*	*17403.70000000*	*899.92900000*	*27.74790000*
RelInt Mean	0.00006636	-0.00002101	0.00002702	---	---	---	0.00030250
RelInt RSD	*8.68388374*	*51.43116917*	*6.11144626*	---	---	---	*16.20196297*
RelInt SD	*0.00000576*	*0.00001080*	*0.00000165*	---	---	---	*0.00004901*
Conc Mean	0.00064164[mg/l]	0.00281536[mg/l]	<-0.00059603[mg/l]	889224	29400100	178357	<-0.00060582[mg/l]
Conc RSD	*8.30556867*	*17.92005285*	*50.55794639*	---	---	---	*33.12270867*
Conc SD	*0.00005329[mg/l]*	*0.00050451[mg/l]*	*0.00030134[mg/l]*	*2783.03000000*	*17071.30000000*	*927.65900000*	*0.00020066[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-97.96100000	1675.76000000	7470.19000000	2447.10000000	3892.35000000	2135.76000000	
Int RSD	*50.27327202*	*0.59393529*	*0.41256648*	*4.39230109*	*1.27509859*	*1.11502229*	
Int SD	*49.24820000*	*9.95293000*	*30.81950000*	*107.48400000*	*49.63130000*	*23.81420000*	
RelInt Mean	-0.00135667	0.00059929	0.00385302	0.00067426	0.00009041	-0.00009970	
RelInt RSD	*35.48268923*	*85.95909840*	*0.58541612*	*16.36181349*	*41.31902967*	*28.62476165*	
RelInt SD	*0.00048138*	*0.00051515*	*0.00002256*	*0.00011032*	*0.00003736*	*0.00002854*	
Conc Mean	<-0.00178362[mg/l]	<-0.00045439[mg/l]	<0.00096444[mg/l]	<-0.00408528[mg/l]	<-0.00004238[mg/l]	<-0.00544624[mg/l]	
Conc RSD	*115.95182830*	*216.65228854*	*34.27909904*	*100.85746877*	*355.62781237*	*50.61749023*	
Conc SD	*0.00206814[mg/l]*	*0.00098445[mg/l]*	*0.00033060[mg/l]*	*0.00412031[mg/l]*	*0.00015071[mg/l]*	*0.00275675[mg/l]*	

ENTHALPY INTERFERENCE CHECK STANDARD A FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607014	File:	met06_master	Time:	23-DEC-2022 09:34
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17207, S13369 (100X)

Analyte	Ch	Quant	IQL	Units	Flags
Lead	A	[-0.01871]	0.003333	mg/l	a- ***

Interferent	Ch	Spiked	Quant	Units	%Rec	Flags
Iron	A	160.0	137.9	mg/l	86	
Aluminum	R	400.0	405.5	mg/l	101	
Calcium	R	400.0	404.6	mg/l	101	
Magnesium	R	400.0	409.8	mg/l	102	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	25378000	-16.70
Yttrium	A	919101	825563	-10.18
Yttrium	R	186284	175795	-5.63

-=low bias a=ICSA

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICSA,S17207	Sample Type: Control Sample		
Measure Date: 2022-12-23 09:34:23	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	31486.90000000	782144	8249.36000000	8429.20000000	5959.84000000	867028	5669.06000000
Int RSD	*1.11022679*	*0.53571209*	*0.36617871*	*0.69922175*	*0.16168320*	*0.40236532*	*0.37990954*
Int SD	*349.57600000*	*4190.04000000*	*30.20740000*	*58.93880000*	*9.63606000*	*3488.62000000*	*21.53730000*
RelInt Mean	0.00001556	4.40577000	-0.00011731	0.00223835	0.00033571	4.93671000	0.00017276
RelInt RSD	*60.78061323*	*0.04824287*	*17.61202936*	*5.39915563*	*3.12880164*	*0.09873884*	*25.76546383*
RelInt SD	*0.00000946*	*0.00212547*	*0.00002066*	*0.00012085*	*0.00001050*	*0.00487445*	*0.00004451*
Conc Mean	<-0.00043499[mg/l]	>405.51000000[mg/l]	<-0.00131294[mg/l]	0.00907709[mg/l]	0.00066075[mg/l]	>404.56600000[mg/l]	<0.00084840[mg/l]
Conc RSD	*87.06570941*	*0.04820078*	*84.49510259*	*15.83701384*	*3.86416263*	*0.09877325*	*32.41926302*
Conc SD	*0.00037873[mg/l]*	*0.19545900[mg/l]*	*0.00110937[mg/l]*	*0.00143754[mg/l]*	*0.00002553[mg/l]*	*0.39960300[mg/l]*	*0.00027505[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	5596.36000000	35998.70000000	34610500	-256.32600000	348813	11320.40000000	12351.50000000
Int RSD	*0.46723763*	*1.63202005*	*0.31218850*	*10.24956501*	*0.58341002*	*2.00644854*	*1.11979112*
Int SD	*26.14830000*	*587.50600000*	*108050*	*26.27230000*	*2035.01000000*	*227.13800000*	*138.31100000*
RelInt Mean	-0.00072473	0.00019396	42.26560000	-0.00081599	1.97927000	0.00296236	-0.00040024
RelInt RSD	*3.54986885*	*2.22255505*	*0.35290875*	*12.89989718*	*0.46877182*	*10.27879799*	*61.12667118*
RelInt SD	*0.00002573*	*0.00000431*	*0.14915900*	*0.00010526*	*0.00927826*	*0.00030450*	*0.00024465*
Conc Mean	<-0.00542649[mg/l]	0.00067894[mg/l]	>137.86900000[mg/l]	<-0.02171330[mg/l]	>409.83900000[mg/l]	0.00165044[mg/l]	<-0.00352991[mg/l]
Conc RSD	*3.33836421*	*19.24871012*	*0.35301917*	*46.62395859*	*0.46848153*	*10.97858753*	*50.86645269*
Conc SD	*0.00018116[mg/l]*	*0.00013069[mg/l]*	*0.48670400[mg/l]*	*0.01012360[mg/l]*	*1.92002000[mg/l]*	*0.00018119[mg/l]*	*0.00179554[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	5373.86000000	6027.69000000	12919.70000000	14769.70000000	9717.61000000	8401.08000000	3372.84000000
Int RSD	*3.18577335*	*0.98200471*	*0.12960131*	*0.57329059*	*1.13063809*	*0.37733363*	*3.55267371*
Int SD	*171.19900000*	*59.19220000*	*16.74410000*	*84.67330000*	*109.87100000*	*31.70010000*	*119.82600000*
RelInt Mean	0.01413060	0.00016164	0.00185563	0.00014834	-0.00040736	0.00006116	0.01779400
RelInt RSD	*4.35225680*	*37.70397179*	*7.49303471*	*44.51792528*	*19.33543465*	*61.88680047*	*3.58097673*
RelInt SD	*0.00061500*	*0.00006094*	*0.00013904*	*0.00006604*	*0.00007877*	*0.00003785*	*0.00063720*
Conc Mean	0.12660900[mg/l]	<-0.00020261[mg/l]	<-0.01870560[mg/l]	0.01015350[mg/l]	<-0.02597320[mg/l]	<-0.00023930[mg/l]	0.01578130[mg/l]
Conc RSD	*6.84625895*	*300.90765510*	*24.44054187*	*35.16984291*	*19.96939153*	*288.43516379*	*3.46327616*
Conc SD	*0.00866798[mg/l]*	*0.00060967[mg/l]*	*0.00457175[mg/l]*	*0.00357097[mg/l]*	*0.00518669[mg/l]*	*0.00069023[mg/l]*	*0.00054655[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	40912.40000000	8396.30000000	9732.11000000	825563	25378000	175795	14475.00000000
Int RSD	*1.25959122*	*0.60013220*	*2.04053386*	*0.20211298*	*0.41416975*	*0.48821866*	*1.13210363*
Int SD	*515.32900000*	*50.38890000*	*198.58700000*	*1668.57000000*	*105108*	*858.26400000*	*163.87200000*
RelInt Mean	0.00018507	-0.00002171	0.00001751	---	---	---	0.00089589
RelInt RSD	*3.03211740*	*458.99371707*	*8.98843865*	---	---	---	*25.00449275*
RelInt SD	*0.00000561*	*0.00009965*	*0.00000157*	---	---	---	*0.00022401*
Conc Mean	0.00173955[mg/l]	<0.00280540[mg/l]	<-0.00232670[mg/l]	818625	25316600	175575	0.00182630[mg/l]
Conc RSD	*2.98327728*	*165.12048193*	*12.30919328*	---	---	---	*50.21195860*
Conc SD	*0.00005190[mg/l]*	*0.00463229[mg/l]*	*0.00028640[mg/l]*	*1650.20000000*	*105286*	*877.28400000*	*0.00091702[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-73.91820000	1778.99000000	10391.00000000	6635.58000000	5908.38000000	7392.44000000	
Int RSD	*94.86378186*	*4.17688126*	*0.91410355*	*1.57473800*	*0.78894553*	*0.50413125*	
Int SD	*70.12160000*	*74.30630000*	*94.98450000*	*104.49300000*	*46.61390000*	*37.26760000*	
RelInt Mean	-0.00131481	0.00138957	0.00424724	0.00040724	-0.00048431	-0.00034125	
RelInt RSD	*35.03753394*	*52.29840886*	*5.40249668*	*51.44679848*	*9.59800209*	*16.41793407*	
RelInt SD	*0.00046068*	*0.00072672*	*0.00022946*	*0.00020951*	*0.00004648*	*0.00005603*	
Conc Mean	<-0.00160376[mg/l]	<0.00105585[mg/l]	0.00733616[mg/l]	<-0.01405780[mg/l]	<-0.00226719[mg/l]	<-0.02878010[mg/l]	
Conc RSD	*123.40936300*	*131.53194109*	*48.79405575*	*55.66304827*	*7.89730900*	*18.80518136*	
Conc SD	*0.00197919[mg/l]*	*0.00138878[mg/l]*	*0.00357961[mg/l]*	*0.00782500[mg/l]*	*0.00017905[mg/l]*	*0.00541215[mg/l]*	

ENTHALPY INTERFERENCE CHECK STANDARD AB FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607015	File:	met06_master	Time:	23-DEC-2022 09:37
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17208, S13369 (100X)

Analyte	Ch	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	1.000	0.9520	mg/l	-5	20	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	25353900	-16.78
Yttrium	A	919101	829899	-9.71
Yttrium	R	186284	175568	-5.75

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICSAB,S17208			Sample Type: Control Sample
Measure Date: 2022-12-23 09:37:40	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	679618	776655	8308.54000000	8516.70000000	138697	865217	66523.20000000
Int RSD	*0.86930894*	*0.64185127*	*0.51885650*	*1.54442448*	*0.36175692*	*0.65043336*	*0.56152440*
Int SD	*5907.98000000*	*4984.97000000*	*43.10940000*	*131.53400000*	*501.74600000*	*5627.66000000*	*373.54400000*
RelInt Mean	0.02557530	4.38116000	-0.00008521	0.00235586	0.16153300	4.93305000	0.07385550
RelInt RSD	*0.96047358*	*0.42807613*	*93.93478832*	*2.00416833*	*0.12596312*	*0.30297281*	*0.40692569*
RelInt SD	*0.00024564*	*0.01875470*	*0.00008004*	*0.00004722*	*0.00020347*	*0.01494580*	*0.00030054*
Conc Mean	1.02331000[mg/l]	>403.24400000[mg/l]	<-0.00002148[mg/l]	0.01047490[mg/l]	0.48901000[mg/l]	>404.26500000[mg/l]	0.45601400[mg/l]
Conc RSD	*0.96177307*	*0.42839819*	*20008.09931435*	*5.36114903*	*0.12580479*	*0.30302895*	*0.40709276*
Conc SD	*0.00984192[mg/l]*	*1.72749000[mg/l]*	*0.00429840[mg/l]*	*0.00056158[mg/l]*	*0.00061520[mg/l]*	*1.22504000[mg/l]*	*0.00185640[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	62963.50000000	476815	34800600	-235.84600000	348109	683591	12312.80000000
Int RSD	*0.61414311*	*0.87010476*	*0.33456032*	*59.12290223*	*0.81974037*	*0.38318966*	*0.82519817*
Int SD	*386.68600000*	*4148.79000000*	*116429*	*139.43900000*	*2853.59000000*	*2619.45000000*	*101.60500000*
RelInt Mean	0.06884250	0.01756870	42.27810000	-0.00094274	1.97794000	0.81976500	-0.00050030
RelInt RSD	*0.38445147*	*0.98012374*	*0.06333350*	*48.03726164*	*0.46688676*	*0.15403195*	*20.48251049*
RelInt SD	*0.00026467*	*0.00017219*	*0.02677620*	*0.00045287*	*0.00923474*	*0.00126270*	*0.00010247*
Conc Mean	0.48443900[mg/l]	0.52740700[mg/l]	>137.90900000[mg/l]	<-0.03390350[mg/l]	>409.56300000[mg/l]	0.48770900[mg/l]	<-0.00426425[mg/l]
Conc RSD	*0.38469240*	*0.98991860*	*0.06350594*	*128.46697244*	*0.46674871*	*0.15404001*	*17.63658322*
Conc SD	*0.00186360[mg/l]*	*0.00522090[mg/l]*	*0.08758040[mg/l]*	*0.04355480[mg/l]*	*1.91163000[mg/l]*	*0.00075127[mg/l]*	*0.00075207[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	5494.64000000	80261.80000000	37506.50000000	14862.20000000	9746.84000000	8398.61000000	3274.07000000
Int RSD	*3.06598794*	*0.64872704*	*0.63393545*	*0.95495956*	*0.95588622*	*0.09319697*	*7.41312800*
Int SD	*168.46500000*	*520.68000000*	*237.76700000*	*141.92800000*	*93.16870000*	*7.82725000*	*242.71100000*
RelInt Mean	0.01488800	0.09012930	0.03154670	0.00023161	-0.00038392	0.00003585	0.01755000
RelInt RSD	*2.27252149*	*0.52107583*	*0.50972685*	*67.42195933*	*23.28237614*	*62.71566992*	*6.76159544*
RelInt SD	*0.00033833*	*0.00046964*	*0.00016080*	*0.00015616*	*0.00008939*	*0.00002249*	*0.00118666*
Conc Mean	0.13728300[mg/l]	0.89980100[mg/l]	0.95204300[mg/l]	0.01178160[mg/l]	<-0.02442920[mg/l]	<-0.00070082[mg/l]	0.01557210[mg/l]
Conc RSD	*3.47361290*	*0.52210767*	*0.52331880*	*71.59596320*	*24.09391220*	*58.50692686*	*6.53624110*
Conc SD	*0.00476868[mg/l]*	*0.00469793[mg/l]*	*0.00498222[mg/l]*	*0.00843515[mg/l]*	*0.00588595[mg/l]*	*0.00041003[mg/l]*	*0.00101783[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	41274.50000000	8532.02000000	81321.60000000	829899	25353900	175568	196491
Int RSD	*0.33937904*	*0.84392793*	*1.27251554*	*0.28806879*	*0.06926587*	*0.40979507*	*0.48084442*
Int SD	*140.07700000*	*72.00410000*	*1034.83000000*	*2390.68000000*	*17561.60000000*	*719.46900000*	*944.81600000*
RelInt Mean	0.00019088	0.00008623	0.00283992	---	---	---	0.22190300
RelInt RSD	*5.14127428*	*163.88054890*	*1.49026381*	---	---	---	*0.26031690*
RelInt SD	*0.00000981*	*0.00014132*	*0.00004232*	---	---	---	*0.00057765*
Conc Mean	0.00179331[mg/l]	<0.00782722[mg/l]	0.51227800[mg/l]	822880	25292400	175340	0.90636600[mg/l]
Conc RSD	*5.06106585*	*83.97451458*	*1.50631103*	---	---	---	*0.26073132*
Conc SD	*0.00009076[mg/l]*	*0.00657287[mg/l]*	*0.00771650[mg/l]*	*2395.50000000*	*18142.90000000*	*726.04800000*	*0.00236318[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	20473.30000000	1711.18000000	10279.90000000	7092.03000000	221695	7470.48000000	
Int RSD	*2.58558220*	*8.96784675*	*1.00676077*	*0.68343761*	*0.35358037*	*0.30980740*	
Int SD	*529.35400000*	*153.45600000*	*103.49400000*	*48.46960000*	*783.87000000*	*23.14410000*	
RelInt Mean	0.11585500	0.00098641	0.00414287	0.00087652	0.26116000	-0.00027739	
RelInt RSD	*2.29153683*	*36.98222543*	*5.30892835*	*6.86721353*	*0.13897687*	*2.64454354*	
RelInt SD	*0.00265486*	*0.00036480*	*0.00021994*	*0.00006019*	*0.00036295*	*0.00000734*	
Conc Mean	0.50178800[mg/l]	<0.00028540[mg/l]	0.00572286[mg/l]	<0.00346886[mg/l]	1.01579000[mg/l]	<-0.02261090[mg/l]	
Conc RSD	*2.27297185*	*244.26831490*	*59.72293573*	*64.80717008*	*0.13888993*	*3.13391771*	
Conc SD	*0.01140550[mg/l]*	*0.00069713[mg/l]*	*0.00341786[mg/l]*	*0.00224807[mg/l]*	*0.00141083[mg/l]*	*0.00070861[mg/l]*	

ENTHALPY CONTINUING CALIBRATION FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607145	File:	met06_master	Time:	23-DEC-2022 17:08
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0277	0.0322	1.000	1.052	mg/l	5	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	26365100	-13.46
Yttrium	A	919101	911510	-0.83
Yttrium	R	186284	175563	-5.76

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: CCV,S17413	Sample Type: Control Sample		
Measure Date: 2022-12-23 17:08:14	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	354357	3458.71000000	21132.40000000	86032.00000000	310168	226943	154807
Int RSD	*1.54636426*	*1.13738648*	*0.33703697*	*0.18149758*	*0.43258815*	*0.27235429*	*0.41496379*
Int SD	*5479.65000000*	*39.33890000*	*71.22400000*	*156.14600000*	*1341.75000000*	*618.08900000*	*642.39300000*
RelInt Mean	0.01216780	0.01284670	0.02047100	0.08932270	0.33671600	1.29414000	0.16517700
RelInt RSD	*1.27456894*	*1.27794687*	*0.29441258*	*0.25369363*	*0.42943311*	*0.46758233*	*0.43237073*
RelInt SD	*0.00015509*	*0.00016417*	*0.00006027*	*0.00022661*	*0.00144597*	*0.00605117*	*0.00071418*
Conc Mean	0.48630200[mg/l]	0.95534700[mg/l]	1.10339000[mg/l]	1.04496000[mg/l]	1.01582000[mg/l]	106.05000000[mg/l]	1.01831000[mg/l]
Conc RSD	*1.27743254*	*1.58235699*	*0.29307498*	*0.25765388*	*0.42783072*	*0.46773692*	*0.43274445*
Conc SD	*0.00621218[mg/l]*	*0.01511700[mg/l]*	*0.00323376[mg/l]*	*0.00269238[mg/l]*	*0.00434599[mg/l]*	*0.49603500[mg/l]*	*0.00440668[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	132174	890415	303003	177277	91785.90000000	1535490	134476
Int RSD	*0.55238474*	*1.60935070*	*1.66038290*	*1.94699820*	*0.92818505*	*0.35963829*	*0.83730926*
Int SD	*730.10900000*	*14329.90000000*	*5031.01000000*	*3451.58000000*	*851.94300000*	*5522.21000000*	*1125.98000000*
RelInt Mean	0.14012900	0.03256470	0.32784400	1.00944000	0.51920800	1.68917000	0.14496000
RelInt RSD	*0.53709082*	*1.45344499*	*1.66886995*	*1.69519734*	*1.24373469*	*0.34651101*	*0.90335955*
RelInt SD	*0.00075262*	*0.00047331*	*0.00547129*	*0.01711200*	*0.00645757*	*0.00585316*	*0.00130951*
Conc Mean	0.98641100[mg/l]	0.98202000[mg/l]	1.06835000[mg/l]	97.13980000[mg/l]	107.59100000[mg/l]	1.00507000[mg/l]	1.06328000[mg/l]
Conc RSD	*0.53737235*	*1.46123297*	*1.67045444*	*1.69401214*	*1.24266900*	*0.34670222*	*0.90339704*
Conc SD	*0.00530070[mg/l]*	*0.01434960[mg/l]*	*0.01784630[mg/l]*	*1.64556000[mg/l]*	*1.33700000[mg/l]*	*0.00348460[mg/l]*	*0.00960564[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1065230	96863.00000000	34356.60000000	21108.70000000	16469.10000000	249888	214729
Int RSD	*1.27003558*	*0.73779668*	*0.34609653*	*2.10489988*	*0.67765087*	*0.46133068*	*0.92507300*
Int SD	*13528.80000000*	*714.65200000*	*118.90700000*	*444.31700000*	*111.60300000*	*1152.81000000*	*1986.40000000*
RelInt Mean	6.04023000	0.10086800	0.03216120	0.01934940	0.01527340	0.27331000	1.22355000
RelInt RSD	*1.01559378*	*0.71962862*	*0.52478763*	*2.71893702*	*0.86845758*	*0.53803373*	*0.54468228*
RelInt SD	*0.06134420*	*0.00072588*	*0.00016878*	*0.00052610*	*0.00013264*	*0.00147050*	*0.00666446*
Conc Mean	85.06340000[mg/l]	1.00722000[mg/l]	1.05245000[mg/l]	1.04235000[mg/l]	1.00660000[mg/l]	4.98251000[mg/l]	1.04998000[mg/l]
Conc RSD	*1.01649946*	*0.72111753*	*0.52417217*	*2.72699189*	*0.86794357*	*0.53818457*	*0.54448942*
Conc SD	*0.86466900[mg/l]*	*0.00726324[mg/l]*	*0.00551665[mg/l]*	*0.02842480[mg/l]*	*0.00873672[mg/l]*	*0.02681510[mg/l]*	*0.00571703[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	3077480	21283.30000000	156918	911510	26365100	175563	236700
Int RSD	*0.93479080*	*0.25179601*	*1.62766540*	*0.10318790*	*0.79743297*	*0.46088014*	*0.64116603*
Int SD	*28768.00000000*	*53.59050000*	*2554.10000000*	*940.56800000*	*210244*	*809.13500000*	*1517.64000000*
RelInt Mean	0.11537500	0.02071280	0.00565990	---	---	---	0.25760400
RelInt RSD	*0.68212524*	*0.35294311*	*1.33774272*	---	---	---	*0.59434636*
RelInt SD	*0.00078700*	*0.00007310*	*0.00007571*	---	---	---	*0.00153106*
Conc Mean	1.06705000[mg/l]	0.96157800[mg/l]	1.02602000[mg/l]	905261	26309200	175295	1.05227000[mg/l]
Conc RSD	*0.68225669*	*0.34945163*	*1.34542212*	---	---	---	*0.59565796*
Conc SD	*0.00728002[mg/l]*	*0.00336025[mg/l]*	*0.01380430[mg/l]*	*956.09200000*	*209938*	*771.49500000*	*0.00626793[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	43216.50000000	98374.60000000	316156	140395	248272	57137.20000000	
Int RSD	*0.93005449*	*1.43507572*	*0.47311454*	*0.19791303*	*0.39500024*	*0.50455570*	
Int SD	*401.93700000*	*1411.75000000*	*1495.78000000*	*277.86000000*	*980.67500000*	*288.28900000*	
RelInt Mean	0.24574500	0.54534600	0.34286200	0.15194500	0.26820900	0.05969210	
RelInt RSD	*0.96098395*	*1.68844733*	*0.48940682*	*0.23790582*	*0.40145558*	*0.65554236*	
RelInt SD	*0.00236157*	*0.00920788*	*0.00167799*	*0.00036149*	*0.00107674*	*0.00039131*	
Conc Mean	1.05983000[mg/l]	1.04057000[mg/l]	5.27138000[mg/l]	5.64565000[mg/l]	1.03921000[mg/l]	5.77040000[mg/l]	
Conc RSD	*0.95741770*	*1.69099628*	*0.49298666*	*0.23935419*	*0.40205637*	*0.65500485*	
Conc SD	*0.01014700[mg/l]*	*0.01759600[mg/l]*	*0.02598720[mg/l]*	*0.01351310[mg/l]*	*0.00417821[mg/l]*	*0.03779640[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607147	File:	met06_master	Time:	23-DEC-2022 17:16
Cal:	482514607001	Caldate:	23-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	28627000	-6.03
Yttrium	A	919101	984737	7.14
Yttrium	R	186284	174551	-6.30

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICB,1			Sample Type: Control Sample
Measure Date: 2022-12-23 17:16:15	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	34630.30000000	722.36400000	2185.90000000	6175.79000000	4985.02000000	56.27630000	4664.79000000
Int RSD	*0.69764339*	*4.93870126*	*0.73282858*	*0.60058389*	*0.79589651*	*90.22963486*	*0.57770232*
Int SD	*241.59600000*	*35.67540000*	*16.01890000*	*37.09080000*	*39.67560000*	*50.77790000*	*26.94860000*
RelInt Mean	0.00003389	0.00275941	-0.00005513	0.00153990	0.00014176	0.00013073	0.00000790
RelInt RSD	*33.89418395*	*35.21738343*	*31.99081447*	*1.25390610*	*14.24324934*	*155.75418225*	*679.62267160*
RelInt SD	*0.00001149*	*0.00097179*	*0.00001764*	*0.00001931*	*0.00002019*	*0.00020362*	*0.00005370*
Conc Mean	<0.00029926[mg/l]	<0.02638200[mg/l]	<0.00202117[mg/l]	<0.00076889[mg/l]	<0.00003602[mg/l]	<0.00367713[mg/l]	<-0.00016910[mg/l]
Conc RSD	*153.73315868*	*339.22636646*	*46.86320300*	*29.86756250*	*182.69231837*	*453.80500553*	*196.17504435*
Conc SD	*0.00046007[mg/l]*	*0.08949470[mg/l]*	*0.00094718[mg/l]*	*0.00022965[mg/l]*	*0.00006581[mg/l]*	*0.01668700[mg/l]*	*0.00033173[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4621.76000000	35794.20000000	7942.06000000	-232.23900000	504.50700000	5666.30000000	3864.95000000
Int RSD	*1.55268988*	*0.27801795*	*2.94591076*	*33.28924083*	*13.99167901*	*0.61543159*	*5.53381027*
Int SD	*71.76160000*	*99.51430000*	*233.96600000*	*77.31060000*	*70.58900000*	*34.87220000*	*213.87900000*
RelInt Mean	0.00009242	0.00016216	0.00233083	-0.00088917	-0.00039523	0.00007843	0.00098194
RelInt RSD	*69.59805846*	*3.26228548*	*10.77418774*	*45.56282826*	*67.67562015*	*72.97048841*	*21.71767783*
RelInt SD	*0.00006432*	*0.00000529*	*0.00025113*	*0.00040513*	*0.00026747*	*0.00005723*	*0.00021326*
Conc Mean	<0.00032758[mg/l]	<-0.00028504[mg/l]	0.00653107[mg/l]	<-0.02875120[mg/l]	<0.02837510[mg/l]	<-0.00006571[mg/l]	0.00661406[mg/l]
Conc RSD	*138.26924192*	*56.26302458*	*12.54278395*	*135.51990873*	*195.13411406*	*51.82665808*	*23.66307533*
Conc SD	*0.00045294[mg/l]*	*0.00016037[mg/l]*	*0.00081918[mg/l]*	*0.03896360[mg/l]*	*0.05536950[mg/l]*	*0.00003406[mg/l]*	*0.00156509[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	6848.50000000	5146.25000000	4752.06000000	3384.85000000	2435.09000000	2245.86000000	91.01690000
Int RSD	*1.38747025*	*0.22402526*	*1.06845242*	*1.15155177*	*1.55161822*	*0.45360352*	*55.30961832*
Int SD	*95.02090000*	*11.52890000*	*50.77350000*	*38.97830000*	*37.78330000*	*10.18730000*	*50.34110000*
RelInt Mean	0.01746080	0.00018072	-0.00010434	0.00013336	0.00003668	0.00009615	-0.00078481
RelInt RSD	*1.02897347*	*18.57688285*	*52.59342323*	*20.73213710*	*85.78400499*	*17.12749760*	*58.04045040*
RelInt SD	*0.00017967*	*0.00003357*	*0.00005487*	*0.00002765*	*0.00003146*	*0.00001647*	*0.00045551*
Conc Mean	0.17354700[mg/l]	<-0.00001171[mg/l]	<-0.00178985[mg/l]	0.00931025[mg/l]	<0.00326682[mg/l]	<0.00039874[mg/l]	<-0.00015402[mg/l]
Conc RSD	*1.45915516*	*2868.15945891*	*99.49269492*	*16.03920410*	*63.42161490*	*75.31323670*	*253.67464208*
Conc SD	*0.00253232[mg/l]*	*0.00033585[mg/l]*	*0.00178077[mg/l]*	*0.00149329[mg/l]*	*0.00207187[mg/l]*	*0.00030030[mg/l]*	*0.00039070[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	40838.30000000	2136.22000000	7950.80000000	984737	28627000	174551	3314.38000000
Int RSD	*0.26316717*	*0.27049883*	*2.10814006*	*0.26020552*	*0.50010829*	*0.08437419*	*0.82000857*
Int SD	*107.47300000*	*5.77845000*	*167.61400000*	*2562.34000000*	*143166*	*147.27600000*	*27.17820000*
RelInt Mean	0.00012994	-0.00005197	0.00002792	---	---	---	0.00022239
RelInt RSD	*1.41763696*	*28.64449045*	*25.72045222*	---	---	---	*5.34158921*
RelInt SD	*0.00000184*	*0.00001489*	*0.00000718*	---	---	---	*0.00001188*
Conc Mean	0.00122971[mg/l]	<0.00137229[mg/l]	<-0.00043281[mg/l]	978748	28572200	174219	<-0.00093386[mg/l]
Conc RSD	*1.38525343*	*50.72972914*	*302.58451785*	---	---	---	*5.22905905*
Conc SD	*0.00001703[mg/l]*	*0.00069616[mg/l]*	*0.00130961[mg/l]*	*2594.50000000*	*143463*	*219.23600000*	*0.00004883[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-151.56000000	2364.88000000	8578.06000000	2936.17000000	4728.34000000	2686.68000000	
Int RSD	*28.23330694*	*0.23330782*	*1.00858819*	*1.34586894*	*0.12826595*	*0.76849495*	
Int SD	*42.79040000*	*5.51745000*	*86.51730000*	*39.51700000*	*6.06485000*	*20.64700000*	
RelInt Mean	-0.00176118	0.00117559	0.00373178	0.00073631	0.00009691	0.00004130	
RelInt RSD	*9.98949568*	*31.86876377*	*2.79349265*	*5.32841422*	*19.77098622*	*2.92282474*	
RelInt SD	*0.00017593*	*0.00037465*	*0.00010425*	*0.00003923*	*0.00001916*	*0.00000121*	
Conc Mean	<-0.00352148[mg/l]	<0.00064693[mg/l]	<-0.00094187[mg/l]	<-0.00176775[mg/l]	<-0.00001778[mg/l]	0.00817405[mg/l]	
Conc RSD	*21.46381635*	*110.66979529*	*169.47934262*	*82.89124593*	*405.80553728*	*1.42655110*	
Conc SD	*0.00075584[mg/l]*	*0.00071596[mg/l]*	*0.00159627[mg/l]*	*0.00146531[mg/l]*	*0.00007216[mg/l]*	*0.00011661[mg/l]*	

ENTHALPY CONTINUING CALIBRATION FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607158	File:	met06_master	Time:	23-DEC-2022 17:52
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0277	0.0316	1.000	1.035	mg/l	3	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	28092400	-7.79
Yttrium	A	919101	969038	5.43
Yttrium	R	186284	180703	-3.00

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: CCV,S17413			Sample Type: Control Sample
Measure Date: 2022-12-23 17:52:01	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	372747	3635.80000000	21967.70000000	88333.40000000	326969	232981	163016
Int RSD	*0.99788597*	*1.32759503*	*0.74892228*	*1.07372749*	*0.68385382*	*0.48382057*	*0.79114934*
Int SD	*3719.59000000*	*48.26870000*	*164.52100000*	*948.46000000*	*2235.99000000*	*1127.21000000*	*1289.70000000*
RelInt Mean	0.01201000	0.01279450	0.02004340	0.08619940	0.33391700	1.29138000	0.16368100
RelInt RSD	*1.64136553*	*3.22397124*	*1.46241656*	*0.22511526*	*0.50405041*	*0.27790581*	*0.27131188*
RelInt SD	*0.00019713*	*0.00041249*	*0.00029312*	*0.00019405*	*0.00168311*	*0.00358882*	*0.00044409*
Conc Mean	0.47998100[mg/l]	0.95053700[mg/l]	1.08043000[mg/l]	1.00781000[mg/l]	1.00743000[mg/l]	105.82400000[mg/l]	1.00912000[mg/l]
Conc RSD	*1.64501303*	*3.99624633*	*1.45669780*	*0.22892906*	*0.50138471*	*0.27823934*	*0.26846559*
Conc SD	*0.00789575[mg/l]*	*0.03798580[mg/l]*	*0.01573860[mg/l]*	*0.00230717[mg/l]*	*0.00505110[mg/l]*	*0.29444400[mg/l]*	*0.00270914[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	139424	927923	312908	169379	93363.20000000	1615870	139408
Int RSD	*0.55651753*	*1.18925816*	*1.08070423*	*3.21506208*	*0.78713562*	*0.31079171*	*0.84890394*
Int SD	*775.91900000*	*11035.40000000*	*3381.61000000*	*5445.64000000*	*734.89500000*	*5021.99000000*	*1183.44000000*
RelInt Mean	0.13913200	0.03182930	0.31839800	0.93749200	0.51313100	1.67200000	0.14133700
RelInt RSD	*1.04347670*	*1.68471188*	*0.47879070*	*3.56628110*	*0.79442482*	*0.91268541*	*1.82397391*
RelInt SD	*0.00145181*	*0.00053623*	*0.00152446*	*0.03343360*	*0.00407644*	*0.01526010*	*0.00257795*
Conc Mean	0.97938900[mg/l]	0.95972600[mg/l]	1.03754000[mg/l]	90.22060000[mg/l]	106.33300000[mg/l]	0.99485000[mg/l]	1.03669000[mg/l]
Conc RSD	*1.04365068*	*1.69379594*	*0.47911695*	*3.56408625*	*0.79336518*	*0.91304217*	*1.82474993*
Conc SD	*0.01022140[mg/l]*	*0.01625580[mg/l]*	*0.00497103[mg/l]*	*3.21554000[mg/l]*	*0.84360900[mg/l]*	*0.00908340[mg/l]*	*0.01891700[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1031530	102113	35893.00000000	21632.80000000	16941.00000000	266202	218341
Int RSD	*2.38643568*	*0.76826163*	*0.64247068*	*2.07190470*	*0.60213683*	*0.48722023*	*0.30875420*
Int SD	*24616.80000000*	*784.49500000*	*230.60200000*	*448.21100000*	*102.00800000*	*1296.99000000*	*674.13700000*
RelInt Mean	5.68224000	0.10007900	0.03161600	0.01860970	0.01474330	0.27389400	1.20861000
RelInt RSD	*2.75822563*	*0.27337204*	*1.24857983*	*2.96764053*	*1.55070439*	*0.73382038*	*0.56346547*
RelInt SD	*0.15672900*	*0.00027359*	*0.00039475*	*0.00055227*	*0.00022862*	*0.00200989*	*0.00681010*
Conc Mean	80.01760000[mg/l]	0.99933200[mg/l]	1.03464000[mg/l]	1.00241000[mg/l]	0.97169500[mg/l]	4.99314000[mg/l]	1.03717000[mg/l]
Conc RSD	*2.76064266*	*0.27351371*	*1.24657852*	*2.97772369*	*1.54937506*	*0.73416728*	*0.56287976*
Conc SD	*2.20900000[mg/l]*	*0.00273331[mg/l]*	*0.01289760[mg/l]*	*0.02984900[mg/l]*	*0.01505520[mg/l]*	*0.03665800[mg/l]*	*0.00583802[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	3192660	22073.50000000	166892	969038	28092400	180703	251300
Int RSD	*1.15606109*	*0.37476567*	*0.90004913*	*1.09320790*	*0.58206134*	*0.34538386*	*0.65857143*
Int SD	*36909.10000000*	*82.72390000*	*1502.11000000*	*10593.60000000*	*163515*	*624.11900000*	*1654.99000000*
RelInt Mean	0.11231700	0.02017620	0.00564630	---	---	---	0.25724800
RelInt RSD	*1.71404151*	*1.16315758*	*1.55832846*	---	---	---	*0.86207084*
RelInt SD	*0.00192516*	*0.00023468*	*0.00008799*	---	---	---	*0.00221766*
Conc Mean	1.03876000[mg/l]	0.93676100[mg/l]	1.02355000[mg/l]	962540	28033800	180374	1.05081000[mg/l]
Conc RSD	*1.71420732*	*1.15495842*	*1.56660642*	---	---	---	*0.86339586*
Conc SD	*0.01780650[mg/l]*	*0.01081920[mg/l]*	*0.01603500[mg/l]*	*10631.90000000*	*163685*	*673.24500000*	*0.00907265[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	43744.00000000	96674.20000000	338322	149200	260658	59943.70000000	
Int RSD	*1.56225997*	*0.88270190*	*1.22395529*	*0.66561729*	*0.82606327*	*0.54141303*	
Int SD	*683.39500000*	*853.34500000*	*4140.91000000*	*993.10100000*	*2153.20000000*	*324.54300000*	
RelInt Mean	0.24173200	0.52008900	0.34521800	0.15197000	0.26490500	0.05897690	
RelInt RSD	*1.32821472*	*1.11092332*	*0.37657944*	*0.77531092*	*0.42297805*	*0.55786418*	
RelInt SD	*0.00321072*	*0.00577779*	*0.00130002*	*0.00117824*	*0.00112049*	*0.00032901*	
Conc Mean	1.04259000[mg/l]	0.99230200[mg/l]	5.30876000[mg/l]	5.64658000[mg/l]	1.02643000[mg/l]	5.70131000[mg/l]	
Conc RSD	*1.32325267*	*1.11288700*	*0.38617304*	*0.77913002*	*0.42312091*	*0.55749994*	
Conc SD	*0.01379610[mg/l]*	*0.01104320[mg/l]*	*0.02050100[mg/l]*	*0.04399420[mg/l]*	*0.00434304[mg/l]*	*0.03178480[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607159	File:	met06_master	Time:	23-DEC-2022 17:57
Cal:	482514607001	Caldate:	23-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	29987800	-1.57
Yttrium	A	919101	1023490	11.36
Yttrium	R	186284	180069	-3.34

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: ICB,1	Sample Type: Control Sample		
Measure Date: 2022-12-23 17:57:31	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	34584.40000000	714.59200000	2180.90000000	6232.66000000	4992.23000000	172.17600000	4685.15000000
Int RSD	*0.78513145*	*9.52171309*	*1.77788069*	*1.00983368*	*0.51342787*	*23.31480578*	*0.39108033*
Int SD	*271.53300000*	*68.04140000*	*38.77380000*	*62.93950000*	*25.63150000*	*40.14250000*	*18.32270000*
RelInt Mean	0.00002266	0.00256357	-0.00006056	0.00152349	0.00015761	0.00037983	0.00002001
RelInt RSD	*34.42338247*	*2.36142957*	*86.72131608*	*3.12127418*	*27.18958188*	*32.05054960*	*60.31419160*
RelInt SD	*0.00000780*	*0.00006054*	*0.00005251*	*0.00004755*	*0.00004285*	*0.00012174*	*0.00001207*
Conc Mean	<-0.00015057[mg/l]	<0.00834634[mg/l]	<0.00173023[mg/l]	<0.00057371[mg/l]	<0.00008184[mg/l]	<0.02409080[mg/l]	<-0.00009405[mg/l]
Conc RSD	*207.47620724*	*66.79538576*	*162.98873560*	*98.59214586*	*153.45629158*	*41.41215734*	*79.34406637*
Conc SD	*0.00031240[mg/l]*	*0.00557497[mg/l]*	*0.00282008[mg/l]*	*0.00056563[mg/l]*	*0.00012559[mg/l]*	*0.00997652[mg/l]*	*0.00007462[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4577.12000000	36069.60000000	7120.58000000	-123.89900000	376.82400000	5658.59000000	3970.00000000
Int RSD	*0.66807294*	*0.35215805*	*2.42358066*	*87.55680030*	*17.91050995*	*0.38986567*	*4.20410579*
Int SD	*30.57850000*	*127.02200000*	*172.57300000*	*108.48200000*	*67.49110000*	*22.06090000*	*166.90300000*
RelInt Mean	0.00002542	0.00015645	0.00143497	-0.00037301	-0.00107536	0.00008209	0.00106305
RelInt RSD	*85.07166717*	*5.59191957*	*12.50493042*	*138.12149808*	*16.06568963*	*63.87738769*	*17.04077889*
RelInt SD	*0.00002162*	*0.00000875*	*0.00017944*	*0.00051521*	*0.00017276*	*0.00005244*	*0.00018115*
Conc Mean	<-0.00014425[mg/l]	<-0.00045817[mg/l]	0.00360878[mg/l]	<0.02089070[mg/l]	<-0.11241800[mg/l]	<-0.00006353[mg/l]	0.00720931[mg/l]
Conc RSD	*105.55093382*	*57.88677615*	*16.22005221*	*237.18879693*	*31.81287694*	*49.11613280*	*18.44129327*
Conc SD	*0.00015225[mg/l]*	*0.00026522[mg/l]*	*0.00058535[mg/l]*	*0.04955040[mg/l]*	*0.03576340[mg/l]*	*0.00003121[mg/l]*	*0.00132949[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	6743.42000000	5137.41000000	4791.72000000	3319.63000000	2486.39000000	2314.37000000	102.43600000
Int RSD	*2.68767183*	*0.30210748*	*0.46711411*	*1.25177505*	*1.96204135*	*1.36545151*	*91.51313991*
Int SD	*181.24100000*	*15.52050000*	*22.38280000*	*41.55430000*	*48.78400000*	*31.60160000*	*93.74240000*
RelInt Mean	0.01602960	0.00016549	-0.00005635	0.00004309	0.00007591	0.00015047	-0.00089603
RelInt RSD	*0.96085367*	*13.21259804*	*64.00379759*	*119.44539843*	*37.39697101*	*24.07667821*	*57.36601513*
RelInt SD	*0.00015402*	*0.00002187*	*0.00003607*	*0.00005147*	*0.00002839*	*0.00003623*	*0.00051402*
Conc Mean	0.15337500[mg/l]	<-0.00016413[mg/l]	<-0.00021810[mg/l]	<0.00443302[mg/l]	0.00585045[mg/l]	0.00138929[mg/l]	<-0.00024941[mg/l]
Conc RSD	*1.41575224*	*133.26387747*	*539.94461307*	*62.76127786*	*31.95343948*	*47.55277876*	*176.76865280*
Conc SD	*0.00217141[mg/l]*	*0.00021873[mg/l]*	*0.00117763[mg/l]*	*0.00278222[mg/l]*	*0.00186942[mg/l]*	*0.00066065[mg/l]*	*0.00044088[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	40685.60000000	2139.89000000	7999.47000000	1023490	29987800	180069	3399.16000000
Int RSD	*0.94837977*	*0.63435036*	*3.23442678*	*0.04524412*	*0.43236249*	*0.89992725*	*0.85201050*
Int SD	*385.85400000*	*13.57440000*	*258.73700000*	*463.06900000*	*129656*	*1620.49000000*	*28.96120000*
RelInt Mean	0.00011257	-0.00005471	0.00002635	---	---	---	0.00027785
RelInt RSD	*4.46229491*	*4.29819943*	*25.30901957*	---	---	---	*20.52941473*
RelInt SD	*0.00000502*	*0.00000235*	*0.00000667*	---	---	---	*0.00005704*
Conc Mean	0.00106905[mg/l]	<0.00124399[mg/l]	<-0.00071802[mg/l]	1017470	29932500	179747	<-0.00070655[mg/l]
Conc RSD	*4.34568074*	*8.55907202*	*169.43121362*	---	---	---	*33.05852381*
Conc SD	*0.00004646[mg/l]*	*0.00010647[mg/l]*	*0.00121655[mg/l]*	*440.34100000*	*129461*	*1638.43000000*	*0.00023358[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	34.67430000	2320.35000000	8539.09000000	2916.78000000	4733.93000000	2700.69000000	
Int RSD	*86.51450786*	*7.05833172*	*0.53878809*	*1.82457367*	*0.76824541*	*1.49287775*	
Int SD	*29.99830000*	*163.77800000*	*46.00760000*	*53.21880000*	*36.36820000*	*40.31800000*	
RelInt Mean	-0.00067680	0.00079129	0.00356203	0.00067942	0.00008585	0.00004704	
RelInt RSD	*14.66286250*	*16.19330460*	*1.07465687*	*5.76241949*	*52.53711559*	*87.12020715*	
RelInt SD	*0.00009924*	*0.00012814*	*0.00003828*	*0.00003915*	*0.00004510*	*0.00004098*	
Conc Mean	0.00113729[mg/l]	<-0.00008748[mg/l]	<-0.00360624[mg/l]	<-0.00389266[mg/l]	<-0.00005975[mg/l]	0.00872836[mg/l]	
Conc RSD	*37.48841544*	*279.92180891*	*15.76966591*	*37.56351698*	*301.45593126*	*45.35433919*	
Conc SD	*0.00042635[mg/l]*	*0.00024487[mg/l]*	*0.00056869[mg/l]*	*0.00146222[mg/l]*	*0.00018012[mg/l]*	*0.00395869[mg/l]*	

ENTHALPY CONTINUING CALIBRATION FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607170	File:	met06_master	Time:	23-DEC-2022 18:33
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0277	0.0316	1.000	1.035	mg/l	3	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	27635600	-9.29
Yttrium	A	919101	979280	6.55
Yttrium	R	186284	183976	-1.24

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: CCV,S17413			Sample Type: Control Sample
Measure Date: 2022-12-23 18:33:57	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	366993	3682.12000000	21883.80000000	87845.20000000	328153	235714	163793
Int RSD	*1.29338434*	*3.70683193*	*1.21451942*	*0.93048567*	*0.09861650*	*0.27457470*	*0.33872998*
Int SD	*4746.63000000*	*136.49000000*	*265.78300000*	*817.38700000*	*323.61300000*	*647.21100000*	*554.81600000*
RelInt Mean	0.01200010	0.01284220	0.01974660	0.08482140	0.33161300	1.28279000	0.16275900
RelInt RSD	*1.81477654*	*9.52212238*	*1.50557058*	*0.96309068*	*0.09693739*	*0.29738071*	*0.35555269*
RelInt SD	*0.00021777*	*0.00122285*	*0.00029730*	*0.00081691*	*0.00032146*	*0.00381477*	*0.00057869*
Conc Mean	0.47958500[mg/l]	0.95492600[mg/l]	1.06451000[mg/l]	0.99141700[mg/l]	1.00048000[mg/l]	105.12000000[mg/l]	1.00343000[mg/l]
Conc RSD	*1.81884755*	*11.79306040*	*1.49995773*	*0.98015870*	*0.09422497*	*0.29768836*	*0.35790638*
Conc SD	*0.00872292[mg/l]*	*0.11261500[mg/l]*	*0.01596720[mg/l]*	*0.00971746[mg/l]*	*0.00094270[mg/l]*	*0.31293000[mg/l]*	*0.00359134[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	139138	913342	310482	169894	93976.90000000	1601220	140118
Int RSD	*0.51711969*	*1.42345365*	*0.41552489*	*3.47006369*	*0.89743437*	*0.32522327*	*1.20641888*
Int SD	*719.51000000*	*13001.00000000*	*1290.13000000*	*5895.43000000*	*843.38100000*	*5207.54000000*	*1690.41000000*
RelInt Mean	0.13740200	0.03183940	0.31255100	0.92327600	0.50712400	1.63914000	0.14057100
RelInt RSD	*0.51704051*	*1.73757043*	*0.40934759*	*3.46137016*	*0.89207373*	*0.33011884*	*1.25028633*
RelInt SD	*0.00071042*	*0.00055323*	*0.00127942*	*0.03195800*	*0.00452392*	*0.00541111*	*0.00175754*
Conc Mean	0.96720600[mg/l]	0.96003200[mg/l]	1.01846000[mg/l]	88.85340000[mg/l]	105.09000000[mg/l]	0.97530000[mg/l]	1.03107000[mg/l]
Conc RSD	*0.51718869*	*1.74684802*	*0.40957720*	*3.45915857*	*0.89114854*	*0.33013124*	*1.25072982*
Conc SD	*0.00500228[mg/l]*	*0.01677030[mg/l]*	*0.00417138[mg/l]*	*3.07358000[mg/l]*	*0.93650800[mg/l]*	*0.00321977[mg/l]*	*0.01289590[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1031200	102112	36170.90000000	21639.40000000	17093.70000000	265990	220668
Int RSD	*3.31178239*	*0.37175944*	*0.41016397*	*1.46317828*	*1.79113943*	*0.12770104*	*0.51632770*
Int SD	*34151.10000000*	*379.61100000*	*148.36000000*	*316.62300000*	*306.17200000*	*339.67200000*	*1139.37000000*
RelInt Mean	5.58013000	0.09910150	0.03162340	0.01845160	0.01474790	0.27076200	1.20005000
RelInt RSD	*3.31680445*	*0.35476960*	*0.44283031*	*1.80388151*	*2.20183891*	*0.14099874*	*0.50309570*
RelInt SD	*0.18508200*	*0.00035158*	*0.00014004*	*0.00033285*	*0.00032472*	*0.00038177*	*0.00603740*
Conc Mean	78.57830000[mg/l]	0.98955600[mg/l]	1.03488000[mg/l]	0.99393200[mg/l]	0.97199700[mg/l]	4.93604000[mg/l]	1.02983000[mg/l]
Conc RSD	*3.31986057*	*0.35544729*	*0.44273249*	*1.81124061*	*2.19995535*	*0.14088662*	*0.50282085*
Conc SD	*2.60869000[mg/l]*	*0.00351735[mg/l]*	*0.00458175[mg/l]*	*0.01800250[mg/l]*	*0.02138350[mg/l]*	*0.00695422[mg/l]*	*0.00517820[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	3118630	21899.50000000	163824	979280	27635600	183976	252031
Int RSD	*1.53420252*	*0.48819379*	*1.63993676*	*0.01460042*	*0.48005833*	*0.04518981*	*0.24155878*
Int SD	*47846.10000000*	*106.91200000*	*2686.61000000*	*142.97900000*	*132667*	*83.13840000*	*608.80300000*
RelInt Mean	0.11149600	0.01981370	0.00562842	---	---	---	0.25532900
RelInt RSD	*1.88153835*	*0.53073379*	*1.93549877*	---	---	---	*0.23680663*
RelInt SD	*0.00209784*	*0.00010516*	*0.00010894*	---	---	---	*0.00060464*
Conc Mean	1.03117000[mg/l]	0.91993800[mg/l]	1.02029000[mg/l]	972866	27577100	183632	1.04296000[mg/l]
Conc RSD	*1.88157142*	*0.52611046*	*1.94626038*	---	---	---	*0.23721619*
Conc SD	*0.01940220[mg/l]*	*0.00483989[mg/l]*	*0.01985750[mg/l]*	*110.36500000*	*132241*	*66.51570000*	*0.00247407[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	44504.60000000	94317.10000000	335421	150349	262460	60422.70000000	
Int RSD	*1.20343964*	*1.77101501*	*0.44214882*	*0.26109718*	*0.13700640*	*0.17768322*	
Int SD	*535.58600000*	*1670.37000000*	*1483.06000000*	*392.55700000*	*359.58700000*	*107.36100000*	
RelInt Mean	0.24130400	0.49763200	0.33857100	0.15155400	0.26402300	0.05886020	
RelInt RSD	*1.08375327*	*1.71472494*	*0.46594363*	*0.24513903*	*0.11834158*	*0.18805746*	
RelInt SD	*0.00261514*	*0.00853302*	*0.00157755*	*0.00037152*	*0.00031245*	*0.00011069*	
Conc Mean	1.04075000[mg/l]	0.94938500[mg/l]	5.20508000[mg/l]	5.63105000[mg/l]	1.02306000[mg/l]	5.69004000[mg/l]	
Conc RSD	*1.07923132*	*1.71764879*	*0.47893020*	*0.24644072*	*0.12457529*	*0.18793717*	
Conc SD	*0.01123210[mg/l]*	*0.01630710[mg/l]*	*0.02492870[mg/l]*	*0.01387720[mg/l]*	*0.00127448[mg/l]*	*0.01069370[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607171	File:	met06_master	Time:	23-DEC-2022 18:37
Cal:	482514607001	Caldate:	23-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	30806600	1.12
Yttrium	A	919101	1069160	16.33
Yttrium	R	186284	188999	1.46

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: CCB,1	Sample Type: Control Sample		
Measure Date: 2022-12-23 18:37:11	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	33950.70000000	783.55400000	2196.93000000	6233.20000000	4810.04000000	120.86400000	4512.94000000
Int RSD	*0.61421119*	*7.69211822*	*2.11899332*	*0.54505551*	*0.76866097*	*26.79424808*	*0.59672409*
Int SD	*208.52900000*	*60.27190000*	*46.55280000*	*33.97440000*	*36.97290000*	*32.38460000*	*26.92980000*
RelInt Mean	0.00003310	0.00242618	0.00003425	0.00160322	0.00013204	0.00048864	0.00000895
RelInt RSD	*25.18178715*	*13.29431452*	*109.51050462*	*1.69306770*	*7.35742415*	*138.59682872*	*138.34648662*
RelInt SD	*0.00000834*	*0.00032254*	*0.00003751*	*0.00002714*	*0.00000971*	*0.00067723*	*0.00001238*
Conc Mean	<0.00026774[mg/l]	<-0.00430640[mg/l]	0.00682109[mg/l]	0.00152213[mg/l]	<-0.00007916[mg/l]	<0.03300810[mg/l]	<-0.00017132[mg/l]
Conc RSD	*124.69896168*	*689.75942783*	*29.53281660*	*21.21343118*	*52.78517135*	*168.14206210*	*45.51290582*
Conc SD	*0.00033387[mg/l]*	*0.02970380[mg/l]*	*0.00201446[mg/l]*	*0.00032290[mg/l]*	*0.00004178[mg/l]*	*0.05550050[mg/l]*	*0.00007797[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4462.74000000	36507.80000000	8055.47000000	-233.53700000	531.11700000	5527.35000000	7225.68000000
Int RSD	*0.60861041*	*1.50781477*	*6.38944717*	*31.00497994*	*4.58373579*	*0.64327752*	*21.21336677*
Int SD	*27.16070000*	*550.47000000*	*514.70000000*	*72.40810000*	*24.34500000*	*35.55620000*	*1532.81000000*
RelInt Mean	0.00006360	0.00018884	0.00244820	-0.00072659	-0.00060316	0.00011948	0.00417003
RelInt RSD	*68.47586495*	*9.04378862*	*20.48684748*	*21.36168327*	*38.13588125*	*37.14509298*	*34.68128527*
RelInt SD	*0.00004355*	*0.00001708*	*0.00050156*	*0.00015521*	*0.00023002*	*0.00004438*	*0.00144622*
Conc Mean	<0.00012466[mg/l]	<0.00052366[mg/l]	0.00691394[mg/l]	<-0.01311470[mg/l]	<-0.01466850[mg/l]	<-0.00004128[mg/l]	0.03001180[mg/l]
Conc RSD	*246.01562625*	*98.87007700*	*23.66335259*	*113.82265702*	*324.61669564*	*63.97327765*	*35.36575614*
Conc SD	*0.00030669[mg/l]*	*0.00051775[mg/l]*	*0.00163607[mg/l]*	*0.01492750[mg/l]*	*0.04761640[mg/l]*	*0.00002641[mg/l]*	*0.01061390[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	6491.47000000	5010.02000000	4666.66000000	3741.22000000	2633.53000000	2888.00000000	225.53200000
Int RSD	*2.20444676*	*0.33377511*	*0.29110327*	*3.46854769*	*4.17580206*	*10.48628809*	*27.20429917*
Int SD	*143.10100000*	*16.72220000*	*13.58480000*	*129.76600000*	*109.97100000*	*302.84400000*	*61.35440000*
RelInt Mean	0.01465060	0.00018958	-0.00002302	0.00055328	0.00028917	0.00074436	-0.00022240
RelInt RSD	*2.52780091*	*3.82321013*	*132.14369489*	*21.00021689*	*41.88372318*	*37.60907094*	*187.00826877*
RelInt SD	*0.00037034*	*0.00000725*	*0.00003042*	*0.00011619*	*0.00012112*	*0.00027995*	*0.00041591*
Conc Mean	0.13393700[mg/l]	<0.00007690[mg/l]	<0.00087365[mg/l]	0.03201230[mg/l]	0.01989350[mg/l]	0.01221880[mg/l]	<0.00032837[mg/l]
Conc RSD	*3.89688436*	*94.28823318*	*113.59827392*	*19.62589380*	*40.09058235*	*41.77840704*	*108.63712912*
Conc SD	*0.00521937[mg/l]*	*0.00007251[mg/l]*	*0.00099246[mg/l]*	*0.00628270[mg/l]*	*0.00797542[mg/l]*	*0.00510482[mg/l]*	*0.00035673[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	57181.90000000	2176.92000000	8071.34000000	1069160	30806600	188999	3379.81000000
Int RSD	*5.10495454*	*2.45626849*	*1.63057188*	*0.33860040*	*0.29939948*	*0.33915047*	*0.48119865*
Int SD	*2919.11000000*	*53.47100000*	*131.60900000*	*3620.18000000*	*92234.80000000*	*640.99100000*	*16.26360000*
RelInt Mean	0.00067576	0.00005205	0.00003575	---	---	---	0.00035767
RelInt RSD	*14.22857397*	*104.56773118*	*8.42899618*	---	---	---	*4.44722789*
RelInt SD	*0.00009615*	*0.00005443*	*0.00000301*	---	---	---	*0.00001591*
Conc Mean	0.00627754[mg/l]	0.00613510[mg/l]	<0.00098684[mg/l]	1063320	30751500	188647	<-0.00037992[mg/l]
Conc RSD	*14.16527812*	*40.76429072*	*55.26460324*	---	---	---	*17.17501796*
Conc SD	*0.00088923[mg/l]*	*0.00250093[mg/l]*	*0.00054537[mg/l]*	*3579.03000000*	*92069.80000000*	*634.14000000*	*0.00006525[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	17.76230000	2338.98000000	8538.18000000	2790.16000000	4594.55000000	2584.89000000	
Int RSD	*391.26858571*	*8.46368930*	*0.15746096*	*2.13653339*	*0.70612356*	*1.26411182*	
Int SD	*69.49830000*	*197.96400000*	*13.44430000*	*59.61270000*	*32.44320000*	*32.67590000*	
RelInt Mean	-0.00040195	0.00099344	0.00355768	0.00060295	0.00010008	0.00001536	
RelInt RSD	*76.54472718*	*48.60776695*	*0.88991984*	*9.81056598*	*37.92845723*	*225.89406647*	
RelInt SD	*0.00030767*	*0.00048289*	*0.00003166*	*0.00005915*	*0.00003796*	*0.00003469*	
Conc Mean	0.00231813[mg/l]	<0.00029884[mg/l]	<-0.00418726[mg/l]	<-0.00674840[mg/l]	<-0.00002292[mg/l]	<0.00566788[mg/l]	
Conc RSD	*57.02139224*	*308.80106010*	*15.32914125*	*32.73783415*	*659.32070992*	*59.12351708*	
Conc SD	*0.00132183[mg/l]*	*0.00092282[mg/l]*	*0.00064187[mg/l]*	*0.00220928[mg/l]*	*0.00015108[mg/l]*	*0.00335105[mg/l]*	

ENTHALPY CONTINUING CALIBRATION FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607182	File:	met06_master	Time:	23-DEC-2022 19:13
Cal:	482514607001	Caldate:	23-DEC-2022		

Standards: S17413, S13369 (100X)

Analyte	Ch	Avg RF/CF	RF/CF	Spiked	Quant	Units	%D	Max %D	Flags
Lead	A	0.0277	0.0315	1.000	1.032	mg/l	3	10	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	26827900	-11.94
Yttrium	A	919101	978601	6.47
Yttrium	R	186284	177880	-4.51

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: CCV,S17413	Sample Type: Control Sample		
Measure Date: 2022-12-23 19:13:00	Recalculation Date:	State: Check failed	Quality: Failed | Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	355758	3457.51000000	21881.30000000	88177.60000000	327533	227492	163595
Int RSD	*1.57559633*	*3.08114799*	*1.20214521*	*0.73495196*	*0.55674085*	*0.17320785*	*0.65231822*
Int SD	*5605.31000000*	*106.53100000*	*263.04500000*	*648.06300000*	*1823.51000000*	*394.03400000*	*1067.16000000*
RelInt Mean	0.01194350	0.01242470	0.01976590	0.08519220	0.33122300	1.28048000	0.16263400
RelInt RSD	*1.53161971*	*0.84874484*	*0.48316798*	*1.03300067*	*0.46827062*	*0.21413220*	*0.48718103*
RelInt SD	*0.00018293*	*0.00010545*	*0.00009550*	*0.00088004*	*0.00155102*	*0.00274192*	*0.00079232*
Conc Mean	0.47731600[mg/l]	0.91647900[mg/l]	1.06555000[mg/l]	0.99582800[mg/l]	0.99929500[mg/l]	104.93100000[mg/l]	1.00261000[mg/l]
Conc RSD	*1.53522614*	*1.05934342*	*0.48118718*	*1.05117550*	*0.47377501*	*0.21365755*	*0.48857582*
Conc SD	*0.00732788[mg/l]*	*0.00970866[mg/l]*	*0.00512729[mg/l]*	*0.01046790[mg/l]*	*0.00473441[mg/l]*	*0.22419300[mg/l]*	*0.00489851[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	138311	882932	328184	170271	90698.60000000	1594470	139978
Int RSD	*0.57877103*	*1.78013709*	*3.08604320*	*2.65415720*	*1.47783979*	*0.91002026*	*1.97388875*
Int SD	*800.50400000*	*15717.40000000*	*10127.90000000*	*4519.26000000*	*1340.38000000*	*14510.00000000*	*2763.01000000*
RelInt Mean	0.13663300	0.03165930	0.33103600	0.95703800	0.50633100	1.63342000	0.14053300
RelInt RSD	*0.41284756*	*1.66536215*	*4.12601651*	*2.95927643*	*1.69730868*	*0.07470216*	*1.09867433*
RelInt SD	*0.00056409*	*0.00052724*	*0.01365860*	*0.02832140*	*0.00859400*	*0.00122020*	*0.00154400*
Conc Mean	0.96179300[mg/l]	0.95457200[mg/l]	1.07876000[mg/l]	92.10050000[mg/l]	104.92500000[mg/l]	0.97189600[mg/l]	1.03079000[mg/l]
Conc RSD	*0.41313879*	*1.67433153*	*4.13018651*	*2.95749752*	*1.69563021*	*0.07480080*	*1.09911815*
Conc SD	*0.00397354[mg/l]*	*0.01598270[mg/l]*	*0.04455480[mg/l]*	*2.72387000[mg/l]*	*1.77914000[mg/l]*	*0.00072699[mg/l]*	*0.01132960[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	1029540	102805	36062.30000000	21772.90000000	17064.00000000	265660	213330
Int RSD	*2.15803174*	*0.76493167*	*0.63898032*	*2.26491648*	*1.16520745*	*0.54202740*	*0.26795950*
Int SD	*22217.80000000*	*786.38800000*	*230.43100000*	*493.13800000*	*198.83100000*	*1439.95000000*	*571.63800000*
RelInt Mean	5.76177000	0.09984220	0.03152840	0.01856220	0.01472050	0.27063400	1.19969000
RelInt RSD	*2.45402021*	*0.15091815*	*0.18533481*	*1.93695252*	*0.56542848*	*0.42914416*	*0.44769982*
RelInt SD	*0.14139500*	*0.00015068*	*0.00005843*	*0.00035954*	*0.00008323*	*0.00116141*	*0.00537101*
Conc Mean	81.13860000[mg/l]	0.99696700[mg/l]	1.03178000[mg/l]	0.99994600[mg/l]	0.97019100[mg/l]	4.93371000[mg/l]	1.02951000[mg/l]
Conc RSD	*2.45622922*	*0.15140321*	*0.18501619*	*1.94641511*	*0.56485991*	*0.42920236*	*0.44732251*
Conc SD	*1.99295000[mg/l]*	*0.00150944[mg/l]*	*0.00190896[mg/l]*	*0.01946310[mg/l]*	*0.00548022[mg/l]*	*0.02117560[mg/l]*	*0.00460523[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	3130330	21676.70000000	157894	978601	26827900	177880	252278
Int RSD	*0.82758048*	*0.74493350*	*1.92892700*	*0.96531886*	*0.15871276*	*0.33057567*	*0.55713142*
Int SD	*25906.00000000*	*161.47700000*	*3045.66000000*	*9446.62000000*	*42579.30000000*	*588.02800000*	*1405.52000000*
RelInt Mean	0.11528400	0.01958450	0.00557649	---	---	---	0.25577600
RelInt RSD	*0.67944468*	*0.46910005*	*1.83830689*	---	---	---	*0.46163049*
RelInt SD	*0.00078329*	*0.00009187*	*0.00010251*	---	---	---	*0.00118074*
Conc Mean	1.06620000[mg/l]	0.90919100[mg/l]	1.01082000[mg/l]	972129	26770000	177564	1.04480000[mg/l]
Conc RSD	*0.67931157*	*0.47296223*	*1.84865753*	---	---	---	*0.46275651*
Conc SD	*0.00724282[mg/l]*	*0.00430013[mg/l]*	*0.01868660[mg/l]*	*9451.01000000*	*42371.50000000*	*528.24300000*	*0.00483488[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	42834.10000000	94404.60000000	334534	149993	262003	60833.80000000	
Int RSD	*2.01844558*	*1.57144885*	*0.23259848*	*0.73172081*	*0.74328157*	*0.89301671*	
Int SD	*864.58300000*	*1483.52000000*	*778.12100000*	*1097.53000000*	*1947.42000000*	*543.25600000*	
RelInt Mean	0.24022800	0.51582600	0.33803000	0.15129300	0.26371000	0.05931980	
RelInt RSD	*2.35593270*	*1.62908035*	*0.75147768*	*0.63719405*	*0.59571499*	*0.04228554*	
RelInt SD	*0.00565961*	*0.00840322*	*0.00254022*	*0.00096403*	*0.00157096*	*0.00002508*	
Conc Mean	1.03613000[mg/l]	0.98415500[mg/l]	5.19664000[mg/l]	5.62128000[mg/l]	1.02184000[mg/l]	5.73444000[mg/l]	
Conc RSD	*2.34657813*	*1.63172468*	*0.76818868*	*0.64041108*	*0.59774916*	*0.04225417*	
Conc SD	*0.02431360[mg/l]*	*0.01605870[mg/l]*	*0.03992000[mg/l]*	*0.03599930[mg/l]*	*0.00610804[mg/l]*	*0.00242304[mg/l]*	

ENTHALPY INSTRUMENT BLANK FOR 475743 METALS Wipe

EPA 6010B

Inst:	MET06			IDF:	1.0
Seqnum:	482514607183	File:	met06_master	Time:	23-DEC-2022 19:16
Cal:	482514607001	Caldate:	23-DEC-2022		

Analyte	Ch	Quant	IQL	LOD	Units	Flags
Lead	A	ND	0.003333	---	mg/l	

ISTD (ICALBLK 001)	Ch	ICALBLK Abund	Abund	%Drift
Yttrium	H	30464900	29591900	-2.87
Yttrium	A	919101	1052280	14.49
Yttrium	R	186284	177768	-4.57

Method Name: MET06_MASTER Method Autor: Operator

Sample Name: CCB,1	Sample Type: Control Sample		
Measure Date: 2022-12-23 19:16:14	Recalculation Date:	State: Checked	Quality: Drifted

	Ag 328.068	Al_R 396.152	As 189.042	B 249.677	Ba 230.424	Ca_R 317.933	Co 228.616
Int Mean	35318.10000000	851.55800000	2282.99000000	6405.37000000	5027.59000000	47.23260000	4728.27000000
Int RSD	*0.52642696*	*11.80013575*	*1.41379945*	*0.58648290*	*0.36564636*	*134.26891596*	*1.25842221*
Int SD	*185.92400000*	*100.48500000*	*32.27690000*	*37.56640000*	*18.38320000*	*63.41870000*	*59.50160000*
RelInt Mean	0.00003525	0.00279175	0.00003216	0.00162949	0.00013646	0.00019692	0.00000556
RelInt RSD	*5.55207580*	*21.31154294*	*143.26466518*	*4.13982289*	*16.46799311*	*77.25116799*	*396.89078365*
RelInt SD	*0.00000196*	*0.00059496*	*0.00004607*	*0.00006746*	*0.00002247*	*0.00015212*	*0.00002207*
Conc Mean	<0.00035384[mg/l]	<0.02935990[mg/l]	0.00670868[mg/l]	0.00183464[mg/l]	<-0.00005891[mg/l]	<0.00910143[mg/l]	<-0.00019362[mg/l]
Conc RSD	*22.15456747*	*186.62018604*	*36.88162202*	*43.73757249*	*79.84970625*	*136.97627735*	*71.33818820*
Conc SD	*0.00007839[mg/l]*	*0.05479150[mg/l]*	*0.00247427[mg/l]*	*0.00080243[mg/l]*	*0.00004704[mg/l]*	*0.01246680[mg/l]*	*0.00013813[mg/l]*

	Cr 267.716	Cu 324.754	Fe 259.941	K_R 769.896	Mg_R 383.230	Mn 257.611	Mo 202.095
Int Mean	4686.65000000	37311.10000000	10666.30000000	-189.70000000	491.11800000	5886.32000000	7010.39000000
Int RSD	*1.40316217*	*1.76647700*	*9.55101582*	*9.84717976*	*22.31439288*	*1.12679399*	*20.66903553*
Int SD	*65.76130000*	*659.09200000*	*1018.74000000*	*18.68010000*	*109.59000000*	*66.32670000*	*1448.98000000*
RelInt Mean	0.00007609	0.00018343	0.00473590	-0.00077478	-0.00066924	0.00022969	0.00391421
RelInt RSD	*51.20594277*	*9.17890593*	*21.07086298*	*34.94006694*	*53.45867875*	*28.91646204*	*34.99429004*
RelInt SD	*0.00003896*	*0.00001684*	*0.00099789*	*0.00027071*	*0.00035777*	*0.00006642*	*0.00136975*
Conc Mean	<0.00021255[mg/l]	<0.00035958[mg/l]	0.01437640[mg/l]	<-0.01774990[mg/l]	<-0.02834860[mg/l]	<0.00002430[mg/l]	0.02813430[mg/l]
Conc RSD	*129.07161105*	*141.94564800*	*22.64210790*	*146.67969960*	*261.25205478*	*162.65514914*	*35.73111824*
Conc SD	*0.00027434[mg/l]*	*0.00051041[mg/l]*	*0.00325512[mg/l]*	*0.02603550[mg/l]*	*0.07406130[mg/l]*	*0.00003952[mg/l]*	*0.01005270[mg/l]*

	Na_R 589.592	Ni 231.604	Pb 220.353	Sb 206.833	Se 196.090	Sn 189.991	Sr_R 407.771
Int Mean	6310.54000000	5188.93000000	4877.42000000	3845.71000000	2754.76000000	2952.45000000	222.93500000
Int RSD	*7.10902712*	*1.12542470*	*0.16778010*	*3.25939813*	*3.06677170*	*8.38320717*	*25.45692691*
Int SD	*448.61800000*	*58.39750000*	*8.18334000*	*125.34700000*	*84.48220000*	*247.51000000*	*56.75240000*
RelInt Mean	0.01282620	0.00015913	-0.00001458	0.00053126	0.00029327	0.00073088	-0.00042000
RelInt RSD	*4.58667415*	*6.84073599*	*139.82127304*	*23.10566489*	*28.07118940*	*32.19780099*	*53.54723657*
RelInt SD	*0.00058830*	*0.00001089*	*0.00002039*	*0.00012275*	*0.00008233*	*0.00023533*	*0.00022490*
Conc Mean	0.10822300[mg/l]	<-0.00022769[mg/l]	<0.00114275[mg/l]	0.03082120[mg/l]	0.02016360[mg/l]	0.01197300[mg/l]	<0.00015889[mg/l]
Conc RSD	*7.66164309*	*47.82538044*	*58.84454168*	*21.53485263*	*26.88562558*	*35.84064144*	*121.40690298*
Conc SD	*0.00829166[mg/l]*	*0.00010890[mg/l]*	*0.00067245[mg/l]*	*0.00663730[mg/l]*	*0.00542111[mg/l]*	*0.00429120[mg/l]*	*0.00019290[mg/l]*

	Ti 334.941	Tl 190.864	V 292.464	Y 224.3_A	Y 371.0_A	Y_R 371.030	Zn 206.200
Int Mean	60357.30000000	2264.10000000	8412.22000000	1052280	29591900	177768	3391.99000000
Int RSD	*5.77129858*	*1.61262753*	*1.56695854*	*0.07617573*	*0.38732897*	*0.52467992*	*1.15313135*
Int SD	*3483.40000000*	*36.51150000*	*131.81600000*	*801.58200000*	*114618*	*932.71300000*	*39.11410000*
RelInt Mean	0.00076362	0.00006523	0.00003777	---	---	---	0.00023134
RelInt RSD	*14.79786333*	*85.93959130*	*2.23876906*	---	---	---	*14.85158273*
RelInt SD	*0.00011300*	*0.00005605*	*0.00000085*	---	---	---	*0.00003436*
Conc Mean	0.00709012[mg/l]	0.00675070[mg/l]	<0.00135476[mg/l]	1046250	29535800	177415	<-0.00089715[mg/l]
Conc RSD	*14.73952486*	*38.18285511*	*11.15607192*	---	---	---	*15.66512028*
Conc SD	*0.00104505[mg/l]*	*0.00257761[mg/l]*	*0.00015114[mg/l]*	*769.69700000*	*114520*	*985.94700000*	*0.00014054[mg/l]*

	Be_R 313.107	Li_R 670.780	Si 251.612	P 177.495	Cd 228.802	S 182.034	
Int Mean	-44.82430000	2539.29000000	9503.01000000	2964.51000000	4783.48000000	2687.72000000	
Int RSD	*192.66848562*	*8.54455379*	*0.71379384*	*3.37762396*	*1.27730021*	*1.20557201*	
Int SD	*86.36230000*	*216.97100000*	*67.83190000*	*100.13000000*	*61.09940000*	*32.40240000*	
RelInt Mean	-0.00109902	0.00123886	0.00432697	0.00069693	0.00006466	0.00001482	
RelInt RSD	*33.79711015*	*56.03901974*	*2.07478212*	*16.17527628*	*30.82036071*	*121.82738035*	
RelInt SD	*0.00037144*	*0.00069425*	*0.00008978*	*0.00011273*	*0.00001993*	*0.00001806*	
Conc Mean	<-0.00067668[mg/l]	<0.00076785[mg/l]	0.00786861[mg/l]	<-0.00323839[mg/l]	<-0.00016032[mg/l]	0.00561646[mg/l]	
Conc RSD	*235.82673616*	*172.78442190*	*15.52459710*	*130.01337084*	*44.88316970*	*31.06244859*	
Conc SD	*0.00159579[mg/l]*	*0.00132672[mg/l]*	*0.00122157[mg/l]*	*0.00421034[mg/l]*	*0.00007196[mg/l]*	*0.00174461[mg/l]*	

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

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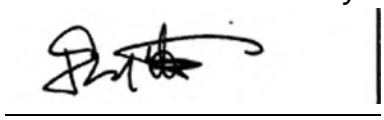
Lab Job Number:	478362
Report Level:	II
Report Date:	02/06/2023

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker Rincon Consultants 449 15th Street #303 Oakland, CA 94612		Lab Job #: Project No: Location: Date Received:	478362 20-10491 Hangar 1 NTCRA 01/27/23

Sample ID	Lab ID	Collected	Matrix
ARCH-C4W-DG-7 TO 7.5-230126-P-FB	478362-001	01/26/23 12:55	Wipe
ARCH-C4W-DG-7 TO 7.5-230126-L-FB	478362-002	01/26/23 12:55	Wipe
ARCH-C3W-EXT-7 TO 8-230126-P-WF	478362-003	01/26/23 13:05	Wipe
ARCH-C3W-EXT-7 TO 8-230126-L-WF	478362-004	01/26/23 13:05	Wipe
ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-P-LA	478362-005	01/26/23 13:25	Wipe
ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-L-LA	478362-006	01/26/23 13:25	Wipe
ARCH-C5W-DG-8 TO 9-UP-C5.7-VS-230126-P-LA	478362-007	01/26/23 13:55	Wipe
ARCH-C5W-DG-8 TO 9-UP-C5.7-VS-230126-L-LA	478362-008	01/26/23 13:55	Wipe
ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-P-LA	478362-009	01/26/23 13:40	Wipe
ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-L-LA	478362-010	01/26/23 13:40	Wipe

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 478362 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 01/27/23

This data package contains sample and QC results for ten wipe samples, requested for the above referenced project on 01/30/23. The samples were received cold and intact.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B):

- An interference check standard recovered slightly low for lead in the presence of high concentrations of aluminum. As it relates to these samples, the bias is insignificant; results are flagged "b", but there is no effect on the data quality.
- No analytical problems were encountered.

478362

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
1	ARCH-C4W-DG-7 TO 7.5-230126-P- FB	1/26/2023	1255	WP	1	--	X			**Confirmation Wipe Samples - Level II Report/Stage 2A Validation** Report PCB concentrations on a µg/100cm2 basis Report lead concentrations on a µg/ft2 basis Report Aroclor 1268 concentrations in addition to the standard Aroclors Wipe samples collected from Zone 3 Enclosure C/D (low occupancy)
2	ARCH-C4W-DG-7 TO 7.5-230126-L- FB	1/26/2023	1255	WP	1	--		X		
3	ARCH-C3W-EXT-7 TO 8-230126-P- WF	1/26/2023	1305	WP	1	--	X			
4	ARCH-C3W-EXT-7 TO 8-230126-L- WF	1/26/2023	1305	WP	1	--		X		
5	ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-P- LA	1/26/2023	1325	WP	1	--	X			
6	ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-L- LA	1/26/2023	1325	WP	1	--		X		
7	ARCH-C5W-DG-8 TO 9-DN-C5.7-VS-230126-P- LA	1/26/2023	1355	WP	1	--	X			
8	ARCH-C5W-DG-8 TO 9-DN-C5.7-VS-230126-L- LA	1/26/2023	1355	WP	1	--		X		
9	ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-P- LA	1/26/2023	1340	WP	1	--	X			1x Rivet Type 2 = 0.0100 ft²
10	ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-L- LA	1/26/2023	1340	WP	1	--		X		4x Rivet Type 2 = 0.0400 ft²
11										
12										
13										
14										
15										

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:	TS	Tyler Sinnott	Rincon / Envi. Scientist	1/26/23 / 1645 — TS
[1] Received By:		Michaela Kim	Rincon / Env Scientis	1/27/23 @ 1351
[2] Relinquished By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	1/27/23 @ 13:51
[2] Received By:	Audrey Hudson	"	"	1/27/23 @ 16:50
[3] Relinquished By:			BA	1/27/23 16:56
[3] Received By:			EA	1/28/23 11:14

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 478362 Client: Rincon

Date Received: 1.27.23 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☑ Yes. If yes, where? ☑ on cooler, ☐ on samples, ☐ on package

☑ Date: 1.27.23 How many 2 ☑ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 2 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☐ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 1.27.23 By (print) JJP (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☐ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☑ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: 6.3, #2: 7.2, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 1.27.22 **By (print)** JP for MY **(sign)** _____

Date Labeled 1.27.22 **By (print)** JJP **(sign)** _____

Enthalpy Analytical - Berkeley Rev.15.1, 09/13/2019

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL 478382

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NCTRA

Date Received: 1/28/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? ~~1~~ 2 G.S. 1/28/23 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 4.2 #2: 2.9 #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☑ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.8 #2: 2.2 #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present?	✓		
If custody seals are present, were they intact?	✓		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✓		✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

✓ 1/28/23

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: [signature] Date: 1/28/23

GLS.

800-322-5555
www.gls-us.com

Ship From
ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Ship To
ENTHALPY ANALYTICAL
SAMPLE RECEIVING
931 W BARKLEY AVE
ORANGE, CA 92868

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:

Signature Type: STANDARD

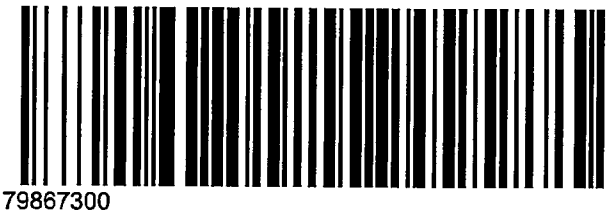
Tracking #: 558701542

SDS



ORANGE

S10003H



79867300

ORC CA927-EH0

Print Date: 1/27/2023 4:16 PM

Package 1 of 5

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

4.7/2.8

GLS.

800-322-5555
www.gls-us.com

Ship From
ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Ship To
ENTHALPY ANALYTICAL
SAMPLE RECEIVING
931 W BARKLEY AVE
ORANGE, CA 92868

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:

Signature Type: STANDARD

Tracking #: 558701543

SDS

ORANGE

S10003H

79867301

ORC CA927-EH0

Print Date: 1/27/2023 4:16 PM

Package 2 of 5

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

Cooler #7 custody Seal on cooler Intact

2.9/2.2

1/20/23 @ 1114

Enthalpy Analytical - Orange Analytical Report

Lab #: 478362 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C4W-DG-7 TO 7.5-230126-P-FB **Batch#:** 306460 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/26/23 **Analysis:** EPA 8082

Lab ID: 478362-001 **Received:** 01/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/01/23

Diln Fac: 1.000 **Analyzed:** 02/02/23

478362-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

478362-001 Surrogate	%REC	Limits
TCMX (PCB)	84	19-121
Decachlorobiphenyl (PCB)	73	19-121

Field ID: ARCH-C3W-EXT-7 TO 8-230126-P-WF **Batch#:** 306460 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/26/23 **Analysis:** EPA 8082

Lab ID: 478362-003 **Received:** 01/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/01/23

Diln Fac: 1.000 **Analyzed:** 02/02/23

478362-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

478362-003 Surrogate	%REC	Limits
TCMX (PCB)	75	19-121
Decachlorobiphenyl (PCB)	89	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 478362 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-P-LA **Batch#:** 306460 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/26/23 **Analysis:** EPA 8082

Lab ID: 478362-005 **Received:** 01/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/01/23

DiIn Fac: 1.000 **Analyzed:** 02/02/23

478362-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

478362-005 Surrogate	%REC	Limits
TCMX (PCB)	79	19-121
Decachlorobiphenyl (PCB)	68	19-121

Field ID: ARCH-C5W-DG-8 TO 9-UP-C5.7-VS-230126-P-LA **Batch#:** 306460 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/26/23 **Analysis:** EPA 8082

Lab ID: 478362-007 **Received:** 01/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/01/23

DiIn Fac: 1.000 **Analyzed:** 02/02/23

478362-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

478362-007 Surrogate	%REC	Limits
TCMX (PCB)	81	19-121
Decachlorobiphenyl (PCB)	80	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 478362 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-P-LA **Batch#:** 306460 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/26/23 **Analysis:** EPA 8082

Lab ID: 478362-009 **Received:** 01/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/01/23

Diln Fac: 1.000 **Analyzed:** 02/02/23

478362-009 Analyte	Result	RL	Units
Aroclor-1016	ND	0.46	ug/100 cm2
Aroclor-1221	ND	0.46	ug/100 cm2
Aroclor-1232	ND	0.46	ug/100 cm2
Aroclor-1242	ND	0.46	ug/100 cm2
Aroclor-1248	ND	0.46	ug/100 cm2
Aroclor-1254	ND	0.46	ug/100 cm2
Aroclor-1260	ND	0.46	ug/100 cm2
Aroclor-1262	ND	0.46	ug/100 cm2
Aroclor-1268	ND	0.46	ug/100 cm2

478362-009 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	65	19-121

Type: BLANK **Batch#:** 306460 **Analysis:** EPA 8082

Lab ID: QC1042117 **Prepared:** 02/01/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 02/02/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1042117 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1042117 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	72	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 478362 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 306460 **Analysis:** EPA 8082

Lab ID: QC1042118 **Prepared:** 02/01/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 02/02/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1042118 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.994	80	60-140	ug/100 cm2
Aroclor-1260	5.000	4.318	86	60-140	ug/100 cm2

QC1042118 Surrogate	%REC	Limits
TCMX (PCB)	79	19-121
Decachlorobiphenyl (PCB)	88	19-121

Type: BSD **Batch#:** 306460 **Analysis:** EPA 8082

Lab ID: QC1042119 **Prepared:** 02/01/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 02/02/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1042119 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	4.160	83	60-140	ug/100 cm2	4	20
Aroclor-1260	5.000	4.156	83	60-140	ug/100 cm2	4	20

QC1042119 Surrogate	%REC	Limits
TCMX (PCB)	86	19-121
Decachlorobiphenyl (PCB)	85	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 478362 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: ARCH-C4W-DG-7 TO 7.5-230126-L-FB **Batch#:** 306445 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/26/23 **Analysis:** EPA 6010B
Lab ID: 478362-002 **Received:** 01/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/30/23
Diln Fac: 1.000 **Analyzed:** 01/30/23

478362-002 Analyte	Result	RL	Units	Qual
Lead	**48**	0.25	ug/ft2	b

Field ID: ARCH-C3W-EXT-7 TO 8-230126-L-WF **Batch#:** 306445 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/26/23 **Analysis:** EPA 6010B
Lab ID: 478362-004 **Received:** 01/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/30/23
Diln Fac: 1.000 **Analyzed:** 01/30/23

478362-004 Analyte	Result	RL	Units	Qual
Lead	**150**	0.25	ug/ft2	b

Field ID: ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-L-LA **Batch#:** 306445 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/26/23 **Analysis:** EPA 6010B
Lab ID: 478362-006 **Received:** 01/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/30/23
Diln Fac: 1.000 **Analyzed:** 01/30/23

478362-006 Analyte	Result	RL	Units	Qual
Lead	**90**	0.25	ug/ft2	b

Field ID: ARCH-C5W-DG-8 TO 9-UP-C5.7-VS-230126-L-LA **Batch#:** 306445 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/26/23 **Analysis:** EPA 6010B
Lab ID: 478362-008 **Received:** 01/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/30/23
Diln Fac: 1.000 **Analyzed:** 01/30/23

478362-008 Analyte	Result	RL	Units	Qual
Lead	**110**	0.25	ug/ft2	b

Field ID: ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-L-LA **Batch#:** 306445 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/26/23 **Analysis:** EPA 6010B
Lab ID: 478362-010 **Received:** 01/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/30/23
Diln Fac: 1.000 **Analyzed:** 01/30/23

478362-010 Analyte	Result	RL	Units	Qual
Lead	**160**	0.24	ug/ft2	b

ENTHALPY ANALYTICAL

Lead

Lab #: 478362 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type:	BLANK	**Batch#:**	306445	**Analysis:**	EPA 6010B
Lab ID:	QC1042048	**Prepared:**	01/30/23	**Analyst:**	SBW
Matrix:	Wipe	**Analyzed:**	01/30/23		
DiIn Fac:	1.000	**Prep:**	EPA 3050B		

QC1042048 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

b: See narrative

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 478362 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 306445 **Analysis:** EPA 6010B

Lab ID: QC1042049 **Prepared:** 01/30/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 01/30/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1042049 Analyte	Spiked	Result	%REC	Limits	Units	Qual
Lead	50.00	52.93	106	80-120	ug/ft2	b

Type: BSD **Batch#:** 306445 **Analysis:** EPA 6010B

Lab ID: QC1042050 **Prepared:** 01/30/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 01/30/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1042050 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
Lead	50.00	51.48	103	80-120	ug/ft2	3	20	b

Legend

RPD: Relative Percent Difference

b: See narrative

Attachment 4

ProUCL Input and Output Files

Attachment 4
Hangar 1 Data Summary Submittal for the Low Occupancy Area of Zone 3
ProUCL Lead Input File

Sample ID	LeadResults	d_LeadResults
ARCH-C5W-EXT-1 TO 2-221209-WF	11	1
ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-LA	4.5	1
ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-LA	10	1
ARCH-C5W-INT-4.5 TO 5.5-221209-WF	6.8	1
ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-LA	9.5	1
ARCH-C4W-INT-2.5 TO 3.5-221221-WF	160	1
ARCH-C3W-INT-2.5 TO 3.5-221221-WF	96	1
ARCH-C4W-DG-3 TO 3.5-221221-DUP-FB	38	1
ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-LA	93	1
ARCH-C5W-DG-4 TO 4.5-221221-DUP-FB	77	1
ARCH-C4W-EXT-4 TO 5-221221-WF	28	1
ARCH-C5W-PS-4.5-221221-G	100	1
ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-LA	170	1
ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-LA	35	1
ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-LA	58	1
ARCH-C3W-INT-4.5 TO 5.5-221221-WF	210	1
ARCH-C4W-PS-5.5-221221-G	96	1
ARCH-C3W-PS-5.5-221221-G	84	1
ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-LA	580	1
ARCH-C5W-PS-6-221221-G	100	1
ARCH-C3W-DG-5.5 TO 6-UP-C3.3-HS-221221-LA	100	1
ARCH-C5W-DG-5.5 TO 6-221221-FB	48	1
ARCH-C5W-DG-6 TO 6.5-221221-FB	100	1
ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-LA	200	1
ARCH-C3W-EXT-6 TO 7-221221-WF	270	1
ARCH-C5W-PS-6.5-221221-G	93	1
ARCH-C3W-PS-6.5-221221-G	77	1
ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-LA	92	1
ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-LA	64	1
ARCH-C5W-EXT-8 TO 9-221221-WF	750	1
ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-LA	56	1
ARCH-C3W-DG-2 TO 2.5-221221-DUP-FB	55	1
ARCH-C4W-DG-2 TO 2.5-221221-FB	45	1
ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-LA	220	1
ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-LA	100	1
ARCH-C4W-DG-7 TO 7.5-230126-FB	48	1
ARCH-C3W-EXT-7 TO 8-230126-WF	150	1
ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-LA	90	1
ARCH-C5W-DG-8 TO 9-UP-C5.7-VS-230126-LA	110	1
ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-LA	160	1

Sample ID	LeadResults	d_LeadResults
ARCH-C5E-DG-3 TO 3.5-230216-FB	170	1
ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230316-LA	11	1
ARCH-C5E-EXT-1 TO 2-230216-WF	190	1
ARCH-C3E-EXT-1 TO 2-230216-WF	120	1
ARCH-C4E-DG-2 TO 2.5-230216-FB	110	1
ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-LA	310	1
ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-LA	230	1
ARCH-C4E-INT-2.5 TO 3.5-230216-WF	330	1
ARCH-C4E-EXT-2 TO 3-230316-WF	28	1
ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-LA	24	1
ARCH-C4E-PS-3.5-230316-G	19	1
ARCH-C3E-PS-3.5-230316-G	26	1
ARCH-C3E-DG-4 TO 4.5-UP-C3.4-VS-230316-LA	21	1
ARCH-C3E-DG-4 TO 4.5-230316-FB	48	1
ARCH-C5E-INT-3.5 TO 4.5-230316-WF	170	1
ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-LA	72	1
ARCH-C3E-EXT-4 TO 5-230316-WF	170	1
ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-LA	120	1
ARCH-C5E-PS-4.5-230316-G	110	1
ARCH-C3E-PS-4.5-230316-G	59	1
ARCH-C4E-DG-4.5 TO 5-230316-DUP-FB	42	1
ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-LA	100	1
ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-LA	14	1
ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-LA	19	1
ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-LA	6.5	1
ARCH-C3E-DG-2.5 TO 3-230316-FB	8	1
ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-LA	35	1
ARCH-C4E-PS-5.5-230414-G	12	1
ARCH-C3E-PS-5.5-230414-G	16	1
ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-LA	56	1
ARCH-C5E-DG-6 TO 6.5-230414-FB	8.5	1
ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-LA	25	1
ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-LA	15	1
ARCH-C5E-PS-6.5-230414-G	10	1
ARCH-C3E-PS-6.5-230414-G	69	1
ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-LA	140	1
ARCH-C4E-DG-7 TO 7.5-230414-FB	74	1
ARCH-C3E-EXT-7 TO 8-230414-WF	220	1
ARCH-C5E-EXT-8 TO 9-230414-WF	74	1
ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230414-LA	150	1

UCL Statistics for Data Sets with Non-Detects	
User Selected Options	
Date/Time of Computation	ProUCL 5.2 5/16/2023 11:54:50 AM
From File	Z3_LO_Lead_UCL_Input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Lead Results

General Statistics			
Total Number of Observations	80	Number of Distinct Observations	54
		Number of Missing Observations	0
Minimum	4.5	Mean	102.8
Maximum	750	Median	75.5
SD	117.5	Std. Error of Mean	13.13
Coefficient of Variation	1.142	Skewness	3.181

Normal GOF Test		
Shapiro Wilk Test Statistic	0.706	**Shapiro Wilk GOF Test**
1% Shapiro Wilk P Value	0	Data Not Normal at 1% Significance Level
Lilliefors Test Statistic	0.201	**Lilliefors GOF Test**
1% Lilliefors Critical Value	0.115	Data Not Normal at 1% Significance Level
Data Not Normal at 1% Significance Level		

Assuming Normal Distribution			
95% Normal UCL		**95% UCLs (Adjusted for Skewness)**	
95% Student's-t UCL	124.7	95% Adjusted-CLT UCL (Chen-1995)	129.4
		95% Modified-t UCL (Johnson-1978)	125.5

Gamma GOF Test		
A-D Test Statistic	0.488	**Anderson-Darling Gamma GOF Test**
5% A-D Critical Value	0.78	Detected data appear Gamma Distributed at 5% Significance Level
K-S Test Statistic	0.0715	**Kolmogorov-Smirnov Gamma GOF Test**
5% K-S Critical Value	0.103	Detected data appear Gamma Distributed at 5% Significance Level
Detected data appear Gamma Distributed at 5% Significance Level		

Gamma Statistics			
k hat (MLE)	1.072	k star (bias corrected MLE)	1.041
Theta hat (MLE)	95.89	Theta star (bias corrected MLE)	98.83
nu hat (MLE)	171.6	nu star (bias corrected)	166.5
MLE Mean (bias corrected)	102.8	MLE Sd (bias corrected)	100.8
		Approximate Chi Square Value (0.05)	137.6
Adjusted Level of Significance	0.047	Adjusted Chi Square Value	137.2

Assuming Gamma Distribution			
95% Approximate Gamma UCL	124.4	95% Adjusted Gamma UCL	124.8

Lognormal GOF Test			
Shapiro Wilk Test Statistic	0.96	**Shapiro Wilk Lognormal GOF Test**	
10% Shapiro Wilk P Value	0.0452	Data Not Lognormal at 10% Significance Level	
Lilliefors Test Statistic	0.102	**Lilliefors Lognormal GOF Test**	
10% Lilliefors Critical Value	0.0907	Data Not Lognormal at 10% Significance Level	
Data Not Lognormal at 10% Significance Level			

Lognormal Statistics			
Minimum of Logged Data	1.504	Mean of logged Data	4.099
Maximum of Logged Data	6.62	SD of logged Data	1.122

Assuming Lognormal Distribution			
95% H-UCL	152.9	90% Chebyshev (MVUE) UCL	163.5
95% Chebyshev (MVUE) UCL	187	97.5% Chebyshev (MVUE) UCL	219.6
99% Chebyshev (MVUE) UCL	283.7		

Nonparametric Distribution Free UCL Statistics
Data appear to follow a Discernible Distribution

Nonparametric Distribution Free UCLs			
95% CLT UCL	124.4	95% BCA Bootstrap UCL	128.5
95% Standard Bootstrap UCL	124.1	95% Bootstrap-t UCL	134.1
95% Hall's Bootstrap UCL	142.8	95% Percentile Bootstrap UCL	124.9
90% Chebyshev(Mean, Sd) UCL	142.2	95% Chebyshev(Mean, Sd) UCL	160.1
97.5% Chebyshev(Mean, Sd) UCL	184.9	99% Chebyshev(Mean, Sd) UCL	233.5

Suggested UCL to Use			
95% Approximate Gamma UCL	124.4		

The calculated UCLs are based on assumptions that the data were collected in a random and unbiased manner.
Please verify the data were collected from random locations.
If the data were collected using judgmental or other non-random methods,
then contact a statistician to correctly calculate UCLs.

Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.
Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.
However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.

UCL Statistics for Data Sets with Non-Detects	
User Selected Options	
Date/Time of Computation	ProUCL 5.2 5/16/2023 1:14:53 PM
From File	Z3_LO_PCB_UCL_Input.xls
Full Precision	OFF
Confidence Coefficient	95%
Number of Bootstrap Operations	2000

Aroclor 1268

General Statistics			
Total Number of Observations	80	Number of Distinct Observations	2
Number of Detects	0	Number of Non-Detects	80
Number of Distinct Detects	0	Number of Distinct Non-Detects	2
Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!			
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!			
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).			
The data set for variable Aroclor 1268 was not processed!			

Aroclor 1016

General Statistics			
Total Number of Observations	80	Number of Distinct Observations	2
Number of Detects	0	Number of Non-Detects	80
Number of Distinct Detects	0	Number of Distinct Non-Detects	2
Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!			
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!			
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).			
The data set for variable Aroclor 1016 was not processed!			

Aroclor 1221

General Statistics			
Total Number of Observations	80	Number of Distinct Observations	2
Number of Detects	0	Number of Non-Detects	80
Number of Distinct Detects	0	Number of Distinct Non-Detects	2
Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!			
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!			
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).			
The data set for variable Aroclor 1221 was not processed!			

Aroclor 1232

General Statistics			
Total Number of Observations	80	Number of Distinct Observations	2
Number of Detects	0	Number of Non-Detects	80
Number of Distinct Detects	0	Number of Distinct Non-Detects	2
Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!			
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!			
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).			
The data set for variable Aroclor 1232 was not processed!			

Aroclor 1242

General Statistics			
Total Number of Observations	80	Number of Distinct Observations	2
Number of Detects	0	Number of Non-Detects	80
Number of Distinct Detects	0	Number of Distinct Non-Detects	2
Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!			
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!			
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).			
The data set for variable Aroclor 1242 was not processed!			

Aroclor 1248

General Statistics			
Total Number of Observations	80	Number of Distinct Observations	2
Number of Detects	0	Number of Non-Detects	80
Number of Distinct Detects	0	Number of Distinct Non-Detects	2
Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!			
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!			
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).			
The data set for variable Aroclor 1248 was not processed!			

Aroclor 1254

General Statistics			
Total Number of Observations	80	Number of Distinct Observations	2
Number of Detects	0	Number of Non-Detects	80
Number of Distinct Detects	0	Number of Distinct Non-Detects	2

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Aroclor 1254 was not processed!

Aroclor 1260

General Statistics			
Total Number of Observations	80	Number of Distinct Observations	2
Number of Detects	0	Number of Non-Detects	80
Number of Distinct Detects	0	Number of Distinct Non-Detects	2

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Aroclor 1260 was not processed!

Aroclor 1262

General Statistics			
Total Number of Observations	80	Number of Distinct Observations	2
Number of Detects	0	Number of Non-Detects	80
Number of Distinct Detects	0	Number of Distinct Non-Detects	2

Warning: All observations are Non-Detects (NDs), therefore all statistics and estimates should also be NDs!
Specifically, sample mean, UCLs, UPLs, and other statistics are also NDs lying below the largest detection limit!
The Project Team may decide to use alternative site specific values to estimate environmental parameters (e.g., EPC, BTV).

The data set for variable Aroclor 1262 was not processed!

Attachment 5

Data Validation Reports

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Rincon Consultants, Inc.
250 E. 1st Street Suite 1400
Los Angeles, CA – 90012
ATTN: Mr. Ryan Thacher
rthacher@rinconconsultants.com

August 15, 2023

SUBJECT: Hangar 1 NTCRA - Data Validation

Dear Mr. Thacher,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on March 6, 2022. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #56277_RV1:

SDG #	**Fraction**
479660 479661	Polychlorinated Biphenyls, Lead

The data validation was performed under Stage 2A & 3 guidelines. The analysis was validated using the following documents, as applicable to each method:

- USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020)
- USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

78 pages-ADV EDD

Attachment 1

Stage 2A/3 (client select) **LDC# 56277 (Rincon Consultants, Inc., Los Angeles, CA / Hangar 1 NTCRA)** **Project# 20-10491**

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082)		Pb (6010B)																															
Matrix:	Water/Soil/Wipe			W	WP	W	WP	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	479660	03/06/23	03/27/23	0	3	0	3																														
B	479661	03/06/23	03/27/23	0	8	0	8																														
Total	TR/PG			0	11	0	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22

Shaded cells indicate Stage 3 validation (all other cells are Stage 2A validation). Sample counts do not include MS, MSD, and DUP's. V:\LOGIN\Rincon\Moffett Field, Hangar 1 NTCRA\56277ST-Wipe.wpd

LDC Report# 56277_RV1

Automated Data Review Data Validation Report
Hangar 1 NTCRA

Sample Delivery Groups

479660
479661

August 14, 2023

Introduction

This Data Validation Report (DVR) presents Stage 3 data validation results for samples collected during the February 2023 sampling period. Data validation was performed in accordance with a modified outline of the US Environmental Protection Agency (EPA) National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020) and USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Polychlorinated Biphenyls (PCBs) by EPA SW 846 Method 8082
Lead by EPA SW 846 Method 6010B

Sample identifications, methods of analyses performed, and review levels on each sample are presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Automated Data Review outliers and manual data validation worksheets are presented in Enclosure I.

All sample results were subjected to Stage 2A data validation, which comprises an evaluation of quality control (QC) summary results. Selected samples were subjected to Stage 3 data validation as indicated on the Sample Summary Report. Stage 3 data validation is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

Initial Calibration and Initial Calibration Verification

8082
The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all analytes.

Average relative response factors (RRF) for all analytes were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all analytes.

Initial calibration data were not reviewed for Stage 2A validation.

6010B
An initial calibration was performed as required by the method.

The initial calibration verification (ICV) standards were within QC limits.

Initial calibration data were not reviewed for Stage 2A validation.

Continuing Calibration

8082
Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all analytes.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

Continuing calibration data were not reviewed for Stage 2A validation.

6010B
Continuing calibrations were performed as required by the method.

The continuing calibration verification (CCV) standards were within QC limits.

Continuing calibration data were not reviewed for Stage 2A validation.

ICP Interference Check Sample Analysis

6010B
The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

Although lead was found in the ICSA standard, no qualification was necessary since the interferent concentrations in the samples were less than ninety percent of the spiked interference concentrations in the ICSA.

Interference check sample (ICS) analysis data were not reviewed for Stage 2A validation.

Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminants were detected in the laboratory blanks.

Field Blanks

8082
Two media blanks were collected and analyzed. No contaminants were found.

6010B
One media blank was collected and analyzed. The media blank had detections for lead. The media blank outlier reports are presented in Enclosure I.

Surrogate Spikes

8082
Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

Internal Standards

8082
All internal standard areas and retention times were within QC limits.

Internal standard data were not reviewed for Stage 2A validation.

Matrix Spike/Matrix Spike Duplicates

The collection of MS/MSDs for wipe samples is not required per the agency-approved UFP-QAPP.

Duplicate Sample Analysis

6010B
The laboratory has indicated that there were no laboratory duplicate (DUP) analyses specified for this method, and therefore laboratory duplicate analyses were not performed.

Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) were analyzed as required by the methods. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Field Duplicates

8082
Two field duplicate pairs were collected and analyzed. No contaminants were found.

6010B
Two field duplicate pairs were collected and analyzed. All RPDs were within QC limits. The field duplicate result comparisons are presented in Enclosure I.

Target Analyte Quantitation

The laboratory reporting limits were evaluated. While the reporting limits were not achieved in accordance with the UFP-QAPP, the achieved reporting limits are acceptable with respect to the Cleanup Goals.

Overall Assessment of Data

The analyses were conducted within all specifications of the methods. No results were rejected in these SDGs.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Summary Report by Analysis Method

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (4/11/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*		*Collection Date*	*Validation Code*
Lab Reporting Batch: 479660							
Method: 6010B							
230216-L-MEDBLANK1	479660-006	WIPE	FB	3050B		2/16/2023 7:46:00 AM	S2AVE
ARCH-C5E-DG-3 TO 3.5-230216-L-FB	479660-002	WIPE	N	3050B		2/16/2023 9:05:00 AM	S2AVE
ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-L-LA	479660-004	WIPE	N	3050B		2/16/2023 9:35:00 AM	S2AVE
Method: 8082							
230216-P-MEDBLANK1	479660-005	WIPE	FB		3546	2/16/2023 7:46:00 AM	S2AVE
ARCH-C5E-DG-3 TO 3.5-230216-P-FB	479660-001	WIPE	N		3546	2/16/2023 9:05:00 AM	S2AVE
ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-P-LA	479660-003	WIPE	N		3546	2/16/2023 9:35:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (4/11/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*		*Collection Date*	*Validation Code*
Lab Reporting Batch: 479661							
Method: 6010B							
ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-L-LA	479661-010	WIPE	N	3050B		2/16/2023 8:25:00 AM	S3VEM
ARCH-C3E-EXT-1 TO 2-230216-L-WF	479661-006	WIPE	N	3050B		2/16/2023 7:50:00 AM	S3VEM
ARCH-C4E-DG-2 TO 2.5-230216-L-FB	479661-008	WIPE	N	3050B		2/16/2023 8:40:00 AM	S3VEM
ARCH-C4E-INT-2.5 TO 3.5-230216-L-DUP-WF	479661-016	WIPE	FD	3050B		2/16/2023 8:50:00 AM	S3VEM
ARCH-C4E-INT-2.5 TO 3.5-230216-L-WF	479661-015	WIPE	N	3050B		2/16/2023 8:50:00 AM	S3VEM
ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-L-LA	479661-013	WIPE	N	3050B		2/16/2023 9:15:00 AM	S3VEM
ARCH-C5E-EXT-1 TO 2-230216-L-DUP-WF	479661-003	WIPE	FD	3050B		2/16/2023 8:04:00 AM	S3VEM
ARCH-C5E-EXT-1 TO 2-230216-L-WF	479661-002	WIPE	N	3050B		2/16/2023 8:04:00 AM	S3VEM
Method: 8082							
ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-P-LA	479661-009	WIPE	N		3546	2/16/2023 8:25:00 AM	S3VEM
ARCH-C3E-EXT-1 TO 2-230216-P-DUP-WF	479661-005	WIPE	FD		3546	2/16/2023 7:50:00 AM	S3VEM
ARCH-C3E-EXT-1 TO 2-230216-P-WF	479661-004	WIPE	N		3546	2/16/2023 7:50:00 AM	S3VEM
ARCH-C4E-DG-2 TO 2.5-230216-P-FB	479661-007	WIPE	N		3546	2/16/2023 8:40:00 AM	S3VEM
ARCH-C4E-INT-2.5 TO 3.5-230216-P-WF	479661-014	WIPE	N		3546	2/16/2023 8:50:00 AM	S3VEM
ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-DUP-LA	479661-012	WIPE	FD		3546	2/16/2023 9:15:00 AM	S3VEM
ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-LA	479661-011	WIPE	N		3546	2/16/2023 9:15:00 AM	S3VEM
ARCH-C5E-EXT-1 TO 2-230216-P-WF	479661-001	WIPE	N		3546	2/16/2023 8:04:00 AM	S3VEM

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (4/11/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*

Validation Label Legend

Label Code	*Label Decription*	*EPA Level*
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with calibration
S2BVM	Stage_2B_Validation_Manual	Level 3 with calibration
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with calibration
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: 479660

EDD Filename: Prep479660

Laboratory: Enthalpy Orange

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 479661

Laboratory: Enthalpy Orange

EDD Filename: Prep479661

eQAPP Name:

No Data Review Qualifiers Applied.

Enclosure I

Validation Outlier Reports

Quality Control
Outlier Reports

479660

LDC #: 56277A3b
SDG #: 479660
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 2A

Date: 4/11/2023
Page: ___of___
Reviewer: [illegible]
2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A /A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	ND	FB=3
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	N	
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C5E-DG-3 TO 3.5-230216-P-FB	479660-001	Wipe	02/16/23
2	ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-P-LA	479660-003	Wipe	02/16/23
3	230216-P-MEDBLANK1	479660-005	Wipe	02/16/23
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

LDC #: 56277A4b

SDG #: 479660

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 4/11/2023

Page: ___ of ___

Reviewer: [illegible]

2nd Reviewer: _____

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	ND	
V.	Field Blanks	SW	FB = 3
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C5E-DG-3 TO 3.5-230216-L-FB	479660-002	Wipe	02/16/23
2	ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230216-L-LA	479660-004	Wipe	02/16/23
3	230216-L-MEDBLANK1	479660-006	Wipe	02/16/23
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes: _____

Field Blank Contamination Report

Lab Reporting Batch ID: 479660

Laboratory: Enthalpy Orange

EDD Filename: Prep479660

Moffett_Hangar_1_NTCRA_Enthalpy_220609

Method: 6010B
Matrix: WIPE

Analyte	*Sample*	*Concentration (ug/ft2)*	*Flag*
LEAD	230216-L-MEDBLANK1	0.91	No Qualifiers Applied

Quality Control
Outlier Reports

479661

LDC #: 56277B3b
SDG #: 479661
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 3

Date: 3/30/23
Page: 1 of 1
Reviewer: P
2nd Reviewer: BA

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	A / A	%RSD/ICV ≤ 20
III.	Continuing calibration	A	CCV ≤ 20
IV.	Laboratory Blanks	A	
V.	Field blanks	ND	FB= 4
VI.	Surrogate spikes 1/4	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS/D
IX.	Field duplicates	ND	D = 2,3 4,7
X.	Target analyte quantitation	A	
XI.	Target analyte identification	A	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID		Lab ID	Matrix	Date
1	ARCH-C5E-EXT-1 TO 2-230216-P-WF		479661-001	Wipe	02/16/23
2	ARCH-C3E-EXT-1 TO 2-230216-P-WF	D	479661-004	Wipe	02/16/23
3	ARCH-C3E-EXT-1 TO 2-230216-P-DUP-WF	D	479661-005	Wipe	02/16/23
4	ARCH-C4E-DG-2 TO 2.5-230216-P-FB		479661-007	Wipe	02/16/23
5	ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-P-LA		479661-009	Wipe	02/16/23
6	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-LA	D	479661-011	Wipe	02/16/23
7	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-P-DUP-LA	D	479661-012	Wipe	02/16/23
8	ARCH-C4E-INT-2.5 TO 3.5-230216-P-WF		479661-014	Wipe	02/16/23
9					
10					
11					
12					
13					

Notes:

	307899						

LDC #: 56277B3b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: ✓GC __HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?	✓			
Were target analytes detected in the field duplicates?		✓		
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?			✓	
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: ___GC___ HPLC

8310	8330	8151/8321	8141		8021B
A. Acenaphthene	A. HMX	A. 2,4-D	A. Dichlorvos	CC. Trichlorinate	V. Benzene
B. Acenaphthylene	B. RDX	B. 2,4-DB	B. Mevinphos	DD. Trifluralin	CC. Toluene
C. Anthracene	C. 1,3,5-Trinitrobenzene	C. 2,4,5-T	C. Demeton-O	EE. Def	EE. Ethyl Benzene
D. Benzo(a)anthracene	D. 1,3-Dinitrobenzene	D. 2,4,5-TP	D. Demeton-S	FF. Prowl	SSS. O-Xylene
E. Benzo(a)pyrene	E. Tetryl	E. Dinoseb	E. Ethoprop	GG. Ethion	RRR. MP-Xylene
F. Benzo(b)fluoranthene	F. Nitrobenzene	F. Dichlorprop	F. Naled	HH. Famphur	GG. Total Xylene
G. Benzo(g,h,i)perylene	G. 2.4.6-Trinitrotoluene	G. Dicamba	G. Sulfotep	II. Phosmet	
H. Benzo(k)fluoranthene	H. 4-Amino-2,6-dinitrotoluene	H. Dalapon	H. Phorate	JJ. Tetrachlorvinphos	
I. Chrysene	I. 2-Amino-4,6-dinitrotoluene	I. MCPP	I. Dimethoate	KK. Demeton (total)	
J. Dibenz(a,h)anthracene	J. 2,4-Dinitrotoluene	J. MCPA	J. Diazinon		
K. Fluoranthene	K. 2,6-Dinitrotoluene	K. Pentachlorophenol	K. Disulfoton		
L. Fluorene	L. 2-Nitrotoluene	L. 2,4,5-TP (silvex)	L. Parathion-methyl	**8315A**	
M. Indeno(1,2,3-cd)pyrene	M. 3-Nitrotoluene	M. Silvex	M. Ronnel	A. Formaldehyde	
N. Naphthalene	N. 4-Nitrotoluene	N. 2,4-Dichlorophenoxybutyric acid	N. Malathion	B. Acetaldehyde	
O. Phenanthrene	O. Nitroglycerin	O. 3,5-Dichlorobenzoic acid	O. Chlorpyrifos	C. Benzaldehyde	
P. Pyrene	P. Picric acid	P. Bentazon	P. Fenthion	D. Butyraldehyde	
Q.	Q. 2,4-Dinitrophenol	Q. Picloram	Q. Parathion-ethyl	C. Benzaldehyde	
R.	R. 3,5-Dinitroaniline		R. Trichlornate	D. Butyraldehyde	
S.	S. 2-Nitrophenol		S. Merphos		
	T. 4-Nitrophenol		T. Stirofos		
	U. Picramic acid		U. Tokuthion	**Organic acids**	
	V. PETN		V. Fensulfothion	A. Acetic acid	
	W. Hexahydro-1,3,5-trinitroso-1,3,5-triazine		W. Bolstar	B. Butyric acid	
	X. MNX		X. EPN	C. Lactic acid	
	Y. Octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine		Y. Azinphos-methyl	D. Propionic acid	
	Z. DNX		Z. Coumaphos	E. Pyruvic acid	
	AA. TNX		AA. Parathion		
			BB. Trichloronate		

LDC #: 56277 B3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC ✓ HPLC_____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (250 std)	Recalculated CF (250 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL	2/8/23	1260-1 col 1	0.0837	0.0837	0.0810	0.0810	18	18
			1260-1 col 2	0.0677	0.0677	0.0631	0.0631	19	19
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 52777B3b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of target analyte
C = Concentration of target analyte

#	Standard ID	Calibration Date	Target Analyte	Average CF(Ical)/ CCV Conc.	Reported	Recalculated	Reported	Recalculated
					CF/ Conc. CCV	CF/ Conc. CCV	%D	%D
1	CCV	2/17/23 1733	Aroclor 1260 col 1	500.0	445.5	445.5	11	11
			↓ col 2	500.0	461.2	461.2	8	8
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56277 B 3b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	col 2	50	33.1050 U	66	66	0
DCB	↓	↓	27.9163	56	56	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C`	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 56277B3b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample

SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 307899 (-510)

Compound	Spike Added (ug/100 cm²)		Spike Sample Concentration (ug/100cm²)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	5.0	5.0	3.389	3.552	68	68	71	71	5	5

Comments: _____

LDC #: 52777B3b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

METHOD: ✓ GC __ HPLC

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the target analyte to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the target analyte In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. 307899 LCS : Aroclor 1260

Concentration = $\frac{338.9 \times 10}{(1)\ (1000)}$ =

= 3.389 mg/100 cm²

#	Sample ID	Target analyte	Reported Concentrations (mg/100 cm²)	Recalculated Results Concentrations (mg/100 cm²)	Qualifications
	LCS	Aroclor 1260	3.389	3.389	
	1260-1 = 21411 / 16407	81.75 (20.0) / 16.96 (0.0810)	1260-1 =	322.23	
			r =	~~322.4~~ 368.7	
			3 =	368.7 294.9	
	=	322.23	4 =	~~294.9~~ 358.6	
			5 =	349.8	
				338.9	

Comments: _____

LDC #: 56277B4b

SDG #: 479661

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 3

Date: 4/11/23

Page: 1 of 1

Reviewer: ATV

2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	SW	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD (1,2), (7,8)
X.	Field Duplicates	SW	
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C5E-EXT-1 TO 2-230216-L-WF	479661-002	Wipe	02/16/23
2	ARCH-C5E-EXT-1 TO 2-230216-L-DUP-WF	479661-003	Wipe	02/16/23
3	ARCH-C3E-EXT-1 TO 2-230216-L-WF	479661-006	Wipe	02/16/23
4	ARCH-C4E-DG-2 TO 2.5-230216-L-FB	479661-008	Wipe	02/16/23
5	ARCH-C3E-DG-2 TO 2.5-UP-C3.6-HS-230216-L-LA	479661-010	Wipe	02/16/23
6	ARCH-C5E-DG-3 TO 3.5-UP-C5.6-HS-230216-L-LA	479661-013	Wipe	02/16/23
7	ARCH-C4E-INT-2.5 TO 3.5-230216-L-WF	479661-015	Wipe	02/16/23
8	ARCH-C4E-INT-2.5 TO 3.5-230216-L-DUP-WF	479661-016	Wipe	02/16/23
9				
10				
11				
12				
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
Were all water samples preserved to a pH of <2.			✓	
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			✓	
Were %RSDs of isoptoes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily?	✓			
Were the proper standards used?	✓			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low level standard checks within 70-130%?			✓	
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?		✓		
Was there contamination in the initial and continuing calibration blanks?		✓		
V. Interference Check Sample				
Were the interference check samples performed daily?	✓			
Were the AB solution recoveries within 80-120%?	✓			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			✓	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			✓	
VII. Laboratory Control Samples				
SDG?	✓			

Were the LCS recoveries and RPDs (if applicable) within QC limits?	✓			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			✓	
If the recoveries were outside the limits, was a reanalysis performed?			✓	
IX. Serial Dilution				
Were all percent differences <10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?			✓	
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?	✓			
Were target analytes detected in the field duplicates?	✓			
XIII. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	

LDC #: 56108D4b

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were ICP interference check samples performed as required?

(Y) N N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding	Associated Samples	Qualifications
	02/18/23	ICSA (11:36)	Pb	-0.01819 (≤ 0.003333)	all	no qual (sample interferents < ICSA)

Comments:

Field Duplicate RPD Report

Lab Reporting Batch ID: 479661 **Laboratory: Enthalpy Orange**

EDD Filename: Prep479661 **eQAPP Name:**

Method: 6010B
Matrix: WIPE

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	ARCH-C5E-EXT-1 TO 2-230216-L-WF (TOT)	**ARCH-C5E-EXT-1 TO 2-230216-L-DUP-WF**			
LEAD	190	150	24	100.00	No Qualifiers Applied

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	ARCH-C4E-INT-2.5 TO 3.5-230216-L-WF (TOT)	**ARCH-C4E-INT-2.5 TO 3.5-230216-L-DUP-WF**			
LEAD	330	290	13	100.00	No Qualifiers Applied

LDC#: 56277B4b

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: Metals (EPA Method 6010/6020/7000/200.7/200.8)

Analyte	Concentration (ug/ft2)		RPD (≤ 50%)	
	1	2		
Lead	190	150	24	

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Analyte	Concentration (ug/ft2)		RPD (≤ 50%)	
	7	8		
Lead	330	290	13	

LDC #: 56277B4b

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: ATL

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (~~ug/L~~ mg/L)	True (~~ug/L~~ mg/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
ICV	ICP (Initial calibration)	Pb	1.0335	1.000	103	103	Y
	ICP/MS (Initial calibration)						
	CVAA (Initial calibration)						
CCV	ICP (Continuing calibration) 02/18 @ 14:16	Pb	1.04823	1.000	105	105	Y
	ICP/MS (Continuing calibration)						
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis			± 0.1 AMU	NA	
	%RSD			≤ 5% RSD		

Comments:

LDC #: 56277B4b

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATV

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (µg/ft2 (units))	True / D / SDR (µg/ft2 (units))	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Pb	1.0243 mg/L	1.000 mg/L	102	102	Y
LCS	Laboratory control sample	Pb	106.253	100.0	106	106	Y
	Matrix spike		(SSR-SR)				
	Duplicate						
	Post digestion spike						
	ICP serial dilution						

Comments: _____

LDC #: 56277B4b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for Pb were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation: #5

$6.23945 \times \left(\frac{50}{1.02}\right) = 305.855$

#	Sample ID	Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
	1	Pb	190	190.186	Y
	2	Pb	150	148.982	Y
	3	Pb	120	117.079	Y
	4	Pb	110	107.0375	Y
	5	Pb	310	305.855	Y
	6	Pb	230	232.632	Y
	7	Pb	330	326.1235	Y
	8	Pb	290	288.2095	Y

Note:

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Rincon Consultants, Inc.
250 E. 1st Street Suite 1400
Los Angeles, CA – 90012
ATTN: Mr. Ryan Thacher
rthacher@rinconconsultants.com

June 8, 2023

SUBJECT: Hangar 1 NTCRA - Data Validation

Dear Mr. Thacher,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on April 21, 2023. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #56553:

SDG #	**Fraction**
481683 481689	Polychlorinated Biphenyls, Lead

The data validation was performed under Stage 2A & 3 guidelines. The analysis was validated using the following documents, as applicable to each method:

- USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020)
- USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

78 pages-ADV EDD

Attachment 1

Stage 2A/3 (client select) **LDC# 56553 (Rincon Consultants, Inc., Los Angeles, CA / Hangar 1 NTCRA)** **Project# 20-10491**

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082)		Pb (6010B)																													
Matrix:	Water/Soil/Wipe			W	WP	W	WP	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	481683	04/21/23	05/12/23	0	4	0	4																												
B	481689	04/21/23	05/12/23	0	16	0	17																												
Total	TR/PG			0	20	0	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	41

Shaded cells indicate Stage 3 validation (all other cells are Stage 2A validation). Sample counts do not include MS, MSD, and DUP's. V:\LOGIN\Rincon\Moffett Field, Hangar 1 NTCRA\56553ST-Wipe.wpd

LDC Report# 56553

Automated Data Review Data Validation Report
Hangar 1 NTCRA

Sample Delivery Groups

481683
481689

June 8, 2023

Introduction

This Data Validation Report (DVR) presents Stage 3 data validation results for samples collected during the March 2023 sampling period. Data validation was performed in accordance with a modified outline of the US Environmental Protection Agency (EPA) National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020) and USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Polychlorinated Biphenyls (PCBs) by EPA SW 846 Method 8082
Lead by EPA SW 846 Method 6010B

Sample identifications, methods of analyses performed, and review levels on each sample are presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Automated Data Review outliers and manual data validation worksheets are presented in Enclosure I.

All sample results were subjected to Stage 3 data validation, which comprises an evaluation of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

Initial Calibration and Initial Calibration Verification

8082
The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all analytes.

Average relative response factors (RRF) for all analytes were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all analytes.

6010B
An initial calibration was performed as required by the method.

The initial calibration verification (ICV) standards were within QC limits.

Continuing Calibration

8082
Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all analytes.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

6010B
Continuing calibrations were performed as required by the method.

The continuing calibration verification (CCV) standards were within QC limits.

ICP Interference Check Sample Analysis

6010B
The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminants were detected in the laboratory blanks.

Field Blanks

8082
One media blank was collected and analyzed. No contaminants were found.

6010B
One media blank was collected and analyzed. The media blank had detections for lead. The associated sample results were not detected or were significantly greater than the concentrations found in the media blank, therefore no data were qualified. The details are presented in Enclosure I.

Surrogate Spikes

8082
Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

Internal Standards

8082
All internal standard areas and retention times were within QC limits.

Matrix Spike/Matrix Spike Duplicates

The collection of MS/MSDs for wipe samples is not required per the agency-approved UFP-QAPP.

Duplicate Sample Analysis

6010B
The laboratory has indicated that there were no laboratory duplicate (DUP) analyses specified for this method, and therefore laboratory duplicate analyses were not performed. The lack of laboratory duplicate samples is consistent with the UFP-QAPP for the Hangar 1 NTCRA (EKI, 2022).

Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) were analyzed as required by the methods. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Field Duplicates

8082
One field duplicate pair was collected and analyzed. No contaminants were found.

6010B
One field duplicate pair was collected and analyzed. The field duplicates had detections for lead. All RPDs were within QC limits. The field duplicate result comparisons are presented in Enclosure I.

Target Analyte Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements in the UFP-QAPP (EKI, 2022).

Overall Assessment of Data

The analyses were conducted within all specifications of the methods. No results were rejected in these SDGs.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Summary Report by Analysis Method

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 481683						
Method: 6010B						
ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-L-LA	481683-004	WIPE	N	3050B	3/16/2023 11:45:00 AM	S3VEM
ARCH-C3E-DG-2.5 TO 3-230316-L-FB	481683-008	WIPE	N	3050B	3/16/2023 12:00:00 PM	S3VEM
ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-L-LA	481683-002	WIPE	N	3050B	3/16/2023 11:15:00 AM	S3VEM
ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-L-LA	481683-006	WIPE	N	3050B	3/16/2023 12:20:00 PM	S3VEM
Method: 8082						
ARCH-C3E-DG-1.5 TO 2-DN-C3.5-DG-230316-P-LA	481683-003	WIPE	N	3546	3/16/2023 11:45:00 AM	S3VEM
ARCH-C3E-DG-2.5 TO 3-230316-P-FB	481683-007	WIPE	N	3546	3/16/2023 12:00:00 PM	S3VEM
ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-P-LA	481683-001	WIPE	N	3546	3/16/2023 11:15:00 AM	S3VEM
ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-P-LA	481683-005	WIPE	N	3546	3/16/2023 12:20:00 PM	S3VEM

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*		*Collection Date*	*Validation Code*
Lab Reporting Batch: 481689							
Method: 6010B							
230316-L-MEDBLANK2	481689-033	WIPE	FB	3050B		3/16/2023 11:02:00 AM	S2AVE
ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-L-LA	481689-004	WIPE	N	3050B		3/16/2023 12:10:00 PM	S2AVE
ARCH-C3E-DG-4 TO 4.5-230316-L-FB	481689-013	WIPE	N	3050B		3/16/2023 11:10:00 AM	S2AVE
ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-L-LA	481689-018	WIPE	N	3050B		3/16/2023 11:30:00 AM	S2AVE
ARCH-C3E-DG-4 TO 4.5-UP-C3.4-VS-230316-L-LA	481689-011	WIPE	N	3050B		3/16/2023 1:00:00 PM	S2AVE
ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-L-LA	481689-031	WIPE	N	3050B		3/16/2023 12:45:00 PM	S2AVE
ARCH-C3E-EXT-4 TO 5-230316-L-WF	481689-020	WIPE	N	3050B		3/16/2023 11:25:00 AM	S2AVE
ARCH-C3E-PS-3.5-230316-L-G	481689-008	WIPE	N	3050B		3/16/2023 12:45:00 PM	S2AVE
ARCH-C3E-PS-4.5-230316-L-G	481689-026	WIPE	N	3050B		3/16/2023 11:55:00 AM	S2AVE
ARCH-C4E-DG-4.5 TO 5-230316-L-DUP-FB	481689-029	WIPE	FD	3050B		3/16/2023 12:55:00 PM	S2AVE
ARCH-C4E-DG-4.5 TO 5-230316-L-FB	481689-028	WIPE	N	3050B		3/16/2023 12:55:00 PM	S2AVE
ARCH-C4E-EXT-2 TO 3-230316-L-WF	481689-002	WIPE	N	3050B		3/16/2023 11:00:00 AM	S2AVE
ARCH-C4E-PS-3.5-230316-L-G	481689-006	WIPE	N	3050B		3/16/2023 1:10:00 PM	S2AVE
ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230316-L-LA	481689-009	WIPE	N	3050B		3/16/2023 1:20:00 PM	S2AVE
ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-L-LA	481689-022	WIPE	N	3050B		3/16/2023 12:35:00 PM	S2AVE
ARCH-C5E-INT-3.5 TO 4.5-230316-L-WF	481689-016	WIPE	N	3050B		3/16/2023 11:40:00 AM	S2AVE
ARCH-C5E-PS-4.5-230316-L-G	481689-024	WIPE	N	3050B		3/16/2023 12:10:00 PM	S2AVE
Method: 8082							
230316-P-MEDBLANK2	481689-032	WIPE	FB		3546	3/16/2023 11:02:00 AM	S2AVE
ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-P-LA	481689-003	WIPE	N		3546	3/16/2023 12:10:00 PM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Method: 8082						
ARCH-C3E-DG-4 TO 4.5-230316-P-FB	481689-012	WIPE	N	3546	3/16/2023 11:10:00 AM	S2AVE
ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-P-LA	481689-017	WIPE	N	3546	3/16/2023 11:30:00 AM	S2AVE
ARCH-C3E-DG-4 TO 4.5-UP-C3.4-VS-230316-P-LA	481689-010	WIPE	N	3546	3/16/2023 1:00:00 PM	S2AVE
ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-P-LA	481689-030	WIPE	N	3546	3/16/2023 12:45:00 PM	S2AVE
ARCH-C3E-EXT-4 TO 5-230316-P-WF	481689-019	WIPE	N	3546	3/16/2023 11:25:00 AM	S2AVE
ARCH-C3E-PS-3.5-230316-P-G	481689-007	WIPE	N	3546	3/16/2023 12:45:00 PM	S2AVE
ARCH-C3E-PS-4.5-230316-P-G	481689-025	WIPE	N	3546	3/16/2023 11:55:00 AM	S2AVE
ARCH-C4E-DG-4.5 TO 5-230316-P-FB	481689-027	WIPE	N	3546	3/16/2023 12:55:00 PM	S2AVE
ARCH-C4E-EXT-2 TO 3-230316-P-WF	481689-001	WIPE	N	3546	3/16/2023 11:00:00 AM	S2AVE
ARCH-C4E-PS-3.5-230316-P-G	481689-005	WIPE	N	3546	3/16/2023 1:10:00 PM	S2AVE
ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-P-LA	481689-021	WIPE	N	3546	3/16/2023 12:35:00 PM	S2AVE
ARCH-C5E-INT-3.5 TO 4.5-230316-P-DUP-WF	481689-015	WIPE	FD	3546	3/16/2023 11:40:00 AM	S2AVE
ARCH-C5E-INT-3.5 TO 4.5-230316-P-WF	481689-014	WIPE	N	3546	3/16/2023 11:40:00 AM	S2AVE
ARCH-C5E-PS-4.5-230316-P-G	481689-023	WIPE	N	3546	3/16/2023 12:10:00 PM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*

Validation Label Legend

Label Code	*Label Decription*	*EPA Level*
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with calibration
S2BVM	Stage_2B_Validation_Manual	Level 3 with calibration
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with calibration
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: 481683

Laboratory: Enthalpy Orange

EDD Filename: Prep481683

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 481689
EDD Filename: Prep481689

Laboratory: Enthalpy Orange
eQAPP Name:

No Data Review Qualifiers Applied.

Enclosure I

Validation Outlier Reports

Quality Control
Outlier Reports

481683

(No Outliers)

LDC #: 56553A3b
SDG #: 481683
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 3

Date: 5/9/23
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Initial calibration/ICV	A/A	%D/RSD ≤ 20, r ICV ≤ 20
III.	Continuing calibration	A	CCV ≤ 20
IV.	Laboratory Blanks	A	
V.	Field blanks	~~ND~~ N	~~FB = 4~~ [illegible] 6/6/2023
VI.	Surrogate spikes 1,7	A/A	
VII.	Matrix spike/Matrix spike duplicates	N	CS
VIII.	Laboratory control samples	A	LCS M
IX.	Field duplicates	N	
X.	Target analyte quantitation	A	
XI.	Target analyte identification	A	MJ
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-P-LA	481683-001	Wipe	03/16/23
2	ARCH-C5E-DG-1.5 TO 2-DN-C3.5-DG-230316-P-LA	481683-003	Wipe	03/16/23
3	ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-P-LA	481683-005	Wipe	03/16/23
4	ARCH-C5E-DG-2.5 TO 3-230316-P-FB	481683-007	Wipe	03/16/23
5				
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

	310026						

LDC #: 56553A3b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: ✓GC __HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?		✓		
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target analytes detected in the field blanks?		✓		
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

_____

_____

LDC #: 56553A3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT
2nd Reviewer: _____

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (500.0 std)	Recalculated CF (500.0 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL GC06	3/6/23	1260-2 chA	0.0920	0.0920	0.0921	0.0921	17	17
			1260-2 chB	0.0693	0.0693	0.0648	0.0648	16	16
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56553A3b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of target analyte
C = Concentration of target analyte

#	Standard ID	Calibration Date	Target Analyte	Average CF(Ical)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	3/20/23 1014	Aroclor 1260 ch A	500.0	529.9	529.9	6	6
			ch B	500.0	505.7	505.7	1	1
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56553A3b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX		50.0	36.0179	72	72	0
PCB		↓	39.5068	79	79	↓

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 56553A3b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample

SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: LCS/D 310026

Compound	Spike Added (ug/100xm²) ✓		Spike Sample Concentration (ug/100xm²) ✓		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	5.00	5.00	4.194	4.097	84	84	82	82	2	2

Comments: _____

LDC #: 56553A3b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

METHOD: ✓ GC __ HPLC

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the target analyte to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the target analyte In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. LCS 310026 Aroclor 1260

Concentration = 419.4 (10) / (1.0)(1000) =

4.194 ug/100 cm²

#	Sample ID	Target analyte	Reported Concentrations (ug/100 cm²) ✓	Recalculated Results Concentrations ✓ (ug/100 cm²)	Qualifications
	LCS	Aroclor 1260	4.194		
	1260-2= 95 47413.0 (20.0) / 68608600.39 (0.0648)		= 429.0	1260-1 = 445.1	
				2 = 429.0	
				3 = 412.1	
				4 = 416.4	
				5 = 394.4	
				419.4	

Comments: _____

LDC #: 56553A4b

SDG #: 481683

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 3

Date: 06/5/23

Page: 1 of 1

Reviewer: JC

2nd Reviewer: MM

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	A	
IV.	Laboratory Blanks	A	
V.	Field Blanks	~~ND~~ N ~~FB: 4~~ BM 6/6/2023	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C5E-DG-1.5 TO 2-DN-C5.7-VS-230316-L-LA	481683-002	Wipe	03/16/23
2	ARCH-C5E-DG-1.5 TO 2-DN-C3.5-DG-230316-L-LA	481683-004	Wipe	03/16/23
3	ARCH-C5E-DG-2.5 TO 3-UP-C5.5-VS-230316-L-LA	481683-006	Wipe	03/16/23
4	ARCH-C5E-DG-2.5 TO 3-230316-L-FB	481683-008	Wipe	03/16/23
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	x			
Were all water samples preserved to a pH of <2.			x	
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			x	
Were %RSDs of isoptoes in the tuning solution ≤5%?			x	
III. Calibration				
Were all instruments calibrated daily?	x			
Were the proper standards used?	x			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	x			
Were the low level standard checks within 70-130%?			x	
Were all initial calibration correlation coefficients within limits as specifed by the method?	x			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	x			
Was there contamination in the method blanks?		x		
Was there contamination in the initial and continuing calibration blanks?		x		
V. Interference Check Sample				
Were the interference check samples performed daily?	x			
Were the AB solution recoveries within 80-120%?	x			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			x	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			x	
VII. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	x			
Were the LCS recoveries and RPDs (if applicable) within QC limits?	x			

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			x	
If the recoveries were outside the limits, was a reanalysis performed?			x	
IX. Serial Dilution				
Were all percent differences <10%?			x	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			x	
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	x			
Were all soil samples dry weight corrected?			x	
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	x			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?		x		
Were target analytes detected in the field duplicates?			x	
XIII. Field Blanks				
Were field blanks identified in this SDG?	x			
Were target analytes detected in the field blanks?		x		

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

An intial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = (Found/True) x 100

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

Standard ID	Type of Analysis	Element	Found (mg/L)	True (mg/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP	Pb	0.9857	1	98.57	99	Y
CCV	ICP	Pb	0.954	1	95.4	95	Y
LLCC	ICP						
ICSAB	ICP	Pb	0.9724	1	97.24	97	Y
ICV	ICP-MS						
CCV	ICP-MS						
LLCC	ICP-MS						
ICSAB	ICP-MS						
ICV	CVAA						
CCV	CVAA						

ICP-MS Tune	QC Parameter	Mass	Actual	Required
	Mass Axis			± 0.1 amu
	%RSD			≤ 5%

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

%R = (Found/True) x 100

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

RPD = (Absolute value(S-D)x 200) / (S+D)

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

%D = (Absolute value (I - SDR)) x 100 / (I)

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

Sample ID	Type of Analysis	Element	Found/S/I	True/D/SDR	Recalculated %R/RPD/%D	Reported %R/RPD/%D	Acceptable (Y/N)
LCS	LCS	Pb	93.9215	100	93.9215	94	Y
	MS						
	Duplicate						
	PDS						
	Serial dilution						

VALIDATION FINDINGS CHECKLIST
Sample Calculation Verification

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)
Analytes were recalculated and verified using the following equation:
Concentration = (Result from raw data x Final volume x Dilution factor) / (Percent solids x Initial weight)

Sample ID	Analyte	Raw Data (ug/ft2)	Dilution	Initial Weight/ Volume (ft2)	Final Volume (ml)	Percent solids (%)	Reported Result (ug/ft2)	Recalculated Result (ug/ft2)	Acceptable (Y/N)
1	Pb	0.29188	1	1.02	50	100	14	14.30784314	Y
2	Pb	0.38963	1	1	50	100	19	19.4815	Y
3	Pb	0.12944	1	1	50	100	6.5	6.472	Y
4	Pb	0.15999	1	1	50	100	8	7.9995	Y

Quality Control
Outlier Reports

481689

LDC #: 56553B3b
SDG #: 481689
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 2A

Date: 6/6/2023
Page: ___ of ___
Reviewer: BN
2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	ND	FB = 16
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	ND	FD = 7/8
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C4E-EXT-2 TO 3-230316-P-WF	481689-001	Wipe	03/16/23
2	ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-P-LA	481689-003	Wipe	03/16/23
3	ARCH-C4E-PS-3.5-230316-P-G	481689-005	Wipe	03/16/23
4	ARCH-C3E-PS-3.5-230316-P-G	481689-007	Wipe	03/16/23
5	ARCH-C5E-DG-4 TO 4.5-UP-C3.4-VS-230316-P-LA	481689-010	Wipe	03/16/23
6	ARCH-C3E-DG-4 TO 4.5-230316-P-FB	481689-012	Wipe	03/16/23
7	ARCH-C5E-INT-3.5 TO 4.5-230316-P-WF	481689-014	Wipe	03/16/23
8	ARCH-C5E-INT-3.5 TO 4.5-230316-P-DUP-WF	481689-015	Wipe	03/16/23
9	ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-P-LA	481689-017	Wipe	03/16/23
10	ARCH-C3E-EXT-4 TO 5-230316-P-WF	481689-019	Wipe	03/16/23
11	ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-P-LA	481689-021	Wipe	03/16/23
12	ARCH-C5E-PS-4.5-230316-P-G	481689-023	Wipe	03/16/23
13	ARCH-C3E-PS-4.5-230316-P-G	481689-025	Wipe	03/16/23
14	ARCH-C4E-DG-4.5 TO 5-230316-P-FB	481689-027	Wipe	03/16/23
15	ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-P-LA	481689-030	Wipe	03/16/23
16	230316-P-MEDBLANK2	481689-032	Wipe	03/16/23
17				

LDC #: 56553B4b

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 6/6/2023

SDG #: 481689

Page: __ of __

Laboratory: Enthalpy Analytical, Orange, CA

Reviewer: BM

2nd Reviewer: _____

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	A	
V.	Field Blanks	SW	FB=17
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	SW	FD= 14/15
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C4E-EXT-2 TO 3-230316-L-WF	481689-002	Wipe	03/16/23
2	ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230316-L-LA	481689-004	Wipe	03/16/23
3	ARCH-C4E-PS-3.5-230316-L-G	481689-006	Wipe	03/16/23
4	ARCH-C3E-PS-3.5-230316-L-G	481689-008	Wipe	03/16/23
5	ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230316-L-LA	481689-009	Wipe	03/16/23
6	ARCH-C5E-DG-4 TO 4.5-UP-C3.4-VS-230316-L-LA	481689-011	Wipe	03/16/23
7	ARCH-C3E-DG-4 TO 4.5-230316-L-FB	481689-013	Wipe	03/16/23
8	ARCH-C5E-INT-3.5 TO 4.5-230316-L-WF	481689-016	Wipe	03/16/23
9	ARCH-C3E-DG-4 TO 4.5-DN-C3.1-DG-230316-L-LA	481689-018	Wipe	03/16/23
10	ARCH-C3E-EXT-4 TO 5-230316-L-WF	481689-020	Wipe	03/16/23
11	ARCH-C5E-DG-4.5 TO 5-UP-C5.6-DG-230316-L-LA	481689-022	Wipe	03/16/23
12	ARCH-C5E-PS-4.5-230316-L-G	481689-024	Wipe	03/16/23
13	ARCH-C3E-PS-4.5-230316-L-G	481689-026	Wipe	03/16/23
14	ARCH-C4E-DG-4.5 TO 5-230316-L-FB	481689-028	Wipe	03/16/23
15	ARCH-C4E-DG-4.5 TO 5-230316-L-DUP-FB	481689-029	Wipe	03/16/23
16	ARCH-C3E-DG-5 TO 5.5-DN-C3.6-VS-230316-L-LA	481689-031	Wipe	03/16/23
17	230316-L-MEDBLANK2	481689-033	Wipe	03/16/23

Field Blank Contamination Report

Lab Reporting Batch ID: 481689

Laboratory: Enthalpy Orange

EDD Filename: Prep481689

Moffett_Hangar_1_NTCRA_Enthalpy_230403

Method: 6010B
Matrix: WIPE

Analyte	*Sample*	*Concentration (ug/ft2)*	*Flag*
LEAD	230316-L-MEDBLANK2	0.64	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: 481689 **Laboratory: Enthalpy Orange**

EDD Filename: Prep481689 **eQAPP Name:**

Method: 6010B
Matrix: WIPE

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	ARCH-C4E-DG-4.5 TO 5-230316-L-FB (TOT)	ARCH-C4E-DG-4.5 TO 5-230316-L-DUP-FB			
LEAD	34	42	21	100.00	No Qualifiers Applied

Project Name and Number: 20-10491 - Hangar 1 NTCRA

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Rincon Consultants, Inc.
250 E. 1st Street Suite 1400
Los Angeles, CA – 90012
ATTN: Mr. Ryan Thacher
rthacher@rinconconsultants.com

June 8, 2023

SUBJECT: Hangar 1 NTCRA - Data Validation

Dear Mr. Thacher,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on May 2, 2023. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #56623:

SDG #	**Fraction**
483449	Polychlorinated Biphenyls, Lead
483488	
483492	

The data validation was performed under Stage 2A & 3 guidelines. The analysis was validated using the following documents, as applicable to each method:

- USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020)
- USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,



Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

167 pages-ADV EDD

Attachment 1

Stage 2A/3 (client select) **LDC# 56623 (Rincon Consultants, Inc., Los Angeles, CA / Hangar 1 NTCRA)** **Project# 20-10491**

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082)		Pb (6010B)																													
Matrix:	Water/Soil/Wipe			W	WP	W	WP	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	483449	05/02/23	05/23/23	0	12	0	12																												
B	483488	05/02/23	05/23/23	0	15	0	15																												
C	483492	05/02/23	05/23/23	0	33	0	33																												
Total	TR/PG			0	60	0	60	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	120

Shaded cells indicate Stage 3 validation (all other cells are Stage 2A validation). Sample counts do not include MS, MSD, and DUP's. V:\LOGIN\Rincon\Moffett Field, Hangar 1 NTCRA\56623ST-Wipe.wpd

LDC Report# 56623

Automated Data Review Data Validation Report
Hangar 1 NTCRA

Sample Delivery Groups

483449
483488
483492

June 8, 2023

Introduction

This Data Validation Report (DVR) presents Stage 2A and Stage 3 data validation results for samples collected during the April 2023 sampling period. Data validation was performed in accordance with a modified outline of the US Environmental Protection Agency (EPA) National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020) and USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Polychlorinated Biphenyls (PCBs) by EPA SW 846 Method 8082
Lead by EPA SW 846 Method 6010B

Sample identifications, methods of analyses performed, and review levels on each sample are presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Automated Data Review outliers and manual data validation worksheets are presented in Enclosure I.

All sample results were subjected to Stage 2A data validation, which comprises an evaluation of quality control (QC) summary results. Selected samples were subjected to Stage 3 data validation as indicated on the Sample Summary Report. Stage 3 data validation is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

Initial Calibration and Initial Calibration Verification

8082
The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all analytes.

Average relative response factors (RRF) for all analytes were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all analytes.

Initial calibration data were not reviewed for Stage 2A validation.

6010B
An initial calibration was performed as required by the method.

The initial calibration verification (ICV) standards were within QC limits.

Initial calibration data were not reviewed for Stage 2A validation.

Continuing Calibration

8082
Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all analytes.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

Continuing calibration data were not reviewed for Stage 2A validation.

6010B
Continuing calibrations were performed as required by the method.

The continuing calibration verification (CCV) standards were within QC limits.

Continuing calibration data were not reviewed for Stage 2A validation.

ICP Interference Check Sample Analysis

6010B
The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

Although lead was found in the ICSA standard, no qualification was necessary since the interferent concentrations in the samples were less than ninety percent of the spiked interference concentrations in the ICSA.

Interference check sample (ICS) analysis data were not reviewed for Stage 2A validation.

Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminants were detected in the laboratory blanks.

Field Blanks

8082
Two media blanks were collected and analyzed. No contaminants were found.

6010B
Two media blanks were collected and analyzed. Both media blanks had detections for lead. The associated sample results were not detected or were significantly greater than the concentrations found in the media blanks, therefore no data were qualified. The details are presented in Enclosure I.

Surrogate Spikes

8082
Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

Internal Standards

8082
All internal standard areas and retention times were within QC limits.

Internal standard data were not reviewed for Stage 2A validation.

Matrix Spike/Matrix Spike Duplicates

The collection of MS/MSDs for wipe samples is not required per the agency-approved UFP-QAPP.

Duplicate Sample Analysis

6010B
The laboratory has indicated that there were no laboratory duplicate (DUP) analyses specified for this method, and therefore laboratory duplicate analyses were not performed. The lack of laboratory duplicate samples is consistent with the UFP-QAPP for the Hangar 1 NTCRA (EKI, 2022).

Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control samples duplicates (LCSD) were analyzed as required by the methods. Percent recoveries (%R) were within QC limits. Relative percent differences (RPD) were within QC limits.

Field Duplicates

8082
Five field duplicate pairs were collected and analyzed. No results were detected in the field duplicates. The field duplicates are identified in Attachment 1.

6010B
Five field duplicate pairs were collected and analyzed. Five field duplicates had detections for lead. All RPDs and absolute differences were within QC limits. The field duplicate result comparisons are presented in Enclosure I.

Target Analyte Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements in the UFP-QAPP (EKI, 2022).

Overall Assessment of Data

The analyses were conducted within all specifications of the methods. No results were rejected in these SDGs.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Summary Report by Analysis Method

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 483449						
Method: 6010B						
AFRAME-C3E-LAT-L3-DN-C3.3-DG-230414-L-LA	483449-020	WIPE	N	3050B	4/14/2023 10:50:00 AM	S3VEM
AFRAME-C3E-LAT-L3-EXT-0 TO 1-230414-L-WF	483449-022	WIPE	N	3050B	4/14/2023 9:50:00 AM	S3VEM
AFRAME-C3E-LAT-L3-UP-C3E-DG-230414-L-LA	483449-018	WIPE	N	3050B	4/14/2023 9:30:00 AM	S3VEM
AFRAME-C3E-MED-L3-INT-1 TO 2-230414-L-DUP-WF	483449-010	WIPE	FD	3050B	4/14/2023 9:10:00 AM	S3VEM
AFRAME-C3E-MED-L3-INT-1 TO 2-230414-L-WF	483449-009	WIPE	N	3050B	4/14/2023 9:10:00 AM	S3VEM
AFRAME-C4E-LAT-L3-EXT-1 TO 2-230414-L-DUP-WF	483449-007	WIPE	FD	3050B	4/14/2023 9:30:00 AM	S3VEM
AFRAME-C4E-LAT-L3-EXT-1 TO 2-230414-L-WF	483449-006	WIPE	N	3050B	4/14/2023 9:30:00 AM	S3VEM
AFRAME-C4E-MED-L3-INT-0 TO 1-230414-L-WF	483449-015	WIPE	N	3050B	4/14/2023 10:10:00 AM	S3VEM
AFRAME-C5E-LAT-L3-DN-C5.3-DG-230414-L-LA	483449-024	WIPE	N	3050B	4/14/2023 10:40:00 AM	S3VEM
AFRAME-C5E-LAT-L3-UP-C5.2-VS-230414-L-LA	483449-002	WIPE	N	3050B	4/14/2023 9:55:00 AM	S3VEM
AFRAME-C5E-MED-L3-DN-C5.6-DG-230414-L-LA	483449-013	WIPE	N	3050B	4/14/2023 10:20:00 AM	S3VEM
AFRAME-C5E-MED-L3-UP-C5.6-HM-230414-L-CB	483449-004	WIPE	N	3050B	4/14/2023 9:45:00 AM	S3VEM
Method: 8082						
AFRAME-C3E-LAT-L3-DN-C3.3-DG-230414-P-LA	483449-019	WIPE	N	3546	4/14/2023 10:50:00 AM	S3VEM
AFRAME-C3E-LAT-L3-EXT-0 TO 1-230414-P-WF	483449-021	WIPE	N	3546	4/14/2023 9:50:00 AM	S3VEM
AFRAME-C3E-LAT-L3-UP-C3E-DG-230414-P-DUP-LA	483449-017	WIPE	N	3546	4/14/2023 9:30:00 AM	S3VEM
AFRAME-C3E-LAT-L3-UP-C3E-DG-230414-P-LA	483449-016	WIPE	N	3546	4/14/2023 9:30:00 AM	S3VEM
AFRAME-C3E-MED-L3-INT-1 TO 2-230414-P-WF	483449-008	WIPE	N	3546	4/14/2023 9:10:00 AM	S3VEM
AFRAME-C4E-LAT-L3-EXT-1 TO 2-230414-P-WF	483449-005	WIPE	N	3546	4/14/2023 9:30:00 AM	S3VEM
AFRAME-C4E-MED-L3-INT-0 TO 1-230414-P-WF	483449-014	WIPE	N	3546	4/14/2023 10:10:00 AM	S3VEM

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Method: 8082						
AFRAME-C5E-LAT-L3-DN-C5.3-DG-230414-P-LA	483449-023	WIPE	N	3546	4/14/2023 10:40:00 AM	S3VEM
AFRAME-C5E-LAT-L3-UP-C5.2-VS-230414-P-LA	483449-001	WIPE	N	3546	4/14/2023 9:55:00 AM	S3VEM
AFRAME-C5E-MED-L3-DN-C5.6-DG-230414-P-DUP-LA	483449-012	WIPE	FD	3546	4/14/2023 10:20:00 AM	S3VEM
AFRAME-C5E-MED-L3-DN-C5.6-DG-230414-P-LA	483449-011	WIPE	N	3546	4/14/2023 10:20:00 AM	S3VEM
AFRAME-C5E-MED-L3-UP-C5.6-HM-230414-P-CB	483449-003	WIPE	N	3546	4/14/2023 9:45:00 AM	S3VEM

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*		*Collection Date*	*Validation Code*
Lab Reporting Batch: 483488							
Method: 6010B							
ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-L-LA	483488-012	WIPE	N	3050B		4/14/2023 8:10:00 AM	S2AVE
ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-L-LA	483488-021	WIPE	N	3050B		4/14/2023 8:05:00 AM	S2AVE
ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230414-L-LA	483488-030	WIPE	N	3050B		4/14/2023 9:20:00 AM	S2AVE
ARCH-C3E-EXT-7 TO 8-230414-L-DUP-WF	483488-026	WIPE	FD	3050B		4/14/2023 8:30:00 AM	S2AVE
ARCH-C3E-EXT-7 TO 8-230414-L-WF	483488-025	WIPE	N	3050B		4/14/2023 8:30:00 AM	S2AVE
ARCH-C3E-PS-5.5-230414-L-G	483488-006	WIPE	N	3050B		4/14/2023 7:25:00 AM	S2AVE
ARCH-C3E-PS-6.5-230414-L-G	483488-018	WIPE	N	3050B		4/14/2023 8:00:00 AM	S2AVE
ARCH-C4E-DG-7 TO 7.5-230414-L-FB	483488-023	WIPE	N	3050B		4/14/2023 8:20:00 AM	S2AVE
ARCH-C4E-PS-5.5-230414-L-G	483488-004	WIPE	N	3050B		4/14/2023 7:45:00 AM	S2AVE
ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-L-LA	483488-002	WIPE	N	3050B		4/14/2023 7:11:00 AM	S2AVE
ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-L-LA	483488-008	WIPE	N	3050B		4/14/2023 8:00:00 AM	S2AVE
ARCH-C5E-DG-6 TO 6.5-230414-L-FB	483488-010	WIPE	N	3050B		4/14/2023 8:20:00 AM	S2AVE
ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-L-LA	483488-014	WIPE	N	3050B		4/14/2023 8:30:00 AM	S2AVE
ARCH-C5E-EXT-8 TO 9-230414-L-WF	483488-028	WIPE	N	3050B		4/14/2023 8:50:00 AM	S2AVE
ARCH-C5E-PS-6.5-230414-L-G	483488-016	WIPE	N	3050B		4/14/2023 8:40:00 AM	S2AVE
Method: 8082							
ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-P-LA	483488-011	WIPE	N		3546	4/14/2023 8:10:00 AM	S2AVE
ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-P-DUP-LA	483488-020	WIPE	FD		3546	4/14/2023 8:05:00 AM	S2AVE
ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-P-LA	483488-019	WIPE	N		3546	4/14/2023 8:05:00 AM	S2AVE
ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230414-P-LA	483488-029	WIPE	N		3546	4/14/2023 9:20:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Method: 8082						
ARCH-C3E-EXT-7 TO 8-230414-P-WF	483488-024	WIPE	N	3546	4/14/2023 8:30:00 AM	S2AVE
ARCH-C3E-PS-5.5-230414-P-G	483488-005	WIPE	N	3546	4/14/2023 7:25:00 AM	S2AVE
ARCH-C3E-PS-6.5-230414-P-G	483488-017	WIPE	N	3546	4/14/2023 8:00:00 AM	S2AVE
ARCH-C4E-DG-7 TO 7.5-230414-P-FB	483488-022	WIPE	N	3546	4/14/2023 8:20:00 AM	S2AVE
ARCH-C4E-PS-5.5-230414-P-G	483488-003	WIPE	N	3546	4/14/2023 7:45:00 AM	S2AVE
ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-P-LA	483488-001	WIPE	N	3546	4/14/2023 7:11:00 AM	S2AVE
ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-P-LA	483488-007	WIPE	N	3546	4/14/2023 8:00:00 AM	S2AVE
ARCH-C5E-DG-6 TO 6.5-230414-P-FB	483488-009	WIPE	N	3546	4/14/2023 8:20:00 AM	S2AVE
ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-P-LA	483488-013	WIPE	N	3546	4/14/2023 8:30:00 AM	S2AVE
ARCH-C5E-EXT-8 TO 9-230414-P-WF	483488-027	WIPE	N	3546	4/14/2023 8:50:00 AM	S2AVE
ARCH-C5E-PS-6.5-230414-P-G	483488-015	WIPE	N	3546	4/14/2023 8:40:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 483492						
Method: 6010B						
230414-L-MEDBLANK1	483492-062	WIPE	FB	3050B	4/14/2023 9:35:00 AM	S2AVE
230414-L-MEDBLANK2	483492-064	WIPE	FB	3050B	4/14/2023 12:50:00 PM	S2AVE
AFRAME-C3E-LAT-L1-DN-C3E-DG-230414-L-CB	483492-058	WIPE	N	3050B	4/14/2023 2:45:00 PM	S2AVE
AFRAME-C3E-LAT-L1-HS-3-230414-L-A	483492-035	WIPE	N	3050B	4/14/2023 12:55:00 PM	S2AVE
AFRAME-C3E-LAT-L1-INT-2 TO 3-230414-L-FB	483492-022	WIPE	N	3050B	4/14/2023 4:00:00 PM	S2AVE
AFRAME-C3E-LAT-L1-UP-C3.7-HS-230414-L-LA	483492-048	WIPE	N	3050B	4/14/2023 2:20:00 PM	S2AVE
AFRAME-C3E-LAT-L1-UP-C3.7-VS-230414-L-I	483492-033	WIPE	N	3050B	4/14/2023 1:10:00 PM	S2AVE
AFRAME-C3E-LAT-L2-DN-C3.4-DG-230414-L-LA	483492-014	WIPE	N	3050B	4/14/2023 1:55:00 PM	S2AVE
AFRAME-C3E-MED-L1-DN-C3E-DG-230414-L-SS	483492-056	WIPE	N	3050B	4/14/2023 3:10:00 PM	S2AVE
AFRAME-C3E-MED-L1-EXT-1 TO 2-230414-L-WF	483492-050	WIPE	N	3050B	4/14/2023 2:30:00 PM	S2AVE
AFRAME-C3E-MED-L1-HS-3-230414-L-G	483492-024	WIPE	N	3050B	4/14/2023 3:50:00 PM	S2AVE
AFRAME-C3E-MED-L1-INT-0 TO 1-230414-L-FB	483492-060	WIPE	N	3050B	4/14/2023 3:00:00 PM	S2AVE
AFRAME-C3E-MED-L1-UP-C3.1-VS-230414-L-LA	483492-020	WIPE	N	3050B	4/14/2023 3:45:00 PM	S2AVE
AFRAME-C3E-MED-L1-UP-C3.6-DG-230414-L-SS	483492-037	WIPE	N	3050B	4/14/2023 1:25:00 PM	S2AVE
AFRAME-C3E-MED-L2-DN-C3.7-VS-230414-L-LA	483492-065	WIPE	N	3050B	4/14/2023 2:10:00 PM	S2AVE
AFRAME-C4E-LAT-L1-HS-3-230414-L-A	483492-031	WIPE	N	3050B	4/14/2023 3:30:00 PM	S2AVE
AFRAME-C4E-LAT-L1-INT-1 TO 2-230414-L-FB	483492-046	WIPE	N	3050B	4/14/2023 2:10:00 PM	S2AVE
AFRAME-C4E-MED-L1-EXT-2 TO 3-230414-L-WF	483492-016	WIPE	N	3050B	4/14/2023 2:50:00 PM	S2AVE
AFRAME-C4E-MED-L2-INT-1 TO 2-230414-L-FB	483492-011	WIPE	N	3050B	4/14/2023 1:00:00 PM	S2AVE
AFRAME-C5E-LAT-L1-EXT-1 TO 2-230414-L-DUP-WF	483492-044	WIPE	FD	3050B	4/14/2023 1:50:00 PM	S2AVE

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Method: 6010B						
AFRAME-C5E-LAT-L1-EXT-1 TO 2-230414-L-WF	483492-043	WIPE	N	3050B	4/14/2023 1:50:00 PM	S2AVE
AFRAME-C5E-LAT-L1-UP-C5.1-VS-230414-L-I	483492-026	WIPE	N	3050B	4/14/2023 3:10:00 PM	S2AVE
AFRAME-C5E-LAT-L1-UP-C5E-DG-230414-L-LA	483492-018	WIPE	N	3050B	4/14/2023 2:40:00 PM	S2AVE
AFRAME-C5E-LAT-L2-INT-1 TO 2-230414-L-DUP-FB	483492-009	WIPE	FD	3050B	4/14/2023 1:10:00 PM	S2AVE
AFRAME-C5E-LAT-L2-INT-1 TO 2-230414-L-FB	483492-008	WIPE	N	3050B	4/14/2023 1:10:00 PM	S2AVE
AFRAME-C5E-LAT-L2-UP-C5.6-VS-230414-L-I	483492-004	WIPE	N	3050B	4/14/2023 1:30:00 PM	S2AVE
AFRAME-C5E-LAT-L3-DN-C5.1-DG-230414-L-LA	483492-002	WIPE	N	3050B	4/14/2023 10:35:00 AM	S2AVE
AFRAME-C5E-MED-L1-DN-C5E-DG-230414-L-SS	483492-052	WIPE	N	3050B	4/14/2023 3:30:00 PM	S2AVE
AFRAME-C5E-MED-L1-HS-3-230414-L-A	483492-028	WIPE	N	3050B	4/14/2023 3:00:00 PM	S2AVE
AFRAME-C5E-MED-L1-INT-0 TO 1-230414-L-FB	483492-054	WIPE	N	3050B	4/14/2023 3:15:00 PM	S2AVE
AFRAME-C5E-MED-L1-UP-C5.6-DG-230414-L-SS	483492-039	WIPE	N	3050B	4/14/2023 1:30:00 PM	S2AVE
AFRAME-C5E-MED-L1-UP-C5.7-HS-230414-L-LA	483492-041	WIPE	N	3050B	4/14/2023 1:40:00 PM	S2AVE
AFRAME-C5E-MED-L2-DN-C5.4-DG-230414-L-LA	483492-006	WIPE	N	3050B	4/14/2023 2:30:00 PM	S2AVE
Method: 8082						
230414-P-MEDBLANK1	483492-061	WIPE	FB	3546	4/14/2023 9:35:00 AM	S2AVE
230414-P-MEDBLANK2	483492-063	WIPE	FB	3546	4/14/2023 12:50:00 PM	S2AVE
AFRAME-C3E-LAT-L1-DN-C3E-DG-230414-P-CB	483492-057	WIPE	N	3546	4/14/2023 2:45:00 PM	S2AVE
AFRAME-C3E-LAT-L1-HS-3-230414-P-A	483492-034	WIPE	N	3546	4/14/2023 12:55:00 PM	S2AVE
AFRAME-C3E-LAT-L1-INT-2 TO 3-230414-P-FB	483492-021	WIPE	N	3546	4/14/2023 4:00:00 PM	S2AVE
AFRAME-C3E-LAT-L1-UP-C3.7-HS-230414-P-LA	483492-047	WIPE	N	3546	4/14/2023 2:20:00 PM	S2AVE
AFRAME-C3E-LAT-L1-UP-C3.7-VS-230414-P-I	483492-032	WIPE	N	3546	4/14/2023 1:10:00 PM	S2AVE

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Method: 8082						
AFRAME-C3E-LAT-L2-DN-C3.4-DG-230414-P-DUP-LA	483492-013	WIPE	FD	3546	4/14/2023 1:55:00 PM	S2AVE
AFRAME-C3E-LAT-L2-DN-C3.4-DG-230414-P-LA	483492-012	WIPE	N	3546	4/14/2023 1:55:00 PM	S2AVE
AFRAME-C3E-MED-L1-DN-C3E-DG-230414-P-SS	483492-055	WIPE	N	3546	4/14/2023 3:10:00 PM	S2AVE
AFRAME-C3E-MED-L1-EXT-1 TO 2-230414-P-WF	483492-049	WIPE	N	3546	4/14/2023 2:30:00 PM	S2AVE
AFRAME-C3E-MED-L1-HS-3-230414-P-G	483492-023	WIPE	N	3546	4/14/2023 3:50:00 PM	S2AVE
AFRAME-C3E-MED-L1-INT-0 TO 1-230414-P-FB	483492-059	WIPE	N	3546	4/14/2023 3:00:00 PM	S2AVE
AFRAME-C3E-MED-L1-UP-C3.1-VS-230414-P-LA	483492-019	WIPE	N	3546	4/14/2023 3:45:00 PM	S2AVE
AFRAME-C3E-MED-L1-UP-C3.6-DG-230414-P-SS	483492-036	WIPE	N	3546	4/14/2023 1:25:00 PM	S2AVE
AFRAME-C3E-MED-L2-DN-C3.7-VS-230414-P-LA	483492-066	WIPE	N	3546	4/14/2023 2:10:00 PM	S2AVE
AFRAME-C4E-LAT-L1-HS-3-230414-P-A	483492-029	WIPE	N	3546	4/14/2023 3:30:00 PM	S2AVE
AFRAME-C4E-LAT-L1-HS-3-230414-P-DUP-A	483492-030	WIPE	FD	3546	4/14/2023 3:30:00 PM	S2AVE
AFRAME-C4E-LAT-L1-INT-1 TO 2-230414-P-FB	483492-045	WIPE	N	3546	4/14/2023 2:10:00 PM	S2AVE
AFRAME-C4E-MED-L1-EXT-2 TO 3-230414-P-WF	483492-015	WIPE	N	3546	4/14/2023 2:50:00 PM	S2AVE
AFRAME-C4E-MED-L2-INT-1 TO 2-230414-P-FB	483492-010	WIPE	N	3546	4/14/2023 1:00:00 PM	S2AVE
AFRAME-C5E-LAT-L1-EXT-1 TO 2-230414-P-WF	483492-042	WIPE	N	3546	4/14/2023 1:50:00 PM	S2AVE
AFRAME-C5E-LAT-L1-UP-C5.1-VS-230414-P-I	483492-025	WIPE	N	3546	4/14/2023 3:10:00 PM	S2AVE
AFRAME-C5E-LAT-L1-UP-C5E-DG-230414-P-LA	483492-017	WIPE	N	3546	4/14/2023 2:40:00 PM	S2AVE
AFRAME-C5E-LAT-L2-INT-1 TO 2-230414-P-FB	483492-007	WIPE	N	3546	4/14/2023 1:10:00 PM	S2AVE
AFRAME-C5E-LAT-L2-UP-C5.6-VS-230414-P-I	483492-003	WIPE	N	3546	4/14/2023 1:30:00 PM	S2AVE
AFRAME-C5E-LAT-L3-DN-C5.1-DG-230414-P-LA	483492-001	WIPE	N	3546	4/14/2023 10:35:00 AM	S2AVE

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Method: 8082						
AFRAME-C5E-MED-L1-DN-C5E-DG-230414-P-SS	483492-051	WIPE	N	3546	4/14/2023 3:30:00 PM	S2AVE
AFRAME-C5E-MED-L1-HS-3-230414-P-A	483492-027	WIPE	N	3546	4/14/2023 3:00:00 PM	S2AVE
AFRAME-C5E-MED-L1-INT-0 TO 1-230414-P-FB	483492-053	WIPE	N	3546	4/14/2023 3:15:00 PM	S2AVE
AFRAME-C5E-MED-L1-UP-C5.6-DG-230414-P-SS	483492-038	WIPE	N	3546	4/14/2023 1:30:00 PM	S2AVE
AFRAME-C5E-MED-L1-UP-C5.7-HS-230414-P-LA	483492-040	WIPE	N	3546	4/14/2023 1:40:00 PM	S2AVE
AFRAME-C5E-MED-L2-DN-C5.4-DG-230414-P-LA	483492-005	WIPE	N	3546	4/14/2023 2:30:00 PM	S2AVE

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (6/6/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*

Validation Label Legend

Label Code	*Label Decription*	*EPA Level*
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with calibration
S2BVM	Stage_2B_Validation_Manual	Level 3 with calibration
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with calibration
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: 483449

Laboratory: Enthalpy Orange

EDD Filename: Prep483449

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 483488

Laboratory: Enthalpy Orange

EDD Filename: Prep483488

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 483492
EDD Filename: Prep483492

Laboratory: Enthalpy Orange
eQAPP Name:

No Data Review Qualifiers Applied.

Enclosure I

Validation Outlier Reports

Quality Control
Outlier Reports

483449

LDC #: 56623A3b

SDG #: 483449

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 3

Date: 5/19/23

Page: 1 of 1

Reviewer: [illegible]

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A /A	
II.	Initial calibration/ICV	A/A	%D ≤ 20 ICV ≤ 20
III.	Continuing calibration	A	CCV ≤ 20
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes 1,3	A /A	
VII.	Matrix spike/Matrix spike duplicates	N	CD
VIII.	Laboratory control samples	A	LCS 1,2
IX.	Field duplicates	ND	D = 5,6 8,9
X.	Target analyte quantitation	A	
XI.	Target analyte identification	A	MI
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C5E-LAT-L3-UP-C5.2-VS-230414-P-LA	483449-001	Wipe	04/14/23
2	AFRAME-C5E-MED-L3-UP-C5.6-HM-230414-P-CB	483449-003	Wipe	04/14/23
3	AFRAME-C4E-LAT-L3-EXT-1 TO 2-230414-P-WF	483449-005	Wipe	04/14/23
4	AFRAME-C3E-MED-L3-INT-1 TO 2-230414-P-WF	483449-008	Wipe	04/14/23
5	AFRAME-C5E-MED-L3-DN-C5.6-DG-230414-P-LA	483449-011	Wipe	04/14/23
6	AFRAME-C5E-MED-L3-DN-C5.6-DG-230414-P-DUP-LA	483449-012	Wipe	04/14/23
7	AFRAME-C4E-MED-L3-INT-0 TO 1-230414-P-WF	483449-014	Wipe	04/14/23
8	AFRAME-C3E-LAT-L3-UP-C3E-DG-230414-P-LA	483449-016	Wipe	04/14/23
9	AFRAME-C3E-LAT-L3-UP-C3E-DG-230414-P-DUP-LA	483449-017	Wipe	04/14/23
10	AFRAME-C3E-LAT-L3-DN-C3.3-DG-230414-P-LA	483449-019	Wipe	04/14/23
11	AFRAME-C3E-LAT-L3-EXT-0 TO 1-230414-P-WF	483449-021	Wipe	04/14/23
12	AFRAME-C5E-LAT-L3-DN-C5.3-DG-230414-P-LA	483449-023	Wipe	04/14/23
13				

Notes:

	3/2006						

LDC #: 56623A3b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: ✓GC __HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			

Validation Area	Yes	No	NA	Findings/Comments
IX. Field duplicates				
Were field duplicate pairs identified in this SDG?	✓			
Were target analytes detected in the field duplicates?		✓		
X. Target analyte quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were analyte quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target analyte identification				
Were the retention times of reported detects within the RT windows?	✓			
Were manual integrations reviewed and found acceptable?	✓			
Did the laboratory provide before and after integration printouts?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 56623A3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Page: 1 of 1
Reviewer: FT
2nd Reviewer:

METHOD: GC ✓ HPLC_____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (250 std)	Recalculated CF (250 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL	4/7/23	1260-1 ch A	0.0680	0.0680	0.0666	0.0666	18	18
			1260-1 ch B	0.0587	0.0587	0.0571	0.0571	14	14
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56623A3b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the target analytes identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of target analyte
C = Concentration of target analyte

#	Standard ID	Calibration Date	Target Analyte	Average CF(Ical)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	4/18/23 0953	Aroclor 1260 ChA	500.0	570.5	570.5	14	14
			↓ ChB	↓	550.5	550.5	10	10
2	CCV	4/19/23 0113	↓	500.0	536.2	536.2	7	7
			↓	↓	485.5	485.5	3	3
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56623A3b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	col B	50	38.4031	77	77	0
DCB	↓	↓	25.7522	52	52	↓

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 56623A3b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC __HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the target analytes identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample
SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 312006 LCS 1D

Compound	Spike Added (ug/100 gm²)		Spike Sample Concentration (ug/100 cm²)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	5.0	5.0	5.020	4.782	100	100	96	96	5	5

Comments: _____

LDC #: 56623A3b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The concentration of the sample was calculated for the target analyte identified below using the following calculation:

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the target analyte to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the target analyte In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. 312006 LCS Aroclor 1260

Concentration = $\frac{501.924 \quad (10)}{(1)(1000)}$ =

= 5.01924

#	Sample ID	Target analyte	Reported Concentrations (ug/100 cm²)	Recalculated Results Concentrations (ug/1000gm)	Qualifications
	LCS	Aroclor 1260	5.020	5.01924	
	1260-1 = ~~3861268.19~~			1260-1 = 523.82	
	1199 4392.807 (20.0)		= 523.82	2 = 491.9	
	(8020248.071)(0.0571)			3 = 520.5	
				4 = 501.7	
				5 = 471.4	
				501.924	

Comments: _____

LDC #: 56623A4b

SDG #: 483449

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 3

Date: 06/06/23

Page: 1 of 1

Reviewer: JC

2nd Reviewer: RM

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	~~A~~ SW	
IV.	Laboratory Blanks	~~A~~	
V.	Field Blanks	~~A~~ N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	SW	(3,4), (5,6)
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C5E-LAT-L3-UP-C5.2- VS-230414-L-LA	483449-002	Wipe	04/14/23
2	AFRAME-C5E-MED-L3-UP-C5.6-HM-230414-L-CB	483449-004	Wipe	04/14/23
3	AFRAME-C4E-LAT-L3-EXT-1 TO 2-230414-L-WF	483449-006	Wipe	04/14/23
4	AFRAME-C4E-LAT-L3-EXT-1 TO 2-230414-L-DUP-WF	483449-007	Wipe	04/14/23
5	AFRAME-C3E-MED-L3-INT-1 TO 2-230414-L-WF	483449-009	Wipe	04/14/23
6	AFRAME-C3E-MED-L3-INT-1 TO 2-230414-L-DUP-WF	483449-010	Wipe	04/14/23
7	AFRAME-C5E-MED-L3-DN-C5.6-DG-230414-L-LA	483449-013	Wipe	04/14/23
8	AFRAME-C4E-MED-L3-INT-0 TO 1-230414-L-WF	483449-015	Wipe	04/14/23
9	AFRAME-C3E-LAT-L3-UP-C3E-DG-230414-L-LA	483449-018	Wipe	04/14/23
10	AFRAME-C3E-LAT-L3-DN-C3.3-DG-230414-L-LA	483449-020	Wipe	04/14/23
11	AFRAME-C3E-LAT-L3-EXT-0 TO 1-230414-L-WF	483449-022	Wipe	04/14/23
12	AFRAME-C5E-LAT-L3-DN-C5.3-DG-230414-L-LA	483449-024	Wipe	04/14/23
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	x			
Were all water samples preserved to a pH of <2.			x	
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			x	
Were %RSDs of isoptoes in the tuning solution ≤5%?			x	
III. Calibration				
Were all instruments calibrated daily?	x			
Were the proper standards used?	x			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	x			
Were the low level standard checks within 70-130%?			x	
Were all initial calibration correlation coefficients within limits as specifed by the method?	x			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	x			
Was there contamination in the method blanks?		x		
Was there contamination in the initial and continuing calibration blanks?		x		
V. Interference Check Sample				
Were the interference check samples performed daily?	x			
Were the AB solution recoveries within 80-120%?	x			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			x	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			x	
VII. Laboratory Control Samples				
Was a LCS analyzed for each batch in the SDG?	x			
Were the LCS recoveries and RPDs (if applicable) within QC limits?	x			

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			x	
If the recoveries were outside the limits, was a reanalysis performed?			x	
IX. Serial Dilution				
Were all percent differences <10%?			x	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			x	
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	x			
Were all soil samples dry weight corrected?			x	
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	x			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?	x			
Were target analytes detected in the field duplicates?	x			
XIII. Field Blanks				
Were field blanks identified in this SDG?		x		
Were target analytes detected in the field blanks?			x	

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020)

All interference check sample A standards were performed at the required frequency with no contamination present with the following exceptions:

Date	Time	Calibration ID	Analyte	Concentration (mg/L)	Limit	Associated Samples	Qualification*	Det/ND
4/17/2023	16:22	ICSA	Pb	-0.007288	0.003333	all	no qual, samples interferents < ICSA	Det

Comments: *For 6010, qualification is only necessary when the interferring elements (Al, Ca, Fe, Mg) are >90% the level in the ICSA. The ICSA

Method: Metals

Analyte	Concentration (ug/ft2)		RPD (≤ 30)	Qualifiers (Parents Only)
	3	4		
Lead	160	170	6	

Analyte	Concentration (ug/ft2)		RPD (≤ 30)	Qualifiers (Parents Only)
	5	6		
Lead	67	77	14	

Field Duplicate RPD Report

Lab Reporting Batch ID: 483449 **Laboratory: Enthalpy Orange**

EDD Filename: Prep483449 **eQAPP Name:**

Method: 6010B
Matrix: WIPE

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	AFRAME-C4E-LAT-L3-EXT-1 TO 2-230414-L-	AFRAME-C4E-LAT-L3-EXT-1 TO 2-230414-L-			
LEAD	160	170	6	100.00	No Qualifiers Applied

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	AFRAME-C3E-MED-L3-INT-1 TO 2-230414-	AFRAME-C3E-MED-L3-INT-1 TO 2-230414-L-			
LEAD	67	77	14	100.00	No Qualifiers Applied

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

An intial calibration verification (ICV), continuing calibration verification (CCV), low level calibration check (LLCC), and interference check sample (ICSAB) percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = (Found/True) x 100

Found = concentration of each analyte measured in the analysis

True = concentration of each analyte in the source

Standard ID	Type of Analysis	Element	Found (mg/L)	True (mg/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
ICV	ICP	Pb	1.012	1	101.2	101	Y
CCV	ICP	Pb	1.039	1	103.9	104	Y
LLCC	ICP						
ICSAB	ICP	Pb	1.088	1	108.8	109	Y
ICV	ICP-MS						
CCV	ICP-MS						
LLCC	ICP-MS						
ICSAB	ICP-MS						
ICV	CVAA						
CCV	CVAA						

ICP-MS Tune	QC Parameter	Mass	Actual	Required
	Mass Axis			± 0.1 amu
	%RSD			≤ 5%

VALIDATION FINDINGS CHECKLIST
Quality Control Sample Recalculations

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)

Percent recoveries (%R) for the laboratory control sample (LCS), matrix spike (MS), and post digestion spike (PDS) were recalculated using the following formula:

%R = (Found/True) x 100

Found = concentration of each analyte measured in the analysis. For the MS calculation, Found = SSR (Spiked Sample Result) - SR (Sample Result)

True = concentration of each analyte in the source

The sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

RPD = (Absolute value(S-D)x 200) / (S+D)

S = Original sample concentration

D = Duplicate sample concentration

The serial dilution percent difference (%D) was recalculated using the following formula.

%D = (Absolute value (I - SDR)) x 100 / (I)

I = Initial sample result

SDR = Serial dilution result (with a 5x dilution applied)

Sample ID	Type of Analysis	Element	Found/S/I	True/D/SDR	Recalculated %R/RPD/%D	Reported %R/RPD/%D	Acceptable (Y/N)
	LCS	Pb	58	50	116	116	Y
	MS						
	Duplicate						
	PDS						
	Serial dilution						

VALIDATION FINDINGS CHECKLIST
Sample Calculation Verification

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)
Analytes were recalculated and verified using the following equation:
Concentration = (Result from raw data x Final volume x Dilution factor) / (Percent solids x Initial weight)

Sample ID	Analyte	Raw Data (~~ug/ft2~~ mg/L)	Dilution	Initial Weight/ Volume (ft2)	Final Volume (ml)	Percent solids (%)	Reported Result (ug/ft2)	Recalculated Result (ug/ft2)	Acceptable (Y/N)
1	Pb	1.263	1	1	50	100	63	63.15	Y
2	Pb	0.6452	1	1	50	100	32	32.26	Y
3	Pb	3.192	1	1	50	100	160	159.6	Y
4	Pb	3.36	1	1	50	100	170	168	Y
5	Pb	1.33	1	1	50	100	67	66.5	Y
6	Pb	1.548	1	1	50	100	77	77.4	Y
7	Pb	2.349	1	1	50	100	120	117.45	Y
8	Pb	1.934	1	1	50	100	97	96.7	Y
9	Pb	1.377	1	1	50	100	69	68.85	Y
10	Pb	3.413	1	1	50	100	170	170.65	Y
11	Pb	3.455	1	1	50	100	170	172.75	Y
12	Pb	2.364	1	1	50	100	120	118.2	Y

Quality Control
Outlier Reports

483488

LDC #: 56623B3b

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 10/10/2023

SDG #: 483488

Page: of

Laboratory: Enthalpy Analytical, Orange, CA

Reviewer: 1st

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	N	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	ND	FD= 10/11
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-P-LA	483488-001	Wipe	04/14/23
2	ARCH-C4E-PS-5.5-230414-P-G	483488-003	Wipe	04/14/23
3	ARCH-C3E-PS-5.5-230414-P-G	483488-005	Wipe	04/14/23
4	ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-P-LA	483488-007	Wipe	04/14/23
5	ARCH-C5E-DG-6 TO 6.5-230414-P-FB	483488-009	Wipe	04/14/23
6	ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-P-LA	483488-011	Wipe	04/14/23
7	ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-P-LA	483488-013	Wipe	04/14/23
8	ARCH-C5E-PS-6.5-230414-P-G	483488-015	Wipe	04/14/23
9	ARCH-C3E--PS-6.5-230414-P-G	483488-017	Wipe	04/14/23
10	ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-P-LA	483488-019	Wipe	04/14/23
11	ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-P-DUP-LA	483488-020	Wipe	04/14/23
12	ARCH-C4E-DG-7 TO 7.5-230414-P-FB	483488-022	Wipe	04/14/23
13	ARCH-C3E-EXT-7 TO 8-230414-P-WF	483488-024	Wipe	04/14/23
14	ARCH-C5E-EXT-8 TO 9-230414-P-WF	483488-027	Wipe	04/14/23
15	ARCH-C3E-DG-7.5-TO 9-UP-C3.3-VS-230414-P-LA	483488-029	Wipe	04/14/23
16				
17				

LDC #: 56623B4b

SDG #: 483488

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 6/6/2023

Page: of

Reviewer: ABN

2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	ND	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	SW	FD = 12/13
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C5E-DG-5 TO 5.5-UP-C5.3-HS-230414-L-LA	483488-002	Wipe	04/14/23
2	ARCH-C4E-PS-5.5-230414-L-G	483488-004	Wipe	04/14/23
3	ARCH-C3E-PS-5.5-230414-L-G	483488-006	Wipe	04/14/23
4	ARCH-C5E-DG-5.5 TO 6-DN-C5.1-DG-230414-L-LA	483488-008	Wipe	04/14/23
5	ARCH-C5E-DG-6 TO 6.5-230414-L-FB	483488-010	Wipe	04/14/23
6	ARCH-C3E-DG-6 TO 6.5-UP-C3.1-VS-230414-L-LA	483488-012	Wipe	04/14/23
7	ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230414-L-LA	483488-014	Wipe	04/14/23
8	ARCH-C5E--PS-6.5-230414-L-G	483488-016	Wipe	04/14/23
9	ARCH-C3E--PS-6.5-230414-L-G	483488-018	Wipe	04/14/23
10	ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230414-L-LA	483488-021	Wipe	04/14/23
11	ARCH-C4E-DG-7 TO 7.5-230414-L-FB	483488-023	Wipe	04/14/23
12	ARCH-C3E-EXT-7 TO 8-230414-L-WF	483488-025	Wipe	04/14/23
13	ARCH-C3E-EXT-7 TO 8-230414-L-DUP-WF	483488-026	Wipe	04/14/23
14	ARCH-C5E-EXT-8 TO 9-230414-L-WF	483488-028	Wipe	04/14/23
15	ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230414-L-LA	483488-030	Wipe	04/14/23
16				

Notes:

Field Duplicate RPD Report

Lab Reporting Batch ID: 483488 **Laboratory: Enthalpy Orange**

EDD Filename: Prep483488 **eQAPP Name:**

Method: 6010B
Matrix: WIPE

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	ARCH-C3E-EXT-7 TO 8-230414-L-WF (TOT)	**ARCH-C3E-EXT-7 TO 8-230414-L-DUP-WF**			
LEAD	220	210	5	100.00	No Qualifiers Applied

Project Name and Number: 20-10491 - Hangar 1 NTCRA

Quality Control
Outlier Reports

483492

LDC #: 56623C3b

SDG #: 483492

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 06/06/2023

Page: 1 of 2

Reviewer: MN

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	ND	FB= 31, 32
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	ND	FD= 6/7, 15/16
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C5E-LAT-L3-DN-C5.1-DG-230414-P-LA	483492-001	Wipe	04/14/23
2	AFRAME-C5E-LAT-L2-UP-C5.6-VS-230414-P-I	483492-003	Wipe	04/14/23
3	AFRAME-C5E-MED-L2-DN-C5.4-DG-230414-P-LA	483492-005	Wipe	04/14/23
4	AFRAME-C5E-LAT-L2-INT-1 TO 2-230414-P-FB	483492-007	Wipe	04/14/23
5	AFRAME-C4E-MED-L2-INT-1 TO 2-230414-P-FB	483492-010	Wipe	04/14/23
6	AFRAME-C3E-LAT-L2-DN-C3.4-DG-230414-P-LA	483492-012	Wipe	04/14/23
7	AFRAME-C3E-LAT-L2-DN-C3.4-DG-230414-P-DUP-LA	483492-013	Wipe	04/14/23
8	AFRAME-C4E-MED-L1-EXT-2 TO 3-230414-P-WF	483492-015	Wipe	04/14/23
9	AFRAME-C5E-LAT-L1-UP-C5E-DG-230414-P-LA	483492-017	Wipe	04/14/23
10	AFRAME-C3E-MED-L1-UP-C3.1-VS-230414-P-LA	483492-019	Wipe	04/14/23
11	AFRAME-C3E-LAT-L1-INT-2 TO 3-230414-P-FB	483492-021	Wipe	04/14/23
12	AFRAME-C3E-MED-L1-HS-3-230414-P-G	483492-023	Wipe	04/14/23
13	AFRAME-C5E-LAT-L1-UP-C5.1-VS-230414-P-I	483492-025	Wipe	04/14/23
14	AFRAME-C5E-MED-L1-HS-3-230414-P-A	483492-027	Wipe	04/14/23
15	AFRAME-C4E-LAT-L1-HS-3-230414-P-A	483492-029	Wipe	04/14/23
16	AFRAME-C4E-LAT-L1-HS-3-230414-P-DUP-A	483492-030	Wipe	04/14/23
17	AFRAME-C3E-LAT-L1-UP-C3.7-VS-230414-P-I	483492-032	Wipe	04/14/23

LDC #: 56623C3b

SDG #: 483492

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date:

Page: of

Reviewer:

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

	Client ID	Lab ID	Matrix	Date
18	AFRAME-C3E-LAT-L1-HS-3-230414-P-A	483492-034	Wipe	04/14/23
19	AFRAME-C3E-MED-L1-UP-C3.6-DG-2304174-P-SS	483492-036	Wipe	04/14/23
20	AFRAME-C5E-MED-L1-UP-C5.6-DG-230414-P-SS	483492-038	Wipe	04/14/23
21	AFRAME-C5E-MED-L1-UP-C5.7-HS-230414-P-LA	483492-040	Wipe	04/14/23
22	AFRAME-C5E-LAT-L1-EXT-1 TO 2-230414-P-WF	483492-042	Wipe	04/14/23
23	AFRAME-C4E-LAT-L1-INT-1 TO 2-230414-P-FB	483492-045	Wipe	04/14/23
24	AFRAME-C3E-LAT-L1-UP-C3.7-HS-230414-P-LA	483492-047	Wipe	04/14/23
25	AFRAME-C3E-MED-L1-EXT-1 TO 2-230414-P-WF	483492-049	Wipe	04/14/23
26	AFRAME-C5E-MED-L1-DN-C5E-DG-230414-P-SS	483492-051	Wipe	04/14/23
27	AFRAME-C5E-MED-L1-INT-0 TO 1-230414-P-FB	483492-053	Wipe	04/14/23
28	AFRAME-C3E-MED-L1-DN-C3E-DG-230414-P-SS	483492-055	Wipe	04/14/23
29	AFRAME-C3E-LAT-L1-DN-C3E-DG-230414-P-CB	483492-057	Wipe	04/14/23
30	AFRAME-C3E-MED-L1-INT-0 TO 1-230414-P-FB	483492-059	Wipe	04/14/23
31	230414-P-MEDBLANK1	483492-061	Wipe	04/14/23
32	230414-P-MEDBLANK2	483492-063	Wipe	04/14/23
33	AFRAME-C3E-MED-L2-DN-C3.7-VS-230414-P-LA	483492-066	Wipe	04/14/23
34				
35				
36				

Notes:

Field Blank Outlier Report

Lab Reporting Batch ID: 483492 **Laboratory: Enthalpy Orange**

EDD Filename: Prep483492 **eQAPP Name:**

Method: **6010B**
Matrix: **WIPE**

Field Blank Sample ID	Collected Date	Analyte	Result	Associated Samples
230414-L-MEDBLANK1(RES)	4/14/2023 9:35:00 AM	LEAD	2.2 ug/ft2	230414-L-MEDBLANK2 AFRAME-C3E-LAT-L1-DN-C3E-DG-230414-L-CB AFRAME-C3E-LAT-L1-HS-3-230414-L-A AFRAME-C3E-LAT-L1-INT-2 TO 3-230414-L-FB AFRAME-C3E-LAT-L1-UP-C3.7-HS-230414-L-LA AFRAME-C3E-LAT-L1-UP-C3.7-VS-230414-L-I AFRAME-C3E-LAT-L2-DN-C3.4-DG-230414-L-LA AFRAME-C3E-MED-L1-DN-C3E-DG-230414-L-SS AFRAME-C3E-MED-L1-EXT-1 TO 2-230414-L-WF AFRAME-C3E-MED-L1-HS-3-230414-L-G AFRAME-C3E-MED-L1-INT-0 TO 1-230414-L-FB AFRAME-C3E-MED-L1-UP-C3.1-VS-230414-L-LA AFRAME-C3E-MED-L1-UP-C3.6-DG-230414-L-SS AFRAME-C3E-MED-L2-DN-C3.7-VS-230414-L-LA AFRAME-C4E-LAT-L1-HS-3-230414-L-A AFRAME-C4E-LAT-L1-INT-1 TO 2-230414-L-FB AFRAME-C4E-MED-L1-EXT-2 TO 3-230414-L-WF AFRAME-C4E-MED-L2-INT-1 TO 2-230414-L-FB AFRAME-C5E-LAT-L1-EXT-1 TO 2-230414-L-DUP-WF AFRAME-C5E-LAT-L1-EXT-1 TO 2-230414-L-WF AFRAME-C5E-LAT-L1-UP-C5.1-VS-230414-L-I AFRAME-C5E-LAT-L1-UP-C5E-DG-230414-L-LA AFRAME-C5E-LAT-L2-INT-1 TO 2-230414-L-DUP-FB AFRAME-C5E-LAT-L2-INT-1 TO 2-230414-L-FB AFRAME-C5E-LAT-L2-UP-C5.6-VS-230414-L-I AFRAME-C5E-LAT-L3-DN-C5.1-DG-230414-L-LA AFRAME-C5E-MED-L1-DN-C5E-DG-230414-L-SS AFRAME-C5E-MED-L1-HS-3-230414-L-A AFRAME-C5E-MED-L1-INT-0 TO 1-230414-L-FB AFRAME-C5E-MED-L1-UP-C5.6-DG-230414-L-SS AFRAME-C5E-MED-L1-UP-C5.7-HS-230414-L-LA AFRAME-C5E-MED-L2-DN-C5.4-DG-230414-L-LA

Project Name and Number: 20-10491 - Hangar 1 NTCRA

LDC #: 56623C4b
SDG #: 483492
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 2A

Date: 06/06/2023
Page: 1 of 2
Reviewer: BM
2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	ND	
V.	Field Blanks	SW	FB= 31, 32
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	SW	FD= 4/5, 21/22
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C5E-LAT-L3-DN-C5.1-DG-230414-L-LA	483492-002	Wipe	04/14/23
2	AFRAME-C5E-LAT-L2-UP-C5.6-VS-230414-L-I	483492-004	Wipe	04/14/23
3	AFRAME-C5E-MED-L2-DN-C5.4-DG-230414-L-LA	483492-006	Wipe	04/14/23
4	AFRAME-C5E-LAT-L2-INT-1 TO 2-230414-L-FB	483492-008	Wipe	04/14/23
5	AFRAME-C5E-LAT-L2-INT-1 TO 2-230414-L-DUP-FB	483492-009	Wipe	04/14/23
6	AFRAME-C4E-MED-L2-INT-1 TO 2-230414-L-FB	483492-011	Wipe	04/14/23
7	AFRAME-C3E-LAT-L2-DN-C3.4-DG-230414-L-LA	483492-014	Wipe	04/14/23
8	AFRAME-C4E-MED-L1-EXT-2 TO 3-230414-L-WF	483492-016	Wipe	04/14/23
9	AFRAME-C5E-LAT-L1-UP-C5E-DG-230414-L-LA	483492-018	Wipe	04/14/23
10	AFRAME-C3E-MED-L1-UP-C3.1-VS-230414-L-LA	483492-020	Wipe	04/14/23
11	AFRAME-C3E-LAT-L1-INT-2 TO 3-230414-L-FB	483492-022	Wipe	04/14/23
12	AFRAME-C3E-MED-L1-HS-3-230414-L-G	483492-024	Wipe	04/14/23
13	AFRAME-C5E-LAT-L1-UP-C5.1-VS-230414-L-I	483492-026	Wipe	04/14/23
14	AFRAME-C5E-MED-L1-HS-3-230414-L-A	483492-028	Wipe	04/14/23
15	AFRAME-C4E-LAT-L1-HS-3-2304174-L-A	483492-031	Wipe	04/14/23
16	AFRAME-C3E-LAT-L1-UP-C3.7-VS-230414-L-I	483492-033	Wipe	04/14/23
17	AFRAME-C3E-LAT-L1-HS-3-230414-L-A	483492-035	Wipe	04/14/23

LDC #: 56623C4b

SDG #: 483492

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 06/04/2023

Page: 2 of 2

Reviewer: MBn

2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

	Client ID	Lab ID	Matrix	Date
18	AFRAME-C3E-MED-L1-UP-C3.6-DG-230414-L-SS	483492-037	Wipe	04/14/23
19	AFRAME-C5E-MED-L1-UP-C5.6-DG-230414-L-SS	483492-039	Wipe	04/14/23
20	AFRAME-C5E-MED-L1-UP-C5.7-HS-230414-L-LA	483492-041	Wipe	04/14/23
21	AFRAME-C5E-LAT-L1-EXT-1 TO 2-230414-L-WF	483492-043	Wipe	04/14/23
22	AFRAME-C5E-LAT-L1-EXT-1 TO 2-230414-L-DUP-WF	483492-044	Wipe	04/14/23
23	AFRAME-C4E-LAT-L1-INT-1 TO 2-230414-L-FB	483492-046	Wipe	04/14/23
24	AFRAME-C3E-LAT-L1-UP-C3.7-HS-230414-L-LA	483492-048	Wipe	04/14/23
25	AFRAME-C3E-MED-L1-EXT-1 TO 2-230414-L-WF	483492-050	Wipe	04/14/23
26	AFRAME-C5E-MED-L1-DN-C5E-DG-2130414-L-SS	483492-052	Wipe	04/14/23
27	AFRAME-C5E-MED-L1-INT-0 TO 1-230414-L-FB	483492-054	Wipe	04/14/23
28	AFRAME-C3E-MED-L1-DN-C3E-DG-230414-L-SS	483492-056	Wipe	04/14/23
29	AFRAME-C3E-LAT-L1-DN-C3E-DG-230414-L-CB	483492-058	Wipe	04/14/23
30	AFRAME-C3E-MED-L1-INT-0 TO 1-230414-L-FB	483492-060	Wipe	04/14/23
31	230414-L-MEDBLANK1	483492-062	Wipe	04/14/23
32	230414-L-MEDBLANK2	483492-064	Wipe	04/14/23
33	AFRAME-C3E-MED-L2-DN-C3.7-VS-230414-L-LA	483492-065	Wipe	04/14/23
34				
35				
36				

Notes:

Field Blank Contamination Report

Lab Reporting Batch ID: 483492

Laboratory: Enthalpy Orange

EDD Filename: Prep483492

Moffett_Hangar_1_NTCRA_Enthalpy_230403

Method: 6010B
Matrix: WIPE

Analyte	*Sample*	*Concentration (ug/ft2)*	*Flag*
LEAD	230414-L-MEDBLANK1	2.2	No Qualifiers Applied
	230414-L-MEDBLANK2	0.91	

Field Duplicate RPD Report

Lab Reporting Batch ID: 483492 **Laboratory: Enthalpy Orange**

EDD Filename: Prep483492 **eQAPP Name:**

Method: 6010B
Matrix: WIPE

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	AFRAME-C5E-LAT-L1-EXT-1 TO 2-230414-L-	AFRAME-C5E-LAT-L1-EXT-1 TO 2-230414-L-			
LEAD	56	69	21	100.00	No Qualifiers Applied

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	AFRAME-C5E-LAT-L2-INT-1 TO 2-230414-L-	AFRAME-C5E-LAT-L2-INT-1 TO 2-230414-L-			
LEAD	370	140	90	100.00	No Qualifiers Applied

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Rincon Consultants, Inc.
250 E. 1st Street Suite 1400
Los Angeles, CA – 90012
ATTN: Mr. Ryan Thacher
rthacher@rinconconsultants.com

August 15, 2023

SUBJECT: Hangar 1 NTCRA - Data Validation

Dear Mr. Thacher,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on January 5, 2023. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #55779_RV1:

SDG #	**Fraction**
474713, 474718, 475736, 475743, 475744	Polychlorinated Biphenyls, Lead

The data validation was performed under Stage 2A & 3 guidelines. The analysis was validated using the following documents, as applicable to each method:

- USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020)
- USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,

Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

238 pages-ADV EDD

Attachment 1

Stage 2A/3 (client select) **LDC# 55780 (Rincon Consultants, Inc., Los Angeles, CA / Hangar 1 NTCRA)** **Project# 20-10491**

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082)		Pb (6010B)																													
Matrix:	Water/Soil/Wipe			W	WP	W	WP	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	474713	01/05/23	01/26/23	0	5	-	-																												
B	474718	01/05/23	01/26/23	-	-	0	5																												
C	475736	01/05/23	01/26/23	0	29	0	29																												
D	475743	01/05/23	01/26/23	0	7	0	7																												
E	475744	01/05/23	01/26/23	0	2	0	2																												
Total	TR/PG			0	43	0	43	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	86

Shaded cells indicate Stage 3 validation (all other cells are Stage 2A validation). Sample counts do not include MS, MSD, and DUP's. V:\LOGIN\Rincon\Moffett Field, Hangar 1 NTCRA\55780ST-Wipe.wpd

LDC Report# 55780_RV1

Automated Data Review Data Validation Report
Hangar 1 NTCRA

Sample Delivery Groups

474713
474718
475736
475743
475744

August 14, 2023

Introduction

This Data Validation Report (DVR) presents Stage 2A and Stage 3 data validation results for samples collected during the November 2022 sampling period. Data validation was performed in accordance with a modified outline of the US Environmental Protection Agency (EPA) National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020) and USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Polychlorinated Biphenyls (PCBs) by EPA SW 846 Method 8082
Lead by EPA SW 846 Method 6010B

Sample identifications, methods of analyses performed, and review levels on each sample are presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Automated Data Review outliers and manual data validation worksheets are presented in Enclosure I.

All sample results were subjected to Stage 2A data validation, which comprises an evaluation of quality control (QC) summary results. Selected samples were subjected to Stage 3 data validation as indicated on the Sample Summary Report. Stage 3 data validation is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

Initial Calibration and Initial Calibration Verification

8082
The percent relative standard deviations (%RSD) were less than or equal to 20.0% for all analytes.

Average relative response factors (RRF) for all analytes were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all analytes.

Initial calibration data were not reviewed for Stage 2A validation.

6010B
An initial calibration was performed as required by the method.

The initial calibration verification (ICV) standards were within QC limits.

Initial calibration data were not reviewed for Stage 2A validation.

Continuing Calibration

8082
Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all analytes.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

Continuing calibration data were not reviewed for Stage 2A validation.

6010B
Continuing calibrations were performed as required by the method.

The continuing calibration verification (CCV) standards were within QC limits.

Continuing calibration data were not reviewed for Stage 2A validation.

ICP Interference Check Sample Analysis

6010B
The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

Although lead was found in the ICSA standard, no qualification was necessary since the interferent concentrations in the samples were less than ninety percent of the spiked interference concentrations in the ICSA.

Interference check sample (ICS) analysis data were not reviewed for Stage 2A validation.

Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminants were detected in the laboratory blanks.

Field Blanks

8082
Two media blanks were collected and analyzed. No contaminants were found.

6010B
Two media blanks were collected and analyzed. Two media blanks had detections for lead. The associated sample results were not detected or were significantly greater than the concentrations found in the media blank, therefore no data were qualified. The details are presented in Enclosure I.

Surrogate Spikes

8082
Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

Internal Standards

8082
All internal standard areas and retention times were within QC limits.

Internal standard data were not reviewed for Stage 2A validation.

Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for these methods, and therefore matrix spike and matrix spike duplicate analyses were not performed.

Duplicate Sample Analysis

6010B
The laboratory has indicated that there were no laboratory duplicate (DUP) analyses specified for this method, and therefore laboratory duplicate analyses were not performed.

Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) were analyzed as required by the methods. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Field Duplicates

8082
Four field duplicate pairs were collected and analyzed. No results were detected in the field duplicates. The field duplicates are identified in Attachment 1.

6010B
Four field duplicate pairs were collected and analyzed. Four field duplicate pairs had detections for lead. All RPDs were within QC limits. The field duplicate result comparisons are presented in Enclosure I.

Target Analyte Quantitation

The laboratory reporting limits were evaluated. All laboratory reporting limits met the specified requirements.

Overall Assessment of Data

The analyses were conducted within all specifications of the methods. No results were rejected in these SDGs.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Summary Report by Analysis Method

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (2/7/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 474713						
Method: 8082						
ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-P-LA	474713-005	WIPE	N	3546	12/9/2022	S3VEM
ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-P-LA	474713-002	WIPE	N	3546	12/9/2022	S3VEM
ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-P-LA	474713-003	WIPE	N	3546	12/9/2022	S3VEM
ARCH-C5W-EXT-1 TO 2-221209-P-WF	474713-001	WIPE	N	3546	12/9/2022	S3VEM
ARCH-C5W-INT-4.5 TO 5.5-221209-P-WF	474713-004	WIPE	N	3546	12/9/2022	S3VEM

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (2/7/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 474718						
Method: 6010B						
ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-L-LA	474718-005	WIPE	N	3010A	12/9/2022	S3VEM
ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-L-LA	474718-002	WIPE	N	3010A	12/9/2022	S3VEM
ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-6-LA	474718-003	WIPE	N	3010A	12/9/2022	S3VEM
ARCH-C5W-EXT-1 TO 2-221209-L-WF	474718-001	WIPE	N	3010A	12/9/2022	S3VEM
ARCH-C5W-INT-4.5 TO 5.5-221209-L-WF	474718-004	WIPE	N	3010A	12/9/2022	S3VEM

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 475736						
Method: 6010B						
221221-L-MEDBLANK1	475736-056	WIPE	FB	3050B	12/21/2022 7:35:00 AM	S2AVE
221221-L-MEDBLANK2	475736-058	WIPE	FB	3050B	12/21/2022 12:55:00 PM	S2AVE
ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-L-LA	475736-010	WIPE	N	3050B	12/21/2022 9:20:00 AM	S2AVE
ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-L-LA	475736-021	WIPE	N	3050B	12/21/2022 12:40:00 PM	S2AVE
ARCH-C3W-DG-5.5 TO 6-UP-C3.3-HS-221221-L-LA	475736-035	WIPE	N	3050B	12/21/2022 8:55:00 AM	S2AVE
ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-L-LA	475736-041	WIPE	N	3050B	12/21/2022 9:55:00 AM	S2AVE
ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-L-LA	475736-050	WIPE	N	3050B	12/21/2022 12:20:00 PM	S2AVE
ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-L-LA	475736-052	WIPE	N	3050B	12/21/2022 12:45:00 PM	S2AVE
ARCH-C3W-EXT-6 TO 7-221221-L-WF	475736-043	WIPE	N	3050B	12/21/2022 9:38:00 AM	S2AVE
ARCH-C3W-INT-2.5 TO 3.5-221221-L-WF	475736-004	WIPE	N	3050B	12/21/2022 9:05:00 AM	S2AVE
ARCH-C3W-INT-4.5 TO 5.5-221221-L-WF	475736-025	WIPE	N	3050B	12/21/2022 12:35:00 PM	S2AVE
ARCH-C3W-PS-5.5-221221-L-G	475736-029	WIPE	N	3050B	12/21/2022 8:05:00 AM	S2AVE
ARCH-C3W-PS-6.5-221221-L-G	475736-048	WIPE	N	3050B	12/21/2022 10:35:00 AM	S2AVE
ARCH-C4W-DG-3 TO 3.5-221221-L-DUP-FB	475736-007	WIPE	FD	3050B	12/21/2022 8:55:00 AM	S2AVE
ARCH-C4W-DG-3 TO 3.5-221221-L-FB	475736-006	WIPE	N	3050B	12/21/2022 8:55:00 AM	S2AVE
ARCH-C4W-EXT-4 TO 5-221221-L-WF	475736-015	WIPE	N	3050B	12/21/2022 12:00:00 PM	S2AVE
ARCH-C4W-INT-2.5 TO 3.5-221221-L-WF	475736-002	WIPE	N	3050B	12/21/2022 8:30:00 AM	S2AVE
ARCH-C4W-PS-5.5-221221-L-G	475736-027	WIPE	N	3050B	12/21/2022 7:45:00 AM	S2AVE
ARCH-C5W-DG-4 TO 4.5-221221-L-DUP-FB	475736-013	WIPE	FD	3050B	12/21/2022 11:50:00 AM	S2AVE
ARCH-C5W-DG-4 TO 4.5-221221-L-FB	475736-012	WIPE	N	3050B	12/21/2022 11:50:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Method: 6010B						
ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-L-LA	475736-019	WIPE	N	3050B	12/21/2022 12:20:00 PM	S2AVE
ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-L-LA	475736-031	WIPE	N	3050B	12/21/2022 9:15:00 AM	S2AVE
ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-L-LA	475736-023	WIPE	N	3050B	12/21/2022 12:50:00 PM	S2AVE
ARCH-C5W-DG-5.5 TO 6-221221-L-FB	475736-037	WIPE	N	3050B	12/21/2022 8:40:00 AM	S2AVE
ARCH-C5W-DG-6 TO 6.5-221221-L-FB	475736-039	WIPE	N	3050B	12/21/2022 9:25:00 AM	S2AVE
ARCH-C5W-EXT-8 TO 9-221221-L-WF	475736-054	WIPE	N	3050B	12/21/2022 1:00:00 PM	S2AVE
ARCH-C5W-PS-4.5-221221-L-G	475736-017	WIPE	N	3050B	12/21/2022 12:10:00 PM	S2AVE
ARCH-C5W-PS-6.5-221221-L-G	475736-046	WIPE	N	3050B	12/21/2022 10:15:00 AM	S2AVE
ARCH-C5W-PS-6-221221-L-G	475736-033	WIPE	N	3050B	12/21/2022 8:25:00 AM	S2AVE
Method: 8082						
221221-P-MEDBLANK1	475736-055	WIPE	FB	3546	12/21/2022 7:35:00 AM	S2AVE
221221-P-MEDBLANK2	475736-057	WIPE	FB	3546	12/21/2022 12:55:00 PM	S2AVE
ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-P-DUP-LA	475736-009	WIPE	FD	3546	12/21/2022 9:20:00 AM	S2AVE
ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-P-LA	475736-008	WIPE	N	3546	12/21/2022 9:20:00 AM	S2AVE
ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-P-LA	475736-020	WIPE	N	3546	12/21/2022 12:40:00 PM	S2AVE
ARCH-C3W-DG-5.5 TO 6-UP-C3.3-HS-221221-P-LA	475736-034	WIPE	N	3546	12/21/2022 8:55:00 AM	S2AVE
ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-P-LA	475736-040	WIPE	N	3546	12/21/2022 9:55:00 AM	S2AVE
ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-P-LA	475736-049	WIPE	N	3546	12/21/2022 12:20:00 PM	S2AVE
ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-P-LA	475736-051	WIPE	N	3546	12/21/2022 12:45:00 PM	S2AVE
ARCH-C3W-EXT-6 TO 7-221221-P-WF	475736-042	WIPE	N	3546	12/21/2022 9:38:00 AM	S2AVE
ARCH-C3W-INT-2.5 TO 3.5-221221-P-WF	475736-003	WIPE	N	3546	12/21/2022 9:05:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Method: 8082						
ARCH-C3W-INT-4.5 TO 5.5-221221-P-WF	475736-024	WIPE	N	3546	12/21/2022 12:35:00 PM	S2AVE
ARCH-C3W-PS-5.5-221221-P-G	475736-028	WIPE	N	3546	12/21/2022 8:05:00 AM	S2AVE
ARCH-C3W-PS-6.5-221221-P-G	475736-047	WIPE	N	3546	12/21/2022 10:35:00 AM	S2AVE
ARCH-C4W-DG-3 TO 3.5-221221-P-FB	475736-005	WIPE	N	3546	12/21/2022 8:55:00 AM	S2AVE
ARCH-C4W-EXT-4 TO 5-221221-P-WF	475736-014	WIPE	N	3546	12/21/2022 12:00:00 PM	S2AVE
ARCH-C4W-INT-2.5 TO 3.5-221221-P-WF	475736-001	WIPE	N	3546	12/21/2022 8:30:00 AM	S2AVE
ARCH-C4W-PS-5.5-221221-P-G	475736-026	WIPE	N	3546	12/21/2022 7:45:00 AM	S2AVE
ARCH-C5W-DG-4 TO 4.5-221221-P-FB	475736-011	WIPE	N	3546	12/21/2022 11:50:00 AM	S2AVE
ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-P-LA	475736-018	WIPE	N	3546	12/21/2022 12:20:00 PM	S2AVE
ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-P-LA	475736-030	WIPE	N	3546	12/21/2022 9:15:00 AM	S2AVE
ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-P-LA	475736-022	WIPE	N	3546	12/21/2022 12:50:00 PM	S2AVE
ARCH-C5W-DG-5.5 TO 6-221221-P-FB	475736-036	WIPE	N	3546	12/21/2022 8:40:00 AM	S2AVE
ARCH-C5W-DG-6 TO 6.5-221221-P-FB	475736-038	WIPE	N	3546	12/21/2022 9:25:00 AM	S2AVE
ARCH-C5W-EXT-8 TO 9-221221-P-WF	475736-053	WIPE	N	3546	12/21/2022 1:00:00 PM	S2AVE
ARCH-C5W-PS-4.5-221221-P-G	475736-016	WIPE	N	3546	12/21/2022 12:10:00 PM	S2AVE
ARCH-C5W-PS-6.5-221221-P-DUP-G	475736-045	WIPE	FD	3546	12/21/2022 10:15:00 AM	S2AVE
ARCH-C5W-PS-6.5-221221-P-G	475736-044	WIPE	N	3546	12/21/2022 10:15:00 AM	S2AVE
ARCH-C5W-PS-6-221221-P-G	475736-032	WIPE	N	3546	12/21/2022 8:25:00 AM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (2/7/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*		*Collection Date*	*Validation Code*
Lab Reporting Batch: 475743							
Method: 6010B							
ARCH-C3W-DG-2 TO 2.5-221221-L-DUP-FB	475743-006	WIPE	FD	3050B		12/21/2022 7:35:00 AM	S3VEM
ARCH-C3W-DG-2 TO 2.5-221221-L-FB	475743-005	WIPE	N	3050B		12/21/2022 7:35:00 AM	S3VEM
ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-L-LA	475743-012	WIPE	N	3050B		12/21/2022 7:50:00 AM	S3VEM
ARCH-C4W-DG-2 TO 2.5-221221-L-DUP-FB	475743-009	WIPE	FD	3050B		12/21/2022 8:00:00 AM	S3VEM
ARCH-C4W-DG-2 TO 2.5-221221-L-FB	475743-008	WIPE	N	3050B		12/21/2022 8:00:00 AM	S3VEM
ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-L-LA	475743-003	WIPE	N	3050B		12/21/2022 8:10:00 AM	S3VEM
ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-L-LA	475743-014	WIPE	N	3050B		12/21/2022 8:40:00 AM	S3VEM
Method: 8082							
ARCH-C3W-DG-2 TO 2.5-221221-P-FB	475743-004	WIPE	N		3546	12/21/2022 7:35:00 AM	S3VEM
ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-DUP-LA	475743-011	WIPE	FD		3546	12/21/2022 7:50:00 AM	S3VEM
ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-LA	475743-010	WIPE	N		3546	12/21/2022 7:50:00 AM	S3VEM
ARCH-C4W-DG-2 TO 2.5-221221-P-FB	475743-007	WIPE	N		3546	12/21/2022 8:00:00 AM	S3VEM
ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-DUP-LA	475743-002	WIPE	FD		3546	12/21/2022 8:10:00 AM	S3VEM
ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-LA	475743-001	WIPE	N		3546	12/21/2022 8:10:00 AM	S3VEM
ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-P-LA	475743-013	WIPE	N		3546	12/21/2022 8:40:00 AM	S3VEM

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (2/7/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 475744						
Method: 6010B						
AFRAME-C5W-MED-L3-UP-C5.2-VS-221221-L-LA	475744-002	WIPE	N	3050B	12/21/2022 1:25:00 PM	S3VEM
AFRAME-C5W-MED-L3-UP-C5.6-HM-221221-L-CB	475744-004	WIPE	N	3050B	12/21/2022 1:40:00 PM	S3VEM
Method: 8082						
AFRAME-C5W-MED-L3-UP-C5.2-VS-221221-P-LA	475744-001	WIPE	N	3546	12/21/2022 1:25:00 PM	S3VEM
AFRAME-C5W-MED-L3-UP-C5.6-HM-221221-P-CB	475744-003	WIPE	N	3546	12/21/2022 1:40:00 PM	S3VEM

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (2/7/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*

Validation Label Legend

Label Code	*Label Decription*	*EPA Level*
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with calibration
S2BVM	Stage_2B_Validation_Manual	Level 3 with calibration
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with calibration
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: 474713

Laboratory: Enthalpy Orange

EDD Filename: Prep474713

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 474718

Laboratory: Enthalpy Orange

EDD Filename: Prep474718

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 475736

Laboratory: Enthalpy Orange

EDD Filename: Prep475736

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 475743

Laboratory: Enthalpy Orange

EDD Filename: Prep475743

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 475744

Laboratory: Enthalpy Orange

EDD Filename: Prep475744

eQAPP Name:

No Data Review Qualifiers Applied.

Enclosure I

Validation Outlier Reports

Quality Control
Outlier Reports

474713

(No Outliers)

LDC #: 55780A3b
SDG #: 474713
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 3

Date: 1/24/23
Page: 1 of 1
Reviewer: PD
2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A A	
II.	Initial calibration/ICV	A A	%D/PSD ≤ 20 ICV ≤ 20
III.	Continuing calibration	A	CCV ≤ 20
IV.	Laboratory Blanks	A	
V.	Field blanks	A	
VI.	Surrogate spikes 1/5	A A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS ID
IX.	Field duplicates	N	
X.	Target analyte quantitation	A	
XI.	Target analyte identification	A	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C5W-EXT-1 TO 2-221209-P-WF	474713-001	Wipe	12/09/22
2	ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-P-LA	474713-002	Wipe	12/09/22
3	ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-P-LA	474713-003	Wipe	12/09/22
4	ARCH-C5W-INT-4.5 TO 5.5-221209-P-WF	474713-004	Wipe	12/09/22
5	ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-P-LA	474713-005	Wipe	12/09/22
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

	303B2						

LDC #: 55780A 3b

VALIDATION FINDINGS CHECKLIST

Method: ✓ GC ___ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				

Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
X. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 55780A3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (500 std)	Recalculated CF (500 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL	10/24/22	Aroclor 1260-1 chA	0.0578	0.0578	0.0676	0.0676	18	18
			chB	0.0510	0.0510	0.0595	0.0595	14	14
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 55780A3b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	12/14/22 2246	Aroclor 1260 chA	500.0	410.5	410.5	18	18
			chB	↓	453.4	453.4	9	9
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 55780A3b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
			35.8648	Reported	Recalculated	
TCMX	ch B	FT 40 50	~~28.7308~~ FT	72	72	0
DCB	↓	↓	~~26.7833~~ FT	74	74	J
			37.2153			

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C`	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 55780A3b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC ___HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration; LCS = Laboratory Control Sample; SA = Spike added; LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 303182 LCS ID

Compound	Spike Added (ug/100cm²)		Spike Sample Concentration (ug/100cm²)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	5.0	5.0	3.780	4.468	76	76	89	89	17	17

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 55780A3b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. 303182-LCS Compound Name Aroclor 1260

Concentration = $\frac{378 \quad (10)}{(1.00)(1000)}$ =

= 3.78 (ug/100 cm²)

1900

#	Sample ID	Compound	Reported Concentrations (ug/100 cm²)	Recalculated Results Concentrations (ug/100) cm²	Qualifications
	LCS	Aroclor 1260	3.780	3.78	
	1260-1 = $\frac{6047951.77 \quad (20.0)}{57157520 \quad (0.0595)}$		= 355.5	1260-1 = 355.5	
				-2 = 357.8	
				-3 = 340.3	
				-4 = 348.3	
				-5 = 488.1	
				378	

Comments: _____

Quality Control
Outlier Reports

474718

LDC #: 55780B4b
SDG #: 474718
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 3

Date: 1/6/23
Page: 1 of 1
Reviewer: ATL
2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	SW	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	C,S
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C5W-EXT-1 TO 2-221209-L-WF	474718-001	Wipe	12/09/22
2	ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-221209-L-LA	474718-002	Wipe	12/09/22
3	ARCH-C5W-DG-2.5 TO 3-UP-C5.6-DG-221209-L-LA	474718-003	Wipe	12/09/22
4	ARCH-C5W-INT-4.5 TO 5.5-221209-L-WF	474718-004	Wipe	12/09/22
5	ARCH-C2W-DG-4 TO 4.5-UP-C2.7-DG-221209-L-LA	474718-005	Wipe	12/09/22
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
Were all water samples preserved to a pH of <2.			✓	
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			✓	
Were %RSDs of isoptoes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily?	✓			
Were the proper standards used?	✓			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low level standard checks within 70-130%?			✓	not reported / provided
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?		✓		
Was there contamination in the initial and continuing calibration blanks?		✓		
V. Interference Check Sample				
Were the interference check samples performed daily?	✓			
Were the AB solution recoveries within 80-120%?	✓			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			✓	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			✓	
VII. Laboratory Control Samples				
SDG?	✓			

Were the LCS recoveries and RPDs (if applicable) within QC limits?	✓			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			✓	
If the recoveries were outside the limits, was a reanalysis performed?			✓	
IX. Serial Dilution				
Were all percent differences <10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?			✓	
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XIII. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	

LDC #: 55780B4b

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were ICP interference check samples performed as required?

(Y) N N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding	Associated Samples	Qualifications
	12/12/22	ICSA (13:35)	Pb	-0.005611 (≤ 0.003333)	all	no qual (sample interferents < ICSA)

Comments: _____

LDC #: 55780B4b

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: ATV

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (~~ug/L~~ mg/L)	True (~~ug/L~~ mg/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
ICV	ICP (Initial calibration)	Pb	0.9751	1.000	98	98	Y
	ICP/MS (Initial calibration)						
	CVAA (Initial calibration)						
CCV	ICP (Continuing calibration) 12/12 @ 14:54	Pb	0.976955	1.000	98	98	Y
	ICP/MS (Continuing calibration)						
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis			± 0.1 AMU	NA	
	%RSD			≤ 5% RSD		

Comments:

LDC #: 55780B46

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (µg/Ht2 (units)	True / D / SDR (µg/Ht2 (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Pb	1.0170 mg/L	1.000 mg/L	102	102	Y
LCS	Laboratory control sample	Pb	97.89 µg/Ht2	100.00 µg/Ht2	98	98	Y
	Matrix spike		(SSR-SR)				
	Duplicate						
	Post digestion spike						
	ICP serial dilution						

Comments: _____

LDC #: 55780B4b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for Pb were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation: #3

$0.212246 \times (50/1.02) = 10.404$

#	Sample ID	Analyte	Reported Concentration (µg/l)	Calculated Concentration (µg/l)	Acceptable (Y/N)
	1	Pb	11	10.575	Y
	2	Pb	4.5	4.534	Y
	3	Pb	10	10.404	Y
	4	Pb	6.8	6.792	Y
	5	Pb	9.5	9.504	Y

Note:

Quality Control
Outlier Reports

475736

LDC #: 55780C3b

SDG #: 475736

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 2/7/2023

Page: ___ of ___

Reviewer: [illegible]

2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	AD	
V.	Field blanks	ND	FB= 28, 29
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	ND	FD= 5/4, 23/22
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C4W-INT-2.5 TO 3.5-221221-P-WF	475736-001	Wipe	12/21/22
2	ARCH-C3W-INT-2.58 TO 3.5-221221-P-WF	475736-003	Wipe	12/21/22
3	ARCH-C4W-DG-3 TO 3.5-221221-P-FB	475736-005	Wipe	12/21/22
4	ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-P-LA	475736-008	Wipe	12/21/22
5	ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-P-DUP-LA	475736-009	Wipe	12/21/22
6	ARCH-C5W-DG-4 TO 221221-P-FB	475736-011	Wipe	12/21/22
7	ARCH-C4W-EXT-4 TO 5-221221-P-WF	475736-014	Wipe	12/21/22
8	ARCH-C5W-PS-4.5-221221-P-G	475736-016	Wipe	12/21/22
9	ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-P-LA	475736-18	Wipe	12/21/22
10	ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-P-LA	475736-20	Wipe	12/21/22
11	ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-P-LA	475736-22	Wipe	12/21/22
12	ARCH-C3W-INT-4.5 TO 5.5-221221-P-WF	475736-24	Wipe	12/21/22
13	ARCH-C4W-PS-5.5-221221-P-G	475736-26	Wipe	12/21/22
14	ARCH-C3W-PS-5.5-221221-P-G	475736-28	Wipe	12/21/22
15	ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-P-LA	475736-30	Wipe	12/21/22
16	ARCH-C5W-PS-6-221221-P-G	475736-32	Wipe	12/21/22
17	ARCH-C3W-DG-5.5 TO 6-UP-C3.3-HS-221221-P-LA	475736-34	Wipe	12/21/22

LDC #: 55780C3b

SDG #: 475736

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date:

Page: of

Reviewer:

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

	Client ID	Lab ID	Matrix	Date
18	ARCH-C5W-DG-5.5-TO 6-221221-P-FB	475736-36	Wipe	12/21/22
19	ARCH-C5W-DG-6 TO 6.5-221221-P-FB	475736-38	Wipe	12/21/22
20	ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-P-LA	475736-40	Wipe	12/21/22
21	ARCH-C3W-EXT-6 TO 7-221221-P-WF	475736-42	Wipe	12/21/22
22	ARCH-C5W-PS-6.5-221221-P-G	475736-44	Wipe	12/21/22
23	ARCH-C5W-PS-6.5-221221-P-DUP-G	475736-45	Wipe	12/21/22
24	ARCH-C3W-PS-6.5-221221-P-G	475736-47	Wipe	12/21/22
25	ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-P-LA	475736-49	Wipe	12/21/22
26	ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-P-LA	475736-51	Wipe	12/21/22
27	ARCH-C5W-EXT-8 TO 9-221221-P-WF	475736-53	Wipe	12/21/22
28	ARCH-P-MEDBLANK1	475736-55	Wipe	12/21/22
29	ARCH-P-MEDBLANK2	475736-57	Wipe	12/21/22
30				
31				
32				

Notes:

LDC #: 55780C4b

SDG #: 475736

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 2/7/2023

Page: ___ of ___

Reviewer: BM

2nd Reviewer: _____

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	ND	
V.	Field Blanks	SW	FB=28, 29
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	SW	FD= 4/3, 7/6,
XI.	Target Analyte Quantitation	N	
XII	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C4W-INT-2.5 TO 3.5-221221-L-WF	475736-002	Wipe	12/21/22
2	ARCH-C3W-INT-2.5 TO 3.5-2212221-L-WF	475736-004	Wipe	12/21/22
3	ARCH-C4W-DG-3 TO 3.5-221221-L-FB	475736-006	Wipe	12/21/22
4	ARCH-C4W-DG-3-TO 3.5-221221-L-DUP-FB	475736-007	Wipe	12/21/22
5	ARCH-C3W-DG-4 TO 4.5-DN-C3.4-VS-221221-L-LA	475736-010	Wipe	12/21/22
6	ARCH-C5W-DG-4 TO 4.5-221221-L-FB	475736-012	Wipe	12/21/22
7	ARCH-C5W-DG-4 TO 4.5-221221-L-DUP-FB	475736-013	Wipe	12/21/22
8	ARCH-C4W-EXT-4 TO 5-221221-L-WF	475736-015	Wipe	12/21/22
9	ARCH-C5W-PS-4.5-221221-L-G	475736-017	Wipe	12/21/22
10	ARCH-C5W-DG-4.5 TO 5-DN-C5.1-DG-221221-L-LA	475736-19	Wipe	12/21/22
11	ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-221221-L-LA	475736-21	Wipe	12/21/22
12	ARCH-C5W-DG-5 TO 5.5-UP-C5.3-HS-221221-L-LA	475736-23	Wipe	12/21/22
13	ARCH-C3W-INT-4.5 TO 5.5-221221-L-WF	475736-25	Wipe	12/21/22
14	ARCH-C4W-PS-5.5-221221-L-G	475736-27	Wipe	12/21/22
15	ARCH-C3W-PS-5.5-221221-L-G	475736-29	Wipe	12/21/22
16	ARCH-C5W-DG-5 TO 5.5-DN-C5.3-DG-221221-L-LA	475736-31	Wipe	12/21/22
17	ARCH-C5W-PS-6-221221-L-G	475736-33	Wipe	12/21/22

LDC #: 55780C4b

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date:_____

SDG #: 475736

Page: of

Laboratory: Enthalpy Analytical, Orange, CA

Reviewer:_____

2nd Reviewer:_____

METHOD: Lead (EPA SW-846 Method 6010B)

	Client ID	Lab ID	Matrix	Date
18	ARCH-C3W-DG5.5 TO 6-UP-C3.3-HS-221221-L-LA	475736-35	Wipe	12/21/22
19	ARCH-C5W-DG-5.5 TO 6-221221-L-FB	475736-37	Wipe	12/21/22
20	ARCH-C5W-DG-6 TO 6.5-221221-L-FB	475736-39	Wipe	12/21/22
21	ARCH-C3W-DG-6 TO 6.5-UP-C3.1-HS-221221-L-LA	475736-41	Wipe	12/21/22
22	ARCH-C3W-EXT-6 TO 7-221221-L-WF	475736-43	Wipe	12/21/22
23	ARCH-C5W-PS-6.5-221221-L-G	475736-46	Wipe	12/21/22
24	ARCH-C3W-PS-6.5-221221-L-G	475736-48	Wipe	12/21/22
25	ARCH-C3W-DG-7 TO 7.5-UP-C3.4-DG-221221-L-LA	475736-50	Wipe	12/21/22
26	ARCH-C3W-DG-7 TO 7.5-UP-C3.5-DG-221221-L-LA	475736-52	Wipe	12/21/22
27	ARCH-C5W-EXT-8 TO 9-221221-L-WF	475736-54	Wipe	12/21/22
28	ARCH-L-MEDBLANK1	475736-56	Wipe	12/21/22
29	ARCH-L-MEDBLANK2	475736-58	Wipe	12/21/22
30				
31				
32				

Notes:_____

Field Blank Contamination Report

Lab Reporting Batch ID: 475736

EDD Filename: Prep475736

Laboratory: Enthalpy Orange

Moffett_Hangar_1_NTCRA_Enthalpy_220609

Method: 6010B
Matrix: WIPE

Analyte	*Sample*	*Concentration (ug/ft2)*	*Flag*
LEAD	221222-L-MEDBLANK1	5.1	No Qualifiers Applied

Field Blank Contamination Report

Lab Reporting Batch ID: 475736

Laboratory: Enthalpy Orange

EDD Filename: Prep475736

Moffett_Hangar_1_NTCRA_Enthalpy_220609

Method: 6010B
Matrix: WIPE

Analyte	*Sample*	*Concentration (ug/ft2)*	*Flag*
LEAD	221222-L-MEDBLANK2	2.8	No Qualifiers Applied

Field Duplicate RPD Report

Lab Reporting Batch ID: 475736 **Laboratory: Enthalpy Orange**

EDD Filename: Prep475736 **eQAPP Name:**

Method: 6010B
Matrix: WIPE

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	ARCH-C4W-DG-3 TO 3.5-221221-L-FB (TOT)	**ARCH-C4W-DG-3 TO 3.5-221221-L-DUP-FB**			
LEAD	27	38	34	100.00	No Qualifiers Applied

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	ARCH-C5W-DG-4 TO 4.5-221221-L-FB (TOT)	**ARCH-C5W-DG-4 TO 4.5-221221-L-DUP-FB**			
LEAD	59	77	26	100.00	No Qualifiers Applied

Quality Control
Outlier Reports

475743

LDC #: 55780D3b
SDG #: 475743
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 3

Date: 1/24/23
Page: 1 of 1
Reviewer: B
2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	A / A	%RSD ≤ 20 ICV ≤ 20
III.	Continuing calibration	A	CCV ≤ 20
IV.	Laboratory Blanks	A	
V.	Field blanks	ND	FB = 3,4
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	LCS
VIII.	Laboratory control samples	A	LCS/D
IX.	Field duplicates	ND	D = 5,6
X.	Target analyte quantitation	A	
XI.	Target analyte identification	A	
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-LA	475743-001	Wipe	12/21/22
2	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS-221221-P-DUP-LA	475743-002	Wipe	12/21/22
3	ARCH-C3W-DG-2 TO 2.5-221221-P-FB	475743-004	Wipe	12/21/22
4	ARCH-C4W-DG-2 TO 2.5-221221-P-FB	475743-007	Wipe	12/21/22
5	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-LA	475743-010	Wipe	12/21/22
6	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-P-DUP-LA	475743-011	Wipe	12/21/22
7	ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-P-LA	475743-013	Wipe	12/21/22
8				
9				
10				
11				
12				
13				

Notes:

	303863						

LDC #: 55780 D3b

VALIDATION FINDINGS CHECKLIST

Method: ✓ GC ___ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?		✓		
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?	✓			
V. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target compounds detected in the field blanks?		✓		
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				

Were field duplicate pairs identified in this SDG?	✓			
Were target compounds detected in the field duplicates?		✓		
X. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 55780 D3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (SDV std)	Recalculated CF (SDV std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL	10/24/22	Aroclor 1260-1 chA	0.0578	0.0578	0.0676	0.0676	18	18
			chB	0.0510	0.0510	0.0595	0.0595	14	14
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 55780D3b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	12/27/22 1024	Aroclor 1260 chA	500.0	517.4	517.4	3	3
			chB	500.0	500.4	500.4	0	0
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 55780D36

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	ch B	50	35.8706	72	72	0
DCB	↓	↓	37.0986	74	74	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 55780D3b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ___ GC ___HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample
SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 3083363 LCS LCSD

Compound	Spike Added (ug/100cm²)		Spike Sample Concentration (ug/100cm²)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	5.0	5.0	4.99	4.895	84	84	98	98	15	15

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 55X0D3b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. 303863-LCS Compound Name Aroclor 1260

Concentration = $\frac{419.92 \ (10.0)}{(1.0)(100)}$ =

= 4.1992

#	Sample ID	Compound	Reported Concentrations (ug/100 cm²)	Recalculated Results Concentrations (ug/100 cm²)	Qualifications
	LCS	Aroclor 1260	4.199	4.1992	
	Aroclor 1260-	1 = 6713395.36 / 52649932.98 (20.0)(0.0595)		1260-1 = 428.6	
				2 = 422.5	
				3 = 420.7	
				4 = 424.1	
				5 = 403.4	
				419.92	

Comments: _____

LDC #: 55780D4b
SDG #: 475743
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 3

Date: 2/6/23
Page: 1 of 1
Reviewer: ATV
2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	SW	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	C.S
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	SW	(2,3), (4,5)
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C5W-DG-1.5 TO 2-UP-C5.7-VS221221-L-LA	475743-003	Wipe	12/21/22
2	ARCH-C3W-DG-2 TO 2.5-221221-L-FB	475743-005	Wipe	12/21/22
3	ARCH-C3W-DG-2 TO 2.5-221221-L-DUP-FB	475743-006	Wipe	12/21/22
4	ARCH-C4W-DG-2 TO 2.5-221221-L-FB	475743-008	Wipe	12/21/22
5	ARCH-C4W-DG-2 TO 2.5-221221-L-DUP-FB	475743-009	Wipe	12/21/22
6	ARCH-C3W-DG-2 TO 2.5-UP-C3.6-HS-221221-L-LA	475743-012	Wipe	12/21/22
7	ARCH-C5W-DG-3 TO 3.5-UP-C5.6-HS-221221-L-LA	475743-014	Wipe	12/21/22
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
Were all water samples preserved to a pH of <2.			✓	
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			✓	
Were %RSDs of isoptoes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily?	✓			
Were the proper standards used?	✓			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low level standard checks within 70-130%?			✓	
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?		✓		
Was there contamination in the initial and continuing calibration blanks?		✓		
V. Interference Check Sample				
Were the interference check samples performed daily?	✓			
Were the AB solution recoveries within 80-120%?	✓			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			✓	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			✓	
VII. Laboratory Control Samples				
SDG?	✓			

Were the LCS recoveries and RPDs (if applicable) within QC limits?	✓			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			✓	
If the recoveries were outside the limits, was a reanalysis performed?			✓	
IX. Serial Dilution				
Were all percent differences <10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?			✓	
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?	✓			
Were target analytes detected in the field duplicates?		✓		
XIII. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	

LDC #: 55780D4b

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were ICP interference check samples performed as required?

(Y) N N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding	Associated Samples	Qualifications
	12/23/22	ICSA (09:34)	Pb	-0.01871 (≤ 0.003333)	all	no qual (sample interferents < ICSA)

Comments: _____

Field Duplicate RPD Report

Lab Reporting Batch ID: 475743 **Laboratory: Enthalpy Orange**

EDD Filename: Prep475743 **eQAPP Name:**

Method: 6010B
Matrix: WIPE

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	ARCH-C3W-DG-2 TO 2.5-221221-L-FB (TOT)	**ARCH-C3W-DG-2 TO 2.5-221221-L-DUP-FB**			
LEAD	51	55	8	100.00	No Qualifiers Applied

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	ARCH-C4W-DG-2 TO 2.5-221221-L-FB (TOT)	**ARCH-C4W-DG-2 TO 2.5-221221-L-DUP-FB**			
LEAD	45	33	31	100.00	No Qualifiers Applied

LDC#: 55780D4b

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: Metals (EPA Method 6010/6020/7000/200.7/200.8)

Analyte	Concentration (ug/ft2)		RPD (≤ 50%)	
	2	3		
Lead	51	55	8	

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Analyte	Concentration (ug/ft2)		RPD (≤ 50%)	
	4	5		
Lead	45	33	31	

LDC #: 55780D46

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: ATV

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$$\%R = \frac{\text{Found}}{\text{True}} \times 100$$

Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (~~ug/L~~ mg/L)	True (~~ug/L~~ mg/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
ICV	ICP (Initial calibration)	Pb	1.01855	1.000	102	102	Y
	ICP/MS (Initial calibration)						
	CVAA (Initial calibration)						
CCV	ICP (Continuing calibration) 12/23@18:33	Pb	1.03488	1.000	103	103	Y
	ICP/MS (Continuing calibration)						
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis			± 0.1 AMU	NA	
	%RSD			≤ 5% RSD		

Comments:

LDC #: 55780D46

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (mg/kg (units))	True / D / SDR (mg/kg (units))	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Pb	0.9520 mg/L	1.000 mg/L	95	95	Y
LCS	Laboratory control sample	Pb	104.785	100.00	105	105	Y
	Matrix spike		(SSR-SR)				
	Duplicate						
	Post digestion spike						
	ICP serial dilution						

Comments: _____

LDC #: 55780D4b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: ATV

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for Pb were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

Recalculation: #6

$4.47763 \times (50/1.02) = 219.492$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

#	Sample ID	Analyte	Reported Concentration (ug/Kg)	Calculated Concentration (ug/Kg)	Acceptable (Y/N)
	1	Pb	56	56.297	Y
	2	Pb	51	51.267	Y
	3	Pb	55	55.000	Y
	4	Pb	45	44.719	Y
	5	Pb	33	33.206	Y
	6	Pb	220	219.492	Y
	7	Pb	100	100.910	Y

Note:

Quality Control
Outlier Reports

475744

LDC #: 55780E3b
SDG #: 475744
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 3

Date: 1/24/23
Page: 1 of 1
Reviewer: F
2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Initial calibration/ICV	A/A	%D PSD ≤20 ICV ≤20
III.	Continuing calibration	A	CCV ≤20
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	MS
VIII.	Laboratory control samples	A	LCS/D
IX.	Field duplicates	N	
X.	Target analyte quantitation	A	
XI.	Target analyte identification	A	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C5W-MED-L3-UP-C5.2-VS-221221-P-LA	475744-001	Wipe	12/21/22
2	AFRAME-C5W-MED-L3-UP-C5.6-HM-221221-P-CB	475744-003	Wipe	12/21/22
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

	303863						

LDC #: 55780E36 **VALIDATION FINDINGS CHECKLIST** Page: 1 of 2
Reviewer: FT

Method: ✓ GC ___ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				

Were field duplicate pairs identified in this SDG?		/		
Were target compounds detected in the field duplicates?			/	
X. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	/			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	/			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	/			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	/			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 55780E3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC ____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (500 std)	Recalculated CF (500 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL	10/24/22	Aroclor 1260 / chA	0.0578	0.0578	0.0676	0.0676	18	18
			chB	0.0510	0.0510	0.0595	0.0595	14	14
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 55780E36

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	12/27/22 1024	Aroclor 1260 chA	500.0	517.4	517.4	3	3
			chB	500.0	500.4	500.4	0	0
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 55780E3b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	chB	50.0	28.7308	57	57	0
DCB	chB	↓	26.7833	54	54	0

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 55780E3b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC ___HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration; SA = Spike added
LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 303863 LCSD

Compound	Spike Added (ug/100cm²)		Spike Sample Concentration (ug/100cm²)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	5.0	5.0	4.99	4.895	84	84	98	98	15	15

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 55780E36

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. 303863-LCS Compound Name Aroclor 1260

Concentration = $\frac{419.92\ (10)}{(1.00)(1000)}$ =

4.1992

34027

#	Sample ID	Compound	Reported Concentrations (ug / 100 cm²)	Recalculated Results Concentrations (ug / 100 cm²)	Qualifications
	LCS	Aroclor 1260	~~4.99~~ 4.199	4.1992	
	Aroclor 1260-1	= 6713395.36	(20.0)	1260-1 = 428.6	
	2	= 5264632.98	(0.0595)	2 = 422.5	
	3			3 = 420.7	
	4	= 428.6		4 = 424.1	
				5 = 403.4	
				419.92	

Comments:

LDC #: 55780E4b

SDG #: 475744

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 3

Date: 2/6/23

Page: 1 of 1

Reviewer: ATV

2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	SW	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	CS
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C5W-MED-L3-UP-C5.2-VS-221221-L-LA	475744-002	Wipe	12/21/22
2	AFRAME-C5W-MED-L3-UP-C5.6-HM-221221-L-CB	475744-004	Wipe	12/21/22
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
Were all water samples preserved to a pH of <2.			✓	
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			✓	
Were %RSDs of isoptoes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily?	✓			
Were the proper standards used?	✓			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low level standard checks within 70-130%?			✓	not reported / provided
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?		✓		
Was there contamination in the initial and continuing calibration blanks?		✓		
V. Interference Check Sample				
Were the interference check samples performed daily?	✓			
Were the AB solution recoveries within 80-120%?	✓			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			✓	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			✓	
VII. Laboratory Control Samples				
SDG?	✓			

Were the LCS recoveries and RPDs (if applicable) within QC limits?	✓			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			✓	
If the recoveries were outside the limits, was a reanalysis performed?			✓	
IX. Serial Dilution				
Were all percent differences <10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?			✓	
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XIII. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	

LDC #: 55780E4b

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were ICP interference check samples performed as required?

(Y) N N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding	Associated Samples	Qualifications
	12/23/22	ICSA (09:34)	Pb	-0.01871 (≤ 0.003333)	all	no qual (sample interferents < ICSA)

Comments:

LDC #: 55780E4b

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: ATV

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (mg/L ~~ug/L~~)	True (mg/L ~~ug/L~~)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
ICV	ICP (Initial calibration)	Pb	1.01855	1.000	102	102	Y
	ICP/MS (Initial calibration)						
	CVAA (Initial calibration)						
CCV	ICP (Continuing calibration) 12/23 @ 19:13	Pb	1.0318	1.000	103	103	Y
	ICP/MS (Continuing calibration)						
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis			± 0.1 AMU	NA	
	%RSD			≤ 5% RSD		

Comments:

LDC #: 55780E4b

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (units) (µg/kg)	True / D / SDR (units) (µg/kg)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Pb	0.95204 mg/L	1.000 mg/L	95	95	Y
LCS	Laboratory control sample	Pb	104.785	100.00	105	105	Y
	Matrix spike		(SSR-SR)				
	Duplicate						
	Post digestion spike						
	ICP serial dilution						

Comments: _____

LDC #: 55780E4b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: ATV

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for Pb were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

Recalculation: #2

3.52761 x 50 = 176.381

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

#	Sample ID	Analyte	Reported Concentration (ug/L)	Calculated Concentration (ug/L)	Acceptable (Y/N)
	1	Pb	630	630.985	Y
	2	Pb	180	176.381	Y

Note: _____

LABORATORY DATA CONSULTANTS, INC.
2701 Loker Ave. West, Suite 220, Carlsbad, CA 92010 Bus: 760-827-1100 Fax: 760-827-1099

Rincon Consultants, Inc.
250 E. 1st Street Suite 1400
Los Angeles, CA – 90012
ATTN: Mr. Ryan Thacher
rthacher@rinconconsultants.com

August 15, 2023

SUBJECT: Hangar 1 NTCRA - Data Validation

Dear Mr. Thacher,

Enclosed are the final validation reports for the fractions listed below. These SDGs were received on February 9, 2023. Attachment 1 is a summary of the samples that were reviewed for each analysis.

LDC Project #56108_RV1:

SDG #	**Fraction**
478361, 478362, 478368, 478371, 478373, 478913	Polychlorinated Biphenyls, Lead

The data validation was performed under Stage 2A & 3 guidelines. The analysis was validated using the following documents, as applicable to each method:

- USEPA National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020)
- USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020)
- EPA SW 846, Third Edition, Test Methods for Evaluating Solid Waste, update 1, July 1992; update IIA, August 1993; update II, September 1994; update IIB, January 1995; update III, December 1996; update IIIA, April 1998; IIIB, November 2004; update IV, February 2007; update V, July 2014; update VI, July 2018

Please feel free to contact us if you have any questions.

Sincerely,



Pei Geng
pgeng@lab-data.com
Project Manager/Senior Chemist

250 pages-ADV EDD

Attachment 1

Stage 2A/3 (client select) **LDC# 56108 (Rincon Consultants, Inc., Los Angeles, CA / Hangar 1 NTCRA)** **Project# 20-10491**

LDC	SDG#	DATE REC'D	(3) DATE DUE	PCBs (8082)		Pb (6010B)																													
Matrix: Water/Soil/Wipe				W	WP	W	WP	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S	W	S
A	478361	02/09/23	03/03/23	0	3	0	3																												
B	478362	02/09/23	03/03/23	0	5	0	5																												
C	478368	02/09/23	03/03/23	0	1	0	1																												
D	478371	02/09/23	03/03/23	0	7	0	7																												
E	478373	02/09/23	03/03/23	0	32	0	32																												
F	478913	02/09/23	03/03/23	-	-	0	15																												
Total	TR/PG			0	48	0	63	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	111

Shaded cells indicate Stage 3 validation (all other cells are Stage 2A validation). Sample counts do not include MS, MSD, and DUP's. V:\LOGIN\Rincon\Moffett Field, Hangar 1 NTCRA\56108ST-Wipe.wpd

LDC Report# 56108_RV1

Automated Data Review Data Validation Report
Hangar 1 NTCRA

Sample Delivery Groups

478361
478362
478368
478371
478373
478913

August 14, 2023

Introduction

This Data Validation Report (DVR) presents Stage 3 data validation results for samples collected during the January 2023 sampling period. Data validation was performed in accordance with a modified outline of the US Environmental Protection Agency (EPA) National Functional Guidelines (NFG) for Organic Superfund Methods Data Review (November 2020) and USEPA National Functional Guidelines (NFG) for Inorganic Superfund Methods Data Review (November 2020). Where specific guidance was not available, the data has been evaluated in a conservative manner consistent with industry standards using professional experience.

The analyses were performed by the following methods:

Polychlorinated Biphenyls (PCBs) by EPA SW 846 Method 8082
Lead by EPA SW 846 Method 6010B

Sample identifications, methods of analyses performed, and review levels on each sample are presented in Attachment 1. Overall data qualification summary is presented in Attachment 2. Automated Data Review outliers and manual data validation worksheets are presented in Enclosure I.

All sample results were subjected to Stage 2A data validation, which comprises an evaluation of quality control (QC) summary results. Selected samples were subjected to Stage 3 data validation as indicated on the Sample Summary Report. Stage 3 data validation is comprised of the QC summary forms as well as the raw data, to confirm sample quantitation and identification.

The following are definitions of the data qualifiers:

U Indicates the compound or analyte was analyzed for but not detected.

J Indicates an estimated value.

R Quality control indicates the data is not usable.

NJ Presumptive evidence of presence of the compound at an estimated quantity.

UJ Indicates the compound or analyte was analyzed for but not detected. The sample detection limit is an estimated value.

Sample Receipt & Technical Holding Times

All samples were received in good condition and cooler temperatures upon receipt met validation criteria.

All technical holding time requirements were met.

Initial Calibration and Initial Calibration Verification

8082
For analytes where average relative response factors (RRFs) were utilized, the percent relative standard deviations (%RSD) were less than or equal to 20.0%.

In the case where the laboratory used a calibration curve to evaluate the analytes, all coefficients of determination (r^2) were greater than or equal to 0.990.

Average relative response factors (RRF) for all analytes were within validation criteria.

The percent differences (%D) of the initial calibration verification (ICV) standard were less than or equal to 20.0% for all analytes.

Initial calibration data were not reviewed for Stage 2A validation.

6010B
An initial calibration was performed as required by the method.

The initial calibration verification (ICV) standards were within QC limits.

Initial calibration data were not reviewed for Stage 2A validation.

Continuing Calibration

8082
Continuing calibration was performed at the required frequencies.

The percent differences (%D) were less than or equal to 20.0% for all analytes.

All of the continuing calibration relative response factors (RRF) were within validation criteria.

Continuing calibration data were not reviewed for Stage 2A validation.

6010B
Continuing calibrations were performed as required by the method.

The continuing calibration verification (CCV) standards were within QC limits.

Continuing calibration data were not reviewed for Stage 2A validation.

ICP Interference Check Sample Analysis

6010B
The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

Although lead was found in the ICSA standard, no qualification was necessary since the interferent concentrations in the samples were less than ninety percent of the spiked interference concentrations in the ICSA.

Interference check sample (ICS) analysis data were not reviewed for Stage 2A validation.

Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminants were detected in the laboratory blanks.

Field Blanks

8082
Two media blanks were collected and analyzed. No contaminants were found.

6010B
Two media blanks were collected and analyzed. One media blank had detections for lead. The media blank outlier reports are presented in Enclosure I.

Surrogate Spikes

8082
Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

Internal Standards

8082
All internal standard areas and retention times were within QC limits.

Internal standard data were not reviewed for Stage 2A validation.

Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for these methods, and therefore matrix spike and matrix spike duplicate analyses were not performed.

Duplicate Sample Analysis

6010B
The laboratory has indicated that there were no laboratory duplicate (DUP) analyses specified for this method, and therefore laboratory duplicate analyses were not performed.

ICP Interference Check Sample Analysis

6010B
The frequency of interference check sample (ICS) analysis was met. All criteria were within QC limits.

Although lead was found in the ICSA standard, no qualification was necessary since the interferent concentrations in the samples were less than ninety percent of the spiked interference concentrations in the ICSA.

Interference check sample (ICS) analysis data were not reviewed for Stage 2A validation.

Laboratory Blanks

Laboratory blanks were performed as required by the methods. No contaminants were detected in the laboratory blanks.

Field Blanks

8082
Two media blanks were collected and analyzed. No contaminants were found.

6010B
Two media blanks were collected and analyzed. One media blank had detections for lead. The media blank outlier reports are presented in Enclosure I.

Surrogate Spikes

8082
Surrogates were added to all samples as required by the method. All surrogate recoveries (%R) were within QC limits.

Internal Standards

8082
All internal standard areas and retention times were within QC limits.

Internal standard data were not reviewed for Stage 2A validation.

Matrix Spike/Matrix Spike Duplicates

The laboratory has indicated that there were no matrix spike (MS) and matrix spike duplicate (MSD) analyses specified for these methods, and therefore matrix spike and matrix spike duplicate analyses were not performed.

Duplicate Sample Analysis

6010B
The laboratory has indicated that there were no laboratory duplicate (DUP) analyses specified for this method, and therefore laboratory duplicate analyses were not performed.

Laboratory Control Samples

Laboratory control samples (LCS) and laboratory control sample duplicates (LCSD) were analyzed as required by the methods. Percent recoveries (%R) and relative percent differences (RPD) were within QC limits.

Field Duplicates

8082
Four field duplicate pairs were collected and analyzed. No contaminants were found.

6010B
Five field duplicate pairs were collected and analyzed. All RPDs were within QC limits. The field duplicate result comparisons are presented in Enclosure I.

Target Analyte Quantitation

The laboratory reporting limits were evaluated. While the reporting limits were not achieved in accordance with the UFP-QAPP, the achieved reporting limits are acceptable with respect to the Cleanup Goals.

Overall Assessment of Data

The analyses were conducted within all specifications of the methods. No results were rejected in these SDGs.

Data flags are summarized and are presented as Attachment 2.

Attachment 1

Sample Summary Report by Analysis Method

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (3/10/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 478361						
Method: 6010B						
AFRAME-C3W-LAT-L2-HS-1-L-230127-FB	478361-005	WIPE	N	3050B	1/27/2023 9:15:00 AM	S3VEM
AFRAME-C3W-MED-L2-UP-C3.7-DG-230127-L-LA	478361-002	WIPE	N	3050B	1/27/2023 9:26:00 AM	S3VEM
AFRAME-C5W-MED-L2-HS-1-230127-L-G	478361-004	WIPE	N	3050B	1/27/2023 9:00:00 AM	S3VEM
Method: 8082						
AFRAME-C3W-LAT-L2-HS-1-P-230127-FB	478361-006	WIPE	N	3546	1/27/2023 9:15:00 AM	S3VEM
AFRAME-C3W-MED-L2-UP-C3.7-DG-230127-P-LA	478361-001	WIPE	N	3546	1/27/2023 9:26:00 AM	S3VEM
AFRAME-C5W-MED-L2-HS-1-230127-P-G	478361-003	WIPE	N	3546	1/27/2023 9:00:00 AM	S3VEM

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (3/10/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*		*Collection Date*	*Validation Code*
Lab Reporting Batch: 478362							
Method: 6010B							
ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-L-LA	478362-006	WIPE	N	3050B		1/26/2023 1:25:00 PM	S2AVE
ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-L-LA	478362-010	WIPE	N	3050B		1/26/2023 1:40:00 PM	S2AVE
ARCH-C3W-EXT-7 TO 8-230126-L-WF	478362-004	WIPE	N	3050B		1/26/2023 1:05:00 PM	S2AVE
ARCH-C4W-DG-7 TO 7.5-230126-L-FB	478362-002	WIPE	N	3050B		1/26/2023 12:55:00 PM	S2AVE
ARCH-C5W-DG-8 TO 9-UP-C5.7-VS-230126-L-LA	478362-008	WIPE	N	3050B		1/26/2023 1:55:00 PM	S2AVE
Method: 8082							
ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-P-LA	478362-005	WIPE	N		3546	1/26/2023 1:25:00 PM	S2AVE
ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-P-LA	478362-009	WIPE	N		3546	1/26/2023 1:40:00 PM	S2AVE
ARCH-C3W-EXT-7 TO 8-230126-P-WF	478362-003	WIPE	N		3546	1/26/2023 1:05:00 PM	S2AVE
ARCH-C4W-DG-7 TO 7.5-230126-P-FB	478362-001	WIPE	N		3546	1/26/2023 12:55:00 PM	S2AVE
ARCH-C5W-DG-8 TO 9-UP-C5.7-VS-230126-P-LA	478362-007	WIPE	N		3546	1/26/2023 1:55:00 PM	S2AVE

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (3/10/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 478368						
Method: 6010B						
230126-L-MEDBLANK1	478368-002	WIPE	FB	~~3050B~~	~~1/26/2023 12:50:00 PM~~	S2AVE
Method: 8082						
230126-P-MEDBLANK1	478368-001	WIPE	FB	3546	~~1/26/2023 12:50:00 PM~~	S2AVE

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (3/10/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 478371						
Method: 6010B						
AFRAME-C3W-LAT-L3-UP-C3.1-DG-230126-L-LA	478371-012	WIPE	N	3050B	1/26/2023 2:50:00 PM	S3VEM
AFRAME-C3W-MED-L3-EXT-0 TO 1-DG-230126-L-WF	478371-014	WIPE	N	3050B	1/26/2023 3:10:00 PM	S3VEM
AFRAME-C3W-MED-L3-EXT-1 TO 2-230126-L-DUP-WF	478371-003	WIPE	FD	3050B	1/26/2023 2:25:00 PM	S3VEM
AFRAME-C3W-MED-L3-EXT-1 TO 2-230126-L-WF	478371-002	WIPE	N	3050B	1/26/2023 2:25:00 PM	S3VEM
AFRAME-C4W-LAT-L3-EXT-1 TO 2-230126-L-DUP-WF	478371-006	WIPE	FD	3050B	1/26/2023 2:10:00 PM	S3VEM
AFRAME-C4W-LAT-L3-EXT-1 TO 2-230126-L-WF	478371-005	WIPE	N	3050B	1/26/2023 2:10:00 PM	S3VEM
AFRAME-C5W-MED-L3-DN-C5.5-DG-230126-L-LA	478371-009	WIPE	N	3050B	1/26/2023 3:25:00 PM	S3VEM
Method: 8082						
AFRAME-C3W-LAT-L3-UP-C3.1-DG-230126-P-DUP-LA	478371-011	WIPE	FD	3546	1/26/2023 2:50:00 PM	S3VEM
AFRAME-C3W-LAT-L3-UP-C3.1-DG-230126-P-LA	478371-010	WIPE	N	3546	1/26/2023 2:50:00 PM	S3VEM
AFRAME-C3W-MED-L3-EXT-0 TO 1-DG-230126-P-WF	478371-013	WIPE	N	3546	1/26/2023 3:10:00 PM	S3VEM
AFRAME-C3W-MED-L3-EXT-1 TO 2-230126-P-WF	478371-001	WIPE	N	3546	1/26/2023 2:25:00 PM	S3VEM
AFRAME-C4W-LAT-L3-EXT-1 TO 2-230126-P-WF	478371-004	WIPE	N	3546	1/26/2023 2:10:00 PM	S3VEM
AFRAME-C5W-MED-L3-DN-C5.5-DG-230126-P-DUP-LA	478371-008	WIPE	FD	3546	1/26/2023 3:25:00 PM	S3VEM
AFRAME-C5W-MED-L3-DN-C5.5-DG-230126-P-LA	478371-007	WIPE	N	3546	1/26/2023 3:25:00 PM	S3VEM

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (3/10/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 478373						
Method: 6010B						
230127-L-MEDBLANK2	478373-064	WIPE	FB	3050B	1/27/2023 8:35:00 AM	S2AVE
AFRAME-C3W-LAT-L1-DN-C3W-DG-230127-L-CB	478373-058	WIPE	N	3050B	1/27/2023 11:20:00 AM	S2AVE
AFRAME-C3W-LAT-L1-HS-3-230127-L-A	478373-028	WIPE	N	3050B	1/27/2023 11:20:00 AM	S2AVE
AFRAME-C3W-LAT-L1-INT-0 TO 1-DG-230127-L-FB	478373-054	WIPE	N	3050B	1/27/2023 11:00:00 AM	S2AVE
AFRAME-C3W-LAT-L1-UP-C3.1-VS-230127-L-I	478373-034	WIPE	N	3050B	1/27/2023 8:55:00 AM	S2AVE
AFRAME-C3W-LAT-L1-UP-C3.7-HS-230127-L-LA	478373-045	WIPE	N	3050B	1/27/2023 10:00:00 AM	S2AVE
AFRAME-C3W-MED-L1-DN-C3W-DG-230127-L-SS	478373-056	WIPE	N	3050B	1/27/2023 11:10:00 AM	S2AVE
AFRAME-C3W-MED-L1-EXT-1 TO 2-230127-L-WF	478373-043	WIPE	N	3050B	1/27/2023 9:45:00 AM	S2AVE
AFRAME-C3W-MED-L1-HS-3-230127-L-G	478373-030	WIPE	N	3050B	1/27/2023 8:40:00 AM	S2AVE
AFRAME-C3W-MED-L1-INT-2 TO 3-DG-230127-L-FB	478373-018	WIPE	N	3050B	1/27/2023 11:10:00 AM	S2AVE
AFRAME-C3W-MED-L1-UP-C3.1-VS-230127-L-LA	478373-020	WIPE	N	3050B	1/27/2023 12:10:00 PM	S2AVE
AFRAME-C3W-MED-L1-UP-C3.6-DG-230127-L-SS	478373-032	WIPE	N	3050B	1/27/2023 9:03:00 AM	S2AVE
AFRAME-C3W-MED-L2-DN-C3.4-DG-230127-L-LA	478373-007	WIPE	N	3050B	1/27/2023 10:15:00 AM	S2AVE
AFRAME-C3W-MED-L2-UP-C3.3-DG-230127-L-LA	478373-002	WIPE	N	3050B	1/27/2023 8:40:00 AM	S2AVE
AFRAME-C4W-EXT-L1-HS-3-230127-L-A	478373-037	WIPE	N	3050B	1/27/2023 9:12:00 AM	S2AVE
AFRAME-C4W-LAT-L1-INT-1 TO 2-230127-L-FB	478373-047	WIPE	N	3050B	1/27/2023 10:15:00 AM	S2AVE
AFRAME-C4W-MED-L1-EXT-2 TO 3-VS-230127-L-WF	478373-022	WIPE	N	3050B	1/27/2023 11:55:00 AM	S2AVE
AFRAME-C4W-MED-L2-INT-0 TO 1-230127-L-FB	478373-009	WIPE	N	3050B	1/27/2023 9:50:00 AM	S2AVE
AFRAME-C5W-LAT-L1-DN-C5W-DG-230127-L-CB	478373-052	WIPE	N	3050B	1/27/2023 10:25:00 AM	S2AVE
AFRAME-C5W-LAT-L1-EXT-1 TO 2-230127-L-DUP-WF	478373-050	WIPE	FD	3050B	1/27/2023 10:36:00 AM	S2AVE

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (3/10/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Method: 6010B						
AFRAME-C5W-LAT-L1-EXT-1 TO 2-230127-L-WF	478373-049	WIPE	N	3050B	1/27/2023 10:36:00 AM	S2AVE
AFRAME-C5W-LAT-L1-UP-C5.1-VS-230127-L-I	478373-041	WIPE	N	3050B	1/27/2023 9:33:00 AM	S2AVE
AFRAME-C5W-LAT-L1-UP-C5.6-DG-230127-L-CB	478373-026	WIPE	N	3050B	1/27/2023 11:31:00 AM	S2AVE
AFRAME-C5W-LAT-L2-DN-C5.7-VS-230127-L-I	478373-014	WIPE	N	3050B	1/27/2023 10:50:00 AM	S2AVE
AFRAME-C5W-LAT-L2-INT-0 TO 1-230127-L-DUP-FB	478373-012	WIPE	FD	3050B	1/27/2023 9:55:00 AM	S2AVE
AFRAME-C5W-LAT-L2-INT-0 TO 1-230127-L-FB	478373-011	WIPE	N	3050B	1/27/2023 9:55:00 AM	S2AVE
AFRAME-C5W-MED-L1-DN-C5W-DG-230127-L-SS	478373-062	WIPE	N	3050B	1/27/2023 11:50:00 AM	S2AVE
AFRAME-C5W-MED-L1-HS-3-230127-L-A	478373-039	WIPE	N	3050B	1/27/2023 9:25:00 AM	S2AVE
AFRAME-C5W-MED-L1-INT-1 TO 2-DG-230127-L-FB	478373-060	WIPE	N	3050B	1/27/2023 11:35:00 AM	S2AVE
AFRAME-C5W-MED-L1-UP-C5.1-DG-230127-L-SS	478373-024	WIPE	N	3050B	1/27/2023 11:45:00 AM	S2AVE
AFRAME-C5W-MED-L2-DN-C5.3-DG-230127-L-LA	478373-016	WIPE	N	3050B	1/27/2023 10:32:00 AM	S2AVE
AFRAME-C5W-MED-L2-UP-C5.2-DG-230127-L-LA	478373-004	WIPE	N	3050B	1/27/2023 9:40:00 AM	S2AVE
Method: 8082						
230127-P-MEDBLANK2	478373-063	WIPE	FB	3546	1/27/2023 8:35:00 AM	S2AVE
AFRAME-C3W-LAT-L1-DN-C3W-DG-230127-P-CB	478373-057	WIPE	N	3546	1/27/2023 11:20:00 AM	S2AVE
AFRAME-C3W-LAT-L1-HS-3-230127-P-A	478373-027	WIPE	N	3546	1/27/2023 11:20:00 AM	S2AVE
AFRAME-C3W-LAT-L1-INT-0 TO 1-DG-230127-P-FB	478373-053	WIPE	N	3546	1/27/2023 11:00:00 AM	S2AVE
AFRAME-C3W-LAT-L1-UP-C3.1-VS-230127-P-I	478373-033	WIPE	N	3546	1/27/2023 8:55:00 AM	S2AVE
AFRAME-C3W-LAT-L1-UP-C3.7-HS-230127-P-LA	478373-044	WIPE	N	3546	1/27/2023 10:00:00 AM	S2AVE
AFRAME-C3W-MED-L1-DN-C3W-DG-230127-P-SS	478373-055	WIPE	N	3546	1/27/2023 11:10:00 AM	S2AVE
AFRAME-C3W-MED-L1-EXT-1 TO 2-230127-P-WF	478373-042	WIPE	N	3546	1/27/2023 9:45:00 AM	S2AVE

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (3/10/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Method: 8082						
AFRAME-C3W-MED-L1-HS-3-230127-P-G	478373-029	WIPE	N	3546	1/27/2023 8:40:00 AM	S2AVE
AFRAME-C3W-MED-L1-INT-2 TO 3-DG-230127-P-FB	478373-017	WIPE	N	3546	1/27/2023 11:10:00 AM	S2AVE
AFRAME-C3W-MED-L1-UP-C3.1-VS-230127-P-LA	478373-019	WIPE	N	3546	1/27/2023 12:10:00 PM	S2AVE
AFRAME-C3W-MED-L1-UP-C3.6-DG-230127-P-SS	478373-031	WIPE	N	3546	1/27/2023 9:03:00 AM	S2AVE
AFRAME-C3W-MED-L2-DN-C3.4-DG-230127-P-DUP-LA	478373-006	WIPE	FD	3546	1/27/2023 10:15:00 AM	S2AVE
AFRAME-C3W-MED-L2-DN-C3.4-DG-230127-P-LA	478373-005	WIPE	N	3546	1/27/2023 10:15:00 AM	S2AVE
AFRAME-C3W-MED-L2-UP-C3.3-DG-230127-P-LA	478373-001	WIPE	N	3546	1/27/2023 8:40:00 AM	S2AVE
AFRAME-C4W-EXT-L1-HS-3-230127-P-A	478373-035	WIPE	N	3546	1/27/2023 9:12:00 AM	S2AVE
AFRAME-C4W-EXT-L1-HS-3-230127-P-DUP-A	478373-036	WIPE	FD	3546	1/27/2023 9:12:00 AM	S2AVE
AFRAME-C4W-LAT-L1-INT-1 TO 2-230127-P-FB	478373-046	WIPE	N	3546	1/27/2023 10:15:00 AM	S2AVE
AFRAME-C4W-MED-L1-EXT-2 TO 3-VS-230127-P-WF	478373-021	WIPE	N	3546	1/27/2023 11:55:00 AM	S2AVE
AFRAME-C4W-MED-L2-INT-0 TO 1-230127-P-FB	478373-008	WIPE	N	3546	1/27/2023 9:50:00 AM	S2AVE
AFRAME-C5W-LAT-L1-DN-C5W-DG-230127-P-CB	478373-051	WIPE	N	3546	1/27/2023 10:25:00 AM	S2AVE
AFRAME-C5W-LAT-L1-EXT-1 TO 2-230127-P-WF	478373-048	WIPE	N	3546	1/27/2023 10:36:00 AM	S2AVE
AFRAME-C5W-LAT-L1-UP-C5.1-VS-230127-P-I	478373-040	WIPE	N	3546	1/27/2023 9:33:00 AM	S2AVE
AFRAME-C5W-LAT-L1-UP-C5.6-DG-230127-P-CB	478373-025	WIPE	N	3546	1/27/2023 11:31:00 AM	S2AVE
AFRAME-C5W-LAT-L2-DN-C5.7-VS-230127-P-I	478373-013	WIPE	N	3546	1/27/2023 10:50:00 AM	S2AVE
AFRAME-C5W-LAT-L2-INT-0 TO 1-230127-P-FB	478373-010	WIPE	N	3546	1/27/2023 9:55:00 AM	S2AVE
AFRAME-C5W-MED-L1-DN-C5W-DG-230127-P-SS	478373-061	WIPE	N	3546	1/27/2023 11:50:00 AM	S2AVE
AFRAME-C5W-MED-L1-HS-3-230127-P-A	478373-038	WIPE	N	3546	1/27/2023 9:25:00 AM	S2AVE

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (3/10/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Method: 8082						
AFRAME-C5W-MED-L1-INT-1 TO 2-DG-230127-P-FB	478373-059	WIPE	N	3546	1/27/2023 11:35:00 AM	S2AVE
AFRAME-C5W-MED-L1-UP-C5.1-DG-230127-P-SS	478373-023	WIPE	N	3546	1/27/2023 11:45:00 AM	S2AVE
AFRAME-C5W-MED-L2-DN-C5.3-DG-230127-P-LA	478373-015	WIPE	N	3546	1/27/2023 10:32:00 AM	S2AVE
AFRAME-C5W-MED-L2-UP-C5.2-DG-230127-P-LA	478373-003	WIPE	N	3546	1/27/2023 9:40:00 AM	S2AVE

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (3/10/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*
Lab Reporting Batch: 478913						
Method: 6010B						
AFRAME-C3W-LAT-L1-DN-C3W-DG-230204-L-CB	478913-014	WIPE	N	3050B	2/4/2023 9:10:00 AM	S2AVE
AFRAME-C3W-LAT-L1-INT-0 TO 1-230204-L-FB	478913-012	WIPE	N	3050B	2/4/2023 9:00:00 AM	S2AVE
AFRAME-C3W-LAT-L1-UP-C3.1-VS-230204-L-I	478913-002	WIPE	N	3050B	2/4/2023 7:37:00 AM	S2AVE
AFRAME-C3W-LAT-L1-UP-C3.7-HS-230204-L-LA	478913-007	WIPE	N	3050B	2/4/2023 8:20:00 AM	S2AVE
AFRAME-C3W-MED-L1-DN-C3W-DG-230204-L-SS	478913-013	WIPE	N	3050B	2/4/2023 9:20:00 AM	S2AVE
AFRAME-C3W-MED-L1-EXT-1 TO 2-230204-L-WF	478913-006	WIPE	N	3050B	2/4/2023 8:10:00 AM	S2AVE
AFRAME-C3W-MED-L1-HS-3-230204-L-G	478913-001	WIPE	N	3050B	2/4/2023 7:30:00 AM	S2AVE
AFRAME-C4W-LAT-L1-HS-3-230204-L-A	478913-003	WIPE	N	3050B	2/4/2023 7:45:00 AM	S2AVE
AFRAME-C4W-LAT-L1-INT-1 TO 2-230204-L-FB	478913-008	WIPE	N	3050B	2/4/2023 8:30:00 AM	S2AVE
AFRAME-C5W-LAT-L1-DN-C5W-DG-230204-L-CB	478913-011	WIPE	N	3050B	2/4/2023 9:30:00 AM	S2AVE
AFRAME-C5W-LAT-L1-EXT-1 TO 2-230204-L-DUP-WF	478913-010	WIPE	FD	3050B	2/4/2023 8:40:00 AM	S2AVE
AFRAME-C5W-LAT-L1-EXT-1 TO 2-230204-L-WF	478913-009	WIPE	N	3050B	2/4/2023 8:40:00 AM	S2AVE
AFRAME-C5W-LAT-L1-UP-C5.1-VS-230204-L-I	478913-005	WIPE	N	3050B	2/4/2023 8:00:00 AM	S2AVE
AFRAME-C5W-MED-L1-DN-C5W-DG-230204-L-SS	478913-015	WIPE	N	3050B	2/4/2023 9:35:00 AM	S2AVE
AFRAME-C5W-MED-L1-HS-3-230204-L-A	478913-004	WIPE	N	3050B	2/4/2023 7:52:00 AM	S2AVE

Crossed out Sample IDs not collected in the Low Occupancy Area of Zone 3.

Data Review Sample Summary Report by Analysis Method

Reviewed By: Blake Newell (3/10/2023) **Approved By:** **Laboratory: Enthalpy Orange**

Client Sample ID	*Lab Sample ID*	*Matrix*	*Sample Type*	*Preparation Method*	*Collection Date*	*Validation Code*

Validation Label Legend

Label Code	*Label Decription*	*EPA Level*
S1VE	Stage_1_Validation_Electronic	N/A
S1VM	Stage_1_Validation_Manual	N/A
S1VEM	Stage_1_Validation_Electronic_and_Manual	N/A
S2AVE	Stage_2A_Validation_Electronic	Level 3 w/o calibration
S2AVM	Stage_2A_Validation_Manual	Level 3 w/o calibration
S2AVEM	Stage_2A_Validation_Electronic_and_Manual	Level 3 w/o calibration
S2BVE	Stage_2B_Validation_Electronic	Level 3 with calibration
S2BVM	Stage_2B_Validation_Manual	Level 3 with calibration
S2BVEM	Stage_2B_Validation_Electronic_and_Manual	Level 3 with calibration
S3VE	Stage_3_Validation_Electronic	Level 4
S3VM	Stage_3_Validation_Manual	Level 4
S3VEM	Stage_3_Validation_Electronic_and_Manual	Level 4
S4VE	Stage_4_Validation_Electronic	Level 4
S4VM	Stage_4_Validation_Manual	Level 4
S4VEM	Stage_4_Validation_Electronic_and_Manual	Level 4
NV	Not_Validated	N/A

Attachment 2

Overall Data Qualification Summary

Data Qualifier Summary

Lab Reporting Batch ID: 478361

Laboratory: Enthalpy Orange

EDD Filename: Prep478361

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 478362

Laboratory: Enthalpy Orange

EDD Filename: Prep478362

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 478368

Laboratory: Enthalpy Orange

EDD Filename: Prep478368

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 478371

Laboratory: Enthalpy Orange

EDD Filename: Prep478371

eQAPP Name:

No Data Review Qualifiers Applied.

Data Qualifier Summary

Lab Reporting Batch ID: 478913

Laboratory: Enthalpy Orange

EDD Filename: Prep478913

eQAPP Name:

No Data Review Qualifiers Applied.

Enclosure I

Validation Outlier Reports

Quality Control
Outlier Reports

478361

(No Outliers)

LDC #: 56108A3b
SDG #: 478361
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 3

Date: 3/1/23
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

~~cooler temp = 6.3 & 7.2°C~~

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Initial calibration/ICV	A/A	%RSD ≤ 20, r² ICV ≤ 20
III.	Continuing calibration	A	CW ≤ 20
IV.	Laboratory Blanks	A	
V.	Field blanks	ND	FB = 3
VI.	Surrogate spikes /17	A/A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS ID
IX.	Field duplicates	N	
X.	Target analyte quantitation	A	
XI.	Target analyte identification	A	
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C3W-MED-L2-UP-C3.7-DG-230127-P-LA	478361-001	Wipe	01/27/23
2	AFRAME-C5W-MED-L2-HS-1-230127-P-G	478361-003	Wipe	01/27/23
3	AFRAME-C3W-LAT-L2-HS-1-P-230127-FB	478361-006	Wipe	01/27/23
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

	30646U						

LDC #: 56108A3b

VALIDATION FINDINGS CHECKLIST

Reviewer: FT

Method: ✓ GC ___ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?			✓	
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?	✓			
Were target compounds detected in the field blanks?		✓		
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				

Were field duplicate pairs identified in this SDG?		✓		
Were target compounds detected in the field duplicates?			✓	
X. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XIII. Overall assessment of data	✓			
Overall assessment of data was found to be acceptable.				

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 56108A3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (250 std)	Recalculated CF (250 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/4/23	Aroclor 1260-1 (A)	0.0750	0.0750	0.0740	0.0740	18	18
		↓	(B)	0.0622	0.0622	0.0624	0.0624	19	19
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56108A3b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC _____ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	2/2/23 1218	Aroclor 1260 (A)	500.0	480.8	480.8	4	4
			(B)	↓	548.0	548.0	10	10
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56108A3b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
~~RFB~~ TCMX	ch B	50	42.9704	86	86	0
DCB	↓	↓	44.1949	88	88	↓

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C`	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 56108A3b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC ___HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample
SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 306460 res1P

Compound	Spike Added (ug/100cm²)		Spike Sample Concentration (ug/100cm²)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	5.0	5.0	4.318	4.156	86	86	83	83	4	4

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56168A3b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= (A)(Fv)(Df) / (RF)(Vs or Ws)(%S/100)

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. 306460 LCS Compound Name Aroclor 1260

Concentration = $\frac{(431.772)(10)}{(1)(1000)(\text{sample})}$ =

= 4.31772

#	Sample ID	Compound	Reported Concentrations (ug/100cm²)	Recalculated Results Concentrations (ug/100cm²)	Qualifications
	LCS	Aroclor 1260	4.318	4.31772	
	Aroclor 1260-1 =	7941203.18 (20) / 5932699.91 (0.0624)	= 394.06	1260-1 =	394.06
				2 =	468.9
				3 =	420.6
				4 =	457.6
				5 =	417.7
					Ave = 431.772

Comments:

LDC #: 56108A4b
SDG #: 478361
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 3

Date: 3/9/23
Page: 1 of 1
Reviewer: ATL
2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	SW	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C3W-MED-L2-UP-C3.7-DG-230127-L-LA	478361-002	Wipe	01/27/23
2	AFRAME-C5W-MED-L2-HS-1-230127-L-G	478361-004	Wipe	01/27/23
3	AFRAME-C3W-LAT-L2-HS-1-L-230127-FB	478361-005	Wipe	01/27/23
4				
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14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
Were all water samples preserved to a pH of <2.			✓	
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			✓	
Were %RSDs of isoptoes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily?	✓			
Were the proper standards used?	✓			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low level standard checks within 70-130%?			✓	not provide / report
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?		✓		
Was there contamination in the initial and continuing calibration blanks?		✓		
V. Interference Check Sample				
Were the interference check samples performed daily?	✓			
Were the AB solution recoveries within 80-120%?	✓			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			✓	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			✓	
VII. Laboratory Control Samples				
SDG?	✓			

Were the LCS recoveries and RPDs (if applicable) within QC limits?	✓			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			✓	
If the recoveries were outside the limits, was a reanalysis performed?			✓	
IX. Serial Dilution				
Were all percent differences <10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?			✓	
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?		✓		
Were target analytes detected in the field duplicates?			✓	
XIII. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	

LDC #: 56108A4b

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were ICP interference check samples performed as required?

(Y) N N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding	Associated Samples	Qualifications
	01/30/23	ICSA (13:59)	Pb	0.01370 (≤ 0.003333)	all	no qual (sample interferents < ICSA)

Comments:

LDC #: 56108A46

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

%R = Found / True x 100 Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (~~ug/L~~ mg/L)	True (~~ug/L~~ mg/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
ICV	ICP (Initial calibration)	Pb	1.04673	1.000	105	105	Y
	ICP/MS (Initial calibration)						
	CVAA (Initial calibration)						
CCV	ICP (Continuing calibration) 1130 e 19:39	Pb	1.04872	1.000	105	105	Y
	ICP/MS (Continuing calibration)						
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis			± 0.1 AMU	NA	
	%RSD			≤ 5% RSD		

Comments:

LDC #: 56108A46

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (µg/ft2 (units)	True / D / SDR (µg/ft2 (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Pb	1.05725 mg/L	1.000 mg/L	106	106	Y
LCS	Laboratory control sample	Pb	52.929	50.00	106	106	Y
	Matrix spike		(SSR-SR)				
	Duplicate						
	Post digestion spike						
	ICP serial dilution						

Comments: _____

LDC #: 56108A4b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Page: 1 of 1
Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Have results been reported and calculated correctly?
(Y) N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y) N N/A Are all detection limits below the CRDL?

Detected analyte results for Pb were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation:

$2.81626 \times (50/1.14) = 123.520$

#	Sample ID	Analyte	Reported Concentration (µg/L)	Calculated Concentration (µg/L)	Acceptable (Y/N)
	1	Pb	190	186.547	Y
	2	Pb	120	123.520	Y
	3	Pb	150	153.343	Y

Note:

Quality Control
Outlier Reports

478362

(No Outliers)

LDC #: 56108B3b

SDG #: 478362

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 3/10/23

Page: __of__

Reviewer: BM

2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	N	
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	N	
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII.	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C4W-DG-7 TO 7.5-230126-P-FB	478362-001	Wipe	01/26/23
2	ARCH-C3W-EXT-7 TO 8-230126-P-WF	478362-003	Wipe	01/26/23
3	ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-P-LA	478362-005	Wipe	01/26/23
4	ARCH-C5W-DG-8 TO 9-UP-C5.7-VS-230126-P-LA	478362-007	Wipe	01/26/23
5	ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-P-LA	478362-009	Wipe	01/26/23
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

LDC #: 56108B4b

SDG #: 478362

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 3/10/23

Page: ___ of ___

Reviewer: BM

2nd Reviewer: _____

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	ND	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	N	
XII	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	ARCH-C4W-DG-7 TO 7.5-230126-L-FB	478362-002	Wipe	01/26/23
2	ARCH-C3W-EXT-7 TO 8-230126-L-WF	478362-004	Wipe	01/26/23
3	ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230126-L-LA	478362-006	Wipe	01/26/23
4	ARCH-C5W-DG-8 TO 9-UP-C5.7-VS-230126-L-LA	478362-008	Wipe	01/26/23
5	ARCH-C3W-DG-8 TO 9-UP-C3.1-VS-230126-L-LA	478362-010	Wipe	01/26/23
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes: _____

Quality Control
Outlier Reports

478368

Field Blank Contamination Report

Lab Reporting Batch ID: 478368

Laboratory: Enthalpy Orange

EDD Filename: Prep478368

Moffett_Hangar_1_NTCRA_Enthalpy_220609

Method: 6010B
Matrix: WIPE

Analyte	*Sample*	*Concentration (ug/ft2)*	*Flag*
LEAD	230126-L-MEDBLANK1	3.8	No Qualifiers Applied

LDC #: 56108C3b

SDG #: 478368

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date: 3/10/23

Page: __ of __

Reviewer: [illegible]

2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A, A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	ND	FB=1
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	N	
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	230126-P-MEDBLANK1	478368-001	Wipe	01/26/23
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				

Notes:

LDC #: 56108C4b
SDG #: 478368
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 2A

Date: 3/10/23
Page: ___ of ___
Reviewer: [illegible]
2nd Reviewer: ___

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	ND	
V.	Field Blanks	SW	FB=1
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	N	
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	230126-L-MEDBLANK1	478368-002	Wipe	01/26/23
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

Notes: ___

Quality Control
Outlier Reports

478371

Field Duplicate RPD Report

Lab Reporting Batch ID: 478371 **Laboratory: Enthalpy Orange**

EDD Filename: Prep478371 **eQAPP Name:**

Method: 6010B
Matrix: WIPE

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	AFRAME-C4W-LAT-L3-EXT-1 TO 2-230126-	AFRAME-C4W-LAT-L3-EXT-1 TO 2-230126-L-			
LEAD	160	150	6	100.00	No Qualifiers Applied

Project Name and Number: 20-10491 - Hangar 1 NTCRA

LDC #: 56108D3b
SDG #: 478371
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 3

Date: 3/1/23
Page: 1 of 1
Reviewer: [illegible]
2nd Reviewer: [illegible]

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	A / A	%RSD ≤ 20, r² ICV ≤ 20
III.	Continuing calibration	A	CCV ≤ 20
IV.	Laboratory Blanks	A	
V.	Field blanks	N	
VI.	Surrogate spikes / 15	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	LCS ID
IX.	Field duplicates	ND	D = 3, 4 5, 6
X.	Target analyte quantitation	A	
XI.	Target analyte identification	A	
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID		Lab ID	Matrix	Date
1	AFRAME-C3W-MED-L3-EXT-1 TO 2-230126-P-WF		478371-001	Wipe	01/26/23
2	AFRAME-C4W-LAT-L3-EXT-1 TO 2-230126-P-WF		478371-004	Wipe	01/26/23
3	AFRAME-C5W-MED-L3-DN-C5.5-DG-230126-P-LA	D	478371-007	Wipe	01/26/23
4	AFRAME-C5W-MED-L3-DN-C5.5-DG-230126-P-DUP-LA	D	478371-008	Wipe	01/26/23
5	AFRAME-C3W-LAT-L3-UP-C3.1-DG-230126-P-LA	D,	478371-010	Wipe	01/26/23
6	AFRAME-C3W-LAT-L3-UP-C3.1-DG-230126-P-DUP-LA	D,	478371-011	Wipe	01/26/23
7	AFRAME-C3W-MED-L3-EXT-0 TO 1-DG-230126-P-WF		478371-013	Wipe	01/26/23
8					
9					
10					
11					
12					
13					

Notes:

	306459						

LDC #: 56108 D3b

VALIDATION FINDINGS CHECKLIST

Method: ✓ GC ___ HPLC

Validation Area	Yes	No	NA	Findings/Comments
I. Technical holding times				
Were all technical holding times met?	✓			
Was cooler temperature criteria met?	✓			
IIa. Initial calibration				
Did the laboratory perform a 5 point calibration prior to sample analysis?	✓			
Were all percent relative standard deviations (%RSD) ≤ 20%?	✓			
Was a curve fit used for evaluation? If yes, did the initial calibration meet the curve fit acceptance criteria of ≥0.990?	✓			
Were the RT windows properly established?	✓			
IIb. Initial calibration verification				
Was an initial calibration verification standard analyzed after each initial calibration for each instrument?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
III. Continuing calibration				
Was a continuing calibration analyzed daily?	✓			
Were all percent differences (%D) ≤ 20%?	✓			
Were all the retention times within the acceptance windows?	✓			
IV. Laboratory Blanks				
Was a laboratory blank associated with every sample in this SDG?	✓			
Was a laboratory blank analyzed for each matrix and concentration?	✓			
Was there contamination in the laboratory blanks?		✓		
V. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target compounds detected in the field blanks?			✓	
VI. Surrogate spikes				
Were all surrogate percent recovery (%R) within the QC limits?	✓			
If the percent recovery (%R) of one or more surrogates was outside QC limits, was a reanalysis performed to confirm %R?			✓	
If any %R was less than 10 percent, was a reanalysis performed to confirm %R?			✓	
VII. Matrix spike/Matrix spike duplicates				
Were matrix spike (MS) and matrix spike duplicate (MSD) analyzed in this SDG?			✓	
Were the MS/MSD percent recoveries (%R) and the relative percent differences (RPD) within the QC limits?			✓	
VIII. Laboratory control samples				
Was an LCS analyzed per analytical or extraction batch?	✓			
Were the LCS percent recoveries (%R) and relative percent difference (RPD) within the QC limits?	✓			
IX. Field duplicates				

Were field duplicate pairs identified in this SDG?	✓			
Were target compounds detected in the field duplicates?		✓		
X. Compound quantitation				
Did the laboratory LOQs/RLs meet the QAPP LOQs/RLs?	✓			
Were compound quantitation and RLs adjusted to reflect all sample dilutions and dry weight factors applicable to level IV validation?	✓			
XI. Target compound identification				
Were the retention times of reported detects within the RT windows?	✓			
XIII. Overall assessment of data				
Overall assessment of data was found to be acceptable.	✓			

VALIDATION FINDINGS WORKSHEET

METHOD: Pesticide/PCBs (EPASW 846 Method 8081/8082)

A. alpha-BHC	I. Dieldrin	Q. Endrin ketone	Y. Aroclor-1242	GG. Chlordane
B. beta-BHC	J. 4,4'-DDE	R. Endrin aldehyde	Z. Aroclor-1248	HH. Chlordane (Technical)
C. delta-BHC	K. Endrin	S. alpha-Chlordane	AA. Aroclor-1254	II. Aroclor 1262
D. gamma-BHC	L. Endosulfan II	T. gamma-Chlordane	BB. Aroclor-1260	JJ. Aroclor 1268
E. Heptachlor	M. 4,4'-DDD	U. Toxaphene	CC. 2,4'-DDD	KK. Oxychlordane
F. Aldrin	N. Endosulfan sulfate	V. Aroclor-1016	DD. 2,4'-DDE	LL. trans-Nonachlor
G. Heptachlor epoxide	O. 4,4'-DDT	W. Aroclor-1221	EE. 2,4'-DDT	MM. cis-Nonachlor
H. Endosulfan I	P. Methoxychlor	X. Aroclor-1232	FF. Hexachlorobenzene	NN.

Notes:_____

LDC #: 56108D3b

VALIDATION FINDINGS WORKSHEET
Initial Calibration Calculation Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The calibration factors (CF) and relative standard deviation (%RSD) were recalculated using the following calculations:

CF = A/C
Average CF = sum of the CF/number of standards
%RSD = 100 * (S/X)

Where: A = Area of compound
C = Concentration of compound
S = Standard deviation of calibration factors
X = Mean of calibration factors

#	Standard ID	Calibration Date	Compound	Reported CF (250 std)	Recalculated CF (250 std)	Reported CF (initial)	Recalculated CF (intial)	Reported %RSD	Recalculated %RSD
1	ICAL	1/4/23	Aroclor 1260-1 (A)	0.0750	0.0750	0.0740	0.0740	18	18
			(B)	0.0622	0.0622	0.0624	0.0624	19	19
2									
3									
4									

Comments: Refer to Initial Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56108D3b

VALIDATION FINDINGS WORKSHEET
Continuing Calibration Results Verification

Reviewer: FT

METHOD: GC ✓ HPLC _____

The percent difference (%D) of the initial calibration average Calibration Factors (CF) and the continuing calibration CF were recalculated for the compounds identified below using the following calculation:

% Difference = 100 * (ave. CF -CF)/ave.CF

Where: ave. CF = initial calibration average CF
CF = continuing calibration CF
A = Area of compound
C = Concentration of compound

#	Standard ID	Calibration Date	Compound	Average CF(ICAL)/ CCV Conc.	Reported CF/ Conc. CCV	Recalculated CF/ Conc. CCV	Reported %D	Recalculated %D
1	CCV	2/1/23 0936	Aroclor 1260 (A)	500.0	445.33	445.33	11	11
			↓ (B)	↓	443.0	443.0	11	11
2								
3								
4								

Comments: Refer to Continuing Calibration findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56108D3b

VALIDATION FINDINGS WORKSHEET
Surrogate Results Verification

Reviewer: FT

METHOD: ✓ GC ___ HPLC

The percent recoveries (%R) of surrogates were recalculated for the compounds identified below using the following calculation:

% Recovery: SF/SS * 100

Where: SF = Surrogate Found
SS = Surrogate Spiked

Sample ID: #1

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	
TCMX	ch B	50.0	35.9738	72	72	0
DCB	↓	↓	35.2760	71	71	↓

Sample ID: _____

Surrogate	Column/Detector	Surrogate Spiked	Surrogate Found	Percent Recovery	Percent Recovery	Percent Difference
				Reported	Recalculated	

	Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound		Surrogate Compound
A	Chlorobenzene (CBZ)	G	Octacosane	M	Benzo(e)Pyrene	S	1-Chloro-3-Nitrobenzene	Y	Tetrachloro-m- xylene
B	4-Bromofluorobenzene (BFB)	H	Ortho-Terphenyl	N	Terphenyl-D14	T	3,4-Dinitrotoluene	Z	2-Bromonaphthalene
C	a,a,a-Trifluorotoluene	I	Fluorobenzene (FBZ)	O	Decachlorobiphenyl (DCB)	U	Tripentyltin	AA	Chloro-octadecane
D	Bromochlorobenene	J	n-Triacontane	P	1-methylnaphthalene	V	Tri-n-propyltin	BB	2,4-Dichlorophenylacetic acid
E	1,4-Dichlorobutane	K	Hexacosane	Q	Dichlorophenyl Acetic Acid (DCAA)	W	Tributyl Phosphate	CC	2,5-Dibromotoluene
F	1,4-Difluorobenzene (DFB)	L	Bromobenzene	R	4-Nitrophenol	X	Triphenyl Phosphate		

LDC #: 56108D3b

VALIDATION FINDINGS WORKSHEET

Laboratory Control Sample/Laboratory Control Sample Duplicates Results Verification

Reviewer: FT

METHOD: ✓ GC ___HPLC

The percent recoveries (%R) and relative percent differences (RPD) of the laboratory control sample and laboratory control sample duplicate were recalculated for the compounds identified below using the following calculation:

%Recovery = 100 * (SSC/SA)
RPD =(({SSCLCS - SSCLCSD} * 2) / (SSCLCS + SSCLCSD))*100

Where SSC = Spiked sample concentration
LCS = Laboratory Control Sample

SA = Spike added
LCSD = Laboratory Control Sample duplicate

LCS/LCSD samples: 306459 LCS/LCSD

Compound	Spike Added (ug/100xm²)		Spike Sample Concentration (ug/100 cm²)		LCS Percent Recovery		LCSD Percent Recovery		LCS/LCSD RPD	
	LCS	LCSD	LCS	LCSD	Reported	Recalc.	Reported	Recalc.	Reported	Recalc.
Aroclor 1260	5.0	5.0	3.517	4.284	70	70	86	86	20	20

Comments: Refer to Laboratory Control Sample/Laboratory Control Sample Duplicate findings worksheet for list of qualifications and associated samples when reported results do not agree within 10.0% of the recalculated results.

LDC #: 56108D3b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: FT

METHOD: ✓ GC __ HPLC

Y N N/A Were all reported results recalculated and verified for all level IV samples?
Y N N/A Were all recalculated results for detected target compounds within 10% of the reported results?

Concentration= $\frac{(A)(Fv)(Df)}{(RF)(Vs \text{ or } Ws)(\%S/100)}$

A= Area or height of the compound to be measured
Fv= Final Volume of extract
Df= Dilution Factor
RF= Average response factor of the compound In the initial calibration
Vs= Initial volume of the sample
Ws= Initial weight of the sample
%S= Percent Solid

Example:

Sample ID. 30645 9LC5 Compound Name Aroclor 1260

Concentration = $\frac{(351.73)(10)}{(1)(1000)}$ =

= 3.5173

#	Sample ID	Compound	Reported Concentrations (ug / 100 cm^2	Recalculated Results Concentrations (ug / 100 cm^2	Qualifications
	LCS	Aroclor 1260	3.517	3.5173	
	1260-1 = 15727 12.25 (20.0) / 12933 47.40 (0.0740)			1260-1 = 328.65	
				2 = 370.2	
				3 = 308.2	
		= 326.65		4 = 382.1	
				5 = 369.6	
				351.73	

Comments: _____

LDC #: 56108D4b

SDG #: 478371

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 3

Date: 3/9/23

Page: 1 of 1

Reviewer: ATV

2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A/A	
II.	Instrument Calibration	A	
III.	ICP Interference Check Sample (ICS) Analysis	SW	
IV.	Laboratory Blanks	A	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	LCS/LCSD
X.	Field Duplicates	SW	(1,2), (3,4)
XI.	Target Analyte Quantitation	A	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C3W-MED-L3-EXT-1 TO 2-230126-L-WF	478371-002	Wipe	01/26/23
2	AFRAME-C3W-MED-L3-EXT-1 TO 2-230126-L-DUP-WF	478371-003	Wipe	01/26/23
3	AFRAME-C4W-LAT-L3-EXT-1 TO 2-230126-L-WF	478371-005	Wipe	01/26/23
4	AFRAME-C4W-LAT-L3-EXT-1 TO 2-230126-L-DUP-WF	478371-006	Wipe	01/26/23
5	AFRAME-C5W-MED-L3-DN-C5.5-DG-230126-L-LA	478371-009	Wipe	01/26/23
6	AFRAME-C3W-LAT-L3-UP-C3.1-DG-230126-L-LA	478371-012	Wipe	01/26/23
7	AFRAME-C3W-MED-L3-EXT-0 TO 1-DG-230126-L-WF	478371-014	Wipe	01/26/23
8				
9				
10				
11				
12				
13				
14				
15				

Notes:

METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
I. Technical holding times				
Were all technical holding times met?	✓			
Were all water samples preserved to a pH of <2.			✓	
II. ICP-MS Tune				
Were mass resolutions within 0.1 amu for all isotopes in the tuning solution?			✓	
Were %RSDs of isoptoes in the tuning solution ≤5%?			✓	
III. Calibration				
Were all instruments calibrated daily?	✓			
Were the proper standards used?	✓			
Were all initial and continuing calibration verifications within the 90-110% (80-120% for mercury) QC limits?	✓			
Were the low level standard checks within 70-130%?			✓	not provided / reported
Were all initial calibration correlation coefficients within limits as specifed by the method?	✓			
IV. Blanks				
Was a method blank associated with every sample in this SDG?	✓			
Was there contamination in the method blanks?		✓		
Was there contamination in the initial and continuing calibration blanks?		✓		
V. Interference Check Sample				
Were the interference check samples performed daily?	✓			
Were the AB solution recoveries within 80-120%?	✓			
VI. Matrix Spike/Matrix Spike Duplicates/Laboratory Duplicates				
Were MS/MSD recoveries within the QC limits? (If the sample concentration exceeded the spike concentration by a factor of 4, no action was taken.)			✓	
Were the MS/MSD or laboratory duplicate relative percent differences (RPDs) within the QC limits?			✓	
VII. Laboratory Control Samples				
SDG?	✓			

Were the LCS recoveries and RPDs (if applicable) within QC limits?	✓			
METHOD: Trace Metals (EPA SW 846 Methods 6010/6020/7000)				
Validation Area	**Yes**	**No**	**NA**	**Comments**
VIII. Internal Standards				
Were all percent recoveries within the 30-120% (60-125% for EPA Method 200.8) QC limits?			✓	
If the recoveries were outside the limits, was a reanalysis performed?			✓	
IX. Serial Dilution				
Were all percent differences <10%?			✓	
Was there evidence of negative interference? If yes, professional judgement will be used to qualify the data.			✓	
X. Target Analyte Quantitation				
Were all reporting limits adjusted to reflect sample dilutions?	✓			
Were all soil samples dry weight corrected?			✓	
XI. Overall Assessment of Data				
Was the overall assessment of the data found to be acceptable?	✓			
XII. Field Duplicates				
Were field duplicates identifed in this SDG?	✓			
Were target analytes detected in the field duplicates?	✓			
XIII. Field Blanks				
Were field blanks identified in this SDG?		✓		
Were target analytes detected in the field blanks?			✓	

LDC #: 56108D4b

VALIDATION FINDINGS WORKSHEET
ICP Interference Check Sample

Reviewer: ATL

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y) N N/A Were ICP interference check samples performed as required?

(Y) N N/A Were the AB solution percent recoveries (%R) within the control limits of 80-120% ?

LEVEL IV ONLY:

(Y) N N/A Were recalculated results acceptable? See Level IV Recalculation Worksheet for recalculations.

#	Date	ICS Identification	Analyte	Finding	Associated Samples	Qualifications
	01/30/23	ICSA (13:59)	Pb	0.01370 (≤ 0.003333)	all	no qual (sample interferents < ICSA)

Comments:

LDC#: 56108D4b

VALIDATION FINDINGS WORKSHEET
Field Duplicates

METHOD: Metals (EPA Method 6010/6020/7000/200.7/200.8)

Analyte	Concentration (ug/ft2)		RPD (≤ 50%)	
	1	2		
Lead	160	180	12	

\\LDCFILESERVER\Validation\FIELD DUPLICATES\Field Duplicates\FD_inorganic\2023\56108D4b.wpd

Analyte	Concentration (ug/ft2)		RPD (≤ 50%)	
	3	4		
Lead	160	150	6	

LDC #: 56108D4b

VALIDATION FINDINGS WORKSHEET
Initial and Continuing Calibration Calculation Verification

Reviewer: ATL

METHOD: Trace metals (EPA SW 846 Method 6010/6020/7000)

An initial and continuing calibration verification percent recovery (%R) was recalculated for each type of analysis using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = concentration (in ug/L) of each analyte measured in the analysis of the ICV or CCV solution
True = concentration (in ug/L) of each analyte in the ICV or CCV source

Standard ID	Type of Analysis	Element	Found (~~ug/L~~ mg/L)	True (~~ug/L~~ mg/L)	Recalculated %R	Reported %R	Acceptable (Y/N)
	ICP (Low Level calibration)						
	ICP/MS (Low Level calibration)						
ICV	ICP (Initial calibration)	Pb	1.04673	1.000	105	105	Y
	ICP/MS (Initial calibration)						
	CVAA (Initial calibration)						
CCV	ICP (Continuing calibration) 11/30 @ 20:18	Pb	1.06895	1.000	107	107	Y
	ICP/MS (Continuing calibration)						
	CVAA (Continuing calibration)						

ICP-MS TUNE	Calculation	Mass	Actual (Mean Counts / Axis)	Required (Counts / Axis)	Recalculated %RSD	Acceptable (Y/N)
	Mass Axis			± 0.1 AMU	NA	
	%RSD			≤ 5% RSD		

Comments:

LDC #: SG108D4b

VALIDATION FINDINGS WORKSHEET
Level IV Recalculation Worksheet

Reviewer: ATV

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Percent recoveries (%R) for an ICP interference check sample, a laboratory control sample and a matrix spike sample were recalculated using the following formula:

$\%R = \frac{Found}{True} \times 100$ Where, Found = Concentration of each analyte measured in the analysis of the sample. For the matrix spike calculation, Found = SSR (spiked sample result) - SR (sample result).
True = Concentration of each analyte in the source.

A sample and duplicate relative percent difference (RPD) was recalculated using the following formula:

$RPD = \frac{|S-D|}{(S+D)/2} \times 100$ Where, S = Original sample concentration
D = Duplicate sample concentration

An ICP serial dilution percent difference (%D) was recalculated using the following formula:

$\%D = \frac{|I-SDR|}{I} \times 100$ Where, I = Initial Sample Result (mg/L)
SDR = Serial Dilution Result (mg/L) (Instrument Reading x 5)

Sample ID	Type of Analysis	Element	Found / S / I (ug/kg) (units)	True / D / SDR (ug/kg) (units)	Recalculated %R / RPD / %D	Reported %R / RPD / %D	Acceptable (Y/N)
ICSAB	ICP interference check	Pb	1.05725 mg/L	1.000 mg/L	106	106	Y
LCS	Laboratory control sample	Pb	52.929	50.00	106	106	Y
	Matrix spike		(SSR-SR)				
	Duplicate						
	Post digestion spike						
	ICP serial dilution						

Comments: _____

LDC #: 56108D4b

VALIDATION FINDINGS WORKSHEET
Sample Calculation Verification

Reviewer: ATV

METHOD: Trace Metals (EPA SW 846 Method 6010/6020/7000)

Please see qualifications below for all questions answered "N". Not applicable questions are identified as "N/A".

(Y)N N/A Have results been reported and calculated correctly?
(Y)N N/A Are results within the calibrated range of the instruments and within the linear range of the ICP?
(Y)N N/A Are all detection limits below the CRDL?

Detected analyte results for Pb were recalculated and verified using the following equation:

Concentration = $\frac{(RD)(FV)(Dil)}{(In.\ Vol.)}$

RD = Raw data concentration
FV = Final volume (ml)
In. Vol. = Initial volume (ml) or weight (G)
Dil = Dilution factor

Recalculation: #3

$3.29897 \times 50 = 164.949$

#	Sample ID	Analyte	Reported Concentration ug/L	Calculated Concentration ug/L	Acceptable (Y/N)
	1	Pb	160	156.243	Y
	2	Pb	180	178.504	Y
	3	Pb	160	164.949	Y
	4	Pb	150	150.008	Y
	5	Pb	260	255.587	Y
	6	Pb	400	395.380	Y
	7	Pb	220	224.667	Y

Note:

Quality Control
Outlier Reports

478373

Field Duplicate RPD Report

Lab Reporting Batch ID: 478373 **Laboratory: Enthalpy Orange**

EDD Filename: Prep478373 **eQAPP Name:**

Method: 6010B
Matrix: WIPE

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	AFRAME-C5W-LAT-L1-EXT-1 TO 2-230127-	AFRAME-C5W-LAT-L1-EXT-1 TO 2-230127-L-			
LEAD	1800	1900	5	100.00	No Qualifiers Applied

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	AFRAME-C5W-LAT-L2-INT-0 TO 1-230127-	AFRAME-C5W-LAT-L2-INT-0 TO 1-230127-L-			
LEAD	73	71	3	100.00	No Qualifiers Applied

Field Blank Contamination Report

Lab Reporting Batch ID: 478373

Laboratory: Enthalpy Orange

EDD Filename: Prep478373

Moffett_Hangar_1_NTCRA_Enthalpy_220609

Method: 6010B
Matrix: WIPE

Analyte	*Sample*	*Concentration (ug/ft2)*	*Flag*
LEAD	230127-L-MEDBLANK2	6.2	No Qualifiers Applied

LDC #: 56108E3b
SDG #: 478373
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 2A

Date: 3/10/23
Page: __ of __
Reviewer: BM
2nd Reviewer: _____

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Initial calibration/ICV	N/N	
III.	Continuing calibration	N	
IV.	Laboratory Blanks	ND	
V.	Field blanks	ND	FB=32
VI.	Surrogate spikes	A	
VII.	Matrix spike/Matrix spike duplicates	N	
VIII.	Laboratory control samples	A	
IX.	Field duplicates	ND	FD=4/3, 11/18
X.	Target analyte quantitation	N	
XI.	Target analyte identification	N	
XII	Overall assessment of data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C3W-MED-L2-UP-C3.3-DG-230127-P-LA	478373-001	Wipe	01/27/23
2	AFRAME-C5W-MED-L2-UP-C5.2-DG-230127-P-LA	478373-003	Wipe	01/27/23
3	AFRAME-C3W-MED-L2-DN-C3.4-DG-230127-P-LA	478373-005	Wipe	01/27/23
4	AFRAME-C3W-MED-L2-DN-3.47-DG-230127-P-DUP-LA	478373-006	Wipe	01/27/23
5	AFRAME-C4W-MED-L2-INT-0 TO 1-230127-P-FB	478373-008	Wipe	01/27/23
6	AFRAME-C5W-LAT-L2-INT-0 TO 1-230127-P-FB	478373-010	Wipe	01/27/23
7	AFRAME-C5W-LAT-L2-DN-C5.7-VS-230127-P-I	478373-013	Wipe	01/27/23
8	AFRAME-C5W-MED-L2-DN-C5.3-DG-230127-P-LA	478373-015	Wipe	01/27/23
9	AFRAME-C3W-MED-L1-INT-2 TO 3-DG-230127-P-FB	478373-017	Wipe	01/27/23
10	AFRAME-C3W-MED-L1-UP-C3.1-VS-230127-P-LA	478373-019	Wipe	01/27/23
11	AFRAME-C4W-MED-L1-EXT-2 TO 3-VS-230127-P-WF	478373-021	Wipe	01/27/23
12	AFRAME-C5W-MED-L1-UP-C5.1-DG-230127-P-SS	478373-023	Wipe	01/27/23
13	AFRAME-C5W-LAT-L1-UP-C5.6-DG-230127-P-CB	478373-025	Wipe	01/27/23
14	AFRAME-C3W-LAT-L1-HS-3-23027-P-A	478373-027	Wipe	01/27/23
15	AFRAME-C3W-MED-L1-HS-3-230127-P-G	478373-029	Wipe	01/27/23
16	AFRAME-C3W-MED-L1-UP-C3.6-DG-230127-P-SS	478373-031	Wipe	01/27/23
17	AFRAME-C3W-LAT-L1-UP-C3.1-VS-230127-P-I	478373-033	Wipe	01/27/23

LDC #: 56108E3b

SDG #: 478373

Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date:

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Reviewer:

2nd Reviewer:

METHOD: GC Polychlorinated Biphenyls (EPA SW-846 Method 8082)

	Client ID	Lab ID	Matrix	Date
18	AFRAME-C4W-EXT-L1-HS-3-230127-P-A	478373-035	Wipe	01/27/23
19	AFRAME-C4W-EXT-L1-HS-3-230127-P-DUP-A	478373-036	Wipe	01/27/23
20	AFRAME-C5W-MED-L1-HS-3-230127-P-A	478373-038	Wipe	01/27/23
21	AFRAME-C5W-LAT-L1-UP-C5.1-VS-230127-P-I	478373-040	Wipe	01/27/23
22	AFRAME-C3W-MED-L1-EXT-1 TO 2-230127-P-WF	478373-042	Wipe	01/27/23
23	AFRAME-C3W-LAT-L1-UP-C3.7-HS-230127-P-LA	478373-044	Wipe	01/27/23
24	AFRAME-C4W-LAT-L1-INT-1 TO 2-230127-P-FB	478373-046	Wipe	01/27/23
25	AFRAME-C5W-LAT-L1-EXT-1 TO 2-230127-P-WF	478373-048	Wipe	01/27/23
26	AFRAME-C5W-LAT-L1-DN-C5W-DG-230127-P-CB	478373-051	Wipe	01/27/23
27	AFRAME-C3W-LAT-L1-INT-0 TO 1-DG-230127-P-FB	478373-053	Wipe	01/27/23
28	AFRAME-C3W-MED-L1-DN-C3W-DG-230127-P-SS	478373-055	Wipe	01/27/23
29	AFRAME-C3W-LAT-L1-DN-C3W-DG-230127-P-CB	478373-057	Wipe	01/27/23
30	AFRAME-C5W-MED-L1-INT-1 TO 2-DG-230127-P-FB	478373-059	Wipe	01/27/23
31	AFRAME-C5W-MED-L1-DN-C5W-DG-230127-P-SS	478373-061	Wipe	01/27/23
32	230127-P-MEDBLANK2	478373-063	Wipe	01/27/23
33				
34				
35				

Notes:

LDC #: 56108E4b **VALIDATION COMPLETENESS WORKSHEET** Date: 3/10/23
SDG #: 478373 Stage 2A Page: of
Laboratory: Enthalpy Analytical, Orange, CA Reviewer:
2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	ND	
V.	Field Blanks	SW	FB=32
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	SW	FD= 6/5, 25/24
XI.	Target Analyte Quantitation	N	
XII.	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C3W-MED-L2-UP-C3.3-DG-230127-L-LA	478373-002	Wipe	01/27/23
2	AFRAME-C5W-MED-L2-UP-C5.2-DG-230127-L-LA	478373-004	Wipe	01/27/23
3	AFRAME-C3W-MED-L2-DN-C3.4-DG-230127-L-LA	478373-007	Wipe	01/27/23
4	AFRAME-C4W-MED-L2-INT-0 TO 1-230127-L-FB	478373-009	Wipe	01/27/23
5	AFRAME-C5W-LAT-L2-INT-0 TO 1-230127-L-FB	478373-011	Wipe	01/27/23
6	AFRAME-C5W-LAT-L2-INT-0 TO 1-230127-L-DUP-FB	478373-012	Wipe	01/27/23
7	AFRAME-C5W-LAT-L2-DN-C5.7-VS-230127-L-I	478373-014	Wipe	01/27/23
8	AFRAME-C5W-MED-L2-DN-C5.3-DG-230127-L-LA	478373-016	Wipe	01/27/23
9	AFRAME-C3W-MED-L1-INT-2 TO 3-DG-230127-L-FB	478373-018	Wipe	01/27/23
10	AFRAME-C3W-MED-L1-UP-C3.1-VS-230127-L-LA	478373-020	Wipe	01/27/23
11	AFRAME-C4W-MED-L1-EXT-2 TO 3-VS-230127-L-WF	478373-022	Wipe	01/27/23
12	AFRAME-C5W-MED-L1-UP-C5.1-DG-230127-L-SS	478373-024	Wipe	01/27/23
13	AFRAME-C5W-LAT-L1-UP-C5.6-DG-230127-L-CB	478373-026	Wipe	01/27/23
14	AFRAME-C3W-LAT-L1-HS-3-23027-L-A	478373-028	Wipe	01/27/23
15	AFRAME-C3W-MED-L1-HS-3-230127-L-G	478373-030	Wipe	01/27/23
16	AFRAME-C3W-MED-L1-UP-C3.6-DG-230127-L-SS	478373-032	Wipe	01/27/23
17	AFRAME-C3W-LAT-L1-UP-C3.1-VS-230127-L-I	478373-034	Wipe	01/27/23

LDC #: 56108E4b

VALIDATION COMPLETENESS WORKSHEET

Stage 2A

Date:

SDG #: 478373

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Laboratory: Enthalpy Analytical, Orange, CA

Reviewer:

2nd Reviewer:

METHOD: Lead (EPA SW-846 Method 6010B)

	Client ID	Lab ID	Matrix	Date
18	AFRAME-C4W-EXT-L1-HS-3-230127-L-LA	478373-037	Wipe	01/27/23
19	AFRAME-C5W-MED-L1-HS-3-230127-L-A	478373-039	Wipe	01/27/23
20	AFRAME-C5W-LAT-L1-UP-C5.1-VS-230127-L-I	478373-041	Wipe	01/27/23
21	AFRAME-C3W-MED-L1-EXT-1 TO 2-230127-L-WF	478373-043	Wipe	01/27/23
22	AFRAME-C3W-LAT-L1-UP-C3.7-HS-230127-L-LA	478373-045	Wipe	01/27/23
23	AFRAME-C4W-LAT-L1-INT-1 TO 2-230127-L-FB	478373-047	Wipe	01/27/23
24	AFRAME-C5W-LAT-L1-EXT-1 TO 2-230127-L-WF	478373-049	Wipe	01/27/23
25	AFRAME-C5W-LAT-L1-EXT-1 TO 2-230127-L-DUP-WF	478373-050	Wipe	01/27/23
26	AFRAME-C5W-LAT-L1-DN-C5W-DG-230127-L-CB	478373-052	Wipe	01/27/23
27	AFRAME-C3W-LAT-L1-INT-0 TO 1-DG-230127-L-FB	478373-054	Wipe	01/27/23
28	AFRAME-C3W-MED-L1-DN-C3W-DG-230127-L-SS	478373-056	Wipe	01/27/23
29	AFRAME-C3W-LAT-L1-DN-C3W-DG-230127-L-CB	478373-058	Wipe	01/27/23
30	AFRAME-C5W-MED-L1-INT-1 TO 2-DG-230127-L-FB	478373-060	Wipe	01/27/23
31	AFRAME-C5W-MED-L1-DN-C5W-DG-230127-L-SS	478373-062	Wipe	01/27/23
32	230127-L-MEDBLANK2	478373-064	Wipe	01/27/23
33				
34				
35				
36				

Notes:

Quality Control
Outlier Reports

478913

Field Duplicate RPD Report

Lab Reporting Batch ID: 478913 **Laboratory: Enthalpy Orange**

EDD Filename: Prep478913 **eQAPP Name:**

Method: 6010B
Matrix: WIPE

Analyte	*Concentration (ug/ft2)*		*Sample RPD*	*eQAPP RPD*	*Flag*
	AFRAME-C3W-MED-L1-EXT-1 TO 2-230204-	AFRAME-C5W-LAT-L1-EXT-1 TO 2-230204-L-			
LEAD	7.8	24	102	100.00	No Qualifiers Applied

Project Name and Number: 20-10491 - Hangar 1 NTCRA

LDC #: 56108F4b
SDG #: 478913
Laboratory: Enthalpy Analytical, Orange, CA

VALIDATION COMPLETENESS WORKSHEET
Stage 2A

Date: 3/10/23
Page: ___ of ___
Reviewer: BM
2nd Reviewer: ___

METHOD: Lead (EPA SW-846 Method 6010B)

The samples listed below were reviewed for each of the following validation areas. Validation findings are noted in attached validation findings worksheets.

	Validation Area		Comments
I.	Sample receipt/Technical holding times	A / A	
II.	Instrument Calibration	N	
III.	ICP Interference Check Sample (ICS) Analysis	N	
IV.	Laboratory Blanks	ND	
V.	Field Blanks	N	
VI.	Matrix Spike/Matrix Spike Duplicates	N	
VII.	Duplicate sample analysis	N	
VIII.	Serial Dilution	N	
IX.	Laboratory control samples	A	
X.	Field Duplicates	SW	FD= 10/9
XI.	Target Analyte Quantitation	N	
XII	Overall Assessment of Data	A	

Note: A = Acceptable; N = Not provided/applicable; SW = See worksheet; ND = No compounds detected; R = Rinsate; FB = Field blank; D = Duplicate; TB = Trip blank; EB = Equipment blank; SB=Source blank; OTHER:

	Client ID	Lab ID	Matrix	Date
1	AFRAME-C3W-MED-L1-HS-3-230204-L-G	478913-001	Wipe	02/04/23
2	AFRAME-C3W-LAT-L1-UP-C3.1-VS-230204-L-I	478913-002	Wipe	02/04/23
3	AFRAME-C4W-LAT-L1-HS-3-230204-L-A	478913-003	Wipe	02/04/23
4	AFRAME-C5W-MED-L1-HS-3-230204-L-A	478913-004	Wipe	02/04/23
5	AFRAME-C5W-LAT-L1-UP-C5.1-VS-230204-L-I	478913-005	Wipe	02/04/23
6	AFRAME-C3W-MED-L1-EXT-1 TO 2-230204-L-WF	478913-006	Wipe	02/04/23
7	AFRAME-C3W-LAT-L1-UP-C3.7-HS-230204-L-LA	478913-007	Wipe	02/04/23
8	AFRAME-C4W-LAT-L1-INT-1 TO 2-230204-L-FB	478913-008	Wipe	02/04/23
9	AFRAME-C5W-LAT-L1-EXT-1 TO 2-230204-L-WF	478913-009	Wipe	02/04/23
10	AFRAME-C5W-LAT-L1-EXT-1 TO 2-230204-L-DUP-WF	478913-010	Wipe	02/04/23
11	AFRAME-C5W-LAT-L1-DN-C5W-DG-230204-L-CB	478913-011	Wipe	02/04/23
12	AFRAME-C3W-LAT-L1-INT-0 TO 1-230204-L-FB	478913-012	Wipe	02/04/23
13	AFRAME-C3W-MED-L1-DN-C3W-DG-230204-L-SS	478913-013	Wipe	02/04/23
14	AFRAME-C3W-LAT-L1-DN-C3W-DG-230204-L-CB	478913-014	Wipe	02/04/23
15	AFRAME-C5W-MED-L1-DN-C5W-DG-230204-L-SS	478913-015	Wipe	02/04/23
16				

Notes: ___

Attachment 6

Clearance Sampling Summary and Laboratory Reports

Clearance Wipe Sampling Results - Zone 3

Hangar 1 NTCRA

Former Naval Air Station Moffett Field, California

				Lead	PCBs								
				Result	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Location ID [a]	Sample Date	Zone	Enclosure	µg/ft²	Concentration - µg/100 cm²								
			Clearance Goal	<250	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10
CLEAR-ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-230103-LA	1/3/2023	3	C/D	58	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EC-L26-230103	1/3/2023	3	C/D	110	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EC-L26-230103	1/3/2023	3	C/D	48	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C4W-INT-2.5 TO 3.5-230103-WF	1/3/2023	3	C/D	210	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C4W-INT-2.5 TO 3.5-230103-DUP-WF	1/3/2023	3	C/D	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EC-L23-230103	1/3/2023	3	C/D	820	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EC-L23-230103	1/3/2023	3	C/D	42	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C4W-EXT-4 TO 5-230103-WF	1/3/2023	3	C/D	120	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EC-L20-230103	1/3/2023	3	C/D	240	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EC-L20-230103-DUP	1/3/2023	3	C/D	400	--	--	--	--	--	--	--	--	--
CLEAR-ENC-Z3EC-L20-230103	1/3/2023	3	C/D	160	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-230106-LA	1/6/2023	3	C/D	1000	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EC-L17-230106	1/6/2023	3	C/D	74	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EC-L17-230105	1/5/2023	3	C/D	40 b	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C5W-DG-5.5 TO 6-230105-FB	1/5/2023	3	C/D	130 b	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EC-L15-230105	1/5/2023	3	C/D	280 b	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EC-L15-230105	1/5/2023	3	C/D	17 b	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C4W-DG-7 TO 7.5-230209-FB	2/9/2023	3	C/D	3.7	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C4W-DG-7 TO 7.5-230209-DUP-FB	2/9/2023	3	C/D	11	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z3ED-L10-230209	2/9/2023	3	C/D	50	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3ED-L10-230209	2/9/2023	3	C/D	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230209-LA	2/9/2023	3	C/D	28	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3ED-L8-230209	2/9/2023	3	C/D	64	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3ED-L8-230209	2/9/2023	3	C/D	13	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3ED-L8-230209-DUP	2/9/2023	3	C/D	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-AFRAME-C5W-MED-L3-DN-C5.3-DG-230209-LA	2/9/2023	3	C/D	10	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3ED-L5-230209	2/9/2023	3	C/D	60	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3ED-L5-230209	2/9/2023	3	C/D	5.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-AFRAME-C4W-MED-L1-EXT-2 TO 3-230209-WF	2/9/2023	3	C/D	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3ED-L3-230209	2/9/2023	3	C/D	56	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3ED-L3-230209	2/9/2023	3	C/D	73	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-AFRAME-C5W-LAT-L1-DN-C5W-DG-230209-CB	2/9/2023	3	C/D	4.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3ED-L1-230209	2/9/2023	3	C/D	29	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3ED-L1-230209	2/9/2023	3	C/D	12	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-MEDBLANK-230103 [c]	1/3/2023	3	C/D	1.8	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-MEDBLANK-230209 [c]	2/9/2023	3	C/D	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Average Clearance Results: Zone 3 Enclosure C/D [b]				129	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230418-LA	4/18/2023	3	A/B	43	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
CLEAR-ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230418-DUP	4/18/2023	3	A/B	36	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z3EAB-L24-230418	4/18/2023	3	A/B	300	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L24-230418	4/18/2023	3	A/B	99	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230418-LA	4/18/2023	3	A/B	54	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46	<0.46
CLEAR-SCAF-Z3EAB-L20-230418	4/18/2023	3	A/B	150	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L20-230418	4/18/2023	3	A/B	25	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L20-230418-DUP	4/18/2023	3	A/B	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C4E-DG-4.5 TO 5-230418-FB	4/18/2023	3	A/B	16	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EAB-L18-230418	4/18/2023	3	A/B	690	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L18-230418	4/18/2023	3	A/B	24	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C5E-DG-6 TO 6.5-230427-FB	4/27/2023	3	A/B	33	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

				Lead	PCBs								
				Result	Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
Location ID [a]	Sample Date	Zone	Enclosure	µg/ft²	Concentration - µg/100 cm²								
Clearance Goal				<250	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10	≤10
CLEAR-SCAF-Z3EAB-L14-230427	4/27/2023	3	A/B	**340**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L14-230427	4/27/2023	3	A/B	**42**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230427-LA	4/27/2023	3	A/B	**38**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EAB-L13-230427	4/27/2023	3	A/B	**140**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L13-230427	4/27/2023	3	A/B	**71**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230427-LA	4/27/2023	3	A/B	**92**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EAB-L11-230427	4/27/2023	3	A/B	**73**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L11-230427	4/27/2023	3	A/B	**39**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ARCH-C3E-DG-7. TO 9-UP-C3.3-VS-230427-LA	4/27/2023	3	A/B	**17**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EAB-L9-230427	4/27/2023	3	A/B	**180**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L9-230427	4/27/2023	3	A/B	**34**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-AFRAME-C5E-LAT-L3-DN-C5.3-DG-230427-LA	4/27/2023	3	A/B	**66**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EAB-L6-230427	4/27/2023	3	A/B	**61**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L6-230427	4/27/2023	3	A/B	**10**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L6-230427-DUP	4/27/2023	3	A/B	--	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-AFRAME-C3E-LAT-L2-DN-C3.4-DG-230427-LA	4/27/2023	3	A/B	**53**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-AFRAME-C3E-LAT-L2-DN-C3.4-DG-230427-LA-DUP	4/27/2023	3	A/B	**23**	--	--	--	--	--	--	--	--	--
CLEAR-SCAF-Z3EAB-L4-230427	4/27/2023	3	A/B	**60**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L4-230427	4/27/2023	3	A/B	**11**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-SCAF-Z3EAB-L2-230427	4/27/2023	3	A/B	<4.5 U	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-ENC-Z3EAB-L2-230427	4/27/2023	3	A/B	<3.7 U	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-AFRAME-C3E-LAT-L1-HS-3-230427-A	4/27/2023	3	A/B	**15**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-MEDBLANK-230418 [c]	4/18/2023	3	A/B	**1.4**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
CLEAR-MEDBLANK-230427 [c]	4/27/2023	3	A/B	**1.8**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5
Average Clearance Results: Zone 3 Enclosure A/B [b]				**99**	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5

Acronyms and Abbreviations:

b: High recovery in an ICS for lead in the presence of high concentrations of aluminum. Data quality was not affected by this detection.
ICS: Interference Check Standard
NTCRA: Non-Time-Critical Removal Action
PCBs: polychlorinated biphenyls
µg/100 cm^2: micrograms per 100 square centimeters
µg/ft^2: micrograms per square foot
U: Indicates that the compound or analyte was analyzed for but not detected.

Notes:

[a] Location ID corresponds to the Field ID in the Laboratory Analytical Reports.
[b] Media blank results and the lower of the duplicate clearnace wipe sampling results were not used to calculate the average concentrations within each enclosure. Because PCBs were not reported above the laboratory analytical reporting limits in any of the clearance wipe samples, the values presented for the PCBs are the maximum of the analytical reporting limits for each Aroclor.
[c] Media blank samples are referred to as field blank samples in the Zone 3 Low Occupancy Data Summary Submittal Report because they were collected within the enclosure and more accurately represent ambient enclosure conditions during sampling rather than impacts to the sampling media itself.
Bolded values indicate constituents detected above laboratory reporting limits.
Shaded values indicate constituents detected above Clearance Goal.
"--" Not analyzed

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

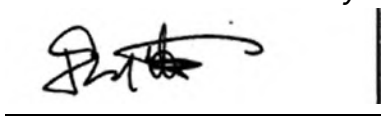
Lab Job Number:	483541
Report Level:	II
Report Date:	04/26/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	483541
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	04/18/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230418-P-LA	483541-001	04/18/23 12:20	Wipe
CLEAR-ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230418-L-LA	483541-002	04/18/23 12:20	Wipe
CLEAR-ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230418-L-DUP	483541-003	04/18/23 12:20	Wipe
CLEAR-SCAF-Z3EAB-L24-230418-P	483541-004	04/18/23 12:30	Wipe
CLEAR-SCAF-Z3EAB-L24-230418-L	483541-005	04/18/23 12:30	Wipe
CLEAR-ENC-Z3EAB-L24-230418-P	483541-006	04/18/23 12:40	Wipe
CLEAR-ENC-Z3EAB-L24-230418-L	483541-007	04/18/23 12:40	Wipe
CLEAR-ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230418-P-LA	483541-008	04/18/23 13:15	Wipe
CLEAR-ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230418-L-LA	483541-009	04/18/23 13:15	Wipe
CLEAR-SCAF-Z3EAB-L20-230418-P	483541-010	04/18/23 13:25	Wipe
CLEAR-SCAF-Z3EAB-L20-230418-L	483541-011	04/18/23 13:25	Wipe
CLEAR-ENC-Z3EAB-L20-230418-P	483541-012	04/18/23 13:35	Wipe
CLEAR-ENC-Z3EAB-L20-230418-P-DUP	483541-013	04/18/23 13:35	Wipe
CLEAR-ENC-Z3EAB-L20-230418-L	483541-014	04/18/23 13:35	Wipe
CLEAR-ARCH-C4E-DG-4.5 TO 5-230418-P-FB	483541-015	04/18/23 13:50	Wipe
CLEAR-ARCH-C4E-DG-4.5 TO 5-230418-L-FB	483541-016	04/18/23 13:50	Wipe
CLEAR-SCAF-Z3EAB-L18-230418-P	483541-017	04/18/23 14:00	Wipe
CLEAR-SCAF-Z3EAB-L18-230418-L	483541-018	04/18/23 14:00	Wipe
CLEAR-ENC-Z3EAB-L18-230418-P	483541-019	04/18/23 14:10	Wipe

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	483541
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	04/18/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ENC-Z3EAB-L18-230418-L	483541-020	04/18/23 14:10	Wipe
CLEAR-MEDBLANK-230418-P	483541-021	04/18/23 13:45	Wipe
CLEAR-MEDBLANK-230418-L	483541-022	04/18/23 13:45	Wipe

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Austin Moore	Lab Job Number: 483541 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 04/18/23

This data package contains sample and QC results for twenty two wipe samples, requested for the above referenced project on 04/19/23. The samples were received cold and intact.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

483541

ENTHALPY ANALYTICAL

Chain of Custody Record COC ID:

Page: 1 of 4

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	M. Kim & D. Welsh

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
1	CLEAR-ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230418-P-LA	4/18/2023	1220	WP	1		X		
2	CLEAR-ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230418-L-LA	4/18/2023	1220	WP	1			X	
3	CLEAR-ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230418-L-DUP-LA	4/18/2023	1220	WP	1			X	
4	CLEAR-SCAF-Z3EAB-L24-230418-P	4/18/2023	1230	WP	1		X		
5	CLEAR-SCAF-Z3EAB-L24-230418-L	4/18/2023	1230	WP	1			X	
6	CLEAR-ENC-Z3EAB-L24-230418-P	4/18/2023	1240	WP	1		X		
7	CLEAR-ENC-Z3EAB-L24-230418-L	4/18/2023	1240	WP	1			X	
8	CLEAR-ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230418-P-LA	4/18/2023	1315	WP	1		X		
9	CLEAR-ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230418-L-LA	4/18/2023	1315	WP	1			X	
10	CLEAR-SCAF-Z3EAB-L24-230418-P	4/18/2023	1325	WP	1		X		
11	CLEAR-SCAF-Z3EAB-L24-230418-L	4/18/2023	1325	WP	1			X	
12	CLEAR-ENC-Z3EAB-L24-230418-P	4/18/2023	1335	WP	1		X		
13	CLEAR-ENC-Z3EAB-L24-230418-P-DUP	4/18/2023	1335	WP	1		X		
14	CLEAR-ENC-Z3EAB-L24-230418-L	4/18/2023	1335	WP	1			X	
15	CLEAR-ARCH-C4E-DG-4.5 TO 5-230418-P-FB	4/18/2023	1350	WP	1		X		

Analysis Request

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm² basis

Report lead concentrations on a µg/ft² basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

1x Rivet Type 2 = 9.273cm²
2x Rivet Type 2 = 0.020ft²
2x Rivet Type 2 = 0.020ft²

1x Rivet Type 2 = 9.273cm²
4x Rivet Type 2 = 0.040ft²

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michaela Kim	Rincon/ENV Scientist	4/18/23 @ 1445
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	4/18/23 14:45
2 Relinquished By:	Audrey Hudson	"	"	4/18/23 17:00
2 Received By:		Maceen Ll Kim	RA	4/19/23 17:00
3 Relinquished By:		LISA FAY	RA	4/19/23 17:32
3 Received By:		Genita		4/19/2023 10:20a

48354

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Chain of Custody Record COC ID:

Page: 2 of 4

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	
			X (Pb)		

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	M. Kim & D. Welsh

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation
Report PCB concentrations on a µg/100cm² basis
Report lead concentrations on a µg/ft² basis
Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
16	CLEAR-ARCH-C4E-DG-4 5 TO 5-230418-L-FB	4/18/2023	1350	WP	1			X	
17	CLEAR-SCAF-Z3EAB-L18-230418-P	4/18/2023	1400	WP	1		X		
18	CLEAR-SCAF-Z3EAB-L18-230418-L	4/18/2023	1400	WP	1			X	
19	CLEAR-ENC-Z3EAB-L18-230418-P	4/18/2023	1410	WP	1		X		
20	CLEAR-ENC-Z3EAB-L18-230418-L	4/18/2023	1410	WP	1			X	
21	~~CLEAR-ARCH-C5E-DG-6 TO 6.5-230418-P-FB~~	~~4/18/2023~~		~~WP~~	1		X		
22	~~CLEAR-ARCH-C5E-DG-6 TO 6.5-230418-L-FB~~	4/18/2023		WP	1			X	
23	~~CLEAR-SCAF-Z3EAB-L15-230418-P~~	~~4/18/2023~~		WP	1		X		
24	~~CLEAR-SCAF-Z3EAB-L15-230418-L~~	~~4/18/2023~~		WP	1			X	
25	CLEAR-ENC-Z3EAB-L15-230418-P	4/18/2023		WP	1		X		
26	~~CLEAR-ENC-Z3EAB-L15-230418-L~~	~~4/18/2023~~		WP	1			X	
27	CLEAR-ARCH-C3E-PS-6.5-230418-P-G	4/18/2023		WP	1		X		
28	~~CLEAR-ARCH-C3E-PS-6.5-230418-L-G~~	~~4/18/2023~~		WP	1			X	
29	CLEAR-SCAF-Z3EAB-L12-230418-P	4/18/2023		WP	1		X		
30	CLEAR-SCAF-Z3EAB-L12-230418-L	4/18/2023		WP	1			X	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Michaela Kim	Rincon/Env Scientist	4/18/23 1445
[1] Received By:	Audrey Hudson	Audrey Hudson	ENTHALPY	4/18/23 14:45
[2] Relinquished By:	Audrey Hudson	Audrey Hudson	ENTHALPY	4/18/23 17:00
[2] Received By:		Marcenelli Yap	EA	4/18/23 17:32
[3] Relinquished By:			EA	4/19/23 09:00 am
[3] Received By:				10:20 am

48354 |

ENTHALPY ANALYTICAL

Chain of Custody Record
COC ID:

Page: 3 of 4

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

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931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	M.Kim & D.Welsh

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation
Report PCB concentrations on a µg/100cm² basis
Report lead concentrations on a µg/ft² basis
Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
31	CLEAR-ENC-Z3EAB-L12-230418-P	4/18/2023		WP	1		X		
32	CLEAR-ENC-Z3EAB-L12-230418-L	4/18/2023		WP	1			X	
33	CLEAR-ARCH-C3E-EXT-7 TO 8-230418-P-WF	4/18/2023		WP	1		X		
34	CLEAR-ARCH-C3E-EXT-7 TO 8-230418-L-WF	4/18/2023		WP	1			X	
35	CLEAR-SCAF-Z3EAB-L10-230418-P	4/18/2023		WP	1		X		
36	CLEAR-SCAF-Z3EAB-L10-230418-L	4/18/2023		WP	1			X	
37	CLEAR-ENC-Z3EAB-L10-230418-P	4/18/2023		WP	1		X		
38	CLEAR-ENC-Z3EAB-L10-230418-L	4/18/2023		WP	1			X	
39	CLEAR-ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230418-P-LA	4/18/2023		WP	1		X		
40	CLEAR-ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230418-L-LA	4/18/2023		WP	1			X	
41	CLEAR-SCAF-Z3EAB-L9-230418-P	4/18/2023		WP	1		X		
42	CLEAR-SCAF-Z3EAB-L9-230418-L	4/18/2023		WP	1			X	
43	CLEAR-ENC-Z3EAB-L9-230418-P	4/18/2023		WP	1		X		
44	CLEAR-ENC-Z3EAB-L9-230418-L	4/18/2023		WP	1			X	
45	CLEAR-MEDBLANK-230418-P	4/18/2023	1245	WP	1		X		

MK MK MK MK MK MK MK MK MK MK MK MK MK MK MK

Collected from Low Occupancy zone of Hangar 1

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michaela Kim	Rincon/Env Scientist	4/18/23 @1445
1 Received By:	Audrey Hudson	Audrey Hudson	Enthalpy / "	4/18/23 1445
2 Relinquished By:	Audrey Hudson			4/18/23 17:00
2 Received By:		Lisa Fong	EA	4/18/23 17:00
3 Relinquished By:				4/18/23 17:32
3 Received By:				1445 MK 04/20/2023

04/19/2023 @10:20am

483541

ENTHALPY ANALYTICAL

Chain of Custody Record — COC ID:

Page: 4 of 4

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

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931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	M. Kim & D. Welsh

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
46	CLEAR-MEDBLANK-230418-L	4/18/2023	1345	WP	1			X		Collected from Low Occupancy zone of Hangar 1
47										
48										
49										
50										
51										
52										
53										
54										
55										
56										
57										
58										
59										
60										

Analysis Request

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation
Report PCB concentrations on a $\mu g/100cm^2$ basis
Report lead concentrations on a $\mu g/ft^2$ basis
Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michaela Kim	Rincon EWS Scientist	4/18/23 @ 1445
1 Received By:	Audrey Hudson	Audrey Hudson	Enthalpy	4/18/23 14:15
2 Relinquished By:	Audrey Hudson	"	"	4/18/23 17:00
2 Received By:				4/18/23 17:00
3 Relinquished By:			EA	4/18/23 17:32
3 Received By:				4/19/2023 @ 10:20am

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 483541 Client: Rincon

Date Received: 4/18/23 Project: _____

ENTHALPY

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☑ Yes. If yes, where? ☑ on cooler, ☐ on samples, ☐ on package

☐ Date: 4/18/23 How many 1 ☑ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/18/23 By (print) USF (sign) [signature]

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete? USF	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?	✗		✓ USF
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 4/18/23 **By (print)** MM **(sign)** [signature]

Date Labeled 4/18/23 **By (print)** USF **(sign)** [signature]

Enthalpy Analytical - Berkeley

Rev.15.1, 09/13/2019

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 04/19/23 Sampler's Name Present: ☐ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 3.3 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.5 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

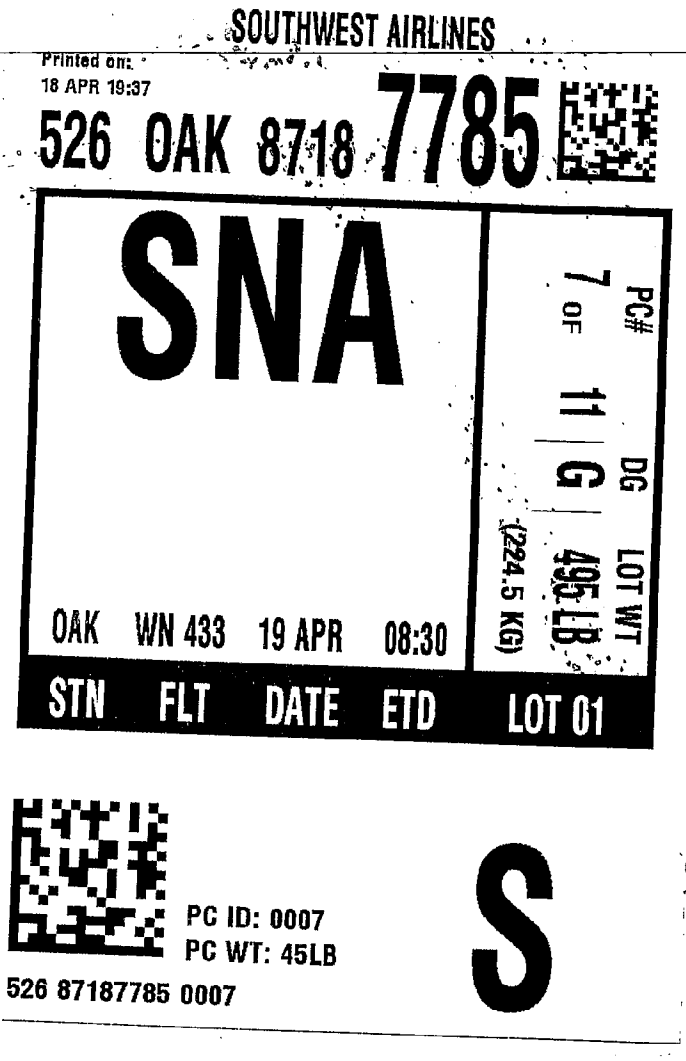
For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: APR 19 2023

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www.enthalpy.com/socal



Cooler #7

3.3 / 2.5

Enthalpy Analytical - Orange Analytical Report

Lab #: 483541 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230418-P-LA **Batch#:** 312187 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 8082

Lab ID: 483541-001 **Received:** 04/18/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/20/23

Dil n Fac: 1.000 **Analyzed:** 04/21/23

483541-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.46	ug/100 cm2
Aroclor-1221	ND	0.46	ug/100 cm2
Aroclor-1232	ND	0.46	ug/100 cm2
Aroclor-1242	ND	0.46	ug/100 cm2
Aroclor-1248	ND	0.46	ug/100 cm2
Aroclor-1254	ND	0.46	ug/100 cm2
Aroclor-1260	ND	0.46	ug/100 cm2
Aroclor-1262	ND	0.46	ug/100 cm2
Aroclor-1268	ND	0.46	ug/100 cm2

483541-001 Surrogate	%REC	Limits
TCMX (PCB)	68	19-121
Decachlorobiphenyl (PCB)	71	19-121

Field ID: CLEAR-SCAF-Z3EAB-L24-230418-P **Batch#:** 312187 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 8082

Lab ID: 483541-004 **Received:** 04/18/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/20/23

Dil n Fac: 1.000 **Analyzed:** 04/21/23

483541-004 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483541-004 Surrogate	%REC	Limits
TCMX (PCB)	80	19-121
Decachlorobiphenyl (PCB)	73	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483541 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EAB-L24-230418-P **Batch#:** 312187 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 8082

Lab ID: 483541-006 **Received:** 04/18/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/20/23

Diln Fac: 1.000 **Analyzed:** 04/21/23

483541-006 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483541-006 Surrogate	%REC	Limits
TCMX (PCB)	75	19-121
Decachlorobiphenyl (PCB)	76	19-121

Field ID: CLEAR-ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230418-P-LA **Batch#:** 312187 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 8082

Lab ID: 483541-008 **Received:** 04/18/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/20/23

Diln Fac: 1.000 **Analyzed:** 04/21/23

483541-008 Analyte	Result	RL	Units
Aroclor-1016	ND	0.46	ug/100 cm2
Aroclor-1221	ND	0.46	ug/100 cm2
Aroclor-1232	ND	0.46	ug/100 cm2
Aroclor-1242	ND	0.46	ug/100 cm2
Aroclor-1248	ND	0.46	ug/100 cm2
Aroclor-1254	ND	0.46	ug/100 cm2
Aroclor-1260	ND	0.46	ug/100 cm2
Aroclor-1262	ND	0.46	ug/100 cm2
Aroclor-1268	ND	0.46	ug/100 cm2

483541-008 Surrogate	%REC	Limits
TCMX (PCB)	67	19-121
Decachlorobiphenyl (PCB)	65	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483541 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3EAB-L20-230418-P **Batch#:** 312187 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 8082

Lab ID: 483541-010 **Received:** 04/18/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/20/23

Dil Fac: 1.000 **Analyzed:** 04/21/23

483541-010 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483541-010 Surrogate	%REC	Limits
TCMX (PCB)	80	19-121
Decachlorobiphenyl (PCB)	79	19-121

Field ID: CLEAR-ENC-Z3EAB-L20-230418-P **Batch#:** 312187 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 8082

Lab ID: 483541-012 **Received:** 04/18/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/20/23

Dil Fac: 1.000 **Analyzed:** 04/21/23

483541-012 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483541-012 Surrogate	%REC	Limits
TCMX (PCB)	71	19-121
Decachlorobiphenyl (PCB)	71	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483541 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EAB-L20-230418-P-DUP **Batch#:** 312187 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 8082

Lab ID: 483541-013 **Received:** 04/18/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/20/23

DiIn Fac: 1.000 **Analyzed:** 04/21/23

483541-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483541-013 Surrogate	%REC	Limits
TCMX (PCB)	81	19-121
Decachlorobiphenyl (PCB)	79	19-121

Field ID: CLEAR-ARCH-C4E-DG-4.5 TO 5-230418-P-FB **Batch#:** 312187 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 8082

Lab ID: 483541-015 **Received:** 04/18/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/20/23

DiIn Fac: 1.000 **Analyzed:** 04/21/23

483541-015 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483541-015 Surrogate	%REC	Limits
TCMX (PCB)	68	19-121
Decachlorobiphenyl (PCB)	66	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483541 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3EAB-L18-230418-P **Batch#:** 312187 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 8082

Lab ID: 483541-017 **Received:** 04/18/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/20/23

Dil Fac: 1.000 **Analyzed:** 04/21/23

483541-017 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483541-017 Surrogate	%REC	Limits
TCMX (PCB)	60	19-121
Decachlorobiphenyl (PCB)	58	19-121

Field ID: CLEAR-ENC-Z3EAB-L18-230418-P **Batch#:** 312187 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 8082

Lab ID: 483541-019 **Received:** 04/18/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/20/23

Dil Fac: 1.000 **Analyzed:** 04/21/23

483541-019 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483541-019 Surrogate	%REC	Limits
TCMX (PCB)	79	19-121
Decachlorobiphenyl (PCB)	76	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 483541 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-MEDBLANK-230418-P **Batch#:** 312187 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 8082

Lab ID: 483541-021 **Received:** 04/18/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/20/23

Diln Fac: 1.000 **Analyzed:** 04/21/23

483541-021 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

483541-021 Surrogate	%REC	Limits
TCMX (PCB)	78	19-121
Decachlorobiphenyl (PCB)	77	19-121

Type: BLANK **Batch#:** 312187 **Analysis:** EPA 8082

Lab ID: QC1059947 **Prepared:** 04/20/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 04/21/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1059947 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1059947 Surrogate	%REC	Limits
TCMX (PCB)	60	19-121
Decachlorobiphenyl (PCB)	66	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 483541 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 312187 **Analysis:** EPA 8082

Lab ID: QC1059948 **Prepared:** 04/20/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 04/21/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1059948 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.705	74	60-140	ug/100 cm2
Aroclor-1260	5.000	3.802	76	60-140	ug/100 cm2

QC1059948 Surrogate	%REC	Limits
TCMX (PCB)	65	19-121
Decachlorobiphenyl (PCB)	70	19-121

Type: BSD **Batch#:** 312187 **Analysis:** EPA 8082

Lab ID: QC1059949 **Prepared:** 04/20/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 04/21/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1059949 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.856	77	60-140	ug/100 cm2	4	20
Aroclor-1260	5.000	3.906	78	60-140	ug/100 cm2	3	20

QC1059949 Surrogate	%REC	Limits
TCMX (PCB)	68	19-121
Decachlorobiphenyl (PCB)	74	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 483541 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230418-L-LA **Batch#:** 312167 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 6010B
Lab ID: 483541-002 **Received:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/20/23
Dln Fac: 1.000 **Analyzed:** 04/20/23

483541-002 Analyte	Result	RL	Units
Lead	**43**	0.25	ug/ft2

Field ID: CLEAR-ARCH-C3E-DG-2.5 TO 3-UP-C3.1-HS-230418-L-DUP **Batch#:** 312167 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 6010B
Lab ID: 483541-003 **Received:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/20/23
Dln Fac: 1.000 **Analyzed:** 04/20/23

483541-003 Analyte	Result	RL	Units
Lead	**36**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EAB-L24-230418-L **Batch#:** 312167 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 6010B
Lab ID: 483541-005 **Received:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/20/23
Dln Fac: 1.000 **Analyzed:** 04/20/23

483541-005 Analyte	Result	RL	Units
Lead	**300**	0.25	ug/ft2

Field ID: CLEAR-ENC-Z3EAB-L24-230418-L **Batch#:** 312167 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 6010B
Lab ID: 483541-007 **Received:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/20/23
Dln Fac: 1.000 **Analyzed:** 04/20/23

483541-007 Analyte	Result	RL	Units
Lead	**99**	0.25	ug/ft2

Field ID: CLEAR-ARCH-C5E-DG-4 TO 4.5-DN-C5.4-VS-230418-L-LA **Batch#:** 312167 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 6010B
Lab ID: 483541-009 **Received:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/20/23
Dln Fac: 1.000 **Analyzed:** 04/20/23

483541-009 Analyte	Result	RL	Units
Lead	**54**	0.24	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 483541 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3EAB-L20-230418-L **Batch#:** 312167 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 6010B
Lab ID: 483541-011 **Received:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/20/23
Diln Fac: 1.000 **Analyzed:** 04/20/23

483541-011 Analyte	Result	RL	Units
Lead	**150**	0.25	ug/ft2

Field ID: CLEAR-ENC-Z3EAB-L20-230418-L **Batch#:** 312167 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 6010B
Lab ID: 483541-014 **Received:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/20/23
Diln Fac: 1.000 **Analyzed:** 04/20/23

483541-014 Analyte	Result	RL	Units
Lead	**25**	0.25	ug/ft2

Field ID: CLEAR-ARCH-C4E-DG-4.5 TO 5-230418-L-FB **Batch#:** 312167 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 6010B
Lab ID: 483541-016 **Received:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/20/23
Diln Fac: 1.000 **Analyzed:** 04/20/23

483541-016 Analyte	Result	RL	Units
Lead	**16**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EAB-L18-230418-L **Batch#:** 312167 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 6010B
Lab ID: 483541-018 **Received:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/20/23
Diln Fac: 10.00 **Analyzed:** 04/20/23

483541-018 Analyte	Result	RL	Units
Lead	**690**	2.5	ug/ft2

Field ID: CLEAR-ENC-Z3EAB-L18-230418-L **Batch#:** 312167 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/18/23 **Analysis:** EPA 6010B
Lab ID: 483541-020 **Received:** 04/18/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/20/23
Diln Fac: 1.000 **Analyzed:** 04/20/23

483541-020 Analyte	Result	RL	Units
Lead	**24**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 483541 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID:	CLEAR-MEDBLANK-230418-L	**Batch#:**	312167	**Prep:**	EPA 3050B
Type:	SAMPLE	**Sampled:**	04/18/23	**Analysis:**	EPA 6010B
Lab ID:	483541-022	**Received:**	04/18/23	**Analyst:**	SBW
Matrix:	Wipe	**Prepared:**	04/20/23		
Diln Fac:	1.000	**Analyzed:**	04/20/23		

483541-022 Analyte	Result	RL	Units
Lead	**1.4**	0.25	ug/ft2

Type:	BLANK	**Batch#:**	312167	**Analysis:**	EPA 6010B
Lab ID:	QC1059874	**Prepared:**	04/20/23	**Analyst:**	SBW
Matrix:	Wipe	**Analyzed:**	04/20/23		
Diln Fac:	1.000	**Prep:**	EPA 3050B		

QC1059874 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 483541 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 312167 **Analysis:** EPA 6010B

Lab ID: QC1059875 **Prepared:** 04/20/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 04/20/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1059875 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	54.42	109	80-120	ug/ft2

Type: BSD **Batch#:** 312167 **Analysis:** EPA 6010B

Lab ID: QC1059876 **Prepared:** 04/20/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 04/20/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1059876 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	55.19	110	80-120	ug/ft2	1	20

Legend

RPD: Relative Percent Difference

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

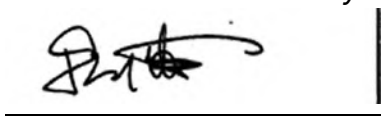
Lab Job Number: 484120
Report Level: II
Report Date: 06/21/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	484120
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	04/27/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C5E-DG-6 TO 6.5-230427-P-FB	484120-001	04/27/23 07:45	Wipe
CLEAR-ARCH-C5E-DG-6 TO 6.5-230427-L-FB	484120-002	04/27/23 07:45	Wipe
CLEAR-SCAF-Z3EAB-L14-230427-P	484120-003	04/27/23 07:50	Wipe
CLEAR-SCAF-Z3EAB-L14-230427-L	484120-004	04/27/23 07:50	Wipe
CLEAR-ENC-Z3EAB-L14-230427-P	484120-005	04/27/23 07:55	Wipe
CLEAR-ENC-Z3EAB-L14-230427-L	484120-006	04/27/23 07:55	Wipe
CLEAR-ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230427-P-LA	484120-007	04/27/23 08:15	Wipe
CLEAR-ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230427-L-LA	484120-008	04/27/23 08:15	Wipe
CLEAR-SCAF-Z3EAB-L13-230427-P	484120-009	04/27/23 08:20	Wipe
CLEAR-SCAF-Z3EAB-L13-230427-L	484120-010	04/27/23 08:20	Wipe
CLEAR-ENC-Z3EAB-L13-230427-P	484120-011	04/27/23 08:25	Wipe
CLEAR-ENC-Z3EAB-L13-230427-L	484120-012	04/27/23 08:25	Wipe
CLEAR-ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230427-P-LA	484120-013	04/27/23 08:50	Wipe
CLEAR-ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230427-L-LA	484120-014	04/27/23 08:50	Wipe
CLEAR-SCAF-Z3EAB-L11-230427-P	484120-015	04/27/23 08:55	Wipe
CLEAR-SCAF-Z3EAB-L11-230427-L	484120-016	04/27/23 08:55	Wipe
CLEAR-ENC-Z3EAB-L11-230427-P	484120-017	04/27/23 09:00	Wipe
CLEAR-ENC-Z3EAB-L11-230427-L	484120-018	04/27/23 09:00	Wipe
CLEAR-ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230427-P-LA	484120-019	04/27/23 09:20	Wipe

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	484120
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	04/27/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230427-L-LA	484120-020	04/27/23 09:20	Wipe
CLEAR-SCAF-Z3EAB-L9-230427-P	484120-021	04/27/23 09:25	Wipe
CLEAR-SCAF-Z3EAB-L9-230427-L	484120-022	04/27/23 09:25	Wipe
CLEAR-ENC-Z3EAB-L9-230427-P	484120-023	04/27/23 09:30	Wipe
CLEAR-ENC-Z3EAB-L9-230427-L	484120-024	04/27/23 09:30	Wipe

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Austin Moore	Lab Job Number: 484120 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 04/27/23

This data package contains sample and QC results for twenty four wipe samples, requested for the above referenced project on 04/28/23. The samples were received cold and intact. This report was revised and reissued on 06/21/23 to correct two sample IDs.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

484120

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 1 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION

Company:	Rincon Consultants, Inc.
Report To:	Lindsay Parker
Email:	lparker@rinconconsultants.com
Address:	449 15th Street, Suite 303
	Oakland, California 94612
Phone:	(651) 890-9556
Fax:	

PROJECT INFORMATION

Quote #:	RIN031721
Proj. Name:	Hangar 1 - NCTRA WP
Proj. #:	20-10491
P.O. #:	
Address:	158 Cody Road, Mountain View, CA
Global ID:	
Sampled By:	T. Sennett, M. Kim

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm² basis

Report lead concentrations on a µg/ft² basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
1	CLEAR-ARCH-C5E-DG-6 TO 6.5-230427-P-FB	4/27/2023	0745	WP	1		X		
2	CLEAR-ARCH-C5E-DG-6 TO 6.5-230427-L-FB	4/27/2023	0745	WP	1			X	
3	CLEAR-SCAF-Z3EAB-L13-230427-P	4/27/2023	0750	WP	1		X		
4	CLEAR-SCAF-Z3EAB-L13-230427-L	4/27/2023	0750	WP	1			X	
5	CLEAR-ENC-Z3EAB-L13-230427-P	4/27/2023	0755	WP	1		X		
6	CLEAR-ENC-Z3EAB-L13-230427-L	4/27/2023	0755	WP	1			X	
7	CLEAR-ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230427-P-LA	4/27/2023	0815	WP	1		X		
8	CLEAR-ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230427-L-LA	4/27/2023	0815	WP	1			X	
9	CLEAR-SCAF-Z3EAB-L13-230427-P	4/27/2023	0870	WP	1		X		
10	CLEAR-SCAF-Z3EAB-L13-230427-L	4/27/2023	0870	WP	1			X	
11	CLEAR-ENC-Z3EAB-L13-230427-P	4/27/2023	0815	WP	1		X		
12	CLEAR-ENC-Z3EAB-L13-230427-L	4/27/2023	0815	WP	1			X	
13	CLEAR-ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230427-P-LA	4/27/2023	0850	WP	1		X		
14	CLEAR-ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230427-L-LA	4/27/2023	0850	WP	1			X	
15	CLEAR-SCAF-Z3EAB-L11-230427-P	4/27/2023	0855	WP	1		X		

2xRivet Type 2 = 0.0200 ft²

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Donald Welch	Rincon Consultants / Env. Sci.	4/27/23 1355
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	4/27/23 13:55
2 Relinquished By:	Audrey Hudson	"	"	4/27/23 16:00
2 Received By:			EA	4/27/23 16:00
3 Relinquished By:			TEA	4/27/23 16:31
3 Received By:			EA	4/28/23 0855

484120

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 2 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION

Company:	Rincon Consultants, Inc.
Report To:	Lindsay Parker
Email:	lparker@rinconconsultants.com
Address:	449 15th Street, Suite 303
	Oakland, California 94612
Phone:	(651) 890-9556
Fax:	

PROJECT INFORMATION

Quote #:	RIN031721
Proj. Name:	Hangar 1 - NCTRA WP
Proj. #:	20-10491
P.O. #:	
Address:	158 Cody Road, Mountain View, CA
Global ID:	
Sampled By:	T. Sawatt, M. Kim

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm² basis

Report lead concentrations on a µg/ft² basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure A/B (Low Occupancy)

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
16	CLEAR-SCAF-Z3EAB-L11-230427-L	4/27/2023	0855	WP	1			X	
17	CLEAR-ENC-Z3EAB-L11-230427-P	4/27/2023	0900	WP	1		X		
18	CLEAR-ENC-Z3EAB-L11-230427-L	4/27/2023	0900	WP	1			X	
19	CLEAR-ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230427-P-LA	4/27/2023	0920	WP	1		X		
20	CLEAR-ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230427-L-LA	4/27/2023	0920	WP	1			X	
21	CLEAR-SCAF-Z3EAB-L9-230427-P	4/27/2023	0925	WP	1		X		
22	CLEAR-SCAF-Z3EAB-L9-230427-L	4/27/2023	0925	WP	1			X	
23	CLEAR-ENC-Z3EAB-L9-230427-P	4/27/2023	0930	WP	1		X		
24	CLEAR-ENC-Z3EAB-L9-230427-L	4/27/2023	0930	WP	1			X	
25									
26									
27									
28									
29									
30									

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Donald Welsh	Rincon Consultants / Env. Sci.	4/27/23 / 1355
[1] Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY / "	4/27/23 1355
[2] Relinquished By:	Audrey Hudson	"	"	4/27/23 16:00
[2] Received By:		Maureen M Vado	EA	4/27/23 16:00
[3] Relinquished By:		Waiting	12A	4/27/23 1631
[3] Received By:				

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 494100 Client: Rincon

Date Received: 4/27/23 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☑ Yes. If yes, where? ☑ on cooler, ☐ on samples, ☐ on package

☑ Date: 4/27/23 How many 1 ☐ Signature, ☑ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 2 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/27/23 By (print) USF (sign) [signature]

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 4/27/23 **By (print)** USF for MY **(sign)** [signature]

Date Labeled 4/27/23 **By (print)** USF **(sign)** [signature]

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

484120

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 04/28/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 3.0 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.6 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 4/28/23



8:52

TEMP

3.0 / 2.4

Enthalpy Analytical - Orange Analytical Report

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C5E-DG-6 TO 6.5-230427-P-FB **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-001 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484120-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-001 Surrogate	%REC	Limits
TCMX (PCB)	78	19-121
Decachlorobiphenyl (PCB)	66	19-121

Field ID: CLEAR-SCAF-Z3EAB-L14-230427-P **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-003 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484120-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-003 Surrogate	%REC	Limits
TCMX (PCB)	68	19-121
Decachlorobiphenyl (PCB)	57	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EAB-L14-230427-P **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-005 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484120-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-005 Surrogate	%REC	Limits
TCMX (PCB)	65	19-121
Decachlorobiphenyl (PCB)	61	19-121

Field ID: CLEAR-ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230427-P-LA **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-007 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484120-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-007 Surrogate	%REC	Limits
TCMX (PCB)	64	19-121
Decachlorobiphenyl (PCB)	54	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3EAB-L13-230427-P **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-009 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Dil Fac: 1.000 **Analyzed:** 05/01/23

484120-009 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-009 Surrogate	%REC	Limits
TCMX (PCB)	69	19-121
Decachlorobiphenyl (PCB)	65	19-121

Field ID: CLEAR-ENC-Z3EAB-L13-230427-P **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-011 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Dil Fac: 1.000 **Analyzed:** 05/01/23

484120-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-011 Surrogate	%REC	Limits
TCMX (PCB)	65	19-121
Decachlorobiphenyl (PCB)	52	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230427-P-LA **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-013 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484120-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-013 Surrogate	%REC	Limits
TCMX (PCB)	71	19-121
Decachlorobiphenyl (PCB)	56	19-121

Field ID: CLEAR-SCAF-Z3EAB-L11-230427-P **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-015 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484120-015 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-015 Surrogate	%REC	Limits
TCMX (PCB)	74	19-121
Decachlorobiphenyl (PCB)	63	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EAB-L11-230427-P **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-017 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484120-017 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-017 Surrogate	%REC	Limits
TCMX (PCB)	79	19-121
Decachlorobiphenyl (PCB)	71	19-121

Field ID: CLEAR-ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230427-P-LA **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-019 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484120-019 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-019 Surrogate	%REC	Limits
TCMX (PCB)	79	19-121
Decachlorobiphenyl (PCB)	73	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3EAB-L9-230427-P **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-021 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484120-021 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-021 Surrogate	%REC	Limits
TCMX (PCB)	71	19-121
Decachlorobiphenyl (PCB)	60	19-121

Field ID: CLEAR-ENC-Z3EAB-L9-230427-P **Batch#:** 312852 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484120-023 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484120-023 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484120-023 Surrogate	%REC	Limits
TCMX (PCB)	67	19-121
Decachlorobiphenyl (PCB)	59	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BLANK **Batch#:** 312852 **Analysis:** EPA 8082

Lab ID: QC1062071 **Prepared:** 04/30/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 05/01/23

Dil'n Fac: 1.000 **Prep:** EPA 3546

QC1062071 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1062071 Surrogate	%REC	Limits
TCMX (PCB)	73	19-121
Decachlorobiphenyl (PCB)	58	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 312852 **Analysis:** EPA 8082

Lab ID: QC1062073 **Prepared:** 04/30/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 05/01/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1062073 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.939	79	60-140	ug/100 cm2
Aroclor-1260	5.000	3.699	74	60-140	ug/100 cm2

QC1062073 Surrogate	%REC	Limits
TCMX (PCB)	75	19-121
Decachlorobiphenyl (PCB)	63	19-121

Type: BSD **Batch#:** 312852 **Analysis:** EPA 8082

Lab ID: QC1062074 **Prepared:** 04/30/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 05/01/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1062074 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.938	79	60-140	ug/100 cm2	0	20
Aroclor-1260	5.000	3.726	75	60-140	ug/100 cm2	1	20

QC1062074 Surrogate	%REC	Limits
TCMX (PCB)	75	19-121
Decachlorobiphenyl (PCB)	66	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C5E-DG-6 TO 6.5-230427-L-FB **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484120-002 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Dil n Fac: 1.000 **Analyzed:** 04/28/23

484120-002 Analyte	Result	RL	Units
Lead	**33**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EAB-L14-230427-L **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484120-004 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Dil n Fac: 1.000 **Analyzed:** 04/28/23

484120-004 Analyte	Result	RL	Units
Lead	**340**	0.25	ug/ft2

Field ID: CLEAR-ENC-Z3EAB-L14-230427-L **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484120-006 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Dil n Fac: 1.000 **Analyzed:** 04/28/23

484120-006 Analyte	Result	RL	Units
Lead	**42**	0.25	ug/ft2

Field ID: CLEAR-ARCH-C5E-DG-6 TO 6.5-DN-C5.6-VS-230427-L-LA **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484120-008 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Dil n Fac: 1.000 **Analyzed:** 04/28/23

484120-008 Analyte	Result	RL	Units
Lead	**38**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EAB-L13-230427-L **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484120-010 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Dil n Fac: 1.000 **Analyzed:** 04/28/23

484120-010 Analyte	Result	RL	Units
Lead	**140**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EAB-L13-230427-L **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484120-012 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Diln Fac: 1.000 **Analyzed:** 04/28/23

484120-012 Analyte	Result	RL	Units
Lead	**71**	0.25	ug/ft2

Field ID: CLEAR-ARCH-C3E-DG-7 TO 7.5-UP-C3.7-DG-230427-L-LA **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484120-014 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Diln Fac: 1.000 **Analyzed:** 04/28/23

484120-014 Analyte	Result	RL	Units
Lead	**92**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EAB-L11-230427-L **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484120-016 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Diln Fac: 1.000 **Analyzed:** 04/28/23

484120-016 Analyte	Result	RL	Units
Lead	**73**	0.25	ug/ft2

Field ID: CLEAR-ENC-Z3EAB-L11-230427-L **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484120-018 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Diln Fac: 1.000 **Analyzed:** 04/28/23

484120-018 Analyte	Result	RL	Units
Lead	**39**	0.25	ug/ft2

Field ID: CLEAR-ARCH-C3E-DG-7.5 TO 9-UP-C3.3-VS-230427-L-LA **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484120-020 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Diln Fac: 1.000 **Analyzed:** 04/28/23

484120-020 Analyte	Result	RL	Units
Lead	**17**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3EAB-L9-230427-L
Type: SAMPLE
Lab ID: 484120-022
Matrix: Wipe
Diln Fac: 1.000

Batch#: 312796
Sampled: 04/27/23
Received: 04/27/23
Prepared: 04/28/23
Analyzed: 04/28/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

484120-022 Analyte	Result	RL	Units
Lead	**180**	0.25	ug/ft2

Field ID: CLEAR-ENC-Z3EAB-L9-230427-L
Type: SAMPLE
Lab ID: 484120-024
Matrix: Wipe
Diln Fac: 1.000

Batch#: 312796
Sampled: 04/27/23
Received: 04/27/23
Prepared: 04/28/23
Analyzed: 04/28/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

484120-024 Analyte	Result	RL	Units
Lead	**34**	0.25	ug/ft2

Type: BLANK
Lab ID: QC1061882
Matrix: Wipe
Diln Fac: 1.000

Batch#: 312796
Prepared: 04/28/23
Analyzed: 04/28/23
Prep: EPA 3050B

Analysis: EPA 6010B
Analyst: SBW

QC1061882 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Legend
ND: Not Detected
RL: Reporting Limit

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 484120 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 312796 **Analysis:** EPA 6010B

Lab ID: QC1061884 **Prepared:** 04/28/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 05/01/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1061884 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	50.98	102	80-120	ug/ft2

Type: BSD **Batch#:** 312796 **Analysis:** EPA 6010B

Lab ID: QC1061885 **Prepared:** 04/28/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 05/01/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1061885 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	53.07	106	80-120	ug/ft2	4	20

Legend

RPD: Relative Percent Difference

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

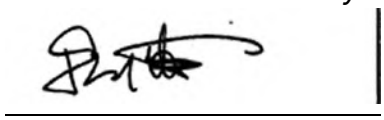
Lab Job Number:	484123
Report Level:	II
Report Date:	06/21/2023

Analytical Report *prepared for:*

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	484123
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	04/27/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-AFRAME-C5E-LAT-L3-DN-C5.3-DG-230427-P-LA	484123-001	04/27/23 07:35	Wipe
CLEAR-AFRAME-C5E-LAT-L3-DN-C5.3-DG-230427-L-LA	484123-002	04/27/23 07:35	Wipe
CLEAR-SCAF-Z3EAB-L6-230427-P	484123-003	04/27/23 07:45	Wipe
CLEAR-SCAF-Z3EAB-L6-230427-L	484123-004	04/27/23 07:45	Wipe
CLEAR-ENC-Z3EAB-L6-230427-P	484123-005	04/27/23 07:55	Wipe
CLEAR-ENC-Z3EAB-L6-230427-P-DUP	484123-006	04/27/23 07:55	Wipe
CLEAR-ENC-Z3EAB-L6-230427-L	484123-007	04/27/23 07:55	Wipe
CLEAR-AFRAME-C3E-LAT-L2-DN-C3.4-DG-230427-P-LA	484123-008	04/27/23 08:05	Wipe
CLEAR-AFRAME-C3E-LAT-L2-DN-C3.4-DG-230427-L-LA	484123-009	04/27/23 08:05	Wipe
CLEAR-AFRAME-C3E-LAT-L2-DN-C3.4-DG-230427-L-LA-DUP	484123-010	04/27/23 08:05	Wipe
CLEAR-SCAF-Z3EAB-L4-230427-P	484123-011	04/27/23 08:15	Wipe
CLEAR-SCAF-Z3EAB-L4-230427-L	484123-012	04/27/23 08:15	Wipe
CLEAR-ENC-Z3EAB-L4-230427-P	484123-013	04/27/23 08:25	Wipe
CLEAR-ENC-Z3EAB-L4-230427-L	484123-014	04/27/23 08:25	Wipe
CLEAR-AFRAME-C3E-LAT-L1-HS-3-230427-P-A	484123-015	04/27/23 08:50	Wipe
CLEAR-SCAF-Z3EAB-L2-230427-L	484123-016	04/27/23 09:00	Wipe
CLEAR-SCAF-Z3EAB-L2-230427-P	484123-017	04/27/23 09:00	Wipe
CLEAR-ENC-Z3EAB-L2-230427-L	484123-018	04/27/23 09:10	Wipe
CLEAR-ENC-Z3EAB-L2-230427-P	484123-019	04/27/23 09:10	Wipe
CLEAR-MEDBLANK-230427-L	484123-020	04/27/23 07:30	Wipe

ENTHALPY ANALYTICAL

Sample Summary

Austin Moore
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	484123
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	04/27/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-MEDBLANK-230427-P	484123-021	04/27/23 07:30	Wipe
CLEAR-AFRAME-C3E-LAT-L1-HS-3-230427-L-A	484123-022	04/27/23 08:50	Wipe

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Austin Moore	Lab Job Number: 484123 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 04/27/23

This data package contains sample and QC results for twenty two wipe samples, requested for the above referenced project on 04/28/23. The samples were received cold and intact. This report was revised and reissued on 6/21/23 to correct various sample IDs.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

484123

ENTHALPY ANALYTICAL

Chain of Custody Record COC ID:

Page: 1 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

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931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Smrt, M. Kim

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm² basis
Report lead concentrations on a µg/ft² basis
Report Aroclor 1268 concentrations in addition to the standard Aroclors
Results to be delivered by Saturday 2/11 for both Lead and PCB analysis

Wipe samples collected from Zone 3 Enclosure A/B (High Occupancy)

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B								HOLD
1	CLEAR-AFRAME-C5E-LAT-L3-DN-C5.3-DG-230427-P-LA	4/27/2023	0735	WP	1		X									
2	CLEAR-AFRAME-C5E-LAT-L3-DN-C5.3-DG-230427-L-LA	4/27/2023	0735	WP	1			X								
3	CLEAR-SCAF-Z3EAB-L6-230427-P	4/27/2023	0745	WP	1		X									
4	CLEAR-SCAF-Z3EAB-L6-230427-L	4/27/2023	0745	WP	1			X								
5	CLEAR-ENC-Z3EAB-L6-230427-P	4/27/2023	0755	WP	1		X									
6	CLEAR-ENC-Z3EAB-L6-230427-P-DUP	4/27/2023	0755	WP	1		X									
7	CLEAR-ENC-Z3EAB-L6-230427-L	4/27/2023	0755	WP	1			X								
8	CLEAR-AFRAME-C3E-LAT-L2-DN-C3.4-DG-230427-P-LA	4/27/2023	0805	WP	1		X									
9	CLEAR-AFRAME-C3E-LAT-L2-DN-C3.4-DG-230427-L-LA	4/27/2023	0805	WP	1			X								
10	CLEAR-AFRAME-C3E-LAT-L2-DN-C3.4-DG-230427-L-LA-DUP	4/27/2023	0805	WP	1			X								
11	CLEAR-SCAF-Z3EAB-L4-230427-P	4/27/2023	0815	WP	1		X									
12	CLEAR-SCAF-Z3EAB-L4-230427-L	4/27/2023	0815	WP	1			X								
13	CLEAR-ENC-Z3EAB-L4-230427-P	4/27/2023	0825	WP	1		X									
14	CLEAR-ENC-Z3EAB-L4-230427-L	4/27/2023	0825	WP	1			X								
15	CLEAR-AFRAME-C3E-LAT-L1-HS-3-230427-P-A	4/27/2023	0850	WP	1		X									

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Donald Welsh	Rincon Consultants / Env. Sci.	4/27/23 1355
[1] Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	4/27/23 13:55
[2] Relinquished By:	Audrey Hudson	"	"	4/27/23 16:00
[2] Received By:		[illegible]	[illegible]	4/27/23 16:00
[3] Relinquished By:		[illegible]	FA	4/28/23 0701
[3] Received By:		[illegible]	[illegible]	4/28/23 0855

484123

ENTHALPY ANALYTICAL

Chain of Custody Record COC ID:

Page: 2 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Smith, M. Kim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B							HOLD	Test Instructions / Comments
16	CLEAR-AFRAME-C3E-LAT-L1-HS-3-230427-L-A	4/27/2023	0950	WP	1			X								
17	CLEAR-SCAF-Z3EAB-L2-230427-P	4/27/2023	0900	WP	1		X									
18	CLEAR-SCAF-Z3EAB-L2-230427-L	4/27/2023	0900	WP	1			X								
19	CLEAR-ENC-Z3EAB-L2-230427-P	4/27/2023	0910	WP	1		X									
20	CLEAR-ENC-Z3EAB-L2-230427-L	4/27/2023	0910	WP	1			X								
21	CLEAR-MEDBLANK-230427-P	4/27/2023	0730	WP	1		X									Collected from High Occupancy zone of Hangar 1
22	CLEAR-MEDBLANK-230427-L	4/27/2023	0730	WP	1			X								Collected from High Occupancy zone of Hangar 1
23																
24																
25																
26																
27																
28																
29																
30																

Analysis Request

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation
Report PCB concentrations on a µg/100cm² basis
Report lead concentrations on a µg/ft² basis
Report Aroclor 1268 concentrations in addition to the standard Aroclors
Results to be delivered by Saturday 2/11 for both Lead and PCB analysis

Wipe samples collected from Zone 3 Enclosure A/B (High Occupancy)

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Donald Welsh	Rincon Consultants / Env. Sci	4/27/23 / 1355
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	4/27/23 13:55
2 Relinquished By:	Audrey Hudson	11	11 11	4/27/23 16:00
2 Received By:		M Mann/II 4.50	EA	4/27/23 16:50
3 Relinquished By:				4/28/23 17:01
3 Received By:				

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 484123 Client: Rincon

Date Received: 4/27/23 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☑ Yes. If yes, where? ☑ on cooler, ☐ on samples, ☐ on package

☑ Date: 4/27/23 How many 1 ☐ Signature, ☑ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 2 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 4/27/23 By (print) VEF (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used: ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 4/27/23 **By (print)** VEF for MY **(sign)** _____

Date Labeled 4/27/23 **By (print)** VEF **(sign)** _____

Enthalpy Analytical - Berkeley

Rev.15.1, 09/13/2019

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

484123

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 04/28/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 3.0 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 2.6 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 4/28/23



8:52

TEMP

3.0 / 2.4

Enthalpy Analytical - Orange Analytical Report

Lab #: 484123 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C5E-LAT-L3-DN-C5.3-DG-230427-P-LA **Batch#:** 312853 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484123-001 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Dil n Fac: 1.000 **Analyzed:** 05/01/23

484123-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484123-001 Surrogate	%REC	Limits
TCMX (PCB)	80	19-121
Decachlorobiphenyl (PCB)	69	19-121

Field ID: CLEAR-SCAF-Z3EAB-L6-230427-P **Batch#:** 312853 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484123-003 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Dil n Fac: 1.000 **Analyzed:** 05/01/23

484123-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484123-003 Surrogate	%REC	Limits
TCMX (PCB)	73	19-121
Decachlorobiphenyl (PCB)	66	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 484123 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EAB-L6-230427-P **Batch#:** 312853 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484123-005 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484123-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484123-005 Surrogate	%REC	Limits
TCMX (PCB)	71	19-121
Decachlorobiphenyl (PCB)	61	19-121

Field ID: CLEAR-ENC-Z3EAB-L6-230427-P-DUP **Batch#:** 312853 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484123-006 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484123-006 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484123-006 Surrogate	%REC	Limits
TCMX (PCB)	74	19-121
Decachlorobiphenyl (PCB)	68	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 484123 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C3E-LAT-L2-DN-C3.4-DG-230427-P-LA **Batch#:** 312853 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484123-008 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484123-008 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484123-008 Surrogate	%REC	Limits
TCMX (PCB)	87	19-121
Decachlorobiphenyl (PCB)	75	19-121

Field ID: CLEAR-SCAF-Z3EAB-L4-230427-P **Batch#:** 312853 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484123-011 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484123-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484123-011 Surrogate	%REC	Limits
TCMX (PCB)	82	19-121
Decachlorobiphenyl (PCB)	65	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 484123 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EAB-L4-230427-P **Batch#:** 312853 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484123-013 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484123-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484123-013 Surrogate	%REC	Limits
TCMX (PCB)	80	19-121
Decachlorobiphenyl (PCB)	71	19-121

Field ID: CLEAR-AFRAME-C3E-LAT-L1-HS-3-230427-P-A **Batch#:** 312853 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484123-015 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484123-015 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484123-015 Surrogate	%REC	Limits
TCMX (PCB)	79	19-121
Decachlorobiphenyl (PCB)	74	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 484123 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3EAB-L2-230427-P **Batch#:** 312853 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484123-017 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Dil n Fac: 1.000 **Analyzed:** 05/01/23

484123-017 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484123-017 Surrogate	%REC	Limits
TCMX (PCB)	92	19-121
Decachlorobiphenyl (PCB)	87	19-121

Field ID: CLEAR-ENC-Z3EAB-L2-230427-P **Batch#:** 312853 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484123-019 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Dil n Fac: 1.000 **Analyzed:** 05/01/23

484123-019 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484123-019 Surrogate	%REC	Limits
TCMX (PCB)	83	19-121
Decachlorobiphenyl (PCB)	72	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 484123 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-MEDBLANK-230427-P **Batch#:** 312853 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 8082

Lab ID: 484123-021 **Received:** 04/27/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 04/30/23

Diln Fac: 1.000 **Analyzed:** 05/01/23

484123-021 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

484123-021 Surrogate	%REC	Limits
TCMX (PCB)	94	19-121
Decachlorobiphenyl (PCB)	90	19-121

Type: BLANK **Batch#:** 312853 **Analysis:** EPA 8082

Lab ID: QC1062075 **Prepared:** 04/30/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 05/02/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1062075 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1062075 Surrogate	%REC	Limits
TCMX (PCB)	77	19-121
Decachlorobiphenyl (PCB)	78	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 484123 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 312853 **Analysis:** EPA 8082

Lab ID: QC1062076 **Prepared:** 04/30/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 05/01/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1062076 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.716	94	60-140	ug/100 cm2
Aroclor-1260	5.000	4.099	82	60-140	ug/100 cm2

QC1062076 Surrogate	%REC	Limits
TCMX (PCB)	91	19-121
Decachlorobiphenyl (PCB)	71	19-121

Type: BSD **Batch#:** 312853 **Analysis:** EPA 8082

Lab ID: QC1062077 **Prepared:** 04/30/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 05/01/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1062077 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	5.718	114	60-140	ug/100 cm2	19	20
Aroclor-1260	5.000	5.034	101	60-140	ug/100 cm2	20	20

QC1062077 Surrogate	%REC	Limits
TCMX (PCB)	91	19-121
Decachlorobiphenyl (PCB)	76	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 484123 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C5E-LAT-L3-DN-C5.3-DG-230427-L-LA
Type: SAMPLE
Lab ID: 484123-002
Matrix: Wipe
Diln Fac: 1.000

Batch#: 312796
Sampled: 04/27/23
Received: 04/27/23
Prepared: 04/28/23
Analyzed: 04/28/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

484123-002 Analyte	Result	RL	Units
Lead	**66**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EAB-L6-230427-L
Type: SAMPLE
Lab ID: 484123-004
Matrix: Wipe
Diln Fac: 1.000

Batch#: 312796
Sampled: 04/27/23
Received: 04/27/23
Prepared: 04/28/23
Analyzed: 04/28/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

484123-004 Analyte	Result	RL	Units
Lead	**61**	0.25	ug/ft2

Field ID: CLEAR-ENC-Z3EAB-L6-230427-L
Type: SAMPLE
Lab ID: 484123-007
Matrix: Wipe
Diln Fac: 1.000

Batch#: 312796
Sampled: 04/27/23
Received: 04/27/23
Prepared: 04/28/23
Analyzed: 04/28/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

484123-007 Analyte	Result	RL	Units
Lead	**10**	0.25	ug/ft2

Field ID: CLEAR-AFRAME-C3E-LAT-L2-DN-C3.4-DG-230427-L-LA
Type: SAMPLE
Lab ID: 484123-009
Matrix: Wipe
Diln Fac: 1.000

Batch#: 312796
Sampled: 04/27/23
Received: 04/27/23
Prepared: 04/28/23
Analyzed: 04/28/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

484123-009 Analyte	Result	RL	Units
Lead	**53**	0.25	ug/ft2

Field ID: CLEAR-AFRAME-C3E-LAT-L2-DN-C3.4-DG-230427-L-LA-DUP
Type: SAMPLE
Lab ID: 484123-010
Matrix: Wipe
Diln Fac: 1.000

Batch#: 312796
Sampled: 04/27/23
Received: 04/27/23
Prepared: 04/28/23
Analyzed: 04/28/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

484123-010 Analyte	Result	RL	Units
Lead	**23**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 484123 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3EAB-L4-230427-L **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484123-012 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Diln Fac: 1.000 **Analyzed:** 04/28/23

484123-012 Analyte	Result	RL	Units
Lead	**60**	0.25	ug/ft2

Field ID: CLEAR-ENC-Z3EAB-L4-230427-L **Batch#:** 312796 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484123-014 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Diln Fac: 1.000 **Analyzed:** 04/28/23

484123-014 Analyte	Result	RL	Units
Lead	**11**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EAB-L2-230427-L **Batch#:** 312798 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484123-016 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Diln Fac: 1.000 **Analyzed:** 04/28/23

484123-016 Analyte	Result	RL	Units
Lead	**4.5**	0.25	ug/ft2

Field ID: CLEAR-ENC-Z3EAB-L2-230427-L **Batch#:** 312798 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484123-018 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Diln Fac: 1.000 **Analyzed:** 04/28/23

484123-018 Analyte	Result	RL	Units
Lead	**3.7**	0.25	ug/ft2

Field ID: CLEAR-MEDBLANK-230427-L **Batch#:** 312798 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B
Lab ID: 484123-020 **Received:** 04/27/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 04/28/23
Diln Fac: 1.000 **Analyzed:** 04/28/23

484123-020 Analyte	Result	RL	Units
Lead	**1.8**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 484123 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C3E-LAT-L1-HS-3-230427-L-A **Batch#:** 312796 **Prep:** EPA 3050B

Type: SAMPLE **Sampled:** 04/27/23 **Analysis:** EPA 6010B

Lab ID: 484123-022 **Received:** 04/27/23 **Analyst:** SBW

Matrix: Wipe **Prepared:** 04/28/23

Dil n Fac: 1.000 **Analyzed:** 04/28/23

484123-022 Analyte	Result	RL	Units
Lead	**15**	0.25	ug/ft2

Type: BLANK **Batch#:** 312796 **Analysis:** EPA 6010B

Lab ID: QC1061882 **Prepared:** 04/28/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 04/28/23

Dil n Fac: 1.000 **Prep:** EPA 3050B

QC1061882 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Type: BLANK **Batch#:** 312798 **Analysis:** EPA 6010B

Lab ID: QC1061891 **Prepared:** 04/28/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 04/28/23

Dil n Fac: 1.000 **Prep:** EPA 3050B

QC1061891 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 484123 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 312796 **Analysis:** EPA 6010B
Lab ID: QC1061884 **Prepared:** 04/28/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 05/01/23
Dln Fac: 1.000 **Prep:** EPA 3050B

QC1061884 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	50.98	102	80-120	ug/ft2

Type: BS **Batch#:** 312798 **Analysis:** EPA 6010B
Lab ID: QC1061889 **Prepared:** 04/28/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 04/28/23
Dln Fac: 1.000 **Prep:** EPA 3050B

QC1061889 Analyte	Spiked	Result	%REC	Limits	Units
Lead	50.00	56.11	112	80-120	ug/ft2

Type: BSD **Batch#:** 312796 **Analysis:** EPA 6010B
Lab ID: QC1061885 **Prepared:** 04/28/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 05/01/23
Dln Fac: 1.000 **Prep:** EPA 3050B

QC1061885 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	53.07	106	80-120	ug/ft2	4	20

Type: BSD **Batch#:** 312798 **Analysis:** EPA 6010B
Lab ID: QC1061890 **Prepared:** 04/28/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 04/28/23
Dln Fac: 1.000 **Prep:** EPA 3050B

QC1061890 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	50.00	53.74	107	80-120	ug/ft2	4	20

Legend

RPD: Relative Percent Difference

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
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enthalpy.com

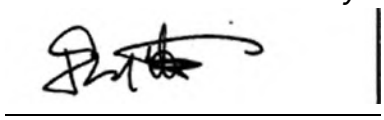
Lab Job Number:	476365
Report Level:	II
Report Date:	01/11/2023

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	476365
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	01/04/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-230103-P-LA	476365-001	01/03/23 09:25	Wipe
CLEAR-ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-230103-L-LA	476365-002	01/03/23 09:25	Wipe
CLEAR-SCAF-Z3EC-L26-230103-P	476365-003	01/03/23 09:35	Wipe
CLEAR-SCAF-Z3EC-L26-230103-L	476365-004	01/03/23 09:35	Wipe
CLEAR-ENC-Z3EC-L26-230103-P	476365-005	01/03/23 09:40	Wipe
CLEAR-ENC-Z3EC-L26-230103-L	476365-006	01/03/23 09:40	Wipe
CLEAR-ARCH-C4W-INT-2.5 TO 3.5-230103-P-WF	476365-007	01/03/23 10:10	Wipe
CLEAR-ARCH-C4W-INT-2.5 TO 3.5-230103-P-DUP-WF	476365-008	01/03/23 10:10	Wipe
CLEAR-ARCH-C4W-INT-2.5 TO 3.5-230103-L-WF	476365-009	01/03/23 10:10	Wipe
CLEAR-SCAF-Z3EC-L23-230103-P	476365-010	01/03/23 10:15	Wipe
CLEAR-SCAF-Z3EC-L23-230103-L	476365-011	01/03/23 10:15	Wipe
CLEAR-ENC-Z3EC-L23-230103-P	476365-012	01/03/23 10:20	Wipe
CLEAR-ENC-Z3EC-L23-230103-L	476365-013	01/03/23 10:20	Wipe
CLEAR-ARCH-C4W-EXT-4 TO 5-230103-P-WF	476365-014	01/03/23 10:50	Wipe
CLEAR-ARCH-C4W-EXT-4 TO 5-230103-L-WF	476365-015	01/03/23 10:50	Wipe
CLEAR-SCAF-Z3EC-L20-230103-P	476365-016	01/03/23 10:55	Wipe
CLEAR-SCAF-Z3EC-L20-230103-L	476365-017	01/03/23 10:55	Wipe
CLEAR-SCAF-Z3EC-L20-230103-L-DUP	476365-018	01/03/23 10:55	Wipe
CLEAR-ENC-Z3EC-L20-230103-P	476365-019	01/03/23 11:00	Wipe

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	476365
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	01/04/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ENC-Z3EC-L20-230103-L	476365-020	01/03/23 11:00	Wipe
CLEAR-MEDBLANK-230103-P	476365-021	01/03/23 09:20	Wipe
CLEAR-MEDBLANK-230103-L	476365-022	01/03/23 09:20	Wipe

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 476365 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 01/04/23

This data package contains sample and QC results for twenty two wipe samples, requested for the above referenced project on 01/04/23. The samples were received cold and intact.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

476365

11.6/123

ENTHALPY ANALYTICAL

Chain of Custody Record — COC ID:

Page: 1 of 3

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm² basis

Report lead concentrations on a µg/ft² basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure C/D (JG 1-10-23)

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
1	CLEAR-ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-230103-P-LA	1/3/2023	0925	WP	1		X		
2	CLEAR-ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-230103-L-LA	1/3/2023	0925	WP	1			X	
3	CLEAR-SCAF-Z3EC-L26-230103-P	1/3/2023	0935	WP	1		X		
4	CLEAR-SCAF-Z3EC-L26-230103-L	1/3/2023	0935	WP	1			X	
5	CLEAR-ENC-Z3EC-L26-230103-P	1/3/2023	0940	WP	1		X		
6	CLEAR-ENC-Z3EC-L26-230103-L	1/3/2023	0940	WP	1			X	
7	CLEAR-ARCH-C4W-INT-2.5 TO 3.5-230103-P-WF	1/3/2023	1010	WP	1		X		
8	CLEAR-ARCH-C4W-INT-2.5 TO 3.5-230103-P-DUP-WF	1/3/2023	1010	WP	1		X		
9	CLEAR-ARCH-C4W-INT-2.5 TO 3.5-230103-L-WF	1/3/2023	1010	WP	1			X	
10	CLEAR-SCAF-Z3EC-L23-230103-P	1/3/2023	1015	WP	1		X		
11	CLEAR-SCAF-Z3EC-L23-230103-L	1/3/2023	1015	WP	1			X	
12	CLEAR-ENC-Z3EC-L23-230103-P	1/3/2023	1020	WP	1		X		
13	CLEAR-ENC-Z3EC-L23-230103-L	1/3/2023	1020	WP	1			X	
14	CLEAR-ARCH-C4W-EXT-4 TO 5-230103-P-WF	1/3/2023	1050	WP	1		X		
15	CLEAR-ARCH-C4W-EXT-4 TO 5-230103-L-WF	1/3/2023	1050	WP	1			X	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Michaela Kim	Rincon/Env Scientist	1/3/23 @ 1600
[1] Received By:		Annaleyia Smallcomb	EA	1/4/23 1005 G.S.
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

476365

11.6/12.3

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 2 of 3

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

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Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm² basis

Report lead concentrations on a µg/ft² basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure C/D (JG 1-10-23

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	
16	CLEAR-SCAF-Z3EC-L20-230103-P	1/3/2023	1055	WP	1		X			
17	CLEAR-SCAF-Z3EC-L20-230103-L	1/3/2023	1055	WP	1			X		
18	CLEAR-SCAF-Z3EC-L20-230103-L-DUP	1/3/2023	1055	WP	1			X		
19	CLEAR-ENC-Z3EC-L20-230103-P	1/3/2023	1100	WP	1		X			
20	CLEAR-ENC-Z3EC-L20-230103-L	1/3/2023	1100	WP	1			X		
21	~~CLEAR-ARCH-C3W-DG-3 TO 3.5-UP-C3.6-VS-230103-P-LA~~	1/3/2023		WP	1		X			TS
22	~~CLEAR-ARCH-C3W-DG-3 TO 3.5-UP-C3.6-VS-230103-L-LA~~	1/3/2023		WP	1			X		TS
23	~~CLEAR-SCAF-Z3EC-L17-230103-P~~	1/3/2023		WP	1		X			TS
24	~~CLEAR-SCAF-Z3EC-L17-230103-L~~	1/3/2023		WP	1			X		TS
25	~~CLEAR-ENC-Z3EC-L17-230103-P~~	1/3/2023		WP	1		X			TS
26	~~CLEAR-ENC-Z3EC-L17-230103-L~~	1/3/2023		WP	1			X		TS
27	~~CLEAR-ARCH-C5W-DG-5.5 TO 6-230103-P-LA~~	1/3/2023		WP	1		X			TS
28	~~CLEAR-ARCH-C5W-DG-5.5 TO 6-230103-L-LA~~	1/3/2023		WP	1			X		TS
29	~~CLEAR-SCAF-Z3EC-L15-230103-P~~	1/3/2023		WP	1		X			TS
30	~~CLEAR-SCAF-Z3EC-L15-230103-L~~	1/3/2023		WP	1			X		TS

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Michaela Kim	Rincon/Env Scientist	1/3/23 C/1600
[1] Received By:		Annaleigh Smallcomb	EA	1/3/23 1005
[2] Relinquished By:				4 G.S.
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

476365 11.6/12.3

ENTHALPY ANALYTICAL

Chain of Custody Record COC ID:

Page: 3 of 3

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	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
31	~~CLEAR-ENC-Z3BC-L13-230103-P~~	~~1/3/2023~~		WP	1		X			TS
32	~~CLEAR-ENC-Z3BC-L13-230103-L~~	~~1/3/2023~~		WP	1			X		TS
33	CLEAR-MEDBLANK-230103-P	1/3/2023	0920	WP	1		X			Collected from Low Occupancy zone of Hangar 1
34	CLEAR-MEDBLANK-230103-L	1/3/2023	0920	WP	1			X		Collected from Low Occupancy zone of Hangar 1
35										
36										
37										
38										
39										
40										
41										
42										
43										
44										
45										

Clearance Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm² basis

Report lead concentrations on a µg/ft² basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure C/D (JG 1-10-23)

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Michaela Krim	Rincon/Env Scientist	1/3/23 @1600
[1] Received By:		Annalesia Smallcomb	EA	1/4/23 1005
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

The below sample checklist was complete after the samples were shipped directly to Enthalpy Analytical in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1- NCTRA WP

Date Received: 1/4/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 12.3 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 11.6 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✓		
Are sample IDs present?	✓		
Are sampling dates & times present?	✓		
Is a relinquished signature present?	✓		
Are the tests required clearly indicated on the COC?	✓		
Are custody seals present? 1/5/23 G.S.	✓	—	
If custody seals are present, were they intact?	✓		—
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✓
Did all samples arrive intact? If no, indicate in Section 4 below.	✓		
Did all bottle labels agree with COC? (ID, dates and times)	✓		
Were the samples collected in the correct containers for the required tests?	✓		
Are the containers labeled with the correct preservatives?	✓		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✓
Was a sufficient amount of sample submitted for the requested tests?	✓		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 1/4/23

ORIGIN ID:NUQA (619) 977-6886
KERRY CAMPBELL

1935 W EL CAMINO REAL

MOUNTAIN VIEW, CA 94040
UNITED STATES US

SHIP DATE: 03JAN23
ACTWGT: 35.00 LB
CAD: 254485286/INET4530
DIMS: 23x13x14 IN

BILL SENDER

TO **SAMPLE RECEIVING**
ENTHALPY ANALYTICAL
931 W BARKLEY AVE

ORANGE CA 92868
(510) 204-2233
INV:
PO: 20-10491

REF: MOFFETT
DEPT:

581J1/DB09/FE2D

FedEx Express

J224222180180tw

WED - 04 JAN 10:30A
PRIORITY OVERNIGHT

TRK# 0201 **7709 3294 8851**

92 APVA

92868
SNA
CA-US

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Enthalpy Analytical - Orange Analytical Report

Lab #: 476365 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-230103-P-LA **Batch#:** 304612 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 8082

Lab ID: 476365-001 **Received:** 01/04/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/05/23

DiIn Fac: 1.000 **Analyzed:** 01/06/23

476365-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476365-001 Surrogate	%REC	Limits
TCMX (PCB)	82	19-121
Decachlorobiphenyl (PCB)	69	19-121

Field ID: CLEAR-SCAF-Z3EC-L26-230103-P **Batch#:** 304612 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 8082

Lab ID: 476365-003 **Received:** 01/04/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/05/23

DiIn Fac: 1.000 **Analyzed:** 01/06/23

476365-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476365-003 Surrogate	%REC	Limits
TCMX (PCB)	76	19-121
Decachlorobiphenyl (PCB)	66	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 476365 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EC-L26-230103-P **Batch#:** 304612 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 8082

Lab ID: 476365-005 **Received:** 01/04/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/05/23

Diln Fac: 1.000 **Analyzed:** 01/06/23

476365-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476365-005 Surrogate	%REC	Limits
TCMX (PCB)	83	19-121
Decachlorobiphenyl (PCB)	66	19-121

Field ID: CLEAR-ARCH-C4W-INT-2.5 TO 3.5-230103-P-WF **Batch#:** 304612 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 8082

Lab ID: 476365-007 **Received:** 01/04/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/05/23

Diln Fac: 1.000 **Analyzed:** 01/06/23

476365-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476365-007 Surrogate	%REC	Limits
TCMX (PCB)	82	19-121
Decachlorobiphenyl (PCB)	68	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 476365 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C4W-INT-2.5 TO 3.5-230103-P-DUP-WF **Batch#:** 304612 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 8082

Lab ID: 476365-008 **Received:** 01/04/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/05/23

Diln Fac: 1.000 **Analyzed:** 01/06/23

476365-008 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476365-008 Surrogate	%REC	Limits
TCMX (PCB)	79	19-121
Decachlorobiphenyl (PCB)	63	19-121

Field ID: CLEAR-SCAF-Z3EC-L23-230103-P **Batch#:** 304612 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 8082

Lab ID: 476365-010 **Received:** 01/04/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/05/23

Diln Fac: 1.000 **Analyzed:** 01/06/23

476365-010 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476365-010 Surrogate	%REC	Limits
TCMX (PCB)	70	19-121
Decachlorobiphenyl (PCB)	57	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 476365 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EC-L23-230103-P **Batch#:** 304612 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 8082

Lab ID: 476365-012 **Received:** 01/04/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/05/23

Diln Fac: 1.000 **Analyzed:** 01/06/23

476365-012 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476365-012 Surrogate	%REC	Limits
TCMX (PCB)	63	19-121
Decachlorobiphenyl (PCB)	51	19-121

Field ID: CLEAR-ARCH-C4W-EXT-4 TO 5-230103-P-WF **Batch#:** 304612 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 8082

Lab ID: 476365-014 **Received:** 01/04/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/05/23

Diln Fac: 1.000 **Analyzed:** 01/06/23

476365-014 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476365-014 Surrogate	%REC	Limits
TCMX (PCB)	65	19-121
Decachlorobiphenyl (PCB)	54	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 476365 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3EC-L20-230103-P **Batch#:** 304612 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 8082

Lab ID: 476365-016 **Received:** 01/04/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/05/23

Diln Fac: 1.000 **Analyzed:** 01/06/23

476365-016 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476365-016 Surrogate	%REC	Limits
TCMX (PCB)	68	19-121
Decachlorobiphenyl (PCB)	58	19-121

Field ID: CLEAR-ENC-Z3EC-L20-230103-P **Batch#:** 304612 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 8082

Lab ID: 476365-019 **Received:** 01/04/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/05/23

Diln Fac: 1.000 **Analyzed:** 01/06/23

476365-019 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476365-019 Surrogate	%REC	Limits
TCMX (PCB)	70	19-121
Decachlorobiphenyl (PCB)	57	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 476365 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-MEDBLANK-230103-P **Batch#:** 304612 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 8082

Lab ID: 476365-021 **Received:** 01/04/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/05/23

Diln Fac: 1.000 **Analyzed:** 01/06/23

476365-021 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476365-021 Surrogate	%REC	Limits
TCMX (PCB)	76	19-121
Decachlorobiphenyl (PCB)	78	19-121

Type: BLANK **Batch#:** 304612 **Analysis:** EPA 8082

Lab ID: QC1036525 **Prepared:** 01/05/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 01/06/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1036525 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1036525 Surrogate	%REC	Limits
TCMX (PCB)	90	19-121
Decachlorobiphenyl (PCB)	90	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 476365 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 304612 **Analysis:** EPA 8082

Lab ID: QC1036526 **Prepared:** 01/05/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 01/06/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1036526 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.976	80	60-140	ug/100 cm2
Aroclor-1260	5.000	3.867	77	60-140	ug/100 cm2

QC1036526 Surrogate	%REC	Limits
TCMX (PCB)	83	19-121
Decachlorobiphenyl (PCB)	70	19-121

Type: BSD **Batch#:** 304612 **Analysis:** EPA 8082

Lab ID: QC1036527 **Prepared:** 01/05/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 01/06/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1036527 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	4.409	88	60-140	ug/100 cm2	10	20
Aroclor-1260	5.000	4.556	91	60-140	ug/100 cm2	16	20

QC1036527 Surrogate	%REC	Limits
TCMX (PCB)	89	19-121
Decachlorobiphenyl (PCB)	81	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 476365 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C3W-DG-1.5 TO 2-DN-C3W-DG-230103-L-LA **Batch#:** 304575 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 6010B
Lab ID: 476365-002 **Received:** 01/04/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/04/23
Diln Fac: 1.000 **Analyzed:** 01/05/23

476365-002 Analyte	Result	RL	Units
Lead	**58**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EC-L26-230103-L **Batch#:** 304575 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 6010B
Lab ID: 476365-004 **Received:** 01/04/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/04/23
Diln Fac: 1.000 **Analyzed:** 01/05/23

476365-004 Analyte	Result	RL	Units
Lead	**110**	0.25	ug/ft2

Field ID: CLEAR-ENC-Z3EC-L26-230103-L **Batch#:** 304575 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 6010B
Lab ID: 476365-006 **Received:** 01/04/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/04/23
Diln Fac: 1.000 **Analyzed:** 01/05/23

476365-006 Analyte	Result	RL	Units
Lead	**48**	0.25	ug/ft2

Field ID: CLEAR-ARCH-C4W-INT-2.5 TO 3.5-230103-L-WF **Batch#:** 304575 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 6010B
Lab ID: 476365-009 **Received:** 01/04/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/04/23
Diln Fac: 1.000 **Analyzed:** 01/05/23

476365-009 Analyte	Result	RL	Units
Lead	**210**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EC-L23-230103-L **Batch#:** 304575 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 6010B
Lab ID: 476365-011 **Received:** 01/04/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/04/23
Diln Fac: 10.00 **Analyzed:** 01/05/23

476365-011 Analyte	Result	RL	Units	Qual
Lead	**820**	2.5	ug/ft2	b

ENTHALPY ANALYTICAL

Lead

Lab #: 476365 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EC-L23-230103-L **Batch#:** 304575 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 6010B
Lab ID: 476365-013 **Received:** 01/04/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/04/23
Dlln Fac: 1.000 **Analyzed:** 01/05/23

476365-013 Analyte	Result	RL	Units
Lead	**42**	0.25	ug/ft2

Field ID: CLEAR-ARCH-C4W-EXT-4 TO 5-230103-L-WF **Batch#:** 304575 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 6010B
Lab ID: 476365-015 **Received:** 01/04/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/04/23
Dlln Fac: 1.000 **Analyzed:** 01/05/23

476365-015 Analyte	Result	RL	Units
Lead	**120**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EC-L20-230103-L **Batch#:** 304575 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 6010B
Lab ID: 476365-017 **Received:** 01/04/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/04/23
Dlln Fac: 1.000 **Analyzed:** 01/05/23

476365-017 Analyte	Result	RL	Units
Lead	**240**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EC-L20-230103-L-DUP **Batch#:** 304575 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 6010B
Lab ID: 476365-018 **Received:** 01/04/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/04/23
Dlln Fac: 1.000 **Analyzed:** 01/05/23

476365-018 Analyte	Result	RL	Units
Lead	**400**	0.25	ug/ft2

Field ID: CLEAR-ENC-Z3EC-L20-230103-L **Batch#:** 304575 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/03/23 **Analysis:** EPA 6010B
Lab ID: 476365-020 **Received:** 01/04/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/04/23
Dlln Fac: 1.000 **Analyzed:** 01/05/23

476365-020 Analyte	Result	RL	Units
Lead	**160**	0.25	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 476365 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID:	CLEAR-MEDBLANK-230103-L	**Batch#:**	304575	**Prep:**	EPA 3050B
Type:	SAMPLE	**Sampled:**	01/03/23	**Analysis:**	EPA 6010B
Lab ID:	476365-022	**Received:**	01/04/23	**Analyst:**	SBW
Matrix:	Wipe	**Prepared:**	01/04/23		
DiIn Fac:	1.000	**Analyzed:**	01/05/23		

476365-022 Analyte	Result	RL	Units
Lead	**1.8**	0.25	ug/ft2

Type:	BLANK	**Batch#:**	304575	**Analysis:**	EPA 6010B
Lab ID:	QC1036383	**Prepared:**	01/04/23	**Analyst:**	SBW
Matrix:	Wipe	**Analyzed:**	01/05/23		
DiIn Fac:	1.000	**Prep:**	EPA 3050B		

QC1036383 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

b: See narrative

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 476365 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 304575 **Analysis:** EPA 6010B

Lab ID: QC1036384 **Prepared:** 01/04/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 01/05/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1036384 Analyte	Spiked	Result	%REC	Limits	Units
Lead	100.0	83.22	83	80-120	ug/ft2

Type: BSD **Batch#:** 304575 **Analysis:** EPA 6010B

Lab ID: QC1036385 **Prepared:** 01/04/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 01/05/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1036385 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	100.0	84.71	85	80-120	ug/ft2	2	20

Legend

RPD: Relative Percent Difference

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

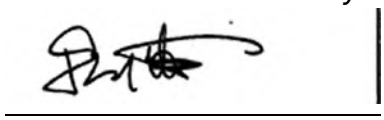
Lab Job Number:	476653
Report Level:	II
Report Date:	01/16/2023

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	476653
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	01/06/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-230105-P-LA	476653-001	01/05/23 12:35	Wipe
CLEAR-ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-230105-L-LA	476653-002	01/05/23 12:35	Wipe
CLEAR-SCAF-Z3EC-L17-230105-P	476653-003	01/05/23 12:35	Wipe
CLEAR-SCAF-Z3EC-L17-230105-L	476653-004	01/05/23 12:35	Wipe
CLEAR-ENC-Z3EC-L17-230105-P	476653-005	01/05/23 12:35	Wipe
CLEAR-ENC-Z3EC-L17-230105-L	476653-006	01/05/23 12:35	Wipe
CLEAR-ARCH-C5W-DG-5.5 TO 6-230105-P-FB	476653-007	01/05/23 13:20	Wipe
CLEAR-ARCH-C5W-DG-5.5 TO 6-230105-L-FB	476653-008	01/05/23 13:20	Wipe
CLEAR-SCAF-Z3EC-L15-230105-P	476653-009	01/05/23 13:20	Wipe
CLEAR-SCAF-Z3EC-L15-230105-L	476653-010	01/05/23 13:20	Wipe
CLEAR-ENC-Z3EC-L15-230105-P	476653-011	01/05/23 13:20	Wipe
CLEAR-ENC-Z3EC-L15-230105-L	476653-012	01/05/23 13:20	Wipe

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 476653 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 01/06/23

This data package contains sample and QC results for ten wipe samples, requested for the above referenced project on 01/06/23. The samples were received cold and intact.

PCBs (EPA 8082):

No analytical problems were encountered.

Metals (EPA 6010B):

- Due to lab error, CLEAR-ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-230105-L-LA and CLEAR-SCAF-Z3EC-L17-230105-L could not be analyzed.
- An interference check standard recovered slightly low for lead in the presence of high concentrations of aluminum. As it relates to these samples, the bias is insignificant; results are flagged "b", but there is no effect on the data quality.
- No analytical problems were encountered.

476653

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:	X (PCBs)	5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	D.Welsh

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
1	CLEAR-ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-230105-P-LA	1/5/2023	1235	WP	1		X		
2	CLEAR-ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-230105-L-LA	1/5/2023	1235	WP	1			X	
3	CLEAR-SCAP-Z3EC-L17-230105-P	1/5/2023	1235	WP	1		X		
4	CLEAR-SCAP-Z3EC-L17-230105-L	1/5/2023	1235	WP	1			X	
5	CLEAR-ENC-Z3EC-L17-230105-P	1/5/2023	1235	WP	1		X		
6	CLEAR-ENC-Z3EC-L17-230105-L	1/5/2023	1235	WP	1			X	
7	CLEAR-ARCH-C5W-DG-5.5 TO 6-230105-P-FB	1/5/2023	1320	WP	1		X		
8	CLEAR-ARCH-C5W-DG-5.5 TO 6-230105-L-FB	1/5/2023	1320	WP	1			X	
9	CLEAR-SCAF-Z3EC-L15-230105-P	1/5/2023	1320	WP	1		X		
10	CLEAR-SCAF-Z3EC-L15-230105-L	1/5/2023	1320	WP	1			X	
11	CLEAR-ENC-Z3EC-L15-230105-P	1/5/2023	1320	WP	1		X		
12	CLEAR-ENC-Z3EC-L15-230105-L	1/5/2023	1320	WP	1			X	
13									
14									
15									

Analysis Request

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm² basis

Report lead concentrations on a µg/ft² basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Wipe samples collected from Zone 3 Enclosure C

1x Rivet Type 2 = 0.0100 ft²

2x Rivet Type 2 = 0.0200 ft²

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Donald Welsh	Rincon Consultants, Inc.	1/5/23 @ 1430
[1] Received By:				1-5-23 834
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

5.5 / 1.3 GF

The below sample checklist was complete after the samples were shipped directly to Enthalpy Analytical in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 1/6/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 5.5 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 1.3 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 1-6-23



After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

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Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide, available on fedex.com.FedEx will not be responsible for any claim in excess of $100 per package, whether the result of loss, damage, delay, non-delivery,misdelivery,or misinformation, unless you declare a higher value, pay an additional charge, document your actual loss and file a timely claim.Limitations found in the current FedEx Service Guide apply. Your right to recover from FedEx for any loss, including intrinsic value of the package, loss of sales, income interest, profit, attorney's fees, costs, and other forms of damage whether direct, incidental,consequential, or special is limited to the greater of $100 or the authorized declared value. Recovery cannot exceed actual documented loss.Maximum for items of extraordinary value is $1,000, e.g. jewelry, precious metals, negotiable instruments and other items listed in our ServiceGuide. Written claims must be filed within strict time limits, see current FedEx Service Guide.

Enthalpy Analytical - Orange Analytical Report

Lab #: 476653 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-230105-P-LA **Batch#:** 304813 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/05/23 **Analysis:** EPA 8082

Lab ID: 476653-001 **Received:** 01/06/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/09/23

DiIn Fac: 1.000 **Analyzed:** 01/09/23

476653-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476653-001 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	64	19-121

Field ID: CLEAR-SCAF-Z3EC-L17-230105-P **Batch#:** 304813 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/05/23 **Analysis:** EPA 8082

Lab ID: 476653-003 **Received:** 01/06/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/09/23

DiIn Fac: 1.000 **Analyzed:** 01/09/23

476653-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476653-003 Surrogate	%REC	Limits
TCMX (PCB)	66	19-121
Decachlorobiphenyl (PCB)	59	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 476653 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EC-L17-230105-P **Batch#:** 304813 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/05/23 **Analysis:** EPA 8082

Lab ID: 476653-005 **Received:** 01/06/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/09/23

Diln Fac: 1.000 **Analyzed:** 01/09/23

476653-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476653-005 Surrogate	%REC	Limits
TCMX (PCB)	69	19-121
Decachlorobiphenyl (PCB)	61	19-121

Field ID: CLEAR-ARCH-C5W-DG-5.5 TO 6-230105-P-FB **Batch#:** 304813 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/05/23 **Analysis:** EPA 8082

Lab ID: 476653-007 **Received:** 01/06/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/09/23

Diln Fac: 1.000 **Analyzed:** 01/09/23

476653-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476653-007 Surrogate	%REC	Limits
TCMX (PCB)	75	19-121
Decachlorobiphenyl (PCB)	65	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 476653 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3EC-L15-230105-P **Batch#:** 304813 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/05/23 **Analysis:** EPA 8082

Lab ID: 476653-009 **Received:** 01/06/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/09/23

Diln Fac: 1.000 **Analyzed:** 01/09/23

476653-009 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476653-009 Surrogate	%REC	Limits
TCMX (PCB)	74	19-121
Decachlorobiphenyl (PCB)	63	19-121

Field ID: CLEAR-ENC-Z3EC-L15-230105-P **Batch#:** 304813 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 01/05/23 **Analysis:** EPA 8082

Lab ID: 476653-011 **Received:** 01/06/23 **Analyst:** MES

Matrix: Wipe **Prepared:** 01/09/23

Diln Fac: 1.000 **Analyzed:** 01/09/23

476653-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

476653-011 Surrogate	%REC	Limits
TCMX (PCB)	49	19-121
Decachlorobiphenyl (PCB)	42	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 476653 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BLANK **Batch#:** 304813 **Analysis:** EPA 8082

Lab ID: QC1037156 **Prepared:** 01/09/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 01/09/23

Dil'n Fac: 1.000 **Prep:** EPA 3546

QC1037156 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1037156 Surrogate	%REC	Limits
TCMX (PCB)	76	19-121
Decachlorobiphenyl (PCB)	74	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 476653 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 304813 **Analysis:** EPA 8082

Lab ID: QC1037157 **Prepared:** 01/09/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 01/09/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1037157 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	4.230	85	60-140	ug/100 cm2
Aroclor-1260	5.000	3.826	77	60-140	ug/100 cm2

QC1037157 Surrogate	%REC	Limits
TCMX (PCB)	83	19-121
Decachlorobiphenyl (PCB)	77	19-121

Type: BSD **Batch#:** 304813 **Analysis:** EPA 8082

Lab ID: QC1037158 **Prepared:** 01/09/23 **Analyst:** MES

Matrix: Wipe **Analyzed:** 01/09/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1037158 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	4.349	87	60-140	ug/100 cm2	3	20
Aroclor-1260	5.000	3.988	80	60-140	ug/100 cm2	4	20

QC1037158 Surrogate	%REC	Limits
TCMX (PCB)	86	19-121
Decachlorobiphenyl (PCB)	79	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 476653 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3EC-L17-230105-L **Batch#:** 304848 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/05/23 **Analysis:** EPA 6010B
Lab ID: 476653-006 **Received:** 01/06/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/06/23
Diln Fac: 1.000 **Analyzed:** 01/06/23

476653-006 Analyte	Result	RL	Units	Qual
Lead	**40**	0.25	ug/ft2	b

Field ID: CLEAR-ARCH-C5W-DG-5.5 TO 6-230105-L-FB **Batch#:** 304848 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/05/23 **Analysis:** EPA 6010B
Lab ID: 476653-008 **Received:** 01/06/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/06/23
Diln Fac: 1.000 **Analyzed:** 01/06/23

476653-008 Analyte	Result	RL	Units	Qual
Lead	**130**	0.25	ug/ft2	b

Field ID: CLEAR-SCAF-Z3EC-L15-230105-L **Batch#:** 304848 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/05/23 **Analysis:** EPA 6010B
Lab ID: 476653-010 **Received:** 01/06/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/06/23
Diln Fac: 1.000 **Analyzed:** 01/06/23

476653-010 Analyte	Result	RL	Units	Qual
Lead	**280**	0.25	ug/ft2	b

Field ID: CLEAR-ENC-Z3EC-L15-230105-L **Batch#:** 304848 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/05/23 **Analysis:** EPA 6010B
Lab ID: 476653-012 **Received:** 01/06/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/06/23
Diln Fac: 1.000 **Analyzed:** 01/06/23

476653-012 Analyte	Result	RL	Units	Qual
Lead	**17**	0.25	ug/ft2	b

Type: BLANK **Batch#:** 304848 **Analysis:** EPA 6010B
Lab ID: QC1037272 **Prepared:** 01/06/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 01/06/23
Diln Fac: 1.000 **Prep:** EPA 3050B

QC1037272 Analyte	Result	RL	Units	Qual
Lead	ND	0.25	ug/ft2	b

Legend
ND: Not Detected
RL: Reporting Limit
b: See narrative

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 476653 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 304848 **Analysis:** EPA 6010B

Lab ID: QC1037273 **Prepared:** 01/06/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 01/06/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1037273 Analyte	Spiked	Result	%REC	Limits	Units	Qual
Lead	100.0	92.16	92	80-120	ug/ft2	b

Type: BSD **Batch#:** 304848 **Analysis:** EPA 6010B

Lab ID: QC1037274 **Prepared:** 01/06/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 01/06/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1037274 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
Lead	100.0	93.96	94	80-120	ug/ft2	2	20	b

Legend

RPD: Relative Percent Difference

b: See narrative

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931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

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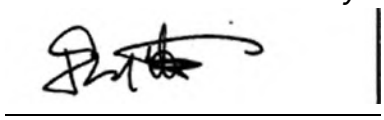
Lab Job Number:	476779
Report Level:	II
Report Date:	01/09/2023

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	476779
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	01/07/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-230106-L-LA	476779-001	01/06/23 15:05	Wipe
CLEAR-SCAF-Z3EC-L17-230106-L	476779-002	01/06/23 15:10	Wipe

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 476779 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 01/07/23

This data package contains sample and QC results for two wipe samples, requested for the above referenced project on 01/07/23. The samples were received cold and intact.

Metals (EPA 6010B):
No analytical problems were encountered.

476779

ENTHALPY ANALYTICAL

Chain of Custody Record

COC ID:

Page: 1 of 1

Turn Around Time (rush by advanced notice only)					
Standard:		5 Day:		3 Day:	
2 Day:		1 Day:	X (Pb)	Custom TAT:	

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	Mikim

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
1	CLEAR-ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-230106-L-LA	1/6/2023	1505	WP	1			X		2x Rivet Type 2 = 0.0200ft²
2	CLEAR-SCAF-Z3EC-L17-230106-L	1/6/2023	1510	WP	1			X		
3										
4										
5										
6										
7										
8										
9										
10										
11										
12										
13										
14										
15										

Clearance Wipe Samples - Level II Report/Stage 2A Validation

Report lead concentrations on a µg/ft² basis

Wipe samples collected from Zone 3 Enclosure C

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Michaela Kim	Rincon Env. Scientist	1/6/23 @ 1730
[1] Received By:		Elizabeth Kramer	EA - Orange	1/7/23 10:56AM
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

The below sample checklist was complete after the samples were shipped directly to Enthalpy Analytical in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants, Inc. Project: Hangar 1 -NCTRA WP

Date Received: 01/07/2023 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 2.0 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☑ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 0.5 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)	✔		
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?	✔		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Custody seal on cooler.

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 1/7/23

ORIGIN ID:NUQA (619) 977-6886
KERRY CAMPBELL

1935 W EL CAMINO REAL

MOUNTAIN VIEW, CA 94040
UNITED STATES US

SHIP DATE: 06JAN23
ACTWGT: 30.00 LB
CAD: 254485286/INET4530
DIMS: 23x13x14 IN

BILL SENDER

TO **SAMPLE RECEIVING**
ENTHALPY ANALYTICAL
931 W BARKLEY AVE

ORANGE CA 92868
(510) 204-2233 REF: MOFFETT
INV:
PO: 20-10491 DEPT:

581J2/D297/FE2D

FedEx Express

SATURDAY 12:00P
PRIORITY OVERNIGHT

TRK# 0201 **7709 6473 3491**

W0 APVA

92868
CA-US **SNA**

After printing this label:
1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: Use only the printed original label for shipping. Using a photocopy of this label for shipping purposes is fraudulent and could result in additional billing charges, along with the cancellation of your FedEx account number.
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FedEx
TRK# 0201 **7709 6473 3491**

SATURDAY 12:00P
PRIORITY OVERNIGHT

W0 APVA

92868
CA-US **SNA**

#3970311 01/06 581J2/D297/FE2D

RT149 ST 12 3491 12.00 A 01.07

0.5 / 2.0

1/7/23
10:56 Am
Custody Seal on Cooler - Intact

ENTHALPY ANALYTICAL

Lead

Lab #: 476779 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C3W-DG-5 TO 5.5-UP-C3.6-VS-230106-L-LA **Batch#:** 304830 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/06/23 **Analysis:** EPA 6010B
Lab ID: 476779-001 **Received:** 01/07/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/09/23
Diln Fac: 1.000 **Analyzed:** 01/09/23

476779-001 Analyte	Result	RL	Units
Lead	**1,000**	0.25	ug/ft2

Field ID: CLEAR-SCAF-Z3EC-L17-230106-L **Batch#:** 304830 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 01/06/23 **Analysis:** EPA 6010B
Lab ID: 476779-002 **Received:** 01/07/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 01/09/23
Diln Fac: 1.000 **Analyzed:** 01/09/23

476779-002 Analyte	Result	RL	Units
Lead	**74**	0.25	ug/ft2

Type: BLANK **Batch#:** 304830 **Analysis:** EPA 6010B
Lab ID: QC1037205 **Prepared:** 01/09/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 01/09/23
Diln Fac: 1.000 **Prep:** EPA 3050B

QC1037205 Analyte	Result	RL	Units
Lead	ND	0.25	ug/ft2

Legend
ND: Not Detected
RL: Reporting Limit

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 476779 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 304830 **Analysis:** EPA 6010B

Lab ID: QC1037206 **Prepared:** 01/09/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 01/09/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1037206 Analyte	Spiked	Result	%REC	Limits	Units
Lead	100.0	104.8	105	80-120	ug/ft2

Type: BSD **Batch#:** 304830 **Analysis:** EPA 6010B

Lab ID: QC1037207 **Prepared:** 01/09/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 01/09/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1037207 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	100.0	108.6	109	80-120	ug/ft2	4	20

Legend

RPD: Relative Percent Difference

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Orange, CA 92868
(714) 771-6900

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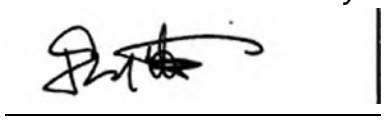
Lab Job Number:	479139
Report Level:	II
Report Date:	02/13/2023

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	479139
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	02/09/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-ARCH-C4W-DG-7 TO 7.5-230209-P-FB	479139-001	02/09/23 08:15	Wipe
CLEAR-ARCH-C4W-DG-7 TO 7.5-230209-L-FB	479139-002	02/09/23 08:15	Wipe
CLEAR-ARCH-C4W-DG-7 TO 7.5-230209-L-DUP-FB	479139-003	02/09/23 08:15	Wipe
CLEAR-SCAF-Z3ED-L10-230209-P	479139-004	02/09/23 08:20	Wipe
CLEAR-SCAF-Z3ED-L10-230209-L	479139-005	02/09/23 08:20	Wipe
CLEAR-ENC-Z3ED-L10-230209-P	479139-006	02/09/23 08:25	Wipe
CLEAR-ENC-Z3ED-L10-230209-L	479139-007	02/09/23 08:25	Wipe
CLEAR-ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230209-P-LA	479139-008	02/09/23 08:50	Wipe
CLEAR-ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230209-L-LA	479139-009	02/09/23 08:50	Wipe
CLEAR-SCAF-Z3ED-L8-230209-P	479139-010	02/09/23 08:55	Wipe
CLEAR-SCAF-Z3ED-L8-230209-L	479139-011	02/09/23 08:55	Wipe
CLEAR-ENC-Z3ED-L8-230209-P	479139-012	02/09/23 09:00	Wipe
CLEAR-ENC-Z3ED-L8-230209-P-DUP	479139-013	02/09/23 09:00	Wipe
CLEAR-ENC-Z3ED-L8-230209-L	479139-014	02/09/23 09:00	Wipe

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 479139 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 02/09/23

This data package contains sample and QC results for fourteen wipe samples, requested for the above referenced project on 02/10/23. The samples were received cold and intact.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

479139

ENTHALPY ANALYTICAL

Chain of Custody Record — COC ID:

Page: 1 of 1

Turn Around Time (rush by advanced notice only)

Standard:		5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	X (Pb & PCBs)

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
1	CLEAR-ARCH-C4W-DG-7 TO 7.5-230209-P-FB	2/9/2023	0815	WP	1		X		
2	CLEAR-ARCH-C4W-DG-7 TO 7.5-230209-L-FB	2/9/2023	0815	WP	1			X	
3	CLEAR-ARCH-C4W-DG-7 TO 7.5-230209-L-DUP-FB	2/9/2023	0815	WP	1			X	
4	CLEAR-SCAF-Z3ED-L10-230209-P	2/9/2023	0820	WP	1		X		
5	CLEAR-SCAF-Z3ED-L10-230209-L	2/9/2023	0820	WP	1			X	
6	CLEAR-ENC-Z3ED-L10-230209-P	2/9/2023	0825	WP	1		X		
7	CLEAR-ENC-Z3ED-L10-230209-L	2/9/2023	0825	WP	1			X	
8	CLEAR-ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230209-P-FB	2/9/2023	0850	WP	1		X		
9	CLEAR-ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230209-L-FB	2/9/2023	0850	WP	1			X	
10	CLEAR-SCAF-Z3ED-L8-230209-P	2/9/2023	0855	WP	1		X		
11	CLEAR-SCAF-Z3ED-L8-230209-L	2/9/2023	0855	WP	1			X	
12	CLEAR-ENC-Z3ED-L8-230209-P	2/9/2023	0900	WP	1		X		
13	CLEAR-ENC-Z3ED-L8-230209-P-DUP	2/9/2023	0900	WP	1		X		
14	CLEAR-ENC-Z3ED-L8-230209-L	2/9/2023	0900	WP	1			X	
15									

Analysis Request

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation
Report PCB concentrations on a µg/100cm² basis
Report lead concentrations on a µg/ft² basis
Report Aroclor 1268 concentrations in addition to the standard Aroclors
Results to be delivered by Saturday 2/11 for both Lead and PCB analysis

Wipe samples collected from Zone 3 Enclosure D (Low Occupncy)

2x Rivet Type 2 = 0.0200 ft²

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michael Akin	Rincon/Env Scientist	2/9/23@1250
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY "	2/9/23 @ 12:50
2 Relinquished By:	Audrey Hudson	AUDREY HUDSON	"	2/9/23 @ 15:13
2 Received By:		Marcus Hill USPS		2/9/23 15:13
3 Relinquished By:		Marcus Hill USPS		2/9/23 16:04
3 Received By:				2/10/23 0915

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 479139 Client: Rincon

Date Received: 2/9/23 Project: _____

ENTHALPY

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☑ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☑ Date: 2/9 How many 1 ☑ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No **(skip Section 3 below)**

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 2/9/23 By (print) MM (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☑ Bubble Wrap, ☐ Foam blocks, ☐ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer?			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? By Date:			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 2/9/23 **By (print)** MM **(sign)** _____

Date Labeled 2/9/23 **By (print)** MM **(sign)** _____

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 2/10/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 4.2 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 3.4 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 2/10/23

Cooler #4
w/ custody Seal

3.4 / 4.2

SOUTHWEST AIRLINES

Printed on:
09 FEB 16:08

526 OAK 8438 4285

SNA

PC# 4 OF 4 | G DG

LOT WT 145 LB (65.7 KG)

OAK WN 1738 09 FEB 19:25

STN FLT DATE ETD LOT 01

PC ID: 0004
PC WT: 36LB

526 84384285 0004

S

Enthalpy Analytical - Orange Analytical Report

Lab #: 479139 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C4W-DG-7 TO 7.5-230209-P-FB **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479139-001 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479139-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479139-001 Surrogate	%REC	Limits
TCMX (PCB)	57	19-121
Decachlorobiphenyl (PCB)	55	19-121

Field ID: CLEAR-SCAF-Z3ED-L10-230209-P **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479139-004 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479139-004 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479139-004 Surrogate	%REC	Limits
TCMX (PCB)	59	19-121
Decachlorobiphenyl (PCB)	53	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479139 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3ED-L10-230209-P **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479139-006 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479139-006 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479139-006 Surrogate	%REC	Limits
TCMX (PCB)	63	19-121
Decachlorobiphenyl (PCB)	55	19-121

Field ID: CLEAR-ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230209-P-LA **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479139-008 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479139-008 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479139-008 Surrogate	%REC	Limits
TCMX (PCB)	66	19-121
Decachlorobiphenyl (PCB)	57	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479139 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3ED-L8-230209-P **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479139-010 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479139-010 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479139-010 Surrogate	%REC	Limits
TCMX (PCB)	51	19-121
Decachlorobiphenyl (PCB)	46	19-121

Field ID: CLEAR-ENC-Z3ED-L8-230209-P **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479139-012 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479139-012 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479139-012 Surrogate	%REC	Limits
TCMX (PCB)	28	19-121
Decachlorobiphenyl (PCB)	28	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479139 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3ED-L8-230209-P-DUP **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479139-013 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479139-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479139-013 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	64	19-121

Type: BLANK **Batch#:** 307261 **Analysis:** EPA 8082

Lab ID: QC1044655 **Prepared:** 02/10/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 02/10/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1044655 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1044655 Surrogate	%REC	Limits
TCMX (PCB)	53	19-121
Decachlorobiphenyl (PCB)	58	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 479139 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 307261 **Analysis:** EPA 8082

Lab ID: QC1044656 **Prepared:** 02/10/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 02/10/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1044656 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.215	64	60-140	ug/100 cm2
Aroclor-1260	5.000	3.476	70	60-140	ug/100 cm2

QC1044656 Surrogate	%REC	Limits
TCMX (PCB)	62	19-121
Decachlorobiphenyl (PCB)	66	19-121

Type: BSD **Batch#:** 307261 **Analysis:** EPA 8082

Lab ID: QC1044657 **Prepared:** 02/10/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 02/10/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1044657 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.248	65	60-140	ug/100 cm2	1	20
Aroclor-1260	5.000	3.562	71	60-140	ug/100 cm2	2	20

QC1044657 Surrogate	%REC	Limits
TCMX (PCB)	61	19-121
Decachlorobiphenyl (PCB)	65	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 479139 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ARCH-C4W-DG-7 TO 7.5-230209-L-FB
Type: SAMPLE
Lab ID: 479139-002
Matrix: Wipe
Diln Fac: 1.000

Batch#: 307258
Sampled: 02/09/23
Received: 02/09/23
Prepared: 02/10/23
Analyzed: 02/10/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

479139-002 Analyte	Result	RL	Units
Lead	**3.7**	0.50	ug/ft2

Field ID: CLEAR-ARCH-C4W-DG-7 TO 7.5-230209-L-DUP-FB
Type: SAMPLE
Lab ID: 479139-003
Matrix: Wipe
Diln Fac: 1.000

Batch#: 307258
Sampled: 02/09/23
Received: 02/09/23
Prepared: 02/10/23
Analyzed: 02/10/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

479139-003 Analyte	Result	RL	Units
Lead	**11**	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z3ED-L10-230209-L
Type: SAMPLE
Lab ID: 479139-005
Matrix: Wipe
Diln Fac: 1.000

Batch#: 307258
Sampled: 02/09/23
Received: 02/09/23
Prepared: 02/10/23
Analyzed: 02/10/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

479139-005 Analyte	Result	RL	Units
Lead	**50**	0.50	ug/ft2

Field ID: CLEAR-ENC-Z3ED-L10-230209-L
Type: SAMPLE
Lab ID: 479139-007
Matrix: Wipe
Diln Fac: 1.000

Batch#: 307258
Sampled: 02/09/23
Received: 02/09/23
Prepared: 02/10/23
Analyzed: 02/10/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

479139-007 Analyte	Result	RL	Units
Lead	**60**	0.50	ug/ft2

Field ID: CLEAR-ARCH-C3W-DG-7.5 TO 9-DN-C3.2-VS-230209-L-LA
Type: SAMPLE
Lab ID: 479139-009
Matrix: Wipe
Diln Fac: 1.000

Batch#: 307258
Sampled: 02/09/23
Received: 02/09/23
Prepared: 02/10/23
Analyzed: 02/10/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

479139-009 Analyte	Result	RL	Units
Lead	**28**	0.49	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 479139 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3ED-L8-230209-L
Type: SAMPLE
Lab ID: 479139-011
Matrix: Wipe
Diln Fac: 1.000

Batch#: 307258
Sampled: 02/09/23
Received: 02/09/23
Prepared: 02/10/23
Analyzed: 02/10/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

479139-011 Analyte	Result	RL	Units
Lead	**64**	0.50	ug/ft2

Field ID: CLEAR-ENC-Z3ED-L8-230209-L
Type: SAMPLE
Lab ID: 479139-014
Matrix: Wipe
Diln Fac: 1.000

Batch#: 307258
Sampled: 02/09/23
Received: 02/09/23
Prepared: 02/10/23
Analyzed: 02/10/23

Prep: EPA 3050B
Analysis: EPA 6010B
Analyst: SBW

479139-014 Analyte	Result	RL	Units
Lead	**13**	0.50	ug/ft2

Type: BLANK
Lab ID: QC1044647
Matrix: Wipe
Diln Fac: 1.000

Batch#: 307258
Prepared: 02/10/23
Analyzed: 02/10/23
Prep: EPA 3050B

Analysis: EPA 6010B
Analyst: SBW

QC1044647 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend
ND: Not Detected
RL: Reporting Limit

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 479139 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 307258 **Analysis:** EPA 6010B

Lab ID: QC1044649 **Prepared:** 02/10/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 02/10/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1044649 Analyte	Spiked	Result	%REC	Limits	Units
Lead	100.0	105.9	106	80-120	ug/ft2

Type: BSD **Batch#:** 307258 **Analysis:** EPA 6010B

Lab ID: QC1044650 **Prepared:** 02/10/23 **Analyst:** SBW

Matrix: Wipe **Analyzed:** 02/10/23

DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1044650 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	100.0	102.2	102	80-120	ug/ft2	4	20

Legend

RPD: Relative Percent Difference

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931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

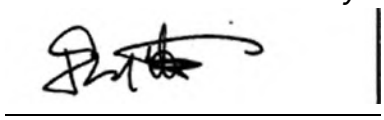
Lab Job Number:	479142
Report Level:	II
Report Date:	02/13/2023

Analytical Report *prepared for:*

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Project: 20-10491 - Hangar 1 NTCRA

Authorized for release by:



John Goyette, Service Center Manager
(510) 204-2233 Ext 13112
john.goyette@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Lindsay Parker
Rincon Consultants
449 15th Street
#303
Oakland, CA 94612

Lab Job #:	479142
Project No:	20-10491
Location:	Hangar 1 NTCRA
Date Received:	02/09/23

Sample ID	Lab ID	Collected	Matrix
CLEAR-AFRAME-C5W-MED-L3-DN-C5.3-DG-230209-P-LA	479142-001	02/09/23 09:15	Wipe
CLEAR-AFRAME-C5W-MED-L3-DN-C5.3-DG-230209-L-LA	479142-002	02/09/23 09:15	Wipe
CLEAR-SCAF-Z3ED-L5-230209-P	479142-003	02/09/23 09:20	Wipe
CLEAR-SCAF-Z3ED-L5-230209-L	479142-004	02/09/23 09:20	Wipe
CLEAR-ENC-Z3ED-L5-230209-P	479142-005	02/09/23 09:25	Wipe
CLEAR-ENC-Z3ED-L5-230209-L	479142-006	02/09/23 09:25	Wipe
CLEAR-AFRAME-C4W-MED-L1-EXT-2 TO 3-230209-P-WF	479142-007	02/09/23 09:45	Wipe
CLEAR-AFRAME-C4W-MED-L1-EXT-2 TO 3-230209-L-WF	479142-008	02/09/23 09:45	Wipe
CLEAR-SCAF-Z3ED-L3-230209-P	479142-009	02/09/23 09:50	Wipe
CLEAR-SCAF-Z3ED-L3-230209-L	479142-010	02/09/23 09:50	Wipe
CLEAR-ENC-Z3ED-L3-230209-P	479142-011	02/09/23 09:55	Wipe
CLEAR-ENC-Z3ED-L3-230209-L	479142-012	02/09/23 09:55	Wipe
CLEAR-AFRAME-C5W-LAT-L1-DN-C5W-DG-230209-P-CB	479142-013	02/09/23 10:15	Wipe
CLEAR-AFRAME-C5W-LAT-L1-DN-C5W-DG-230209-L-CB	479142-014	02/09/23 10:15	Wipe
CLEAR-SCAF-Z3ED-L1-230209-P	479142-015	02/09/23 10:20	Wipe
CLEAR-SCAF-Z3ED-L1-230209-L	479142-016	02/09/23 10:20	Wipe
CLEAR-ENC-Z3ED-L1-230209-P	479142-017	02/09/23 10:25	Wipe
CLEAR-ENC-Z3ED-L1-230209-L	479142-018	02/09/23 10:25	Wipe
CLEAR-MEDBLANK-230209-P	479142-019	02/09/23 09:30	Wipe
CLEAR-MEDBLANK-230209-L	479142-020	02/09/23 09:30	Wipe

ENTHALPY ANALYTICAL

Case Narrative

Rincon Consultants 449 15th Street #303 Oakland, CA 94612 Lindsay Parker	Lab Job Number: 479142 Project No: 20-10491 Location: Hangar 1 NTCRA Date Received: 02/09/23

This data package contains sample and QC results for twenty wipe samples, requested for the above referenced project on 02/10/23. The samples were received cold and intact.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B):
No analytical problems were encountered.

479142

ENTHALPY ANALYTICAL

Chain of Custody Record COC ID:

Page: 1 of 2

Turn Around Time (rush by advanced notice only)

Standard: | 5 Day: | 3 Day: | 2 Day: | 1 Day: | Custom TAT: X (Pb & PCBs)

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Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott

Test Instructions / Comments

Clearance Wipe Samples - Level II Report/Stage 2A Validation

Report PCB concentrations on a µg/100cm² basis

Report lead concentrations on a µg/ft² basis

Report Aroclor 1268 concentrations in addition to the standard Aroclors

Results to be delivered by Saturday 2/11 for both Lead and PCB analysis

Wipe samples collected from Zone 3 Enclosure D (High Occupancy)

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD
1	CLEAR-AFRAME-C5W-MED-L3-DN-C5-3-DG-230209-P-LA	2/9/2023	0915	WP	1		X		
2	CLEAR-AFRAME-C5W-MED-L3-DN-C5-3-DG-230209-L-LA	2/9/2023	0915	WP	1			X	
3	CLEAR-SCAF-Z3ED-L5-230209-P	2/9/2023	0920	WP	1		X		
4	CLEAR-SCAF-Z3ED-L5-230209-L	2/9/2023	0920	WP	1			X	
5	CLEAR-ENC-Z3ED-L5-230209-P	2/9/2023	0925	WP	1		X		
6	CLEAR-ENC-Z3ED-L5-230209-L	2/9/2023	0925	WP	1			X	
7	CLEAR-AFRAME-C4W-MED-L1-EXT-2 TO 3-230209-P-WF	2/9/2023	0945	WP	1		X		
8	CLEAR-AFRAME-C4W-MED-L1-EXT-2 TO 3-230209-L-WF	2/9/2023	0945	WP	1			X	
9	CLEAR-SCAF-Z3ED-L3-230209-P	2/9/2023	0950	WP	1		X		
10	CLEAR-SCAF-Z3ED-L3-230209-L	2/9/2023	0950	WP	1			X	
11	CLEAR-ENC-Z3ED-L3-230209-P	2/9/2023	0955	WP	1		X		
12	CLEAR-ENC-Z3ED-L3-230209-L	2/9/2023	0955	WP	1			X	
13	CLEAR-AFRAME-C5W-LAT-L1-DN-C5W-DG-230209-P-CB	2/9/2023	1015	WP	1		X		
14	CLEAR-AFRAME-C5W-LAT-L1-DN-C5W-DG-230209-L-CB	2/9/2023	1015	WP	1			X	
15	CLEAR-SCAF-Z3ED-L1-230209-P	2/9/2023	1020	WP	1		X		

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Michaela Kim	Rincon/Env Scientist	2/9/23 @ 1250
1 Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	2/9/23 @ 12:50
2 Relinquished By:	Audrey Hudson	"	"	2/9/23 @ 13:19
2 Received By:		Maxwell Gil	EA	2/9/23 15:19
3 Relinquished By:		Maxwell Gil	EA	2/9/23 16:04
3 Received By:		FEDEX		2/10/23 0915

479142

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Chain of Custody Record

COC ID:

Page: 2 of 2

Turn Around Time (rush by advanced notice only)

Standard:		5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	X (Pb & PCBs)

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931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Report: Level II data validation

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	Rincon Consultants, Inc.	Quote #:	RIN031721
Report To:	Lindsay Parker	Proj. Name:	Hangar 1 - NCTRA WP
Email:	lparker@rinconconsultants.com	Proj. #:	20-10491
Address:	449 15th Street, Suite 303	P.O. #:	
	Oakland, California 94612	Address:	158 Cody Road, Mountain View, CA
Phone:	(651) 890-9556	Global ID:	
Fax:		Sampled By:	T. Sinnott

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	PCBs - EPA Method 8082	Lead - EPA Method 3050/6010B	HOLD	Test Instructions / Comments
16	CLEAR-SCAF-Z3ED-L1-230209-L	2/9/2023	1020	WP	1			X		**Clearance Wipe Samples - Level II Report/Stage 2A Validation** Report PCB concentrations on a µg/100cm² basis Report lead concentrations on a µg/ft² basis Report Aroclor 1268 concentrations in addition to the standard Aroclors **Results to be delivered by Saturday 2/11 for both Lead and PCB analysis** Wipe samples collected from Zone 3 Enclosure D (High Occupancy)
17	CLEAR-ENC-Z3ED-L1-230209-P	2/9/2023	1025	WP	1		X			
18	CLEAR-ENC-Z3ED-L1-230209-L	2/9/2023	1025	WP	1			X		
19	CLEAR-MEDBLANK-230209-P	2/9/2023	0930	WP	1		X			Collected from High Occupancy zone of Hangar 1
20	CLEAR-MEDBLANK-230209-L	2/9/2023	0930	WP	1			X		Collected from High Occupancy zone of Hangar 1
21										
22										
23										
24										
25										
26										
27										
28										
29										
30										

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Michaela Kim	Rincon/Env Scientist	2/9/23 @ 1250
[1] Received By:	Audrey Hudson	AUDREY HUDSON	ENTHALPY	2/9/23 @ 12:50
[2] Relinquished By:	Audrey Hudson			2/9/23 @ 15:13
[2] Received By:		Maeweily Yip		2/9/23 15:19
[3] Relinquished By:		Maeweily Yip		2/9/23 16:04
[3] Received By:				2/10/23 0915

The below sample checklist was completed after delivery of samples by the laboratory provided courier or by Rincon personnel to Enthalpy Analytical in Berkeley, CA.

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 479142 Client: Rincon

Date Received: 2/9/23 Project: _____

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☐ No, or ☑ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☑ Date: 2/9 How many 1 ☑ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No (**skip Section 3 below**)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 2/9/23 By (print) MY (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☑ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?		✓	
If YES, what time were they transferred to freezer? _____			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			✓
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 2/9/23 **By (print)** MY **(sign)** _____

Date Labeled 2/9/23 **By (print)** MY **(sign)** _____

The below sample checklist was completed after the samples were shipped from the Enthalpy Analytical location in Berkeley, CA to the Enthalpy Analytical location in Orange, CA.

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Rincon Consultants Project: Hangar 1 NTCRA

Date Received: 2/10/23 Sampler's Name Present: ☑ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: _____ #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: Southwest Airlines

Section 3

Was the cooler packed with: ☑ Ice ☑ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: _____ #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?			✔
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 2/10/23

Cooler #4
w/ custody Seal

3.4 / 4.2



Enthalpy Analytical - Orange Analytical Report

Lab #: 479142 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C5W-MED-L3-DN-C5.3-DG-230209-P-LA **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479142-001 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-001 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479142-001 Surrogate	%REC	Limits
TCMX (PCB)	75	19-121
Decachlorobiphenyl (PCB)	65	19-121

Field ID: CLEAR-SCAF-Z3ED-L5-230209-P **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479142-003 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-003 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479142-003 Surrogate	%REC	Limits
TCMX (PCB)	86	19-121
Decachlorobiphenyl (PCB)	74	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479142 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3ED-L5-230209-P **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479142-005 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-005 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479142-005 Surrogate	%REC	Limits
TCMX (PCB)	70	19-121
Decachlorobiphenyl (PCB)	61	19-121

Field ID: CLEAR-AFRAME-C4W-MED-L1-EXT-2 TO 3-230209-P-WF **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479142-007 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-007 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479142-007 Surrogate	%REC	Limits
TCMX (PCB)	71	19-121
Decachlorobiphenyl (PCB)	62	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479142 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-SCAF-Z3ED-L3-230209-P **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479142-009 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-009 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479142-009 Surrogate	%REC	Limits
TCMX (PCB)	68	19-121
Decachlorobiphenyl (PCB)	56	19-121

Field ID: CLEAR-ENC-Z3ED-L3-230209-P **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479142-011 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-011 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479142-011 Surrogate	%REC	Limits
TCMX (PCB)	60	19-121
Decachlorobiphenyl (PCB)	50	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479142 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C5W-LAT-L1-DN-C5W-DG-230209-P-CB **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479142-013 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-013 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479142-013 Surrogate	%REC	Limits
TCMX (PCB)	71	19-121
Decachlorobiphenyl (PCB)	57	19-121

Field ID: CLEAR-SCAF-Z3ED-L1-230209-P **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479142-015 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-015 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479142-015 Surrogate	%REC	Limits
TCMX (PCB)	72	19-121
Decachlorobiphenyl (PCB)	60	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479142 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3ED-L1-230209-P **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479142-017 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-017 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479142-017 Surrogate	%REC	Limits
TCMX (PCB)	68	19-121
Decachlorobiphenyl (PCB)	56	19-121

Field ID: CLEAR-MEDBLANK-230209-P **Batch#:** 307261 **Prep:** EPA 3546

Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 8082

Lab ID: 479142-019 **Received:** 02/09/23 **Analyst:** TRN

Matrix: Wipe **Prepared:** 02/10/23

Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-019 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

479142-019 Surrogate	%REC	Limits
TCMX (PCB)	73	19-121
Decachlorobiphenyl (PCB)	62	19-121

Enthalpy Analytical - Orange Analytical Report

Lab #: 479142 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BLANK **Batch#:** 307261 **Analysis:** EPA 8082

Lab ID: QC1044655 **Prepared:** 02/10/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 02/10/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1044655 Analyte	Result	RL	Units
Aroclor-1016	ND	0.50	ug/100 cm2
Aroclor-1221	ND	0.50	ug/100 cm2
Aroclor-1232	ND	0.50	ug/100 cm2
Aroclor-1242	ND	0.50	ug/100 cm2
Aroclor-1248	ND	0.50	ug/100 cm2
Aroclor-1254	ND	0.50	ug/100 cm2
Aroclor-1260	ND	0.50	ug/100 cm2
Aroclor-1262	ND	0.50	ug/100 cm2
Aroclor-1268	ND	0.50	ug/100 cm2

QC1044655 Surrogate	%REC	Limits
TCMX (PCB)	53	19-121
Decachlorobiphenyl (PCB)	58	19-121

Legend

ND: Not Detected

RL: Reporting Limit

Enthalpy Analytical - Orange Analytical Report: Batch QC

Lab #: 479142 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 307261 **Analysis:** EPA 8082

Lab ID: QC1044656 **Prepared:** 02/10/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 02/10/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1044656 Analyte	Spiked	Result	%REC	Limits	Units
Aroclor-1016	5.000	3.215	64	60-140	ug/100 cm2
Aroclor-1260	5.000	3.476	70	60-140	ug/100 cm2

QC1044656 Surrogate	%REC	Limits
TCMX (PCB)	62	19-121
Decachlorobiphenyl (PCB)	66	19-121

Type: BSD **Batch#:** 307261 **Analysis:** EPA 8082

Lab ID: QC1044657 **Prepared:** 02/10/23 **Analyst:** TRN

Matrix: Wipe **Analyzed:** 02/10/23

Diln Fac: 1.000 **Prep:** EPA 3546

QC1044657 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Aroclor-1016	5.000	3.248	65	60-140	ug/100 cm2	1	20
Aroclor-1260	5.000	3.562	71	60-140	ug/100 cm2	2	20

QC1044657 Surrogate	%REC	Limits
TCMX (PCB)	61	19-121
Decachlorobiphenyl (PCB)	65	19-121

Legend

RPD: Relative Percent Difference

ENTHALPY ANALYTICAL

Lead

Lab #: 479142 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-AFRAME-C5W-MED-L3-DN-C5.3-DG-230209-L-LA **Batch#:** 307258 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 6010B
Lab ID: 479142-002 **Received:** 02/09/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/10/23
Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-002 Analyte	Result	RL	Units
Lead	**10**	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z3ED-L5-230209-L **Batch#:** 307258 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 6010B
Lab ID: 479142-004 **Received:** 02/09/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/10/23
Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-004 Analyte	Result	RL	Units
Lead	**60**	0.50	ug/ft2

Field ID: CLEAR-ENC-Z3ED-L5-230209-L **Batch#:** 307258 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 6010B
Lab ID: 479142-006 **Received:** 02/09/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/10/23
Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-006 Analyte	Result	RL	Units
Lead	**5.4**	0.50	ug/ft2

Field ID: CLEAR-AFRAME-C4W-MED-L1-EXT-2 TO 3-230209-L-WF **Batch#:** 307258 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 6010B
Lab ID: 479142-008 **Received:** 02/09/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/10/23
Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-008 Analyte	Result	RL	Units
Lead	**12**	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z3ED-L3-230209-L **Batch#:** 307258 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 6010B
Lab ID: 479142-010 **Received:** 02/09/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/10/23
Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-010 Analyte	Result	RL	Units
Lead	**56**	0.50	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 479142 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Field ID: CLEAR-ENC-Z3ED-L3-230209-L **Batch#:** 307258 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 6010B
Lab ID: 479142-012 **Received:** 02/09/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/10/23
Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-012 Analyte	Result	RL	Units
Lead	**73**	0.50	ug/ft2

Field ID: CLEAR-AFRAME-C5W-LAT-L1-DN-C5W-DG-230209-L-CB **Batch#:** 307258 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 6010B
Lab ID: 479142-014 **Received:** 02/09/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/10/23
Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-014 Analyte	Result	RL	Units
Lead	**4.4**	0.50	ug/ft2

Field ID: CLEAR-SCAF-Z3ED-L1-230209-L **Batch#:** 307258 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 6010B
Lab ID: 479142-016 **Received:** 02/09/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/10/23
Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-016 Analyte	Result	RL	Units
Lead	**29**	0.50	ug/ft2

Field ID: CLEAR-ENC-Z3ED-L1-230209-L **Batch#:** 307258 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 6010B
Lab ID: 479142-018 **Received:** 02/09/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/10/23
Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-018 Analyte	Result	RL	Units
Lead	**12**	0.50	ug/ft2

Field ID: CLEAR-MEDBLANK-230209-L **Batch#:** 307258 **Prep:** EPA 3050B
Type: SAMPLE **Sampled:** 02/09/23 **Analysis:** EPA 6010B
Lab ID: 479142-020 **Received:** 02/09/23 **Analyst:** SBW
Matrix: Wipe **Prepared:** 02/10/23
Diln Fac: 1.000 **Analyzed:** 02/10/23

479142-020 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

ENTHALPY ANALYTICAL

Lead

Lab #: 479142 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type:	BLANK	**Batch#:**	307258	**Analysis:**	EPA 6010B
Lab ID:	QC1044647	**Prepared:**	02/10/23	**Analyst:**	SBW
Matrix:	Wipe	**Analyzed:**	02/10/23		
DiIn Fac:	1.000	**Prep:**	EPA 3050B		

QC1044647 Analyte	Result	RL	Units
Lead	ND	0.50	ug/ft2

Legend

ND: Not Detected

RL: Reporting Limit

ENTHALPY ANALYTICAL

Lead: Batch QC

Lab #: 479142 **Project#:** 20-10491

Client: Rincon Consultants **Location:** Hangar 1 NTCRA

Type: BS **Batch#:** 307258 **Analysis:** EPA 6010B
Lab ID: QC1044649 **Prepared:** 02/10/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 02/10/23
DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1044649 Analyte	Spiked	Result	%REC	Limits	Units
Lead	100.0	105.9	106	80-120	ug/ft2

Type: BSD **Batch#:** 307258 **Analysis:** EPA 6010B
Lab ID: QC1044650 **Prepared:** 02/10/23 **Analyst:** SBW
Matrix: Wipe **Analyzed:** 02/10/23
DiIn Fac: 1.000 **Prep:** EPA 3050B

QC1044650 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Lead	100.0	102.2	102	80-120	ug/ft2	4	20

Legend

RPD: Relative Percent Difference