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MATRIXNEWORLD
A TRUE ENVIRONMENTAL COMPANY

December 11, 2025

Mr. Thomas Smith
Senior Project Officer, Real Estate Design/Construction
New Jersey Economic Development Authority
36 West State Street
P.O. Box 990
Trenton, NJ 08625

RE: GROUND WATER INVESTIGATION SUMMARY LETTER REPORT
NEW JERSEY TRANSIT LINDEN STATION
101 WEST ELIZABETH AVENUE
BLOCK 254, LOT 10
LINDEN, UNION COUNTY, NEW JERSEY
NJEDA RFP # 2021-RFP-122
TASK ORDER 20A
MATRIX NO. 25-0406

Dear Mr. Smith:

Matrix New World Engineering, Land Surveying and Landscape Architecture, PC (Matrix) has prepared this summary of the ground water sampling activities conducted at the above referenced property (the Site). The ground water sampling was conducted in accordance with New Jersey Department of Environmental Protection (NJDEP) Technical Requirements for Site Remediation (N.J.A.C 7:26E), NJDEP Administrative Requirements for the Remediation of Contaminated Site (N.J.A.C. 7:26C), NJDEP April 2012 Ground Water Technical Guidance: Site Investigation, Remedial Investigation, Remedial Action Performance Monitoring, and March 2024 Field Sampling Procedures Manual (FSPM).

BACKGROUND

A Preliminary Assessment (PA)/Phase I Environmental Site Assessment (Phase I) was conducted by Vanasse Hangen Brustlin, Inc. (VHB) on behalf of New Jersey Economic Development Authority (NJEDA), dated November 2024. According to this report and confirmed by Matrix, the Site is currently operated by New Jersey Transit (NJT) as an asphalt-paved parking lot, encompassing approximately 2.074 acres. The Site is situated in a mixed-use residential and commercial area in Linden, New Jersey. A Site Location Map is included in **Attachment A** as **Figure 1**, and a Site Map depicting the Site features is included as **Figure 2**.

Historically, the Site functioned as a lumber yard from circa 1923 to 2002. Prior to that, portions of the Site were used for residential purposes from before 1920 until sometime between 1951 and 1958.

VHB identified the following Recognized Environmental Conditions (RECs) and Areas of Concern (AOCs) requiring further investigation:

- REC/AOC-1 Historical Site Operations/Former Storage Tank and Appurtenances; and
- REC-2 Adjoining and Nearby Former Dry Cleaners.

Additionally, VHB identified a Historical Recognized Environmental Condition (HREC):

- HREC-1: Former 2,000-gallon leaded gasoline underground storage tank (UST)

Matrix completed Site Investigation (SI) activities at the Site in June 2025, including the collection of soil and ground water samples. A total of four temporary well points (TWPs) were installed at the Site. TWPs-01 and TWP-02 were installed at the western portion of the Site to evaluate potential impacts associated with REC/AOC-1. Well points TWP-03 and TWP-04 were installed along the northern portion of the Site, to evaluate if impacts associated with REC-2 were negatively affecting the Site. The location of the TWPs are depicted on **Figure 3**, included in **Attachment A**.

As detailed in Matrix's August 2025 Site Investigation Report (SIR), the four well points were constructed with ten feet of ¾-inch pre-packed PVC screen and were finished to grade with three feet of ¾-inch solid PVC riser. Samples TWP-01 and TWP-02 were submitted for Target Compound List (TCL) Volatile Organic Compounds (VOC) and TCL Semi-Volatile Organic Compounds (SVOC). Samples TWP-03 and TWP-04 were submitted for TCL VOC analysis. A table summarizing the ground water samples collected from the Site is included in **Attachment B** as **Table 1**.

The analytical results showed that no TCL VOC was present in the four samples above the NJDEP February 2025 Ground Water Quality Standards (GWQS). The TCL VOC analytical results are summarized on **Table 2**, included in **Attachment B**.

Several TCL SVOCs were present in TWP-01 and TWP-02 above the GWQS, warranting further investigation. Specifically, the polycyclic aromatic hydrocarbons (PAHs) benzo(a)anthracene, benzo(a)pyrene, benzo(a)fluoranthene, and indeno(1,2,3-cd)pyrene were detected in sample TWP-01 above the GWQS. Pentachlorophenol was identified above the NJDEP GWQS in both TWP-01 and TWP-02. The TCL SVOC results are summarized on **Table 3**, included in **Attachment B**.

Both ground water samples were noted to be turbid at the time of collection, indicating the presence of suspended sediment. Given that TCL SVOC compounds are known to sorb strongly to soil particles and soil impacts above NJDEP Soil Remediation Standards (SRS) were not identified for TCL SVOCs during the June 2025 SI activities, the elevated turbidity likely contributed to the artificially elevated concentrations of PAHs in the analytical results, due to sediment-associated bias. Further investigation was warranted to confirm if the TWP analytical results were representative of the actual ground water condition at the Site.

NOVEMBER 2025 GROUND WATER INVESTIGATION

On November 5, 2025, Matrix observed the installation of two monitoring permanent monitoring wells near the June 2025 TWP locations. Monitoring well MW-1 was installed proximate to the location of TWP-01 and MW-2 was installed proximate to the location of the TWP-02. The locations of MW-1, (NJDEP Well Permit Number E202510481), and MW-2 (NJDEP Well Permit Number E202510482), are depicted on **Figure 4**, included in **Attachment A**.

Prior to the installation activities, a geophysical survey and soft-dig activities were completed on November 4, 2025, by Environmental Probing Investigations, Inc. (EPI) to ensure that no subsurface structures or utilities were present that would prevent the installation of the monitoring wells. No subsurface obstructions were identified at either well location.

The monitoring wells were installed by EPI, a NJDEP licensed well, driller using hollow stem auger drilling technologies.

MW-1 was installed to a depth of 15 feet below ground surface (ft, bgs) and MW-2 was installed to an approximate depth of 17 ft, bgs. Both wells were constructed with two-inch diameter 0.010 slot PVC screen. Ten feet of PVC screen were installed at MW-1, and 12 feet of PVC screen were installed at MW-2. The wells were finished to grade with solid PVC riser. The annular space surrounding the PVC casing was filled with filter sand to two feet above the top of the PVC screen in each well. The remaining annular space was filled with concrete/bentonite slurry. Both wells were fitted with locking caps and were completed as flush mount wells with steel access covers and concrete curb boxes.

During the well installation soil cuttings from the wells were screened for lithology as well as visual and olfactory evidence of potential impacts. In addition, the soil was screened with a properly calibrated photoionization detector (PID) for the presence of volatile organic (VO) vapors.

Soil encountered during the well installation consisted of an asphalt/gravel subbase from the surface to approximately one ft, bgs. Soil material consisting of fine to medium sand with some silt, was observed beginning at one ft, bgs and extending to a maximum depth of approximately seven ft, bgs. Soil beneath seven feet consisted of red silty clay with varying amounts of sand and gravel to a depth of 17 ft, bgs. No visual, olfactory, or PID readings indicative of potential impacts were identified. The monitoring well permits, and well logs are included in **Attachment C**.

Once completed, each well will be developed by the well driller in accordance with NJDEP requirements. All drill cuttings and well development purge water produced during the well installation activities were placed into four 55-gallon steel drums and stored on-Site pending proper disposal.

November 2025 Ground Water Sampling

On November 20, 2025, Matrix mobilized to the Site to conduct groundwater sampling from the newly installed monitoring wells. Prior to sample collection, each well was gauged to determine ground water level and total depths.

Ground water depth and total well depth measurements were collected before purging and sampling activities. Results of the purging activities are summarized below:

- MW-1
  - Depth to Water: 6.60 ft bgs
  - Total Well Depth: 14.91 ft bgs

- MW-2
  - Depth to Water: 8.75 ft bgs
  - Total Well Depth: 16.85 ft bgs

Groundwater depth measurements are provided in **Table 4** (**Attachment B**). The well depth information was also recorded on monitoring well purge data sheets are provided in **Attachment D**.

MW-1 and MW-2 were purged using volume-average purging (VAP) techniques, consistent with the NJDEP FSPM (March 2024). A submersible pump was used to purge between three to five well volumes from each well. Geochemical parameters, including temperature, pH, oxidation-reduction potential (ORP), conductivity, and dissolved oxygen (DO), were recorded at the start of purging, upon completion of purging, and after sample collection. During field calibration of the water quality meter, the turbidity sensor could not be properly calibrated due to the absence of the required calibration fluid. As a result, turbidity readings collected from MW-1 and MW-2 may not accurately represent groundwater conditions.

During the well purging activities, Matrix screened the purge water for visual and olfactory evidence of potential impacts. At the initiation of the pumping activities, the water from both wells was noted to be turbid. No odors, sheen, or product were noted on the purge water. As the purging activities continued the ground water was observed to decrease and the purge water became clear in MW-2. Purge water from MW-1 remained slightly cloudy, indicating some amount of turbidity (sediment) was present in the water from MW-1.

A total of 4.07 gallons of ground water were purged from MW-1, and 3.96 gallons of ground water were purged from MW-2. The geochemical readings and observed ground water conditions are included on the monitoring well purge guides included in **Attachment D**.

Once the purging activities were completed at each well, the ground water samples were collected by placing ground water pumped from the wells into the laboratory provided glassware. Samples MW-1 and MW-2 were submitted to SGS-North America, a NJDEP certified laboratory, for TCL SVOC analysis.

Purge water produced during pumping activities was placed into 55-gallon steel drums present at the Site that contained well development purge water produced during the well installation activities. As of the date of this summary report disposal of the drums from the monitoring well installation and sampling is pending.

Ground Water Analytical Results Summary

The laboratory analytical results showed that no TCL SVOC compound was present in either MW-1 or MW-2 at detectable concentrations, including benzo(a)pyrene, benzo(a)anthracene, and indeno(1,2,3-cd)pyrene, which were previously detected above the GWQS in TWP-01.

Pentachlorophenol, detected in both TWP-01 and TWP-02 above the GWQS, was not present at detectable concentrations in either MW-1 or MW-2. However, the laboratory reporting limit (RL) was documented to be 0.2 ug/L, which is above the GWQS of 0.1 ug/L. The Method Detection Limit (MDL) was reported at 0.06 ug/L for both MW-1 and MW-2, which is below the NJDEP GWQS. Since the laboratory did not identify an estimated value for the concentration of pentachlorophenol in either sample between the MDL and RL, it is likely that pentachlorophenol is not present in the ground water at the Site above the GWQS.

The TCL SVOC analytical results are summarized on **Table 3** (**Attachment B**), and the laboratory analytical data report is included in **Attachment D**.

CONCLUSIONS

In June 2025 Matrix collected soil and ground water samples to evaluate if impacts above the applicable NJDEP regulatory standards associated with REC/AOC-1 and REC-2 identified in the VHB November 2024 PA/Phase I. The soil sampling results did not identify impacts above the applicable NJDEP SRS. As described above, several TCL SVOCs were present above NJDEP GWQS in ground water samples collected from TWP-01 and TWP-02. However, those samples were turbid, likely causing artificially elevated TCL SVOC results which were not representative of the actual ground water condition at the Site.

To evaluate if the June 2025 ground water results were representative of Site conditions, permanent monitoring wells MW-1 and MW-2 were installed and sampled in November 2025. These monitoring wells produced significantly less turbid ground water compared to the June 2025 TWPs. Analytical results from both wells showed no targeted TCL SVOCs were present at a detectable concentration, including those compounds identified in June 2025.

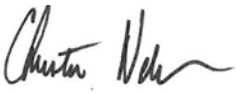
Although the laboratory RL for pentachlorophenol was above the applicable GWQS of 0.1 ug/L, the MDL (0.06 ug/L) was below the GWQS. If present, it is anticipated that at a minimum, pentachlorophenol would have been identified at an estimated concentration between the MDL and RL. Since the laboratory did not report a concentration between the MDL and RL for either MW-1 or MW-2, it is likely that pentachlorophenol is not present above the MDL of 0.06 ug/L.

Based on the observed condition of the ground water during the November 2025 sampling event and the associated ground water analytical results, the elevated TCL SVOC detections in the June 2025 TWP samples are attributed to sample turbidity and do not represent actual ground water conditions at the Site.

Based on November 2025 monitoring well sampling results, ground water impacts above the NJDEP GWQS were not identified and further investigation is not warranted.

Matrix recommends that MW-1 and MW-2 be properly abandoned in accordance with applicable NJDEP regulations.

Sincerely,



Christopher Nelson
Project Manager

Attachments: A – Figures
Figure 1 Soil Sample Location Map
Figure 2 Site Map
Figure 3 Temporary Well Point Location Map
Figure 4 Monitoring Well Location Map

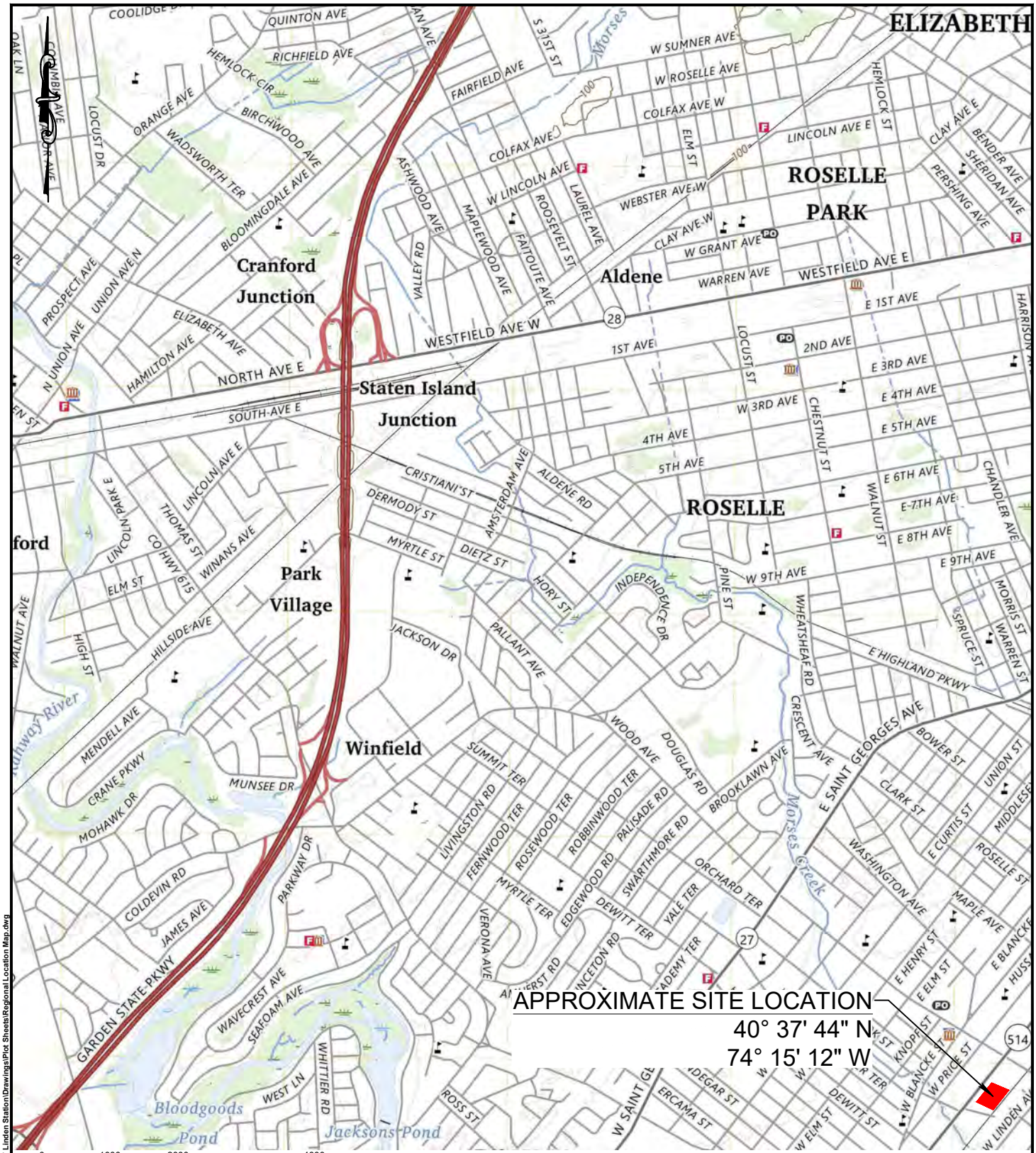
B – Tables
Table 1 – Ground Water Sample Summary Table
Table 2 – TCL VOC Ground Water Analytical Results
Table 3 – TCL SVOC Ground Water Analytical Results
Table 4 – Ground Water Depth Measurements

C – Monitoring Well Permits and Well Logs

D – Monitoring Well Purge Guides

E – Laboratory Analytical Data Reports

Attachment A
Figures



REGIONAL LOCATION MAP

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NJ TRANSIT LINDEN STATION
101 WEST ELIZABETH AVENUE
BLOCK 254 LOT 10 & PORTION OF LOT 14
LINDEN, UNION COUNTY, NEW JERSEY

SCALE:	PROJECT NO.:	DATE:	FIGURE NO.:
AS SHOWN	25-0406		1

0 20 40 80

SCALE: 1" = 40'

LEGEND

APPROXIMATE SITE BOUNDARY

APPROXIMATE PARCEL BOUNDARY

DESIGNED BY: MED | REVIEWED BY: CN | RELEASED BY: CN

DATE

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NEW JERSEY CERTIFICATE OF AUTHORIZATION No. 24GA27982300

SITE PLAN

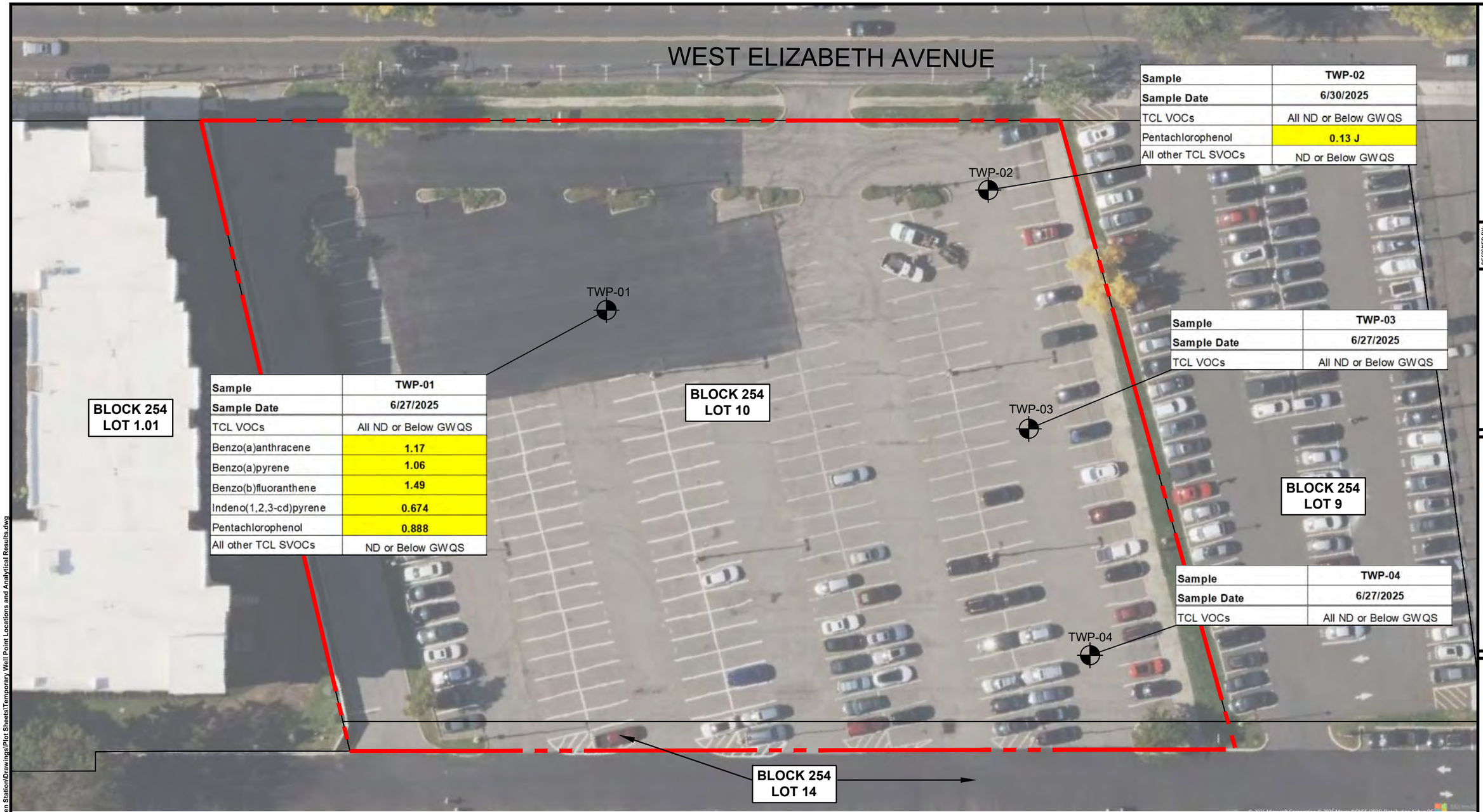
NJ TRANSIT LINDEN STATION
101 WEST ELIZABETH AVENUE
BLOCK 254, LOT 10 & PORTION OF LOT 14
LINDEN
UNION COUNTY, NEW JERSEY

PROJECT NUMBER: 25-0406

SCALE: AS SHOWN

DATE: 8/14/2025

2



Sample	TWP-01
Sample Date	6/27/2025
TCL VOCs	All ND or Below GWQS
Benzo(a)anthracene	**1.17**
Benzo(a)pyrene	**1.06**
Benzo(b)fluoranthene	**1.49**
Indeno(1,2,3-cd)pyrene	**0.674**
Pentachlorophenol	**0.888**
All other TCL SVOCs	ND or Below GWQS

Sample	TWP-02
Sample Date	6/30/2025
TCL VOCs	All ND or Below GWQS
Pentachlorophenol	**0.13 J**
All other TCL SVOCs	ND or Below GWQS

Sample	TWP-03
Sample Date	6/27/2025
TCL VOCs	All ND or Below GWQS

Sample	TWP-04
Sample Date	6/27/2025
TCL VOCs	All ND or Below GWQS

0 20 40 80
SCALE: 1" = 40'

LEGEND

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- TEMPORARY WELL POINT LOCATION
- ***Bold and italic*** REPORTING LIMIT EXCEEDS NJDEP's GWQS
- **Bold** CONCENTRATION EXCEEDS NJDEP's GWQS

NOTES:

ALL GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM
CONCENTRATIONS BOLD AND HIGHLIGHTED IN YELLOW EXCEED NJDEP'S MAY 2025 GWQS
ND (<0.4) COMPOUND NOT PRESENT AT DETECTABLE CONCENTRATION
NC NO APPLICABLE STANDARD
TCL VOC TARGET COMPOUND LIST VOLATILE ORGANIC COMPOUNDS
NJDEP NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
GWQSS NJDEP GROUND WATER QUALITY STANDARDS (NJAC 7:9C 5/25)

DESIGNED BY: MED
REVIEWED BY: CN
RELEASED BY: CN
DATE

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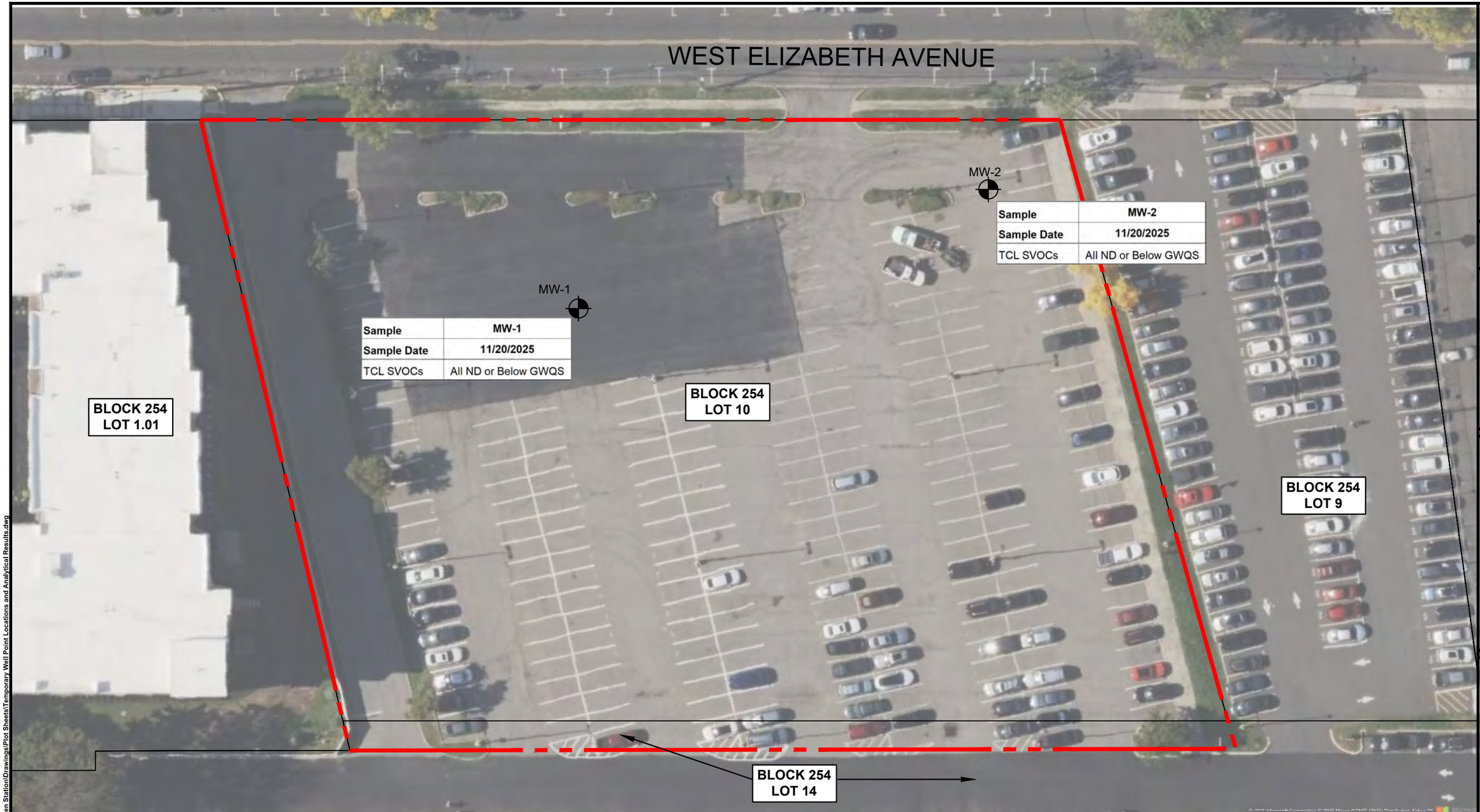
TEMPORARY WELL POINT LOCATIONS ANALYTICAL RESULTS MAP

NJ TRANSIT LINDEN STATION
101 WEST ELIZABETH AVENUE
BLOCK 254, LOT 10 & PORTION OF LOT 14
LINDEN
UNION COUNTY, NEW JERSEY

PROJECT NUMBER: 25-0406
SCALE: AS SHOWN
DATE: 8/14/2025

3



LEGEND

- APPROXIMATE SITE BOUNDARY
- APPROXIMATE PARCEL BOUNDARY
- MONITORING WELL LOCATION

NOTES:

1. ALL GROUNDWATER CONCENTRATIONS IN MILLIGRAMS PER KILOGRAM
2. CONCENTRATIONS BOLD AND HIGHLIGHTED IN YELLOW EXCEED NJDEP'S May 2025 GWQS
3. ND (<0.4) = COMPOUND NOT PRESENT AT DETECTABLE CONCENTRATIONS
4. NC = NO APPLICABLE STANDARD
5. TCL SVOC = TARGET COMPOUND LIST SEMIVOLATILE ORGANIC COMPOUNDS
6. NJDEP's GWQS = NEW JERSEY DEPARTMENTOF ENVIRONMENTAL PROTECTIONS'S GROUND WATER QUALITY STANDARDS (NJAC 7:9C 2/25)

Bold and italic	REPORTING LIMIT EXCEEDS NJDEP's GWQS
Bold	CONCENTRATION EXCEEDS NJDEP's GWQS

DESIGNED BY: MED
REVIEWED BY: CN
RELEASED BY: CN
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MONITORING WELL LOCATION MAP

NJ TRANSIT LINDEN STATION
101 WEST ELIZABETH AVENUE
BLOCK 254, LOT 10 & PORTION OF LOT 14
LINDEN
UNION COUNTY, NEW JERSEY

PROJECT NUMBER: 25-0406
SCALE: AS SHOWN
DATE: 8/14/2025

4

Attachment B
Tables

Table 1
NJ Transit Linden Train Station Parking Lot
101 West Elizabeth Avenue, Linden, Union County, New Jersey
Ground Water Sample Summary

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AOC	Boring Location	TWP/ Well Depth (ft, bgs)	Sample ID	DATE	ANALYTICAL PARAMETERS	Sample Collection Method
Ground Water						
REC/AOC-1	TWP-01	13	TWP-01	June 27, 2025	TCL VOCs and TCL SVOCs	Dedicated Disposable Polyethylene Bailer
	TWP-02	13	TWP-02	June 30, 2025	TCL VOCs and TCL SVOCs	Dedicated Disposable Polyethylene Bailer
	TWP-03	13	TWP-03	June 27, 2025	TCL VOCs	Dedicated Disposable Polyethylene Bailer
	TWP-04	13	TWP-04	June 27, 2025	TCL VOCs	Dedicated Disposable Polyethylene Bailer
	MW-1	15	MW-1	November 20, 2025	TCL SVOCs	Polyethylene Tubing
	MW-2	17	MW-2	November 20, 2025	TCL SVOCs	Polyethylene Tubing

Notes:
ft, bgs = Feet, below ground surface
REC = Recognized Environmental Condition
AOC = Area of Concern
TCL = Target Compound List
VOCs = Volatile Organic Compounds
SVOCs = Semi-Volatile Organic Compounds

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Table 2
NJ Transit Linden Train Station Parking Lot
101 West Elizabeth Avenue, Linden, Union County, New Jersey
Ground Water Analytical Results - TCL VOCs

Client Sample ID:	NJ Groundwater Quality Standard - 2025 (NJAC 7:9C 2/3/25	TWP-01		TWP-02		TWP-03		TWP-04	
Lab Sample ID:		JE14156-6		JE14355-6		JE14156-7		JE14156-8	
Date Sampled:		6/27/2025		6/30/2025		6/27/2025		6/27/2025	
Dilution Factor:		1		1		1		1	
Matrix:		Ground Water		Ground Water		Ground Water		Ground Water	
TCL VOCs (SW846 8260D AND 8260D BY SIM)									
1,1,1-Trichloroethane	1900	1	U	1	U	1	U	1	U
1,1,2,2-Tetrachloroethane	0.2	0.2 [c]	U	0.2	U	0.2 [c]	U	0.2	U
1,1,2-Trichloroethane	0.58	1	U	1	U	1	U	1	U
1,1-Dichloroethane	22	1	U	1	U	1	U	1	U
1,1-Dichloroethene	31	1	U	1	U	1	U	1	U
1,2,3-Trichlorobenzene	NC	1	U	1	U	1	U	1	U
1,2,3-Trichloropropane	0.005	0.005 [c]	U	0.005	U	0.005 [c]	U	0.005	U
1,2,4-Trichlorobenzene	1.1	1	U	1	U	1	U	1	U
1,2-Dibromo-3-chloropropane	0.02	0.02	U	0.02	U	0.02	U	0.02	U
1,2-Dibromoethane	0.03	0.02	U	0.02	U	0.02	U	0.02	U
1,2-Dichlorobenzene	210	1	U	1	U	1	U	1	U
1,2-Dichloroethane	0.3	0.4 [d]	U	0.4 [a]	U	0.4 [d]	U	0.4 [a]	U
1,2-Dichloropropane	0.92	1	U	1	U	1	U	1	U
1,3-Dichlorobenzene	5	1	U	1	U	1	U	1	U
1,4-Dichlorobenzene	15	1	U	1	U	1	U	1	U
2-Butanone (MEK)	4300	10	U	10	U	10	U	4.1	J
2-Hexanone	40	5	U	5 [a]	U	5	U	5	U
4-Methyl-2-pentanone(MIBK)	NC	5	U	5 [a]	U	5	U	5	U
Acetone	6000	15.1		5.2	J	8.1	J	16.9	
Benzene	0.45	0.049 [c]	J	0.035	J	0.067 [c]	J	0.054	J
Bromochloromethane	NC	1	U	1	U	1	U	1	U
Bromodichloromethane	0.98	1	U	1	U	1	U	1	U
Bromoform	7.4	1	U	1	U	1	U	1	U
Bromomethane	10	2 [e]	U	2	U	2 [e]	U	2	U
Carbon disulfide	700	2	U	2	U	2	U	2	U
Carbon tetrachloride	1	1	U	1	U	1	U	1	U
Chlorobenzene	50	1	U	1	U	1	U	1	U
Chloroethane	5*	1 [e]	U	1	U	1 [e]	U	1	U
Chloroform	70	1	U	1	U	1	U	1	U
Chloromethane	NC	1	U	1 [a]	U	1	U	1	U
cis-1,2-Dichloroethene	11	1	U	1	U	1	U	1	U
cis-1,3-Dichloropropene	0.45	0.45 [d]	U	0.45	U	0.45 [d]	U	0.45	U
Cyclohexane	NC	5	U	5	U	5	U	5	U
Dibromochloromethane	0.78	1	U	1	U	1	U	1	U
Dichlorodifluoromethane	1000	2	U	2	U	2	U	2	U
Ethylbenzene	150	1	U	1	U	1	U	1	U
Freon 113	20000	5 [a]	U	5	U	5 [a]	U	5	U
Isopropylbenzene	700	1	U	1	U	1	U	1	U
m,p-Xylene	NC	1	U	1	U	1	U	1	U
Methyl Acetate	7000	5	U	5	U	5	U	5	U
Methyl Tert Butyl Ether	70	1	U	1	U	1	U	1	U
Methylcyclohexane	NC	5	U	5	U	5	U	5	U
Methylene chloride	6	2	U	2	U	2	U	2	U
o-Xylene	NC	1	U	1	U	1	U	1	U
Styrene	100	1	U	1	U	1	U	1	U
Tetrachloroethylene	0.4	0.4	U	0.4	U	0.4	U	0.4	U
Toluene	600	3		0.6	J	2.9		70.4	
trans-1,2-Dichloroethene	100	1	U	1	U	1	U	1	U
trans-1,3-Dichloropropene	0.45	1	U	1	U	1	U	1	U
Trichloroethylene	0.28	0.28	U	0.28	U	0.28	U	0.28	U
Trichlorofluoromethane	2000	2 [e]	U	2	U	2 [e]	U	2	U

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Table 2
NJ Transit Linden Train Station Parking Lot
101 West Elizabeth Avenue, Linden, Union County, New Jersey
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Lab Sample ID:		JE14156-6		JE14355-6		JE14156-7		JE14156-8	
Date Sampled:		6/27/2025		6/30/2025		6/27/2025		6/27/2025	
Dilution Factor:		1		1		1		1	
Matrix:		Ground Water		Ground Water		Ground Water		Ground Water	
TCL VOCs (SW846 8260D AND 8260D BY SIM)									
Vinyl Chloride	0.035	0.03	U	0.03	U	0.03	U	0.03	U
Xylene (total)	1000	1	U	1	U	1	U	1	U
Total TIC, Volatile	100/500	47	J	0		12	J	10	J

Notes:

* = NJ Interim Groundwater Criteria (NJAC 7:9C 01/19)

All analytical results for groundwater in micrograms per liter (ug/L)

J = Estimated concentration below laboratory reporting limit

TICs = Tentatively Identified Compounds

U = Denotes parameters analyzed for but not detected above the identified reporting limit

NC = No criteria established for this contaminant

TCL = Target Compound List

TICs = Tentatively Identified Compounds

VOCs = Volatile Organic Compounds

a = Associated Continuing Calinration Verification (CCV) outside of control limits high, sample was ND.

c = This compound in blank spike is outside in house QC limits bias high.

d = Associated CCV outside of control limits high, sample was ND. This compound in blank spike is outside in house QC limits bias high.

e = Associated CCV outside of control limits low. A sensitivity check was analyzed to demonstrate system suitability to detect affected analyte. Sample was ND.

NJ GWQS = NJ Groundwater Criteria (NJAC 7:9C 2/3/25) and Interim Groundwater Criteria (NJAC 7:9C 1/17/19)

Bold and italic	Indicates reporting limit exceeds NJDEP's GWQS
Bold	Indicates concentration exceeds NJDEP's GWQS

MATRIXNEWORLD
A TRUE ENVIRONMENTAL COMPANY

Table 3
NJ Transit Linden Train Station Parking Lot
101 West Elizabeth Avenue, Linden, Union County, New Jersey
Ground Water Analytical Results - TCL SVOCs

Client Sample ID:	NJ Groundwater Quality Standard - 2025 (NJAC 7:9C 2/3/25)	TWP-01		TWP-02		MW-1		MW-2		FB-1	
Lab Sample ID:		JE14156-6		JE14355-6		JE23960-1		JE23960-2		JE23960-3	
Date Sampled:		6/27/2025		6/30/2025		11/20/2025		11/20/2025		11/20/2025	
Dilution Factor:		1		1		1		1		1	
Matrix:		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
TCL SVOCs (SW846 8270E AND 8270E BY SIM)											
1,1'-Biphenyl	5	1	U	1	U	1	U	1	U	1	U
1,2,4,5-Tetrachlorobenzene	NC	2	U	2	U	2	U	2	U	2	U
1,4-Dioxane	0.4	0.3	U	0.3 [h]	U	0.3	U	0.3	U	0.3	U
2,2'-Oxybis(1-chloropropane)	300	2	U	2 [h]	U	2 [h]	U	2 [h]	U	2	U
2,3,4,6-Tetrachlorophenol	200	4	U	4 [a]	U	4	U	4	U	4	U
2,4,5-Trichlorophenol	700	4	U	4	U	4	U	4	U	4	U
2,4,6-Trichlorophenol	3	4	U	4	U	4	U	4	U	4	U
2,4-Dichlorophenol	20	2	U	2	U	2	U	2	U	2	U
2,4-Dimethylphenol	100	4	U	4	U	4	U	4	U	4	U
2,4-Dinitrophenol	10	4 [a]	U	4 [a]	U	4 [a]	U	4 [a]	U	4	U
2,4-Dinitrotoluene	5.2	1 [a]	U	1 [a]	U	1	U	1	U	1	U
2,6-Dinitrotoluene	5.2	1 [a]	U	1 [a]	U	1	U	1	U	1	U
2-Chloronaphthalene	600	2	U	2	U	2	U	2	U	2	U
2-Chlorophenol	40	4	U	4	U	4	U	4	U	4	U
2-Methylnaphthalene	30	1	U	1	U	1	U	1	U	1	U
2-Methylphenol	50	2	U	2	U	2	U	2	U	2	U
2-Nitroaniline	NC	4 [a]	U	4	U	4	U	4	U	4	U
2-Nitrophenol	NC	4 [a]	U	4 [a]	U	4	U	4	U	4	U
3&4-Methylphenol	50	2	U	2	U	2	U	2	U	2	U
3,3'-Dichlorobenzidine	5.2	2	U	2	U	2	U	2	U	2	U
3-Nitroaniline	NC	4	U	4	U	4	U	4	U	4	U
4,6-Dinitro-o-cresol	0.7	0.4	U	0.4	U	0.4	U	0.4	U	0.4	U
4-Bromophenyl phenyl ether	NC	2	U	2	U	2	U	2	U	2	U
4-Chloro-3-methyl phenol	700	4	U	4	U	4	U	4	U	4	U
4-Chloroaniline	5	4	U	4	U	4	U	4	U	4	U
4-Chlorophenyl phenyl ether	NC	2	U	2	U	2	U	2	U	2	U
4-Nitroaniline	NC	4	U	4	U	4	U	4	U	4	U
4-Nitrophenol	NC	8	U	8	U	8	U	8	U	8	U
Acenaphthene	400	1	U	1	U	1	U	1	U	1	U
Acenaphthylene	100*	1	U	1	U	1	U	1	U	1	U
Acetophenone	700	0.86	J	0.98	J	2	U	2	U	2	U
Anthracene	2000	1	U	1	U	1	U	1	U	1	U
Atrazine	3	2	U	2	U	2	U	2	U	2	U
Benzaldehyde	NC	4	U	4	U	4	U	4	U	4	U
Benzo(a)anthracene	0.1	**1.17**		0.04 [h]	U	0.04	U	0.04	U	0.04	U
Benzo(a)pyrene	0.1	**1.06**		0.0331	J	0.04	U	0.04	U	0.04	U
Benzo(b)fluoranthene	0.2	**1.49**		0.0699		0.04	U	0.04	U	0.04	U
Benzo(g,h,i)perylene	100*	1.1		1 [h]	U	1 [a]	U	1 [a]	U	1	U
Benzo(k)fluoranthene	1	0.533 [b]		0.08	U	0.08	U	0.08	U	0.08	U
bis(2-Chloroethoxy)methane	NC	2	U	2	U	2	U	2	U	2	U
bis(2-Chloroethyl)ether	7	2	U	2	U	2	U	2	U	2	U
bis(2-Ethylhexyl)phthalate	3	2 [a]	U	2.7		2	U	2	U	2	U
Butyl benzyl phthalate	18	2 [a]	U	2	U	2	U	2	U	2	U
Caprolactam	4000	2	U	2	U	2	U	2	U	2	U
Carbazole	NC	1	U	1	U	1	U	1	U	1	U
Chrysene	10	1.2		1	U	1	U	1	U	1	U
Dibenzo(a,h)anthracene	0.3	0.186		0.08	U	0.08	U	0.08	U	0.08	U
Dibenzofuran	NC	4	U	4	U	4	U	4	U	4	U
Diethyl phthalate	6000	5.2		4.2		2	U	2	U	2	U
Dimethyl phthalate	20000	2	U	0.56	J	2	U	2	U	2	U
Di-n-butyl phthalate	700	0.68	J	0.95	J	2	U	2	U	2	U
Di-n-octyl phthalate	80	2 [a]	U	2 [a]	U	2	U	2	U	2	U
Fluoranthene	300	1.7		1	U	1	U	1	U	1	U
Fluorene	300	1	U	1	U	1	U	1	U	1	U
Hexachlorobenzene	0.033	0.02	U	0.02	U	0.02	U	0.02	U	0.02	U
Hexachlorobutadiene	1	1	U	1 [h]	U	1	U	1	U	1	U
Hexachlorocyclopentadiene	40	8	U	8 [a]	U	8	U	8	U	8	U
Hexachloroethane	0.8	***2***	U	***2***	U	***2***	U	***2***	U	***2***	U
Indeno(1,2,3-cd)pyrene	0.2	**0.674**		0.08	U	0.08	U	0.08	U	0.08	U
Isophorone	40	2	U	2	U	2	U	2	U	2	U
Naphthalene	300	0.91	J	1	U	1	U	1	U	1	U

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Table 3
NJ Transit Linden Train Station Parking Lot
101 West Elizabeth Avenue, Linden, Union County, New Jersey
Ground Water Analytical Results - TCL SVOCs

Client Sample ID:	NJ Groundwater Quality Standard - 2025 (NJAC 7:9C 2/3/25)	TWP-01		TWP-02		MW-1		MW-2		FB-1	
Lab Sample ID:		JE14156-6		JE14355-6		JE23960-1		JE23960-2		JE23960-3	
Date Sampled:		6/27/2025		6/30/2025		11/20/2025		11/20/2025		11/20/2025	
Dilution Factor:		1		1		1		1		1	
Matrix:		Ground Water		Ground Water		Ground Water		Ground Water		Ground Water	
TCL SVOCs (SW846 8270E AND 8270E BY SIM)											
Nitrobenzene	1.2	***2***	U	***2***	U	***2***	U	***2***	U	***2***	U
N-Nitroso-di-n-propylamine	1.6	***2***	U	***2***	U	***2***	U	***2***	U	***2***	U
N-Nitrosodiphenylamine	10	4	U	4	U	4	U	4	U	4	U
Pentachlorophenol	0.1	**0.888**		**0.13**	J	***0.2***	U	***0.2***	U	***0.2***	U
Phenanthrene	100	1	U	1	U	1	U	1	U	1	U
Phenol	2000	2	U	1.7	J	2	U	2	U	2	U
Pyrene	200	1.8		1	U	1	U	1	U	1	U
Total SVOC TIC	100/500	253.4	J	165.4	J	67.5	J	151.6	J	93.4	J

Notes:

* = NJ Interim Groundwater Criteria (NJAC 7:9C 11/15)
All analytical results for groundwater in micrograms per liter (ug/L)
a = Associated Continuing Calibration Verification (CCV) outside of control limits high, sample was ND.
b = Associated CCV outside of control limits high. Estimated value, due to corresponding failure in the batch associated CCV.
h = Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
J = Estimated concentration below laboratory reporting limit
U = Denotes parameters analyzed for but not detected above the identified reporting limit
NC = No criteria established for this contaminant
- = Not Analyzed
SIM = Selected Ion Monitoring
SVOCs = Semi-Volatile Organic Compounds
TCL = Target Compound List
TICs = Tentatively Identified Compounds
NJ GWQS = NJ Groundwater Criteria (NJAC 7:9C 2/3/2025) and Interim Groundwater Criteria (NJAC 7:9C 1/17/19)

Bold and italic	Indicates reporting limit exceeds NJDEP's GWQS
Bold	Indicates concentration exceeds NJDEP's GWQS

MATRIXNEWORLD
A TRUE ENVIRONMENTAL COMPANY

Table 4
Ground Water Depth Table
NJEDA - NJ Transist Linden Station Parking Lot
101 West Elizabeth Avenue
Linden, Union County, New Jersey
NJDEP CSRR PI No. 012948

						11/20/2025
Well ID	**Permit #**	**Date Installed**	**Inner Casing Diameter**	**Total Depth**	**Screened Interval**	**Depth to Water**
MW-1	E202510481	11/5/2025	2	15	10-15	6.6
MW-2	E202510482	11/5/2025	2	17	10-17	8.75

NOTES

Diameters provided in inches

Depths provided in feet below ground surface

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Attachment C
Monitoring Well Permits and Well Logs

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E202510481

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: NEW JERSEY TRANSIT CORP

Organization: New Jersey Transit Corp

Address: One Penn Plaza East

City: Newark State: New Jersey Zip Code: 07105

PROPOSED WELL LOCATION

Facility Name: NJ Transit Linden Station - South Parking Lot

Address: 101 W Elizabeth Ave

County: Union Municipality: Linden City Lot: 10 Block: 254

Easting (X): 560506 Northing (Y): 654134
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-1

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s):

Diameter (in.): 2

Regulatory Program Requiring Wells/Borings:

Depth (ft.): 15

Case ID Number:

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments:

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: October 23, 2025
Expiration Date: October 23, 2026

Approved by the authority of:
Shawn M. LaTourette
Commissioner

Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Wells
PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E202510481

WELL PERMIT

New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

MATRIXNEWORLD
Engineering Progress

WELL LOG

BORING NO.: **MW-1**

SHEET **1** OF **1**

PROJECT NO. **25-0406** PROJECT: **NJ Transit Linden Station Parking Lot** DATE: **11/5/2025**

PROJECT LOCATION: **Linden, NJ** CLIENT: **NJEDA**

BORING LOCATION: **MW-1** DRILLER: **Jeremy Wilkins**

DRILLING CONTRACTOR: **EPI** LOGGED BY:

DRILLING EQUIPMENT: **Geoprobe 7720DT**

DRILLING METHOD: **Hollow Stem Auger**

BOREHOLE DEPTH (ft): **15** BOREHOLE DIAMETER (in): **6**

ELEV.: DATUM:

Easting Northing

GROUNDWATER LEVEL

Date	Time	Depth	Casing Depth
11/5/2025		**6.1**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Well Design	Lab Tests and Well Construction Description
1		Brown Coarse SAND and Silt, some rounded gravel, dry, no odor/no staining/no sheen			0		2" PVC Riser
2					0		
3					0		Bentonite
4		Reddish brown Coarse SAND and Silt, some rounded gravel, dry, no odor/no staining/no sheen			0		Choker Sand
5					0		
6		Red brown Silty SAND, some rounded gravel, dry, no odor/no staining/no sheen			0		
7					0		
8					0		
9		Red brown Silty SAND, little rounded gravel, saturated, no odor/no staining/no sheen			0		
10					0		2" PVC 0.010 Slotted Screen
11					0		
12		Red brown coarse to fine SAND and Gravel, some Silt, saturated, no odor/no staining/no sheen			0		
13					0		
14					0		
15					0		
16		End of Boring: 15' bgs					
17							
18							
19							
20							
21							
22							
23							

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Well Permitting
Mail Code 401-04Q PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E202510482

WELL PERMIT

New Well

The New Jersey Department of Environmental Protection grants this permit in accordance with your application, attachments accompanying same application, and applicable laws and regulations. This permit is also subject to further conditions and stipulations enumerated in the supporting documents which are agreed to by the permittee upon acceptance of the permit

Certifying Driller: BRIAN D KOKOT, JOURNEYMAN LICENSE # 0017863

Permit Issued to: ENVIRONMENTAL PROBING INVESTIGATION

Company Address: 833 MONMOUTH RD CREAM RIDGE, NJ 08514

PROPERTY OWNER

Name: NEW JERSEY TRANSIT CORP

Organization: New Jersey Transit Corp

Address: One Penn Plaza East

City: Newark State: New Jersey Zip Code: 07105

PROPOSED WELL LOCATION

Facility Name: NJ Transit Linden Station - South Parking Lot

Address: 101 W Elizabeth Ave

County: Union Municipality: Linden City Lot: 10 Block: 254

Easting (X): 560575 Northing (Y): 654292
Coordinate System: NJ State Plane (NAD83) - USFEET

Local ID: MW-2

SITE CHARACTERISTICS

PROPOSED CONSTRUCTION

WELL USE: MONITORING

Other Use(s):

Diameter (in.): 2

Regulatory Program Requiring Wells/Borings:

Depth (ft.): 15

Case ID Number:

Pump Capacity (gpm): 0

Deviation Requested: N

Drilling Method: Hollow Stem Augers

Attachments:

SPECIFIC CONDITIONS/REQUIREMENTS

Approval Date: October 23, 2025
Expiration Date: October 23, 2026

Approved by the authority of:
Shawn M. LaTourette
Commissioner

Kathleen Burkhard, Bureau Chief
Bureau of Water Allocation and Well Permitting

New Jersey State Department of Environmental Protection
Bureau of Water Allocation and Wells
PO BOX 420 Trenton, NJ 08625-0420 Tel: 609-984-6831

Well Permit Number
E202510482

WELL PERMIT

New Well

DEVIATION INFORMATION	
Purpose:	
Unusual Conditions:	
Reason for Deviation:	
Proposed Well Construction	

GENERAL CONDITIONS/REQUIREMENTS
A copy of this permit shall be kept at the worksite / on the property and shall be exhibited upon request. [N.J.A.C. 7:9D-1]
A well record must be submitted by the well driller to the Bureau of Water Systems and Well Permitting. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the well record shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Record: within ninety (90) days after the well is completed.[N.J.A.C. 7:9D-1]
All well drilling/pump installation activities shall comply with N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
For this permit to remain valid, the well approved in this permit shall be constructed within one year of the effective date of the permit. [N.J.A.C. 7:9D-1]
If the pump capacity applied for is less than 70 gpm, no subsequent increase to 70 gpm or more shall be made without prior approval of the Bureau of Water Systems and Well Permitting. [N.J.A.C. 7:9D-1]
If the use of the well is to be changed a well permit for the proposed use of the well shall be submitted for review and approval. [N.J.A.C. 7:9D-1]
If you or a future property owner intend to redesignate this well as a Category 1 well (domestic, non-public, community water supply or public non-community water supply wells), the well must be constructed as a Category 1 well per the Well Construction and Abandonment Regulations at N.J.A.C. 7:0D-1.1 et seq. In addition, if the current or future property owner intends to have this well redesignated as a community water supply well, the well must be constructed by a Master well driller, which would include having a Master well driller on-site at all times during construction of the well, as specified in the Well Construction and Abandonment Regulations. Otherwise, the New Jersey Department of Environmental Protection will not allow the well to be redesignated, and a new well would have to be installed. [N.J.A.C. 7:9D-1.7((a))1i]
In accepting this permit the Property Owner and Driller agree to abide by the following terms and conditions [N.J.A.C. 7:9D-1]
In the event that this well is not constructed the well driller shall notify the Bureau of Water Systems and Well Permitting of the permit cancellation. Unless prior written approval is obtained from the Bureau of Water Systems and Well Permitting the Cancellation notification shall be submitted electronically through the New Jersey Department of Environmental Protection's Regulatory Services Portal Submit Well Permit Cancellation : by the expiration date of this permit.[N.J.A.C. 7:9D-1]
In the event this well is abandoned, the Owner or Well driller shall assume full responsibility for having the well decommissioned in a manner satisfactory to the New Jersey Department of Environmental Protection in accordance with the provisions of N.J.A.C. 7:9D-1 et seq. [N.J.A.C. 7:9D-1]
The granting of this permit shall not be construed in any way to affect the title or ownership of property, and shall not make the New Jersey Department of Environmental Protection or the State a party in any suit or question of ownership of property. [N.J.A.C. 7:9D-1]
The issuance of this permit shall not be deemed to affect in any way action by the New Jersey Department of Environmental Protection on any future application. [N.J.A.C. 7:9D-1]
This permit conveys no rights, either expressed, or implied to divert water. [N.J.A.C. 7:9D-1]
This permit does not waive the obtaining of Federal or other State or local Government consent when necessary. This permit is not valid and no work shall be undertaken until such time as all other required approvals and permits have been obtained. [N.J.A.C. 7:9D-1]
This permit is NONTRANSFERABLE [N.J.A.C. 7:9D]
This well shall not be used for the supply of potable / drinking water. [N.J.A.C. 7:9D-1]

MATRIXNEWORLD
Engineering Progress

WELL LOG

BORING NO.: **MW-2**

SHEET **1** OF **1**

PROJECT NO. **25-0406** PROJECT: **NJ Transit Linden Station Parking Lot** DATE: **11/5/2025**

PROJECT LOCATION: **Linden, NJ** CLIENT: **NJEDA**

BORING LOCATION: **MW-1** DRILLER: **Jeremy Wilkins**

DRILLING CONTRACTOR: **EPI** LOGGED BY: **0**

DRILLING EQUIPMENT: **Geoprobe 7720DT**

DRILLING METHOD: **Hollow Stem Auger**

BOREHOLE DEPTH (ft): **17** BOREHOLE DIAMETER (in): **6**

ELEV.: DATUM:

Easting Northing

GROUNDWATER LEVEL			
Date	Time	Depth	Casing Depth
11/5/2025		**8.4**	

Depth Feet (Elev.)	Graphic	Description of Material	Sample Name	Sample Time	PID	Well Design	Lab Tests and Well Construction Description
1		Brown coarse SAND and Silt, some rounded gravel, dry, no odor/no staining/no sheen			0		2" PVC Riser
2					0		
3		Reddish brown SILT, some coarse Sand, dry, no odor/no staining/no sheen			0		Bentonite
4		Red brown SILT and coarse Sand, some rounded gravel, dry, no odor/no staining/no sheen			0.1		Choker Sand
5					0.3		
6		Brown red SILT, some coarse Sand, dry, no odor/no staining/no sheen			0		
7					0.5		
8		Brown red Clayey SILT, dry, no odor/no staining/no sheen			0		2" PVC 0.010 Slotted Screen
9					0		
10					0		
11					0		
12					0		
13					0		
14		Brown red Clayey SILT, slightly moist, no odor/no staining/no sheen			0		
15		Brown red Clayey SILT, saturated, no odor/no staining/no sheen			0		
16					0		
17					0		
18		End of Boring: 17' bgs					
19							
20							
21							
22							
23							

Notes:
PID - Photoionization Detector NA - Not Applicable NE - Not Encountered
ppm - parts per million ppb - parts per billion

MATRIXNEWORLD
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Attachment D
Monitoring Well Purge Guides

MATRIX NEW WORLD

NJDEP Lab Certification Number - 14049

MATRIXNEWORLD
A TRUE ENVIRONMENTAL COMPANY

MONITORING WELL SAMPLING FORM

MW1

Project Name:	NJEDA NJT Linden Station Parking Lot	Date:	11/20/2025
Project No:	25-0406	Sampled By:	ST

BEFORE PURGING

a.	Time:	9:50		k.	Weather:	40s (F) and overcast	
b.	Free Product Thickness:	N/A	ft.	l.	Temperature:	15.92	ºC
c.	PID:	0.20	ppm	m.	pH:	8.3	s.u.
d.	Total Depth of Well from Top of PVC:	14.91	ft btoc	n.	ORP:	-49	mV
e.	Depth to Top of Screen:	5.00	ft btoc	o.	Conductivity:	0.704	mS/cm
f.	Depth from Top of PVC to Water:	6.60	ft btoc	p.	Turbidity:	0.0	NTU
g.	Estimated Volume in Well:	1.36	gallons	q.	DO:	2.58	mg/L
h.	Well diameter:	2	inches				
i.	3 x Well Volume:	4.07	gallons				
j.	Permit No:	E202510481					

AFTER PURGING

a.	Start and End Time of Purging:	9:50	- 10:10	f.	Temperature:	16.22	ºC
b.	Depth to Water after Purging:	6.45	ft btoc	g.	pH:	7.6	s.u.
c.	Total Volume Purged:	5.0	gallons	h.	ORP:	3	mV
d.	Purge Method:	Volume Average		i.	Conductivity:	0.151	mS/cm
e.	Purge Rate:	0.25	gpm	j.	Turbidity:	154.0	NTU
				k.	DO:	4.42	mg/L

BEFORE SAMPLING

a.	Depth to Water from PVC:	6.45	ft btoc

AFTER SAMPLING

a.	Start and End Time of Sampling:	10:10 - 10:12	
b.	Temperature:	18.36	ºC
d.	pH:	7.02	s.u.
e.	ORP:	32	mV
f.	Conductivity:	0.102	mS/cm
g.	Turbidity:	169.0	NTU
h.	DO:	6.47	mg/L

SAMPLE ANALYSIS

TCL SVOC+15 (Low-Level SIM)

COMMENTS

Due to an error by equipment rental company, all turbidity values are inaccurate - was missing solution needed to calibrate turbidity sensor. Initial water appeared highly turbid with no smell and no sheen. After purging water became less turbid, still no smell and no sheen.

MATRIX NEW WORLD

NJDEP Lab Certification Number - 14049

MATRIXNEWORLD
A TRUE ENVIRONMENTAL COMPANY

MONITORING WELL SAMPLING FORM

MW2

Project Name:	NJEDA NJT Linden Station Parking Lot	Date:	11/20/2025
Project No:	25-0406	Sampled By:	ST

BEFORE PURGING

a.	Time:	10:40		k.	Weather:	40s (F) and overcast	
b.	Free Product Thickness:	N/A	ft.	l.	Temperature:	15.80	ºC
c.	PID:	0.10	ppm	m.	pH:	6.8	s.u.
d.	Total Depth of Well from Top of PVC:	16.85	ft btoc	n.	ORP:	33	mV
e.	Depth to Top of Screen:	5.00	ft btoc	o.	Conductivity:	0.555	mS/cm
f.	Depth from Top of PVC to Water:	8.75	ft btoc	p.	Turbidity:	0.0	NTU
g.	Estimated Volume in Well:	1.32	gallons	q.	DO:	5.34	mg/L
h.	Well diameter:	2	inches				
i.	3 x Well Volume:	3.96	gallons				
j.	Permit No:	E202510482					

AFTER PURGING

a.	Start and End Time of Purging:	10:40	- 11:00	f.	Temperature:	17.59	ºC
b.	Depth to Water after Purging:	8.70	ft btoc	g.	pH:	6.9	s.u.
c.	Total Volume Purged:	5.0	gallons	h.	ORP:	-28	mV
d.	Purge Method:	Volume Average		i.	Conductivity:	0.499	mS/cm
e.	Purge Rate:	0.25	gpm	j.	Turbidity:	47.8	NTU
				k.	DO:	2.75	mg/L

BEFORE SAMPLING

a.	Depth to Water from PVC:	8.75	ft btoc

AFTER SAMPLING

a.	Start and End Time of Sampling:	11:00 - 11:02	
b.	Temperature:	18.16	ºC
d.	pH:	6.97	s.u.
e.	ORP:	-25	mV
f.	Conductivity:	0.498	mS/cm
g.	Turbidity:	34.5	NTU
h.	DO:	2	mg/L

SAMPLE ANALYSIS

TCL SVOC+15 (Low-Level SIM)

COMMENTS

Due to an error by equipment rental company, all turbidity values are inaccurate - was missing solution needed to calibrate turbidity sensor. Initial water appeared turbid with no smell and no sheen. After purging water appeared completely clear, still with no smell and no sheen.

MATRIXNEWORLD
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Attachment E
Laboratory Analytical Data Report

The results set forth herein are provided by SGS North America Inc.

e-Hardcopy 2.0
Automated Report

Technical Report for

Matrix New World Engineering, Inc.

NJ Transit Linden Station Parking Lot, Linden, NJ

25-0406

SGS Job Number: JE23960

Sampling Date: 11/20/25

Report to:

Matrix New World Engineering, Inc.
26 Columbia Turnpike
Florham Park, NJ 07932
cnelson@matrixneworld.com

ATTN: Chris Nelson

Total number of pages in report: 205

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Olga Azarian
Technical Director

Client Service contact: Tammy McCloskey 732-329-0200
Certifications: NJ(12129),NY(10983),CA,CO,CT,FL,HI,IL,IN,KY,LA (120428),MA,MD,ME,MN,NC,NH,NV, AK (UST-103),AZ (AZ0786),PA(68-00408),RI,SC,TX (T104704234),UT,VA,WA,WV

Sections: 1 2 3 4 5 6 7

Table of Contents

SGS North America Inc.

Sample Summary

Matrix New World Engineering, Inc.

Job No: JE23960

NJ Transit Linden Station Parking Lot, Linden, NJ
Project No: 25-0406

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
This report contains results reported as ND = Not detected. The following applies:							
Organics ND = Not detected above the MDL							
JE23960-1	11/20/25	10:10	ST	11/21/25	AQ	Ground Water	MW-1
JE23960-2	11/20/25	11:00	ST	11/21/25	AQ	Ground Water	MW-2
JE23960-3	11/20/25	11:20	ST	11/21/25	AQ	Field Blank Water	FB-1

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	Matrix New World Engineering, Inc.	**Job No:**	JE23960
Site:	NJ Transit Linden Station Parking Lot, Linden, NJ	**Report Date**	12/9/2025 4:06:15 AM

On 11/21/2025, 2 sample(s), 0 Trip Blank(s), 0 Equip. Blank(s) and 1 Field Blank(s) were received at SGS North America Inc. (SGS) at a temperature of 3.7 °C. The samples were intact and properly preserved, unless noted below. An SGS Job Number of JE23960 was assigned to the project. The lab sample ID, client sample ID, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

MS Semi-volatiles By Method SW846 8270E

Matrix: AQ **Batch ID:** OP69240

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- JE23960-2 for 2,2'-Oxybis(1-chloropropane): Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JE23960-2 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high, sample was ND.
- JE23960-2 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.
- JE23960-1 for 2,2'-Oxybis(1-chloropropane): Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.
- JE23960-1 for Benzo(g,h,i)perylene: Associated CCV outside of control limits high, sample was ND.
- JE23960-1 for 2,4-Dinitrophenol: Associated CCV outside of control limits high, sample was ND.

MS Semi-volatiles By Method SW846 8270E BY SIM

Matrix: AQ **Batch ID:** OP69305A

- All samples were extracted within the recommended method holding time.
- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

SGS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting SGS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

SGS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by SGS indicated via signature on the report cover.

Summary of Hits

Job Number: JE23960
Account: Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ
Collected: 11/20/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
JE23960-1	**MW-1**					
Total TIC, Semi-Volatile		67.5 J			ug/l	
JE23960-2	**MW-2**					
Total TIC, Semi-Volatile		151.6 J			ug/l	
JE23960-3	**FB-1**					
Total TIC, Semi-Volatile		93.4 J			ug/l	

Sample Results

Report of Analysis

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JE23960-1	**Date Sampled:**	11/20/25
Matrix:	AQ - Ground Water	**Date Received:**	11/21/25
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	NJ Transit Linden Station Parking Lot, Linden, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P115133.D	1	11/26/25 23:53	TL	11/24/25 12:00	OP69240	E3P5428
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

ABN TCL List without all PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	4.0	0.37	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.0	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	0.52	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.0	0.67	ug/l	
51-28-5	2,4-Dinitrophenol [a]	ND	4.0	1.9	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.47	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	4.0	0.40	ug/l	
100-02-7	4-Nitrophenol	ND	8.0	0.45	ug/l	
108-95-2	Phenol	ND	2.0	0.26	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.0	0.64	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.0	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.0	0.59	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.61	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.42	ug/l	
98-86-2	Acetophenone	ND	2.0	0.52	ug/l	
120-12-7	Anthracene	ND	1.0	0.56	ug/l	
1912-24-9	Atrazine	ND	2.0	0.72	ug/l	
100-52-7	Benzaldehyde	ND	4.0	0.44	ug/l	
191-24-2	Benzo(g,h,i)perylene [a]	ND	1.0	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.55	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.86	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.43	ug/l	
106-47-8	4-Chloroaniline	ND	4.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.58	ug/l	
105-60-2	Caprolactam	ND	2.0	0.35	ug/l	
218-01-9	Chrysene	ND	1.0	0.52	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.46	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane) [b]	ND	2.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.60	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-1
Lab Sample ID: JE23960-1
Matrix: AQ - Ground Water
Method: SW846 8270E SW846 3510C
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Date Sampled: 11/20/25
Date Received: 11/21/25
Percent Solids: n/a

ABN TCL List without all PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.56	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	1.1	ug/l	
132-64-9	Dibenzofuran	ND	4.0	0.73	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.53	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	1.6	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.58	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.55	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.3	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.58	ug/l	
86-73-7	Fluorene	ND	1.0	0.59	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	8.0	0.98	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
78-59-1	Isophorone	ND	2.0	0.39	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.64	ug/l	
88-74-4	2-Nitroaniline	ND	4.0	0.62	ug/l	
99-09-2	3-Nitroaniline	ND	4.0	0.64	ug/l	
100-01-6	4-Nitroaniline	ND	4.0	0.75	ug/l	
91-20-3	Naphthalene	ND	1.0	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.65	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.0	0.42	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.48	ug/l	
129-00-0	Pyrene	ND	1.0	0.50	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	42%		10-69%
4165-62-2	Phenol-d5	30%		10-47%
118-79-6	2,4,6-Tribromophenol	91%		17-144%
4165-60-0	Nitrobenzene-d5	64%		17-126%
321-60-8	2-Fluorobiphenyl	71%		23-124%
1718-51-0	Terphenyl-d14	86%		13-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	8.37	8.4	ug/l	J
57-11-4	Octadecanoic acid	9.43	8.6	ug/l	JN
	Unknown	9.99	7.7	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JE23960-1	**Date Sampled:**	11/20/25
Matrix:	AQ - Ground Water	**Date Received:**	11/21/25
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	NJ Transit Linden Station Parking Lot, Linden, NJ		

ABN TCL List without all PAH

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Alkane	10.85	18	ug/l	J
	Alkane	11.61	15	ug/l	J
	Alkane	12.32	9.8	ug/l	J
	Total TIC, Semi-Volatile		67.5	ug/l	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	JE23960-1	**Date Sampled:**	11/20/25
Matrix:	AQ - Ground Water	**Date Received:**	11/21/25
Method:	SW846 8270E BY SIM SW846 3510C	**Percent Solids:**	n/a
Project:	NJ Transit Linden Station Parking Lot, Linden, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CS9992.D	1	11/25/25 21:48	AC	11/25/25 09:00	OP69305A	ECS503
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
534-52-1	4,6-Dinitro-o-cresol	ND	0.40	0.28	ug/l	
87-86-5	Pentachlorophenol	ND	0.20	0.060	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.040	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.040	0.024	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.040	0.024	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.080	0.040	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.080	0.040	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.014	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.25	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.080	0.040	ug/l	
123-91-1	1,4-Dioxane	ND	0.30	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		15-110%
4165-62-2	Phenol-d5	32%		12-110%
118-79-6	2,4,6-Tribromophenol	72%		32-143%
4165-60-0	Nitrobenzene-d5	68%		29-124%
321-60-8	2-Fluorobiphenyl	60%		23-122%
1718-51-0	Terphenyl-d14	69%		22-130%

ND = Not detected MDL = Method Detection Limit J = Indicates an estimated value
RL = Reporting Limit B = Indicates analyte found in associated method blank
E = Indicates value exceeds calibration range N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JE23960-2	**Date Sampled:**	11/20/25
Matrix:	AQ - Ground Water	**Date Received:**	11/21/25
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	NJ Transit Linden Station Parking Lot, Linden, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3P115134.D	1	11/27/25 00:13	TL	11/24/25 12:00	OP69240	E3P5428
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

ABN TCL List without all PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	4.0	0.37	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.0	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	0.52	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.0	0.67	ug/l	
51-28-5	2,4-Dinitrophenol [a]	ND	4.0	1.9	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.47	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	4.0	0.40	ug/l	
100-02-7	4-Nitrophenol	ND	8.0	0.45	ug/l	
108-95-2	Phenol	ND	2.0	0.26	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.0	0.64	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.0	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.0	0.59	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.61	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.42	ug/l	
98-86-2	Acetophenone	ND	2.0	0.52	ug/l	
120-12-7	Anthracene	ND	1.0	0.56	ug/l	
1912-24-9	Atrazine	ND	2.0	0.72	ug/l	
100-52-7	Benzaldehyde	ND	4.0	0.44	ug/l	
191-24-2	Benzo(g,h,i)perylene [a]	ND	1.0	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.55	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.86	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.43	ug/l	
106-47-8	4-Chloroaniline	ND	4.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.58	ug/l	
105-60-2	Caprolactam	ND	2.0	0.35	ug/l	
218-01-9	Chrysene	ND	1.0	0.52	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.46	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane) [b]	ND	2.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.60	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: MW-2
Lab Sample ID: JE23960-2
Matrix: AQ - Ground Water
Method: SW846 8270E SW846 3510C
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Date Sampled: 11/20/25
Date Received: 11/21/25
Percent Solids: n/a

ABN TCL List without all PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.56	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	1.1	ug/l	
132-64-9	Dibenzofuran	ND	4.0	0.73	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.53	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	1.6	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.58	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.55	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.3	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.58	ug/l	
86-73-7	Fluorene	ND	1.0	0.59	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	8.0	0.98	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
78-59-1	Isophorone	ND	2.0	0.39	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.64	ug/l	
88-74-4	2-Nitroaniline	ND	4.0	0.62	ug/l	
99-09-2	3-Nitroaniline	ND	4.0	0.64	ug/l	
100-01-6	4-Nitroaniline	ND	4.0	0.75	ug/l	
91-20-3	Naphthalene	ND	1.0	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.65	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.0	0.42	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.48	ug/l	
129-00-0	Pyrene	ND	1.0	0.50	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		10-69%
4165-62-2	Phenol-d5	26%		10-47%
118-79-6	2,4,6-Tribromophenol	86%		17-144%
4165-60-0	Nitrobenzene-d5	66%		17-126%
321-60-8	2-Fluorobiphenyl	69%		23-124%
1718-51-0	Terphenyl-d14	82%		13-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
57-11-4	Octadecanoic acid	9.43	3.4	ug/l	JN
	Alkane	10.44	7.6	ug/l	J
	Alkane	10.85	8.2	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	JE23960-2	**Date Sampled:**	11/20/25
Matrix:	AQ - Ground Water	**Date Received:**	11/21/25
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	NJ Transit Linden Station Parking Lot, Linden, NJ		

ABN TCL List without all PAH

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Alkane	11.23	7.8	ug/l	J
	Alkane	11.60	19	ug/l	J
	Unknown	11.79	4.4	ug/l	J
	Alkane	11.97	7.3	ug/l	J
	Unknown	12.02	4.8	ug/l	J
	Alkane	12.32	56	ug/l	J
	Alkane	12.67	7.6	ug/l	J
	Unknown	12.83	9.8	ug/l	J
	Unknown	12.95	3.9	ug/l	J
	Alkane	13.05	8.5	ug/l	J
	Unknown	13.48	3.3	ug/l	J
	Total TIC, Semi-Volatile		151.6	ug/l	J

(a) Associated CCV outside of control limits high, sample was ND.
(b) Associated CCV outside of control limits low. Low-level verification was analyzed to demonstrate system suitability to detect affected analytes. Sample was ND.

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: MW-2
Lab Sample ID: JE23960-2
Matrix: AQ - Ground Water
Method: SW846 8270E BY SIM SW846 3510C
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Date Sampled: 11/20/25
Date Received: 11/21/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CS9993.D	1	11/25/25 22:12	AC	11/25/25 09:00	OP69305A	ECS503
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
534-52-1	4,6-Dinitro-o-cresol	ND	0.40	0.28	ug/l	
87-86-5	Pentachlorophenol	ND	0.20	0.060	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.040	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.040	0.024	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.040	0.024	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.080	0.040	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.080	0.040	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.014	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.25	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.080	0.040	ug/l	
123-91-1	1,4-Dioxane	ND	0.30	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	41%		15-110%
4165-62-2	Phenol-d5	30%		12-110%
118-79-6	2,4,6-Tribromophenol	68%		32-143%
4165-60-0	Nitrobenzene-d5	57%		29-124%
321-60-8	2-Fluorobiphenyl	54%		23-122%
1718-51-0	Terphenyl-d14	65%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JE23960-3	**Date Sampled:**	11/20/25
Matrix:	AQ - Field Blank Water	**Date Received:**	11/21/25
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	NJ Transit Linden Station Parking Lot, Linden, NJ		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5P106534.D	1	11/25/25 18:49	TL	11/24/25 12:00	OP69240	E5P5039
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

ABN TCL List without all PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	4.0	0.37	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.0	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	0.52	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.0	0.67	ug/l	
51-28-5	2,4-Dinitrophenol	ND	4.0	1.9	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.47	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	4.0	0.40	ug/l	
100-02-7	4-Nitrophenol	ND	8.0	0.45	ug/l	
108-95-2	Phenol	ND	2.0	0.26	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.0	0.64	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.0	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.0	0.59	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.61	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.42	ug/l	
98-86-2	Acetophenone	ND	2.0	0.52	ug/l	
120-12-7	Anthracene	ND	1.0	0.56	ug/l	
1912-24-9	Atrazine	ND	2.0	0.72	ug/l	
100-52-7	Benzaldehyde	ND	4.0	0.44	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.55	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.86	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.43	ug/l	
106-47-8	4-Chloroaniline	ND	4.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.58	ug/l	
105-60-2	Caprolactam	ND	2.0	0.35	ug/l	
218-01-9	Chrysene	ND	1.0	0.52	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.46	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.60	ug/l	

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: FB-1
Lab Sample ID: JE23960-3
Matrix: AQ - Field Blank Water
Method: SW846 8270E SW846 3510C
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Date Sampled: 11/20/25
Date Received: 11/21/25
Percent Solids: n/a

ABN TCL List without all PAH

CAS No.	Compound	Result	RL	MDL	Units	Q
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.56	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	1.1	ug/l	
132-64-9	Dibenzofuran	ND	4.0	0.73	ug/l	
84-74-2	Di-n-butyl phthalate	ND	2.0	0.53	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	1.6	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.58	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.55	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.3	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.58	ug/l	
86-73-7	Fluorene	ND	1.0	0.59	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	8.0	0.98	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
78-59-1	Isophorone	ND	2.0	0.39	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.64	ug/l	
88-74-4	2-Nitroaniline	ND	4.0	0.62	ug/l	
99-09-2	3-Nitroaniline	ND	4.0	0.64	ug/l	
100-01-6	4-Nitroaniline	ND	4.0	0.75	ug/l	
91-20-3	Naphthalene	ND	1.0	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.65	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.0	0.42	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.48	ug/l	
129-00-0	Pyrene	ND	1.0	0.50	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.48	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	44%		10-69%
4165-62-2	Phenol-d5	31%		10-47%
118-79-6	2,4,6-Tribromophenol	84%		17-144%
4165-60-0	Nitrobenzene-d5	68%		17-126%
321-60-8	2-Fluorobiphenyl	75%		23-124%
1718-51-0	Terphenyl-d14	84%		13-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.01	4.8	ug/l	J
	Unknown	4.16	4	ug/l	J
	Alkane	9.24	3.3	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	FB-1		
Lab Sample ID:	JE23960-3	**Date Sampled:**	11/20/25
Matrix:	AQ - Field Blank Water	**Date Received:**	11/21/25
Method:	SW846 8270E SW846 3510C	**Percent Solids:**	n/a
Project:	NJ Transit Linden Station Parking Lot, Linden, NJ		

ABN TCL List without all PAH

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Alkane	9.57	4.6	ug/l	J
	Alkane	9.90	9.6	ug/l	J
	Alkane	10.21	9.8	ug/l	J
	Alkane	10.51	12	ug/l	J
	Unknown	10.66	8.9	ug/l	J
	Alkane	10.80	9.4	ug/l	J
	Alkane	11.12	7.7	ug/l	J
	Alkane	11.26	5.7	ug/l	J
	Alkane	11.46	6.3	ug/l	J
	Alkane	11.46	3.7	ug/l	J
	Alkane	11.84	3.6	ug/l	J
	Total TIC, Semi-Volatile		93.4	ug/l	J

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range

J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

SGS North America Inc.

Report of Analysis

Client Sample ID: FB-1
Lab Sample ID: JE23960-3
Matrix: AQ - Field Blank Water
Method: SW846 8270E BY SIM SW846 3510C
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Date Sampled: 11/20/25
Date Received: 11/21/25
Percent Solids: n/a

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	CS9984.D	1	11/25/25 18:40	AC	11/25/25 09:00	OP69305A	ECS503
Run #2							

	Initial Volume	Final Volume
Run #1	250 ml	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
534-52-1	4,6-Dinitro-o-cresol	ND	0.40	0.28	ug/l	
87-86-5	Pentachlorophenol	ND	0.20	0.060	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.040	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.040	0.024	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.040	0.024	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.080	0.040	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.080	0.040	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.014	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.25	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.080	0.040	ug/l	
123-91-1	1,4-Dioxane	ND	0.30	0.20	ug/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
367-12-4	2-Fluorophenol	48%		15-110%
4165-62-2	Phenol-d5	36%		12-110%
118-79-6	2,4,6-Tribromophenol	69%		32-143%
4165-60-0	Nitrobenzene-d5	61%		29-124%
321-60-8	2-Fluorobiphenyl	56%		23-122%
1718-51-0	Terphenyl-d14	73%		22-130%

ND = Not detected MDL = Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody
- Sample Tracking Chronicle
- Internal Chain of Custody

SGS

CHAIN OF CUSTODY

SGS North America Inc. - Dayton
2235 Route 130, Dayton, NJ 08810
TEL. 732-329-0200
www.sgs.com/ehsusa

Page 1 of 1

G.U.J FB

FED-EX Tracking #	Bottle Order Control # PREM-TAL-111725-125
SGS Quote #	SGS Job # JE23960

Client / Reporting Information

Company Name: Matrix New World Engineering
Street Address: 26 Columbia Turnpike
City: Florham Park State: NJ Zip: 07932
Project Contact: Chris Nelson E-mail: cnelson@mnwe.com
Phone #: 9732953089
Sampler(s) Name(s): Sofia Terrezza Phone #: 9087238435

Project Information

Project Name: NJ Transit Linden Station Parking Lot
Street: 101 W. Elizabeth Ave.
City: Linden State: NJ
Project #: 25-0406
Client Purchase Order #:
Project Manager: Chris Nelson

Billing Information (if different from Report to)
Company Name:
Street Address:
City: State: Zip:
Attention: cnelson@mnwe.com

Analysis Requested: TCL SVOC+15 (Low-Level SIM)

Matrix Codes: DW - Drinking Water; GW - Ground Water; WW - Water; SW - Surface Water; SO - Soil; SL - Sludge; SED - Sediment; OI - Oil; LIQ - Other Liquid; AIR - Air; SOL - Other Solid; WP - Wipe; FB - Field Blank; EB-Equipment Blank; RB - Rinse Blank; TB - Trip Blank

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Date	Time	Sampled by	Grab (G) Comp (C)	Source Chlorinated (Y/N)	Matrix	# of bottles	HCl	NaOH	HNO_3	H_2SO_4	NONE	DI Water	MEOH	ENCORE	TCL SVOC+15 (Low-Level SIM)	LAB USE ONLY
1	MW-1		11/20/25	1010	ST	G		GW	2					2				X	1Z4
2	MW-2		↓	1100	↓	↓		↓	1					↓				X	
3	FB-1		↓	1120	↓	↓		FB	↓					↓				X	

Initial Assessment NJ 1Z3
Label Verification

Turn Around Time (Business Days) — Approved By (SGS PM) / Date:

- ☐ 10 Business Days
- ☒ 5 Business Days Standard
- ☐ 3 Business Days*
- ☐ 2 Business Days*
- ☐ 1 Business Day*
- ☐ Other

All data available via SGS Engage
* Approval needed for 1-3 BD TAT

Deliverable

- ☐ Commercial "A" (Level 1)
- ☐ Commercial "B" (Level 2)
- ☒ NJ Reduced (Level 3)
- ☐ Full Tier I (Level 4)
- ☐ Commercial "C"
- ☐ NJ DKQP
- ☐ NJGW Criteria 2025 *new*
- ☐ NYASP Category A
- ☐ NYASP Category B
- ☐ MA MCP Criteria
- ☐ CT RCP Criteria
- ☐ State Forms
- ☐ EDD Format

Commercial "A" = Results only; Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

2x250ml NP 8270 EX

Comments / Special Instructions

FB-1: matrix is Field Blank
MW-1, MW-2: matrix is groundwater
all samples analyzed for TCL SVOC+15 (Low-Level SIM)

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished By:	Date / Time:	Received By:	Relinquished By:	Date / Time:	Received By:
1 [signature]	11/21/25 10:13	1 [signature]	2 [signature]	11/21/25 1754	2 [signature]
3		3	4		4
5		5	Custody Seal #	☐ Intact ☐ Not intact ☐ Absent	Therm ID: FR50 On Ice ☑ Cooler Temp. °C 3.6 °C

See Sample Receipt Summary

SGS COURIER

Ref No: G140222999

JE23960: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: JE23960 **Client:** MATRIX NEW WORLD ENGINEERING **Project:** NJ TRANSIT LINDEN STATION PARKING

Date / Time Received: 11/21/2025 5:54:00 PM **Delivery Method:** SGS COURIER **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (3.6);

Cooler Temps (Corrected) °C: Cooler 1: (3.7);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☑		☐	☐

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

Internal Sample Tracking Chronicle

Matrix New World Engineering, Inc.

Job No: JE23960

NJ Transit Linden Station Parking Lot, Linden, NJ
Project No: 25-0406

Sample Number	Method	Analyzed	By	Prepped	By	Test Codes
JE23960-1 MW-1	Collected: 20-NOV-25 10:10 By: ST		Received: 21-NOV-25 By: AR			
JE23960-1	SW846 8270E BY SIM	25-NOV-25 21:48	AC	25-NOV-25	KB	ABLV8270SIMNJ
JE23960-1	SW846 8270E	26-NOV-25 23:53	TL	24-NOV-25	DS	ABLV8270NJTCL20+
JE23960-2 MW-2	Collected: 20-NOV-25 11:00 By: ST		Received: 21-NOV-25 By: AR			
JE23960-2	SW846 8270E BY SIM	25-NOV-25 22:12	AC	25-NOV-25	KB	ABLV8270SIMNJ
JE23960-2	SW846 8270E	27-NOV-25 00:13	TL	24-NOV-25	DS	ABLV8270NJTCL20+
JE23960-3 FB-1	Collected: 20-NOV-25 11:20 By: ST		Received: 21-NOV-25 By: AR			
JE23960-3	SW846 8270E BY SIM	25-NOV-25 18:40	AC	25-NOV-25	KB	ABLV8270SIMNJ
JE23960-3	SW846 8270E	25-NOV-25 18:49	TL	24-NOV-25	DS	ABLV8270NJTCL20+

SGS Internal Chain of Custody

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ
Received: 11/21/25

Sample.Bottle Number	Transfer FROM	Transfer TO	Date/Time	Reason
JE23960-1.1	Aleandi Rodriguez	Secured Storage	11/22/25 17:00	Return to Storage
JE23960-1.1	Secured Storage	Aakash Mahesh	11/24/25 08:49	Retrieve from Storage
JE23960-1.1	Aakash Mahesh		12/03/25 15:47	Depleted
JE23960-1.1.1	Aakash Mahesh	Organics Prep	11/24/25 08:51	Extract from JE23960-1.1
JE23960-1.2	Aleandi Rodriguez	Secured Storage	11/22/25 17:00	Return to Storage
JE23960-1.2	Secured Storage	Ziyhon Parham	11/24/25 23:00	Retrieve from Storage
JE23960-1.2	Ziyhon Parham	Secured Staging Area	11/24/25 23:00	Return to Storage
JE23960-1.2	Secured Staging Area	Kevin Brefo	11/25/25 07:22	Retrieve from Storage
JE23960-1.2	Kevin Brefo		12/03/25 16:59	Depleted
JE23960-1.2.1	Kevin Brefo	Organics Prep	11/25/25 07:39	Extract from JE23960-1.2
JE23960-2.1	Aleandi Rodriguez	Secured Storage	11/22/25 17:00	Return to Storage
JE23960-2.1	Secured Storage	Ziyhon Parham	11/24/25 23:00	Retrieve from Storage
JE23960-2.1	Ziyhon Parham	Secured Staging Area	11/24/25 23:00	Return to Storage
JE23960-2.1	Secured Staging Area	Kevin Brefo	11/25/25 07:22	Retrieve from Storage
JE23960-2.1	Kevin Brefo		12/03/25 16:59	Depleted
JE23960-2.1.1	Kevin Brefo	Organics Prep	11/25/25 07:39	Extract from JE23960-2.1
JE23960-2.2	Aleandi Rodriguez	Secured Storage	11/22/25 17:00	Return to Storage
JE23960-2.2	Secured Storage	Aakash Mahesh	11/24/25 08:49	Retrieve from Storage
JE23960-2.2	Aakash Mahesh		12/03/25 15:47	Depleted
JE23960-2.2.1	Aakash Mahesh	Organics Prep	11/24/25 08:51	Extract from JE23960-2.2
JE23960-3.1	Aleandi Rodriguez	Secured Storage	11/22/25 17:00	Return to Storage
JE23960-3.1	Secured Storage	Ziyhon Parham	11/24/25 23:00	Retrieve from Storage
JE23960-3.1	Ziyhon Parham	Secured Staging Area	11/24/25 23:00	Return to Storage
JE23960-3.1	Secured Staging Area	Kevin Brefo	11/25/25 07:22	Retrieve from Storage
JE23960-3.1	Kevin Brefo		12/03/25 16:59	Depleted
JE23960-3.1.1	Kevin Brefo	Organics Prep	11/25/25 07:39	Extract from JE23960-3.1
JE23960-3.2	Aleandi Rodriguez	Secured Storage	11/22/25 17:00	Return to Storage
JE23960-3.2	Secured Storage	Aakash Mahesh	11/24/25 08:49	Retrieve from Storage
JE23960-3.2	Aakash Mahesh		12/03/25 15:47	Depleted
JE23960-3.2.1	Aakash Mahesh	Organics Prep	11/24/25 08:51	Extract from JE23960-3.2

MS Semi-volatiles

6

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries
- Instrument Performance Checks (DFTPP)
- Internal Standard Area Summaries
- Surrogate Recovery Summaries
- Initial and Continuing Calibration Summaries
- Run Sequence Reports

Method Blank Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69240-MB1	5P106532.D	1	11/25/25	TL	11/24/25	OP69240	E5P5039

The QC reported here applies to the following samples: **Method:** SW846 8270E

JE23960-1, JE23960-2, JE23960-3

CAS No.	Compound	Result	RL	MDL	Units	Q
95-57-8	2-Chlorophenol	ND	4.0	0.37	ug/l	
59-50-7	4-Chloro-3-methyl phenol	ND	4.0	0.53	ug/l	
120-83-2	2,4-Dichlorophenol	ND	2.0	0.52	ug/l	
105-67-9	2,4-Dimethylphenol	ND	4.0	0.67	ug/l	
51-28-5	2,4-Dinitrophenol	ND	4.0	1.9	ug/l	
95-48-7	2-Methylphenol	ND	2.0	0.47	ug/l	
	3&4-Methylphenol	ND	2.0	1.5	ug/l	
88-75-5	2-Nitrophenol	ND	4.0	0.40	ug/l	
100-02-7	4-Nitrophenol	ND	8.0	0.45	ug/l	
108-95-2	Phenol	ND	2.0	0.26	ug/l	
58-90-2	2,3,4,6-Tetrachlorophenol	ND	4.0	0.64	ug/l	
95-95-4	2,4,5-Trichlorophenol	ND	4.0	0.49	ug/l	
88-06-2	2,4,6-Trichlorophenol	ND	4.0	0.59	ug/l	
83-32-9	Acenaphthene	ND	1.0	0.61	ug/l	
208-96-8	Acenaphthylene	ND	1.0	0.42	ug/l	
98-86-2	Acetophenone	ND	2.0	0.52	ug/l	
120-12-7	Anthracene	ND	1.0	0.56	ug/l	
1912-24-9	Atrazine	ND	2.0	0.72	ug/l	
100-52-7	Benzaldehyde	ND	4.0	0.44	ug/l	
191-24-2	Benzo(g,h,i)perylene	ND	1.0	0.64	ug/l	
101-55-3	4-Bromophenyl phenyl ether	ND	2.0	0.55	ug/l	
85-68-7	Butyl benzyl phthalate	ND	2.0	0.86	ug/l	
92-52-4	1,1'-Biphenyl	ND	1.0	0.59	ug/l	
91-58-7	2-Chloronaphthalene	ND	2.0	0.43	ug/l	
106-47-8	4-Chloroaniline	ND	4.0	0.53	ug/l	
86-74-8	Carbazole	ND	1.0	0.58	ug/l	
105-60-2	Caprolactam	ND	2.0	0.35	ug/l	
218-01-9	Chrysene	ND	1.0	0.52	ug/l	
111-91-1	bis(2-Chloroethoxy)methane	ND	2.0	0.46	ug/l	
111-44-4	bis(2-Chloroethyl)ether	ND	2.0	0.43	ug/l	
108-60-1	2,2'-Oxybis(1-chloropropane)	ND	2.0	0.50	ug/l	
7005-72-3	4-Chlorophenyl phenyl ether	ND	2.0	0.60	ug/l	
121-14-2	2,4-Dinitrotoluene	ND	1.0	0.55	ug/l	
606-20-2	2,6-Dinitrotoluene	ND	1.0	0.56	ug/l	
91-94-1	3,3'-Dichlorobenzidine	ND	2.0	1.1	ug/l	
132-64-9	Dibenzofuran	ND	4.0	0.73	ug/l	

Method Blank Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69240-MB1	5P106532.D	1	11/25/25	TL	11/24/25	OP69240	E5P5039

The QC reported here applies to the following samples: **Method:** SW846 8270E

JE23960-1, JE23960-2, JE23960-3

CAS No.	Compound	Result	RL	MDL	Units	Q
84-74-2	Di-n-butyl phthalate	ND	2.0	0.53	ug/l	
117-84-0	Di-n-octyl phthalate	ND	2.0	1.6	ug/l	
84-66-2	Diethyl phthalate	ND	2.0	0.58	ug/l	
131-11-3	Dimethyl phthalate	ND	2.0	0.55	ug/l	
117-81-7	bis(2-Ethylhexyl)phthalate	ND	2.0	1.3	ug/l	
206-44-0	Fluoranthene	ND	1.0	0.58	ug/l	
86-73-7	Fluorene	ND	1.0	0.59	ug/l	
77-47-4	Hexachlorocyclopentadiene	ND	8.0	0.98	ug/l	
67-72-1	Hexachloroethane	ND	2.0	0.55	ug/l	
78-59-1	Isophorone	ND	2.0	0.39	ug/l	
91-57-6	2-Methylnaphthalene	ND	1.0	0.64	ug/l	
88-74-4	2-Nitroaniline	ND	4.0	0.62	ug/l	
99-09-2	3-Nitroaniline	ND	4.0	0.64	ug/l	
100-01-6	4-Nitroaniline	ND	4.0	0.75	ug/l	
91-20-3	Naphthalene	ND	1.0	0.44	ug/l	
98-95-3	Nitrobenzene	ND	2.0	0.42	ug/l	
621-64-7	N-Nitroso-di-n-propylamine	ND	2.0	0.65	ug/l	
86-30-6	N-Nitrosodiphenylamine	ND	4.0	0.42	ug/l	
85-01-8	Phenanthrene	ND	1.0	0.48	ug/l	
129-00-0	Pyrene	ND	1.0	0.50	ug/l	
95-94-3	1,2,4,5-Tetrachlorobenzene	ND	2.0	0.48	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	36%	10-69%
4165-62-2	Phenol-d5	25%	10-47%
118-79-6	2,4,6-Tribromophenol	72%	17-144%
4165-60-0	Nitrobenzene-d5	61%	17-126%
321-60-8	2-Fluorobiphenyl	66%	23-124%
1718-51-0	Terphenyl-d14	73%	13-135%

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	2.64	3.7	ug/l	J

Method Blank Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69240-MB1	5P106532.D	1	11/25/25	TL	11/24/25	OP69240	E5P5039

The QC reported here applies to the following samples: **Method:**

JE23960-1, JE23960-2, JE23960-3

CAS No.	Tentatively Identified Compounds	R.T.	Est. Conc.	Units	Q
	Unknown	4.01	4	ug/l	J
	Unknown	4.16	3.4	ug/l	J
57-11-4	Octadecanoic acid	8.76	9.1	ug/l	JN
	Alkane	9.24	5.9	ug/l	J
	Alkane	9.57	12	ug/l	J
	Alkane	9.89	19	ug/l	J
	Alkane	10.21	22	ug/l	J
	Alkane	10.51	20	ug/l	J
	Unknown	10.66	8.3	ug/l	J
	Alkane	10.80	16	ug/l	J
	Unknown	10.87	5.3	ug/l	J
	Alkane	11.12	13	ug/l	J
	Alkane	11.46	8.5	ug/l	J
	Alkane	11.84	5.2	ug/l	J
	Total TIC, Semi-Volatile		155.4	ug/l	J

Method Blank Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69305A-MB1	CS9983.D	1	11/25/25	AC	11/25/25	OP69305A	ECS503

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE23960-1, JE23960-2, JE23960-3

CAS No.	Compound	Result	RL	MDL	Units	Q
534-52-1	4,6-Dinitro-o-cresol	ND	0.40	0.28	ug/l	
87-86-5	Pentachlorophenol	ND	0.20	0.060	ug/l	
56-55-3	Benzo(a)anthracene	ND	0.040	0.024	ug/l	
50-32-8	Benzo(a)pyrene	ND	0.040	0.024	ug/l	
205-99-2	Benzo(b)fluoranthene	ND	0.040	0.024	ug/l	
207-08-9	Benzo(k)fluoranthene	ND	0.080	0.040	ug/l	
53-70-3	Dibenzo(a,h)anthracene	ND	0.080	0.040	ug/l	
118-74-1	Hexachlorobenzene	ND	0.020	0.014	ug/l	
87-68-3	Hexachlorobutadiene	ND	1.0	0.25	ug/l	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	0.080	0.040	ug/l	
123-91-1	1,4-Dioxane	ND	0.30	0.20	ug/l	

CAS No.	Surrogate Recoveries		Limits
367-12-4	2-Fluorophenol	42%	15-110%
4165-62-2	Phenol-d5	30%	12-110%
118-79-6	2,4,6-Tribromophenol	63%	32-143%
4165-60-0	Nitrobenzene-d5	59%	29-124%
321-60-8	2-Fluorobiphenyl	53%	23-122%
1718-51-0	Terphenyl-d14	61%	22-130%

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69240-BS1	5P106538.D	1	11/25/25	TL	11/24/25	OP69240	E5P5039
OP69240-BSD	5P106539.D	1	11/25/25	TL	11/24/25	OP69240	E5P5039

The QC reported here applies to the following samples: **Method:** SW846 8270E

JE23960-1, JE23960-2, JE23960-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
95-57-8	2-Chlorophenol	40	24.5	61	25.3	63	3	18-114/63
59-50-7	4-Chloro-3-methyl phenol	40	28.9	72	31.6	79	9	31-128/48
120-83-2	2,4-Dichlorophenol	40	27.8	70	30.5	76	9	21-130/59
105-67-9	2,4-Dimethylphenol	40	27.0	68	29.7	74	10	18-124/52
51-28-5	2,4-Dinitrophenol	80	54.2	68	64.3	80	17	13-154/69
95-48-7	2-Methylphenol	40	25.7	64	28.6	72	11	14-109/55
	3&4-Methylphenol	80	47.6	60	49.4	62	4	10-119/55
88-75-5	2-Nitrophenol	40	27.7	69	29.8	75	7	22-128/63
100-02-7	4-Nitrophenol	40	21.3	53	21.3	53	0	10-104/70
108-95-2	Phenol	40	15.5	39	17.0	43	9	10-68/60
58-90-2	2,3,4,6-Tetrachlorophenol	40	29.9	75	31.1	78	4	31-141/60
95-95-4	2,4,5-Trichlorophenol	40	28.9	72	30.9	77	7	29-134/57
88-06-2	2,4,6-Trichlorophenol	40	28.8	72	30.0	75	4	28-134/61
83-32-9	Acenaphthene	40	24.5	61	25.8	65	5	33-120/45
208-96-8	Acenaphthylene	40	25.2	63	26.0	65	3	15-119/46
98-86-2	Acetophenone	40	25.5	64	25.7	64	1	25-124/50
120-12-7	Anthracene	40	30.3	76	26.3	66	14	36-125/40
1912-24-9	Atrazine	40	31.8	80	30.8	77	3	28-159/46
100-52-7	Benzaldehyde	40	26.3	66	26.3	66	0	18-127/49
191-24-2	Benzo(g,h,i)perylene	40	30.8	77	32.1	80	4	32-140/47
101-55-3	4-Bromophenyl phenyl ether	40	30.0	75	31.4	79	5	31-131/43
85-68-7	Butyl benzyl phthalate	40	34.7	87	36.9	92	6	39-150/42
92-52-4	1,1'-Biphenyl	40	23.4	59	24.1	60	3	28-120/47
91-58-7	2-Chloronaphthalene	40	22.7	57	23.7	59	4	26-117/47
106-47-8	4-Chloroaniline	40	24.1	60	27.0	68	11	13-118/78
86-74-8	Carbazole	40	31.7	79	32.6	82	3	37-126/41
105-60-2	Caprolactam	40	12.8	32	14.9	37	15	10-78/52
218-01-9	Chrysene	40	30.4	76	31.9	80	5	37-126/41
111-91-1	bis(2-Chloroethoxy)methane	40	25.6	64	29.2	73	13	27-120/48
111-44-4	bis(2-Chloroethyl)ether	40	25.2	63	26.4	66	5	22-116/56
108-60-1	2,2'-Oxybis(1-chloropropane)	40	23.9	60	25.4	64	6	12-131/54
7005-72-3	4-Chlorophenyl phenyl ether	40	26.1	65	28.0	70	7	33-125/44
121-14-2	2,4-Dinitrotoluene	40	30.0	75	31.9	80	6	43-135/42
606-20-2	2,6-Dinitrotoluene	40	30.3	76	32.5	81	7	40-135/45
91-94-1	3,3'-Dichlorobenzidine	40	27.7	69	27.6	69	0	17-127/60
132-64-9	Dibenzofuran	40	26.2	66	27.1	68	3	35-122/43

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69240-BS1	5P106538.D	1	11/25/25	TL	11/24/25	OP69240	E5P5039
OP69240-BSD	5P106539.D	1	11/25/25	TL	11/24/25	OP69240	E5P5039

The QC reported here applies to the following samples: **Method:** SW846 8270E

JE23960-1, JE23960-2, JE23960-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
84-74-2	Di-n-butyl phthalate	40	31.9	80	31.9	80	0	36-142/46
117-84-0	Di-n-octyl phthalate	40	33.5	84	34.2	86	2	36-156/41
84-66-2	Diethyl phthalate	40	29.0	73	30.6	77	5	41-137/45
131-11-3	Dimethyl phthalate	40	28.8	72	30.3	76	5	39-130/44
117-81-7	bis(2-Ethylhexyl)phthalate	40	33.9	85	35.2	88	4	39-145/40
206-44-0	Fluoranthene	40	31.2	78	32.1	80	3	39-128/40
86-73-7	Fluorene	40	26.6	67	28.6	72	7	38-123/44
77-47-4	Hexachlorocyclopentadiene	80	37.9	47	36.9	46	3	10-125/56
67-72-1	Hexachloroethane	40	17.5	44	18.6	47	6	10-109/67
78-59-1	Isophorone	40	27.3	68	29.6	74	8	27-124/46
91-57-6	2-Methylnaphthalene	40	22.0	55	23.9	60	8	25-118/50
88-74-4	2-Nitroaniline	40	32.3	81	32.1	80	1	31-144/45
99-09-2	3-Nitroaniline	40	29.1	73	31.7	79	9	31-123/54
100-01-6	4-Nitroaniline	40	31.2	78	32.5	81	4	29-133/52
91-20-3	Naphthalene	40	21.5	54	22.9	57	6	24-113/52
98-95-3	Nitrobenzene	40	24.6	62	27.0	68	9	24-120/51
621-64-7	N-Nitroso-di-n-propylamine	40	29.3	73	28.5	71	3	26-125/49
86-30-6	N-Nitrosodiphenylamine	40	33.9	85	33.1	83	2	32-123/46
85-01-8	Phenanthrene	40	29.8	75	30.0	75	1	36-122/40
129-00-0	Pyrene	40	31.3	78	34.0	85	8	39-137/41
95-94-3	1,2,4,5-Tetrachlorobenzene	40	21.8	55	21.9	55	0	21-119/50

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	54%	58%	10-69%
4165-62-2	Phenol-d5	39%	42%	10-47%
118-79-6	2,4,6-Tribromophenol	84%	81%	17-144%
4165-60-0	Nitrobenzene-d5	68%	72%	17-126%
321-60-8	2-Fluorobiphenyl	70%	74%	23-124%
1718-51-0	Terphenyl-d14	83%	80%	13-135%

* = Outside of Control Limits.

Blank Spike/Blank Spike Duplicate Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP69305A-BS12	CS9985.D	1	11/25/25	AC	11/25/25	OP69305A	ECS503
OP69305A-BSD12	CS9986.D	1	11/25/25	AC	11/25/25	OP69305A	ECS503

The QC reported here applies to the following samples: **Method:** SW846 8270E BY SIM

JE23960-1, JE23960-2, JE23960-3

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
534-52-1	4,6-Dinitro-o-cresol	4	2.40	60	2.69	67	11	10-177/42
87-86-5	Pentachlorophenol	4	3.03	76	3.53	88	15	10-169/37
56-55-3	Benzo(a)anthracene	0.8	0.582	73	0.673	84	15	38-132/31
50-32-8	Benzo(a)pyrene	0.8	0.430	54	0.503	63	16	31-110/37
205-99-2	Benzo(b)fluoranthene	0.8	0.492	62	0.617	77	23	31-113/37
207-08-9	Benzo(k)fluoranthene	0.8	0.478	60	0.519	65	8	31-119/43
53-70-3	Dibenzo(a,h)anthracene	0.8	0.395	49	0.472	59	18	20-112/50
118-74-1	Hexachlorobenzene	0.8	0.367	46	0.431	54	16	33-122/31
87-68-3	Hexachlorobutadiene	0.8	0.325	41	0.350	44	7	17-115/39
193-39-5	Indeno(1,2,3-cd)pyrene	0.8	0.386	48	0.452	57	16	18-113/49
123-91-1	1,4-Dioxane	0.8	0.374	47	0.394	49	5	10-110/40

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
367-12-4	2-Fluorophenol	43%	46%	15-110%
4165-62-2	Phenol-d5	30%	33%	12-110%
118-79-6	2,4,6-Tribromophenol	71%	73%	32-143%
4165-60-0	Nitrobenzene-d5	62%	61%	29-124%
321-60-8	2-Fluorobiphenyl	56%	55%	23-122%
1718-51-0	Terphenyl-d14	75%	78%	22-130%

* = Outside of Control Limits.

Instrument Performance Check (DFTPP)

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample: E3P5394-DFTPP
Lab File ID: 3P113979.D
Instrument ID: GCMS3P
Injection Date: 10/01/25
Injection Time: 12:41

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	21213	48.1		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	25092	56.9		Pass
70	Less than 2.0% of mass 69	158	0.36	(0.63) [a]	Pass
127	40.0 - 60.0% of mass 198	24788	56.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	44075	100.0		Pass
199	5.0 - 9.0% of mass 198	2918	6.62		Pass
275	10.0 - 30.0% of mass 198	10151	23.0		Pass
365	1.0 - 100.0% of mass 198	1024	2.32		Pass
441	Present, but less than mass 443	4545	10.3	(91.2) [b]	Pass
442	40.0 - 100.0% of mass 198	26993	61.2		Pass
443	17.0 - 23.0% of mass 442	4984	11.3	(18.5) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3P5394-IC5394	3P113980.D	10/01/25	12:52	00:11	Initial cal 0.2
E3P5394-IC5394	3P113981.D	10/01/25	13:11	00:30	Initial cal 0.4
E3P5394-IC5394	3P113982.D	10/01/25	13:31	00:50	Initial cal 1
E3P5394-IC5394	3P113983.D	10/01/25	13:51	01:10	Initial cal 2
E3P5394-IC5394	3P113984.D	10/01/25	14:11	01:30	Initial cal 5
E3P5394-ICC5394	3P113985.D	10/01/25	14:31	01:50	Initial cal 10
E3P5394-IC5394	3P113986.D	10/01/25	14:51	02:10	Initial cal 16
E3P5394-IC5394	3P113987.D	10/01/25	15:10	02:29	Initial cal 20
E3P5394-IC5394	3P113988.D	10/01/25	15:30	02:49	Initial cal 0.2
E3P5394-IC5394	3P113989.D	10/01/25	15:50	03:09	Initial cal 0.4
E3P5394-IC5394	3P113990.D	10/01/25	16:10	03:29	Initial cal 1
E3P5394-IC5394	3P113991.D	10/01/25	16:30	03:49	Initial cal 2
E3P5394-IC5394	3P113992.D	10/01/25	16:50	04:09	Initial cal 5
E3P5394-IC5394	3P113993.D	10/01/25	17:10	04:29	Initial cal 10
E3P5394-IC5394	3P113994.D	10/01/25	17:30	04:49	Initial cal 16
E3P5394-IC5394	3P113995.D	10/01/25	17:50	05:09	Initial cal 20
E3P5394-ICV5394	3P113996.D	10/01/25	18:09	05:28	Initial cal verification 10
E3P5394-ICV5394	3P113997.D	10/01/25	18:29	05:48	Initial cal verification 10

Instrument Performance Check (DFTPP)

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample: E3P5401-DFTPP
Lab File ID: 3P114378.D
Instrument ID: GCMS3P
Injection Date: 10/10/25
Injection Time: 09:38

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	27526	40.2		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	33458	48.8		Pass
70	Less than 2.0% of mass 69	146	0.21	(0.44) [a]	Pass
127	40.0 - 60.0% of mass 198	34655	50.6		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	68520	100.0		Pass
199	5.0 - 9.0% of mass 198	4517	6.59		Pass
275	10.0 - 30.0% of mass 198	16638	24.3		Pass
365	1.0 - 100.0% of mass 198	2249	3.28		Pass
441	Present, but less than mass 443	8030	11.7	(85.8) [b]	Pass
442	40.0 - 100.0% of mass 198	48997	71.5		Pass
443	17.0 - 23.0% of mass 442	9363	13.7	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E3P5401-IC5401	3P114379.D	10/10/25	09:48	00:10	Initial cal 0.2
E3P5401-IC5401	3P114380.D	10/10/25	10:08	00:30	Initial cal 0.4
E3P5401-IC5401	3P114381.D	10/10/25	10:27	00:49	Initial cal 1
E3P5401-IC5401	3P114382.D	10/10/25	10:47	01:09	Initial cal 2
E3P5401-IC5401	3P114383.D	10/10/25	11:07	01:29	Initial cal 5
E3P5401-ICC5401	3P114384.D	10/10/25	11:26	01:48	Initial cal 10
E3P5401-IC5401	3P114385.D	10/10/25	11:46	02:08	Initial cal 16
E3P5401-IC5401	3P114386.D	10/10/25	12:05	02:27	Initial cal 20
E3P5401-ICV5401	3P114387.D	10/10/25	12:25	02:47	Initial cal verification 10
E3P5402-CC5401	3P114389.D	10/10/25	14:08	04:30	Continuing cal 10
E3P5402-CC5394	3P114390A.D	10/10/25	14:31	04:53	Continuing cal 10
ZZZZZZ	3P114393.D	10/10/25	16:02	06:24	(unrelated sample)
OP67928-MB1	3P114394.D	10/10/25	16:22	06:44	Method Blank
OP67928-BS1	3P114395.D	10/10/25	16:42	07:04	Blank Spike
OP67928-BSD	3P114396.D	10/10/25	17:01	07:23	Blank Spike Duplicate
OP67931-BS1	3P114397.D	10/10/25	17:21	07:43	Blank Spike
ZZZZZZ	3P114398.D	10/10/25	17:40	08:02	(unrelated sample)
ZZZZZZ	3P114399.D	10/10/25	18:00	08:22	(unrelated sample)
ZZZZZZ	3P114400.D	10/10/25	18:20	08:42	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample:	E3P5401-DFTPP	**Injection Date:**	10/10/25
Lab File ID:	3P114378.D	**Injection Time:**	09:38
Instrument ID:	GCMS3P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	3P114401.D	10/10/25	18:39	09:01	(unrelated sample)
ZZZZZZ	3P114402.D	10/10/25	19:21	09:43	(unrelated sample)
ZZZZZZ	3P114403.D	10/10/25	19:40	10:02	(unrelated sample)
ZZZZZZ	3P114404.D	10/10/25	20:00	10:22	(unrelated sample)
ZZZZZZ	3P114405.D	10/10/25	20:20	10:42	(unrelated sample)
ZZZZZZ	3P114406.D	10/10/25	20:39	11:01	(unrelated sample)
ZZZZZZ	3P114407.D	10/10/25	20:59	11:21	(unrelated sample)
JE20390-2	3P114408.D	10/10/25	21:19	11:41	(used for QC only; not part of job JE23960)

Instrument Performance Check (DFTPP)

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample: E5P5020-DFTPP
Lab File ID: 5P105989.D
Instrument ID: GCMS5P
Injection Date: 11/05/25
Injection Time: 18:28

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	11761	33.6		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	13581	38.8		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	15726	44.9		Pass
197	Less than 1.0% of mass 198	82	0.23		Pass
198	Base peak, 100% relative abundance	35024	100.0		Pass
199	5.0 - 9.0% of mass 198	2248	6.42		Pass
275	10.0 - 30.0% of mass 198	8553	24.4		Pass
365	1.0 - 100.0% of mass 198	978	2.79		Pass
441	Present, but less than mass 443	4675	13.3	(84.4) [b]	Pass
442	40.0 - 100.0% of mass 198	28073	80.2		Pass
443	17.0 - 23.0% of mass 442	5536	15.8	(19.7) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P5020-IC5020	5P105990.D	11/05/25	18:41	00:13	Initial cal 0.2
E5P5020-IC5020	5P105991.D	11/05/25	19:03	00:35	Initial cal 0.4
E5P5020-IC5020	5P105992.D	11/05/25	19:24	00:56	Initial cal 1
E5P5020-IC5020	5P105993.D	11/05/25	19:46	01:18	Initial cal 2
E5P5020-IC5020	5P105994.D	11/05/25	20:08	01:40	Initial cal 5
E5P5020-ICC5020	5P105995.D	11/05/25	20:30	02:02	Initial cal 10
E5P5020-IC5020	5P105996.D	11/05/25	20:51	02:23	Initial cal 16
E5P5020-IC5020	5P105997.D	11/05/25	21:13	02:45	Initial cal 20
E5P5020-IC5020	5P105998.D	11/05/25	21:34	03:06	Initial cal 0.2
E5P5020-IC5020	5P105999.D	11/05/25	21:56	03:28	Initial cal 0.4
E5P5020-IC5020	5P106000.D	11/05/25	22:18	03:50	Initial cal 1
E5P5020-IC5020	5P106001.D	11/05/25	22:39	04:11	Initial cal 2
E5P5020-IC5020	5P106002.D	11/05/25	23:01	04:33	Initial cal 5
E5P5020-IC5020	5P106003.D	11/05/25	23:22	04:54	Initial cal 10
E5P5020-IC5020	5P106004.D	11/05/25	23:44	05:16	Initial cal 16
E5P5020-IC5020	5P106005.D	11/06/25	00:06	05:38	Initial cal 20
E5P5020-ICV5020	5P106006.D	11/06/25	00:28	06:00	Initial cal verification 10
E5P5020-ICV5020	5P106007.D	11/06/25	00:49	06:21	Initial cal verification 10

Instrument Performance Check (DFTPP)

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample: E5P5038-DFTPP
Lab File ID: 5P106510.D
Instrument ID: GCMS5P
Injection Date: 11/24/25
Injection Time: 20:43

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	10331	32.3		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	12033	37.7		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	14451	45.2		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	31952	100.0		Pass
199	5.0 - 9.0% of mass 198	2252	7.05		Pass
275	10.0 - 30.0% of mass 198	7749	24.3		Pass
365	1.0 - 100.0% of mass 198	975	3.05		Pass
441	Present, but less than mass 443	4351	13.6	(86.5) [b]	Pass
442	40.0 - 100.0% of mass 198	26222	82.1		Pass
443	17.0 - 23.0% of mass 442	5032	15.7	(19.2) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P5038-IC5038	5P106514.D	11/24/25	23:01	02:18	Initial cal 0.2
E5P5038-IC5038	5P106515.D	11/24/25	23:23	02:40	Initial cal 0.4
E5P5038-IC5038	5P106516.D	11/24/25	23:45	03:02	Initial cal 1
E5P5038-IC5038	5P106517.D	11/25/25	00:07	03:24	Initial cal 2
E5P5038-IC5038	5P106518.D	11/25/25	00:29	03:46	Initial cal 5
E5P5038-ICC5038	5P106519.D	11/25/25	00:51	04:08	Initial cal 10
E5P5038-IC5038	5P106520.D	11/25/25	01:13	04:30	Initial cal 16
E5P5038-IC5038	5P106521.D	11/25/25	01:35	04:52	Initial cal 20
E5P5038-ICV5038	5P106522.D	11/25/25	01:57	05:14	Initial cal verification 10

Instrument Performance Check (DFTPP)

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample: E5P5039-DFTPP
Lab File ID: 5P106526.D
Instrument ID: GCMS5P
Injection Date: 11/25/25
Injection Time: 15:57

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	10785	30.9		Pass
68	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
69	Mass 69 relative abundance	13234	38.0		Pass
70	Less than 2.0% of mass 69	0	0.00	(0.00) [a]	Pass
127	40.0 - 60.0% of mass 198	15482	44.4		Pass
197	Less than 1.0% of mass 198	0	0.00		Pass
198	Base peak, 100% relative abundance	34872	100.0		Pass
199	5.0 - 9.0% of mass 198	2377	6.82		Pass
275	10.0 - 30.0% of mass 198	8620	24.7		Pass
365	1.0 - 100.0% of mass 198	1040	2.98		Pass
441	Present, but less than mass 443	4514	12.9	(82.9) [b]	Pass
442	40.0 - 100.0% of mass 198	27059	77.6		Pass
443	17.0 - 23.0% of mass 442	5445	15.6	(20.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
E5P5039-CC5038	5P106527.D	11/25/25	16:18	00:21	Continuing cal 10
E5P5039-CC5020	5P106528.D	11/25/25	16:40	00:43	Continuing cal 10
OP69218-MB1	5P106530.D	11/25/25	17:23	01:26	Method Blank
OP69218-MB2	5P106531.D	11/25/25	17:44	01:47	Method Blank
OP69240-MB1	5P106532.D	11/25/25	18:06	02:09	Method Blank
OP69240B-MB1	5P106532.D	11/25/25	18:06	02:09	Method Blank
ZZZZZZ	5P106533.D	11/25/25	18:28	02:31	(unrelated sample)
JE23960-3	5P106534.D	11/25/25	18:49	02:52	FB-1
OP69240-BS1	5P106538.D	11/25/25	20:16	04:19	Blank Spike
OP69240B-BS1	5P106538.D	11/25/25	20:16	04:19	Blank Spike
OP69240B-BSD	5P106539.D	11/25/25	20:37	04:40	Blank Spike Duplicate
OP69240-BSD	5P106539.D	11/25/25	20:37	04:40	Blank Spike Duplicate
OP69218-BS1	5P106540.D	11/25/25	20:59	05:02	Blank Spike
OP69218-BSD	5P106541.D	11/25/25	21:21	05:24	Blank Spike Duplicate
OP69218-BS2	5P106542.D	11/25/25	21:42	05:45	Blank Spike
OP69218-BSD2	5P106543.D	11/25/25	22:04	06:07	Blank Spike Duplicate
ZZZZZZ	5P106549.D	11/26/25	00:19	08:22	(unrelated sample)
ZZZZZZ	5P106550.D	11/26/25	00:42	08:45	(unrelated sample)
ZZZZZZ	5P106551.D	11/26/25	01:05	09:08	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample:	E5P5039-DFTPP	**Injection Date:**	11/25/25
Lab File ID:	5P106526.D	**Injection Time:**	15:57
Instrument ID:	GCMS5P		

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ZZZZZZ	5P106552.D	11/26/25	01:27	09:30	(unrelated sample)
ZZZZZZ	5P106553.D	11/26/25	01:50	09:53	(unrelated sample)
ZZZZZZ	5P106557.D	11/26/25	03:21	11:24	(unrelated sample)
ZZZZZZ	5P106558.D	11/26/25	03:44	11:47	(unrelated sample)

Instrument Performance Check (DFTPP)

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample: ECS491-DFTPP
Lab File ID: CS9636.D
Instrument ID: GCMSCS
Injection Date: 11/11/25
Injection Time: 14:08

m/e	Ion Abundance Criteria	Raw Abundance	% Relative Abundance		Pass/Fail
51	30.0 - 60.0% of mass 198	108683	53.4		Pass
68	Less than 2.0% of mass 69	1336	0.66	(1.48) [a]	Pass
69	Mass 69 relative abundance	90357	44.4		Pass
70	Less than 2.0% of mass 69	593	0.29	(0.66) [a]	Pass
127	40.0 - 60.0% of mass 198	113384	55.7		Pass
197	Less than 1.0% of mass 198	252	0.12		Pass
198	Base peak, 100% relative abundance	203712	100.0		Pass
199	5.0 - 9.0% of mass 198	13832	6.79		Pass
275	10.0 - 31.0% of mass 198	42877	21.0		Pass
365	1.0 - 100.0% of mass 198	4362	2.14		Pass
441	Present, but less than mass 443	22002	10.8	(80.4) [b]	Pass
442	40.0 - 100.0% of mass 198	143579	70.5		Pass
443	17.0 - 23.0% of mass 442	27368	13.4	(19.1) [c]	Pass

(a) Value is % of mass 69
(b) Value is % of mass 443
(c) Value is % of mass 442

This check applies to the following Samples, MS, MSD, Blanks, and Standards:

Lab Sample ID	Lab File ID	Date Analyzed	Time Analyzed	Hours Lapsed	Client Sample ID
ECS491-IC491	CS9640.D	11/11/25	17:01	02:53	Initial cal 0.002
ECS491-IC491	CS9641.D	11/11/25	17:26	03:18	Initial cal 0.004
ECS491-IC491	CS9642.D	11/11/25	17:50	03:42	Initial cal 0.01
ECS491-IC491	CS9643.D	11/11/25	18:14	04:06	Initial cal 0.02
ECS491-IC491	CS9644.D	11/11/25	18:38	04:30	Initial cal 0.04
ECS491-IC491	CS9645.D	11/11/25	19:02	04:54	Initial cal 0.1
ECS491-ICC491	CS9646.D	11/11/25	19:26	05:18	Initial cal 0.2
ECS491-IC491	CS9647.D	11/11/25	19:51	05:43	Initial cal 0.5
ECS491-IC491	CS9648.D	11/11/25	20:15	06:07	Initial cal 1
ECS491-IC491	CS9649.D	11/11/25	20:39	06:31	Initial cal 2
ECS491-ICV491	CS9650.D	11/11/25	21:03	06:55	Initial cal verification 0.2
ECS491-ICV491	CS9651.D	11/11/25	21:27	07:19	Initial cal verification 1

Internal Standard Area Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Check Std:	E3P5428-CC5401	**Injection Date:**	11/26/25
Lab File ID:	3P115110.D	**Injection Time:**	16:15
Instrument ID:	GCMS3P	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	61896	4.53	219175	5.34	113739	6.57	198604	7.93	179094	10.93	177140	12.53
Upper Limit [a]	123792	5.03	438350	5.84	227478	7.07	397208	8.43	358188	11.43	354280	13.03
Lower Limit [b]	30948	4.03	109588	4.84	56870	6.07	99302	7.43	89547	10.43	88570	12.03

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP69305-MB1	59492	4.53	224812	5.34	115394	6.57	217111	7.92	183926	10.92	176011	12.53
OP69305-BS1	58352	4.53	212362	5.34	108397	6.57	199264	7.93	179212	10.93	163121	12.53
OP69305-BSD	58259	4.53	218367	5.34	113545	6.57	213963	7.93	186328	10.93	173464	12.53
ZZZZZZ	59241	4.53	220064	5.34	114383	6.57	212796	7.92	185121	10.93	171204	12.53
ZZZZZZ	52870	4.53	203856	5.34	109266	6.57	190495	7.93	145879	10.93	147258	12.53
ZZZZZZ	61497	4.53	233025	5.34	124472	6.57	215603	7.93	169175	10.93	158628	12.53
ZZZZZZ	63269	4.53	237966	5.34	125173	6.57	203200	7.93	138614	10.93	222602	12.54
ZZZZZZ	64764	4.53	243143	5.34	132456	6.57	231332	7.93	178345	10.93	160093	12.53
ZZZZZZ	65992	4.53	246374	5.34	131673	6.57	220885	7.93	168077	10.93	174115	12.54
ZZZZZZ	65046	4.53	239768	5.34	123880	6.57	201765	7.93	139995	10.94	224512	12.55
ZZZZZZ	61136	4.53	225922	5.34	117060	6.57	209181	7.93	156695	10.93	137958	12.54
ZZZZZZ	58306	4.53	218187	5.34	113255	6.57	200616	7.93	154325	10.93	137322	12.54
ZZZZZZ	54759	4.53	210046	5.34	109711	6.57	196782	7.93	149670	10.93	130448	12.53
ZZZZZZ	56351	4.53	209847	5.34	106086	6.57	186642	7.93	141437	10.93	129551	12.54
ZZZZZZ	51014	4.53	182015	5.34	90631	6.58	160750	7.93	128500	10.93	145506	12.54
ZZZZZZ	57390	4.53	212669	5.34	107112	6.57	186689	7.93	145472	10.93	140748	12.54
ZZZZZZ	57350	4.53	213374	5.34	111716	6.57	202320	7.93	154651	10.93	134383	12.53
ZZZZZZ	55063	4.53	209139	5.34	109727	6.57	198144	7.93	149753	10.93	133517	12.54
ZZZZZZ	61233	4.53	234255	5.34	117646	6.57	210784	7.93	164118	10.92	146945	12.53
JE23960-1	56502	4.53	210638	5.34	106458	6.57	189555	7.93	137952	10.93	136469	12.54
JE23960-2	56696	4.53	217522	5.34	111211	6.57	200358	7.93	153342	10.93	133639	12.53
ZZZZZZ	58672	4.53	219034	5.34	115473	6.57	208477	7.93	165975	10.93	145491	12.53

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-d10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Check Std:	E5P5039-CC5038	**Injection Date:**	11/25/25
Lab File ID:	5P106527.D	**Injection Time:**	16:18
Instrument ID:	GCMS5P	**Method:**	SW846 8270E

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
Check Std	50541	4.51	186584	5.23	101617	6.36	183190	7.55	165077	10.02	175942	11.41
Upper Limit [a]	101082	5.01	373168	5.73	203234	6.86	366380	8.05	330154	10.52	351884	11.91
Lower Limit [b]	25271	4.01	93292	4.73	50809	5.86	91595	7.05	82539	9.52	87971	10.91

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT	IS 5 AREA	RT	IS 6 AREA	RT
OP69218-MB1	65122	4.51	218332	5.23	140291	6.36	254502	7.54	201156	10.02	198382	11.40
OP69218-MB2	60635	4.51	232922	5.23	130987	6.36	224341	7.54	191257	10.02	190389	11.40
OP69240-MB1	55248	4.51	210180	5.23	118838	6.36	205435	7.55	167938	10.02	168452	11.40
OP69240B-MB1	55248	4.51	210180	5.23	118838	6.36	205435	7.55	167938	10.02	168452	11.40
ZZZZZZ	54169	4.51	201753	5.23	110713	6.36	191556	7.54	153813	10.02	168895	11.40
JE23960-3	53613	4.51	203493	5.23	113971	6.36	205574	7.55	165855	10.02	163675	11.40
OP69240-BS1	50647	4.51	191635	5.23	106500	6.36	185195	7.54	158609	10.02	165919	11.40
OP69240B-BS1	50647	4.51	191635	5.23	106500	6.36	185195	7.54	158609	10.02	165919	11.40
OP69240-BSD	53601	4.51	194685	5.23	113473	6.36	207839	7.54	175641	10.02	185394	11.40
OP69240B-BSD	53601	4.51	194685	5.23	113473	6.36	207839	7.54	175641	10.02	185394	11.40
OP69218-BS1	52955	4.51	208825	5.23	116019	6.36	206288	7.55	177113	10.02	185053	11.40
OP69218-BSD	52290	4.51	187526	5.23	112862	6.36	214227	7.55	177684	10.02	176932	11.40
OP69218-BS2	54386	4.51	199594	5.23	113133	6.36	211309	7.54	179228	10.02	185504	11.40
OP69218-BSD2	51458	4.51	187884	5.23	105277	6.36	196735	7.54	160303	10.02	176462	11.40
ZZZZZZ	56260	4.51	211327	5.23	123735	6.36	219621	7.55	180727	10.02	183166	11.40
ZZZZZZ	51797	4.51	204970	5.23	116081	6.36	204050	7.54	170138	10.02	165473	11.40
ZZZZZZ	58087	4.51	218553	5.23	118682	6.36	202203	7.55	159648	10.02	157421	11.40
ZZZZZZ	53049	4.51	208544	5.23	100355	6.36	174663	7.54	146983	10.02	163821	11.40
ZZZZZZ	53467	4.51	199001	5.23	108239	6.36	176975	7.54	126836	10.02	147520	11.40
ZZZZZZ	47965	4.52	168156	5.24	94020	6.38	176540	7.58	102191	10.14	143300	11.58
ZZZZZZ	47353	4.54	168876	5.26	95854	6.41	184228	7.62	96335	10.19	92787	11.73

IS 1 = 1,4-Dichlorobenzene-d4
IS 2 = Naphthalene-d8
IS 3 = Acenaphthene-d10
IS 4 = Phenanthrene-d10
IS 5 = Chrysene-d12
IS 6 = Perylene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Internal Standard Area Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Check Std:	ECS503-CC491	**Injection Date:**	11/25/25
Lab File ID:	CS9981.D	**Injection Time:**	17:29
Instrument ID:	GCMSCS	**Method:**	SW846 8270E BY SIM

	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
Check Std	53459	7.25	68324	8.34	102928	10.72	52717	14.72
Upper Limit [a]	106918	7.75	136648	8.84	205856	11.22	105434	15.22
Lower Limit [b]	26730	6.75	34162	7.84	51464	10.22	26359	14.22

Lab Sample ID	IS 1 AREA	RT	IS 2 AREA	RT	IS 3 AREA	RT	IS 4 AREA	RT
OP69305A-MB1	55482	7.25	70960	8.34	107780	10.69	57705	14.70
JE23960-3	50173	7.25	64814	8.34	100652	10.69	53810	14.70
OP69305A-BS12	55469	7.25	72372	8.34	109834	10.69	58990	14.70
OP69305A-BSD12	53686	7.25	69820	8.34	105172	10.69	56642	14.70
ZZZZZZ	57739	7.25	74075	8.34	111434	10.69	58420	14.70
ZZZZZZ	51308	7.25	66207	8.34	100034	10.69	52350	14.70
ZZZZZZ	56964	7.25	72772	8.34	111750	10.69	58079	14.70
ZZZZZZ	53299	7.25	68554	8.34	103724	10.69	53581	14.70
ZZZZZZ	54351	7.25	70429	8.34	107035	10.69	55841	14.70
JE23960-1	53873	7.25	67284	8.34	97510	10.69	48957	14.70
JE23960-2	54089	7.25	67195	8.34	98207	10.69	48816	14.70
ZZZZZZ	53047	7.25	67662	8.34	101629	10.69	53491	14.70
ZZZZZZ	50885	7.25	63669	8.34	91878	10.69	46891	14.70
ZZZZZZ	48559	7.25	61716	8.34	90964	10.69	48053	14.70
ZZZZZZ	53222	7.25	67283	8.34	98636	10.69	51609	14.70
ZZZZZZ	50128	7.25	63377	8.34	93018	10.69	49970	14.70
ZZZZZZ	52970	7.25	65671	8.34	92015	10.69	47801	14.70
ZZZZZZ	53260	7.25	66705	8.34	97781	10.69	50881	14.70
ZZZZZZ	54778	7.25	68637	8.34	98781	10.69	51982	14.70
ZZZZZZ	53028	7.25	67048	8.34	98586	10.69	51238	14.70
ZZZZZZ	50172	7.25	62791	8.34	90855	10.69	48041	14.70
ZZZZZZ	51608	7.25	65369	8.34	95412	10.69	48672	14.70
ZZZZZZ	50081	7.25	64714	8.34	96562	10.69	50210	14.70
ZZZZZZ	53852	7.25	62858	8.34	91244	10.69	46530	14.70
ZZZZZZ	52140	7.25	64215	8.34	93142	10.69	47242	14.70
ZZZZZZ	54218	7.25	68813	8.34	101072	10.69	49069	14.70

IS 1 = 1-Methylnaphthalene-d10
IS 2 = Fluorene-d10
IS 3 = Fluoranthene-d10
IS 4 = Benzo(a)pyrene-d12

(a) Upper Limit = + 100% of check standard area; Retention time + 0.5 minutes.
(b) Lower Limit = -50% of check standard area; Retention time -0.5 minutes.

Surrogate Recovery Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Method: SW846 8270E **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JE23960-1	3P115133.D	42	30	91	64	71	86
JE23960-2	3P115134.D	41	26	86	66	69	82
JE23960-3	5P106534.D	44	31	84	68	75	84
OP69240-BS1	5P106538.D	54	39	84	68	70	83
OP69240-BSD	5P106539.D	58	42	81	72	74	80
OP69240-MB1	5P106532.D	36	25	72	61	66	73

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	10-69%
S2 = Phenol-d5	10-47%
S3 = 2,4,6-Tribromophenol	17-144%
S4 = Nitrobenzene-d5	17-126%
S5 = 2-Fluorobiphenyl	23-124%
S6 = Terphenyl-d14	13-135%

Surrogate Recovery Summary

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Method: SW846 8270E BY SIM **Matrix:** AQ

Samples and QC shown here apply to the above method

Lab Sample ID	Lab File ID	S1	S2	S3	S4	S5	S6
JE23960-1	CS9992.D	44	32	72	68	60	69
JE23960-2	CS9993.D	41	30	68	57	54	65
JE23960-3	CS9984.D	48	36	69	61	56	73
OP69305A-BS12	CS9985.D	43	30	71	62	56	75
OP69305A-BSD12	CS9986.D	46	33	73	61	55	78
OP69305A-MB1	CS9983.D	42	30	63	59	53	61

Surrogate Compounds	Recovery Limits
S1 = 2-Fluorophenol	15-110%
S2 = Phenol-d5	12-110%
S3 = 2,4,6-Tribromophenol	32-143%
S4 = Nitrobenzene-d5	29-124%
S5 = 2-Fluorobiphenyl	23-122%
S6 = Terphenyl-d14	22-130%

Initial Calibration Summary

Job Number: JE23960 **Sample:** E3P5394-ICC5394
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P113985.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Response Factor Report GCMS3P

Method : C:\MSDCHEM\1\METHODS\M3P5394LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Thu Oct 02 17:53:41 2025
Response via : Initial Calibration

Calibration Files
10 =3p113993a.D 20 =3p113995a.D 16 =3p113994a.D 5 =3p113992a.D
2 =3p113991a.D 1 =3p113990a.D 0.4 =3p113989a.D 0.2 =3p113988a.D

Compound	10	20	16	5	2	1	0.4	0.2	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.576	0.609	0.581	0.585	0.601	0.577	0.573	0.606	0.589	2.44
3) Pyridine	1.609	1.658	1.617	1.575	1.555	1.420	1.417		1.550	6.17
4) N-Nitrosodim	0.873	0.925	0.901	0.830	0.791	0.629	0.709		0.808	13.30
5) 2-Fluorophen	1.323	1.357	1.340	1.300	1.278	1.252	1.262	1.311	1.303	2.86
6) Indene	2.288	2.230	2.238	2.395	2.440	2.349	2.410	2.509	2.357	4.23
7) Cumene	3.272	3.253	3.228	3.281	3.268	3.122	3.168	3.356	3.243	2.22
8) Phenol-d5	1.667	1.683	1.662	1.667	1.672	1.613	1.689	1.814	1.683	3.42
9) Phenol	1.728	1.778	1.731	1.786	1.775	1.648	1.875	1.993	1.789	5.84
10) Aniline	2.132	2.162	2.127	2.187	2.220	2.032	2.091	2.102	2.132	2.77
11) bis(2-Chloro	1.323	1.324	1.301	1.327	1.343	1.275	1.266	1.536	1.337	6.35
12) 2-Chlorophen	1.410	1.413	1.391	1.401	1.404	1.346	1.420	1.484	1.409	2.71
13) Decane	1.669	1.604	1.611	1.763	1.766	1.709	1.749	1.898	1.721	5.57
14) 1,3-Dichloro	1.567	1.550	1.525	1.590	1.639	1.578	1.556	1.678	1.585	3.17
15) 1,4-Dichloro	1.585	1.547	1.566	1.629	1.680	1.551	1.541	1.633	1.592	3.18
16) Benzyl alcoh	0.854	0.872	0.874	0.873	0.863	0.804	0.843	1.015	0.875	7.00
17) 1,2-Dichloro	1.522	1.474	1.453	1.554	1.565	1.467	1.516	1.656	1.526	4.35
18) Acetophenone	1.941	1.877	1.886	2.043	2.150	2.068	2.213	2.538	2.089	10.41
19) 2-Methylphen	1.254	1.216	1.233	1.307	1.307	1.287	1.286	1.400	1.286	4.41
20) 2,2'-oxybis(	2.112	1.934	2.006	2.225	2.296	2.241	2.425	2.590	2.229	9.65
21) 3&4-Methylph	1.273	1.248	1.252	1.336	1.343	1.306	1.356	1.490	1.325	5.91
22) n-Nitroso-di	1.042	0.999	1.004	1.112	1.151	1.070	1.264	1.321	1.120	10.61
23) Hexachloroet	0.511	0.508	0.504	0.519	0.533	0.523	0.547	0.536	0.523	2.91
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.341	0.360	0.343	0.334	0.316	0.299	0.305	0.353	0.331	6.73
26) Nitrobenzene	0.359	0.366	0.360	0.346	0.329	0.324	0.309	0.360	0.344	6.07
27) Quinoline	0.662	0.649	0.639	0.683	0.690	0.679	0.753	0.757	0.689	6.42
28) Isophorone	0.735	0.706	0.698	0.737	0.763	0.746	0.824	0.849	0.757	7.05
29) 2-Nitropheno	0.140	0.153	0.146	0.127	0.120	0.107	0.104	0.115	0.127	14.50
30) 2,4-Dimethyl	0.370	0.362	0.365	0.378	0.392	0.373	0.388	0.427	0.382	5.53
31) Benzoic acid	0.218	0.245	0.229	0.185	0.159	0.123			0.193	23.92
---- Quadratic regression ---- Coefficient = 0.9997										
Response Ratio = -0.00926 + 0.19152 *A + 0.02246 *A^2										
32) bis(2-Chloro	0.452	0.426	0.431	0.453	0.472	0.447	0.448	0.453	0.448	3.14
33) 2,4-Dichloro	0.300	0.297	0.291	0.295	0.298	0.273	0.288	0.312	0.294	3.85
34) 2,6-Dichloro	0.289	0.289	0.285	0.287	0.296	0.269	0.300	0.300	0.289	3.50
35) 1,3,5-Trichl	0.353	0.349	0.344	0.364	0.370	0.353	0.370	0.401	0.363	4.98
36) 1,2,4-Trichl	0.321	0.316	0.312	0.328	0.336	0.339	0.327	0.342	0.328	3.34
37) 1,2,3-Trichl	0.326	0.322	0.317	0.337	0.349	0.333	0.352	0.391	0.341	6.93
38) Naphthalene	1.015	0.993	0.973	1.041	1.066	1.059	1.138	1.219	1.063	7.62
39) 4-Chloroanil	0.451	0.435	0.431	0.453	0.465	0.452	0.452	0.510	0.456	5.31
40) 2,3-Dichloro	0.361	0.349	0.347	0.371	0.373	0.366	0.387	0.418	0.372	6.10
41) Hydroquinone	0.320	0.296	0.293	0.304	0.301	0.255	0.233	0.202	0.275	14.90
42) Hexachlorobu	0.189	0.187	0.187	0.195	0.198	0.187	0.189	0.219	0.194	5.61

Initial Calibration Summary

Job Number: JE23960 **Sample:** E3P5394-ICC5394
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P113985.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

43)	4-Chloro-3-m	0.303	0.297	0.297	0.315	0.315	0.300	0.300	0.300	0.303	2.46
44)	2-Methylnaph	0.571	0.553	0.552	0.587	0.595	0.583	0.595	0.641	0.585	4.85
45)	1-Methylnaph	0.615	0.591	0.585	0.621	0.646	0.631	0.667	0.744	0.637	7.95
46)	I Acenaphthene-d10	----------ISTD----------									
47)	Hexachlorocy	0.409	0.419	0.414	0.387	0.373	0.351	0.365	0.403	0.390	6.44
48)	1,2,4,5-Tetr	0.651	0.632	0.636	0.650	0.696	0.641	0.714	0.737	0.670	5.96
49)	2,4,6-Trichl	0.394	0.402	0.416	0.405	0.382	0.355	0.362	0.400	0.390	5.48
50)	2,4,5-Trichl	0.437	0.441	0.428	0.427	0.436	0.403	0.394	0.397	0.420	4.59
51)	2-Fluorobiph	1.407	1.359	1.354	1.456	1.509	1.428	1.465	1.674	1.457	7.03
52)	2-Chloronaph	1.230	1.181	1.204	1.265	1.341	1.256	1.324	1.377	1.272	5.42
53)	Biphenyl	1.579	1.514	1.530	1.610	1.662	1.605	1.694	1.928	1.640	7.99
54)	2-Nitroanili	0.324	0.346	0.332	0.308	0.292	0.271	0.272	0.269	0.302	10.03
55)	Dimethylphth	1.382	1.357	1.359	1.435	1.491	1.418	1.447	1.534	1.428	4.39
56)	Acenaphthyle	2.017	1.997	1.989	2.092	2.157	2.061	2.191	2.312	2.102	5.34
57)	2,6-Dinitrot	0.223	0.253	0.240	0.209	0.183	0.167	0.159	0.181	0.202	17.22
58)	3-Nitroanili	0.283	0.313	0.295	0.264	0.221	0.212	0.205	0.221	0.252	16.75
59)	Acenaphthene	1.280	1.267	1.261	1.341	1.394	1.369	1.404	1.524	1.355	6.56
60)	2,4-Dinitrop	0.093	0.114	0.104	0.078	0.068	0.057	0.048		0.080	30.60
	---- Quadratic regression ---- Coefficient = 0.9998										
	Response Ratio = -0.00277 + 0.07006 *A + 0.00891 *A^2										
61)	4-Nitropheno	0.162	0.172	0.168	0.161	0.169	0.141	0.156	0.141	0.159	7.65
62)	Dibenzofuran	1.701	1.659	1.662	1.766	1.887	1.802	1.816	1.894	1.773	5.27
63)	2,4-Dinitrot	0.301		0.313	0.270	0.239	0.200	0.204	0.212	0.249	18.79
64)	2,3,4,6-Tetr	0.332	0.345	0.337	0.323	0.316	0.293	0.267	0.273	0.311	9.58
65)	Diethylphtha	1.455	1.407	1.415	1.467	1.531	1.409	1.495	1.470	1.456	3.03
66)	Fluorene	1.394	1.331	1.351	1.433	1.516	1.419	1.491	1.677	1.451	7.63
67)	4-Chlorophen	0.648	0.632	0.636	0.658	0.696	0.673	0.747	0.762	0.682	7.29
68)	4-Nitroanili	0.289	0.312	0.289	0.267	0.244	0.214	0.220		0.262	14.32
69)	I Phenanthrene-d10	----------ISTD----------									
70)	4,6-Dinitro-	0.070	0.082	0.076	0.063	0.055	0.042			0.065	23.10
	---- Quadratic regression ---- Coefficient = 0.9999										
	Response Ratio = -0.00239 + 0.06075 *A + 0.00877 *A^2										
71)	n-Nitrosodip	0.686	0.651	0.652	0.695	0.705	0.659	0.682	0.746	0.685	4.67
72)	Pentachloron	0.035	0.037	0.037	0.031	0.026	0.024			0.032#	18.39
73)	1,2-Diphenyl	0.889	0.838	0.848	0.926	0.953	0.868	0.949	1.062	0.917	7.99
74)	2,4,6-Tribro	0.107	0.109	0.108	0.102	0.094	0.081	0.092	0.077	0.096	12.76
75)	4-Bromopheny	0.233	0.227	0.229	0.234	0.232	0.233	0.264	0.247	0.237	5.08
76)	Hexachlorobe	0.263	0.252	0.257	0.262	0.266	0.256	0.270	0.292	0.265	4.71
77)	Pentachlorop	0.160	0.166	0.163	0.146	0.130	0.113	0.108		0.141	17.10
78)	Phenanthrene	1.162	1.130	1.128	1.188	1.247	1.175	1.318	1.441	1.224	8.85
79)	Anthracene	1.202	1.147	1.159	1.225	1.252	1.197	1.278	1.387	1.231	6.23
80)	Carbazole	1.072	1.055	1.055	1.122	1.136	1.068	1.203	1.155	1.108	4.89
81)	Di-n-butylph	1.402	1.385	1.371	1.378	1.310	1.186	1.265	1.286	1.323	5.65
82)	Fluoranthene	1.245	1.237	1.235	1.278	1.306	1.242	1.316	1.383	1.280	4.09
83)	Octadecane	0.713	0.661	0.693	0.714	0.715	0.672	0.709	0.737	0.702	3.56
84)	I Chrysene-d12	----------ISTD----------									
85)	Benzidine	0.839	0.851	0.855	0.752	0.669	0.522			0.748	17.69
86)	Pyrene	1.523	1.469	1.492	1.550	1.624	1.582	1.625	1.781	1.581	6.26
87)	Terphenyl-d1	1.144	1.097	1.121	1.155	1.162	1.105	1.162	1.286	1.154	5.11
88)	Butylbenzylp	0.648	0.675	0.665	0.600	0.566	0.487	0.510	0.490	0.580	13.51
89)	Benzo[a]anth	1.381	1.375	1.368	1.396	1.422	1.356	1.441	1.596	1.417	5.48
90)	3,3'-Dichlor	0.502	0.520	0.507	0.495	0.473	0.404	0.400	0.410	0.464	10.95
91)	Chrysene	1.300	1.263	1.267	1.316	1.365	1.313	1.395	1.553	1.346	7.03
92)	bis(2-Ethylh	0.973	0.986	0.988	0.913	0.836	0.731	0.723	0.720	0.859	14.13

Initial Calibration Summary

Job Number: JE23960 **Sample:** E3P5394-ICC5394
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P113985.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

```
 93) I   Perylene-d12          ----------------ISTD--------------------
 94) Di-n-octylph 1.562 1.687 1.651 1.428 1.298 1.123 1.073 1.089 1.364  18.63
 95) Benzo[b]fluo 1.307 1.358 1.302 1.328 1.400 1.349 1.311 1.498 1.357   4.85
 96) Benzo[k]fluo 1.251 1.227 1.270 1.295 1.312 1.229 1.382 1.373 1.292   4.67
 97) Benzo[a]pyre 1.171 1.179 1.187 1.168 1.208 1.111 1.194 1.249 1.183   3.31
 98) Indeno[1,2,3 1.029 1.150 1.065 0.992 1.007 0.981 0.936 0.986 1.018   6.40
 99) Dibenz(a,h)a 0.889 0.944 0.922 0.864 0.853 0.763 0.828 0.841 0.863   6.57
100) Dibenz[a,h]a 1.056 1.118 1.090 1.046 1.040 0.984 0.985 1.090 1.051   4.62
101) 7,12-Dimethy 0.498 0.483 0.488 0.494 0.498 0.482 0.486 0.500 0.491   1.44
102) Benzo[g,h,i] 1.005 1.083 1.029 0.988 1.003 0.936 0.963 1.036 1.005   4.53

103)     1,4-Dichlorobenzene-d ----------------ISTD--------------------
104) Benzaldehyde 1.112 1.158 1.160 1.204 1.213 1.194 1.225 1.195 1.183   3.12

105)     Phenanthrene-d10a     ----------------ISTD--------------------
106) Atrazine     0.083 0.094 0.091 0.092 0.086 0.081 0.076 0.099 0.088   8.70

107)     Naphthalene-d8a       ----------------ISTD--------------------
108) Caprolactam  0.162 0.174 0.172 0.163 0.150 0.147 0.135       0.158   8.99

109)     Chrysene-d12a         ----------------ISTD--------------------
110) 2,3,7,8-TCDD                                                0.000# -1.00

111)     Phenanthrene-d10b     ----------------ISTD--------------------
112) 1-chloroocta 0.408 0.451 0.444 0.470 0.460 0.419 0.392 0.417 0.433   6.37
113) o-terphenyl  0.513 0.570 0.563 0.581 0.566 0.562 0.550 0.590 0.562   4.11
 ---------------------------------------------------------------------------
 (#) = Out of Range  ###  Number of calibration levels exceeded format  ###

           M3P5394LVI.M        Thu Oct 02 17:57:59 2025
```

Initial Calibration Verification

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample: E3P5394-ICV5394
Lab FileID: 3P113996.D

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\e3p5394\3p113996.D Vial: 18
Acq On : 1 Oct 2025 6:09 pm Operator: thomasl
Sample : icv5394-10 Inst : GCMS3P
Misc : op67466,e3p5394,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P5394LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Thu Oct 02 17:53:41 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	103	0.00	4.69
2	t	1,4-Dioxane	0.589	0.511	13.2	92	0.00	2.88
3	t	Pyridine	1.550	1.461	5.7	94	0.00	3.10
4	t	N-Nitrosodimethylamine	0.808	0.792	2.0	94	0.00	3.07
6	t	Indene	2.357	2.136	9.4	96	0.00	4.85
7	t	Cumene	3.243	2.968	8.5	94	0.00	4.21
9	t	Phenol	1.789	1.676	6.3	100	0.00	4.45
10		Aniline	2.132	2.033	4.6	99	0.00	4.49
11	t	bis(2-Chloroethyl)ether	1.337	1.226	8.3	96	0.00	4.52
12	t	2-Chlorophenol	1.409	1.330	5.6	97	0.00	4.56
13	t	Decane	1.721	1.536	10.7	95	0.00	4.58
14	t	1,3-Dichlorobenzene	1.585	1.425	10.1	94	0.00	4.66
15	t	1,4-Dichlorobenzene	1.592	1.468	7.8	96	0.00	4.71
16	t	Benzyl alcohol	0.875	0.815	6.9	99	0.00	4.77
17	t	1,2-Dichlorobenzene	1.526	1.359	10.9	92	0.00	4.80
18	t	Acetophenone	2.089	1.797	14.0	96	0.00	4.94
19	t	2-Methylphenol	1.286	1.217	5.4	100	0.00	4.83
20	t	2,2'-oxybis(1-Chloropropa	2.229	1.971	11.6	96	0.00	4.85
21	t	3&4-Methylphenol	1.325	1.225	7.5	99	0.00	4.92
22	t	n-Nitroso-di-n-propylamin	1.120	0.989	11.7	98	0.00	4.94
23	t	Hexachloroethane	0.523	0.476	9.0	96	0.00	5.01
24	I	Naphthalene-d8	1.000	1.000	0.0	104	0.00	5.49
26	t	Nitrobenzene	0.344	0.323	6.1	94	0.00	5.05
27	t	Quinoline	0.689	0.628	8.9	99	0.00	5.74
28	t	Isophorone	0.757	0.683	9.8	97	0.00	5.19
29	t	2-Nitrophenol	0.127	0.134	-5.5	100	0.00	5.25
30	t	2,4-Dimethylphenol	0.382	0.364	4.7	102	0.00	5.26
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	10.000	9.603	4.0	97	0.00	5.33
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.448	0.410	8.5	94	0.00	5.32
33	t	2,4-Dichlorophenol	0.294	0.291	1.0	101	0.00	5.39
34	t	2,6-Dichlorophenol	0.289	0.276	4.5	99	0.00	5.53
35		1,3,5-Trichlorobenzene	0.363	0.329	9.4	97	0.00	5.25
36	t	1,2,4-Trichlorobenzene	0.328	0.303	7.6	98	0.00	5.45
37		1,2,3-Trichlorobenzene	0.341	0.298	12.6	95	0.00	5.59

Initial Calibration Verification

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample: E3P5394-ICV5394
Lab FileID: 3P113996.D

38	t	Naphthalene	1.063	0.939	11.7	96	0.00	5.50
39	t	4-Chloroaniline	0.456	0.411	9.9	95	0.00	5.53
40	t	2,3-Dichloroaniline	0.372	0.334	10.2	96	0.00	6.18
41	t	Hydroquinone	0.275	0.202	26.5	66	0.02	5.77
42	t	Hexachlorobutadiene	0.194	0.176	9.3	97	0.00	5.58
43	t	4-Chloro-3-methylphenol	0.303	0.291	4.0	100	0.00	5.85
44	t	2-Methylnaphthalene	0.585	0.533	8.9	97	0.00	5.97
45	t	1-Methylnaphthalene	0.637	0.567	11.0	96	0.00	6.04
46	I	Acenaphthene-d10	1.000	1.000	0.0	102	0.00	6.78
47	t	Hexachlorocyclopentadiene	0.390	0.384	1.5	96	0.00	6.08
48	t	1,2,4,5-Tetrachlorobenzen	0.670	0.600	10.4	94	0.00	6.09
49	t	2,4,6-Trichlorophenol	0.390	0.395	-1.3	103	0.00	6.18
50	t	2,4,5-Trichlorophenol	0.420	0.439	-4.5	103	0.00	6.20
52	t	2-Chloronaphthalene	1.272	1.181	7.2	98	0.00	6.34
53	t	Biphenyl	1.640	1.499	8.6	97	0.00	6.32
54	t	2-Nitroaniline	0.302	0.324	-7.3	102	0.00	6.41
55	t	Dimethylphthalate	1.428	1.308	8.4	97	0.00	6.55
56	t	Acenaphthylene	2.102	1.921	8.6	97	0.00	6.66
57	t	2,6-Dinitrotoluene	0.202	0.220	-8.9	101	0.00	6.60
58	t	3-Nitroaniline	0.252	0.274	-8.7	99	0.00	6.74
59	t	Acenaphthene	1.355	1.219	10.0	97	0.00	6.81
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	20.000	19.695	1.5	98	0.00	6.83
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.159	0.163	-2.5	103	0.00	6.87
62	t	Dibenzofuran	1.773	1.625	8.3	98	0.00	6.95
63	t	2,4-Dinitrotoluene	0.249	0.290	-16.5	98	0.00	6.94
64		2,3,4,6-Tetrachlorophenol	0.311	0.324	-4.2	100	0.00	7.05
65	t	Diethylphthalate	1.456	1.392	4.4	98	0.00	7.14
66	t	Fluorene	1.451	1.317	9.2	97	0.00	7.26
67	t	4-Chlorophenyl-phenylethe	0.682	0.608	10.9	96	0.00	7.25
68	t	4-Nitroaniline	0.262	0.256	2.3	90	0.00	7.28
69	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00	8.17
		----------	True	Calc.	% Drift	----------		
70	t	4,6-Dinitro-2-methylpheno	10.000	9.751	2.5	101	0.00	7.29
		----------	AvgRF	CCRF	% Dev	----------		
71	t	n-Nitrosodiphenylamine	0.685	0.634	7.4	96	0.00	7.36
72	t	Pentachloronitrobenzene	0.032	0.033#	-3.1	97	0.00	7.98
73	t	1,2-Diphenylhydrazine	0.917	0.824	10.1	97	0.00	7.40
75	t	4-Bromophenyl-phenylether	0.237	0.212	10.5	95	0.00	7.71
76	t	Hexachlorobenzene	0.265	0.243	8.3	96	0.00	7.78
77	t	Pentachlorophenol	0.141	0.146	-3.5	96	0.00	7.97
78	t	Phenanthrene	1.224	1.077	12.0	97	0.00	8.19
79	t	Anthracene	1.231	1.103	10.4	96	0.00	8.25
80	t	Carbazole	1.108	1.003	9.5	98	0.00	8.41
81	t	Di-n-butylphthalate	1.323	1.363	-3.0	101	0.00	8.80
82	t	Fluoranthene	1.280	1.182	7.7	99	0.00	9.50
83	t	Octadecane	0.702	0.655	6.7	96	0.00	8.05
84	I	Chrysene-d12	1.000	1.000	0.0	106	0.00	11.19
85	t	Benzidine	0.748	0.767	-2.5	97	0.00	9.67
86	t	Pyrene	1.581	1.401	11.4	98	0.00	9.76

Initial Calibration Verification

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample: E3P5394-ICV5394
Lab FileID: 3P113996.D

88	t	Butylbenzylphthalate	0.580	0.621	-7.1	102	0.00	10.55
89	t	Benzo[a]anthracene	1.417	1.292	8.8	100	0.00	11.17
90	t	3,3'-Dichlorobenzidine	0.464	0.458	1.3	97	0.00	11.16
91	t	Chrysene	1.346	1.212	10.0	99	0.00	11.21
92	t	bis(2-Ethylhexyl)phthalat	0.859	0.926	-7.8	101	0.00	11.25
93	I	Perylene-d12	1.000	1.000	0.0	101	0.00	12.82
94	t	Di-n-octylphthalate	1.364	1.614	-18.3	104	0.00	12.00
95	t	Benzo[b]fluoranthene	1.357	1.250	7.9	97	0.00	12.40
96	t	Benzo[k]fluoranthene	1.292	1.231	4.7	99	0.00	12.42
97	t	Benzo[a]pyrene	1.183	1.119	5.4	96	0.00	12.75
98	t	Indeno[1,2,3-cd]pyrene	1.018	1.015	0.3	99	0.00	14.17
99	t	Dibenz(a,h)acridine	0.863	0.838	2.9	95	0.00	13.85
100	t	Dibenz[a,h]anthracene	1.051	1.017	3.2	97	0.00	14.19
101	t	7,12-Dimethylbenz(a)anthr	0.491	0.413	15.9	84	0.00	12.39
102	t	Benzo[g,h,i]perylene	1.005	0.965	4.0	97	0.00	14.56

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p113993a.D M3P5394LVI.M Thu Oct 02 17:55:52 2025

Initial Calibration Verification

Job Number: JE23960 **Sample:** E3P5394-ICV5394
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P113997.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\e3p5394\3p113997.D Vial: 19
Acq On : 1 Oct 2025 6:29 pm Operator: thomasl
Sample : icv5394-10 Inst : GCMS3P
Misc : op67466,e3p5394,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P5394LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Thu Oct 02 17:53:41 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	93	0.00	4.69
104	Benzaldehyde	1.183	1.205	-1.9	101	0.00	4.43
105	Phenanthrene-d10a	1.000	1.000	0.0	90	0.00	8.17
106	Atrazine	0.088	0.091	-3.4	99	0.00	7.87
107	Naphthalene-d8a	1.000	1.000	0.0	95	0.00	5.49
108 t	Caprolactam	0.158	0.168	-6.3	99	0.00	5.78

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p113993a.D M3P5394LVI.M Thu Oct 02 17:58:16 2025

Initial Calibration Summary

Job Number: JE23960 **Sample:** E3P5401-ICC5401
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P114384.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Response Factor Report GCMS3P

Method : C:\MSDCHEM\1\METHODS\M3P5401LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Fri Oct 10 16:40:44 2025
Response via : Initial Calibration

Calibration Files
10 =3p114384.D 20 =3p114386.D 16 =3p114385.D 5 =3p114383.D
2 =3p114382.D 1 =3p114381.D 0.4 =3p114380.D 0.2 =3p114379.D

Compound	10	20	16	5	2	1	0.4	0.2	Avg	%RSD
1) I 1,4-Dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.534	0.585	0.568	0.552	0.544	0.558	0.560	0.511	0.552	4.04
3) Pyridine	1.536	1.610	1.575	1.521	1.503	1.382	1.463	1.643	1.529	5.44
4) N-Nitrosodim	0.819	0.901	0.871	0.850	0.808	0.756	0.720	0.780	0.813	7.42
5) 2-Fluorophen	1.255	1.357	1.323	1.270	1.281	1.208	1.238	1.310	1.280	3.77
6) Indene	2.233	2.212	2.202	2.310	2.407	2.252	2.417	2.437	2.309	4.26
7) Cumene	3.116	3.268	3.154	3.170	3.205	3.069	3.122	3.200	3.163	1.97
8) Phenol-d5	1.579	1.681	1.644	1.609	1.593	1.507	1.643	1.875	1.641	6.57
9) Phenol	1.662	1.749	1.720	1.731	1.693	1.662	1.765	1.887	1.734	4.18
10) Aniline	1.982	1.967	2.004	2.086	2.112	1.967	1.927	1.750	1.975	5.59
11) bis(2-Chloro	1.225	1.302	1.280	1.294	1.304	1.274	1.272	1.590	1.318	8.57
12) 2-Chlorophen	1.357	1.426	1.386	1.395	1.431	1.248	1.410	1.498	1.394	5.15
13) Decane	1.491	1.487	1.463	1.560	1.604	1.561	1.660	1.727	1.569	5.82
14) 1,3-Dichloro	1.517	1.537	1.512	1.553	1.598	1.521	1.586	1.589	1.552	2.26
15) 1,4-Dichloro	1.571	1.579	1.523	1.590	1.639	1.551	1.604	1.632	1.586	2.48
16) Benzyl alcoh	0.815	0.805	0.826	0.839	0.854	0.815	0.849	0.831	0.829	2.09
17) 1,2-Dichloro	1.477	1.462	1.444	1.533	1.548	1.471	1.517	1.592	1.505	3.34
18) Acetophenone	1.866	1.819	1.814	1.990	2.022	1.981	2.171	2.165	1.979	7.12
19) 2-Methylphen	1.226	1.243	1.201	1.281	1.274	1.281	1.324	1.531	1.295	7.92
20) 2,2'-oxybis(	1.865	1.787	1.786	1.984	2.085	2.044	2.216	2.381	2.018	10.40
21) 3&4-Methylph	1.253	1.237	1.217	1.320	1.373	1.318	1.366	1.445	1.316	5.92
22) n-Nitroso-di	0.966	0.945	0.946	1.032	1.049	1.005	1.044	1.138	1.016	6.40
23) Hexachloroet	0.511	0.516	0.509	0.536	0.561	0.541	0.526	0.603	0.538	5.90
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.387	0.379	0.380	0.394	0.398	0.367	0.388	0.444	0.392	5.90
26) Nitrobenzene	0.389	0.380	0.380	0.393	0.416	0.366	0.414	0.460	0.400	7.44
27) Quinoline	0.636	0.627	0.638	0.681	0.737	0.670	0.705	0.752	0.681	6.96
28) Isophorone	0.697	0.673	0.670	0.709	0.729	0.660	0.723	0.771	0.704	5.29
29) 2-Nitropheno	0.177	0.181	0.181	0.172	0.168	0.155	0.158	0.172	0.170	5.77
30) 2,4-Dimethyl	0.367	0.362	0.362	0.373	0.389	0.371	0.403	0.401	0.379	4.41
31) Benzoic acid	0.187	0.233	0.221	0.154	0.111	0.091			0.166	34.87
---- Quadratic regression ---- Coefficient = 0.9995										
Response Ratio = -0.00903 + 0.14819 *A + 0.03654 *A^2										
32) bis(2-Chloro	0.432	0.418	0.421	0.450	0.462	0.434	0.454	0.516	0.448	7.01
33) 2,4-Dichloro	0.303	0.296	0.300	0.297	0.308	0.291	0.291	0.328	0.302	4.03
34) 2,6-Dichloro	0.291	0.290	0.294	0.295	0.308	0.271	0.302	0.348	0.300	7.38
35) 1,3,5-Trichl	0.349	0.340	0.347	0.361	0.372	0.346	0.364	0.391	0.359	4.73
36) 1,2,4-Trichl	0.319	0.312	0.316	0.322	0.341	0.313	0.345	0.378	0.331	6.87
37) 1,2,3-Trichl	0.324	0.313	0.317	0.339	0.347	0.328	0.344	0.368	0.335	5.43
38) Naphthalene	1.023	0.983	0.989	1.052	1.076	1.019	1.080	1.206	1.053	6.79
39) 4-Chloroanil	0.416	0.393	0.400	0.436	0.443	0.407	0.416	0.366	0.410	5.95
40) 2,3-Dichloro	0.348	0.335	0.335	0.366	0.381	0.365	0.385	0.434	0.369	8.84
41) Hydroquinone	0.295	0.247	0.250	0.308	0.301	0.244	0.211	0.182	0.255	17.55
42) Hexachlorobu	0.193	0.186	0.186	0.193	0.208	0.194	0.195	0.209	0.196	4.51

Initial Calibration Summary

Job Number: JE23960 **Sample:** E3P5401-ICC5401
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P114384.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

43)	4-Chloro-3-m	0.297	0.294	0.296	0.305	0.312	0.294	0.302	0.335	0.304	4.59
44)	2-Methylnaph	0.564	0.537	0.551	0.572	0.610	0.564	0.606	0.613	0.577	5.03
45)	1-Methylnaph	0.597	0.581	0.581	0.619	0.673	0.609	0.624	0.712	0.624	7.35
46)	I Acenaphthene-d10	----------ISTD----------									
47)	Hexachlorocy	0.463	0.474	0.472	0.465	0.464	0.433	0.424	0.459	0.457	3.96
48)	1,2,4,5-Tetr	0.638	0.651	0.650	0.657	0.677	0.613	0.694	0.752	0.667	6.33
49)	2,4,6-Trichl	0.413	0.419	0.422	0.434	0.412	0.371	0.384	0.394	0.406	5.20
50)	2,4,5-Trichl	0.451	0.449	0.458	0.459	0.459	0.435	0.436	0.494	0.455	4.04
51)	2-Fluorobiph	1.405	1.378	1.402	1.466	1.517	1.458	1.530	1.726	1.485	7.50
52)	2-Chloronaph	1.238	1.199	1.235	1.261	1.323	1.262	1.268	1.489	1.284	7.01
53)	Biphenyl	1.573	1.546	1.571	1.642	1.667	1.575	1.665	1.791	1.629	4.95
54)	2-Nitroanili	0.369	0.380	0.379	0.396	0.366	0.346	0.356	0.397	0.374	4.82
55)	Dimethylphth	1.356	1.323	1.351	1.413	1.467	1.426	1.463	1.544	1.418	5.17
56)	Acenaphthyle	2.015	2.002	2.019	2.101	2.140	1.984	2.096	2.227	2.073	4.02
57)	2,6-Dinitrot	0.271	0.286	0.281	0.280	0.269	0.245	0.233	0.296	0.270	7.84
58)	3-Nitroanili	0.313	0.321	0.318	0.331	0.318	0.270	0.274	0.274	0.302	8.27
59)	Acenaphthene	1.277	1.282	1.295	1.362	1.418	1.295	1.417	1.626	1.372	8.63
60)	2,4-Dinitrop	0.142	0.162	0.157	0.142	0.120	0.102	0.092	0.079	0.124	24.96
	---- Quadratic regression ---- Coefficient = 0.9994										
	Response Ratio = -0.00335 + 0.12813 *A + 0.00706 *A^2										
61)	4-Nitropheno	0.179	0.184	0.189	0.192	0.176	0.159	0.152	0.162	0.174	8.61
62)	Dibenzofuran	1.708	1.675	1.701	1.779	1.861	1.748	2.005	2.073	1.819	8.17
63)	2,4-Dinitrot	0.368	0.376	0.376	0.371	0.358	0.327	0.308	0.338	0.353	7.24
64)	2,3,4,6-Tetr	0.357	0.356	0.358	0.364	0.350	0.330	0.302	0.310	0.341	7.01
65)	Diethylphtha	1.357	1.363	1.367	1.450	1.476	1.409	1.502	1.556	1.435	5.11
66)	Fluorene	1.377	1.358	1.365	1.442	1.502	1.422	1.491	1.557	1.439	5.04
67)	4-Chlorophen	0.638	0.635	0.636	0.660	0.699	0.684	0.682	0.747	0.673	5.75
68)	4-Nitroanili	0.317	0.295	0.322	0.340	0.322	0.297	0.266	0.306	0.308	7.31
69)	I Phenanthrene-d10	----------ISTD----------									
70)	4,6-Dinitro-	0.106	0.116	0.114	0.101	0.088	0.075	0.071		0.096	19.00
71)	n-Nitrosodip	0.679	0.670	0.663	0.705	0.712	0.667	0.675	0.745	0.689	4.15
72)	Pentachloron	0.039	0.041	0.041	0.041	0.037	0.035	0.029	0.042	0.038#	11.35
73)	1,2-Diphenyl	0.876	0.853	0.846	0.898	0.905	0.839	0.880	0.932	0.878	3.64
74)	2,4,6-Tribro	0.114	0.118	0.117	0.115	0.114	0.097	0.104	0.112	0.111	6.55
75)	4-Bromopheny	0.234	0.234	0.233	0.240	0.243	0.217	0.246	0.254	0.238	4.68
76)	Hexachlorobe	0.261	0.260	0.255	0.264	0.263	0.273	0.262	0.310	0.268	6.54
77)	Pentachlorop	0.168	0.177	0.170	0.165	0.149	0.120	0.109		0.151	17.56
78)	Phenanthrene	1.150	1.146	1.123	1.194	1.234	1.180	1.288	1.376	1.211	7.00
79)	Anthracene	1.189	1.152	1.145	1.216	1.248	1.154	1.206	1.269	1.197	3.86
80)	Carbazole	1.068	1.060	1.039	1.097	1.111	1.070	1.052	1.165	1.083	3.74
81)	Di-n-butylph	1.301	1.335	1.321	1.331	1.275	1.193	1.253	1.337	1.293	3.91
82)	Fluoranthene	1.213	1.232	1.209	1.252	1.244	1.173	1.234	1.341	1.237	3.92
83)	Octadecane	0.654	0.645	0.633	0.641	0.647	0.602	0.607	0.699	0.641	4.69
84)	I Chrysene-d12	----------ISTD----------									
85)	Benzidine	2.238	0.776	0.765	0.727	0.657	0.532	0.432		0.875	70.15
86)	Pyrene	1.530	1.520	1.489	1.549	1.589	1.480	1.562	1.723	1.555	4.95
87)	Terphenyl-d1	1.131	1.121	1.092	1.139	1.161	1.089	1.191	1.218	1.143	3.97
88)	Butylbenzylp	0.648	0.683	0.658	0.630	0.587	0.547	0.561	0.605	0.615	7.82
89)	Benzo[a]anth	1.360	1.364	1.346	1.377	1.389	1.309	1.408	1.594	1.393	6.20
90)	3,3'-Dichlor	0.491	0.514	0.492	0.460	0.446	0.401	0.422	0.480	0.463	8.28
91)	Chrysene	1.291	1.268	1.245	1.313	1.368	1.315	1.397	1.510	1.338	6.37
92)	bis(2-Ethylh	0.941	0.977	0.950	0.908	0.841	0.722	0.733	0.870	0.868	11.19
93)	I Perylene-d12	----------ISTD----------									
94)	Di-n-octylph	1.574	1.640	1.613	1.542	1.340	1.210	1.214	1.357	1.436	12.31
95)	Benzo[b]fluo	1.327	1.362	1.319	1.383	1.315	1.236	1.320	1.433	1.337	4.32

Initial Calibration Summary

Job Number: JE23960 **Sample:** E3P5401-ICC5401
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P114384.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

96)	Benzo[k]fluo	1.254	1.200	1.218	1.278	1.314	1.267	1.296	1.361	1.274	4.06
97)	Benzo[a]pyre	1.184	1.177	1.173	1.188	1.138	1.097	1.114	1.272	1.168	4.62
98)	Indeno[1,2,3	1.279	1.370	1.331	1.239	1.226	1.144	1.222	1.289	1.263	5.58
99)	Dibenz(a,h)a	0.891	0.962	0.921	0.851	0.819	0.752	0.822	0.852	0.859	7.62
100)	Dibenz[a,h]a	1.095	1.143	1.109	1.049	1.047	0.989	1.045	1.158	1.080	5.28
101)	7,12-Dimethy	0.452	0.411	0.412	0.448	0.432	0.405	0.446	0.456	0.433	4.75
102)	Benzo[g,h,i]	1.016	1.093	1.048	0.994	0.974	0.949	0.997	1.082	1.019	5.03

(#) = Out of Range ### Number of calibration levels exceeded format ###

M3P5401LVI.M Fri Oct 10 16:41:33 2025

Initial Calibration Verification

Job Number: JE23960 **Sample:** E3P5401-ICV5401
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P114387.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\data\e3p5401\3p114387.D Vial: 10
Acq On : 10 Oct 2025 12:25 pm Operator: rocquans
Sample : icv5401-10 Inst : GCMS3P
Misc : op67866,e3p5401,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M3P5401LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Fri Oct 10 18:03:10 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	117	0.00	4.65
2	t	1,4-Dioxane	0.552	0.487	11.8	107	0.00	2.79
3	t	Pyridine	1.529	1.412	7.7	107	0.00	3.02
4	t	N-Nitrosodimethylamine	0.813	0.800	1.6	114	0.00	2.98
6	t	Indene	2.309	2.147	7.0	112	0.00	4.81
7	t	Cumene	3.163	2.897	8.4	109	0.00	4.16
9	t	Phenol	1.734	1.685	2.8	118	0.00	4.41
10		Aniline	1.975	1.859	5.9	110	0.00	4.44
11	t	bis(2-Chloroethyl)ether	1.318	1.234	6.4	118	0.00	4.48
12	t	2-Chlorophenol	1.394	1.370	1.7	118	0.00	4.52
13	t	Decane	1.569	1.411	10.1	111	0.00	4.53
14	t	1,3-Dichlorobenzene	1.552	1.474	5.0	114	0.00	4.61
15	t	1,4-Dichlorobenzene	1.586	1.475	7.0	110	0.00	4.66
16	t	Benzyl alcohol	0.829	0.797	3.9	114	0.00	4.73
17	t	1,2-Dichlorobenzene	1.505	1.390	7.6	110	0.00	4.75
18	t	Acetophenone	1.979	1.762	11.0	110	0.00	4.90
19	t	2-Methylphenol	1.295	1.203	7.1	115	0.00	4.79
20	t	2,2'-oxybis(1-Chloropropa	2.018	1.770	12.3	111	0.00	4.81
21	t	3&4-Methylphenol	1.316	1.245	5.4	116	0.00	4.89
22	t	n-Nitroso-di-n-propylamin	1.016	0.947	6.8	115	0.00	4.89
23	t	Hexachloroethane	0.538	0.497	7.6	114	0.00	4.97
24	I	Naphthalene-d8	1.000	1.000	0.0	120	0.00	5.45
26	t	Nitrobenzene	0.400	0.369	7.8	114	0.00	5.00
27	t	Quinoline	0.681	0.620	9.0	117	0.00	5.69
28	t	Isophorone	0.704	0.653	7.2	112	0.00	5.15
29	t	2-Nitrophenol	0.170	0.175	-2.9	118	0.00	5.20
30	t	2,4-Dimethylphenol	0.379	0.362	4.5	118	0.00	5.22
			True	Calc.	% Drift			
31	t	Benzoic acid	10.000	10.905	-9.0	134	0.01	5.29
			AvgRF	CCRF	% Dev			
32	t	bis(2-Chloroethoxy)methan	0.448	0.404	9.8	112	0.00	5.28
33	t	2,4-Dichlorophenol	0.302	0.296	2.0	117	0.00	5.35
34	t	2,6-Dichlorophenol	0.300	0.288	4.0	119	0.00	5.49
35		1,3,5-Trichlorobenzene	0.359	0.329	8.4	113	0.00	5.21
36	t	1,2,4-Trichlorobenzene	0.331	0.301	9.1	113	0.00	5.41
37		1,2,3-Trichlorobenzene	0.335	0.299	10.7	111	0.00	5.55
38	t	Naphthalene	1.053	0.957	9.1	112	0.00	5.46
39	t	4-Chloroaniline	0.410	0.392	4.4	113	0.00	5.49
40	t	2,3-Dichloroaniline	0.369	0.327	11.4	113	0.00	6.13

Initial Calibration Verification

Job Number: JE23960 **Sample:** E3P5401-ICV5401
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P114387.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

41	t	Hydroquinone	0.255	0.166	34.9#	68	0.02	5.73
42	t	Hexachlorobutadiene	0.196	0.176	10.2	110	0.00	5.53
43	t	4-Chloro-3-methylphenol	0.304	0.291	4.3	118	0.00	5.81
44	t	2-Methylnaphthalene	0.577	0.520	9.9	111	0.00	5.92
45	t	1-Methylnaphthalene	0.624	0.556	10.9	112	0.00	5.99
46	I	Acenaphthene-d10	1.000	1.000	0.0	119	0.00	6.72
47	t	Hexachlorocyclopentadiene	0.457	0.443	3.1	113	0.00	6.03
48	t	1,2,4,5-Tetrachlorobenzen	0.667	0.599	10.2	111	0.00	6.04
49	t	2,4,6-Trichlorophenol	0.406	0.406	0.0	117	0.00	6.12
50	t	2,4,5-Trichlorophenol	0.455	0.433	4.8	114	0.00	6.15
52	t	2-Chloronaphthalene	1.284	1.175	8.5	112	0.00	6.28
53	t	Biphenyl	1.629	1.491	8.5	112	0.00	6.26
54	t	2-Nitroaniline	0.374	0.368	1.6	118	0.00	6.36
55	t	Dimethylphthalate	1.418	1.278	9.9	112	0.00	6.49
56	t	Acenaphthylene	2.073	1.921	7.3	113	0.00	6.60
57	t	2,6-Dinitrotoluene	0.270	0.271	-0.4	119	0.00	6.54
58	t	3-Nitroaniline	0.302	0.299	1.0	113	0.00	6.68
59	t	Acenaphthene	1.372	1.219	11.2	113	0.00	6.74
			True	Calc.	% Drift			
60	t	2,4-Dinitrophenol	20.000	20.988	-4.9	127	0.00	6.77
			AvgRF	CCRF	% Dev			
61	t	4-Nitrophenol	0.174	0.177	-1.7	117	0.00	6.81
62	t	Dibenzofuran	1.819	1.609	11.5	112	0.00	6.89
63	t	2,4-Dinitrotoluene	0.353	0.358	-1.4	115	0.00	6.87
64		2,3,4,6-Tetrachlorophenol	0.341	0.342	-0.3	114	0.00	6.99
65	t	Diethylphthalate	1.435	1.285	10.5	112	0.00	7.08
66	t	Fluorene	1.439	1.300	9.7	112	0.00	7.19
67	t	4-Chlorophenyl-phenylethe	0.673	0.599	11.0	111	0.00	7.18
68	t	4-Nitroaniline	0.308	0.283	8.1	106	0.00	7.21
69	I	Phenanthrene-d10	1.000	1.000	0.0	119	0.00	8.10
70	t	4,6-Dinitro-2-methylpheno	0.096	0.110	-14.6	124	0.00	7.23
71	t	n-Nitrosodiphenylamine	0.689	0.649	5.8	113	0.00	7.29
72	t	Pentachloronitrobenzene	0.038	0.039#	-2.6	118	0.00	7.91
73	t	1,2-Diphenylhydrazine	0.878	0.815	7.2	110	0.00	7.33
75	t	4-Bromophenyl-phenylether	0.238	0.219	8.0	111	0.00	7.64
76	t	Hexachlorobenzene	0.268	0.248	7.5	113	0.00	7.71
77	t	Pentachlorophenol	0.151	0.159	-5.3	112	0.00	7.90
78	t	Phenanthrene	1.211	1.084	10.5	112	0.00	8.12
79	t	Anthracene	1.197	1.106	7.6	110	0.00	8.18
80	t	Carbazole	1.083	0.996	8.0	111	0.00	8.34
81	t	Di-n-butylphthalate	1.293	1.277	1.2	116	0.00	8.73
82	t	Fluoranthene	1.237	1.154	6.7	113	0.00	9.42
83	t	Octadecane	0.641	0.596	7.0	108	0.00	7.97
84	I	Chrysene-d12	1.000	1.000	0.0	120	0.00	11.11
85	t	Benzidine	0.875	0.570	34.9#	31#	0.00	9.59
86	t	Pyrene	1.555	1.432	7.9	112	0.00	9.68
88	t	Butylbenzylphthalate	0.615	0.611	0.7	113	0.00	10.47
89	t	Benzo[a]anthracene	1.393	1.273	8.6	112	0.00	11.10
90	t	3,3'-Dichlorobenzidine	0.463	0.426	8.0	104	0.00	11.08
91	t	Chrysene	1.338	1.180	11.8	110	0.00	11.14
92	t	bis(2-Ethylhexyl)phthalat	0.868	0.873	-0.6	111	0.00	11.17
93	I	Perylene-d12	1.000	1.000	0.0	119	0.00	12.72
94	t	Di-n-octylphthalate	1.436	1.517	-5.6	115	0.00	11.92
95	t	Benzo[b]fluoranthene	1.337	1.256	6.1	113	0.00	12.31

Initial Calibration Verification

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Sample: E3P5401-ICV5401
Lab FileID: 3P114387.D

96	t	Benzo[k]fluoranthene	1.274	1.176	7.7	112	0.00	12.34
97	t	Benzo[a]pyrene	1.168	1.101	5.7	111	0.00	12.66
98	t	Indeno[1,2,3-cd]pyrene	1.263	1.222	3.2	114	0.00	14.04
99	t	Dibenz(a,h)acridine	0.859	0.849	1.2	114	0.00	13.73
100	t	Dibenz[a,h]anthracene	1.080	1.031	4.5	112	0.00	14.07
101	t	7,12-Dimethylbenz(a)anthr	0.433	0.375	13.4	99	0.00	12.31
102	t	Benzo[g,h,i]perylene	1.019	0.962	5.6	113	0.00	14.41

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p113993a.D M3P5401LVI.M Fri Oct 10 18:07:23 2025

Continuing Calibration Summary

Job Number: JE23960 **Sample:** E3P5428-CC5401
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P115110.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...25\e3p5428\3p115110.d Vial: 2
Acq On : 26 Nov 2025 4:15 pm Operator: thomasl
Sample : cc5401-10 Inst : GCMS3P
Misc : op69236,e3p5428,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ods\M3P5401LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Thu Nov 27 07:26:20 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	101	0.00	4.53
2	t	1,4-Dioxane	0.552	0.508	8.0	96	0.00	2.49
3	t	Pyridine	1.529	1.413	7.6	93	0.00	2.76
4	t	N-Nitrosodimethylamine	0.813	0.769	5.4	94	0.00	2.72
5	S	2-Fluorophenol	1.280	1.258	1.7	101	0.00	3.68
6	t	Indene	2.309	2.197	4.9	99	0.00	4.69
7	t	Cumene	3.163	3.051	3.5	98	0.00	4.01
8	S	Phenol-d5	1.641	1.545	5.9	98	0.00	4.30
9	t	Phenol	1.734	1.794	-3.5	109	0.00	4.31
10		Aniline	1.975	1.914	3.1	97	0.00	4.32
11	t	bis(2-Chloroethyl)ether	1.318	1.204	8.6	99	0.00	4.36
12	t	2-Chlorophenol	1.394	1.397	-0.2	104	0.00	4.40
13	t	Decane	1.569	1.249	20.4#	84	0.00	4.42
14	t	1,3-Dichlorobenzene	1.552	1.544	0.5	102	0.00	4.49
15	t	1,4-Dichlorobenzene	1.586	1.582	0.3	101	0.00	4.54
16	t	Benzyl alcohol	0.829	0.835	-0.7	103	0.00	4.62
17	t	1,2-Dichlorobenzene	1.505	1.485	1.3	101	0.00	4.64
18	t	Acetophenone	1.979	1.884	4.8	102	0.00	4.78
19	t	2-Methylphenol	1.295	1.178	9.0	97	0.00	4.69
20	t	2,2'-oxybis(1-Chloropropa	2.018	1.564	22.5#	84	0.00	4.70
21	t	3&4-Methylphenol	1.316	1.207	8.3	97	0.00	4.79
22	t	n-Nitroso-di-n-propylamin	1.016	0.913	10.1	95	0.00	4.78
23	t	Hexachloroethane	0.538	0.572	-6.3	113	0.00	4.85
24	I	Naphthalene-d8	1.000	1.000	0.0	102	0.00	5.34
25	S	Nitrobenzene-d5	0.392	0.383	2.3	100	0.00	4.88
26	t	Nitrobenzene	0.400	0.383	4.3	100	0.00	4.90
27	t	Quinoline	0.681	0.664	2.5	106	0.00	5.58
28	t	Isophorone	0.704	0.664	5.7	97	0.00	5.05
29	t	2-Nitrophenol	0.170	0.200	-17.6	115	0.00	5.10
30	t	2,4-Dimethylphenol	0.379	0.369	2.6	102	0.00	5.12
		----------	True	Calc.	% Drift	----------		
31	t	Benzoic acid	10.000	12.675	-26.8#	138	0.00	5.19
		----------	AvgRF	CCRF	% Dev	----------		
32	t	bis(2-Chloroethoxy)methan	0.448	0.412	8.0	97	0.00	5.18
33	t	2,4-Dichlorophenol	0.302	0.312	-3.3	105	0.00	5.25
34	t	2,6-Dichlorophenol	0.300	0.310	-3.3	108	0.00	5.39
35		1,3,5-Trichlorobenzene	0.359	0.372	-3.6	109	0.00	5.10
36	t	1,2,4-Trichlorobenzene	0.331	0.332	-0.3	106	0.00	5.30
37		1,2,3-Trichlorobenzene	0.335	0.339	-1.2	106	0.00	5.44

Continuing Calibration Summary

Job Number: JE23960 **Sample:** E3P5428-CC5401
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P115110.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

38	t	Naphthalene	1.053	0.988	6.2	98	0.00	5.35
39	t	4-Chloroaniline	0.410	0.431	-5.1	105	0.00	5.38
40	t	2,3-Dichloroaniline	0.369	0.357	3.3	105	0.00	6.00
41	t	Hydroquinone	0.255	0.354	-38.8#	122	0.00	5.61
42	t	Hexachlorobutadiene	0.196	0.203	-3.6	107	0.00	5.42
43	t	4-Chloro-3-methylphenol	0.304	0.296	2.6	102	0.00	5.70
44	t	2-Methylnaphthalene	0.577	0.553	4.2	100	0.00	5.80
45	t	1-Methylnaphthalene	0.624	0.600	3.8	102	0.00	5.87
46	I	Acenaphthene-d10	1.000	1.000	0.0	105	0.00	6.57
47	t	Hexachlorocyclopentadiene	0.457	0.519	-13.6	117	0.00	5.90
48	t	1,2,4,5-Tetrachlorobenzen	0.667	0.679	-1.8	112	0.00	5.91
49	t	2,4,6-Trichlorophenol	0.406	0.436	-7.4	111	0.00	6.00
50	t	2,4,5-Trichlorophenol	0.455	0.483	-6.2	112	0.00	6.03
51	S	2-Fluorobiphenyl	1.485	1.414	4.8	105	0.00	6.05
52	t	2-Chloronaphthalene	1.284	1.250	2.6	106	0.00	6.15
53	t	Biphenyl	1.629	1.559	4.3	104	0.00	6.13
54	t	2-Nitroaniline	0.374	0.362	3.2	103	0.00	6.22
55	t	Dimethylphthalate	1.418	1.422	-0.3	110	0.00	6.35
56	t	Acenaphthylene	2.073	2.013	2.9	105	0.00	6.46
57	t	2,6-Dinitrotoluene	0.270	0.310	-14.8	120	0.00	6.41
58	t	3-Nitroaniline	0.302	0.344	-13.9	115	0.00	6.54
59	t	Acenaphthene	1.372	1.265	7.8	104	0.00	6.60
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	20.000	28.812	-44.1#	162	0.00	6.63
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.174	0.190	-9.2	111	0.00	6.68
62	t	Dibenzofuran	1.819	1.729	4.9	106	0.00	6.74
63	t	2,4-Dinitrotoluene	0.353	0.420	-19.0	119	0.00	6.73
64		2,3,4,6-Tetrachlorophenol	0.341	0.396	-16.1	116	0.00	6.84
65	t	Diethylphthalate	1.435	1.451	-1.1	112	0.00	6.93
66	t	Fluorene	1.439	1.399	2.8	106	0.00	7.04
67	t	4-Chlorophenyl-phenylethe	0.673	0.665	1.2	109	0.00	7.03
68	t	4-Nitroaniline	0.308	0.315	-2.3	104	0.00	7.06
69	I	Phenanthrene-d10	1.000	1.000	0.0	110	0.00	7.93
70	t	4,6-Dinitro-2-methylpheno	0.096	0.158	-64.6#	165	0.00	7.08
71	t	n-Nitrosodiphenylamine	0.689	0.660	4.2	107	0.00	7.14
72	t	Pentachloronitrobenzene	0.038	0.046#	-21.1#	131	0.00	7.75
73	t	1,2-Diphenylhydrazine	0.878	0.766	12.8	97	0.00	7.18
74	S	2,4,6-Tribromophenol	0.111	0.124	-11.7	120	0.00	7.26
75	t	4-Bromophenyl-phenylether	0.238	0.246	-3.4	116	0.00	7.49
76	t	Hexachlorobenzene	0.268	0.277	-3.4	117	0.00	7.54
77	t	Pentachlorophenol	0.151	0.191	-26.5#	125	0.00	7.74
78	t	Phenanthrene	1.211	1.156	4.5	111	0.00	7.96
79	t	Anthracene	1.197	1.188	0.8	110	0.00	8.01
80	t	Carbazole	1.083	1.083	0.0	112	0.00	8.18
81	t	Di-n-butylphthalate	1.293	1.383	-7.0	117	0.00	8.56
82	t	Fluoranthene	1.237	1.297	-4.9	118	0.00	9.25
83	t	Octadecane	0.641	0.531	17.2	90	0.00	7.81
84	I	Chrysene-d12	1.000	1.000	0.0	121	0.00	10.93
85	t	Benzidine	0.875	1.318	-50.6#	71	0.00	9.42
86	t	Pyrene	1.555	1.485	4.5	118	0.00	9.50
87	S	Terphenyl-d14	1.143	1.124	1.7	120	0.00	9.70
88	t	Butylbenzylphthalate	0.615	0.666	-8.3	124	0.00	10.29
89	t	Benzo[a]anthracene	1.393	1.376	1.2	123	0.00	10.91
90	t	3,3'-Dichlorobenzidine	0.463	0.511	-10.4	126	0.00	10.91

Continuing Calibration Summary

Job Number: JE23960 **Sample:** E3P5428-CC5401
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P115110.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

91	t	Chrysene	1.338	1.277	4.6	120	0.00	10.96
92	t	bis(2-Ethylhexyl)phthalat	0.868	0.937	-7.9	121	0.00	10.99
93	I	Perylene-d12	1.000	1.000	0.0	127	0.00	12.53
94	t	Di-n-octylphthalate	1.436	1.541	-7.3	125	0.00	11.75
95	t	Benzo[b]fluoranthene	1.337	1.338	-0.1	128	0.00	12.13
96	t	Benzo[k]fluoranthene	1.274	1.133	11.1	115	0.00	12.16
97	t	Benzo[a]pyrene	1.168	1.176	-0.7	127	0.00	12.47
98	t	Indeno[1,2,3-cd]pyrene	1.263	1.837	-45.4#	183	0.00	13.78
99	t	Dibenz(a,h)acridine	0.859	1.256	-46.2#	180	0.00	13.49
100	t	Dibenz[a,h]anthracene	1.080	1.510	-39.8#	176	0.00	13.80
101	t	7,12-Dimethylbenz(a)anthr	0.433	0.502	-15.9	142	0.00	12.13
102	t	Benzo[g,h,i]perylene	1.019	1.518	-49.0#	190	0.00	14.13

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p115110.d M3P5401LVI.M Thu Nov 27 07:28:54 2025

Continuing Calibration Summary

Job Number: JE23960 **Sample:** E3P5428-CC5394
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P115111.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...25\e3p5428\3p115111.d Vial: 3
Acq On : 26 Nov 2025 4:35 pm Operator: thomasl
Sample : cc5394-10 Inst : GCMS3P
Misc : op69236,e3p5428,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ods\M3P5401LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Thu Nov 27 07:37:42 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	109	0.00	4.53
104	Benzaldehyde	1.183	1.009	14.7	98	0.00	4.25
105	Phenanthrene-d10a	1.000	1.000	0.0	107	0.00	7.93
106	Atrazine	0.088	0.083	5.7	106	0.00	7.65
107	Naphthalene-d8a	1.000	1.000	0.0	107	0.00	5.34
108 t	Caprolactam	0.158	0.132	16.5	87	0.00	5.61

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p115111.d M3P5401LVI.M Thu Nov 27 07:40:44 2025

Continuing Calibration Summary

Job Number: JE23960 **Sample:** E3P5428-CC5401
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 3P115112.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...25\e3p5428\3p115112.d Vial: 4
Acq On : 26 Nov 2025 4:55 pm Operator: thomasl
Sample : cc5401-0.4 Inst : GCMS3P
Misc : op69236,e3p5428,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ods\M3P5401LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Thu Nov 27 07:37:42 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 100% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1,4-Dichlorobenzene-d4	1.000	1.000	0.0	89	0.00	4.53
13	t	Decane	1.569	1.443	8.0	77	0.00	4.41
20	t	2,2'-oxybis(1-Chloropropa	2.018	1.916	5.1	77	0.00	4.70

(#) = Out of Range SPCC's out = 0 CCC's out = 0
3p113989a.D M3P5401LVI.M Thu Nov 27 07:46:03 2025

Initial Calibration Summary

Job Number: JE23960 **Sample:** E5P5020-ICC5020
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P105995.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Response Factor Report GCMS5P

Method : C:\MSDCHEM\1\METHODS\M5P5020LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Thu Nov 06 10:59:24 2025
Response via : Initial Calibration

Calibration Files
10 =5p105995.D 20 =5p105997.D 16 =5p105996.D 5 =5p105994.D
2 =5p105993.D 1 =5p105992.D 0.4 =5p105991.D 0.2 =5p105990.D

Compound	10	20	16	5	2	1	0.4	0.2	Avg	%RSD
1) 1,4-dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.531	0.556	0.553	0.540	0.520	0.476	0.520	0.665	0.545	10.02
3) Pyridine	1.409	1.472	1.521	1.434	1.251	1.183	1.123		1.342	11.51
4) N-Nitrosodim	0.799	0.853	0.845	0.784	0.742	0.663	0.609	0.626	0.740	13.06
5) 2-Fluorophen	1.246	1.368	1.341	1.285	1.249	1.129	1.040	1.224	1.235	8.71
6) Indene	2.162	1.995	2.056	2.240	2.298	2.215	2.218	2.548	2.217	7.52
7) Cumene	3.031	3.033	2.973	3.060	2.945	2.696	2.651	2.989	2.922	5.41
8) Phenol-d5	1.584	1.626	1.621	1.565	1.523	1.371	1.526	1.477	1.537	5.46
9) Phenol	1.639	1.625	1.673	1.692	1.628	1.528	1.560	1.630	1.622	3.35
10) Aniline	1.981	1.931	1.972	1.969	1.849	1.807	1.749	1.757	1.877	5.23
11) bis(2-Chloro	1.165	1.167	1.200	1.215	1.217	1.190	1.254	1.294	1.213	3.60
12) 2-Chlorophen	1.376	1.337	1.353	1.395	1.379	1.288	1.415	1.300	1.355	3.29
13) Decane	1.320	1.271	1.313	1.308	1.481	1.407	1.422	1.531	1.382	6.72
14) 1,3-Dichloro	1.577	1.520	1.537	1.614	1.637	1.484	1.477	1.647	1.562	4.30
15) 1,4-Dichloro	1.550	1.505	1.504	1.562	1.612	1.490	1.534	1.646	1.550	3.54
16) Benzyl alcoh	0.831	0.828	0.801	0.823	0.829	0.784	0.846	0.887	0.828	3.68
17) 1,2-Dichloro	1.492	1.437	1.469	1.541	1.575	1.462	1.516	1.608	1.512	3.89
18) Acetophenone	1.744	1.653	1.682	1.854	1.909	1.886	1.989	2.127	1.855	8.60
19) 2-Methylphen	1.149	1.094	1.121	1.182	1.186	1.042	1.219	1.323	1.164	7.33
20) 2,2'-oxybis(	1.760	1.592	1.660	1.839	1.926	1.905	1.979	2.167	1.853	9.93
21) 3&4-Methylph	1.215	1.167	1.110	1.247	1.260	1.186	1.239	1.359	1.223	6.02
22) n-Nitroso-di	0.861	0.803	0.807	0.904	0.936	0.960	1.026	1.133	0.928	12.07
23) Hexachloroet	0.559	0.554	0.555	0.575	0.570	0.534	0.574	0.572	0.562	2.53
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.323	0.322	0.300	0.319	0.316	0.287	0.303	0.325	0.312	4.40
26) Nitrobenzene	0.303	0.298	0.288	0.300	0.287	0.275	0.271	0.290	0.289	4.00
27) Quinoline	0.728	0.708	0.722	0.721	0.745	0.711	0.667	0.732	0.717	3.26
28) Isophorone	0.672	0.642	0.652	0.666	0.643	0.646	0.708	0.680	0.664	3.42
29) 2-Nitropheno	0.157	0.169	0.165	0.149	0.139	0.125	0.126	0.136	0.146	11.73
30) 2,4-Dimethyl	0.349	0.318	0.325	0.349	0.349	0.343	0.338	0.374	0.343	4.99
31) Benzoic acid	0.206	0.219	0.222	0.208	0.183	0.153	0.149		0.191	15.86
32) bis(2-Chloro	0.413	0.368	0.405	0.411	0.431	0.419	0.438	0.468	0.419	6.88
33) 2,4-Dichloro	0.314	0.310	0.312	0.314	0.320	0.287	0.309	0.334	0.312	4.17
34) 2,6-Dichloro	0.296	0.289	0.283	0.302	0.305	0.266	0.326	0.307	0.297	6.05
35) 1,3,5-Trichl	0.370	0.356	0.360	0.374	0.377	0.360	0.398	0.421	0.377	5.88
36) 1,2,4-Trichl	0.337	0.328	0.327	0.341	0.347	0.333	0.335	0.348	0.337	2.40
37) 1,2,3-Trichl	0.332	0.319	0.315	0.334	0.346	0.328	0.333	0.363	0.334	4.58
38) Naphthalene	1.026	0.964	0.995	1.116	1.077	0.921	1.096	1.180	1.047	8.21
39) 4-Chloroanil	0.425	0.409	0.416	0.426	0.411	0.380	0.375	0.344	0.398	7.32
40) 2,3-Dichloro	0.378	0.359	0.372	0.384	0.403	0.359	0.390	0.428	0.384	6.02
41) Hydroquinone	0.305	0.258	0.267	0.296	0.267	0.207			0.267	12.96
42) Hexachlorobu	0.210	0.202	0.203	0.208	0.216	0.205	0.215	0.240	0.212	5.84
43) 4-Chloro-3-m	0.288	0.281	0.289	0.281	0.283	0.254	0.288	0.268	0.279	4.40
44) 2-Methylnaph	0.600	0.576	0.592	0.614	0.601	0.591	0.605	0.687	0.608	5.53
45) 1-Methylnaph	0.642	0.607	0.625	0.644	0.672	0.609	0.660	0.776	0.654	8.30

Initial Calibration Summary

Job Number: JE23960 **Sample:** E5P5020-ICC5020
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P105995.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

46)	I Acenaphthene-d10	----------ISTD----------									
47)	Hexachlorocy	0.420	0.438	0.424	0.420	0.419	0.370	0.398	0.428	0.415	5.11
48)	1,2,4,5-Tetr	0.622	0.609	0.602	0.668	0.679	0.660	0.720	0.767	0.666	8.53
49)	2,4,6-Trichl	0.404	0.422	0.400	0.416	0.414	0.401	0.436	0.437	0.416	3.51
50)	2,4,5-Trichl	0.413	0.408	0.418	0.443	0.459	0.398	0.404	0.440	0.423	5.13
51)	2-Fluorobiph	1.344	1.323	1.323	1.408	1.529	1.430	1.611	1.659	1.454	9.05
52)	2-Chloronaph	1.126	1.091	1.092	1.187	1.298	1.220	1.323	1.379	1.214	9.06
53)	Biphenyl	1.493	1.459	1.439	1.580	1.655	1.570	1.650	1.868	1.589	8.74
54)	2-Nitroanili	0.259	0.288	0.279	0.270	0.248	0.238	0.234	0.223	0.255	9.05
55)	Dimethylphth	1.391	1.406	1.366	1.451	1.528	1.399	1.577	1.638	1.469	6.78
56)	Acenaphthyle	1.993	1.942	1.977	2.122	2.176	2.029	2.267	2.353	2.107	7.05
57)	2,6-Dinitrot	0.241	0.267	0.251	0.235	0.216	0.197	0.219	0.219	0.230	9.66
58)	3-Nitroanili	0.287	0.308	0.296	0.261	0.247	0.187			0.264	16.71
59)	Acenaphthene	1.199	1.188	1.186	1.275	1.309	1.231	1.360	1.515	1.283	8.77
60)	2,4-Dinitrop	0.121	0.140	0.130	0.115	0.099	0.087	0.071		0.109	22.33
	---- Quadratic regression ---- Coefficient = 0.9998										
	Response Ratio = -0.00393 + 0.10580 *A + 0.00674 *A^2										
61)	4-Nitropheno	0.140	0.148	0.139	0.145	0.127	0.099			0.133	13.60
62)	Dibenzofuran	1.605	1.639	1.638	1.812	1.851	1.714	1.892	1.963	1.764	7.58
63)	2,4-Dinitrot	0.323	0.357	0.339	0.309	0.276	0.245	0.226	0.270	0.293	15.84
64)	2,3,4,6-Tetr	0.382	0.399	0.384	0.394	0.393	0.357	0.354	0.356	0.377	4.98
65)	Diethylphtha	1.421	1.426	1.387	1.524	1.553	1.429	1.554	1.646	1.492	6.04
66)	Fluorene	1.360	1.322	1.285	1.466	1.518	1.432	1.512	1.625	1.440	7.90
67)	4-Chlorophen	0.672	0.694	0.673	0.701	0.728	0.675	0.721	0.736	0.700	3.71
68)	4-Nitroanili	0.277	0.295	0.279	0.274	0.245	0.203			0.262	12.70
69)	I Phenanthrene-d10	----------ISTD----------									
70)	4,6-Dinitro-	0.084	0.090	0.087	0.073	0.074	0.064			0.079	12.56
71)	n-Nitrosodip	0.618	0.582	0.583	0.623	0.670	0.636	0.638	0.684	0.629	5.82
72)	Pentachloron	0.042	0.044	0.044	0.039	0.037	0.038	0.041	0.031	0.039#	11.38
73)	1,2-Diphenyl	0.643	0.613	0.625	0.678	0.678	0.691	0.692	0.795	0.677	8.35
74)	2,4,6-Tribro	0.140	0.142	0.141	0.134	0.137	0.125	0.134	0.122	0.134	5.62
75)	4-Bromopheny	0.251	0.253	0.252	0.247	0.262	0.236	0.250	0.279	0.254	4.91
76)	Hexachlorobe	0.280	0.285	0.291	0.296	0.294	0.278	0.309	0.304	0.292	3.74
77)	Pentachlorop	0.190	0.193	0.191	0.182	0.170	0.145	0.135	0.141	0.168	14.45
78)	Phenanthrene	1.097	1.030	1.028	1.093	1.107	1.065	1.179	1.283	1.110	7.62
79)	Anthracene	1.104	1.025	1.046	1.109	1.177	1.100	1.203	1.185	1.119	5.83
80)	Carbazole	1.050	0.996	0.990	1.034	1.077	1.015	1.038	1.072	1.034	3.13
81)	Di-n-butylph	1.392	1.359	1.336	1.357	1.364	1.262	1.250	1.350	1.334	3.80
82)	Fluoranthene	1.363	1.296	1.300	1.340	1.393	1.272	1.226	1.419	1.326	4.86
83)	Octadecane	0.490	0.468	0.479	0.501	0.518	0.467	0.486	0.482	0.486	3.47
84)	I Chrysene-d12	----------ISTD----------									
85)	Benzidine	0.527	1.247	1.448	0.397	0.239	0.165	0.100		0.589	91.77
86)	Pyrene	1.474	1.420	1.428	1.516	1.528	1.391	1.438	1.568	1.470	4.20
87)	Terphenyl-d1	1.101	1.212	1.169	1.172	1.196	1.105	1.186	1.220	1.170	3.84
88)	Butylbenzylp	0.630	0.702	0.652	0.612	0.567	0.496	0.496	0.513	0.583	13.31
89)	Benzo[a]anth	1.357	1.360	1.340	1.386	1.411	1.315	1.409	1.611	1.399	6.59
90)	3,3'-Dichlor	0.506	0.569	0.537	0.496	0.437	0.307	0.166		0.431	33.54
	---- Quadratic regression ---- Coefficient = 0.9995										
	Response Ratio = -0.01697 + 0.48273 *A + 0.03504 *A^2										
91)	Chrysene	1.182	1.154	1.165	1.223	1.277	1.133	1.299	1.367	1.225	6.71
92)	bis(2-Ethylh	0.873	0.912	0.866	0.873	0.828	0.721	0.720	0.715	0.814	10.04
93)	I Perylene-d12	----------ISTD----------									
94)	Di-n-octylph	1.457	1.493	1.472	1.397	1.354	1.121	1.121	1.128	1.318	12.65
95)	Benzo[b]fluo	1.243	1.316	1.264	1.327	1.336	1.267	1.300	1.372	1.303	3.32

Initial Calibration Summary

Job Number: JE23960 **Sample:** E5P5020-ICC5020
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P105995.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

96)	Benzo[k]fluo	1.164	1.049	1.073	1.190	1.298	1.203	1.234	1.364	1.197	8.82
97)	Benzo[a]pyre	1.147	1.175	1.166	1.049	1.180	1.072	1.139	1.206	1.142	4.77
98)	Indeno[1,2,3	1.339	1.363	1.371	1.339	1.365	1.205	1.222	1.367	1.321	5.15
99)	Dibenz(a,h)a	0.931	0.994	0.997	0.931	0.918	0.816	0.832	0.875	0.912	7.39
100)	Dibenz[a,h]a	1.071	1.081	1.104	1.092	1.124	1.027	1.004	1.121	1.078	3.98
101)	7,12-Dimethy	0.461	0.434	0.430	0.459	0.474	0.418	0.434	0.430	0.442	4.38
102)	Benzo[g,h,i]	1.052	1.083	1.086	1.064	1.067	0.984	1.005	1.035	1.047	3.51
103)	1,4-Dichlorobenzene-d	ISTD									
104)	Benzaldehyde	0.969	1.056	1.039	1.066	0.971	0.965	1.092	1.131	1.036	6.02
105)	Phenanthrene-d10a	ISTD									
106)	Atrazine	0.092	0.099	0.094	0.093	0.091	0.089	0.080	0.085	0.090	6.25
107)	Naphthalene-d8a	ISTD									
108)	Caprolactam	0.138	0.154	0.155	0.145	0.143	0.125	0.168	0.131	0.145	9.54
111)	Phenanthrene-d10b	ISTD									
112)	1-chlorooctа	0.329	0.334	0.323	0.350	0.318	0.316	0.296	0.304	0.321	5.32
113)	o-terphenyl	0.547	0.581	0.568	0.599	0.591	0.598	0.577	0.577	0.580	2.95

(#) = Out of Range ### Number of calibration levels exceeded format ###

M5P5020LVI.M Thu Nov 06 11:04:53 2025

Initial Calibration Verification

Job Number: JE23960 **Sample:** E5P5020-ICV5020
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106006.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E5P5020\5p106006.D Vial: 19
Acq On : 6 Nov 2025 12:28 am Operator: thomasl
Sample : icv5020-10 Inst : GCMS5P
Misc : op68756,e5p5020,1.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P5020LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Thu Nov 06 10:59:24 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		1,4-dichlorobenzene-d4	1.000	1.000	0.0	124	0.00	4.53
2	t	1,4-Dioxane	0.545	0.476	12.7	111	0.00	2.80
3	t	Pyridine	1.342	1.332	0.7	117	0.00	3.02
4	t	N-Nitrosodimethylamine	0.740	0.762	-3.0	118	0.00	2.99
6	t	Indene	2.217	1.971	11.1	113	0.00	4.68
7	t	Cumene	2.922	2.790	4.5	114	0.00	4.09
9	t	Phenol	1.622	1.554	4.2	117	0.00	4.31
10		Aniline	1.877	1.894	-0.9	118	0.00	4.35
11	t	bis(2-Chloroethyl)ether	1.213	1.133	6.6	120	0.00	4.37
12	t	2-Chlorophenol	1.355	1.317	2.8	118	0.00	4.42
13	t	Decane	1.382	1.257	9.0	118	0.00	4.43
14	t	1,3-Dichlorobenzene	1.562	1.414	9.5	111	0.00	4.50
15	t	1,4-Dichlorobenzene	1.550	1.410	9.0	112	0.00	4.54
16	t	Benzyl alcohol	0.828	0.781	5.7	116	0.00	4.60
17	t	1,2-Dichlorobenzene	1.512	1.375	9.1	114	0.00	4.63
18	t	Acetophenone	1.855	1.615	12.9	114	0.00	4.75
19	t	2-Methylphenol	1.164	1.080	7.2	116	0.00	4.66
20	t	2,2'-oxybis(1-Chloropropa	1.853	1.596	13.9	112	0.00	4.68
21	t	3&4-Methylphenol	1.223	1.157	5.4	118	0.00	4.74
22	t	n-Nitroso-di-n-propylamin	0.928	0.809	12.8	116	0.00	4.75
23	t	Hexachloroethane	0.562	0.506	10.0	112	0.00	4.82
24	I	Naphthalene-d8	1.000	1.000	0.0	123	0.00	5.25
26	t	Nitrobenzene	0.289	0.279	3.5	113	0.00	4.85
27	t	Quinoline	0.717	0.666	7.1	113	0.00	5.47
28	t	Isophorone	0.664	0.621	6.5	114	0.00	4.99
29	t	2-Nitrophenol	0.146	0.150	-2.7	117	0.00	5.03
30	t	2,4-Dimethylphenol	0.343	0.324	5.5	114	0.00	5.04
31	t	Benzoic acid	0.191	0.198	-3.7	118	0.00	5.09
32	t	bis(2-Chloroethoxy)methan	0.419	0.358	14.6	107	0.00	5.09
33	t	2,4-Dichlorophenol	0.312	0.315	-1.0	123	0.00	5.16
34	t	2,6-Dichlorophenol	0.297	0.284	4.4	118	0.00	5.30
35		1,3,5-Trichlorobenzene	0.377	0.339	10.1	113	0.00	5.04
36	t	1,2,4-Trichlorobenzene	0.337	0.322	4.5	118	0.00	5.22
37		1,2,3-Trichlorobenzene	0.334	0.309	7.5	115	0.00	5.35
38	t	Naphthalene	1.047	0.951	9.2	114	0.00	5.27
39	t	4-Chloroaniline	0.398	0.398	0.0	116	0.00	5.29
40	t	2,3-Dichloroaniline	0.384	0.349	9.1	113	0.00	5.86
41	t	Hydroquinone	0.267	0.176	34.1#	71	0.02	5.48

Initial Calibration Verification

Job Number: JE23960 **Sample:** E5P5020-ICV5020
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106006.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

42	t	Hexachlorobutadiene	0.212	0.195	8.0	114	0.00	5.34
43	t	4-Chloro-3-methylphenol	0.279	0.279	0.0	119	0.00	5.56
44	t	2-Methylnaphthalene	0.608	0.549	9.7	113	0.00	5.68
45	t	1-Methylnaphthalene	0.654	0.572	12.5	110	0.00	5.75
46	I	Acenaphthene-d10	1.000	1.000	0.0	120	0.00	6.39
47	t	Hexachlorocyclopentadiene	0.415	0.396	4.6	114	0.00	5.78
48	t	1,2,4,5-Tetrachlorobenzen	0.666	0.580	12.9	112	0.00	5.79
49	t	2,4,6-Trichlorophenol	0.416	0.395	5.0	118	0.00	5.86
50	t	2,4,5-Trichlorophenol	0.423	0.408	3.5	119	0.00	5.88
52	t	2-Chloronaphthalene	1.214	1.075	11.4	115	0.00	6.00
53	t	Biphenyl	1.589	1.389	12.6	112	0.00	5.98
54	t	2-Nitroaniline	0.255	0.260	-2.0	121	0.00	6.07
55	t	Dimethylphthalate	1.469	1.329	9.5	115	0.00	6.18
56	t	Acenaphthylene	2.107	1.918	9.0	116	0.00	6.29
57	t	2,6-Dinitrotoluene	0.230	0.230	0.0	115	0.00	6.23
58	t	3-Nitroaniline	0.264	0.266	-0.8	112	0.00	6.36
59	t	Acenaphthene	1.283	1.145	10.8	115	0.00	6.41
		----------	True	Calc.	% Drift	----------		
60	t	2,4-Dinitrophenol	20.000	19.395	3.0	117	0.00	6.43
		----------	AvgRF	CCRF	% Dev	----------		
61	t	4-Nitrophenol	0.133	0.136	-2.3	117	0.00	6.46
62	t	Dibenzofuran	1.764	1.575	10.7	118	0.00	6.54
63	t	2,4-Dinitrotoluene	0.293	0.302	-3.1	113	0.00	6.53
64		2,3,4,6-Tetrachlorophenol	0.377	0.374	0.8	118	0.00	6.63
65	t	Diethylphthalate	1.492	1.344	9.9	114	0.00	6.70
66	t	Fluorene	1.440	1.291	10.3	114	0.00	6.80
67	t	4-Chlorophenyl-phenylethe	0.700	0.642	8.3	115	0.00	6.80
68	t	4-Nitroaniline	0.262	0.262	0.0	114	0.00	6.83
69	I	Phenanthrene-d10	1.000	1.000	0.0	122	0.00	7.58
70	t	4,6-Dinitro-2-methylpheno	0.079	0.083	-5.1	120	0.00	6.84
71	t	n-Nitrosodiphenylamine	0.629	0.584	7.2	115	0.00	6.89
72	t	Pentachloronitrobenzene	0.039	0.041#	-5.1	117	0.00	7.43
73	t	1,2-Diphenylhydrazine	0.677	0.609	10.0	116	0.00	6.92
75	t	4-Bromophenyl-phenylether	0.254	0.231	9.1	112	0.00	7.19
76	t	Hexachlorobenzene	0.292	0.274	6.2	119	0.00	7.25
77	t	Pentachlorophenol	0.168	0.174	-3.6	112	0.00	7.41
78	t	Phenanthrene	1.110	1.000	9.9	111	0.00	7.61
79	t	Anthracene	1.119	1.016	9.2	112	0.00	7.65
80	t	Carbazole	1.034	0.952	7.9	111	0.00	7.79
81	t	Di-n-butylphthalate	1.334	1.327	0.5	116	0.00	8.09
82	t	Fluoranthene	1.326	1.280	3.5	115	0.00	8.68
83	t	Octadecane	0.486	0.451	7.2	112	0.00	7.47
84	I	Chrysene-d12	1.000	1.000	0.0	120	0.00	10.06
85	t	Benzidine	0.589	0.554	5.9	126	0.00	8.81
86	t	Pyrene	1.470	1.339	8.9	109	0.00	8.90
88	t	Butylbenzylphthalate	0.583	0.601	-3.1	114	0.00	9.52
89	t	Benzo[a]anthracene	1.399	1.270	9.2	112	0.00	10.05
		----------	True	Calc.	% Drift	----------		
90	t	3,3'-Dichlorobenzidine	10.000	9.326	6.7	113	0.00	10.03
		----------	AvgRF	CCRF	% Dev	----------		

Initial Calibration Verification

Job Number: JE23960 **Sample:** E5P5020-ICV5020
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106006.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

91	t	Chrysene	1.225	1.101	10.1	112	0.00	10.08
92	t	bis(2-Ethylhexyl)phthalat	0.814	0.819	-0.6	113	0.00	10.08
93	I	Perylene-d12	1.000	1.000	0.0	117	0.00	11.45
94	t	Di-n-octylphthalate	1.318	1.432	-8.6	115	0.00	10.69
95	t	Benzo[b]fluoranthene	1.303	1.199	8.0	113	0.00	11.06
96	t	Benzo[k]fluoranthene	1.197	1.079	9.9	108	0.00	11.09
97	t	Benzo[a]pyrene	1.142	1.047	8.3	107	0.00	11.39
98	t	Indeno[1,2,3-cd]pyrene	1.321	1.238	6.3	108	0.00	12.73
99	t	Dibenz(a,h)acridine	0.912	0.861	5.6	108	0.00	12.42
100	t	Dibenz[a,h]anthracene	1.078	0.999	7.3	109	0.00	12.76
101	t	7,12-Dimethylbenz(a)anthr	0.442	0.377	14.7	96	0.00	11.06
102	t	Benzo[g,h,i]perylene	1.047	1.011	3.4	112	0.00	13.11

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p106003A.D M5P5020LVI.M Thu Nov 06 11:05:07 2025

Initial Calibration Verification

Job Number: JE23960 **Sample:** E5P5020-ICV5020
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106007.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E5P5020\5p106007.D Vial: 20
Acq On : 6 Nov 2025 12:49 am Operator: thomasl
Sample : icv5020-10 Inst : GCMS5P
Misc : op68756,e5p5020,1.0,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P5020LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Thu Nov 06 10:59:24 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

	Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103	1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	97	0.00	4.53
104	Benzaldehyde	1.036	1.065	-2.8	107	0.00	4.29
105	Phenanthrene-d10a	1.000	1.000	0.0	102	0.00	7.58
106	Atrazine	0.090	0.094	-4.4	103	0.00	7.32
107	Naphthalene-d8a	1.000	1.000	0.0	91	0.00	5.26
108 t	Caprolactam	0.145	0.157	-8.3	104	0.00	5.50

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p106003A.D M5P5020LVI.M Thu Nov 06 11:05:09 2025

Initial Calibration Summary

Job Number: JE23960 **Sample:** E5P5038-ICC5038
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106519.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Response Factor Report GCMS5P

Method : C:\MSDCHEM\1\METHODS\M5P5038LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Tue Nov 25 13:26:57 2025
Response via : Initial Calibration

Calibration Files
10 =5p106519.D 20 =5p106521.D 16 =5p106520.D 5 =55p106518.D
2 =5p106517.D 1 =5p106516.D 0.4 =5p106515.D 0.2 =5p106514.D

Compound	10	20	16	5	2	1	0.4	0.2	Avg	%RSD
1) 1,4-dichlorobenzene-d	ISTD									
2) 1,4-Dioxane	0.539	0.549	0.543	0.523	0.532	0.495	0.586	0.644	0.551	8.22
3) Pyridine	1.466	1.482	1.429	1.348	1.226	1.046	0.948		1.278	16.60
4) N-Nitrosodim	0.812	0.834	0.825	0.753	0.685	0.646	0.578		0.733	13.52
5) 2-Fluorophen	1.288	1.298	1.284	1.153	1.160	1.103	1.073	1.145	1.188	7.49
6) Indene	2.141	1.921	1.913	2.120	2.182	2.026	2.067	2.323	2.087	6.55
7) Cumene	2.874	2.702	2.819	2.728	2.780	2.610	2.839	2.693	2.756	3.20
8) Phenol-d5	1.571	1.537	1.543	1.483	1.439	1.296	1.238	1.338	1.431	8.77
9) Phenol	1.776	1.671	1.719	1.790	1.781	1.617	1.566	1.606	1.691	5.23
10) Aniline	1.980	1.837	1.888	1.913	1.830	1.682	1.584	1.581	1.787	8.51
11) bis(2-Chloro	1.146	1.053	1.081	1.110	1.198	1.156	1.095	1.278	1.140	6.34
12) 2-Chlorophen	1.330	1.239	1.280	1.344	1.328	1.314	1.186	1.220	1.280	4.58
13) Decane	1.246	1.100	1.139	1.296	1.317	1.293	1.300	1.600	1.287	11.66
14) 1,3-Dichloro	1.498	1.415	1.411	1.488	1.515	1.507	1.487	1.523	1.480	2.94
15) 1,4-Dichloro	1.464	1.400	1.429	1.484	1.542	1.497	1.517	1.523	1.482	3.29
16) Benzyl alcoh	0.824	0.790	0.774	0.781	0.772	0.698	0.673	0.645	0.745	8.56
17) 1,2-Dichloro	1.435	1.337	1.366	1.396	1.450	1.404	1.264	1.637	1.411	7.69
18) Acetophenone	1.758	1.597	1.489	1.745	1.851	1.790	1.667	1.963	1.732	8.53
19) 2-Methylphen	1.138	1.022	1.014	1.122	1.157	1.043	1.113	1.050	1.082	5.21
20) 2,2'-oxybis(	1.656	1.439	1.461	1.684	1.787	1.703	1.926	2.000	1.707	11.62
21) 3&4-Methylph	1.121	1.025	0.974	1.162	1.209	1.140	1.117	1.164	1.114	6.95
22) n-Nitroso-di	0.848	0.776	0.743	0.865	0.863	0.870	0.801	0.969	0.842	8.26
23) Hexachloroet	0.536	0.513	0.516	0.532	0.557	0.537	0.601	0.541	0.542	5.10
24) I Naphthalene-d8	ISTD									
25) Nitrobenzene	0.326	0.308	0.297	0.318	0.309	0.309	0.306	0.314	0.311	2.74
26) Nitrobenzene	0.322	0.306	0.300	0.317	0.312	0.331	0.335	0.346	0.321	4.84
27) Quinoline	0.711	0.687	0.676	0.683	0.697	0.660	0.650	0.654	0.677	3.18
28) Isophorone	0.630	0.614	0.599	0.603	0.585	0.600	0.579	0.554	0.596	3.87
29) 2-Nitropheno	0.196	0.190	0.188	0.178	0.180	0.173	0.167	0.158	0.179	6.94
30) 2,4-Dimethyl	0.333	0.314	0.309	0.323	0.322	0.309	0.314	0.300	0.315	3.16
31) Benzoic acid	0.237	0.250	0.242	0.223	0.196	0.171			0.220	13.89
32) bis(2-Chloro	0.389	0.379	0.363	0.384	0.381	0.378	0.355	0.381	0.376	3.04
33) 2,4-Dichloro	0.315	0.306	0.297	0.309	0.298	0.269	0.282	0.289	0.296	5.11
34) 2,6-Dichloro	0.273	0.286	0.280	0.286	0.295	0.294	0.272	0.281	0.283	3.03
35) 1,3,5-Trichl	0.358	0.342	0.339	0.337	0.353	0.341	0.353	0.339	0.345	2.34
36) 1,2,4-Trichl	0.324	0.317	0.307	0.315	0.301	0.325	0.312	0.337	0.317	3.51
37) 1,2,3-Trichl	0.316	0.304	0.301	0.306	0.334	0.319	0.344	0.348	0.322	5.71
38) Naphthalene	0.907	0.934	0.923	0.966	0.981	0.983	1.007	1.055	0.970	4.98
39) 4-Chloroanil	0.386	0.400	0.390	0.385	0.372	0.343	0.322	0.290	0.361	10.72
40) 2,3-Dichloro	0.346	0.348	0.336	0.348	0.352	0.363	0.370	0.340	0.350	3.19
41) Hydroquinone	0.336	0.333	0.334	0.320	0.321	0.295	0.265	0.240	0.306	11.71
42) Hexachlorobu	0.192	0.194	0.185	0.196	0.192	0.187	0.188	0.217	0.194	5.21
43) 4-Chloro-3-m	0.257	0.280	0.272	0.267	0.264	0.259	0.265	0.250	0.264	3.50
44) 2-Methylnaph	0.571	0.556	0.544	0.559	0.568	0.549	0.547	0.511	0.551	3.38
45) 1-Methylnaph	0.610	0.568	0.567	0.589	0.602	0.574	0.631	0.621	0.595	4.12

Initial Calibration Summary

Job Number: JE23960 **Sample:** E5P5038-ICC5038
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106519.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

46) I Acenaphthene-d10	----------ISTD----------									
47) Hexachlorocy	0.451	0.463	0.495	0.465	0.429	0.425	0.396	0.382	0.438	8.64
48) 1,2,4,5-Tetr	0.572	0.562	0.613	0.616	0.624	0.626	0.651	0.625	0.611	4.83
49) 2,4,6-Trichl	0.372	0.388	0.412	0.395	0.397	0.396	0.364	0.421	0.393	4.75
50) 2,4,5-Trichl	0.417	0.408	0.440	0.438	0.410	0.398	0.426	0.439	0.422	3.81
51) 2-Fluorobiph	1.207	1.214	1.312	1.365	1.277	1.305	1.395	1.432	1.313	6.16
52) 2-Chloronaph	1.054	1.037	1.127	1.142	1.125	1.151	1.137	1.178	1.119	4.32
53) Biphenyl	1.374	1.352	1.460	1.484	1.483	1.509	1.443	1.456	1.445	3.80
54) 2-Nitroanili	0.281	0.292	0.310	0.294	0.299	0.293	0.255	0.282	0.288	5.65
55) Dimethylphth	1.303	1.286	1.325	1.386	1.372	1.389	1.353	1.395	1.351	3.10
56) Acenaphthyle	1.836	1.849	1.981	1.974	1.938	1.954	1.840	1.886	1.907	3.22
57) 2,6-Dinitrot	0.268	0.277	0.299	0.280	0.265	0.289	0.238	0.269	0.273	6.71
58) 3-Nitroanili	0.304	0.315	0.336	0.292	0.263	0.261	0.215		0.284	14.29
59) Acenaphthene	1.108	1.110	1.151	1.115	1.188	1.221	1.166	1.285	1.168	5.33
60) 2,4-Dinitrop	0.179	0.186	0.197	0.169	0.161	0.151	0.135		0.168	12.68
61) 4-Nitropheno	0.134	0.137	0.153	0.142	0.130	0.128	0.114	0.092	0.129	14.40
62) Dibenzofuran	1.556	1.546	1.642	1.686	1.669	1.728	1.677	1.611	1.639	3.91
63) 2,4-Dinitrot	0.371	0.373	0.406	0.387	0.384	0.372	0.380	0.339	0.377	5.08
64) 2,3,4,6-Tetr	0.376	0.383	0.410	0.379	0.382	0.347	0.381	0.334	0.374	6.20
65) Diethylphtha	1.286	1.284	1.353	1.340	1.326	1.367	1.390	1.328	1.334	2.77
66) Fluorene	1.280	1.219	1.314	1.240	1.363	1.389	1.349	1.372	1.316	4.82
67) 4-Chlorophen	0.637	0.650	0.675	0.629	0.658	0.643	0.640	0.680	0.652	2.81
68) 4-Nitroanili	0.266	0.278	0.293	0.267	0.261	0.240	0.181		0.255	14.33
69) I Phenanthrene-d10	----------ISTD----------									
70) 4,6-Dinitro-	0.123	0.126	0.127	0.123	0.115	0.112	0.083	0.083	0.112	16.53
71) n-Nitrosodip	0.533	0.558	0.549	0.591	0.611	0.612	0.594	0.553	0.575	5.30
72) Pentachloron	0.046	0.046	0.048	0.046	0.044	0.046	0.045	0.038	0.045#	6.52
73) 1,2-Diphenyl	0.595	0.555	0.556	0.620	0.616	0.623	0.634	0.616	0.602	5.08
74) 2,4,6-Tribro	0.137	0.143	0.142	0.135	0.129	0.133	0.128	0.126	0.134	4.73
75) 4-Bromopheny	0.234	0.241	0.237	0.232	0.227	0.223	0.225	0.212	0.229	4.08
76) Hexachlorobe	0.272	0.274	0.272	0.263	0.271	0.276	0.291	0.269	0.273	2.88
77) Pentachlorop	0.176	0.183	0.178	0.173	0.156	0.142	0.140	0.132	0.160	12.50
78) Phenanthrene	0.996	1.003	0.989	1.003	1.025	1.044	1.092	1.144	1.037	5.25
79) Anthracene	0.998	1.010	0.978	1.050	1.051	1.045	0.971	1.058	1.020	3.45
80) Carbazole	0.923	0.921	0.964	0.985	0.961	0.963	0.923	0.889	0.941	3.39
81) Di-n-butylph	1.221	1.257	1.236	1.242	1.192	1.170	1.130	1.139	1.198	4.03
82) Fluoranthene	1.260	1.238	1.248	1.237	1.258	1.219	1.181	1.221	1.233	2.08
83) Octadecane	0.436	0.420	0.428	0.441	0.455	0.428	0.419	0.461	0.436	3.57
84) I Chrysene-d12	----------ISTD----------									
85) Benzidine	0.612	0.725	0.694	0.492	0.364	0.169			0.509	41.98
---- Quadratic regression ---- Coefficient = 0.9997										
Response Ratio = -0.04860 + 0.53665 *A + 0.08577 *A^2										
86) Pyrene	1.375	1.232	1.296	1.359	1.415	1.396	1.468	1.461	1.375	5.84
87) Terphenyl-d1	1.090	1.078	1.088	1.104	1.119	1.070	1.068	1.100	1.090	1.61
88) Butylbenzylp	0.606	0.583	0.618	0.579	0.549	0.529	0.529	0.555	0.569	5.87
89) Benzo[a]anth	1.293	1.224	1.290	1.289	1.274	1.236	1.220	1.323	1.269	2.97
90) 3,3'-Dichlor	0.510	0.546	0.535	0.484	0.441	0.320	0.300		0.448	22.45
---- Linear regression ---- Coefficient = 0.9982										
Response Ratio = -0.01810 + 0.53920 *A										
91) Chrysene	0.990	1.080	1.078	1.092	1.190	1.175	1.231	1.265	1.138	8.13
92) bis(2-Ethylh	0.765	0.802	0.790	0.778	0.766	0.748	0.754	0.723	0.766	3.25
93) I Perylene-d12	----------ISTD----------									
94) Di-n-octylph	1.344	1.444	1.363	1.320	1.234	1.191	1.188	1.112	1.275	8.70
95) Benzo[b]fluo	1.190	1.176	1.219	1.262	1.206	1.139	1.247	1.259	1.212	3.57

Initial Calibration Summary

Job Number: JE23960 **Sample:** E5P5038-ICC5038
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106519.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

96)	Benzo[k]fluo	1.086	1.109	0.998	1.059	1.190	1.190	1.151	1.169	1.119	6.13
97)	Benzo[a]pyre	1.115	1.150	1.091	1.109	1.037	1.040	1.095	1.046	1.085	3.78
98)	Indeno[1,2,3	1.307	1.355	1.305	1.295	1.263	1.247	1.219	1.253	1.280	3.38
99)	Dibenz(a,h)a	0.923	1.000	0.942	0.895	0.881	0.802	0.849	0.858	0.894	6.86
100)	Dibenz[a,h]a	1.068	1.098	1.057	1.058	1.061	1.033	1.019	1.034	1.054	2.35
101)	7,12-Dimethy	0.516	0.528	0.533	0.511	0.510	0.476	0.462	0.482	0.502	5.09
102)	Benzo[g,h,i]	1.058	1.093	1.055	1.036	1.021	1.008	0.993	0.957	1.028	4.13

(#) = Out of Range ### Number of calibration levels exceeded format ###

M5P5038LVI.M Tue Nov 25 13:30:16 2025

Initial Calibration Verification

Job Number: JE23960 **Sample:** E5P5038-ICV5038
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106522.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : C:\msdchem\1\DATA\E5P5038\5p106522.D Vial: 11
Acq On : 25 Nov 2025 1:57 am Operator: thomasl
Sample : icv5038-10 Inst : GCMS5P
Misc : op69196,e5p5038,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : C:\MSDCHEM\1\METHODS\M5P5038LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Tue Nov 25 13:26:57 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		1,4-dichlorobenzene-d4	1.000	1.000	0.0	109	0.00	4.51
2	t	1,4-Dioxane	0.551	0.498	9.6	101	0.00	2.74
3	t	Pyridine	1.278	1.347	-5.4	101	0.00	2.97
4	t	N-Nitrosodimethylamine	0.733	0.760	-3.7	102	0.00	2.93
6	t	Indene	2.087	2.005	3.9	102	0.00	4.65
7	t	Cumene	2.756	2.586	6.2	98	0.00	4.06
9	t	Phenol	1.691	1.757	-3.9	108	0.00	4.32
10		Aniline	1.787	1.903	-6.5	105	0.00	4.32
11	t	bis(2-Chloroethyl)ether	1.140	1.107	2.9	106	0.00	4.35
12	t	2-Chlorophenol	1.280	1.187	7.3	98	0.00	4.40
13	t	Decane	1.287	1.052	18.3	92	0.00	4.40
14	t	1,3-Dichlorobenzene	1.480	1.424	3.8	104	0.00	4.47
15	t	1,4-Dichlorobenzene	1.482	1.412	4.7	105	0.00	4.52
16	t	Benzyl alcohol	0.745	0.750	-0.7	99	0.00	4.59
17	t	1,2-Dichlorobenzene	1.411	1.355	4.0	103	0.00	4.60
18	t	Acetophenone	1.732	1.665	3.9	104	0.00	4.73
19	t	2-Methylphenol	1.082	1.108	-2.4	106	0.00	4.65
20	t	2,2'-oxybis(1-Chloropropa	1.707	1.537	10.0	101	0.00	4.65
21	t	3&4-Methylphenol	1.114	1.123	-0.8	110	0.00	4.74
22	t	n-Nitroso-di-n-propylamin	0.842	0.812	3.6	105	0.00	4.72
23	t	Hexachloroethane	0.542	0.521	3.9	106	0.00	4.79
24	I	Naphthalene-d8	1.000	1.000	0.0	107	0.00	5.23
26	t	Nitrobenzene	0.321	0.305	5.0	102	0.00	4.83
27	t	Quinoline	0.677	0.677	0.0	102	0.00	5.45
28	t	Isophorone	0.596	0.619	-3.9	105	0.00	4.96
29	t	2-Nitrophenol	0.179	0.198	-10.6	108	0.00	5.01
30	t	2,4-Dimethylphenol	0.315	0.313	0.6	101	0.00	5.03
31	t	Benzoic acid	0.220	0.248	-12.7	112	0.00	5.10
32	t	bis(2-Chloroethoxy)methan	0.376	0.372	1.1	103	0.00	5.07
33	t	2,4-Dichlorophenol	0.296	0.321	-8.4	109	0.00	5.15
34	t	2,6-Dichlorophenol	0.283	0.292	-3.2	114	0.00	5.27
35		1,3,5-Trichlorobenzene	0.345	0.345	0.0	103	0.00	5.01
36	t	1,2,4-Trichlorobenzene	0.317	0.320	-0.9	106	0.00	5.19
37		1,2,3-Trichlorobenzene	0.322	0.296	8.1	101	0.00	5.32
38	t	Naphthalene	0.970	0.939	3.2	111	0.00	5.24
39	t	4-Chloroaniline	0.361	0.400	-10.8	111	0.00	5.27
40	t	2,3-Dichloroaniline	0.350	0.345	1.4	107	0.00	5.84
41	t	Hydroquinone	0.306	0.170	44.4#	54	0.01	5.50
42	t	Hexachlorobutadiene	0.194	0.192	1.0	107	0.00	5.31
43	t	4-Chloro-3-methylphenol	0.264	0.279	-5.7	116	0.00	5.56
44	t	2-Methylnaphthalene	0.551	0.546	0.9	103	0.00	5.65

Initial Calibration Verification

Job Number: JE23960 **Sample:** E5P5038-ICV5038
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106522.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

45	t	1-Methylnaphthalene	0.595	0.583	2.0	103	0.00	5.72
46	I	Acenaphthene-d10	1.000	1.000	0.0	100	0.00	6.36
47	t	Hexachlorocyclopentadiene	0.438	0.455	-3.9	101	0.00	5.75
48	t	1,2,4,5-Tetrachlorobenzen	0.611	0.595	2.6	104	0.00	5.76
49	t	2,4,6-Trichlorophenol	0.393	0.412	-4.8	111	0.00	5.84
50	t	2,4,5-Trichlorophenol	0.422	0.431	-2.1	103	0.00	5.87
52	t	2-Chloronaphthalene	1.119	1.099	1.8	104	0.00	5.97
53	t	Biphenyl	1.445	1.382	4.4	101	0.00	5.95
54	t	2-Nitroaniline	0.288	0.298	-3.5	106	0.00	6.04
55	t	Dimethylphthalate	1.351	1.313	2.8	101	0.00	6.16
56	t	Acenaphthylene	1.907	1.885	1.2	103	0.00	6.26
57	t	2,6-Dinitrotoluene	0.273	0.282	-3.3	105	0.00	6.20
58	t	3-Nitroaniline	0.284	0.305	-7.4	101	0.00	6.34
59	t	Acenaphthene	1.168	1.153	1.3	104	0.00	6.39
60	t	2,4-Dinitrophenol	0.168	0.192	-14.3	107	0.00	6.41
61	t	4-Nitrophenol	0.129	0.150	-16.3	113	0.00	6.47
62	t	Dibenzofuran	1.639	1.599	2.4	103	0.00	6.51
63	t	2,4-Dinitrotoluene	0.377	0.383	-1.6	103	0.00	6.50
64		2,3,4,6-Tetrachlorophenol	0.374	0.389	-4.0	104	0.00	6.60
65	t	Diethylphthalate	1.334	1.292	3.1	101	0.00	6.66
66	t	Fluorene	1.316	1.284	2.4	101	0.00	6.77
67	t	4-Chlorophenyl-phenylethe	0.652	0.630	3.4	99	0.00	6.76
68	t	4-Nitroaniline	0.255	0.260	-2.0	98	0.00	6.80
69	I	Phenanthrene-d10	1.000	1.000	0.0	102	0.00	7.55
70	t	4,6-Dinitro-2-methylpheno	0.112	0.129	-15.2	107	0.00	6.81
71	t	n-Nitrosodiphenylamine	0.575	0.572	0.5	110	0.00	6.86
72	t	Pentachloronitrobenzene	0.045	0.045#	0.0	100	0.00	7.39
73	t	1,2-Diphenylhydrazine	0.602	0.581	3.5	100	0.00	6.89
75	t	4-Bromophenyl-phenylether	0.229	0.235	-2.6	103	0.00	7.16
76	t	Hexachlorobenzene	0.273	0.275	-0.7	104	0.00	7.21
77	t	Pentachlorophenol	0.160	0.169	-5.6	98	0.00	7.39
78	t	Phenanthrene	1.037	0.991	4.4	102	0.00	7.57
79	t	Anthracene	1.020	0.985	3.4	101	0.00	7.61
80	t	Carbazole	0.941	0.938	0.3	104	0.00	7.76
81	t	Di-n-butylphthalate	1.198	1.167	2.6	98	0.00	8.05
82	t	Fluoranthene	1.233	1.235	-0.2	100	0.00	8.65
83	t	Octadecane	0.436	0.424	2.8	100	0.00	7.42
84	I	Chrysene-d12	1.000	1.000	0.0	101	0.00	10.02
		----------	True	Calc.	% Drift	----------		
85	t	Benzidine	10.000	9.744	2.6	97	0.00	8.77
		----------	AvgRF	CCRF	% Dev	----------		
86	t	Pyrene	1.375	1.309	4.8	96	0.00	8.86
88	t	Butylbenzylphthalate	0.569	0.606	-6.5	101	0.00	9.47
89	t	Benzo[a]anthracene	1.269	1.230	3.1	96	0.00	10.01
		----------	True	Calc.	% Drift	----------		
90	t	3,3'-Dichlorobenzidine	10.000	9.422	5.8	98	0.00	9.99
		----------	AvgRF	CCRF	% Dev	----------		
91	t	Chrysene	1.138	1.090	4.2	111	0.00	10.05
92	t	bis(2-Ethylhexyl)phthalat	0.766	0.800	-4.4	106	0.00	10.02
93	I	Perylene-d12	1.000	1.000	0.0	103	0.00	11.40
94	t	Di-n-octylphthalate	1.275	1.352	-6.0	104	0.00	10.63
95	t	Benzo[b]fluoranthene	1.212	1.202	0.8	104	0.00	11.01

Initial Calibration Verification

Job Number: JE23960 **Sample:** E5P5038-ICV5038
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106522.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

96	t	Benzo[k]fluoranthene	1.119	1.063	5.0	101	0.00	11.04
97	t	Benzo[a]pyrene	1.085	1.074	1.0	100	0.00	11.34
98	t	Indeno[1,2,3-cd]pyrene	1.280	1.284	-0.3	102	0.00	12.65
99	t	Dibenz(a,h)acridine	0.894	0.941	-5.3	105	0.00	12.35
100	t	Dibenz[a,h]anthracene	1.054	0.996	5.5	96	0.00	12.67
101	t	7,12-Dimethylbenz(a)anthr	0.502	0.376	25.1	75	0.00	11.00
102	t	Benzo[g,h,i]perylene	1.028	1.045	-1.7	102	0.00	13.03

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p106003A.D M5P5038LVI.M Tue Nov 25 13:29:51 2025

6.6.13

6

Continuing Calibration Summary

Job Number: JE23960 **Sample:** E5P5039-CC5038
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106527.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...25\e5p5039\5p106527.d Vial: 3
Acq On : 25 Nov 2025 4:18 pm Operator: thomasl
Sample : cc5038-10 Inst : GCMS5P
Misc : op69196,e5p5039,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ods\M5P5038LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Tue Nov 25 13:26:57 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1		1,4-dichlorobenzene-d4	1.000	1.000	0.0	120	0.00	4.51
2	t	1,4-Dioxane	0.551	0.598	-8.5	133	0.00	2.75
3	t	Pyridine	1.278	1.575	-23.2#	129	0.00	2.98
4	t	N-Nitrosodimethylamine	0.733	0.880	-20.1#	130	0.00	2.94
5	S	2-Fluorophenol	1.188	1.456	-22.6#	135	0.00	3.78
6	t	Indene	2.087	2.135	-2.3	119	0.00	4.65
7	t	Cumene	2.756	3.189	-15.7	133	0.00	4.06
8	S	Phenol-d5	1.431	1.682	-17.5	128	0.00	4.31
9	t	Phenol	1.691	1.908	-12.8	129	0.00	4.32
10		Aniline	1.787	1.923	-7.6	116	0.00	4.32
11	t	bis(2-Chloroethyl)ether	1.140	1.221	-7.1	128	0.00	4.35
12	t	2-Chlorophenol	1.280	1.407	-9.9	127	0.00	4.40
13	t	Decane	1.287	1.330	-3.3	128	0.00	4.40
14	t	1,3-Dichlorobenzene	1.480	1.565	-5.7	125	0.00	4.48
15	t	1,4-Dichlorobenzene	1.482	1.526	-3.0	125	0.00	4.52
16	t	Benzyl alcohol	0.745	0.832	-11.7	121	0.00	4.59
17	t	1,2-Dichlorobenzene	1.411	1.509	-6.9	126	0.00	4.61
18	t	Acetophenone	1.732	1.755	-1.3	119	0.00	4.73
19	t	2-Methylphenol	1.082	1.127	-4.2	119	0.00	4.65
20	t	2,2'-oxybis(1-Chloropropa	1.707	1.657	2.9	120	0.00	4.65
21	t	3&4-Methylphenol	1.114	1.140	-2.3	122	0.00	4.74
22	t	n-Nitroso-di-n-propylamin	0.842	0.863	-2.5	122	0.00	4.73
23	t	Hexachloroethane	0.542	0.579	-6.8	129	0.00	4.80
24	I	Naphthalene-d8	1.000	1.000	0.0	120	0.00	5.23
25	S	Nitrobenzene-d5	0.311	0.328	-5.5	121	0.00	4.82
26	t	Nitrobenzene	0.321	0.333	-3.7	124	0.00	4.83
27	t	Quinoline	0.677	0.700	-3.4	118	0.00	5.45
28	t	Isophorone	0.596	0.596	0.0	113	0.00	4.96
29	t	2-Nitrophenol	0.179	0.190	-6.1	116	0.00	5.01
30	t	2,4-Dimethylphenol	0.315	0.321	-1.9	115	0.00	5.03
31	t	Benzoic acid	0.220	0.252	-14.5	127	0.00	5.10
32	t	bis(2-Chloroethoxy)methan	0.376	0.391	-4.0	120	0.00	5.07
33	t	2,4-Dichlorophenol	0.296	0.324	-9.5	123	0.00	5.15
34	t	2,6-Dichlorophenol	0.283	0.299	-5.7	131	0.00	5.28
35		1,3,5-Trichlorobenzene	0.345	0.348	-0.9	116	0.00	5.01
36	t	1,2,4-Trichlorobenzene	0.317	0.330	-4.1	122	0.00	5.19
37		1,2,3-Trichlorobenzene	0.322	0.325	-0.9	123	0.00	5.33
38	t	Naphthalene	0.970	0.976	-0.6	129	0.00	5.24
39	t	4-Chloroaniline	0.361	0.378	-4.7	117	0.00	5.27
40	t	2,3-Dichloroaniline	0.350	0.354	-1.1	122	0.00	5.84
41	t	Hydroquinone	0.306	0.326	-6.5	116	0.00	5.49

Continuing Calibration Summary

Job Number: JE23960 **Sample:** E5P5039-CC5038
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106527.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

42	t	Hexachlorobutadiene	0.194	0.211	-8.8	131	0.00	5.31
43	t	4-Chloro-3-methylphenol	0.264	0.281	-6.4	131	0.00	5.56
44	t	2-Methylnaphthalene	0.551	0.584	-6.0	122	0.00	5.65
45	t	1-Methylnaphthalene	0.595	0.610	-2.5	120	0.00	5.72
46	I	Acenaphthene-d10	1.000	1.000	0.0	107	0.00	6.36
47	t	Hexachlorocyclopentadiene	0.438	0.516	-17.8	122	0.00	5.75
48	t	1,2,4,5-Tetrachlorobenzen	0.611	0.634	-3.8	119	0.00	5.76
49	t	2,4,6-Trichlorophenol	0.393	0.429	-9.2	123	0.00	5.84
50	t	2,4,5-Trichlorophenol	0.422	0.452	-7.1	116	0.00	5.87
51	S	2-Fluorobiphenyl	1.313	1.379	-5.0	122	0.00	5.88
52	t	2-Chloronaphthalene	1.119	1.152	-2.9	117	0.00	5.97
53	t	Biphenyl	1.445	1.417	1.9	110	0.00	5.95
54	t	2-Nitroaniline	0.288	0.305	-5.9	116	0.00	6.05
55	t	Dimethylphthalate	1.351	1.366	-1.1	112	0.00	6.16
56	t	Acenaphthylene	1.907	2.004	-5.1	117	0.00	6.26
57	t	2,6-Dinitrotoluene	0.273	0.277	-1.5	110	0.00	6.20
58	t	3-Nitroaniline	0.284	0.309	-8.8	109	0.00	6.34
59	t	Acenaphthene	1.168	1.218	-4.3	118	0.00	6.39
60	t	2,4-Dinitrophenol	0.168	0.186	-10.7	111	0.00	6.41
61	t	4-Nitrophenol	0.129	0.148	-14.7	119	0.00	6.47
62	t	Dibenzofuran	1.639	1.646	-0.4	113	0.00	6.51
63	t	2,4-Dinitrotoluene	0.377	0.378	-0.3	109	0.00	6.50
64		2,3,4,6-Tetrachlorophenol	0.374	0.413	-10.4	117	0.00	6.61
65	t	Diethylphthalate	1.334	1.340	-0.4	111	0.00	6.67
66	t	Fluorene	1.316	1.352	-2.7	113	0.00	6.78
67	t	4-Chlorophenyl-phenylethe	0.652	0.698	-7.1	117	0.00	6.76
68	t	4-Nitroaniline	0.255	0.265	-3.9	106	0.00	6.81
69	I	Phenanthrene-d10	1.000	1.000	0.0	104	0.00	7.55
70	t	4,6-Dinitro-2-methylpheno	0.112	0.133	-18.8	112	0.00	6.81
71	t	n-Nitrosodiphenylamine	0.575	0.626	-8.9	122	0.00	6.86
72	t	Pentachloronitrobenzene	0.045	0.051	-13.3	113	0.00	7.40
73	t	1,2-Diphenylhydrazine	0.602	0.648	-7.6	113	0.00	6.89
74	S	2,4,6-Tribromophenol	0.134	0.157	-17.2	119	0.00	6.97
75	t	4-Bromophenyl-phenylether	0.229	0.264	-15.3	117	0.00	7.16
76	t	Hexachlorobenzene	0.273	0.284	-4.0	109	0.00	7.22
77	t	Pentachlorophenol	0.160	0.197	-23.1#	116	0.00	7.39
78	t	Phenanthrene	1.037	1.076	-3.8	112	0.00	7.57
79	t	Anthracene	1.020	1.098	-7.6	114	0.00	7.61
80	t	Carbazole	0.941	0.954	-1.4	107	0.00	7.76
81	t	Di-n-butylphthalate	1.198	1.353	-12.9	115	0.00	8.05
82	t	Fluoranthene	1.233	1.348	-9.3	111	0.00	8.65
83	t	Octadecane	0.436	0.486	-11.5	116	0.00	7.42
84	I	Chrysene-d12	1.000	1.000	0.0	103	0.00	10.02
		----------	True	Calc.	% Drift	----------		
85	t	Benzidine	10.000	9.464	5.4	95	0.02	8.79
		----------	AvgRF	CCRF	% Dev	----------		
86	t	Pyrene	1.375	1.461	-6.3	110	0.00	8.86
87	S	Terphenyl-d14	1.090	1.178	-8.1	111	0.00	9.00
88	t	Butylbenzylphthalate	0.569	0.665	-16.9	113	0.00	9.47
89	t	Benzo[a]anthracene	1.269	1.373	-8.2	110	0.00	10.01
		----------	True	Calc.	% Drift	----------		
90	t	3,3'-Dichlorobenzidine	10.000	10.449	-4.5	111	0.00	9.99
		----------	AvgRF	CCRF	% Dev	----------		

Continuing Calibration Summary

Job Number: JE23960 **Sample:** E5P5039-CC5038
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106527.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

91	t	Chrysene	1.138	1.183	-4.0	123	0.00	10.05
92	t	bis(2-Ethylhexyl)phthalat	0.766	0.873	-14.0	118	0.00	10.03
93	I	Perylene-d12	1.000	1.000	0.0	105	0.00	11.41
94	t	Di-n-octylphthalate	1.275	1.399	-9.7	110	0.00	10.63
95	t	Benzo[b]fluoranthene	1.212	1.254	-3.5	111	0.00	11.02
96	t	Benzo[k]fluoranthene	1.119	1.100	1.7	107	0.00	11.04
97	t	Benzo[a]pyrene	1.085	1.142	-5.3	108	0.00	11.35
98	t	Indeno[1,2,3-cd]pyrene	1.280	1.388	-8.4	112	0.00	12.66
99	t	Dibenz(a,h)acridine	0.894	0.987	-10.4	113	0.00	12.36
100	t	Dibenz[a,h]anthracene	1.054	1.119	-6.2	110	0.00	12.68
101	t	7,12-Dimethylbenz(a)anthr	0.502	0.540	-7.6	110	0.00	11.01
102	t	Benzo[g,h,i]perylene	1.028	1.108	-7.8	110	0.01	13.04

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p106003A.D M5P5038LVI.M Wed Nov 26 02:31:51 2025

Continuing Calibration Summary

Job Number: JE23960 **Sample:** E5P5039-CC5020
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** 5P106528.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\...25\e5p5039\5p106528.d Vial: 4
Acq On : 25 Nov 2025 4:40 pm Operator: thomasl
Sample : cc5020-10 Inst : GCMS5P
Misc : op69196,e5p5039,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...ods\M5P5038LVI.M (RTE Integrator)
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
Last Update : Tue Nov 25 13:26:57 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
103		1,4-Dichlorobenzene-d4a	1.000	1.000	0.0	120	-0.03	4.51
104		Benzaldehyde	1.036	0.966	6.8	120	-0.03	4.26
105		Phenanthrene-d10a	1.000	1.000	0.0	112	-0.04	7.55
106		Atrazine	0.090	0.087	3.3	106	-0.03	7.29
107		Naphthalene-d8a	1.000	1.000	0.0	117	-0.03	5.23
108	t	Caprolactam	0.145	0.126	13.1	107	-0.02	5.48
111		Phenanthrene-d10b	1.000	1.000	0.0	112	-0.04	7.55
112	s	1-chlorooctadecane	0.321	0.289	10.0	99	-0.05	8.51
113	s	o-terphenyl	0.580	0.524	9.7	107	-0.05	7.87

(#) = Out of Range SPCC's out = 0 CCC's out = 0
5p106003A.D M5P5038LVI.M Wed Nov 26 02:37:41 2025

Initial Calibration Summary

Job Number: JE23960 **Sample:** ECS491-ICC491
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CS9646.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Response Factor Report GCMS_CS

Method : R:\Dayton\MSSEMI\mcs491SIMLVI.M (RTE Integrator)
Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Wed Nov 12 16:10:07 2025
Response via : Initial Calibration

Calibration Files
.002=cs9640.D 1.0 =cs9648.D 0.5 =cs9647.D 0.2 =cs9646.D
0.1 =cs9645.D 0.04=cs9644.D 0.02=cs9643.D 0.01=cs9642.D
.004=cs9641.D 2 =cs9649.D = =

Compound	.002	1.0	0.5	0.2	0.1	0.04	0.02	0.01	.004	2	Avg	%RSD
1) I 1-Methylnaphthalene-d	----------ISTD----------											
2) 1,4-Dioxane	0.501	0.473	0.431	0.443	0.435	0.430	0.331			0.480	0.441	11.65
3) 2-Fluorophenol	0.875	0.826	0.922	0.926	0.939	0.910	0.866	0.871	1.044	0.735	0.892	9.01
4) Phenol-d5	1.086	0.998	1.088	1.132	1.135	1.114	1.084	1.040	1.310	0.912	1.090	9.45
5) Phenol	1.257	1.182	1.287	1.298	1.282	1.271	1.224	1.208	1.405	1.075	1.249	6.91
6) Nitrobenzene-d5	0.960	0.869	0.949	0.938	0.937	0.920	0.903	0.891	1.234	0.791	0.939	12.22
7) Naphthalene	3.289	3.008	3.160	3.027	3.016	3.017	2.978	2.969	3.818	2.914	3.119	8.59
8) Hexachlorobutadiene	0.562	0.498	0.519	0.495	0.504	0.497	0.513	0.534	0.645	0.479	0.525	9.18
9) 2-Methylnaphthalene	1.851	1.536	1.611	1.521	1.499	1.467	1.421	1.448	2.002	1.486	1.584	12.07
10) 1-Methylnaphthalene	1.517	1.592	1.672	1.584	1.553	1.560	1.539	1.573	2.085	1.529	1.620	10.42
11) I Fluorene-d10	----------ISTD----------											
12) 2-Fluorobiphenyl	1.155	1.296	1.388	1.445	1.494	1.496	1.511	1.905	1.000		1.410	18.04
13) Acenaphthylene	2.571	2.259	2.304	2.137	2.086	2.001	2.035	2.102	2.671	2.209	2.237	10.03
14) Acenaphthene	1.596	1.410	1.471	1.435	1.436	1.396	1.463	1.475	1.849	1.343	1.487	9.62
15) Fluorene	1.577	1.646	1.573	1.563	1.544	1.517	1.616	2.100	1.517		1.628	11.18
16) 4,6-dinitro-2-methylphenol	0.285	0.264	0.197	0.148	0.102	0.077				0.289	0.195	45.28
---- Quadratic regression ---- Coefficient = 0.9962												
Response Ratio = -0.03387 + 0.25607 *A + 0.00315 *A^2												
17) 2,4,6-Tribromophenol	0.162	0.211	0.229	0.222	0.216	0.199	0.185	0.187	0.211	0.187	0.201	10.17
18) I Fluoranthene-d10	----------ISTD----------											
19) Hexachlorobenzene	0.399	0.335	0.345	0.327	0.323	0.310	0.325	0.309	0.431	0.331	0.343	11.60
20) Pentachlorophenol	0.205	0.176	0.152	0.124	0.101	0.078	0.069				0.129	39.34
---- Quadratic regression ---- Coefficient = 0.9984												
Response Ratio = -0.00314 + 0.14568 *A + 0.01953 *A^2												

Initial Calibration Summary

Job Number: JE23960 **Sample:** ECS491-ICC491
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CS9646.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

```
21)  Phenanthrene
          1.586 1.428 1.486 1.404 1.354 1.310 1.301 1.345 1.715 1.408  1.434    9.12
22)  Anthracene
          1.246 1.462 1.495 1.361 1.303 1.294 1.300 1.334 1.685 1.451  1.393    9.47
23)  Fluoranthene
          1.612 1.529 1.600 1.516 1.519 1.443 1.484 1.519 1.951 1.491  1.566    9.20
24)  Pyrene
          1.594 1.563 1.622 1.531 1.487 1.458 1.441 1.487 1.839 1.522  1.554    7.42
25)  Terphenyl-d14
          0.583 0.520 0.583 0.594 0.601 0.590 0.578 0.584 0.704 0.467  0.580   10.37
26)  Benzo[a]anthracene
          1.022 1.144 1.154 1.047 1.027 0.977 0.939 0.963 1.288 1.134  1.069   10.17
27)  Chrysene
          1.092 1.116 1.159 1.108 1.096 1.070 1.042 1.067 1.414 1.072  1.124    9.51

28) I   Benzo(a)pyrene-d12    ----------------ISTD---------------------
29)  Benzo[b]fluoranthene
          1.945 1.939 1.969 1.848 1.808 1.663 1.625 1.679 2.046 1.901  1.842    7.85
30)  Benzo[k]fluoranthene
          2.188 1.953 2.020 1.895 1.861 1.909 1.848 1.945 2.559 1.933  2.011   10.72
31)  Benzo[a]pyrene
          2.008 1.849 1.853 1.784 1.787 1.750 1.731 1.807 2.234 1.825  1.863    8.12
32)  Indeno[1,2,3-cd]pyrene
          2.765 3.022 3.034 2.838 2.761 2.731 2.610 2.636 3.032 3.010  2.844    5.92
33)  Dibenz[a,h]anthracene
          2.126 2.513 2.534 2.379 2.321 2.289 2.168 2.233 2.423 2.477  2.346    6.10
34)  Benzo[g,h,i]perylene
          2.417 2.457 2.492 2.359 2.329 2.266 2.294 2.212 2.781 2.440  2.405    6.64
---------------------------------------------------------------------------
(#) = Out of Range  ###  Number of calibration levels exceeded format  ###

          mcs491SIMLVI.M        Wed Nov 12 16:19:50 2025
```

Initial Calibration Verification

Job Number: JE23960 **Sample:** ECS491-ICV491
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CS9650.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : C:\GCMS\1\data\ECS491\cs9650.D Vial: 42
Acq On : 11 Nov 2025 09:03 pm Operator: thomasl
Sample : icv491-0.2 Inst : GCMS_CS
Misc : op68830a,ecs491,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : R:\Dayton\MSSEMI\mcs491SIMLVI.M (RTE Integrator)
Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Wed Nov 12 16:10:07 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	108	0.00	7.35
2	t	1,4-Dioxane	0.441	0.464	-5.2	116	0.00	3.61
7	t	Naphthalene	3.119	3.256	-4.4	116	0.00	6.86
8	t	Hexachlorobutadiene	0.525	0.510	2.9	111	0.00	6.98
9	t	2-Methylnaphthalene	1.584	1.488	6.1	105	0.00	7.31
10	t	1-Methylnaphthalene	1.620	1.655	-2.2	112	0.00	7.38
11	I	Fluorene-d10	1.000	1.000	0.0	108	0.00	8.45
13	t	Acenaphthylene	2.237	2.182	2.5	111	0.00	7.93
14	t	Acenaphthene	1.487	1.404	5.6	106	0.00	8.06
15	t	Fluorene	1.628	1.580	2.9	109	0.00	8.47
18	I	Fluoranthene-d10	1.000	1.000	0.0	110	0.00	10.81
19	t	Hexachlorobenzene	0.343	0.327	4.7	111	0.00	9.06

			AvgRF	CCRF	% Dev			
21	t	Phenanthrene	1.434	1.420	1.0	112	0.00	9.39
22	t	Anthracene	1.393	1.357	2.6	110	0.00	9.44
23	t	Fluoranthene	1.566	1.520	2.9	111	0.00	10.84
24	t	Pyrene	1.554	1.530	1.5	110	0.00	11.13
26	t	Benzo[a]anthracene	1.069	1.093	-2.2	115	0.00	12.87
27	t	Chrysene	1.124	1.160	-3.2	116	0.00	12.93
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	120	0.00	14.82
29	t	Benzo[b]fluoranthene	1.842	1.809	1.8	117	0.00	14.43
30	t	Benzo[k]fluoranthene	2.011	1.985	1.3	125	0.00	14.46
31	t	Benzo[a]pyrene	1.863	1.726	7.4	116	0.00	14.85
32	t	Indeno[1,2,3-cd]pyrene	2.844	2.843	0.0	120	0.00	16.31
33	t	Dibenz[a,h]anthracene	2.346	2.321	1.1	117	0.00	16.33
34	t	Benzo[g,h,i]perylene	2.405	2.275	5.4	115	0.00	16.64

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cs9646.D mcs491SIMLVI.M Wed Nov 12 16:19:32 2025

Initial Calibration Verification

Job Number: JE23960 **Sample:** ECS491-ICV491
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CS9651.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : C:\GCMS\1\data\ECS491\cs9651.D Vial: 43
Acq On : 11 Nov 2025 09:27 pm Operator: thomasl
Sample : icv491-1 Inst : GCMS_CS
Misc : op68830a,ecs491,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : R:\Dayton\MSSEMI\mcs491SIMLVI.M (RTE Integrator)
Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Wed Nov 12 16:10:07 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 30% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	116	0.00	7.35
5		Phenol	1.249	1.423	-13.9	127	0.00	5.88
11	I	Fluorene-d10	1.000	1.000	0.0	116	0.00	8.45
		----------	True	Calc.	% Drift	----------		
16		4,6-dinitro-2-methylpheno	1000.000	1024.842	-2.5	142	0.00	8.57
18	I	Fluoranthene-d10	1.000	1.000	0.0	115	0.00	10.81
		----------	True	Calc.	% Drift	----------		
20	t	Pentachlorophenol	1000.000	1010.969	-1.1	128	0.00	9.25

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cs9646.D mcs491SIMLVI.M Wed Nov 12 16:19:35 2025

Continuing Calibration Summary

Job Number: JE23960 **Sample:** ECS503-CC491
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CS9981.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Evaluate Continuing Calibration Report

Data File : X:\Dayton SVOA GCMS\... 2025\ecs503\cs9981.D Vial: 2
Acq On : 25 Nov 2025 05:29 pm Operator: alejanda
Sample : cc491-0.2 Inst : GCMS_CS
Misc : op69205a,ecs503,250,,,1,1 Multiplr: 1.00
MS Integration Params: lscint.p

Method : X:\Dayton SVOA G...s\mcs491SIMLVI.M (RTE Integrator)
Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
Last Update : Wed Nov 26 04:40:28 2025
Response via : Multiple Level Calibration

Min. RRF : 0.050 Min. Rel. Area : 50% Max. R.T. Dev 0.50min
Max. RRF Dev : 20% Max. Rel. Area : 200%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)	R.T.
1	I	1-Methylnaphthalene-d10	1.000	1.000	0.0	93	0.00	7.25
2	t	1,4-Dioxane	0.441	0.499	-13.2	108	0.00	3.52
3	S	2-Fluorophenol	0.892	0.935	-4.8	94	0.00	5.08
4	S	Phenol-d5	1.090	1.143	-4.9	94	0.00	5.85
5		Phenol	1.249	1.289	-3.2	92	0.00	5.85
6	S	Nitrobenzene-d5	0.939	0.935	0.4	93	0.00	6.31
7	t	Naphthalene	3.119	2.984	4.3	92	0.00	6.77
8	t	Hexachlorobutadiene	0.525	0.500	4.8	94	0.00	6.88
9	t	2-Methylnaphthalene	1.584	1.523	3.9	93	0.00	7.21
10	t	1-Methylnaphthalene	1.620	1.570	3.1	92	0.00	7.28
11	I	Fluorene-d10	1.000	1.000	0.0	93	0.00	8.34
12	S	2-Fluorobiphenyl	1.410	1.325	6.0	89	0.00	7.46
13	t	Acenaphthylene	2.237	2.142	4.2	94	0.00	7.82
14	t	Acenaphthene	1.487	1.398	6.0	91	0.00	7.96
15	t	Fluorene	1.628	1.513	7.1	90	0.00	8.36
			True	Calc.	% Drift			
16		4,6-dinitro-2-methylpheno	1000.000	850.670	14.9	92	0.00	8.46
			AvgRF	CCRF	% Dev			
17	S	2,4,6-Tribromophenol	0.201	0.208	-3.5	87	0.00	8.60
18	I	Fluoranthene-d10	1.000	1.000	0.0	93	0.00	10.72
19	t	Hexachlorobenzene	0.343	0.292	14.9	83	0.00	8.94
			True	Calc.	% Drift			
20	t	Pentachlorophenol	1000.000	859.841	14.0	74	0.00	9.15
			AvgRF	CCRF	% Dev			
21	t	Phenanthrene	1.434	1.379	3.8	91	0.00	9.28
22	t	Anthracene	1.393	1.396	-0.2	95	0.00	9.33
23	t	Fluoranthene	1.566	1.470	6.1	90	0.00	10.74
24	t	Pyrene	1.554	1.494	3.9	90	0.00	11.04
25	S	Terphenyl-d14	0.580	0.581	-0.2	91	0.00	11.31
26	t	Benzo[a]anthracene	1.069	1.110	-3.8	98	0.00	12.78
27	t	Chrysene	1.124	1.077	4.2	90	0.00	12.83
28	I	Benzo(a)pyrene-d12	1.000	1.000	0.0	94	0.00	14.72
29	t	Benzo[b]fluoranthene	1.842	1.818	1.3	92	0.00	14.33
30	t	Benzo[k]fluoranthene	2.011	1.822	9.4	90	0.00	14.36
31	t	Benzo[a]pyrene	1.863	1.723	7.5	90	0.00	14.75

Continuing Calibration Summary

Job Number: JE23960 **Sample:** ECS503-CC491
Account: MTXFPNJ Matrix New World Engineering, Inc. **Lab FileID:** CS9981.D
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

32	t	Indeno[1,2,3-cd]pyrene	2.844	2.644	7.0	87	0.00	16.18
33	t	Dibenz[a,h]anthracene	2.346	2.277	2.9	90	0.00	16.20
34	t	Benzo[g,h,i]perylene	2.405	2.135	11.2	85	0.00	16.51

(#) = Out of Range SPCC's out = 0 CCC's out = 0
cs9981.D mcs491SIMLVI.M Wed Nov 26 04:41:27 2025

Run Sequence Report

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Run ID: E3P5394	**Method:** SW846 8270E	**Instrument ID:** GCMS3P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3P5394-DFTPP	3P113979.D	10/01/25 12:41	n/a	DFTPP Tune
E3P5394-IC5394	3P113980.D	10/01/25 12:52	n/a	Initial cal 0.2
E3P5394-IC5394	3P113981.D	10/01/25 13:11	n/a	Initial cal 0.4
E3P5394-IC5394	3P113982.D	10/01/25 13:31	n/a	Initial cal 1
E3P5394-IC5394	3P113983.D	10/01/25 13:51	n/a	Initial cal 2
E3P5394-IC5394	3P113984.D	10/01/25 14:11	n/a	Initial cal 5
E3P5394-ICC5394	3P113985.D	10/01/25 14:31	n/a	Initial cal 10
E3P5394-IC5394	3P113986.D	10/01/25 14:51	n/a	Initial cal 16
E3P5394-IC5394	3P113987.D	10/01/25 15:10	n/a	Initial cal 20
E3P5394-IC5394	3P113988.D	10/01/25 15:30	n/a	Initial cal 0.2
E3P5394-IC5394	3P113989.D	10/01/25 15:50	n/a	Initial cal 0.4
E3P5394-IC5394	3P113990.D	10/01/25 16:10	n/a	Initial cal 1
E3P5394-IC5394	3P113991.D	10/01/25 16:30	n/a	Initial cal 2
E3P5394-IC5394	3P113992.D	10/01/25 16:50	n/a	Initial cal 5
E3P5394-IC5394	3P113993.D	10/01/25 17:10	n/a	Initial cal 10
E3P5394-IC5394	3P113994.D	10/01/25 17:30	n/a	Initial cal 16
E3P5394-IC5394	3P113995.D	10/01/25 17:50	n/a	Initial cal 20
E3P5394-ICV5394	3P113996.D	10/01/25 18:09	n/a	Initial cal verification 10
E3P5394-ICV5394	3P113997.D	10/01/25 18:29	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Run ID: E3P5401	**Method:** SW846 8270E	**Instrument ID:** GCMS3P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3P5401-DFTPP	3P114378.D	10/10/25 09:38	n/a	DFTPP Tune
E3P5401-IC5401	3P114379.D	10/10/25 09:48	n/a	Initial cal 0.2
E3P5401-IC5401	3P114380.D	10/10/25 10:08	n/a	Initial cal 0.4
E3P5401-IC5401	3P114381.D	10/10/25 10:27	n/a	Initial cal 1
E3P5401-IC5401	3P114382.D	10/10/25 10:47	n/a	Initial cal 2
E3P5401-IC5401	3P114383.D	10/10/25 11:07	n/a	Initial cal 5
E3P5401-ICC5401	3P114384.D	10/10/25 11:26	n/a	Initial cal 10
E3P5401-IC5401	3P114385.D	10/10/25 11:46	n/a	Initial cal 16
E3P5401-IC5401	3P114386.D	10/10/25 12:05	n/a	Initial cal 20
E3P5401-ICV5401	3P114387.D	10/10/25 12:25	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Run ID: E3P5428	**Method:** SW846 8270E	**Instrument ID:** GCMS3P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E3P5428-CC5401	3P115110.D	11/26/25 16:15	n/a	Continuing cal 10
E3P5428-CC5394	3P115111.D	11/26/25 16:35	n/a	Continuing cal 10
E3P5428-CC5401	3P115112.D	11/26/25 16:55	n/a	Continuing cal 0.4
OP69305-MB1	3P115114.D	11/26/25 17:34	OP69305	Method Blank
OP69305-BS1	3P115115.D	11/26/25 17:54	OP69305	Blank Spike
OP69305-BSD	3P115116.D	11/26/25 18:14	OP69305	Blank Spike Duplicate
ZZZZZZ	3P115117.D	11/26/25 18:34	OP69305	(unrelated sample)
ZZZZZZ	3P115118.D	11/26/25 18:54	OP69237	(unrelated sample)
ZZZZZZ	3P115119.D	11/26/25 19:14	OP69237	(unrelated sample)
ZZZZZZ	3P115120.D	11/26/25 19:34	OP69237	(unrelated sample)
ZZZZZZ	3P115121.D	11/26/25 19:54	OP69237	(unrelated sample)
ZZZZZZ	3P115122.D	11/26/25 20:13	OP69237	(unrelated sample)
ZZZZZZ	3P115123.D	11/26/25 20:33	OP69237	(unrelated sample)
ZZZZZZ	3P115124.D	11/26/25 20:53	OP69240	(unrelated sample)
ZZZZZZ	3P115125.D	11/26/25 21:13	OP69240	(unrelated sample)
ZZZZZZ	3P115126.D	11/26/25 21:33	OP69240	(unrelated sample)
ZZZZZZ	3P115127.D	11/26/25 21:53	OP69240	(unrelated sample)
ZZZZZZ	3P115128.D	11/26/25 22:13	OP69240	(unrelated sample)
ZZZZZZ	3P115129.D	11/26/25 22:33	OP69240	(unrelated sample)
ZZZZZZ	3P115130.D	11/26/25 22:53	OP69240	(unrelated sample)
ZZZZZZ	3P115131.D	11/26/25 23:13	OP69240	(unrelated sample)
ZZZZZZ	3P115132.D	11/26/25 23:33	OP69240	(unrelated sample)
JE23960-1	3P115133.D	11/26/25 23:53	OP69240	MW-1
JE23960-2	3P115134.D	11/27/25 00:13	OP69240	MW-2
ZZZZZZ	3P115135.D	11/27/25 00:33	OP69240	(unrelated sample)

Run Sequence Report

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Run ID: E5P5020	**Method:** SW846 8270E	**Instrument ID:** GCMS5P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E5P5020-DFTPP	5P105989.D	11/05/25 18:28	n/a	DFTPP Tune
E5P5020-IC5020	5P105990.D	11/05/25 18:41	n/a	Initial cal 0.2
E5P5020-IC5020	5P105991.D	11/05/25 19:03	n/a	Initial cal 0.4
E5P5020-IC5020	5P105992.D	11/05/25 19:24	n/a	Initial cal 1
E5P5020-IC5020	5P105993.D	11/05/25 19:46	n/a	Initial cal 2
E5P5020-IC5020	5P105994.D	11/05/25 20:08	n/a	Initial cal 5
E5P5020-ICC5020	5P105995.D	11/05/25 20:30	n/a	Initial cal 10
E5P5020-IC5020	5P105996.D	11/05/25 20:51	n/a	Initial cal 16
E5P5020-IC5020	5P105997.D	11/05/25 21:13	n/a	Initial cal 20
E5P5020-IC5020	5P105998.D	11/05/25 21:34	n/a	Initial cal 0.2
E5P5020-IC5020	5P105999.D	11/05/25 21:56	n/a	Initial cal 0.4
E5P5020-IC5020	5P106000.D	11/05/25 22:18	n/a	Initial cal 1
E5P5020-IC5020	5P106001.D	11/05/25 22:39	n/a	Initial cal 2
E5P5020-IC5020	5P106002.D	11/05/25 23:01	n/a	Initial cal 5
E5P5020-IC5020	5P106003.D	11/05/25 23:22	n/a	Initial cal 10
E5P5020-IC5020	5P106004.D	11/05/25 23:44	n/a	Initial cal 16
E5P5020-IC5020	5P106005.D	11/06/25 00:06	n/a	Initial cal 20
E5P5020-ICV5020	5P106006.D	11/06/25 00:28	n/a	Initial cal verification 10
E5P5020-ICV5020	5P106007.D	11/06/25 00:49	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Run ID: E5P5038	**Method:** SW846 8270E	**Instrument ID:** GCMS5P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E5P5038-DFTPP	5P106510.D	11/24/25 20:43	n/a	DFTPP Tune
E5P5038-IC5038	5P106514.D	11/24/25 23:01	n/a	Initial cal 0.2
E5P5038-IC5038	5P106515.D	11/24/25 23:23	n/a	Initial cal 0.4
E5P5038-IC5038	5P106516.D	11/24/25 23:45	n/a	Initial cal 1
E5P5038-IC5038	5P106517.D	11/25/25 00:07	n/a	Initial cal 2
E5P5038-IC5038	5P106518.D	11/25/25 00:29	n/a	Initial cal 5
E5P5038-ICC5038	5P106519.D	11/25/25 00:51	n/a	Initial cal 10
E5P5038-IC5038	5P106520.D	11/25/25 01:13	n/a	Initial cal 16
E5P5038-IC5038	5P106521.D	11/25/25 01:35	n/a	Initial cal 20
E5P5038-ICV5038	5P106522.D	11/25/25 01:57	n/a	Initial cal verification 10

Run Sequence Report

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Run ID: E5P5039	**Method:** SW846 8270E	**Instrument ID:** GCMS5P

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
E5P5039-DFTPP	5P106526.D	11/25/25 15:57	n/a	DFTPP Tune
E5P5039-CC5038	5P106527.D	11/25/25 16:18	n/a	Continuing cal 10
E5P5039-CC5020	5P106528.D	11/25/25 16:40	n/a	Continuing cal 10
OP69218-MB1	5P106530.D	11/25/25 17:23	OP69218	Method Blank
OP69218-MB2	5P106531.D	11/25/25 17:44	OP69218	Method Blank
OP69240B-MB1	5P106532.D	11/25/25 18:06	OP69240B	Method Blank
OP69240-MB1	5P106532.D	11/25/25 18:06	OP69240	Method Blank
ZZZZZZ	5P106533.D	11/25/25 18:28	OP69240	(unrelated sample)
JE23960-3	5P106534.D	11/25/25 18:49	OP69240	FB-1
OP69240B-BS1	5P106538.D	11/25/25 20:16	OP69240B	Blank Spike
OP69240-BS1	5P106538.D	11/25/25 20:16	OP69240	Blank Spike
OP69240B-BSD	5P106539.D	11/25/25 20:37	OP69240B	Blank Spike Duplicate
OP69240-BSD	5P106539.D	11/25/25 20:37	OP69240	Blank Spike Duplicate
OP69218-BS1	5P106540.D	11/25/25 20:59	OP69218	Blank Spike
OP69218-BSD	5P106541.D	11/25/25 21:21	OP69218	Blank Spike Duplicate
OP69218-BS2	5P106542.D	11/25/25 21:42	OP69218	Blank Spike
OP69218-BSD2	5P106543.D	11/25/25 22:04	OP69218	Blank Spike Duplicate
ZZZZZZ	5P106549.D	11/26/25 00:19	OP69240B	(unrelated sample)
ZZZZZZ	5P106550.D	11/26/25 00:42	OP69240B	(unrelated sample)
ZZZZZZ	5P106551.D	11/26/25 01:05	OP69240B	(unrelated sample)
ZZZZZZ	5P106552.D	11/26/25 01:27	OP69240	(unrelated sample)
ZZZZZZ	5P106553.D	11/26/25 01:50	OP69218	(unrelated sample)
ZZZZZZ	5P106557.D	11/26/25 03:21	OP69218	(unrelated sample)
ZZZZZZ	5P106558.D	11/26/25 03:44	OP69218	(unrelated sample)

Run Sequence Report

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Run ID: ECS491 **Method:** SW846 8270E BY SIM **Instrument ID:** GCMSCS

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ECS491-DFTPP	CS9636.D	11/11/25 14:08	n/a	DFTPP Tune
ECS491-IC491	CS9640.D	11/11/25 17:01	n/a	Initial cal 0.002
ECS491-IC491	CS9641.D	11/11/25 17:26	n/a	Initial cal 0.004
ECS491-IC491	CS9642.D	11/11/25 17:50	n/a	Initial cal 0.01
ECS491-IC491	CS9643.D	11/11/25 18:14	n/a	Initial cal 0.02
ECS491-IC491	CS9644.D	11/11/25 18:38	n/a	Initial cal 0.04
ECS491-IC491	CS9645.D	11/11/25 19:02	n/a	Initial cal 0.1
ECS491-ICC491	CS9646.D	11/11/25 19:26	n/a	Initial cal 0.2
ECS491-IC491	CS9647.D	11/11/25 19:51	n/a	Initial cal 0.5
ECS491-IC491	CS9648.D	11/11/25 20:15	n/a	Initial cal 1
ECS491-IC491	CS9649.D	11/11/25 20:39	n/a	Initial cal 2
ECS491-ICV491	CS9650.D	11/11/25 21:03	n/a	Initial cal verification 0.2
ECS491-ICV491	CS9651.D	11/11/25 21:27	n/a	Initial cal verification 1

Run Sequence Report

Job Number: JE23960
Account: MTXFPNJ Matrix New World Engineering, Inc.
Project: NJ Transit Linden Station Parking Lot, Linden, NJ

Run ID: ECS503 **Method:** SW846 8270E BY SIM **Instrument ID:** GCMSCS

Lab Sample ID	Lab File ID	Date/Time Analyzed	Prep QC Batch	Client Sample ID
ECS503-CC491	CS9981.D	11/25/25 17:29	n/a	Continuing cal 0.2
OP69305A-MB1	CS9983.D	11/25/25 18:17	OP69305A	Method Blank
JE23960-3	CS9984.D	11/25/25 18:40	OP69305A	FB-1
OP69305A-BS12	CS9985.D	11/25/25 19:04	OP69305A	Blank Spike
OP69305A-BSD12	CS9986.D	11/25/25 19:27	OP69305A	Blank Spike Duplicate
ZZZZZZ	CS9987.D	11/25/25 19:51	OP69305A	(unrelated sample)
ZZZZZZ	CS9988.D	11/25/25 20:14	OP69305A	(unrelated sample)
ZZZZZZ	CS9989.D	11/25/25 20:37	OP69305A	(unrelated sample)
ZZZZZZ	CS9990.D	11/25/25 21:01	OP69305A	(unrelated sample)
ZZZZZZ	CS9991.D	11/25/25 21:24	OP69305A	(unrelated sample)
JE23960-1	CS9992.D	11/25/25 21:48	OP69305A	MW-1
JE23960-2	CS9993.D	11/25/25 22:12	OP69305A	MW-2
ZZZZZZ	CS9994.D	11/25/25 22:36	OP69305A	(unrelated sample)
ZZZZZZ	CS9995.D	11/25/25 23:00	OP69305A	(unrelated sample)
ZZZZZZ	CS9996.D	11/25/25 23:25	OP69305A	(unrelated sample)
ZZZZZZ	CS9997.D	11/25/25 23:49	OP69305A	(unrelated sample)
ZZZZZZ	CS9998.D	11/26/25 00:13	OP69305A	(unrelated sample)
ZZZZZZ	CS9999.D	11/26/25 00:38	OP69305A	(unrelated sample)
ZZZZZZ	CS10000.D	11/26/25 01:02	OP69305A	(unrelated sample)
ZZZZZZ	CS10001.D	11/26/25 01:26	OP69305A	(unrelated sample)
ZZZZZZ	CS10002.D	11/26/25 01:50	OP69305A	(unrelated sample)
ZZZZZZ	CS10003.D	11/26/25 02:15	OP69305A	(unrelated sample)
ZZZZZZ	CS10004.D	11/26/25 02:39	OP69305A	(unrelated sample)
ZZZZZZ	CS10005.D	11/26/25 03:04	OP69305A	(unrelated sample)
ZZZZZZ	CS10006.D	11/26/25 03:28	OP69236A	(unrelated sample)
ZZZZZZ	CS10007.D	11/26/25 03:52	OP69236A	(unrelated sample)
ZZZZZZ	CS10008.D	11/26/25 04:17	OP69234A	(unrelated sample)

MS Semi-volatiles

Raw Data

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1 Inst : GCMS3P
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 27 13:42:10 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Thu Nov 27 07:37:42 2025
Response via : Initial Calibration

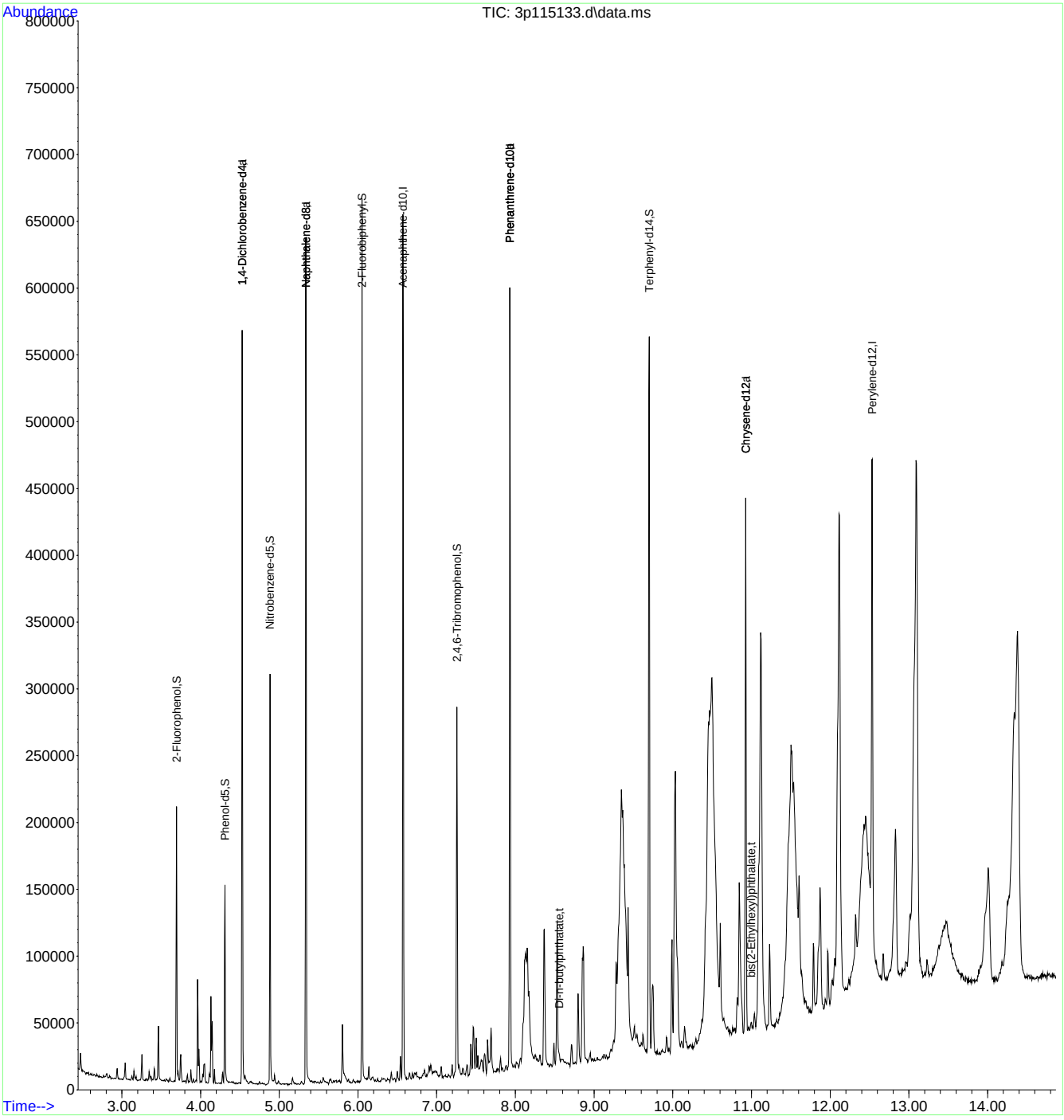
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.528	152	56502	8.00	ppm	0.00
24) Naphthalene-d8	5.336	136	210638	8.00	ppm	0.00
46) Acenaphthene-d10	6.571	164	106458	8.00	ppm	0.00
69) Phenanthrene-d10	7.930	188	189555	8.00	ppm	0.00
84) Chrysene-d12	10.925	240	137952	8.00	ppm	0.00
93) Perylene-d12	12.535	264	136469	8.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.528	152	56502	8.00	ppm	0.00
105) Phenanthrene-d10a	7.930	188	189555	8.00	ppm	0.00
107) Naphthalene-d8a	5.336	136	210638	8.00	ppm	0.00
109) Chrysene-d12a	10.925	240	137952	8.00	ppm	0.00
111) Phenanthrene-d10b	7.930	188	189555	8.00	ppm	# 0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.694	112	37717	4.17	ppm	0.01
Spiked Amount 10.000			Recovery =	41.70%		
8) Phenol-d5	4.309	99	34423	2.97	ppm	0.01
Spiked Amount 10.000			Recovery =	29.70%		
25) Nitrobenzene-d5	4.881	82	65662	6.36	ppm	0.00
Spiked Amount 10.000			Recovery =	63.60%		
51) 2-Fluorobiphenyl	6.053	172	140554	7.11	ppm	0.00
Spiked Amount 10.000			Recovery =	71.10%		
74) 2,4,6-Tribromophenol	7.256	330	23967	9.09	ppm	0.00
Spiked Amount 10.000			Recovery =	90.90%		
87) Terphenyl-d14	9.700	244	169751	8.62	ppm	0.00
Spiked Amount 10.000			Recovery =	86.20%		
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 10.000			Recovery =	0.00%		
113) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 10.000			Recovery =	0.00%		
Target Compounds						Qvalue
81) Di-n-butylphthalate	8.556	149	2173	0.0709	ppm	98
92) bis(2-Ethylhexyl)phtha...	10.995	149	1596	0.1067	ppm	97

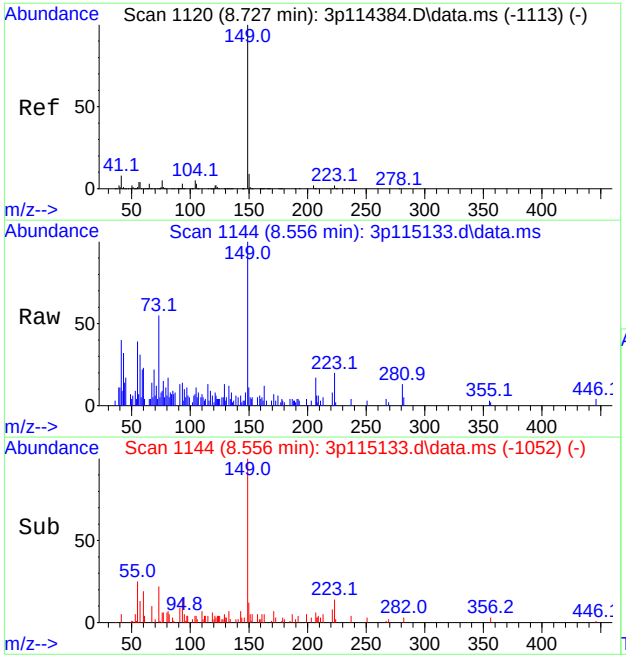
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1 Inst : GCMS3P
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Time: Nov 27 13:42:10 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Thu Nov 27 07:37:42 2025
Response via : Initial Calibration

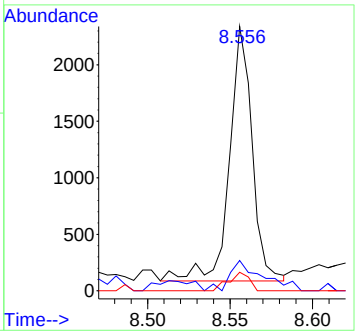


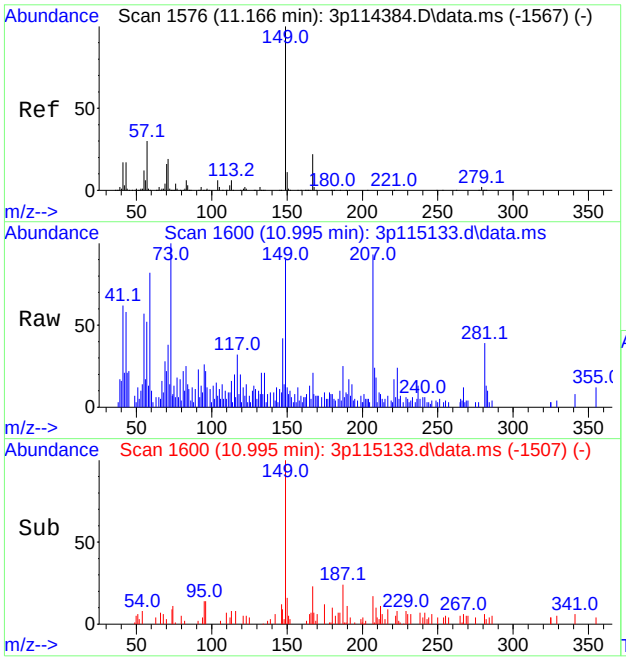


#81
Di-n-butylphthalate
Concen: 0.0709 ppm
RT: 8.556 min Scan# 1144
Delta R.T. -0.005 min
Lab File: 3p115133.d
Acq: 26 Nov 2025 11:53 pm

Tgt Ion:149 Resp: 2173

Ion	Ratio	Lower	Upper
149	100		
150	9.6	0.0	39.1
104	4.0	0.0	34.6

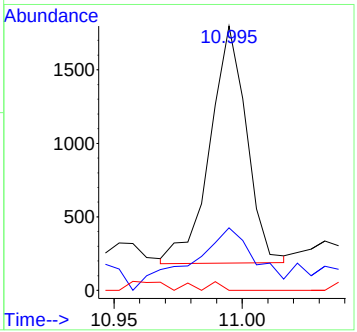




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.1067 ppm
RT: 10.995 min Scan# 1600
Delta R.T. 0.000 min
Lab File: 3p115133.d
Acq: 26 Nov 2025 11:53 pm

Tgt Ion:149 Resp: 1596

Ion	Ratio	Lower	Upper
149	100		
167	20.2	0.0	51.6
279	0.0	0.0	32.0



LSC Area Percent Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

Signal : TIC: 3p115133.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.336	537	542	553	rBV	634001	417460	21.79%	2.217%
2	5.555	579	583	596	rVB	5251	11854	0.62%	0.063%
3	5.651	596	601	606	rBV7	4220	7518	0.39%	0.040%
4	5.801	625	629	641	rBV2	43922	46607	2.43%	0.248%
5	6.053	670	676	687	rBV	661522	428312	22.36%	2.275%
6	6.138	687	692	697	rVB2	10223	8986	0.47%	0.048%
7	6.422	742	745	750	rBV7	7333	9237	0.48%	0.049%
8	6.502	756	760	764	rBV	7525	8779	0.46%	0.047%
9	6.539	764	767	770	rBV	17947	13374	0.70%	0.071%
10	6.571	770	773	783	rVB	646986	479618	25.04%	2.547%
11	6.844	815	824	828	rBV8	5963	9183	0.48%	0.049%
12	6.903	828	835	837	rBV2	8051	10510	0.55%	0.056%
13	7.058	858	864	868	rVB7	8745	9578	0.50%	0.051%
14	7.197	885	890	893	rBV3	9718	8274	0.43%	0.044%
15	7.256	893	901	911	rBV	277316	239177	12.49%	1.270%
16	7.384	919	925	929	rVB2	7294	7641	0.40%	0.041%
17	7.433	929	934	937	rBV	22808	20828	1.09%	0.111%
18	7.465	937	940	944	rVB3	31295	32316	1.69%	0.172%
19	7.502	944	947	949	rBV2	23051	18294	0.96%	0.097%
20	7.524	949	951	954	rVB	10338	6250	0.33%	0.033%
21	7.566	954	959	964	rVB4	8627	14940	0.78%	0.079%
22	7.609	964	967	971	rVB2	14755	19555	1.02%	0.104%
23	7.647	971	974	979	rBV	25457	32130	1.68%	0.171%
24	7.689	979	982	990	rVB	32318	35328	1.84%	0.188%
25	7.812	1002	1005	1008	rBV5	10251	10183	0.53%	0.054%
26	7.930	1021	1027	1034	rBV	585753	485589	25.35%	2.579%
27	8.010	1040	1042	1048	rBV5	4427	6860	0.36%	0.036%
28	8.064	1048	1052	1054	rBV3	7162	9651	0.50%	0.051%
29	8.128	1054	1064	1066	rBV2	80690	180543	9.43%	0.959%
30	8.149	1066	1068	1083	rVB2	82468	168625	8.80%	0.895%
31	8.310	1095	1098	1102	rVB4	7472	8784	0.46%	0.047%
32	8.369	1102	1109	1120	rVB2	102814	127366	6.65%	0.676%
33	8.492	1127	1132	1135	rBV2	18030	18741	0.98%	0.100%
34	8.529	1135	1139	1147	rBV2	106267	109245	5.70%	0.580%
35	8.711	1168	1173	1179	rBV6	14563	16672	0.87%	0.089%
36	8.796	1185	1189	1195	rBV2	52425	55320	2.89%	0.294%
37	8.861	1195	1201	1212	rVB	86782	148549	7.76%	0.789%
38	8.952	1212	1218	1221	rBV3	7059	9582	0.50%	0.051%
39	9.128	1241	1251	1255	rBV3	4735	10170	0.53%	0.054%
40	9.214	1259	1267	1269	rBV5	7326	12479	0.65%	0.066%

LSC Area Percent Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

41	9.278	1269	1279	1282	rBV2	66749	106328	5.55%	0.565%
42	9.347	1282	1292	1306	rVV	184716	868870	45.36%	4.614%
43	9.433	1306	1308	1318	rVB	99158	103327	5.39%	0.549%
44	9.513	1318	1323	1327	rBV2	10529	12229	0.64%	0.065%
45	9.545	1327	1329	1335	rVB5	8840	9767	0.51%	0.052%
46	9.620	1341	1343	1351	rVB7	13019	15893	0.83%	0.084%
47	9.700	1351	1358	1362	rBV	535318	509886	26.62%	2.708%
48	9.743	1362	1366	1374	rVB2	51149	82098	4.29%	0.436%
49	9.866	1384	1389	1395	rBV9	3715	6759	0.35%	0.036%
50	9.920	1395	1399	1403	rBV3	11786	12870	0.67%	0.068%
51	9.989	1408	1412	1415	rBV	85080	92025	4.80%	0.489%
52	10.032	1415	1420	1432	rVB	205930	432094	22.56%	2.295%
53	10.150	1438	1442	1451	rBV6	16256	22932	1.20%	0.122%
54	10.294	1462	1469	1471	rBV5	7616	10967	0.57%	0.058%
55	10.497	1471	1507	1524	rBV3	274104	1915459	100.00%	10.172%
56	10.604	1524	1527	1533	rVV	74352	82905	4.33%	0.440%
57	10.647	1533	1535	1542	rVB6	8220	11225	0.59%	0.060%
58	10.845	1563	1572	1582	rVB3	112979	217396	11.35%	1.154%
59	10.925	1582	1587	1592	rBV	400893	384428	20.07%	2.041%
60	11.000	1596	1601	1604	rBV6	6329	8223	0.43%	0.044%
61	11.038	1604	1608	1611	rBV4	11340	12800	0.67%	0.068%
62	11.118	1611	1623	1637	rVB	297039	727675	37.99%	3.864%
63	11.230	1637	1644	1650	rBV	63916	71736	3.75%	0.381%
64	11.321	1656	1661	1664	rBV6	5856	8946	0.47%	0.048%
65	11.503	1664	1695	1712	rBV2	208544	1451970	75.80%	7.711%
66	11.605	1712	1714	1728	rVV	101124	182322	9.52%	0.968%
67	11.786	1742	1748	1754	rBV	52339	61734	3.22%	0.328%
68	11.872	1754	1764	1773	rVB2	91039	191370	9.99%	1.016%
69	11.936	1773	1776	1779	rBV5	7867	8690	0.45%	0.046%
70	11.968	1779	1782	1787	rVV	42006	47628	2.49%	0.253%
71	12.027	1787	1793	1795	rVV5	20051	35472	1.85%	0.188%
72	12.059	1795	1799	1801	rVV5	35958	58161	3.04%	0.309%
73	12.113	1801	1809	1822	rVV	367893	881733	46.03%	4.682%
74	12.193	1822	1824	1826	rVV3	12709	15086	0.79%	0.080%
75	12.209	1826	1827	1828	rVV	12445	7531	0.39%	0.040%
76	12.236	1828	1832	1833	rVV4	18733	24451	1.28%	0.130%
77	12.321	1833	1848	1852	rVV	66711	207527	10.83%	1.102%
78	12.450	1852	1872	1883	rVV	139090	1013387	52.91%	5.382%
79	12.535	1883	1888	1910	rVV	404983	675114	35.25%	3.585%
80	12.674	1910	1914	1921	rVV2	34000	74073	3.87%	0.393%
81	12.722	1921	1923	1924	rVV2	16584	15001	0.78%	0.080%
82	12.829	1924	1943	1952	rVV	126137	410561	21.43%	2.180%
83	12.883	1952	1953	1957	rVV4	17861	27813	1.45%	0.148%
84	12.963	1957	1968	1971	rVV4	25890	97330	5.08%	0.517%
85	13.091	1971	1992	2009	rVV2	399650	1481958	77.37%	7.870%

LSC Area Percent Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

86	13.204	2009	2013	2014	rVV4	16115	23136	1.21%	0.123%
87	13.231	2014	2018	2023	rVV7	25166	53068	2.77%	0.282%
88	13.284	2023	2028	2029	rVV5	14557	26891	1.40%	0.143%
89	13.450	2029	2059	2060	rVV3	49265	310648	16.22%	1.650%
90	13.471	2060	2063	2096	rVV4	50692	334100	17.44%	1.774%
91	13.653	2096	2097	2099	rVV2	11294	9726	0.51%	0.052%
92	13.680	2099	2102	2109	rVV9	10484	25096	1.31%	0.133%
93	13.723	2109	2110	2114	rVV4	8151	10159	0.53%	0.054%
94	13.830	2125	2130	2131	rVV5	5203	8868	0.46%	0.047%
95	13.910	2131	2145	2146	rVV5	15121	40669	2.12%	0.216%
96	14.006	2146	2163	2173	rVV2	87280	364950	19.05%	1.938%
97	14.183	2185	2196	2198	rVV2	15799	36912	1.93%	0.196%
98	14.338	2198	2225	2227	rVV4	200895	810300	42.30%	4.303%
99	14.380	2227	2233	2251	rVV3	260791	796919	41.60%	4.232%
100	14.760	2303	2304	2313	rBV9	4578	9368	0.49%	0.050%

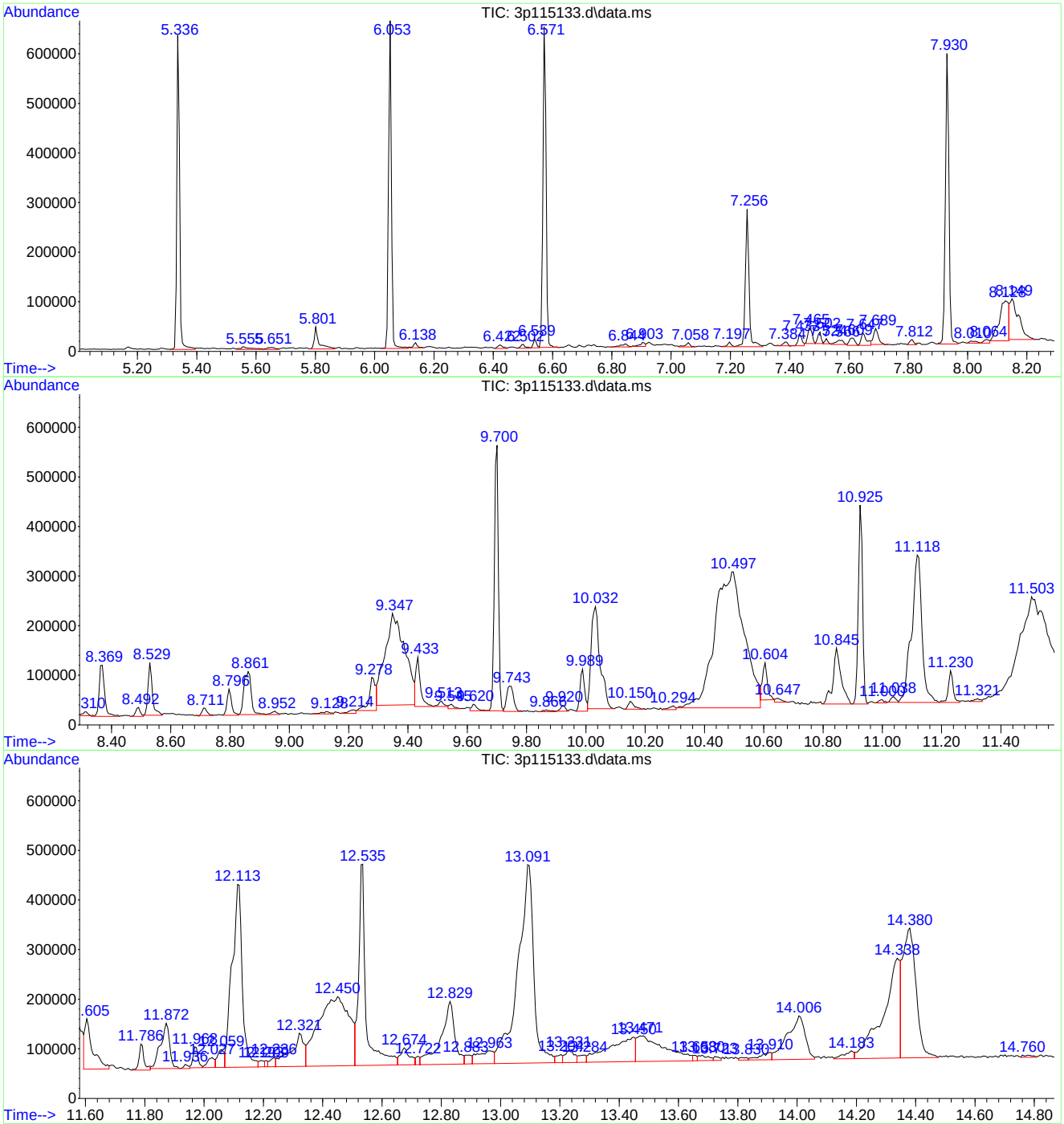
Sum of corrected areas: 18830668

LSC Report - Integrated Chromatogram

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

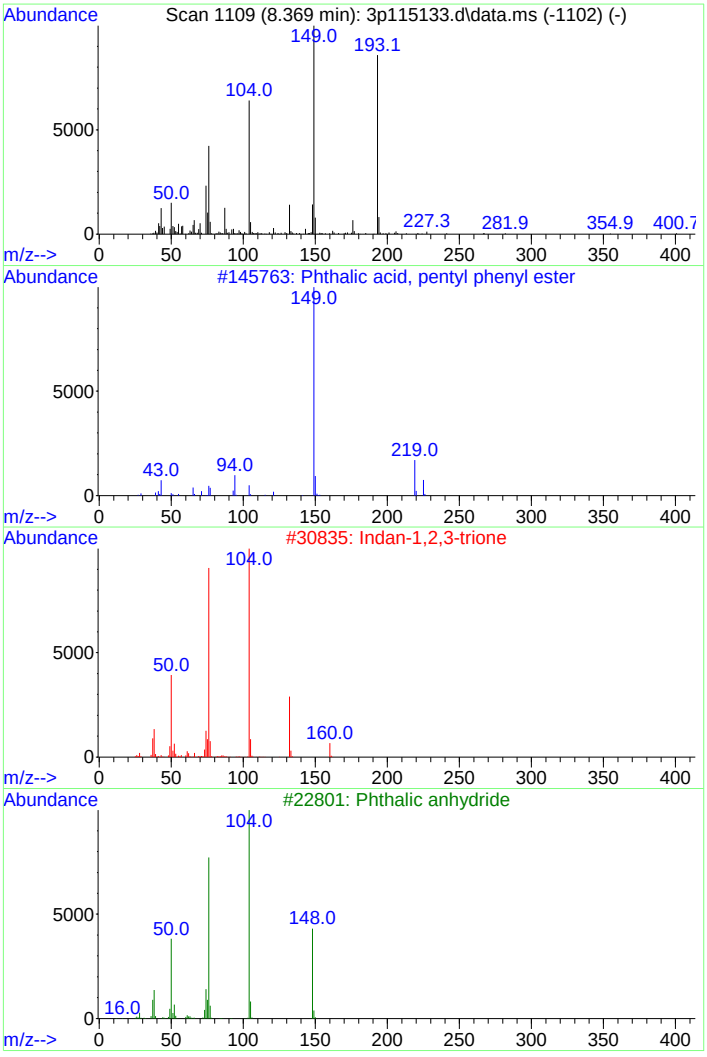
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

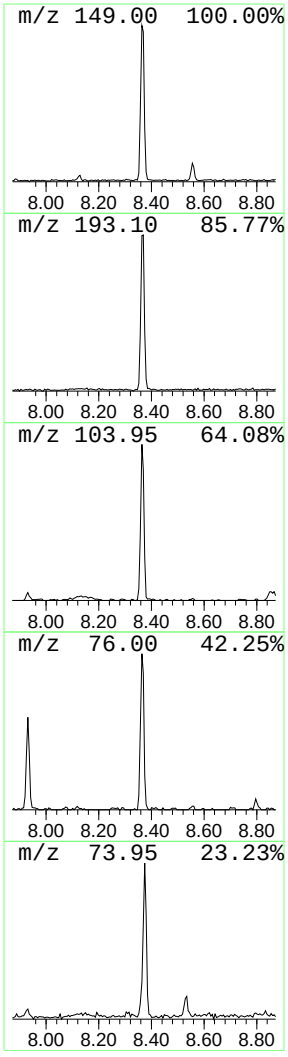
****

Peak Number 3 Unknown Concentration Rank 23

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.369	2.10 ppm	127366	Phenanthrene-d10b	7.930

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Phthalic acid, pentyl phenyl ester	312	C19H20O4	1000314-87-1	14
2	Indan-1,2,3-trione	160	C9H4O3	000938-24-9	14
3	Phthalic anhydride	148	C8H4O3	000085-44-9	14
4	m-Nitrobenzaldehyde dimethylhydr...	193	C9H11N3O2	032787-76-1	14
5	1-Methyl-5-nitro-1H-benzoimidazo...	193	C8H7N3O3	066108-85-8	14





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

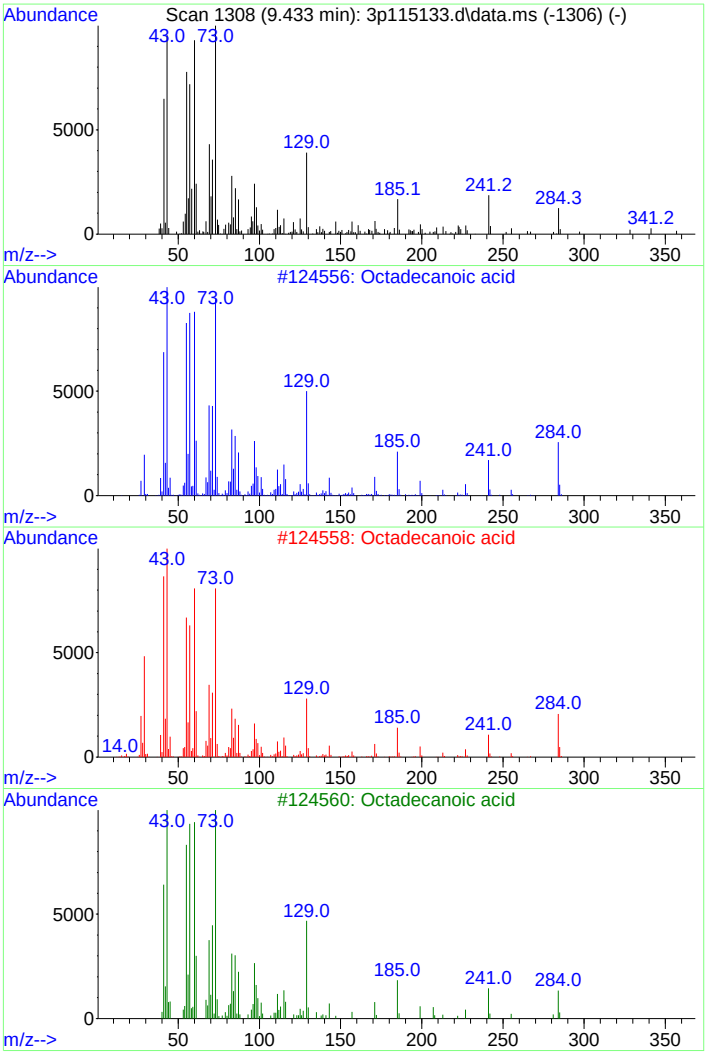
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

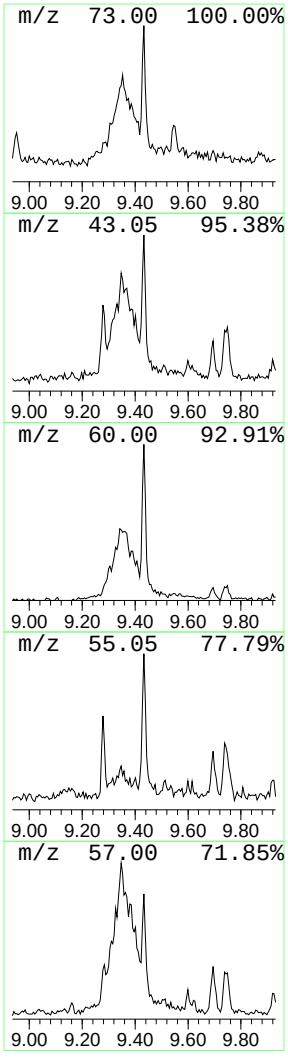
****

Peak Number 7 Octadecanoic acid Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.433	2.15 ppm	103327	Chrysene-d12	10.925

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	96
2	Octadecanoic acid	284	C18H36O2	000057-11-4	94
3	Octadecanoic acid	284	C18H36O2	000057-11-4	94
4	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
5	Pentadecanoic acid	242	C15H30O2	001002-84-2	91





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

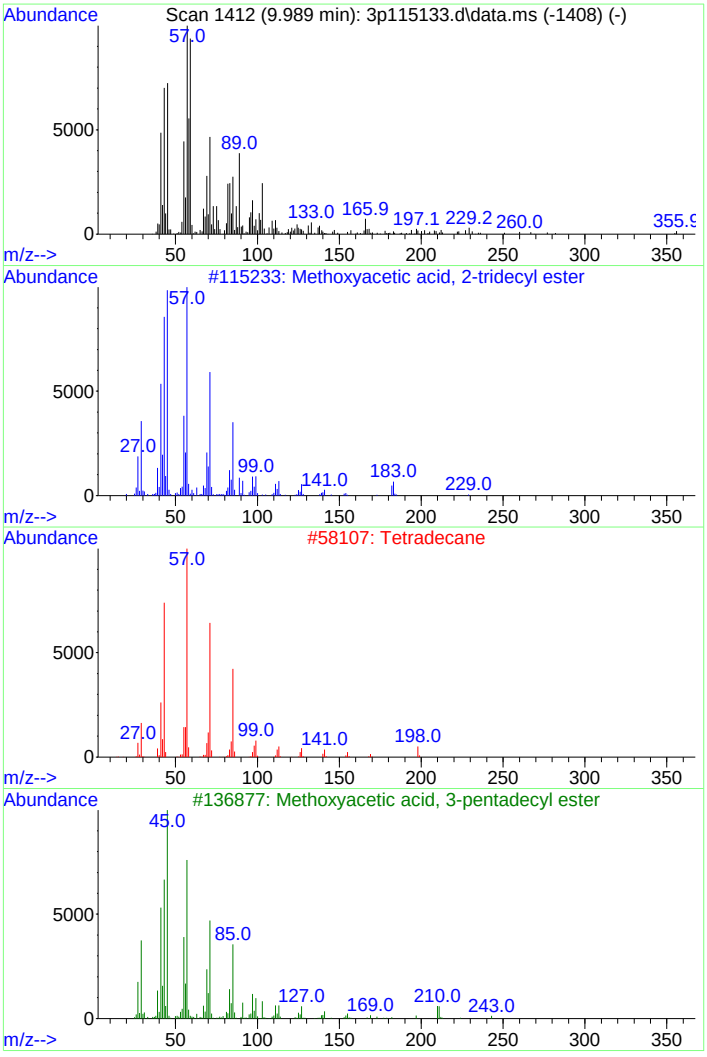
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

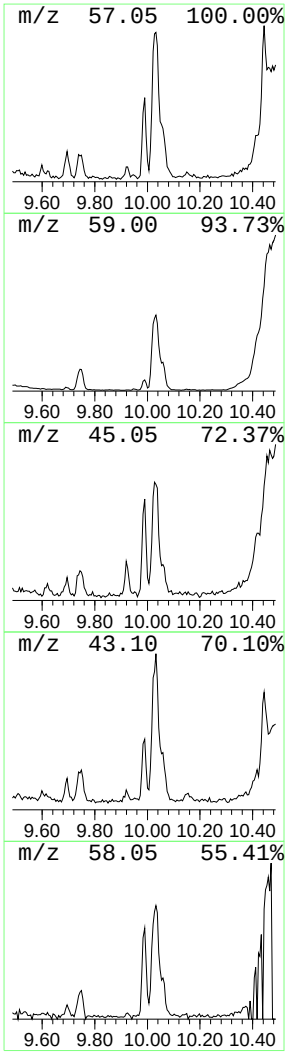
****

Peak Number 8 Unknown Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.989	1.92 ppm	92025	Chrysene-d12	10.925

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Methoxyacetic acid, 2-tridecyl e...	272	C16H32O3	1000282-04-5	30
2	Tetradecane	198	C14H30	000629-59-4	25
3	Methoxyacetic acid, 3-pentadecyl...	300	C18H36O3	1000282-05-2	22
4	2-Undecanone, 6,10-dimethyl-	198	C13H26O	001604-34-8	18
5	Hexadecane, 1-chloro-	260	C16H33Cl	004860-03-1	15





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

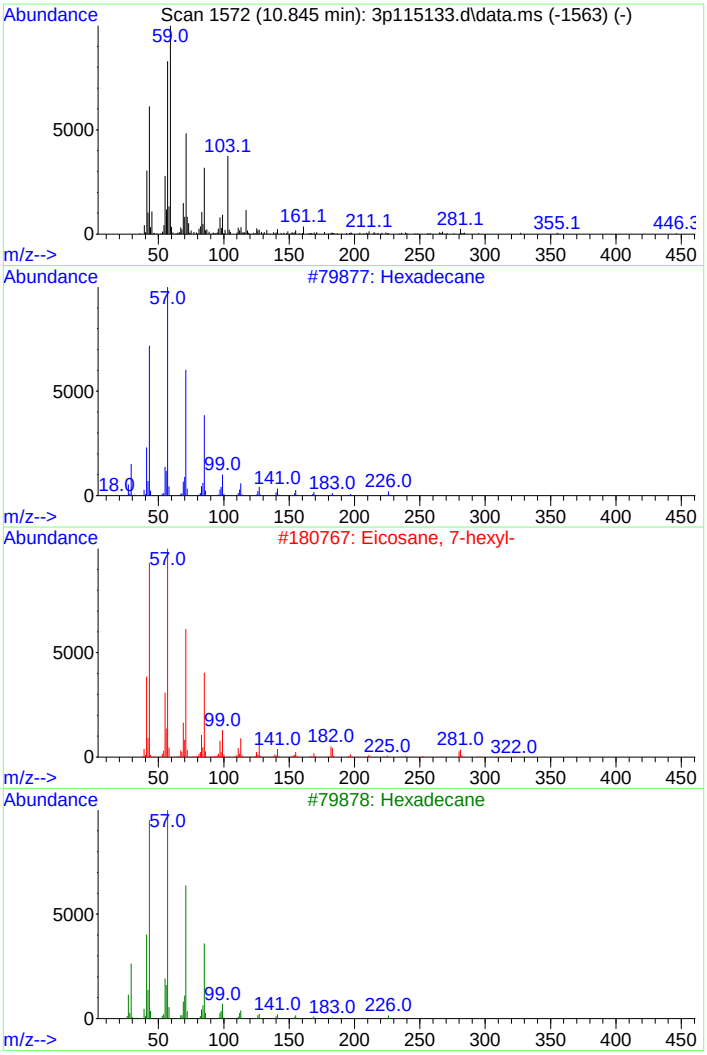
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

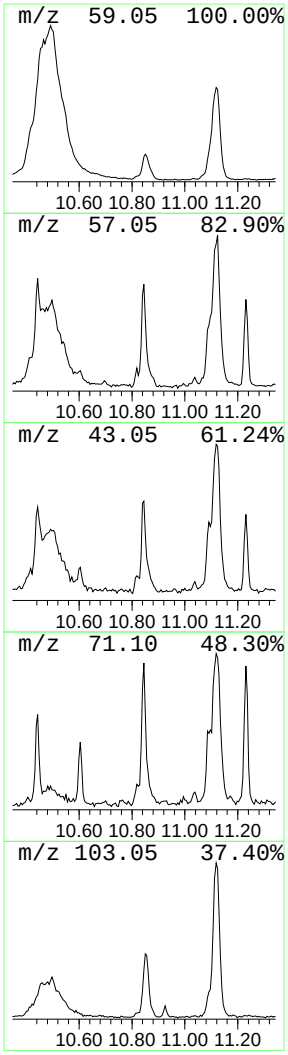
****

Peak Number 11 Alkane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.845	4.52 ppm	217396	Chrysene-d12	10.925

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	83
2	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	41
3	Hexadecane	226	C16H34	000544-76-3	38
4	Methane, diethoxy-	104	C5H12O2	000462-95-3	38
5	Methane, diethoxy-	104	C5H12O2	000462-95-3	38





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

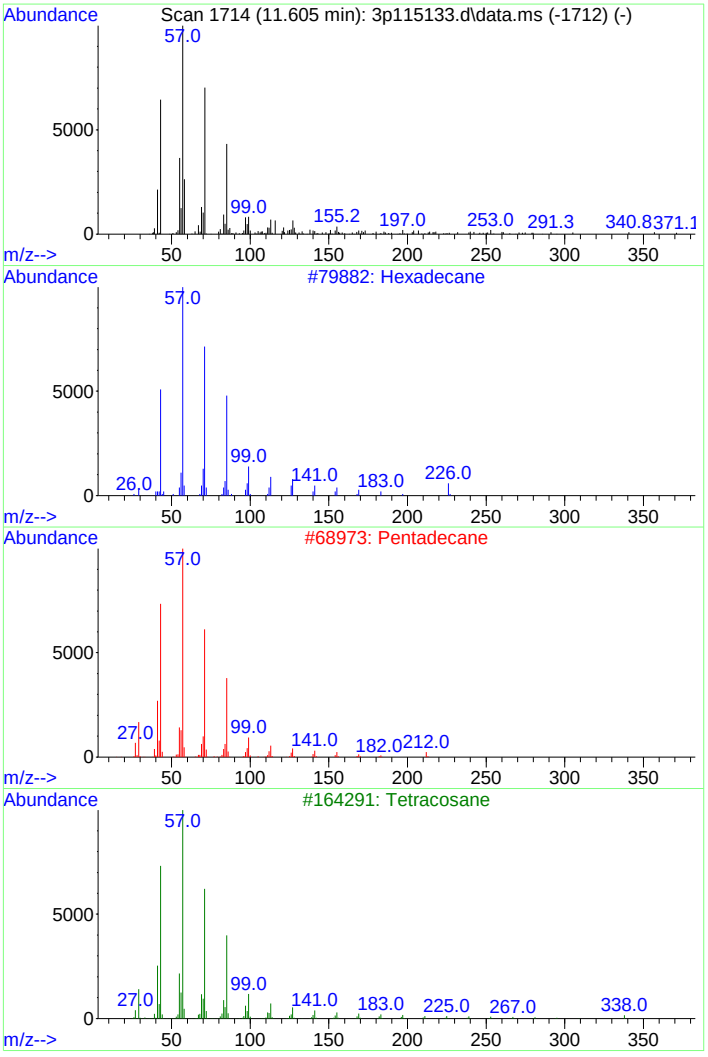
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

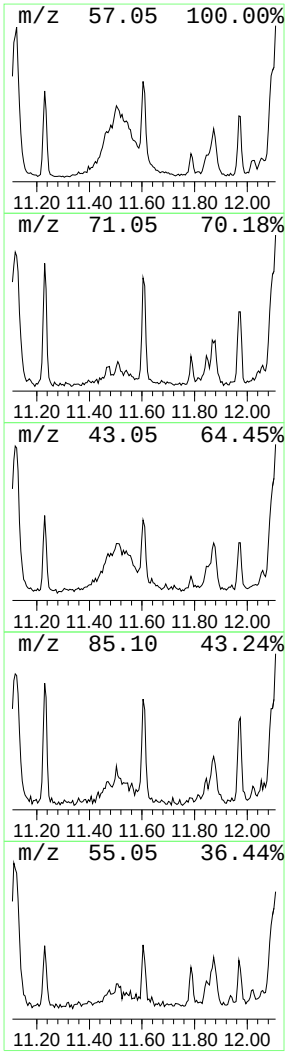
****

Peak Number 14 Alkane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.605	3.79 ppm	182322	Chrysene-d12a	10.925

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	76
2	Pentadecane	212	C15H32	000629-62-9	68
3	Tetracosane	338	C24H50	000646-31-1	64
4	Tetradecane	198	C14H30	000629-59-4	64
5	Hexadecane	226	C16H34	000544-76-3	64





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

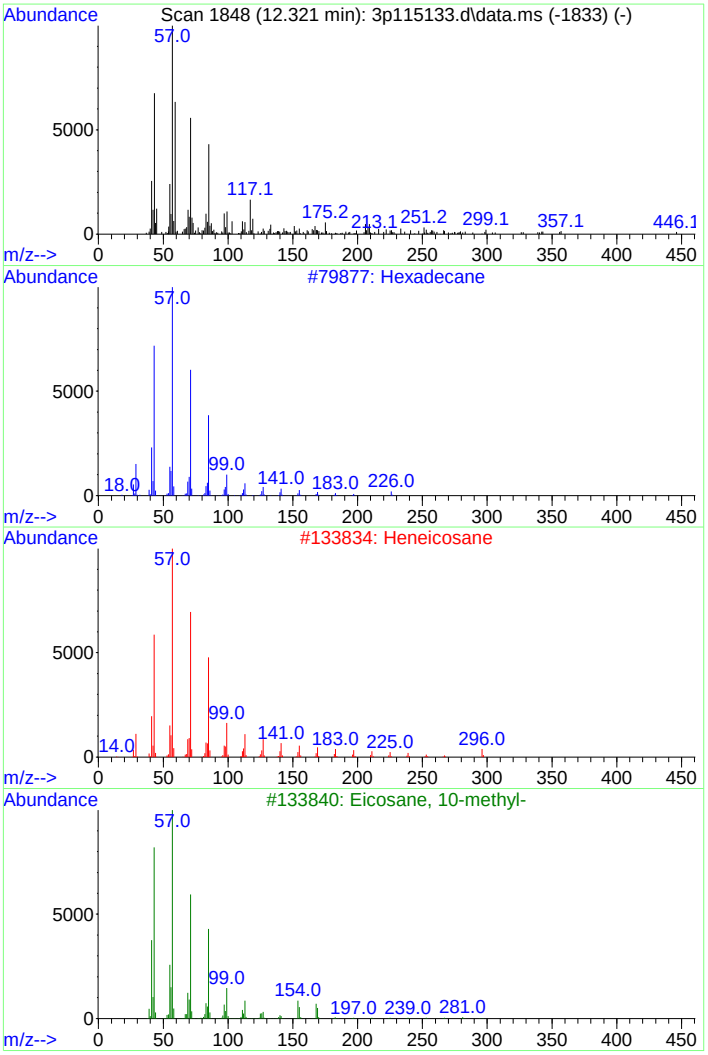
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

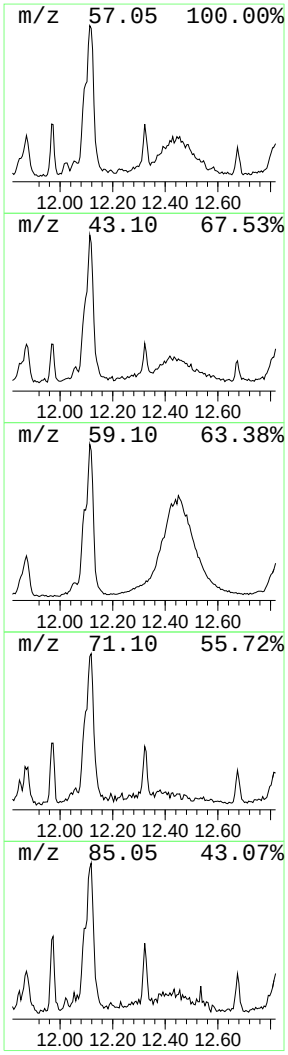
****

Peak Number 17 Alkane Concentration Rank 19

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.321	2.46 ppm	207527	Perylene-d12	12.535

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	78
2	Heneicosane	296	C21H44	000629-94-7	60
3	Eicosane, 10-methyl-	296	C21H44	054833-23-7	60
4	Tetracosane	338	C24H50	000646-31-1	52
5	Hexadecane	226	C16H34	000544-76-3	49





M3P5401LVI.M Fri Nov 28 01:46:55 2025 Page: 10

Tentatively Identified Compound (LSC) summary

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115133.d
Acq On : 26 Nov 2025 11:53 pm
Operator : thomasl
Sample : je23960-1
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 24 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	8.369	2.1	ppm	127366	8	7.930	485589	8.0
Octadecanoic acid	9.433	2.1	ppm	103327	9	10.925	384428	8.0
Unknown	9.989	1.9	ppm	92025	9	10.925	384428	8.0
Alkane	10.845	4.5	ppm	217396	9	10.925	384428	8.0
Alkane	11.605	3.8	ppm	182322	10	10.925	384428	8.0
Alkane	12.321	2.5	ppm	207527	11	12.535	675114	8.0

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2 Inst : GCMS3P
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 27 13:44:49 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Thu Nov 27 07:37:42 2025
Response via : Initial Calibration

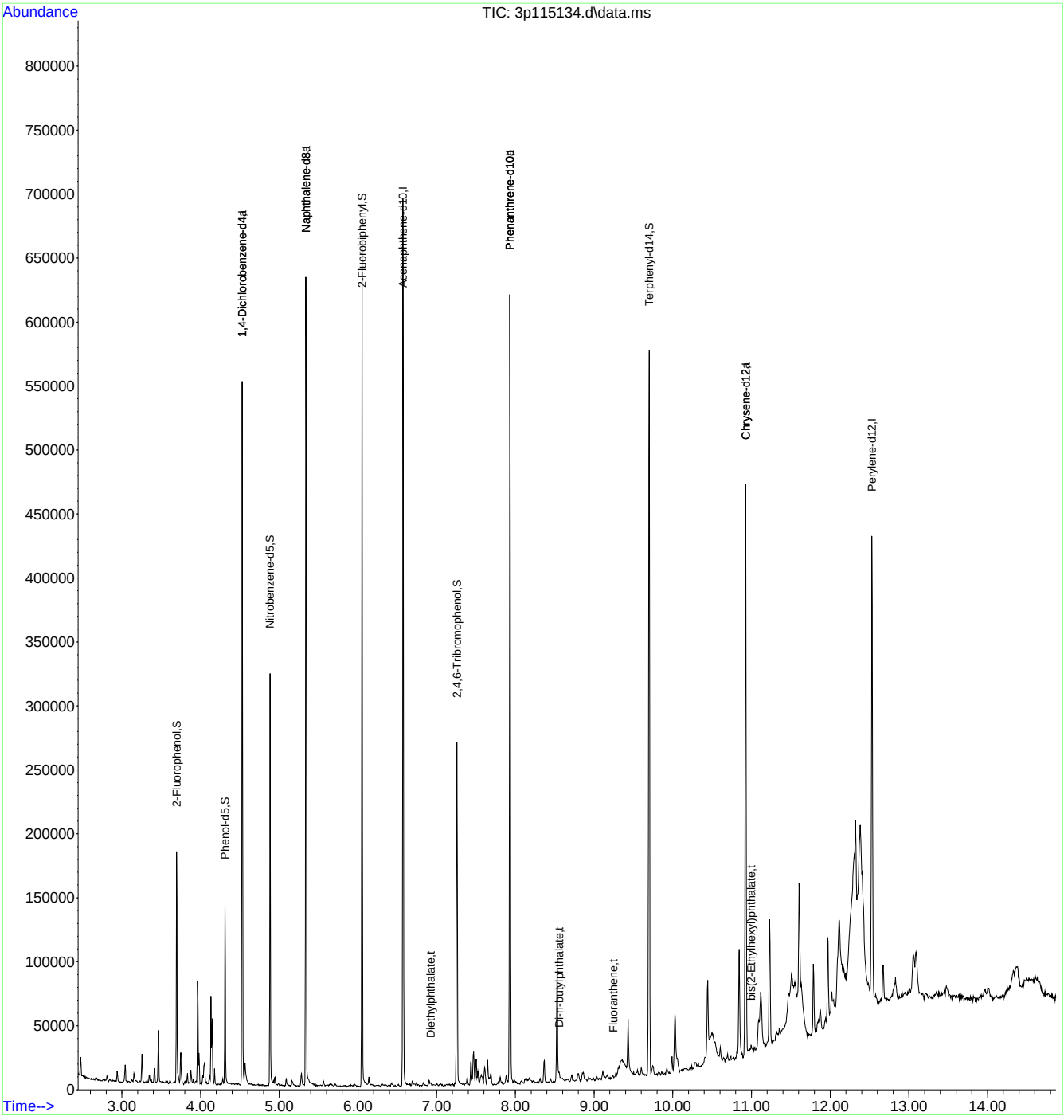
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-Dichlorobenzene-d4	4.528	152	56696	8.00	ppm	0.00
24) Naphthalene-d8	5.336	136	217522	8.00	ppm	0.00
46) Acenaphthene-d10	6.571	164	111211	8.00	ppm	0.00
69) Phenanthrene-d10	7.930	188	200358	8.00	ppm	0.00
84) Chrysene-d12	10.925	240	153342	8.00	ppm	0.00
93) Perylene-d12	12.530	264	133639	8.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.528	152	56696	8.00	ppm	0.00
105) Phenanthrene-d10a	7.930	188	200358	8.00	ppm	0.00
107) Naphthalene-d8a	5.336	136	217522	8.00	ppm	0.00
109) Chrysene-d12a	10.925	240	153342	8.00	ppm	0.00
111) Phenanthrene-d10b	7.930	188	200358	8.00	ppm	0.00
System Monitoring Compounds						
5) 2-Fluorophenol	3.694	112	37015	4.08	ppm	0.01
Spiked Amount 10.000			Recovery = 40.80%			
8) Phenol-d5	4.309	99	30551	2.63	ppm	0.01
Spiked Amount 10.000			Recovery = 26.30%			
25) Nitrobenzene-d5	4.881	82	70601	6.62	ppm	0.00
Spiked Amount 10.000			Recovery = 66.20%			
51) 2-Fluorobiphenyl	6.053	172	142751	6.91	ppm	0.00
Spiked Amount 10.000			Recovery = 69.10%			
74) 2,4,6-Tribromophenol	7.256	330	23884	8.57	ppm	0.00
Spiked Amount 10.000			Recovery = 85.70%			
87) Terphenyl-d14	9.700	244	180308	8.23	ppm	0.00
Spiked Amount 10.000			Recovery = 82.30%			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 10.000			Recovery = 0.00%			
113) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 10.000			Recovery = 0.00%			
Target Compounds						Qvalue
65) Diethylphthalate	6.924	149	377	0.0189	ppm	90
81) Di-n-butylphthalate	8.556	149	1457	0.0450	ppm	96
82) Fluoranthene	9.246	202	339	0.0109	ppm	82
92) bis(2-Ethylhexyl)phtha...	10.995	149	1508	0.0907	ppm	94

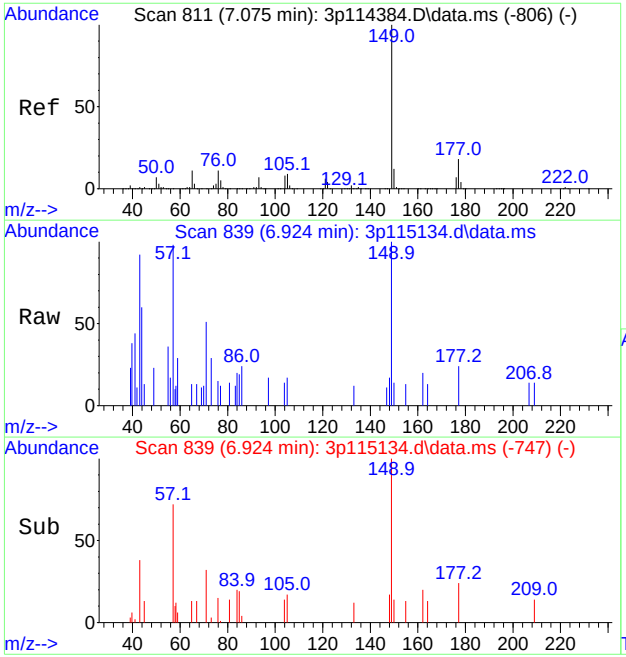
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2 Inst : GCMS3P
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Time: Nov 27 13:44:49 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Thu Nov 27 07:37:42 2025
Response via : Initial Calibration

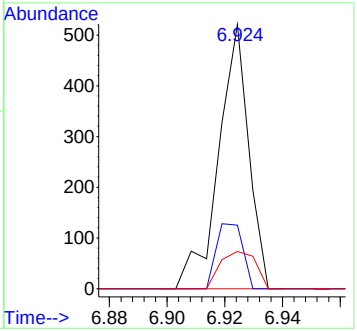


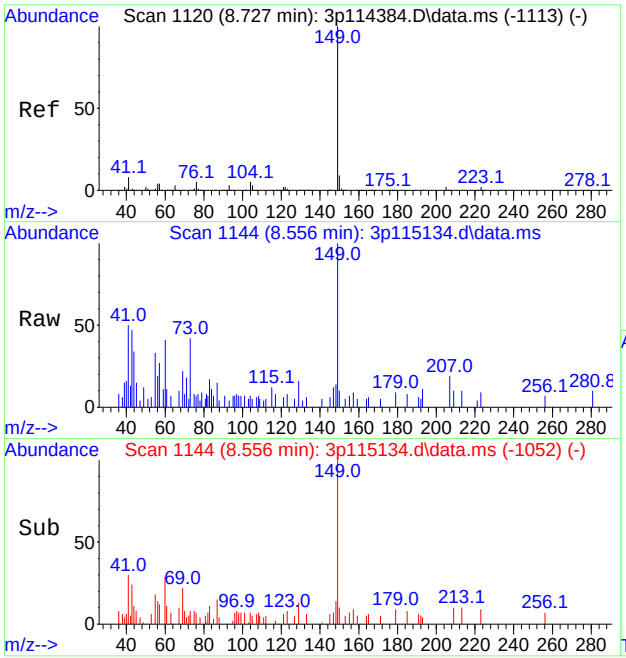


#65
Diethylphthalate
Concen: 0.0189 ppm
RT: 6.924 min Scan# 839
Delta R.T. -0.005 min
Lab File: 3p115134.d
Acq: 27 Nov 2025 12:13 am

Tgt Ion:149 Resp: 377

Ion	Ratio	Lower	Upper
149	100		
177	24.0	0.0	48.3
150	14.0	0.0	41.7

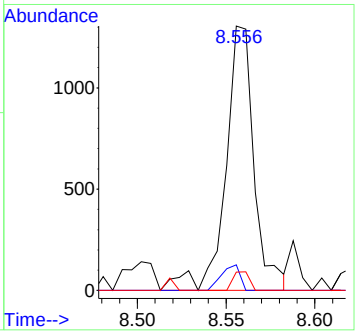


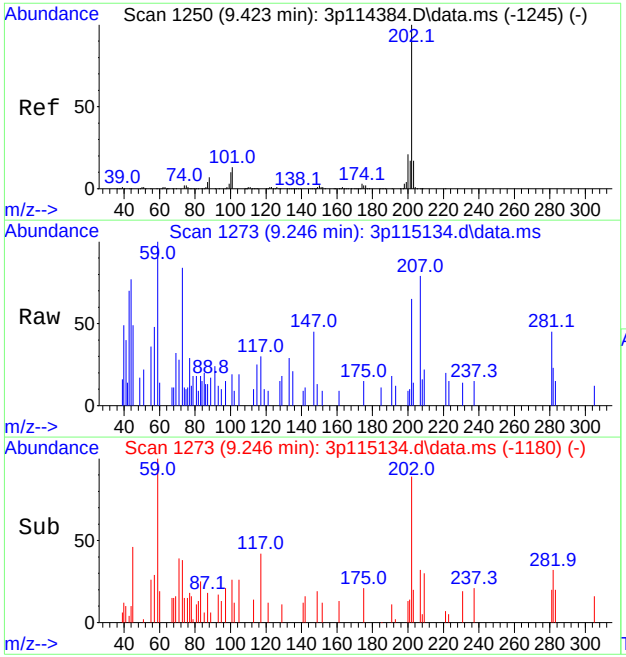


#81
Di-n-butylphthalate
Concen: 0.0450 ppm
RT: 8.556 min Scan# 1144
Delta R.T. -0.005 min
Lab File: 3p115134.d
Acq: 27 Nov 2025 12:13 am

Tgt Ion:149 Resp: 1457

Ion	Ratio	Lower	Upper
149	100		
150	10.0	0.0	39.1
104	7.1	0.0	34.6

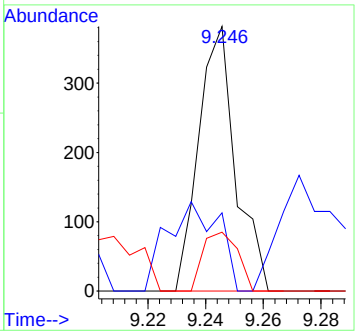


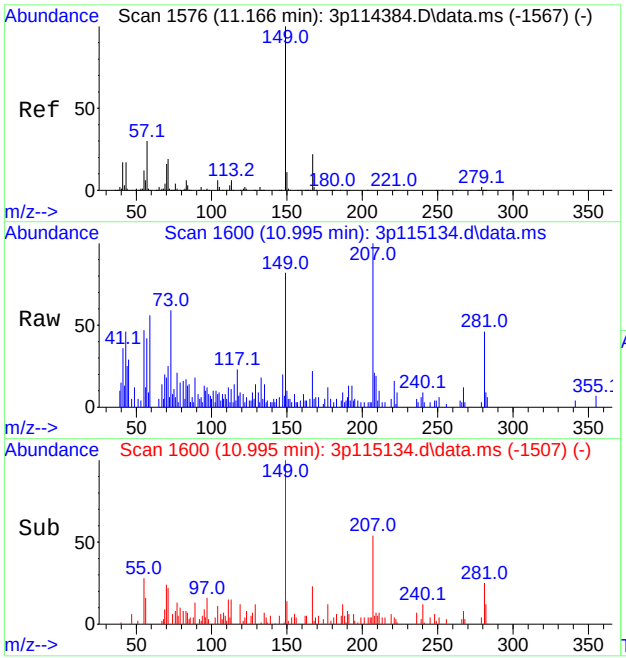


#82
Fluoranthene
Concen: 0.0109 ppm
RT: 9.246 min Scan# 1273
Delta R.T. -0.000 min
Lab File: 3p115134.d
Acq: 27 Nov 2025 12:13 am

Tgt Ion:202 Resp: 339

Ion	Ratio	Lower	Upper
202	100		
101	2.5	0.0	43.0
203	22.3	0.0	47.3

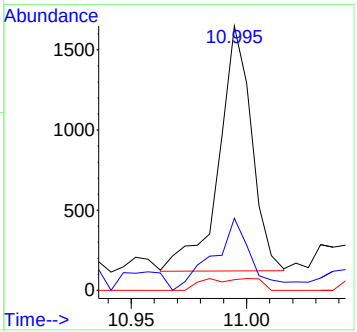




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.0907 ppm
RT: 10.995 min Scan# 1600
Delta R.T. -0.000 min
Lab File: 3p115134.d
Acq: 27 Nov 2025 12:13 am

Tgt Ion:149 Resp: 1508

Ion	Ratio	Lower	Upper
149	100		
167	24.4	0.0	51.6
279	4.4	0.0	32.0



LSC Area Percent Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

Signal : TIC: 3p115134.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	5.282	527	532	538	rBV	10146	12254	1.59%	0.134%
2	5.336	538	542	561	rVB	631691	434673	56.57%	4.762%
3	6.053	671	676	688	rBV	660325	432904	56.34%	4.743%
4	6.571	766	773	785	rBV	693815	505066	65.73%	5.533%
5	7.256	894	901	915	rBV	268661	225695	29.37%	2.473%
6	7.432	931	934	937	rBV	17836	17603	2.29%	0.193%
7	7.470	937	941	944	rVB2	22434	23028	3.00%	0.252%
8	7.502	944	947	949	rBV2	16931	14611	1.90%	0.160%
9	7.566	954	959	964	rBV5	6204	10690	1.39%	0.117%
10	7.609	964	967	971	rVB3	12737	14225	1.85%	0.156%
11	7.646	971	974	979	rBV	18478	20045	2.61%	0.220%
12	7.684	979	981	987	rVB2	8925	10528	1.37%	0.115%
13	7.807	995	1004	1008	rBV4	5722	9442	1.23%	0.103%
14	7.882	1012	1018	1021	rBV6	7466	8234	1.07%	0.090%
15	7.930	1021	1027	1034	rVB	615843	516635	67.23%	5.660%
16	8.369	1104	1109	1116	rBV2	17430	18080	2.35%	0.198%
17	8.529	1132	1139	1151	rBV2	87250	91296	11.88%	1.000%
18	8.802	1181	1190	1194	rBV10	6005	9256	1.20%	0.101%
19	8.861	1194	1201	1210	rBV4	6981	14789	1.92%	0.162%
20	9.112	1244	1248	1255	rBV9	6196	10085	1.31%	0.110%
21	9.358	1281	1294	1304	rBV5	12470	60348	7.85%	0.661%
22	9.433	1304	1308	1318	rVB	42529	48575	6.32%	0.532%
23	9.700	1351	1358	1363	rBV	566648	525281	68.36%	5.755%
24	9.743	1363	1366	1372	rVB5	6831	10045	1.31%	0.110%
25	9.925	1392	1400	1405	rBV5	5323	8913	1.16%	0.098%
26	9.989	1408	1412	1415	rBV4	13082	13995	1.82%	0.153%
27	10.027	1415	1419	1431	rVB3	44589	73377	9.55%	0.804%
28	10.283	1461	1467	1471	rBV8	5155	10248	1.33%	0.112%
29	10.444	1480	1497	1501	rBV	67488	106124	13.81%	1.163%
30	10.497	1501	1507	1522	rVB3	18246	71742	9.34%	0.786%
31	10.604	1522	1527	1531	rVB8	10483	13953	1.82%	0.153%
32	10.695	1538	1544	1548	rBV8	5857	8511	1.11%	0.093%
33	10.845	1561	1572	1581	rBV2	86398	114530	14.90%	1.255%
34	10.925	1581	1587	1593	rBV	448388	449862	58.54%	4.928%
35	11.118	1611	1623	1635	rBV2	45255	122091	15.89%	1.338%
36	11.230	1635	1644	1649	rBV	99250	108878	14.17%	1.193%
37	11.321	1649	1661	1663	rBV	8529	16904	2.20%	0.185%
38	11.508	1676	1696	1701	rBV3	42663	171260	22.29%	1.876%
39	11.551	1701	1704	1709	rVV6	35503	78135	10.17%	0.856%
40	11.604	1709	1714	1733	rVB	119418	264891	34.47%	2.902%

LSC Area Percent Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

41	11.786	1742	1748	1755	rBV	55871	61279	7.97%	0.671%
42	11.872	1755	1764	1770	rBV4	17466	39573	5.15%	0.434%
43	11.968	1770	1782	1787	rBV	70667	100796	13.12%	1.104%
44	12.022	1787	1792	1800	rVV4	24805	66629	8.67%	0.730%
45	12.113	1800	1809	1823	rVV2	80218	347378	45.21%	3.806%
46	12.193	1823	1824	1826	rVV2	38153	33805	4.40%	0.370%
47	12.321	1826	1848	1852	rVV3	157089	768413	100.00%	8.418%
48	12.380	1852	1859	1882	rVV5	152168	756563	98.46%	8.288%
49	12.530	1882	1887	1893	rVV	377540	442292	57.56%	4.845%
50	12.578	1893	1896	1900	rVV6	19024	36864	4.80%	0.404%
51	12.610	1900	1902	1904	rVV3	13775	16906	2.20%	0.185%
52	12.674	1904	1914	1921	rVV2	41480	105651	13.75%	1.157%
53	12.722	1921	1923	1929	rVV7	14990	35755	4.65%	0.392%
54	12.829	1929	1943	1951	rVV10	30277	135256	17.60%	1.482%
55	12.877	1951	1952	1954	rVV2	15696	14115	1.84%	0.155%
56	12.915	1954	1959	1961	rVV6	18207	34807	4.53%	0.381%
57	12.952	1961	1966	1971	rVV9	17972	54230	7.06%	0.594%
58	13.006	1971	1976	1978	rVV6	20975	41797	5.44%	0.458%
59	13.054	1978	1985	1989	rVV4	47078	117993	15.36%	1.293%
60	13.091	1989	1992	2006	rVV4	48094	146099	19.01%	1.601%
61	13.172	2006	2007	2011	rVV4	15733	22312	2.90%	0.244%
62	13.220	2011	2016	2021	rVV9	15171	45074	5.87%	0.494%
63	13.257	2021	2023	2028	rVV6	13238	27402	3.57%	0.300%
64	13.289	2028	2029	2032	rVV3	12115	14365	1.87%	0.157%
65	13.321	2032	2035	2036	rVV3	13594	16602	2.16%	0.182%
66	13.348	2036	2040	2043	rVV6	15459	31365	4.08%	0.344%
67	13.380	2043	2046	2048	rVV4	15770	21955	2.86%	0.241%
68	13.407	2048	2051	2054	rVV5	14804	25942	3.38%	0.284%
69	13.450	2054	2059	2061	rVV6	16051	30690	3.99%	0.336%
70	13.476	2061	2064	2070	rVV8	19008	45765	5.96%	0.501%
71	13.514	2070	2071	2077	rVV6	12327	24783	3.23%	0.272%
72	13.557	2077	2079	2080	rVV2	11645	10603	1.38%	0.116%
73	13.578	2080	2083	2085	rVV4	11310	17217	2.24%	0.189%
74	13.605	2085	2088	2092	rVV6	11110	23052	3.00%	0.253%
75	13.637	2092	2094	2097	rVV4	11697	15092	1.96%	0.165%
76	13.664	2097	2099	2100	rVV2	10880	8897	1.16%	0.097%
77	13.674	2100	2101	2106	rVV4	10305	17171	2.23%	0.188%
78	13.733	2106	2112	2113	rVV6	8599	17567	2.29%	0.192%
79	13.744	2113	2114	2120	rVV6	8101	16639	2.17%	0.182%
80	13.781	2120	2121	2127	rVV6	9040	16295	2.12%	0.179%
81	13.819	2127	2128	2133	rVV5	8848	13893	1.81%	0.152%
82	13.867	2136	2137	2140	rVV3	7278	8342	1.09%	0.091%
83	13.910	2140	2145	2147	rVV6	9262	17690	2.30%	0.194%
84	13.926	2147	2148	2150	rVV2	9122	8020	1.04%	0.088%
85	13.969	2150	2156	2159	rVV8	13133	31393	4.09%	0.344%

LSC Area Percent Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.001 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

86	14.006	2159	2163	2174	rVV8	13860	45744	5.95%	0.501%
87	14.113	2174	2183	2187	rVV8	7039	25071	3.26%	0.275%
88	14.166	2190	2193	2195	rVV3	6490	9324	1.21%	0.102%
89	14.252	2199	2209	2210	rVV10	12249	30233	3.93%	0.331%
90	14.327	2210	2223	2225	rVV8	25487	83740	10.90%	0.917%
91	14.380	2225	2233	2243	rVV8	27892	121430	15.80%	1.330%
92	14.466	2243	2249	2252	rVV8	17225	43026	5.60%	0.471%
93	14.493	2252	2254	2257	rVV4	18464	27933	3.64%	0.306%
94	14.525	2257	2260	2265	rVV7	18063	43413	5.65%	0.476%
95	14.562	2265	2267	2270	rVV4	16984	26333	3.43%	0.288%
96	14.584	2270	2271	2273	rVV2	17182	15141	1.97%	0.166%
97	14.605	2273	2275	2278	rVV4	19560	28680	3.73%	0.314%
98	14.632	2279	2280	2289	rVV9	17202	43250	5.63%	0.474%
99	14.685	2289	2290	2296	rVV6	9690	14928	1.94%	0.164%
100	14.765	2302	2305	2310	rVV7	4419	8642	1.12%	0.095%

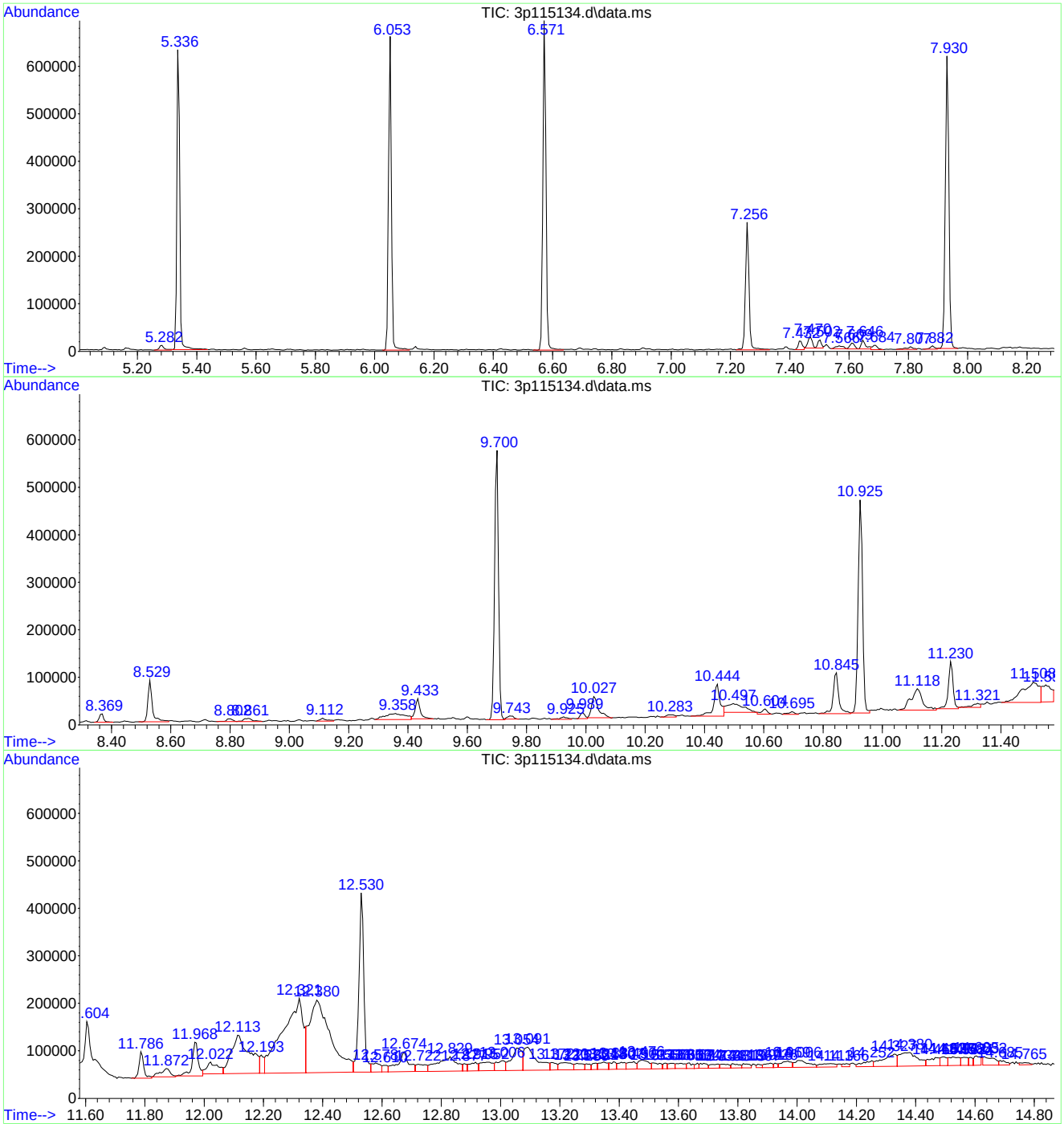
Sum of corrected areas: 9128017

LSC Report - Integrated Chromatogram

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

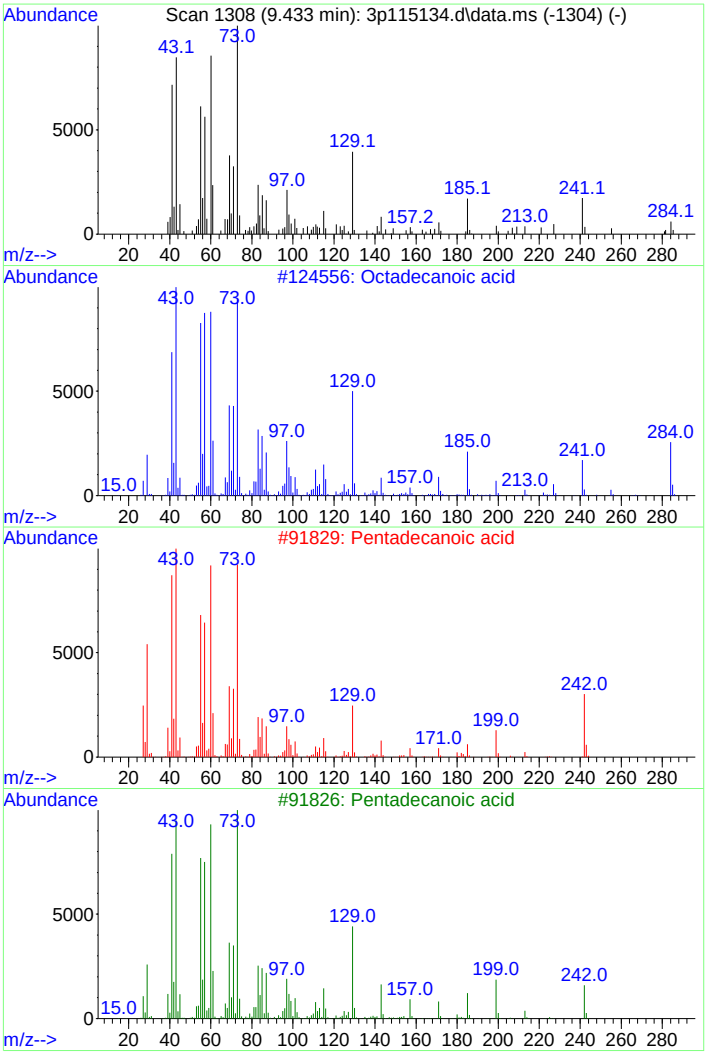
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

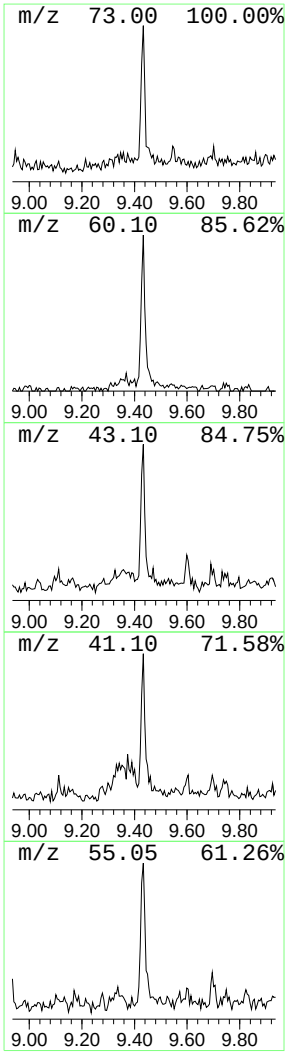
****

Peak Number 2 Octadecanoic acid Concentration Rank 24

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.433	0.86 ppm	48575	Chrysene-d12	10.925

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	93
2	Pentadecanoic acid	242	C15H30O2	001002-84-2	91
3	Pentadecanoic acid	242	C15H30O2	001002-84-2	90
4	n-Hexadecanoic acid	256	C16H32O2	000057-10-3	87
5	Octadecanoic acid	284	C18H36O2	000057-11-4	86





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

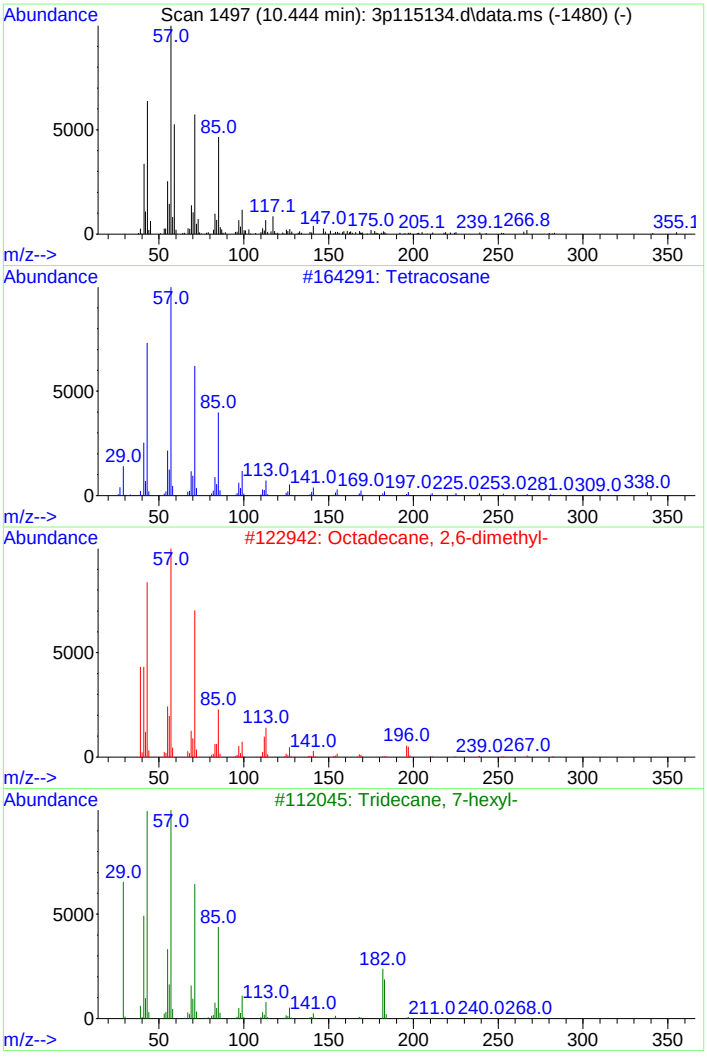
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

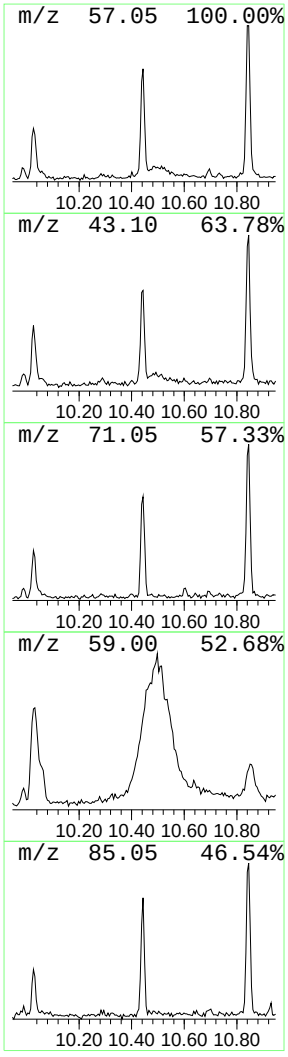
****

Peak Number 4 Alkane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.444	1.89 ppm	106124	Chrysene-d12	10.925

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetracosane	338	C24H50	000646-31-1	62
2	Octadecane, 2,6-dimethyl-	282	C20H42	075163-97-2	60
3	Tridecane, 7-hexyl-	268	C19H40	007225-66-3	58
4	Undecane, 2-methyl-	170	C12H26	007045-71-8	58
5	Nonadecane	268	C19H40	000629-92-5	58





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

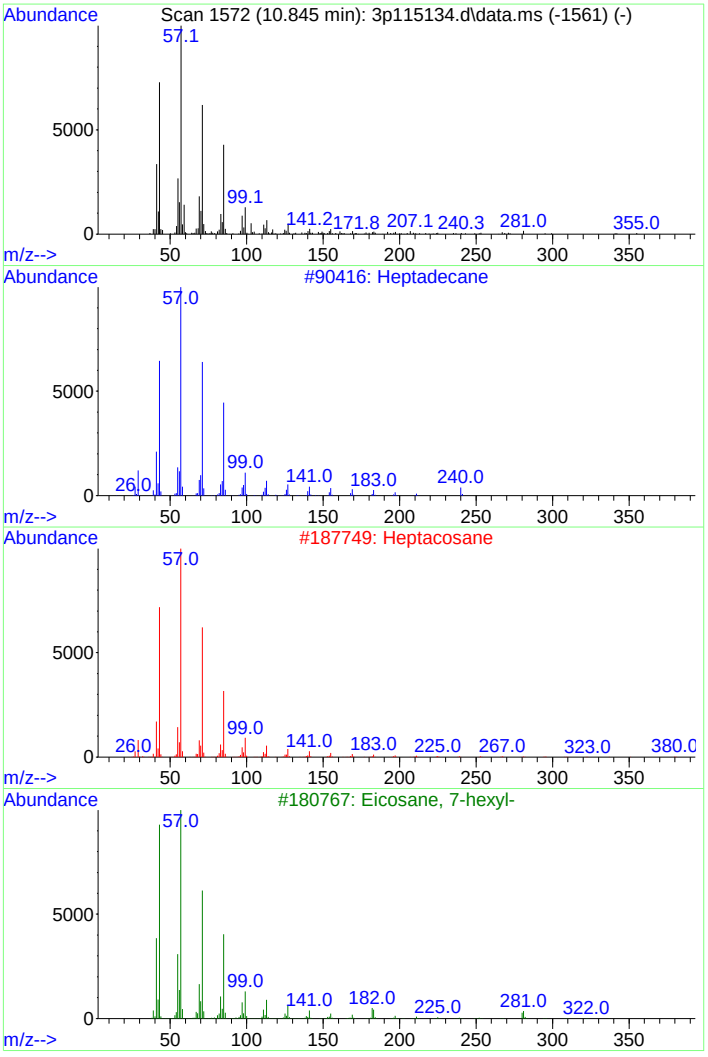
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

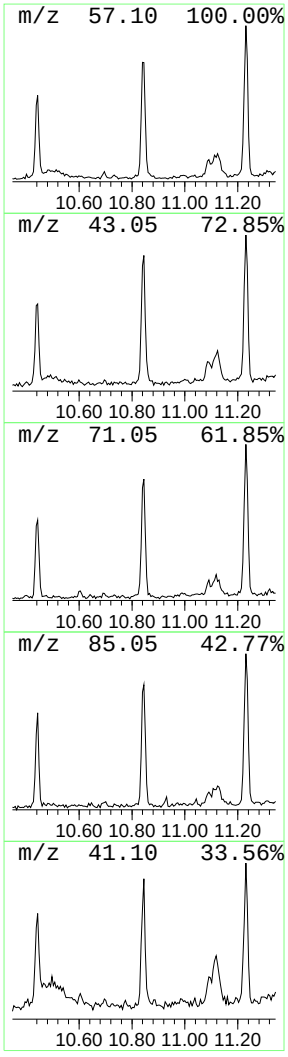
****

Peak Number 6 Alkane Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.845	2.04 ppm	114530	Chrysene-d12	10.925

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	95
2	Heptacosane	380	C27H56	000593-49-7	90
3	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	87
4	Heptacosane	380	C27H56	000593-49-7	87
5	Docosane, 11-butyl-	366	C26H54	013475-76-8	86





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

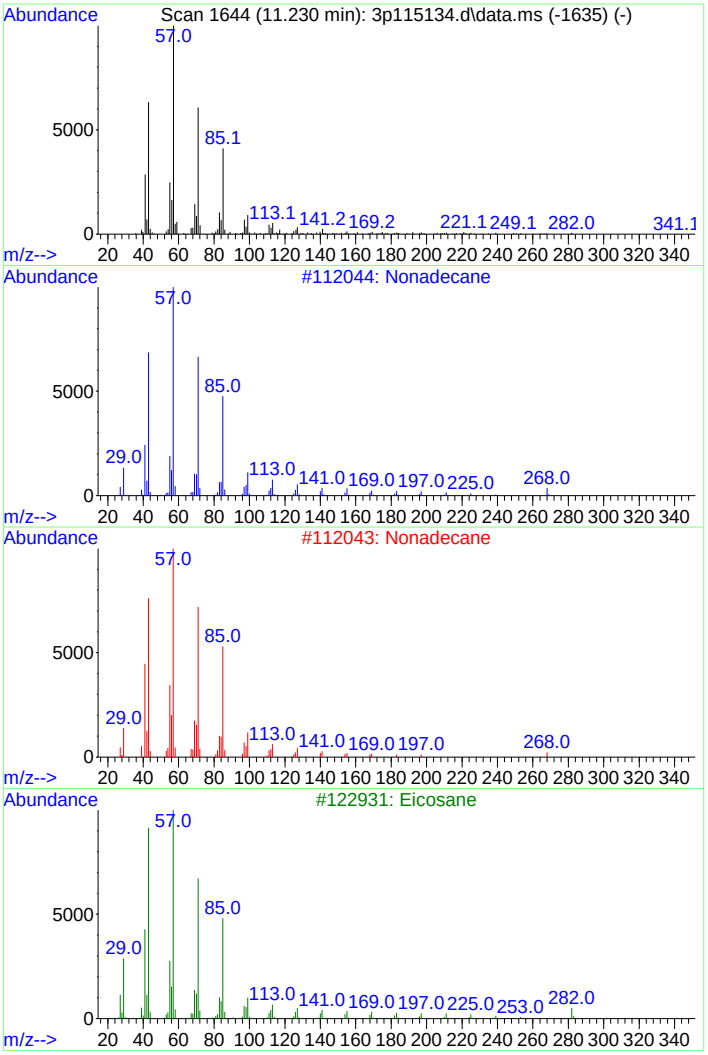
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

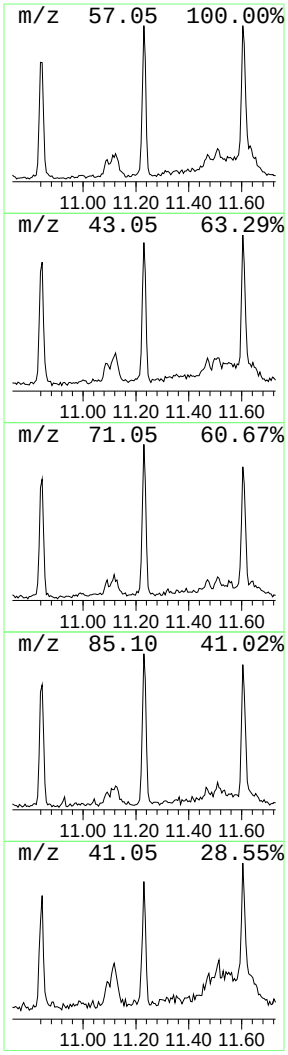
****

Peak Number 8 Alkane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.230	1.94 ppm	108878	Chrysene-d12a	10.925

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	94
2	Nonadecane	268	C19H40	000629-92-5	87
3	Eicosane	282	C20H42	000112-95-8	87
4	Octadecane	254	C18H38	000593-45-3	80
5	Hexadecane	226	C16H34	000544-76-3	80





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

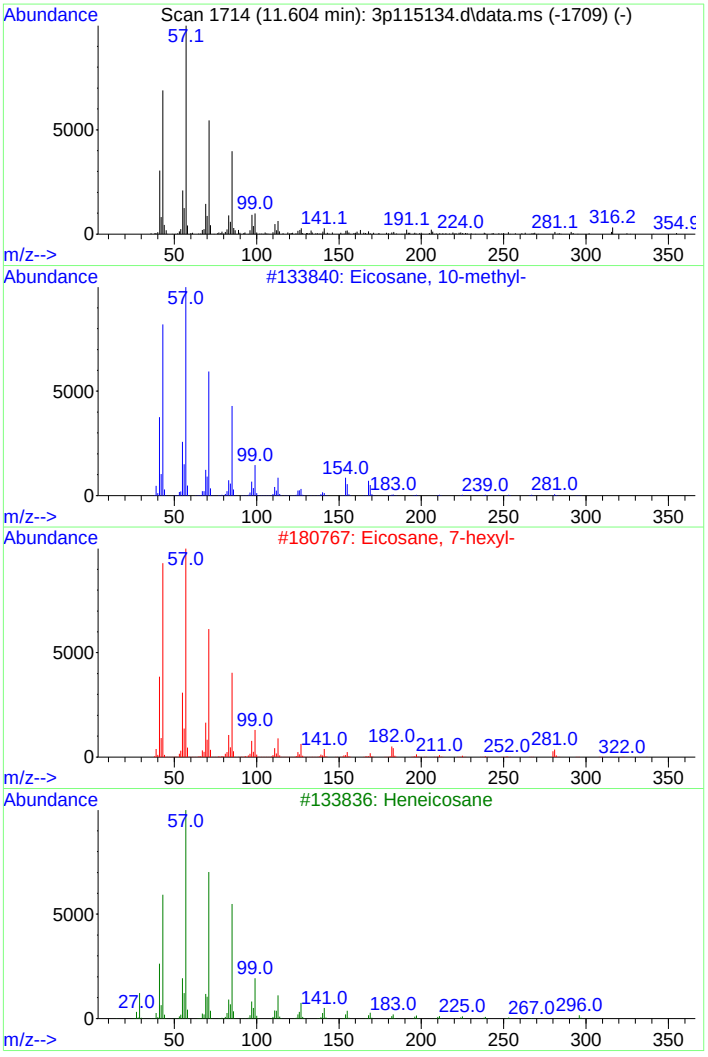
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

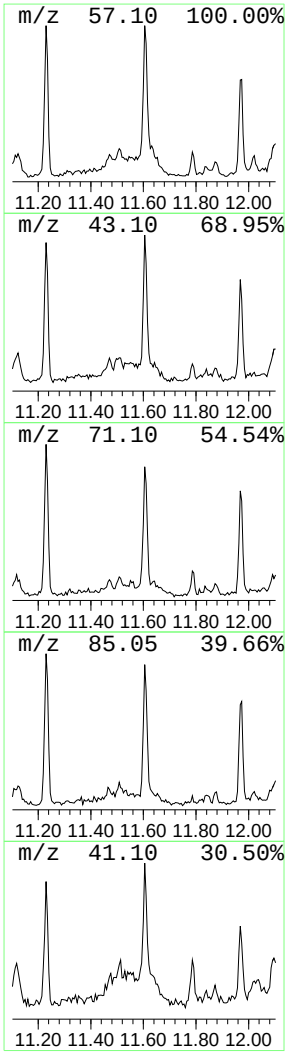
****

Peak Number 11 Alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.604	4.71 ppm	264891	Chrysene-d12a	10.925

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane, 10-methyl-	296	C21H44	054833-23-7	87
2	Eicosane, 7-hexyl-	366	C26H54	055333-99-8	87
3	Heneicosane	296	C21H44	000629-94-7	86
4	Decane, 1-iodo-	268	C10H21I	002050-77-3	74
5	10-Methylnonadecane	282	C20H42	056862-62-5	74





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

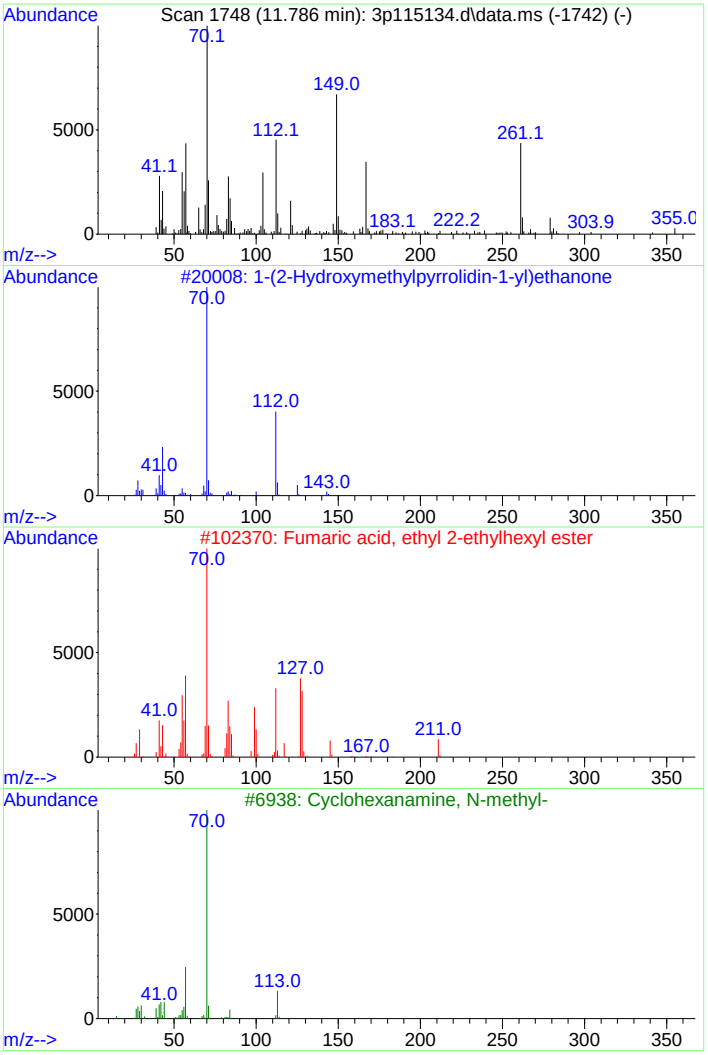
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

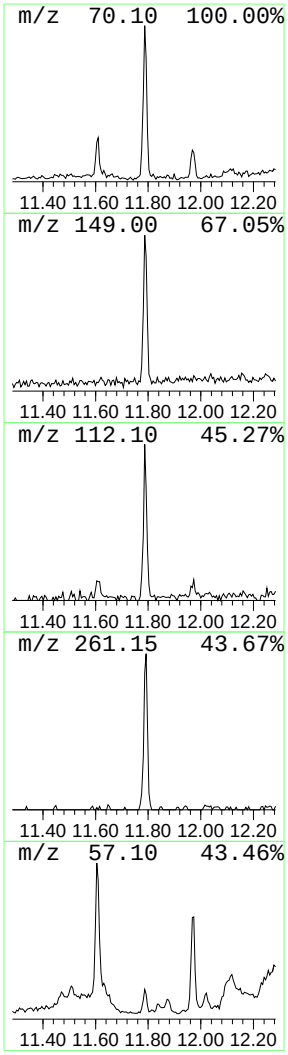
****

Peak Number 12 Unknown Concentration Rank 21

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.786	1.11 ppm	61279	Perylene-d12	12.530

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1-(2-Hydroxymethylpyrrolidin-1-y...	143	C7H13NO2	1000192-83-2	35
2	Fumaric acid, ethyl 2-ethylhexyl...	256	C14H24O4	1000339-13-5	25
3	Cyclohexanamine, N-methyl-	113	C7H15N	000100-60-7	22
4	1,2-Benzenedicarboxylic acid, di...	390	C24H38O4	027554-26-3	22
5	Proline	115	C5H9NO2	000147-85-3	14





Library Search Compound Report

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Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

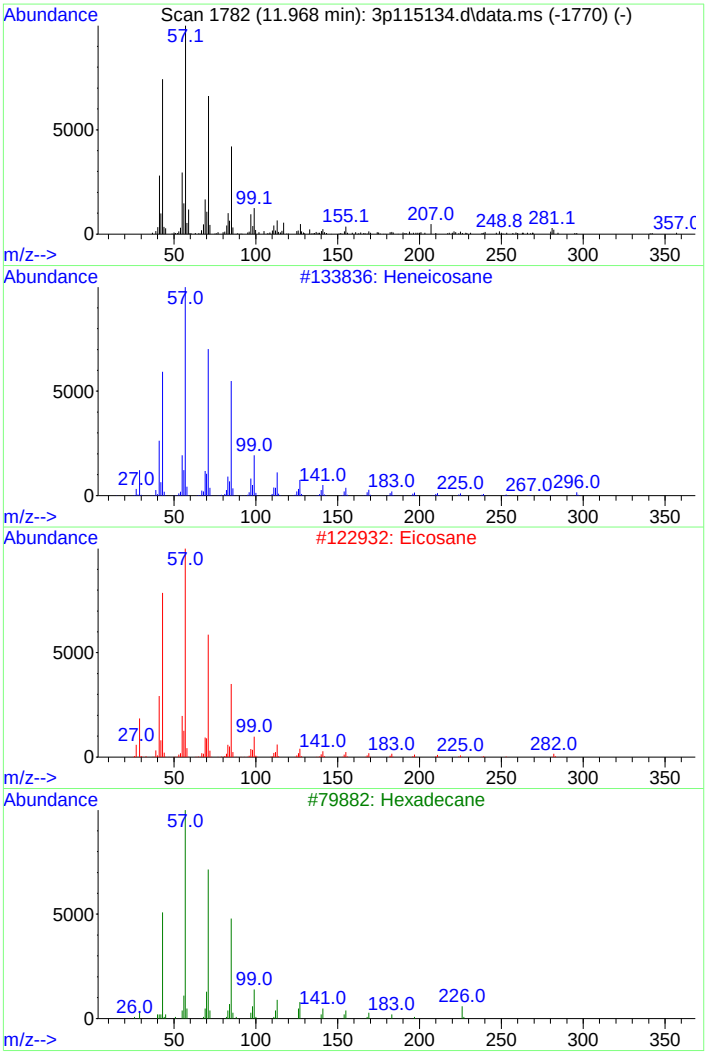
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

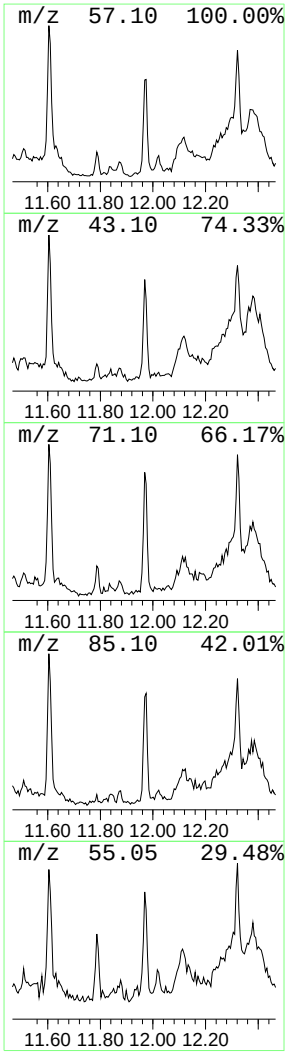
****

Peak Number 13 Alkane Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.968	1.82 ppm	100796	Perylene-d12	12.530

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	94
2	Eicosane	282	C20H42	000112-95-8	93
3	Hexadecane	226	C16H34	000544-76-3	93
4	Heptadecane	240	C17H36	000629-78-7	91
5	Docosane, 11-butyl-	366	C26H54	013475-76-8	87





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

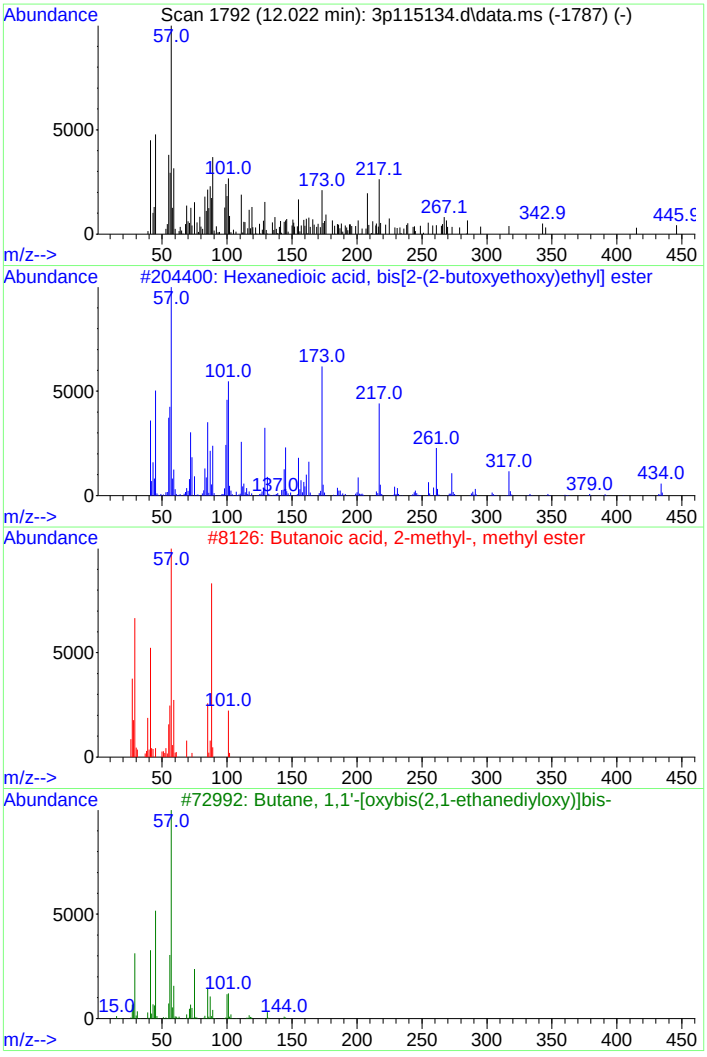
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

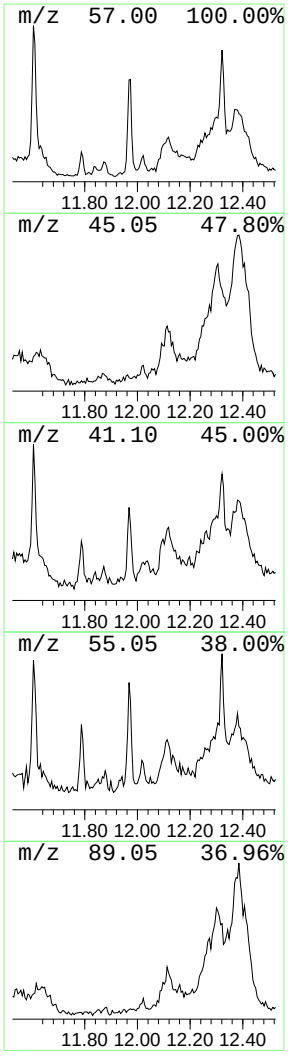
****

Peak Number 14 Unknown Concentration Rank 20

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.022	1.21 ppm	66629	Perylene-d12	12.530

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexanedioic acid, bis[2-(2-butox...	434	C22H42O8	000141-17-3	14
2	Butanoic acid, 2-methyl-, methyl...	116	C6H12O2	000868-57-5	12
3	Butane, 1,1'-[oxybis(2,1-ethaned...	218	C12H26O3	000112-73-2	12
4	Butane, 1,1'-[oxybis(2,1-ethaned...	218	C12H26O3	000112-73-2	12
5	5,8,12,15-Tetraoxanonadecane, 10...	304	C17H36O4	1000159-84-9	10





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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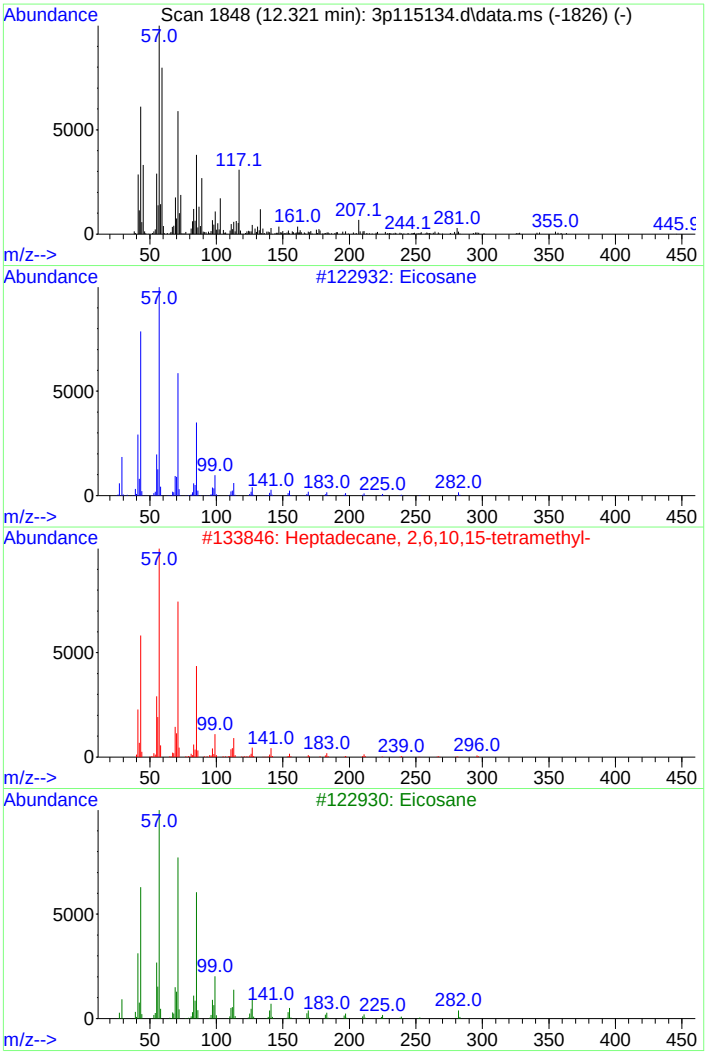
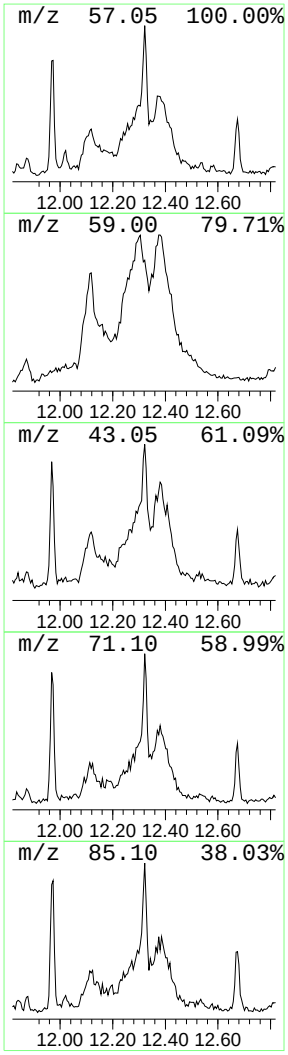
Peak Number 16 Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.321	13.90 ppm	768413	Perylene-d12	12.530

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	48
2	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	47
3	Eicosane	282	C20H42	000112-95-8	43
4	Heneicosane	296	C21H44	000629-94-7	43
5	Octadecane	254	C18H38	000593-45-3	35





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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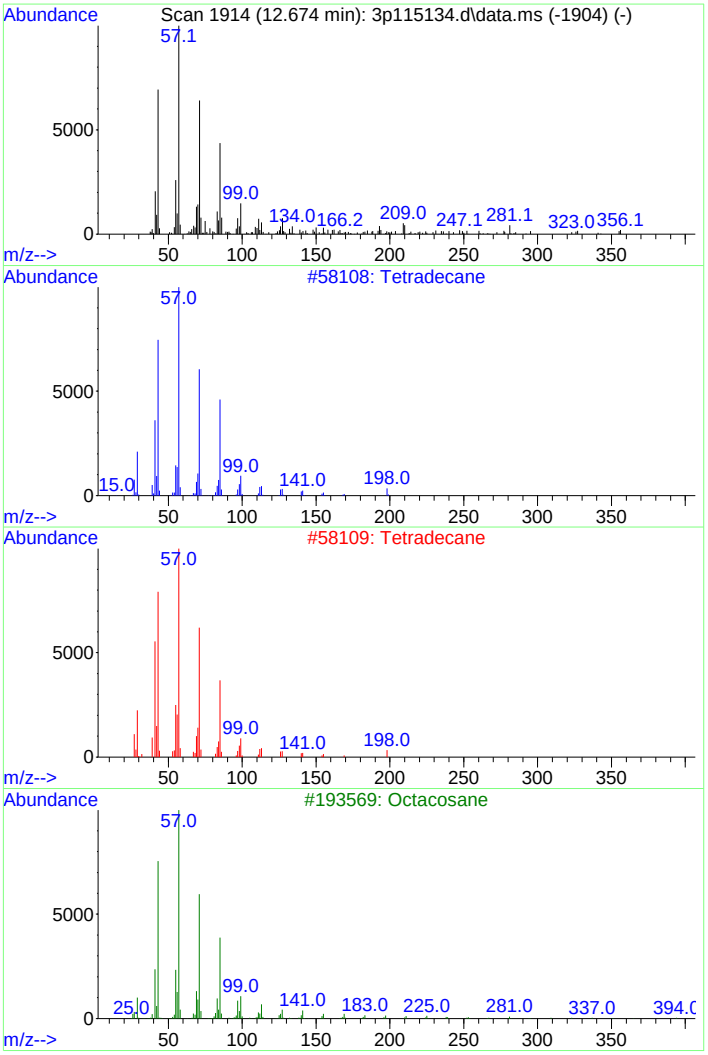
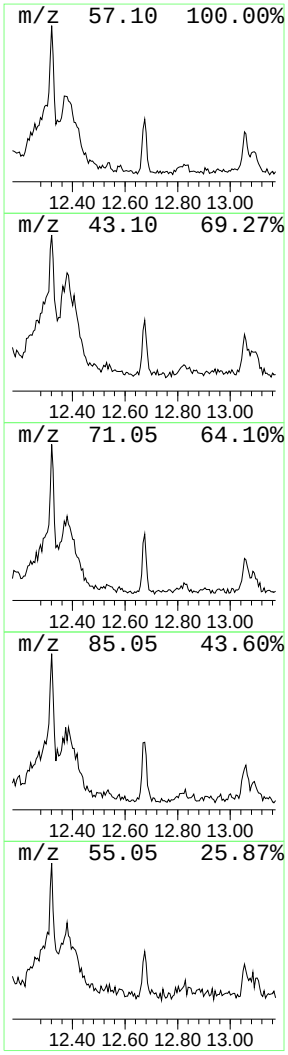
Peak Number 18 Alkane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.674	1.91 ppm	105651	Perylene-d12	12.530

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane	198	C14H30	000629-59-4	80
2	Tetradecane	198	C14H30	000629-59-4	80
3	Octacosane	394	C28H58	000630-02-4	80
4	Pentacosane	352	C25H52	000629-99-2	80
5	Heptacosane	380	C27H56	000593-49-7	80





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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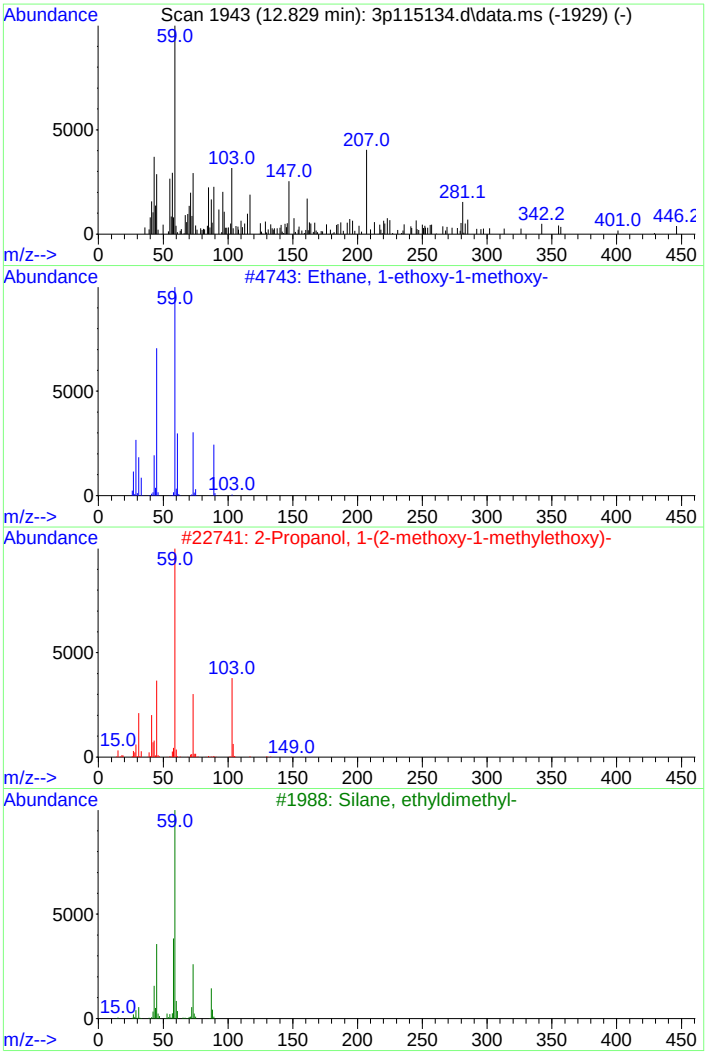
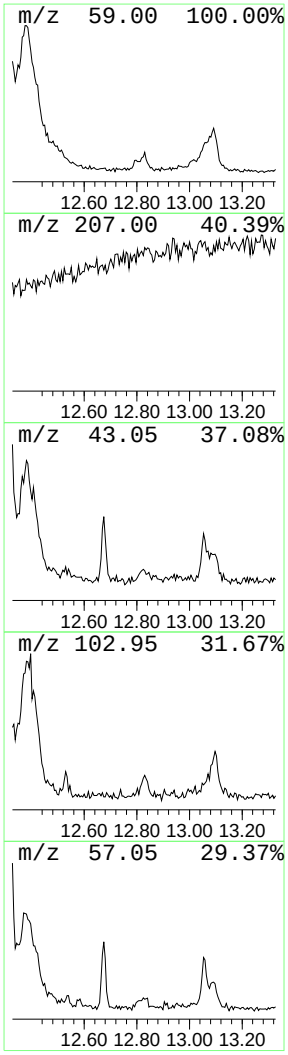
Peak Number 19 Unknown Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.829	2.45 ppm	135256	Perylene-d12	12.530

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Ethane, 1-ethoxy-1-methoxy-	104	C5H12O2	010471-14-4	35
2	2-Propanol, 1-(2-methoxy-1-methy...	148	C7H16O3	020324-32-7	35
3	Silane, ethyldimethyl-	88	C4H12Si	000758-21-4	30
4	Hexylene Glycol	118	C6H14O2	000107-41-5	27
5	2-Propanol, 1-[2-(2-methoxy-1-me...	206	C10H22O4	020324-33-8	27





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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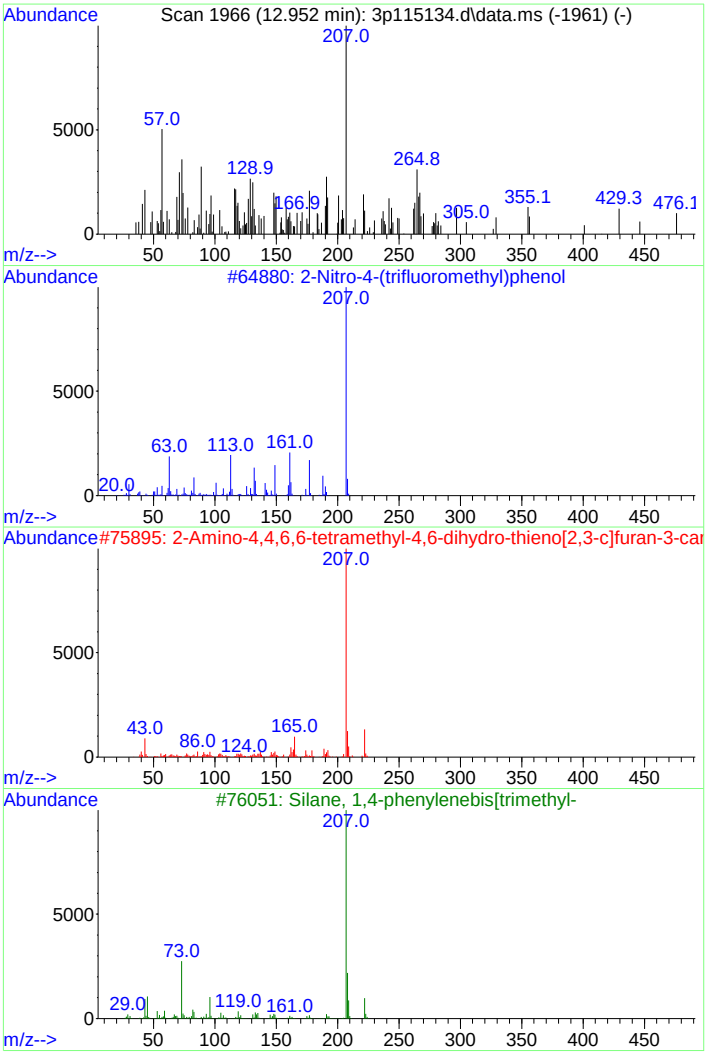
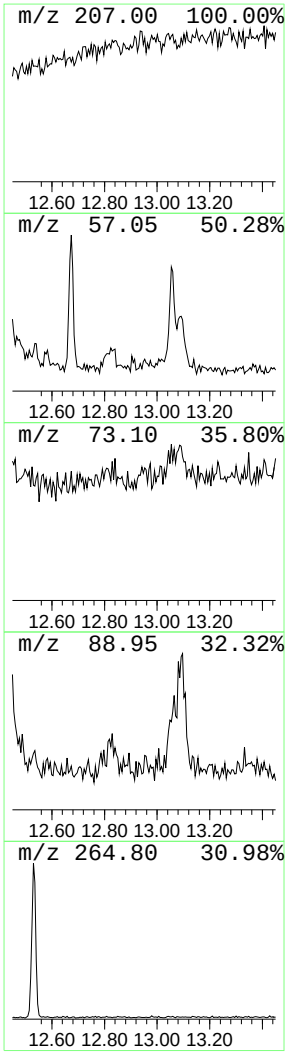
Peak Number 20 Unknown Concentration Rank 22

R.T.	EstConc	Area	Relative to ISTD	R.T.
12.952	0.98 ppm	54230	Perylene-d12	12.530

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Nitro-4-(trifluoromethyl)phenol	207	C7H4F3NO3	000400-99-7	38
2	2-Amino-4,4,6,6-tetramethyl-4,6-...	222	C11H14N2OS	1000275-36-2	35
3	Silane, 1,4-phenylenebis[trimethyl-	222	C12H22Si2	013183-70-5	35
4	Propanamide, N-(4-methoxyphenyl)...	207	C12H17NO2	056619-94-4	35
5	1H-Indole, 5-methyl-2-phenyl-	207	C15H13N	013228-36-9	35





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

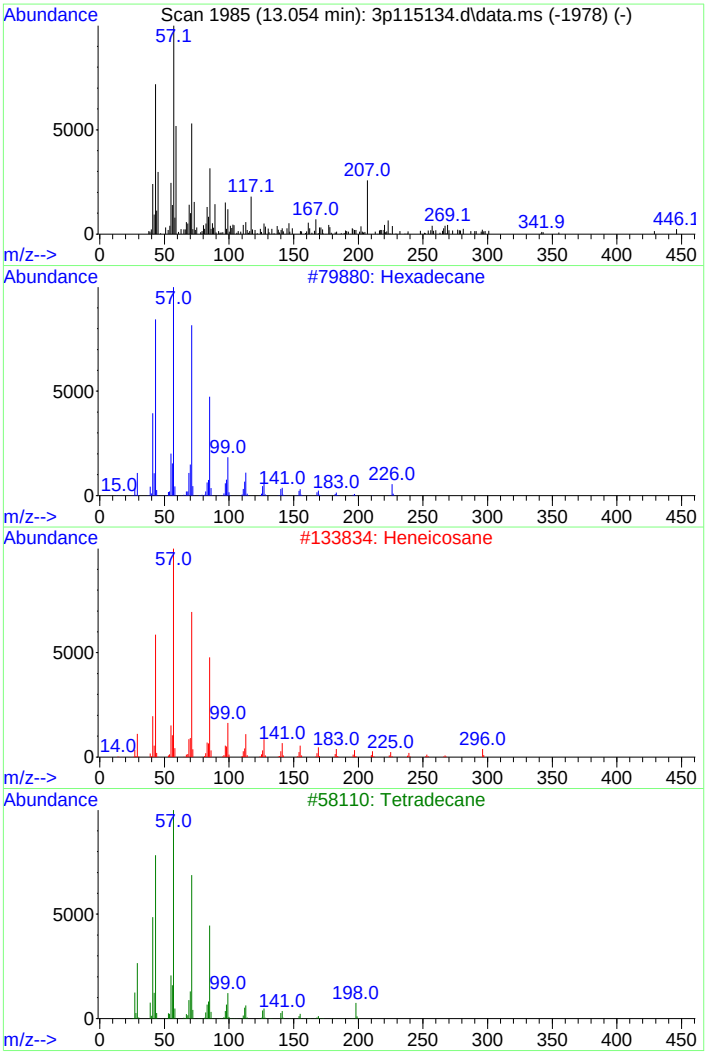
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

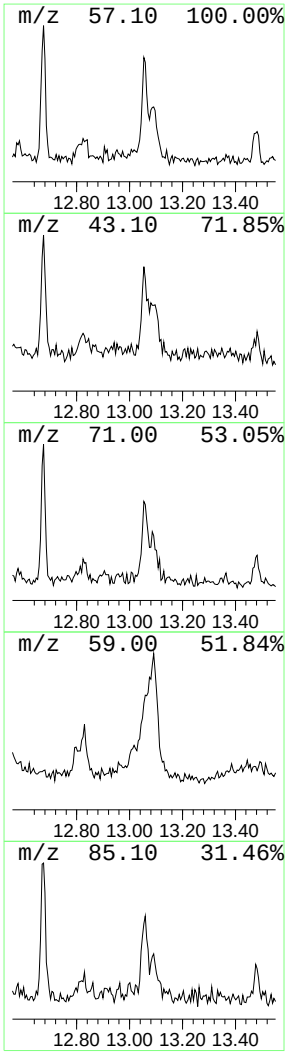
****

Peak Number 21 Alkane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.054	2.13 ppm	117993	Perylene-d12	12.530

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Hexadecane	226	C16H34	000544-76-3	60
2	Heneicosane	296	C21H44	000629-94-7	46
3	Tetradecane	198	C14H30	000629-59-4	46
4	Octadecane	254	C18H38	000593-45-3	46
5	Sulfurous acid, 2-propyl tridecy...	306	C16H34O3S	1000309-12-4	43





Library Search Compound Report

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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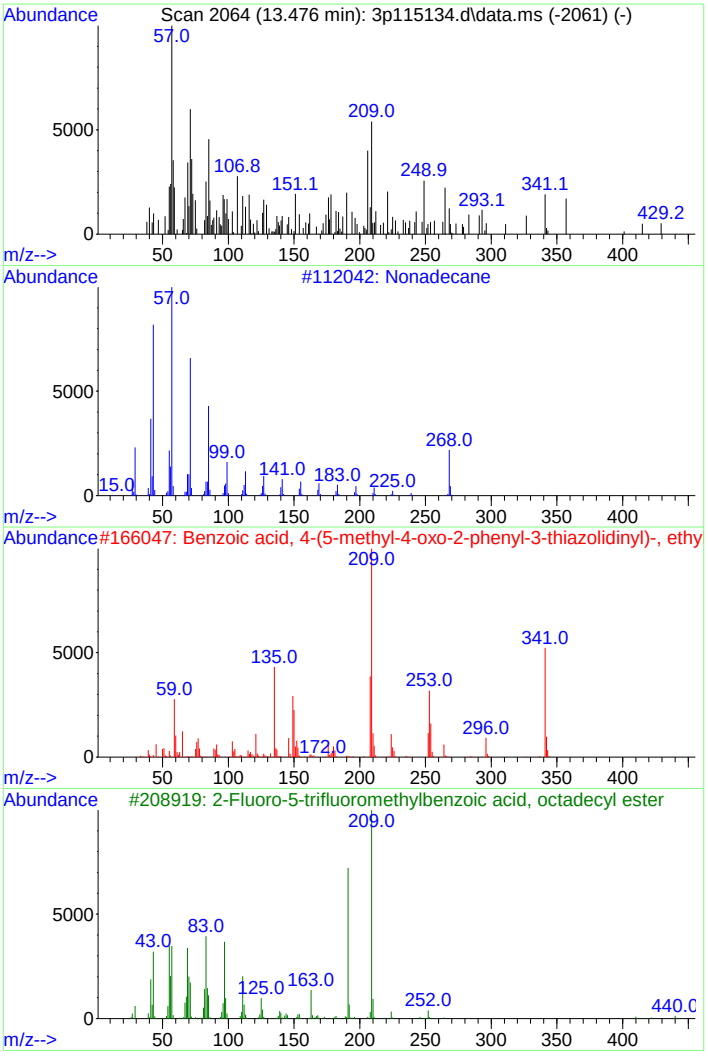
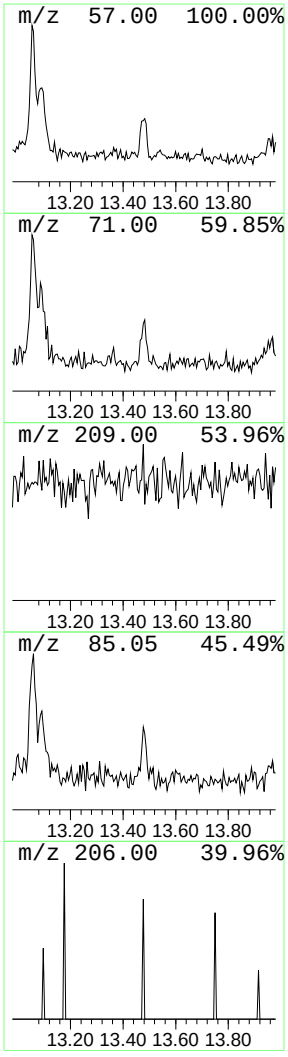
Peak Number 23 Unknown Concentration Rank 25

R.T.	EstConc	Area	Relative to ISTD	R.T.
13.477	0.83 ppm	45765	Perylene-d12	12.530

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	25
2	Benzoic acid, 4-(5-methyl-4-oxo-...	341	C19H19NO3S	296243-24-8	11
3	2-Fluoro-5-trifluoromethylbenzoi...	460	C26H40F4O2	1000338-97-2	10
4	Cholest-22-ene-21-ol, 3,5-dehydr...	498	C33H54O3	1000124-60-2	10
5	2-Fluoro-3-trifluoromethylbenzoi...	488	C28H44F4O2	1000338-73-5	10





Tentatively Identified Compound (LSC) summary

Data Path : E:\MSSEMI\Completed\11 Nov 2025\112725\katrinam\e3p5428\
Data File : 3p115134.d
Acq On : 27 Nov 2025 12:13 am
Operator : thomasl
Sample : je23960-2
Misc : op69240,e3p5428,250,,,1,1
ALS Vial : 25 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M3P5401LVI.M
Quant Title : Semi Volatile GC/MS,ZB-5MSplus 30m x 0.25mm x 0.25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Octadecanoic acid	9.433	0.9	ppm	48575	9	10.925	449862	8.0
Alkane	10.444	1.9	ppm	106124	9	10.925	449862	8.0
Alkane	10.845	2.0	ppm	114530	9	10.925	449862	8.0
Alkane	11.230	1.9	ppm	108878	10	10.925	449862	8.0
Alkane	11.604	4.7	ppm	264891	10	10.925	449862	8.0
Unknown	11.786	1.1	ppm	61279	11	12.530	442292	8.0
Alkane	11.968	1.8	ppm	100796	11	12.530	442292	8.0
Unknown	12.022	1.2	ppm	66629	11	12.530	442292	8.0
Alkane	12.321	13.9	ppm	768413	11	12.530	442292	8.0
Alkane	12.674	1.9	ppm	105651	11	12.530	442292	8.0
Unknown	12.829	2.5	ppm	135256	11	12.530	442292	8.0
Unknown	12.952	1.0	ppm	54230	11	12.530	442292	8.0
Alkane	13.054	2.1	ppm	117993	11	12.530	442292	8.0
Unknown	13.477	0.8	ppm	45765	11	12.530	442292	8.0

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106534.d
Acq On : 25 Nov 2025 6:49 pm
Operator : thomasl
Sample : je23960-3 Inst : GCMS5P
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 26 03:37:39 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Nov 25 13:26:57 2025
Response via : Initial Calibration

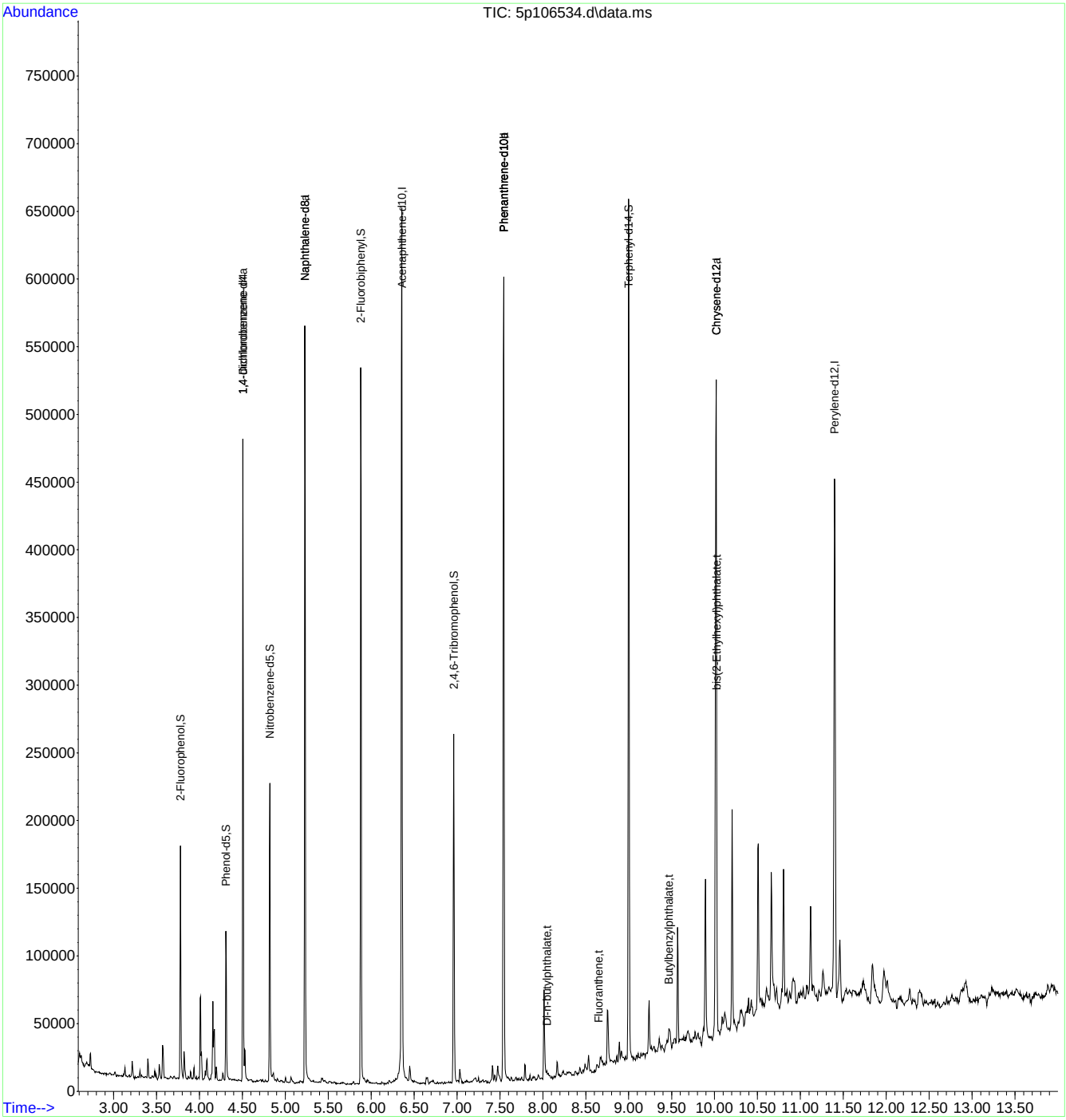
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-dichlorobenzene-d4	4.505	152	53613	8.00	ppm	0.00
24) Naphthalene-d8	5.227	136	203493	8.00	ppm	0.00
46) Acenaphthene-d10	6.359	164	113971	8.00	ppm	0.00
69) Phenanthrene-d10	7.545	188	205574	8.00	ppm	0.00
84) Chrysene-d12	10.019	240	165855	8.00	ppm	0.00
93) Perylene-d12	11.397	264	163675	8.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.505	152	53613	8.00	ppm	-0.03
105) Phenanthrene-d10a	7.545	188	205574	8.00	ppm	-0.04
107) Naphthalene-d8a	5.227	136	203493	8.00	ppm	-0.03
109) Chrysene-d12a	10.019	240	165855	8.00	ppm	-0.04
111) Phenanthrene-d10b	7.545	188	205574	8.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.779	112	34786	4.37	ppm	0.00
Spiked Amount 10.000			Recovery = 43.70%			
8) Phenol-d5	4.308	99	29932	3.12	ppm	0.00
Spiked Amount 10.000			Recovery = 31.20%			
25) Nitrobenzene-d5	4.821	82	53785	6.80	ppm	0.00
Spiked Amount 10.000			Recovery = 68.00%			
51) 2-Fluorobiphenyl	5.878	172	139713	7.47	ppm	0.00
Spiked Amount 10.000			Recovery = 74.70%			
74) 2,4,6-Tribromophenol	6.963	330	28817	8.37	ppm	0.00
Spiked Amount 10.000			Recovery = 83.70%			
87) Terphenyl-d14	8.998	244	188906	8.36	ppm	0.00
Spiked Amount 10.000			Recovery = 83.60%			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 10.000			Recovery = 0.00%			
113) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 10.000			Recovery = 0.00%			
Target Compounds						Qvalue
81) Di-n-butylphthalate	8.047	149	1346	0.0437	ppm	93
82) Fluoranthene	8.651	202	275	0.0087	ppm	86
88) Butylbenzylphthalate	9.468	149	935	0.0793	ppm	76
92) bis(2-Ethylhexyl)phtha...	10.024	149	3427	0.2159	ppm	94

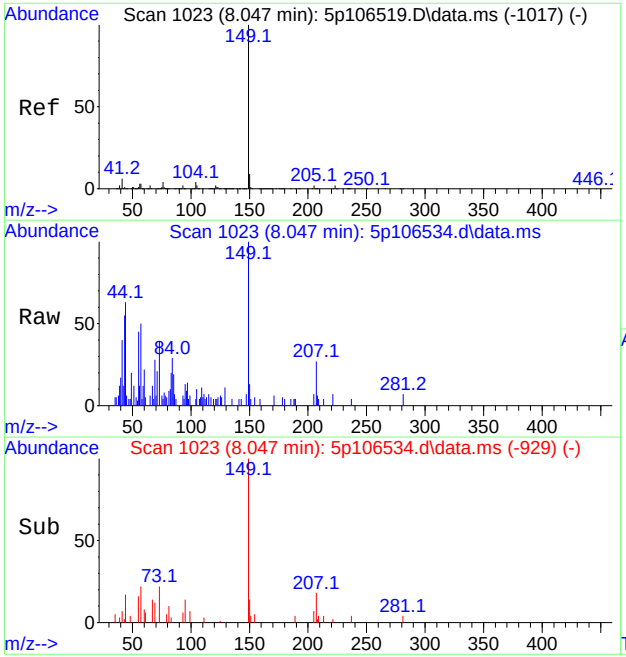
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106534.d
Acq On : 25 Nov 2025 6:49 pm
Operator : thomasl
Sample : je23960-3 Inst : GCMS5P
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Time: Nov 26 03:37:39 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Nov 25 13:26:57 2025
Response via : Initial Calibration

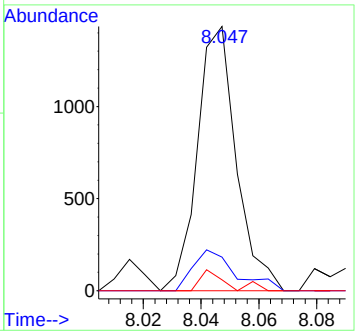


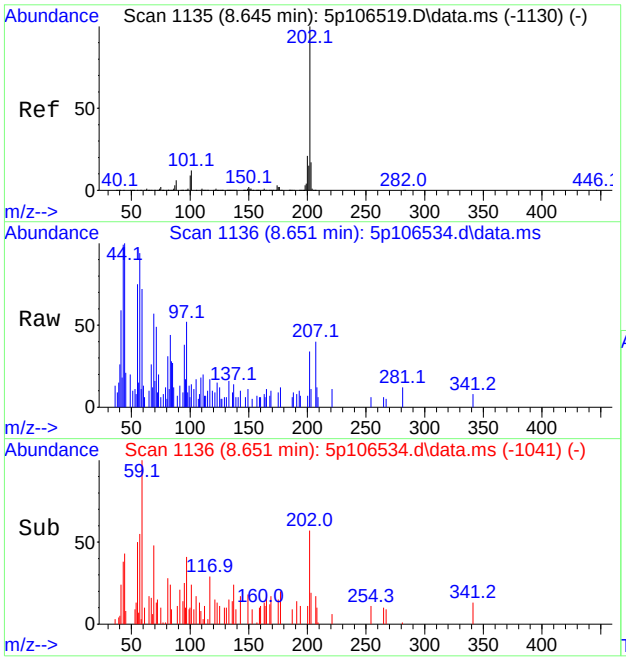


#81
Di-n-butylphthalate
Concen: 0.0437 ppm
RT: 8.047 min Scan# 1023
Delta R.T. 0.000 min
Lab File: 5p106534.d
Acq: 25 Nov 2025 6:49 pm

Tgt Ion:149 Resp: 1346

Ion	Ratio	Lower	Upper
149	100		
150	12.8	0.0	39.4
104	4.1	0.0	33.8

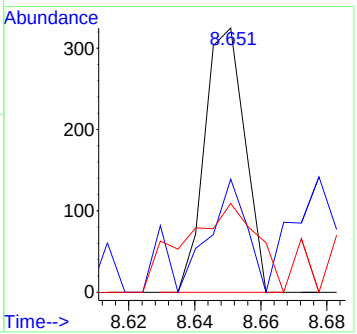


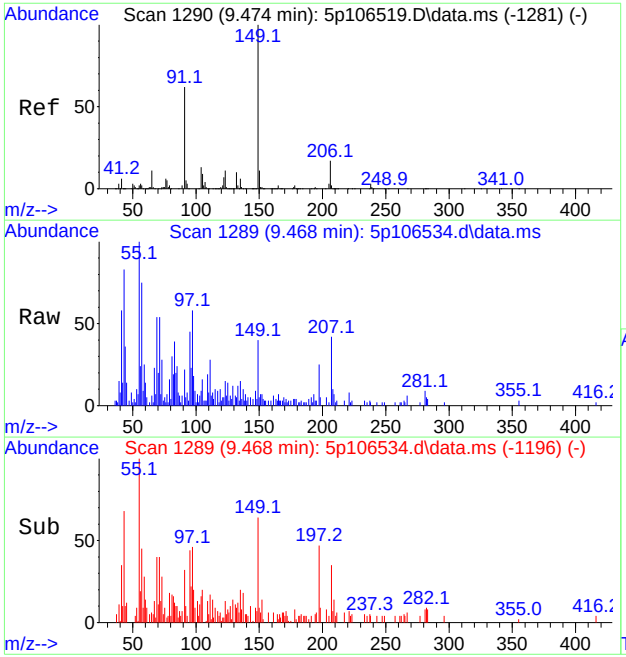


#82
Fluoranthene
Concen: 0.0087 ppm
RT: 8.651 min Scan# 1136
Delta R.T. 0.006 min
Lab File: 5p106534.d
Acq: 25 Nov 2025 6:49 pm

Tgt Ion:202 Resp: 275

Ion	Ratio	Lower	Upper
202	100		
101	16.9	0.0	41.8
203	23.8	0.0	47.4

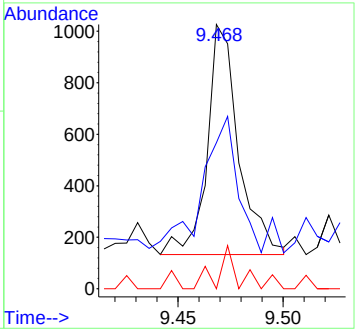


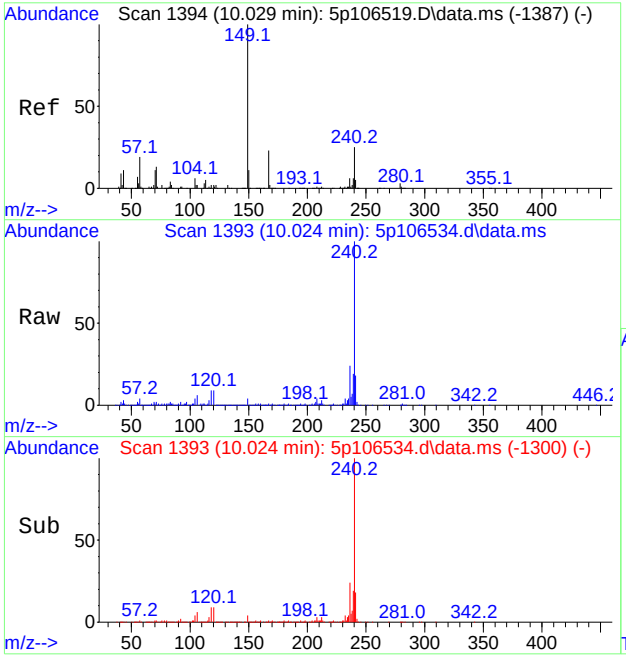


#88
Butylbenzylphthalate
Concen: 0.0793 ppm
RT: 9.468 min Scan# 1289
Delta R.T. -0.006 min
Lab File: 5p106534.d
Acq: 25 Nov 2025 6:49 pm

Tgt Ion:149 Resp: 935

Ion	Ratio	Lower	Upper
149	100		
91	46.1	31.7	91.7
206	0.0	0.0	46.8

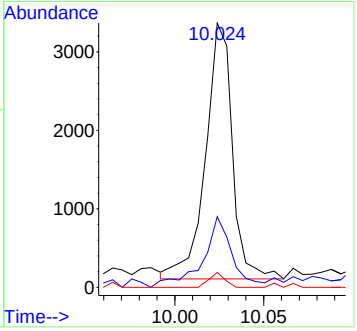




#92
bis(2-Ethylhexyl)phthalate
Concen: 0.2159 ppm
RT: 10.024 min Scan# 1393
Delta R.T. -0.005 min
Lab File: 5p106534.d
Acq: 25 Nov 2025 6:49 pm

Tgt Ion:149 Resp: 3427

Ion	Ratio	Lower	Upper
149	100		
167	25.7	0.0	53.0
279	6.0	0.0	33.1



LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106534.d
Acq On : 25 Nov 2025 6:49 pm
Operator : thomasl
Sample : je23960-3
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

Signal : TIC: 5p106534.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.620	6	7	15	rVB3	7864	8698	1.67%	0.111%
2	2.732	25	28	38	rVB	14378	17992	3.46%	0.230%
3	3.218	115	119	124	rVB3	13167	11796	2.27%	0.151%
4	3.399	151	153	158	rVB2	14271	10039	1.93%	0.128%
5	3.480	165	168	174	rVB3	6694	8279	1.59%	0.106%
6	3.533	174	178	182	rBV	11623	10677	2.06%	0.136%
7	3.570	182	185	198	rVB2	24966	26385	5.08%	0.337%
8	3.779	220	224	230	rBV	172308	114541	22.05%	1.464%
9	3.822	230	232	239	rVB	20674	18004	3.47%	0.230%
10	4.014	261	268	273	rVB2	61551	58892	11.34%	0.753%
11	4.089	273	282	287	rVB4	15315	20558	3.96%	0.263%
12	4.158	287	295	300	rBV2	58061	64651	12.44%	0.826%
13	4.195	300	302	308	rVB	10259	7634	1.47%	0.098%
14	4.308	320	323	331	rBV	110132	81135	15.62%	1.037%
15	4.505	356	360	372	rBB	473973	305832	58.87%	3.909%
16	4.821	412	419	424	rBV	220690	155922	30.01%	1.993%
17	4.863	424	427	433	rVB4	6034	7538	1.45%	0.096%
18	5.066	460	465	473	rVB10	4751	7537	1.45%	0.096%
19	5.227	491	495	510	rBV	559327	395032	76.04%	5.049%
20	5.878	612	617	629	rBV	529451	390498	75.16%	4.991%
21	6.359	695	707	720	rVB	644776	519528	100.00%	6.640%
22	6.450	720	724	732	rVB4	11862	11999	2.31%	0.153%
23	6.658	756	763	766	rVB4	4665	7539	1.45%	0.096%
24	6.963	815	820	826	rBV	258006	203084	39.09%	2.596%
25	7.032	830	833	840	rVB	10436	11522	2.22%	0.147%
26	7.412	898	904	907	rBV	12998	13416	2.58%	0.171%
27	7.476	912	916	923	rVB5	11419	15077	2.90%	0.193%
28	7.545	923	929	937	rBV	594413	509929	98.15%	6.517%
29	7.791	972	975	982	rBV	11953	11304	2.18%	0.144%
30	8.015	1013	1017	1033	rBV2	65785	64861	12.48%	0.829%
31	8.165	1040	1045	1049	rBV	11739	12676	2.44%	0.162%
32	8.533	1110	1114	1121	rVB	12874	15084	2.90%	0.193%
33	8.630	1128	1132	1136	rBV6	5656	9052	1.74%	0.116%
34	8.678	1136	1141	1146	rBV7	7993	15045	2.90%	0.192%
35	8.752	1150	1155	1163	rBV	40887	48793	9.39%	0.624%
36	8.891	1178	1181	1183	rBV	14868	12486	2.40%	0.160%
37	8.913	1183	1185	1193	rVB2	6578	9044	1.74%	0.116%
38	8.998	1197	1201	1211	rVB	636033	511951	98.54%	6.543%
39	9.239	1237	1246	1250	rBV	42229	49851	9.60%	0.637%
40	9.356	1263	1268	1272	rBV4	9778	12441	2.39%	0.159%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106534.d
Acq On : 25 Nov 2025 6:49 pm
Operator : thomasl
Sample : je23960-3
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

41	9.468	1279	1289	1295	rBV8	16994	44823	8.63%	0.573%
42	9.538	1295	1302	1304	rBV7	7333	14803	2.85%	0.189%
43	9.570	1304	1308	1312	rBV	85517	68662	13.22%	0.878%
44	9.693	1326	1331	1336	rVB6	8399	14622	2.81%	0.187%
45	9.773	1339	1346	1349	rBV5	7693	11462	2.21%	0.146%
46	9.810	1349	1353	1360	rVB7	9088	17733	3.41%	0.227%
47	9.896	1360	1369	1377	rBV	123098	144215	27.76%	1.843%
48	10.019	1384	1392	1400	rBV	488158	482956	92.96%	6.173%
49	10.088	1400	1405	1407	rVV4	13601	16878	3.25%	0.216%
50	10.120	1408	1411	1418	rVV7	16390	30173	5.81%	0.386%
51	10.206	1422	1427	1437	rVV	165753	148137	28.51%	1.893%
52	10.307	1437	1446	1453	rVV8	16771	52446	10.09%	0.670%
53	10.398	1453	1463	1465	rVV3	25041	58816	11.32%	0.752%
54	10.430	1465	1469	1474	rVV3	23181	46355	8.92%	0.592%
55	10.510	1474	1484	1488	rVV	137773	183684	35.36%	2.348%
56	10.542	1488	1490	1492	rVV3	23169	27313	5.26%	0.349%
57	10.606	1497	1502	1508	rVV6	29978	83653	16.10%	1.069%
58	10.660	1508	1512	1521	rVV3	114925	191610	36.88%	2.449%
59	10.724	1521	1524	1530	rVV5	28730	59923	11.53%	0.766%
60	10.804	1530	1539	1543	rVV2	116124	170711	32.86%	2.182%
61	10.847	1545	1547	1549	rVV	26553	28679	5.52%	0.367%
62	10.873	1549	1552	1555	rVV3	24586	40634	7.82%	0.519%
63	10.916	1555	1560	1568	rVV6	34016	109759	21.13%	1.403%
64	10.980	1568	1572	1573	rVV4	22930	32496	6.25%	0.415%
65	11.002	1574	1576	1578	rVV2	23667	27942	5.38%	0.357%
66	11.034	1580	1582	1586	rVV5	25992	41199	7.93%	0.527%
67	11.071	1586	1589	1593	rVV5	27732	52435	10.09%	0.670%
68	11.119	1593	1598	1602	rVV	85599	121860	23.46%	1.557%
69	11.146	1602	1603	1613	rVV9	26607	73851	14.22%	0.944%
70	11.215	1613	1616	1620	rVV6	22630	44327	8.53%	0.567%
71	11.263	1620	1625	1631	rVV	36445	90730	17.46%	1.160%
72	11.333	1635	1638	1642	rVV5	24055	49481	9.52%	0.632%
73	11.397	1642	1650	1655	rVV	398641	509034	97.98%	6.506%
74	11.461	1655	1662	1667	rVV2	57316	110613	21.29%	1.414%
75	11.536	1667	1676	1679	rVV2	20664	64516	12.42%	0.825%
76	11.573	1680	1683	1688	rVV6	19457	44993	8.66%	0.575%
77	11.611	1688	1690	1699	rVV10	18692	61265	11.79%	0.783%
78	11.701	1703	1707	1708	rVV4	18763	27080	5.21%	0.346%
79	11.733	1708	1713	1722	rVV7	24641	82744	15.93%	1.058%
80	11.840	1727	1733	1750	rVV4	35150	122511	23.58%	1.566%
81	11.974	1750	1758	1763	rVV3	29752	77091	14.84%	0.985%
82	12.011	1763	1765	1776	rVV10	21722	52758	10.15%	0.674%
83	12.081	1777	1778	1782	rVV4	8014	10383	2.00%	0.133%
84	12.139	1786	1789	1791	rVV4	7986	9776	1.88%	0.125%
85	12.161	1792	1793	1802	rVV9	8668	17751	3.42%	0.227%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106534.d
Acq On : 25 Nov 2025 6:49 pm
Operator : thomasl
Sample : je23960-3
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

86	12.273	1802	1814	1819	rVV4	13401	34668	6.67%	0.443%
87	12.390	1829	1836	1844	rBV4	13058	38813	7.47%	0.496%
88	12.668	1881	1888	1891	rBV7	4417	8335	1.60%	0.107%
89	12.764	1900	1906	1913	rBV7	6941	15339	2.95%	0.196%
90	12.930	1920	1937	1944	rBV7	16257	67268	12.95%	0.860%
91	13.197	1982	1987	1989	rBV6	9701	15068	2.90%	0.193%
92	13.229	1989	1993	1995	rVV5	6887	8382	1.61%	0.107%
93	13.400	2020	2025	2029	rVB8	5690	8563	1.65%	0.109%
94	13.464	2029	2037	2040	rBV10	4909	9735	1.87%	0.124%
95	13.512	2042	2046	2054	rVV10	4635	9912	1.91%	0.127%
96	13.635	2061	2069	2072	rBV10	6101	10626	2.05%	0.136%
97	13.667	2073	2075	2079	rVB5	7579	7669	1.48%	0.098%
98	13.742	2083	2089	2093	rBV9	4458	8963	1.73%	0.115%
99	13.881	2110	2115	2119	rBV8	8379	12811	2.47%	0.164%
100	13.924	2119	2123	2124	rVV4	7796	8821	1.70%	0.113%

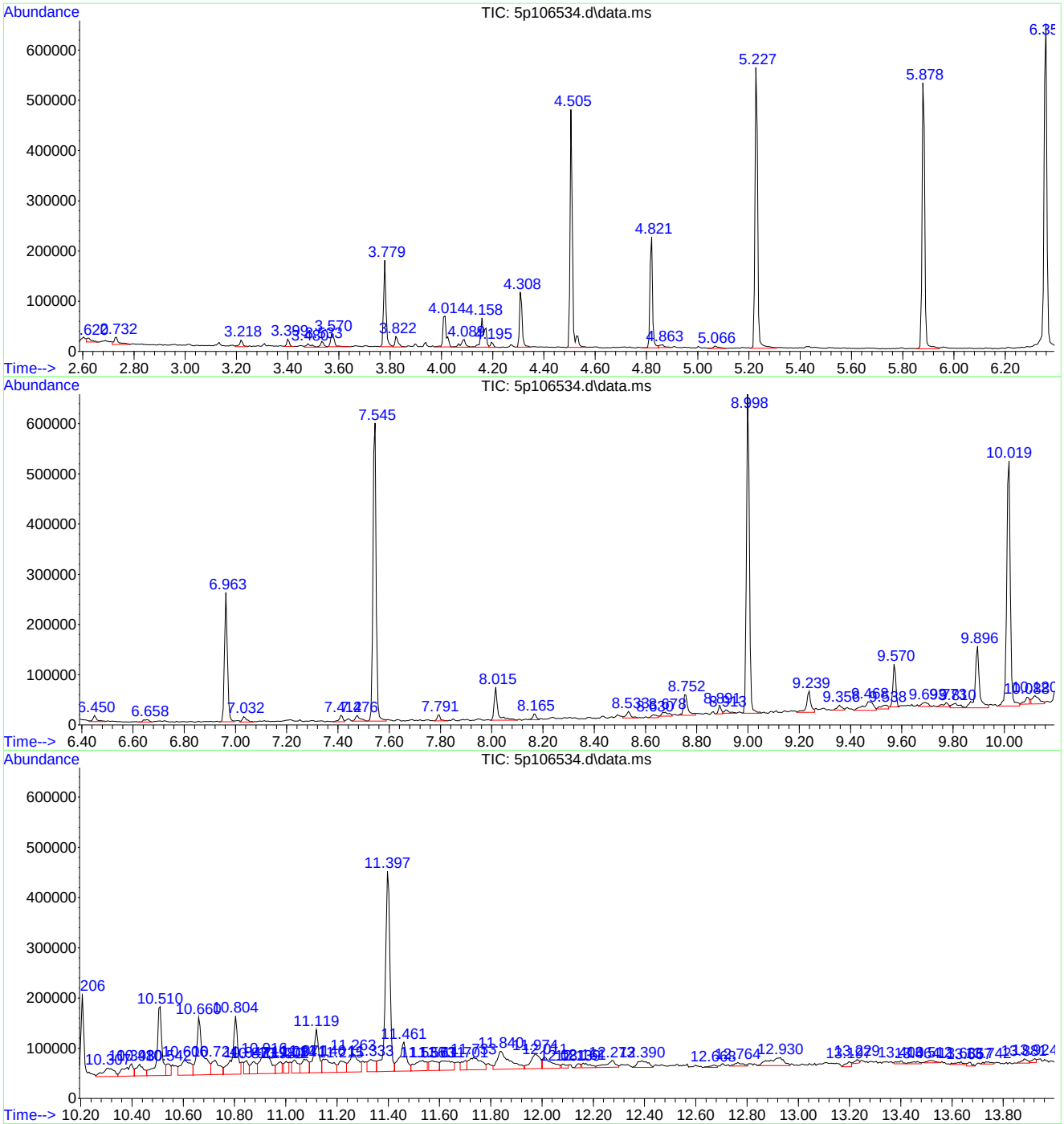
Sum of corrected areas: 7824178

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106534.d
Acq On : 25 Nov 2025 6:49 pm
Operator : thomasl
Sample : je23960-3
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106534.d
Acq On : 25 Nov 2025 6:49 pm
Operator : thomasl
Sample : je23960-3
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

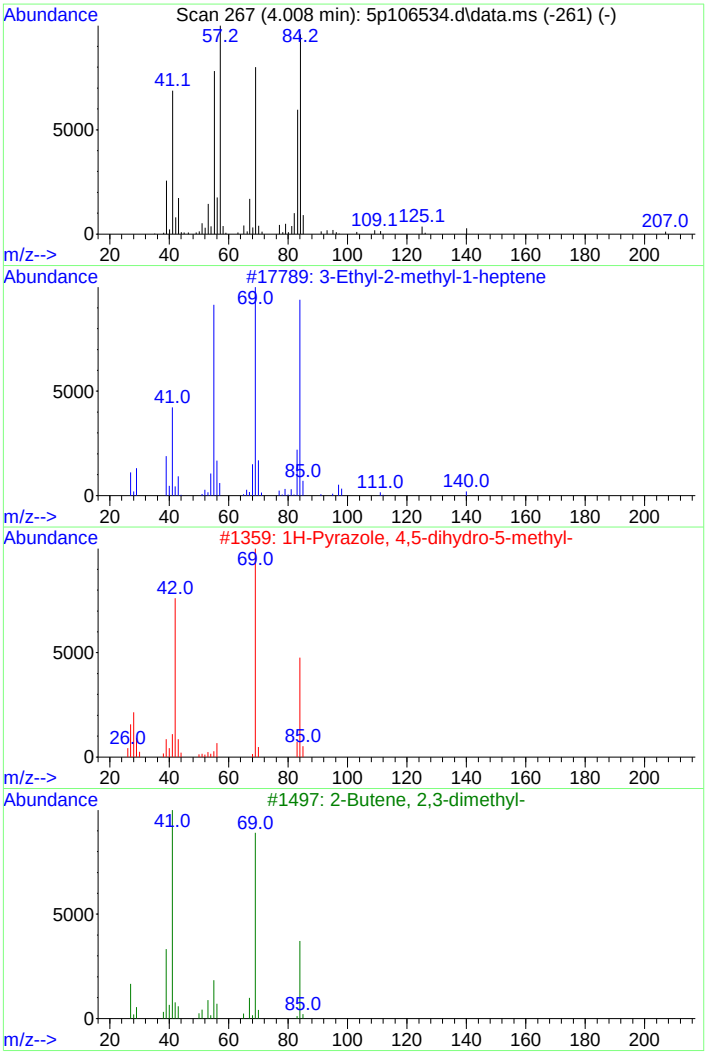
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

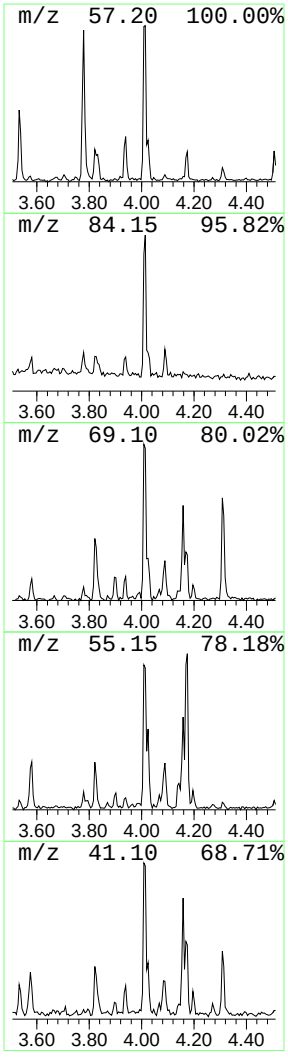
****

Peak Number 1 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.008	1.20 ppm	45950	1,4-Dichlorobenzene-d4a	4.505

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	3-Ethyl-2-methyl-1-heptene	140	C10H20	019780-60-0	58
2	1H-Pyrazole, 4,5-dihydro-5-methyl-	84	C4H8N2	001568-20-3	52
3	2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	50
4	2-Pentenal, (E)-	84	C5H8O	001576-87-0	49
5	3-Penten-2-one, (E)-	84	C5H8O	003102-33-8	47





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106534.d
Acq On : 25 Nov 2025 6:49 pm
Operator : thomasl
Sample : je23960-3
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

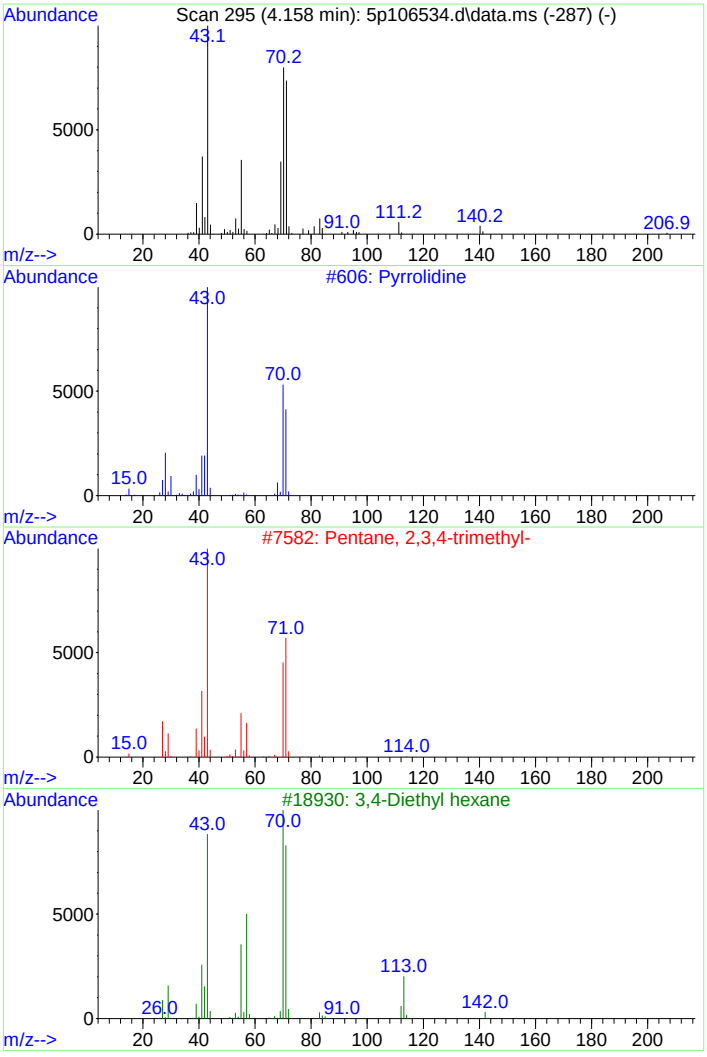
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

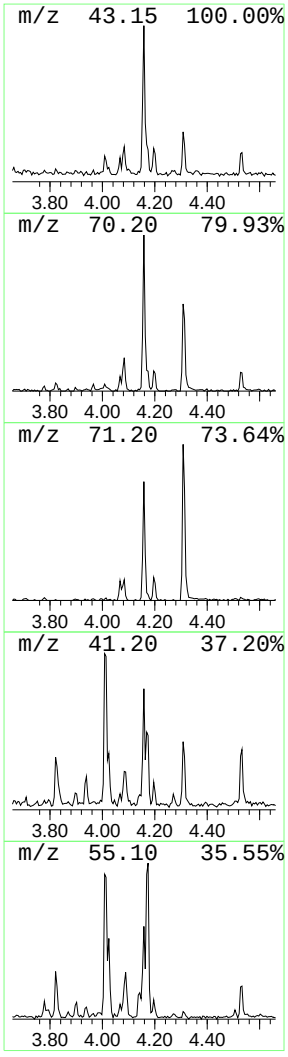
****

Peak Number 2 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.158	0.99 ppm	37891	1,4-Dichlorobenzene-d4a	4.505

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pyrrolidine	71	C4H9N	000123-75-1	86
2	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	78
3	3,4-Diethyl hexane	142	C10H22	019398-77-7	64
4	3,3-Dimethyl-2-pentanol	116	C7H16O	019781-24-9	64
5	Pentane, 2,3,4-trimethyl-	114	C8H18	000565-75-3	64





Library Search Compound Report

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Acq On : 25 Nov 2025 6:49 pm
Operator : thomasl
Sample : je23960-3
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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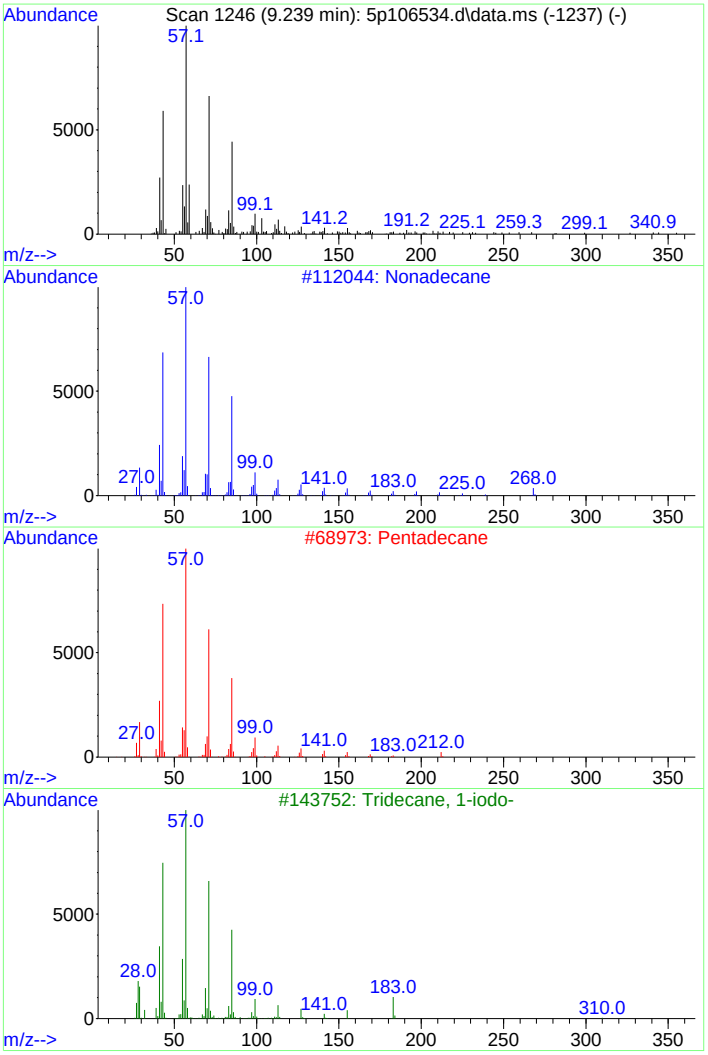
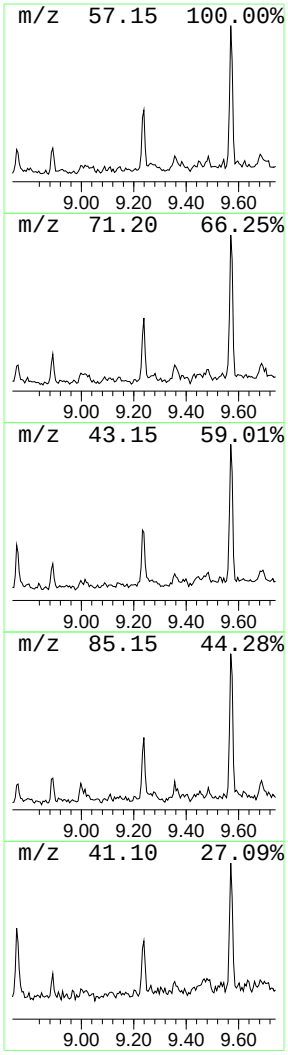
Peak Number 3 Alkane Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.239	0.83 ppm	49851	Chrysene-d12	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	68
2	Pentadecane	212	C15H32	000629-62-9	68
3	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	68
4	Tetradecane	198	C14H30	000629-59-4	68
5	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	64





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ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

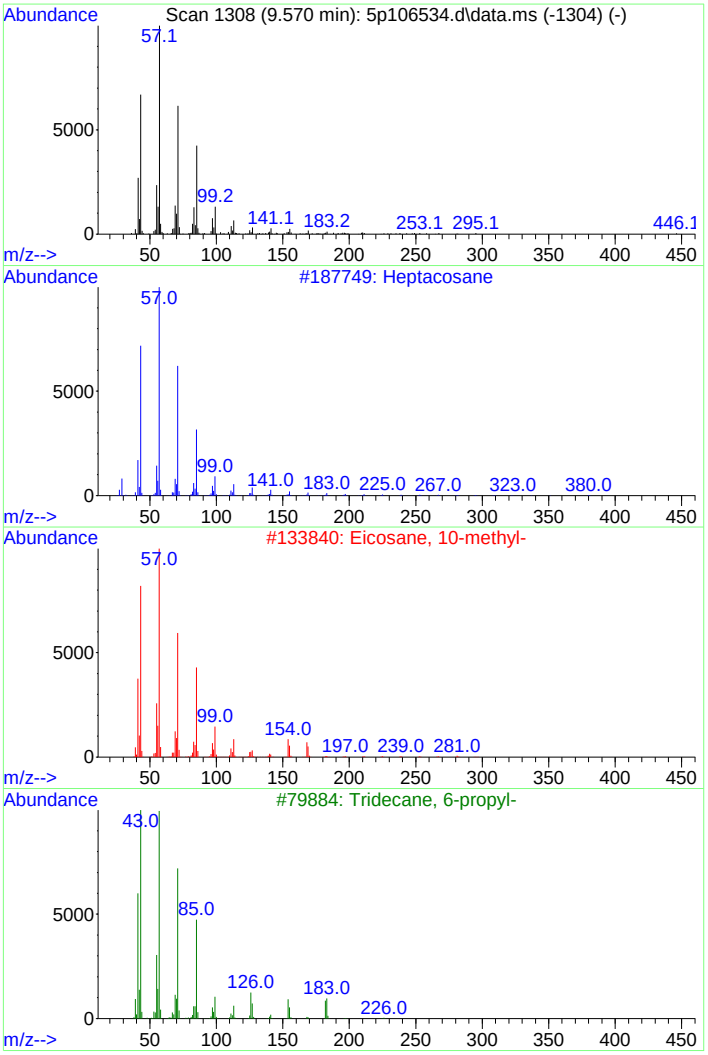
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

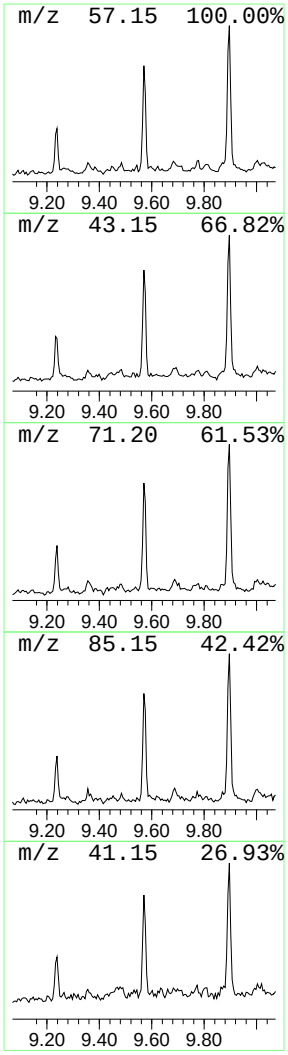
****

Peak Number 4 Alkane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.570	1.14 ppm	68662	Chrysene-d12	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Eicosane, 10-methyl-	296	C21H44	054833-23-7	86
3	Tridecane, 6-propyl-	226	C16H34	055045-10-8	83
4	Octacosane	394	C28H58	000630-02-4	81
5	Hexatriacontane	507	C36H74	000630-06-8	80





Library Search Compound Report

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ALS Vial  : 10   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title  : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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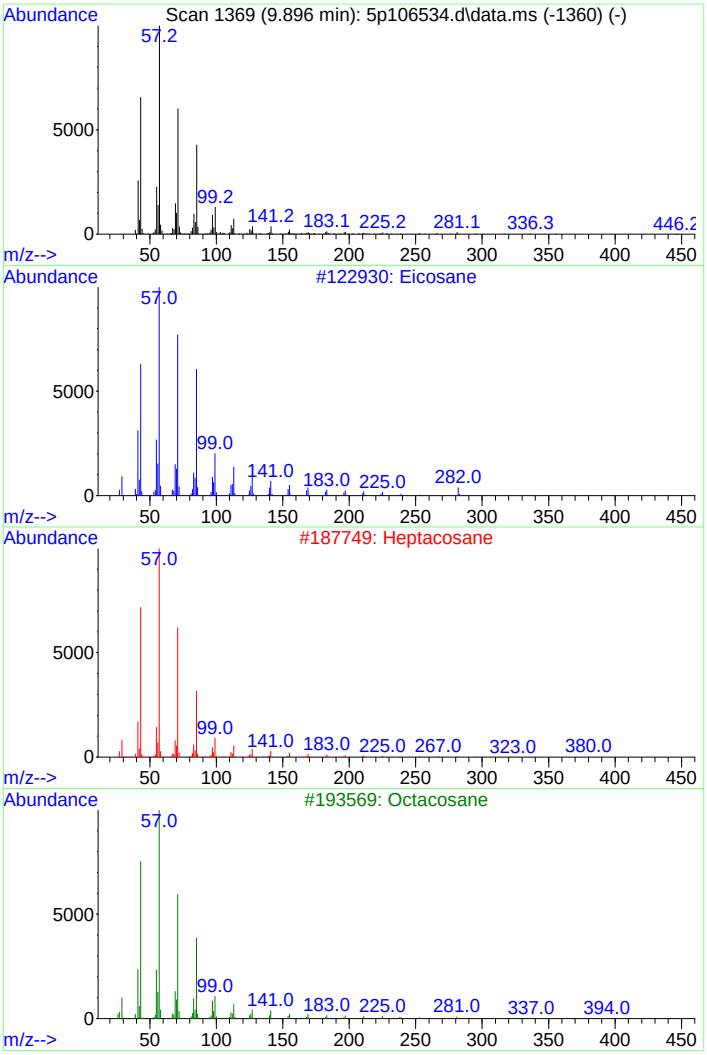
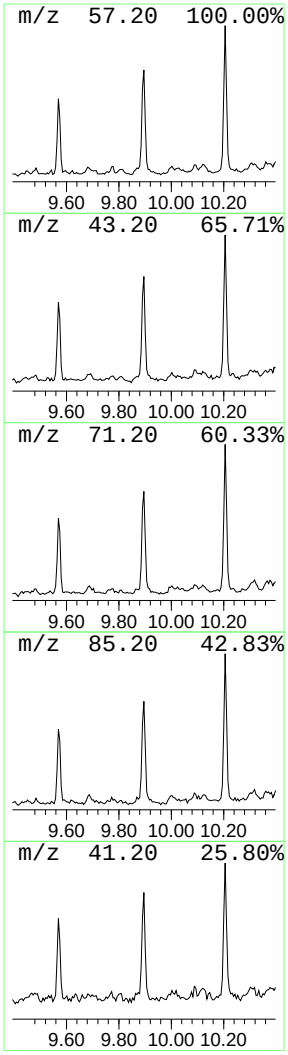
Peak Number 5 Alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.896	2.39 ppm	144215	Chrysene-d12	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Eicosane	282	C20H42	000112-95-8	93
2	Heptacosane	380	C27H56	000593-49-7	91
3	Octacosane	394	C28H58	000630-02-4	90
4	Heneicosane	296	C21H44	000629-94-7	87
5	Octacosane	394	C28H58	000630-02-4	86





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ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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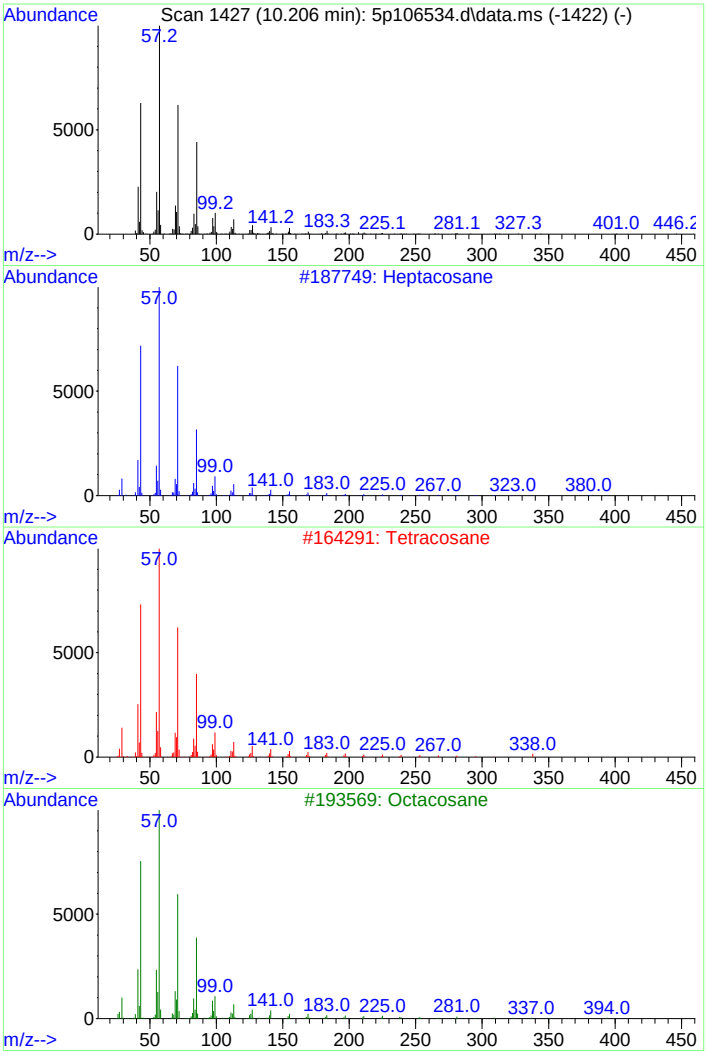
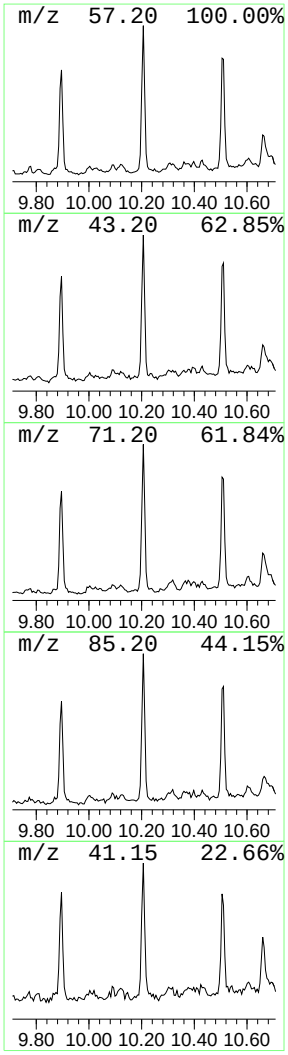
Peak Number 6 Alkane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.206	2.45 ppm	148137	Chrysene-d12a	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Tetracosane	338	C24H50	000646-31-1	91
3	Octacosane	394	C28H58	000630-02-4	91
4	Octadecane	254	C18H38	000593-45-3	87
5	Nonadecane	268	C19H40	000629-92-5	86





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Acq On : 25 Nov 2025 6:49 pm
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ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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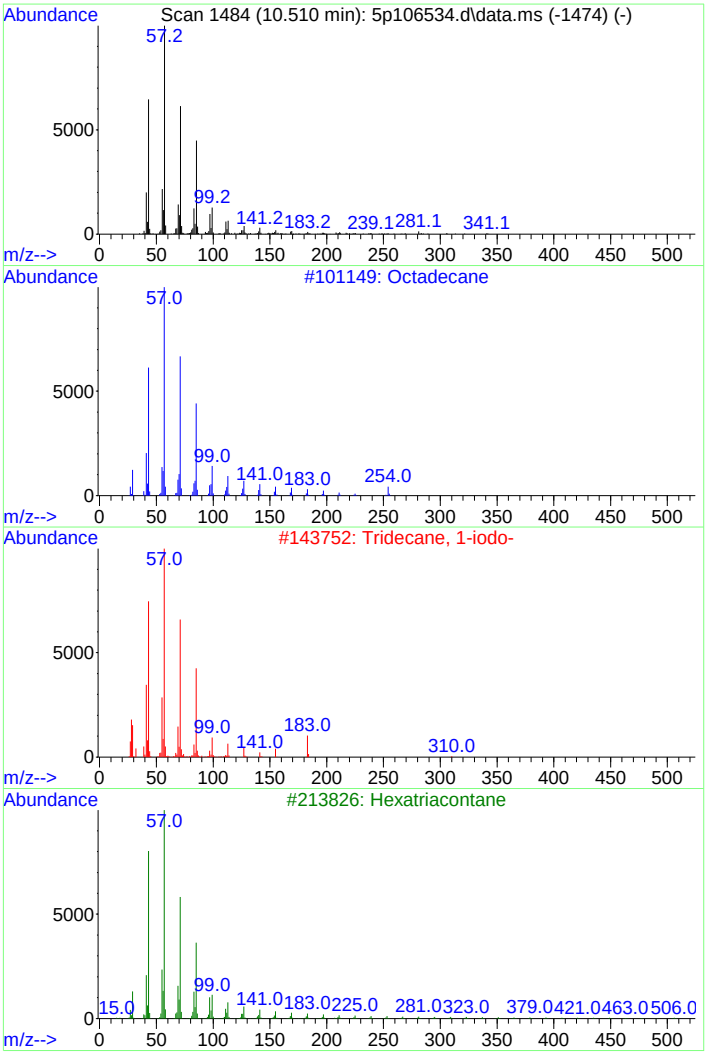
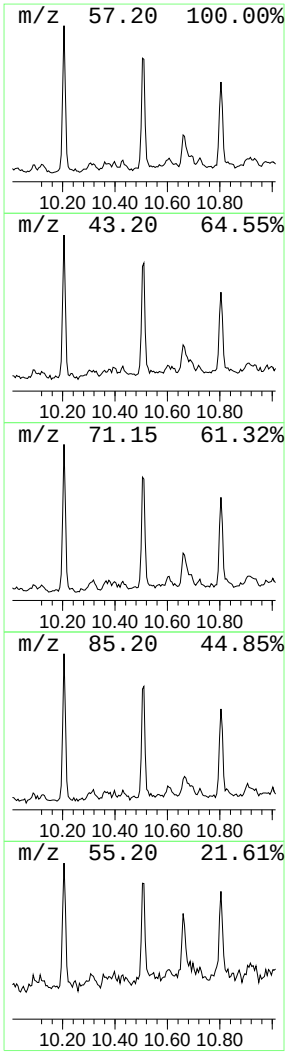
Peak Number 7 Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.510	3.04 ppm	183684	Chrysene-d12a	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecane	254	C18H38	000593-45-3	86
2	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	86
3	Hexatriacontane	507	C36H74	000630-06-8	72
4	Heptacosane	380	C27H56	000593-49-7	68
5	1-Iodo-2-methylnonane	268	C10H21I	1000101-47-9	64





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Data File : 5p106534.d
Acq On : 25 Nov 2025 6:49 pm
Operator : thomasl
Sample : je23960-3
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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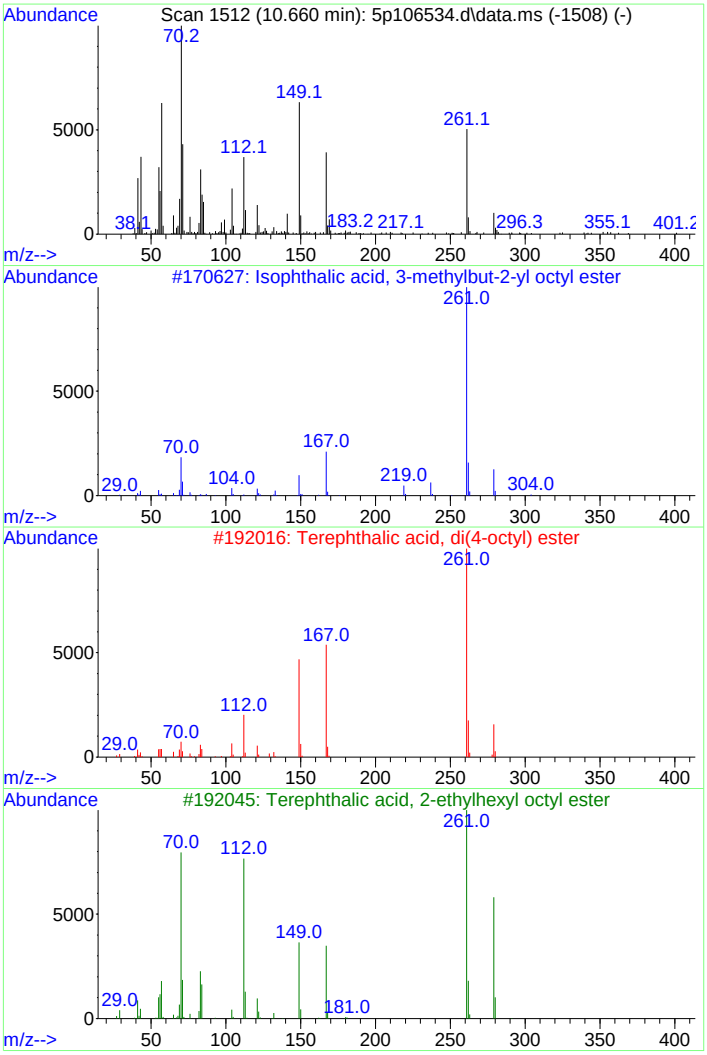
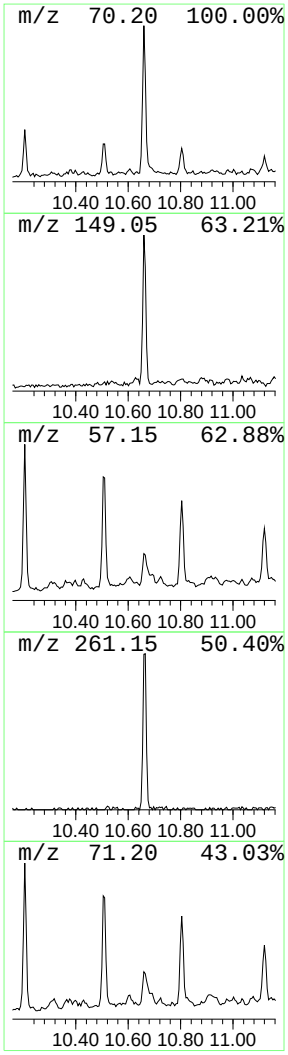
Peak Number 8 Unknown Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.660	2.23 ppm	134429	Chrysene-d12a	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Isophthalic acid, 3-methylbut-2-...	348	C21H32O4	1000344-72-4	59
2	Terephthalic acid, di(4-octyl) e...	390	C24H38O4	1000323-74-2	47
3	Terephthalic acid, 2-ethylhexyl ...	390	C24H38O4	1000324-00-5	47
4	1,2-Benzenedicarboxylic acid, mo...	278	C16H22O4	004376-20-9	27
5	Terephthalic acid, 4-octyl octyl...	390	C24H38O4	1000323-73-7	27





M5P5038LVI.M Wed Nov 26 10:24:34 2025 Page: 12

Library Search Compound Report

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Data File : 5p106534.d
Acq On : 25 Nov 2025 6:49 pm
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ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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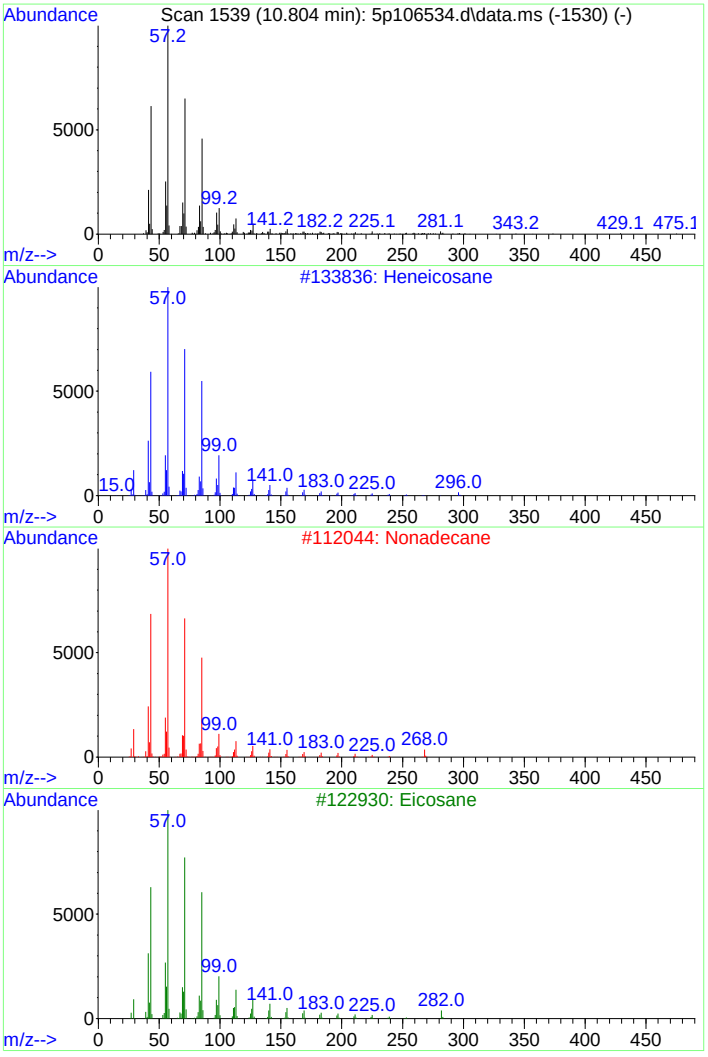
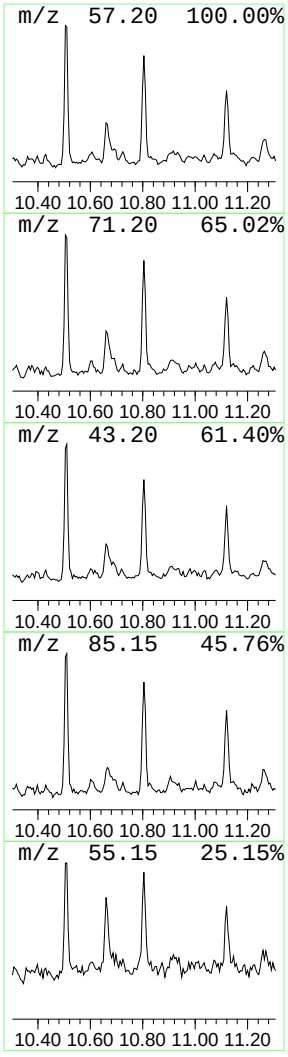
Peak Number 9 Alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.804	2.34 ppm	149004	Perylene-d12	11.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	97
2	Nonadecane	268	C19H40	000629-92-5	96
3	Eicosane	282	C20H42	000112-95-8	95
4	Octacosane	394	C28H58	000630-02-4	87
5	Tetratetracontane	619	C44H90	007098-22-8	87





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Sample : je23960-3
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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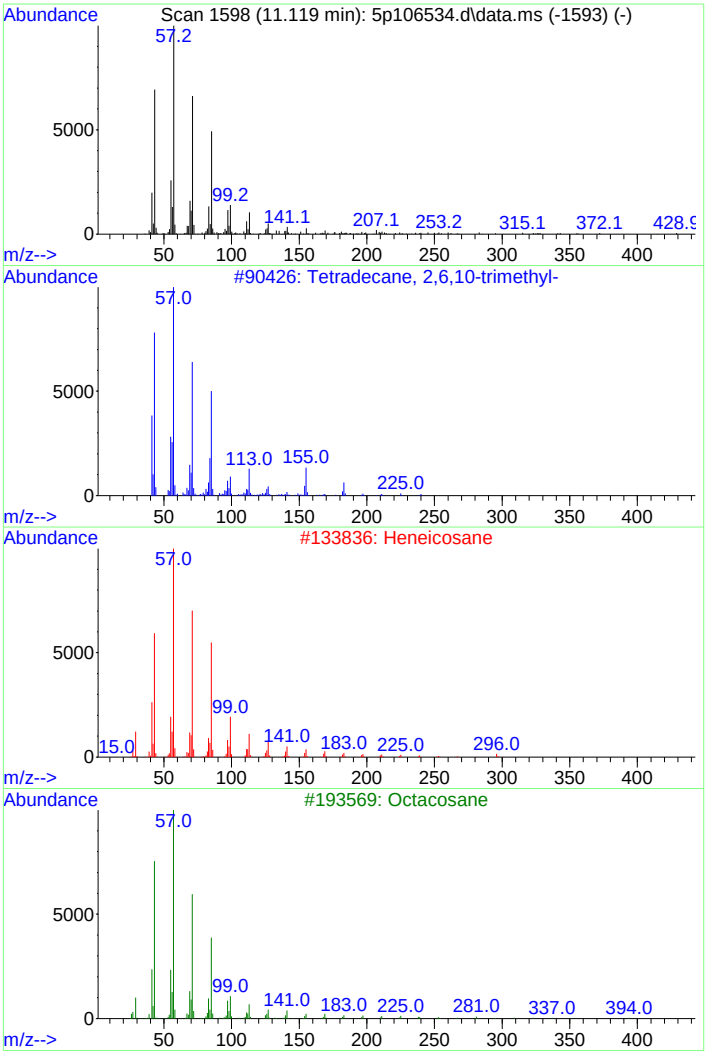
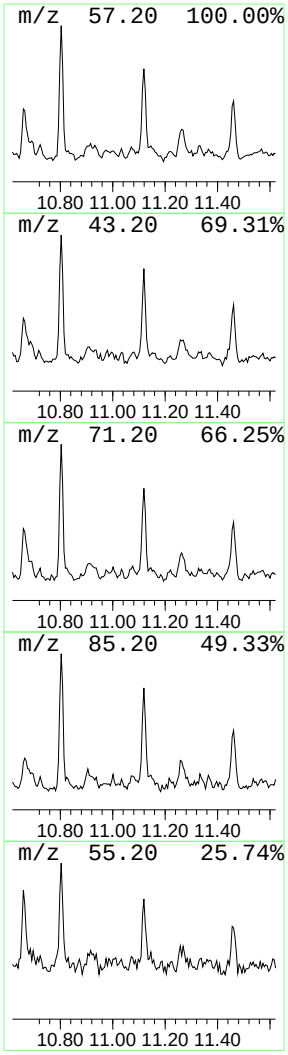
Peak Number 10 Alkane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.119	1.92 ppm	121860	Perylene-d12	11.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetradecane, 2,6,10-trimethyl-	240	C17H36	014905-56-7	93
2	Heneicosane	296	C21H44	000629-94-7	91
3	Octacosane	394	C28H58	000630-02-4	90
4	Tetracosane	338	C24H50	000646-31-1	87
5	Hexadecane	226	C16H34	000544-76-3	80





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ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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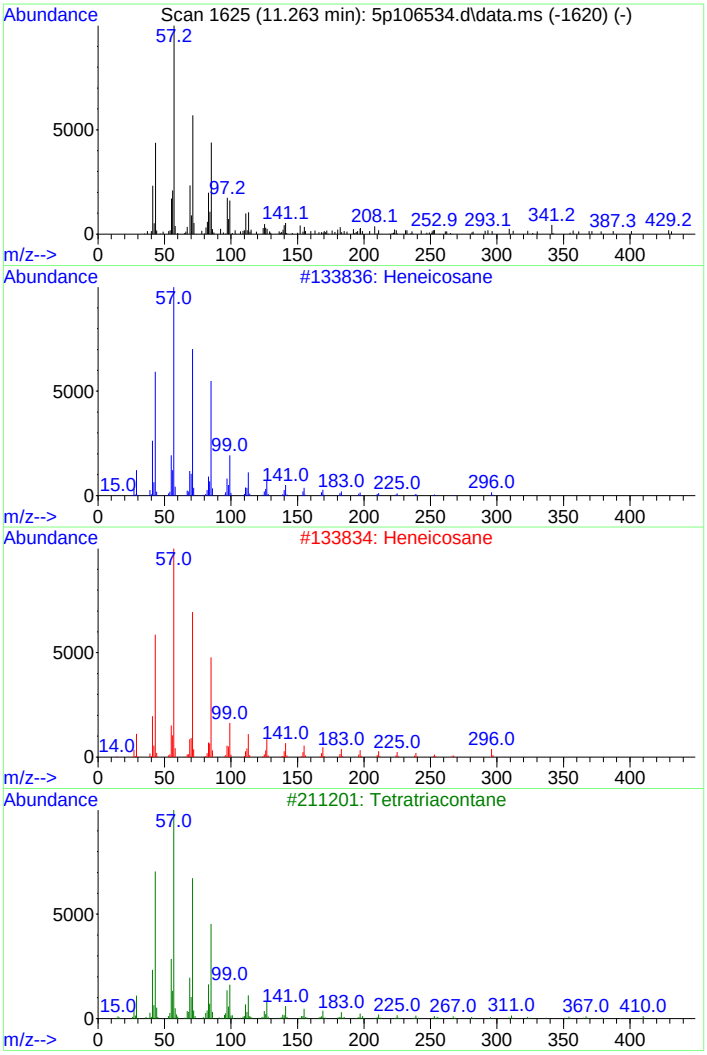
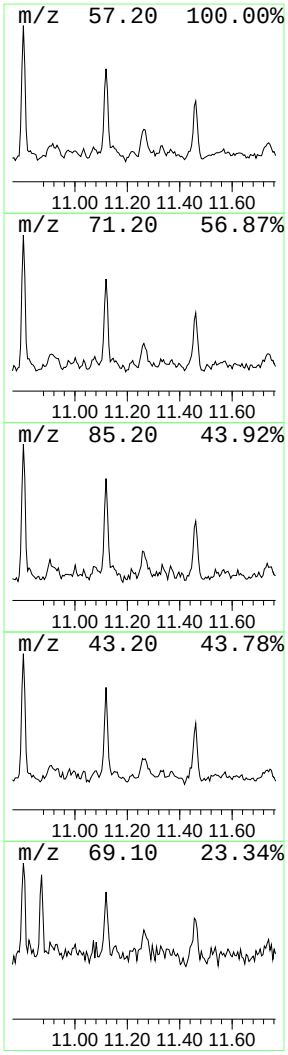
Peak Number 11 Alkane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.263	1.43 ppm	90730	Perylene-d12	11.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heneicosane	296	C21H44	000629-94-7	89
2	Heneicosane	296	C21H44	000629-94-7	76
3	Tetratriacontane	479	C34H70	014167-59-0	74
4	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	74
5	Sulfurous acid, butyl octadecyl ...	390	C22H46O3S	1000309-18-5	74





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ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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Peak Number 12 Alkane Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.461	1.58 ppm	100350	Perylene-d12	11.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Nonadecane	268	C19H40	000629-92-5	87
2	Hentriacontane	437	C31H64	000630-04-6	87
3	Eicosane	282	C20H42	000112-95-8	87
4	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	87
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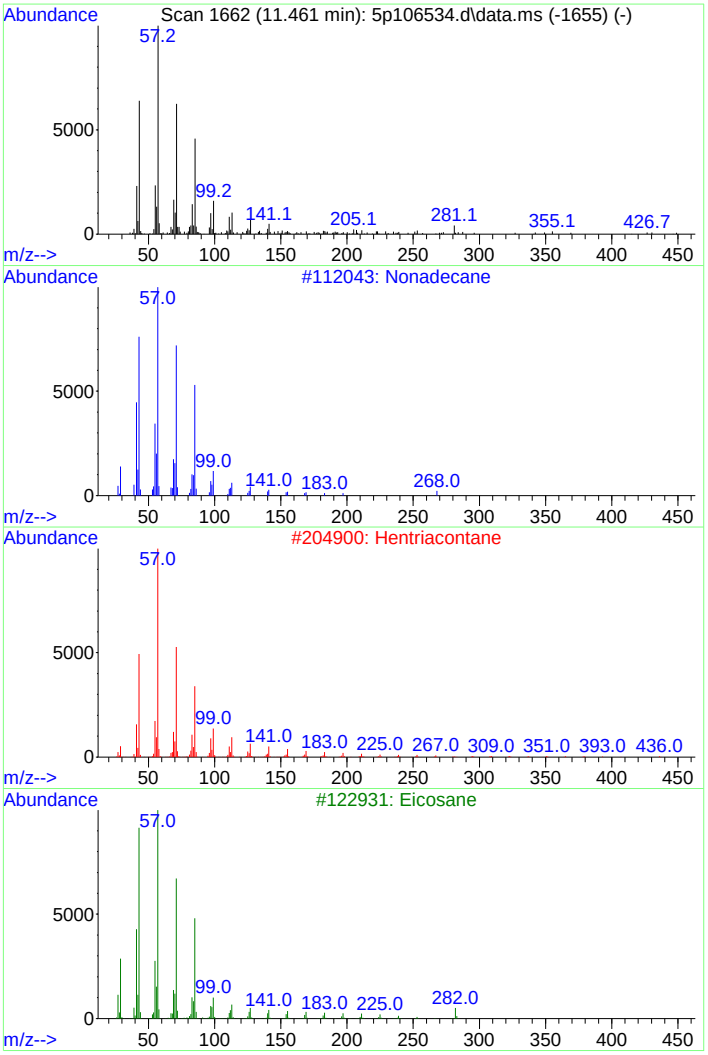

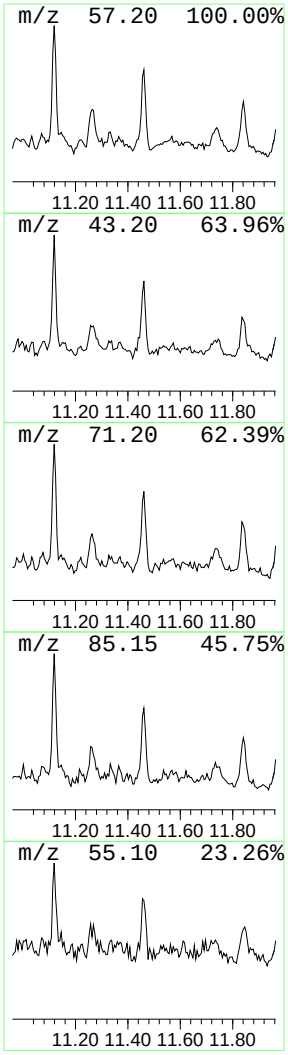

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ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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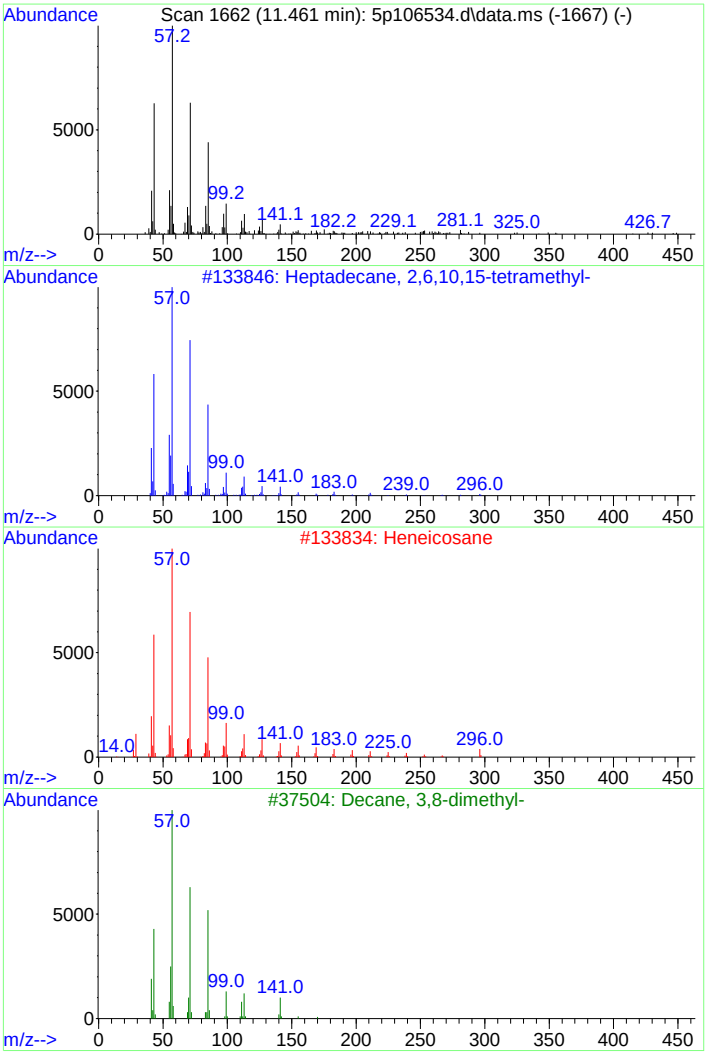
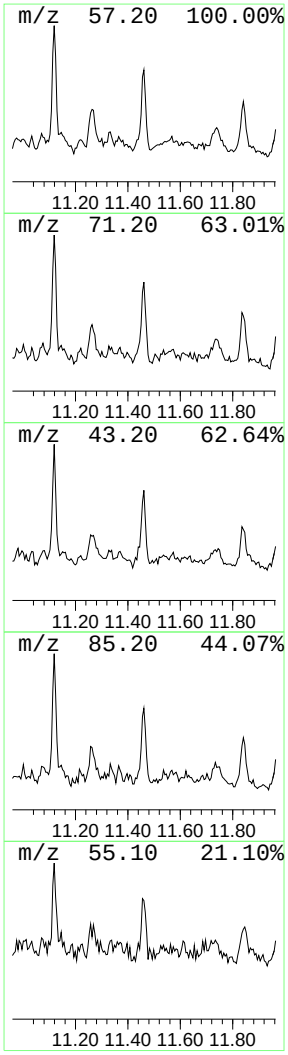
Peak Number 13 Alkane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.461	0.92 ppm	58530	Perylene-d12	11.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	97
2	Heneicosane	296	C21H44	000629-94-7	93
3	Decane, 3,8-dimethyl-	170	C12H26	017312-55-9	91
4	Octacosane	394	C28H58	000630-02-4	90
5	Heptacosane	380	C27H56	000593-49-7	90





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Data File : 5p106534.d
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ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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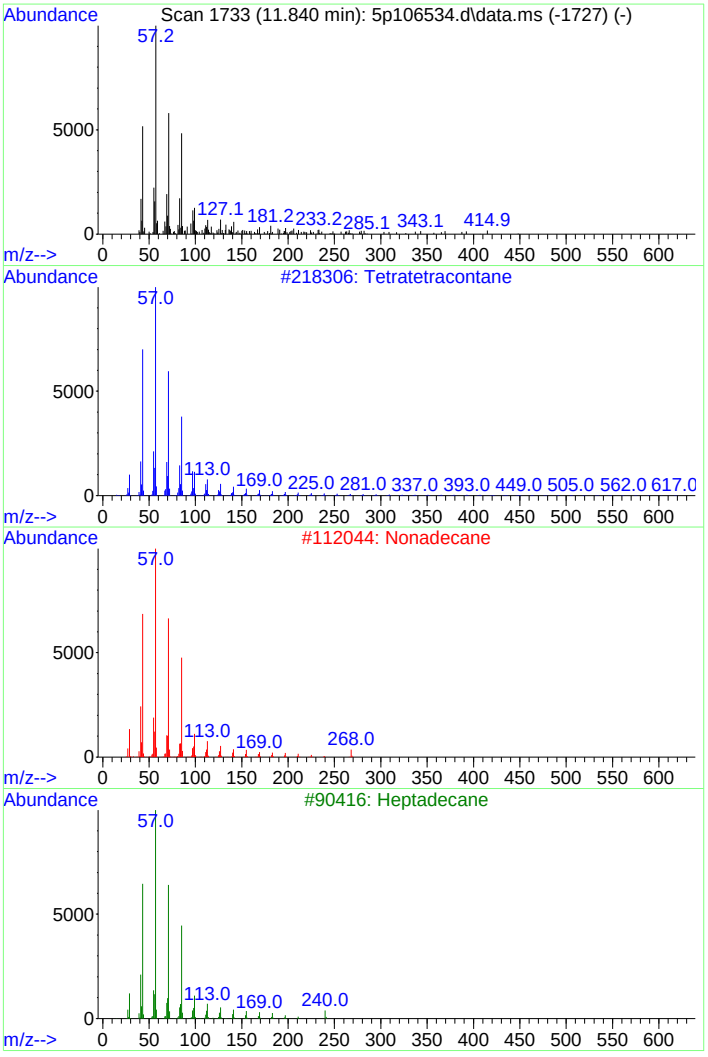
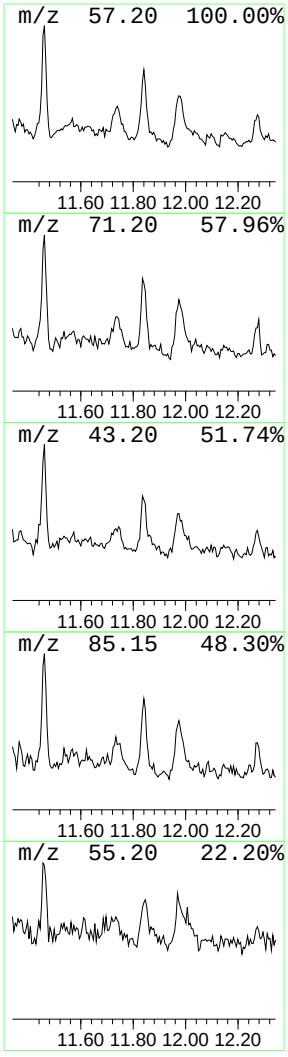
Peak Number 14 Alkane Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.840	0.89 ppm	56735	Perylene-d12	11.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tetratetracontane	619	C44H90	007098-22-8	87
2	Nonadecane	268	C19H40	000629-92-5	80
3	Heptadecane	240	C17H36	000629-78-7	80
4	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	80
5	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	72





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106534.d
Acq On : 25 Nov 2025 6:49 pm
Operator : thomasl
Sample : je23960-3
Misc : op69240,e5p5039,250,,,1,1
ALS Vial : 10 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard		
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	4.008	1.2	ppm	45950	2	4.505	305832	8.0
Unknown	4.158	1.0	ppm	37891	2	4.505	305832	8.0
Alkane	9.239	0.8	ppm	49851	9	10.019	482956	8.0
Alkane	9.570	1.1	ppm	68662	9	10.019	482956	8.0
Alkane	9.896	2.4	ppm	144215	9	10.019	482956	8.0
Alkane	10.206	2.5	ppm	148137	10	10.019	482956	8.0
Alkane	10.510	3.0	ppm	183684	10	10.019	482956	8.0
Unknown	10.660	2.2	ppm	134429	10	10.019	482956	8.0
Alkane	10.804	2.3	ppm	149004	11	11.397	509034	8.0
Alkane	11.119	1.9	ppm	121860	11	11.397	509034	8.0
Alkane	11.263	1.4	ppm	90730	11	11.397	509034	8.0
Alkane	11.461	1.6	ppm	100350	11	11.397	509034	8.0
Alkane	11.461	0.9	ppm	58530	11	11.397	509034	8.0
Alkane	11.840	0.9	ppm	56735	11	11.397	509034	8.0

Manual Integrations APPROVED (compounds with "m" flag)
Jezreel Oblin 11/26/25 04:19

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\ecs503\
Data File : cs9992.D
Acq On : 25 Nov 2025 09:48 pm
Operator : alejanda
Sample : je23960-1 Inst : GCMS_CS
Misc : op69305a,ecs503,250,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 26 05:28:03 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\mcs491SIMLVI.M
Quant Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Wed Nov 26 04:40:28 2025
Response via : Initial Calibration

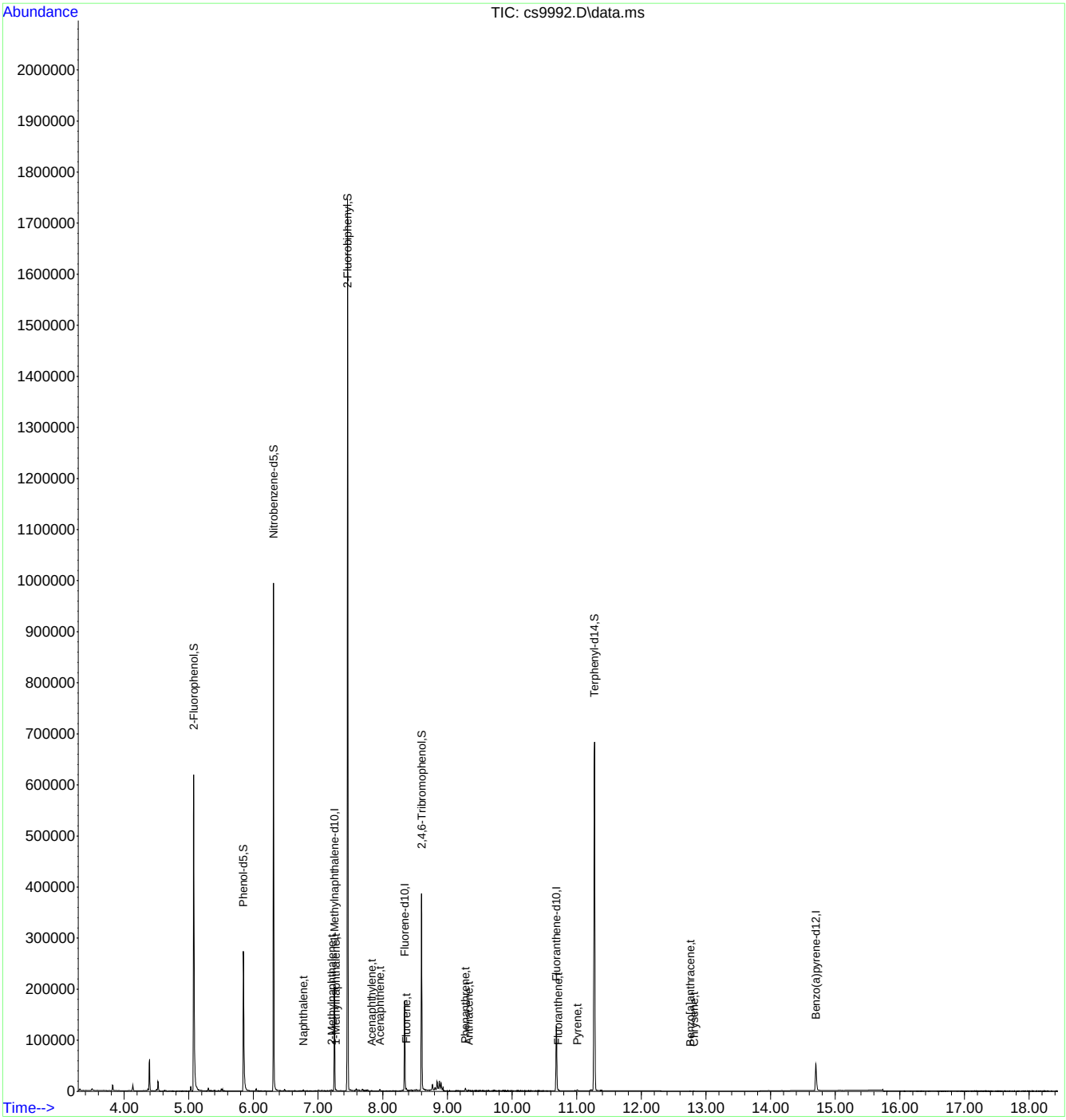
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.252	150	53873	800.00	ppb	0.00
11) Fluorene-d10	8.339	176	67284	800.00	ppb	0.00
18) Fluoranthene-d10	10.685	212	97510	800.00	ppb	-0.03
28) Benzo(a)pyrene-d12	14.698	264	48957	800.00	ppb	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.075	112	265822	4427.54	ppb	0.00
Spiked Amount 10000.000			Recovery =	44.28%		
4) Phenol-d5	5.844	99	231289	3151.68	ppb	0.00
Spiked Amount 10000.000			Recovery =	31.52%		
6) Nitrobenzene-d5	6.310	82	428061	6769.12	ppb	0.00
Spiked Amount 10000.000			Recovery =	67.69%		
12) 2-Fluorobiphenyl	7.456	172	717413	6049.75	ppb	0.00
Spiked Amount 10000.000			Recovery =	60.50%		
17) 2,4,6-Tribromophenol	8.600	330	122117	7231.27	ppb	0.00
Spiked Amount 10000.000			Recovery =	72.31%		
25) Terphenyl-d14	11.276	244	491372	6945.49	ppb	-0.03
Spiked Amount 10000.000			Recovery =	69.45%		
Target Compounds						Qvalue
7) Naphthalene	6.769	128	1166m	5.5505	ppb	
9) 2-Methylnaphthalene	7.209	141	723	6.7764	ppb	78
10) 1-Methylnaphthalene	7.275	141	517	4.7378	ppb	83
13) Acenaphthylene	7.827	152	487	2.5880	ppb	88
14) Acenaphthene	7.957	153	1724	13.7812	ppb	84
15) Fluorene	8.365	166	1327	9.6908	ppb	99
21) Phenanthrene	9.279	178	3449m	19.7352	ppb	
22) Anthracene	9.330	178	1272m	7.4917	ppb	
23) Fluoranthene	10.713	202	1284	6.7252	ppb	94
24) Pyrene	11.009	202	1080	5.7011	ppb	93
26) Benzo[a]anthracene	12.757	228	222	1.7031	ppb	77
27) Chrysene	12.814	228	263	1.9204	ppb	95

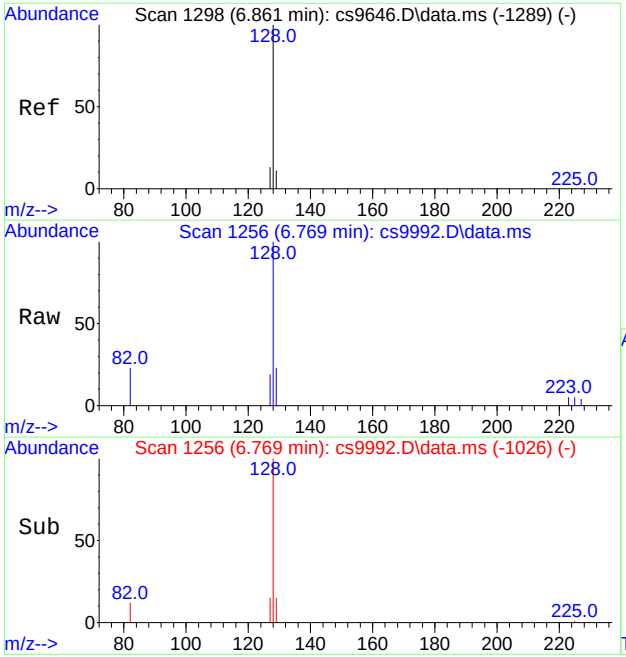
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\ecs503\
Data File : cs9992.D
Acq On : 25 Nov 2025 09:48 pm
Operator : alejanda
Sample : je23960-1 Inst : GCMS_CS
Misc : op69305a,ecs503,250,,,1,1
ALS Vial : 12 Sample Multiplier: 1

Quant Time: Nov 26 05:28:03 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\mcs491SIMLVI.M
Quant Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Wed Nov 26 04:40:28 2025
Response via : Initial Calibration

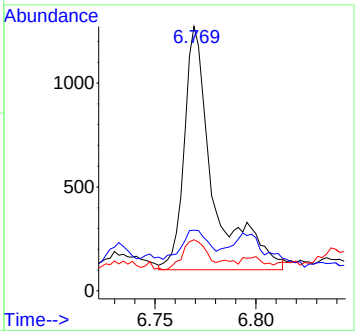


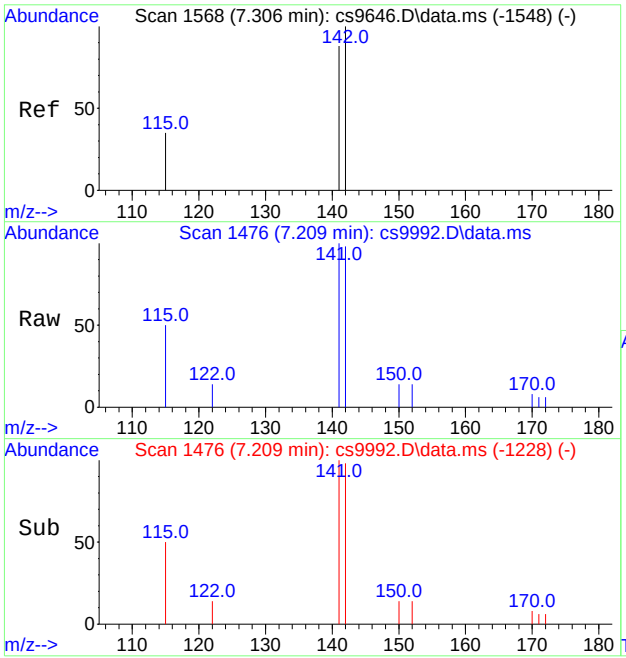


#7
Naphthalene
Concen: 5.5505 ppb m
RT: 6.769 min Scan# 1256
Delta R.T. 0.002 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:128 Resp: 1166

Ion	Ratio	Lower	Upper
128	100		
129	22.9	0.0	41.0
127	19.3	0.0	42.8

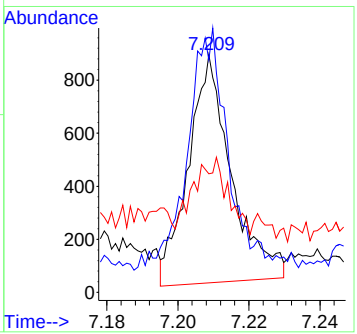


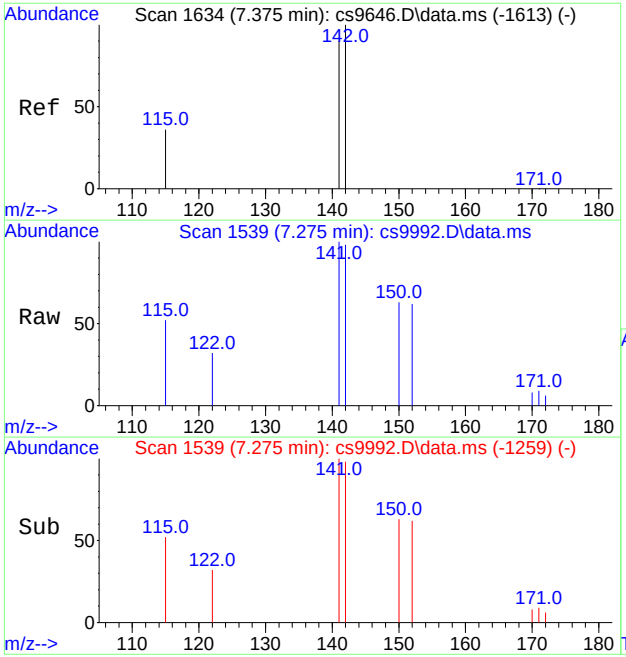


#9
2-Methylnaphthalene
Concen: 6.7764 ppb
RT: 7.209 min Scan# 1476
Delta R.T. 0.002 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:141 Resp: 723

Ion	Ratio	Lower	Upper
141	100		
142	93.1	84.6	144.6
115	21.5	9.7	69.7

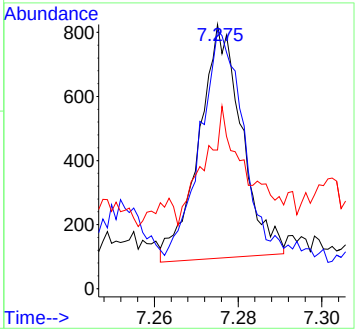


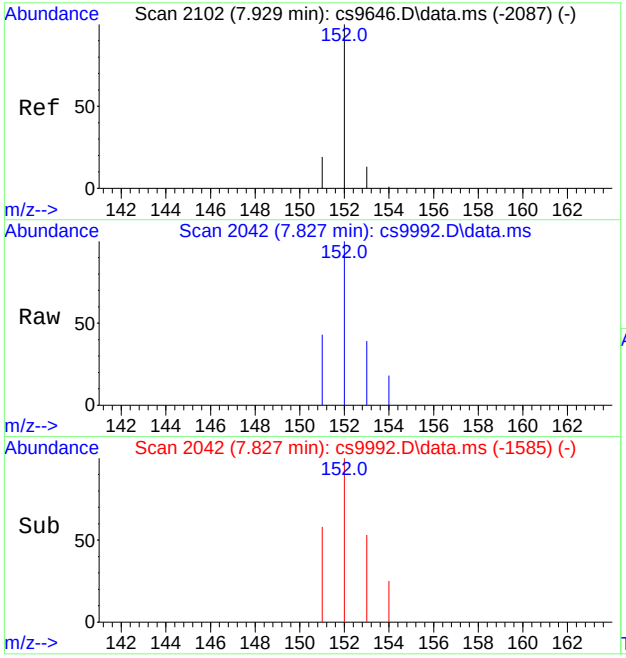


#10
1-Methylnaphthalene
Concen: 4.7378 ppb
RT: 7.275 min Scan# 1539
Delta R.T. 0.000 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:141 Resp: 517

Ion	Ratio	Lower	Upper
141	100		
142	97.8	81.7	141.7
115	24.2	10.5	70.5

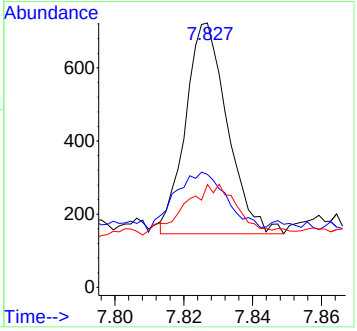


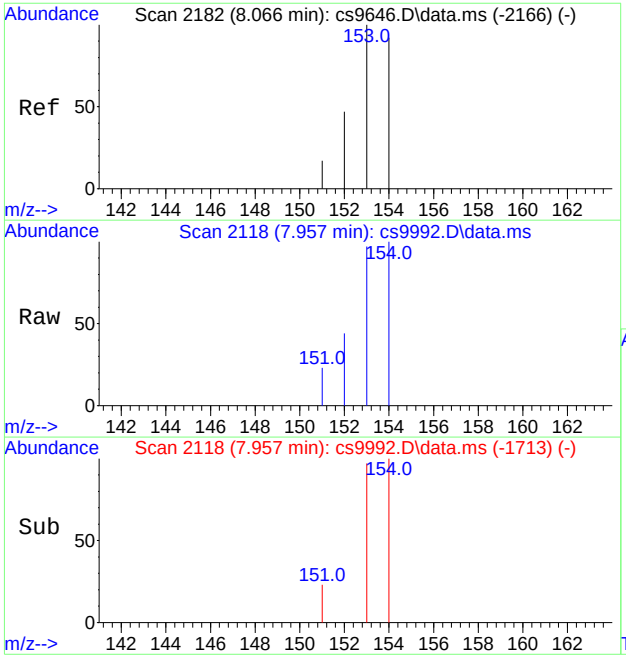


#13
Acenaphthylene
Concen: 2.5880 ppb
RT: 7.827 min Scan# 2042
Delta R.T. 0.004 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:152 Resp: 487

Ion	Ratio	Lower	Upper
152	100		
151	22.3	0.0	49.1
153	20.3	0.0	42.8

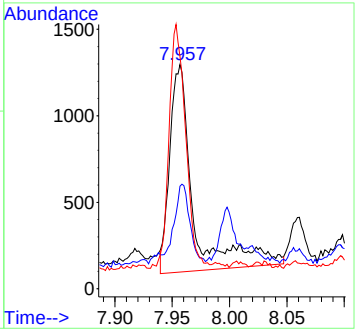


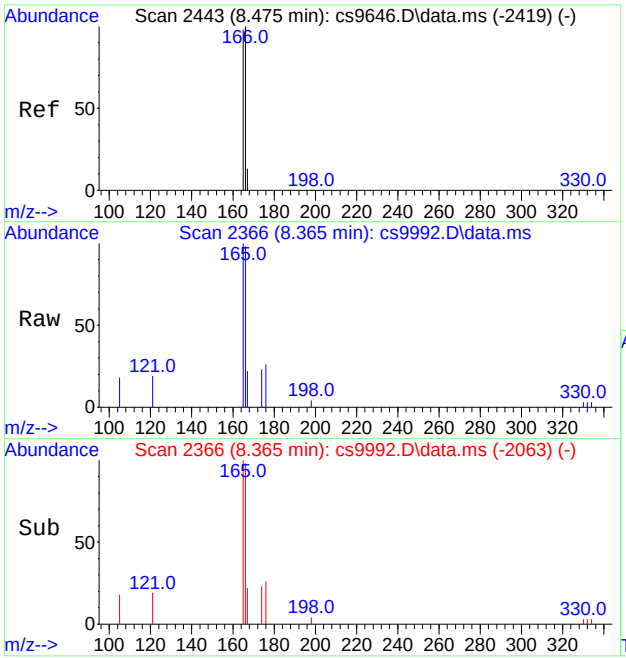


#14
Acenaphthene
Concen: 13.7812 ppb
RT: 7.957 min Scan# 2118
Delta R.T. -0.002 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:153 Resp: 1724

Ion	Ratio	Lower	Upper
153	100		
152	37.5	17.1	77.1
154	108.6	61.9	121.9

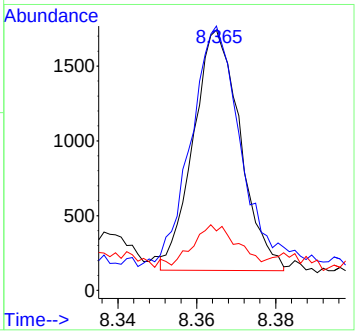


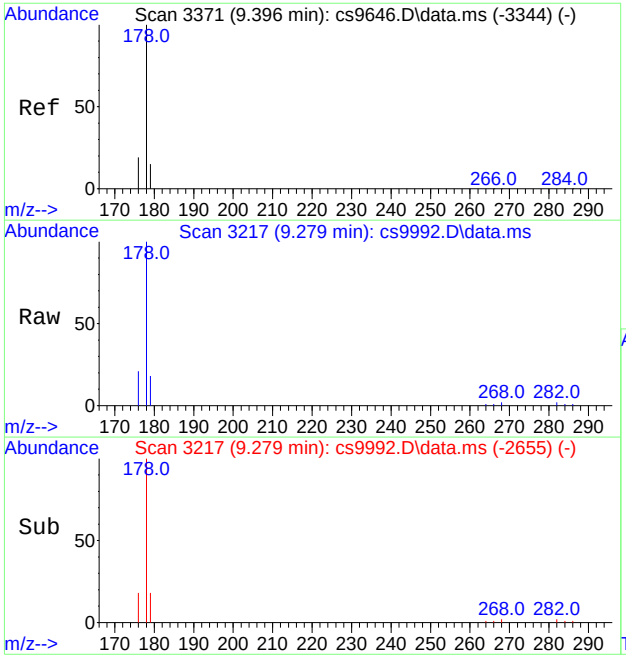


#15
Fluorene
Concen: 9.6908 ppb
RT: 8.365 min Scan# 2366
Delta R.T. 0.002 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:166 Resp: 1327

Ion	Ratio	Lower	Upper
166	100		
165	97.2	67.7	127.7
167	10.8	0.0	42.9

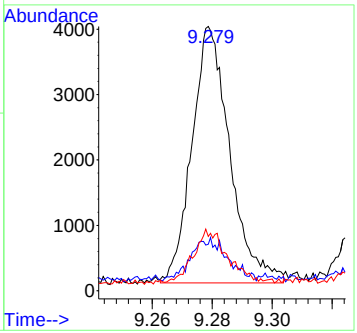


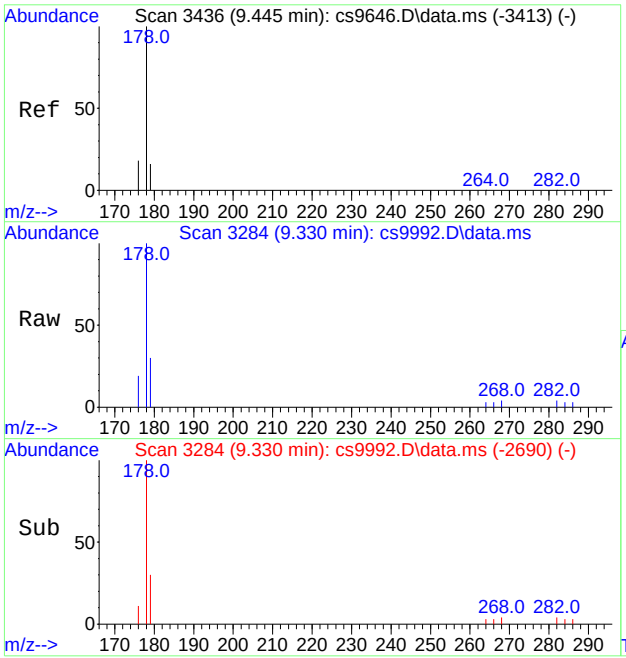


#21
Phenanthrene
Concen: 19.7352 ppb m
RT: 9.279 min Scan# 3217
Delta R.T. 0.003 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:178 Resp: 3449

Ion	Ratio	Lower	Upper
178	100		
179	17.7	0.0	45.0
176	20.6	0.0	49.1

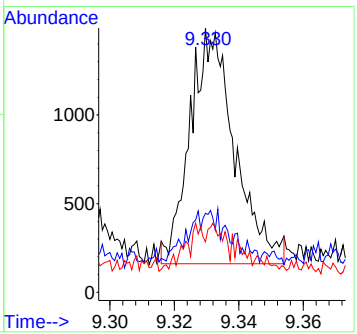


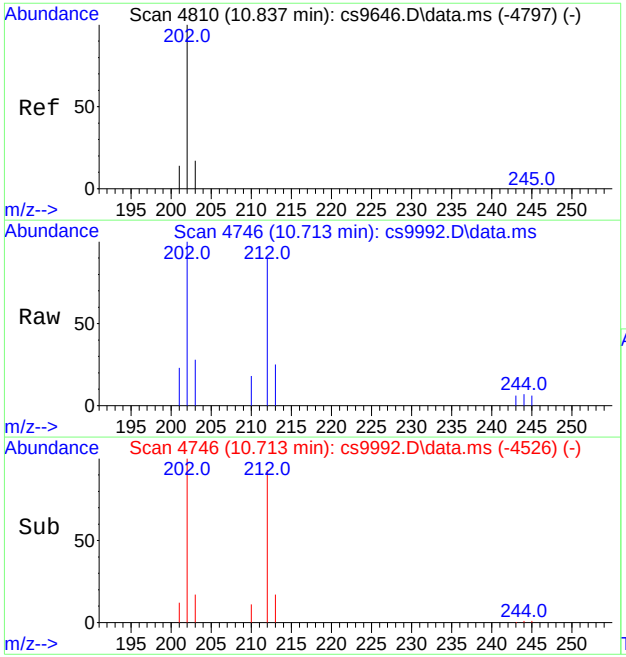


#22
Anthracene
Concen: 7.4917 ppb m
RT: 9.330 min Scan# 3284
Delta R.T. 0.004 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:178 Resp: 1272

Ion	Ratio	Lower	Upper
178	100		
179	29.9	0.0	45.5
176	19.0	0.0	47.9

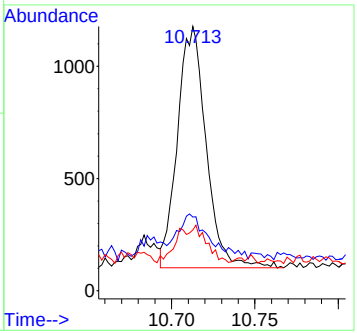


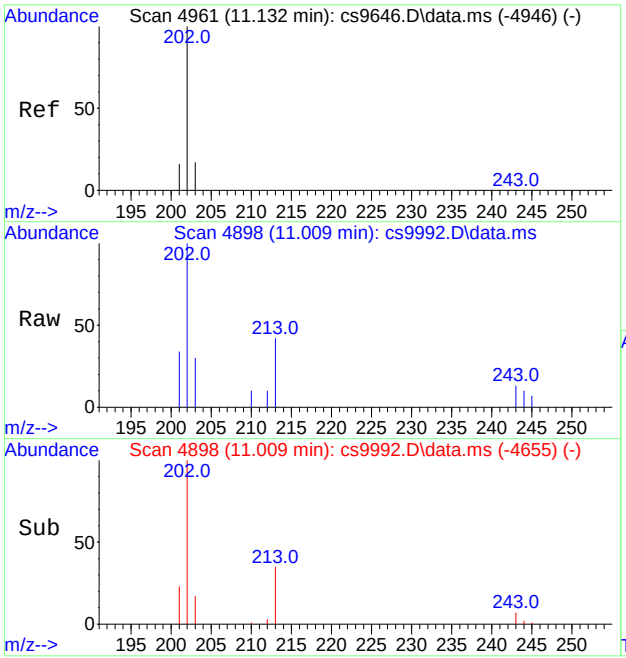


#23
Fluoranthene
Concen: 6.7252 ppb
RT: 10.713 min Scan# 4746
Delta R.T. -0.031 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:202 Resp: 1284

Ion	Ratio	Lower	Upper
202	100		
203	13.1	0.0	46.7
201	12.7	0.0	43.9

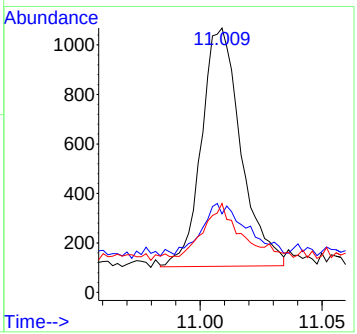


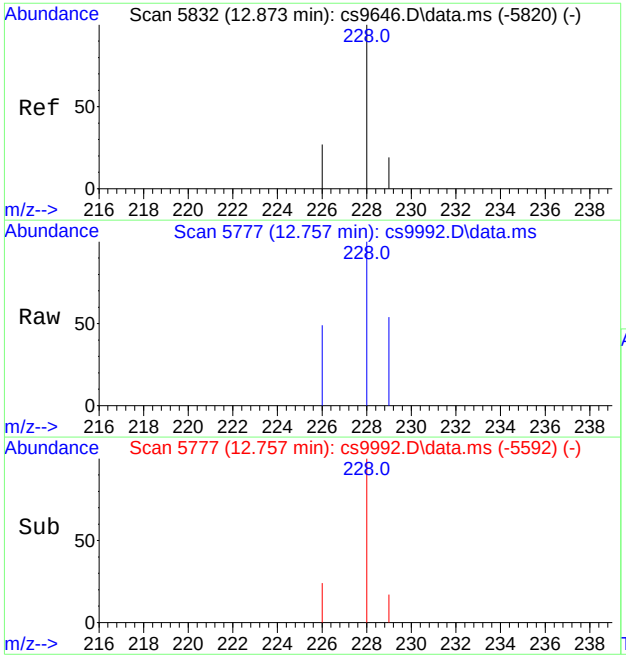


#24
Pyrene
Concen: 5.7011 ppb
RT: 11.009 min Scan# 4898
Delta R.T. -0.027 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:202 Resp: 1080

Ion	Ratio	Lower	Upper
202	100		
203	17.5	0.0	47.0
201	22.0	0.0	46.2

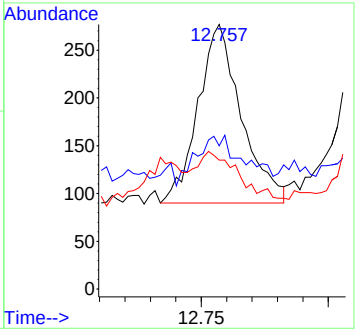


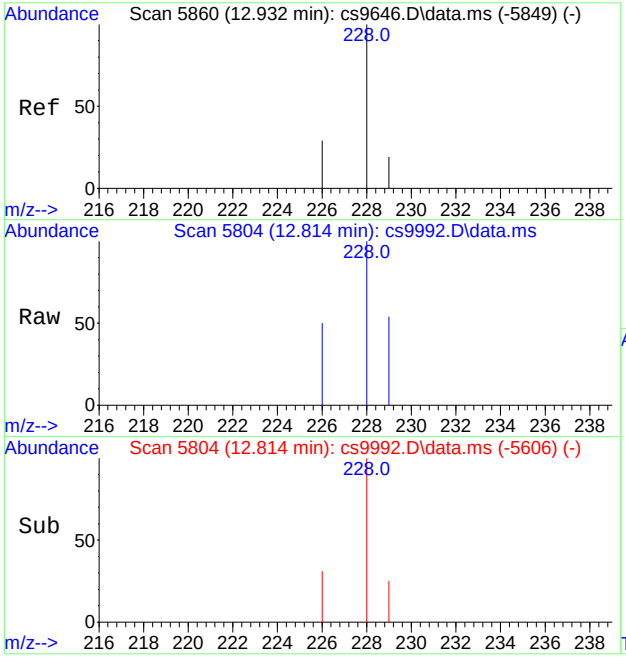


#26
Benzo[a]anthracene
Concen: 1.7031 ppb
RT: 12.757 min Scan# 5777
Delta R.T. -0.019 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:228 Resp: 222

Ion	Ratio	Lower	Upper
228	100		
229	14.3	0.0	48.9
226	10.4	0.0	56.9

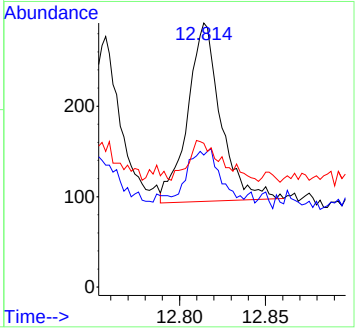




#27
Chrysene
Concen: 1.9204 ppb
RT: 12.814 min Scan# 5804
Delta R.T. -0.019 min
Lab File: cs9992.D
Acq: 25 Nov 2025 09:48 pm

Tgt Ion:228 Resp: 263

Ion	Ratio	Lower	Upper
228	100		
226	25.9	0.0	59.5
229	19.6	0.0	48.8



Manual Integrations APPROVED (compounds with "m" flag)
Jezreel Oblin
11/26/25 04:19

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\ecs503\
Data File : cs9993.D
Acq On : 25 Nov 2025 10:12 pm
Operator : alejanda
Sample : je23960-2 Inst : GCMS_CS
Misc : op69305a,ecs503,250,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 26 05:30:14 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\mcs491SIMLVI.M
Quant Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Wed Nov 26 04:40:28 2025
Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.253	150	54089	800.00	ppb	0.00
11) Fluorene-d10	8.339	176	67195	800.00	ppb	0.00
18) Fluoranthene-d10	10.685	212	98207	800.00	ppb	-0.04
28) Benzo(a)pyrene-d12	14.700	264	48816	800.00	ppb	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.074	112	248965	4130.21	ppb	0.00
Spiked Amount 10000.000			Recovery =	41.30%		
4) Phenol-d5	5.844	99	223405	3032.09	ppb	0.00
Spiked Amount 10000.000			Recovery =	30.32%		
6) Nitrobenzene-d5	6.310	82	362103	5703.23	ppb	0.00
Spiked Amount 10000.000			Recovery =	57.03%		
12) 2-Fluorobiphenyl	7.456	172	641851	5419.72	ppb	0.00
Spiked Amount 10000.000			Recovery =	54.20%		
17) 2,4,6-Tribromophenol	8.600	330	114849	6809.89	ppb	0.00
Spiked Amount 10000.000			Recovery =	68.10%		
25) Terphenyl-d14	11.276	244	464868	6524.22	ppb	-0.03
Spiked Amount 10000.000			Recovery =	65.24%		
Target Compounds						Qvalue
7) Naphthalene	6.771	128	587m	2.7831	ppb	
9) 2-Methylnaphthalene	7.212	141	348	3.2486	ppb	88
14) Acenaphthene	7.962	153	384	3.0737	ppb	89
15) Fluorene	8.366	166	711	5.1992	ppb	93
21) Phenanthrene	9.280	178	1958m	11.1242	ppb	
22) Anthracene	9.333	178	871m	5.0935	ppb	
23) Fluoranthene	10.711	202	1151	5.9858	ppb	97
24) Pyrene	11.009	202	964	5.0526	ppb	94
26) Benzo[a]anthracene	12.761	228	296	2.2547	ppb	97
27) Chrysene	12.816	228	391	2.8348	ppb	98

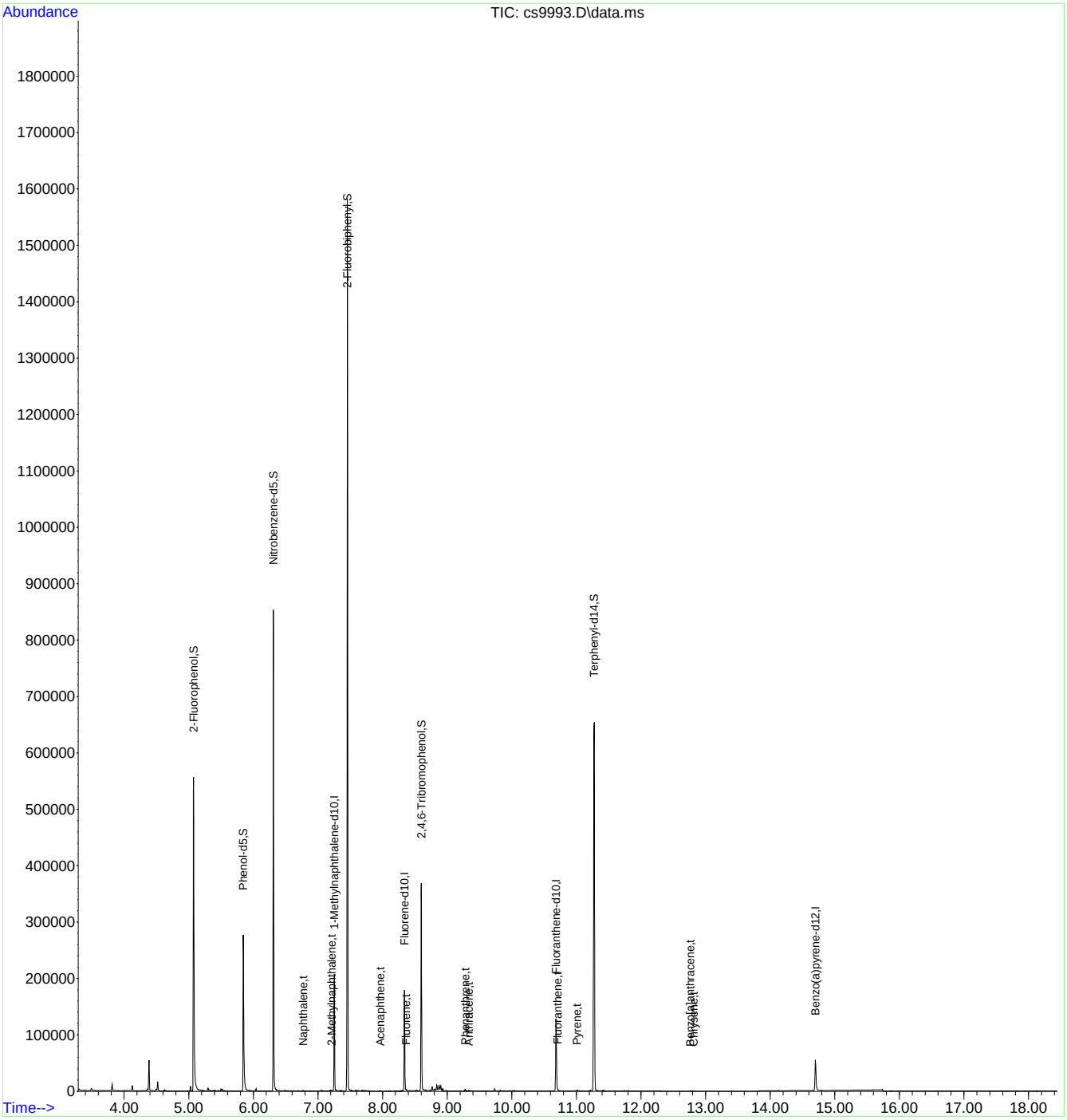
(#) = qualifier out of range (m) = manual integration (+) = signals summed

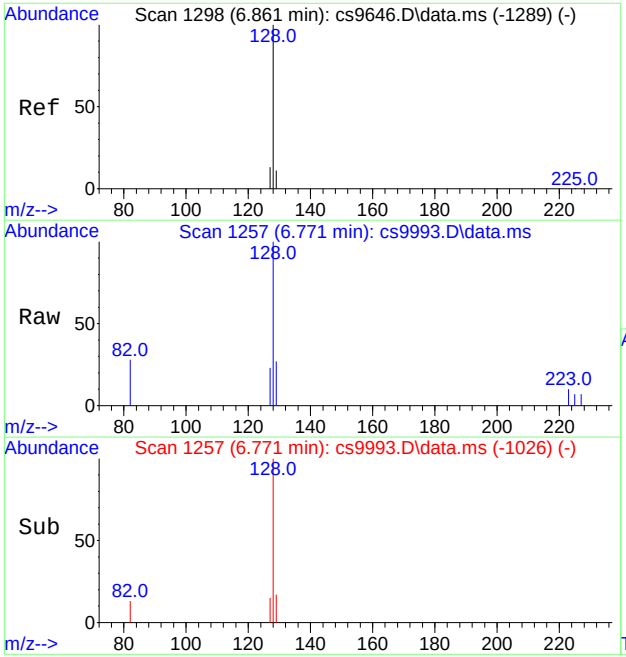
7.1.8
7

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\ecs503\
Data File : cs9993.D
Acq On : 25 Nov 2025 10:12 pm
Operator : alejanda
Sample : je23960-2 Inst : GCMS_CS
Misc : op69305a,ecs503,250,,,1,1
ALS Vial : 13 Sample Multiplier: 1

Quant Time: Nov 26 05:30:14 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\mcs491SIMLVI.M
Quant Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Wed Nov 26 04:40:28 2025
Response via : Initial Calibration

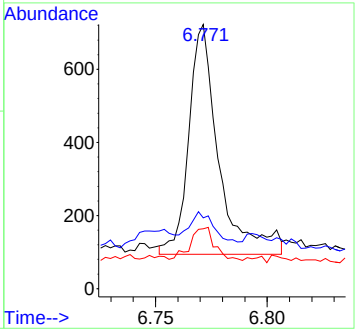


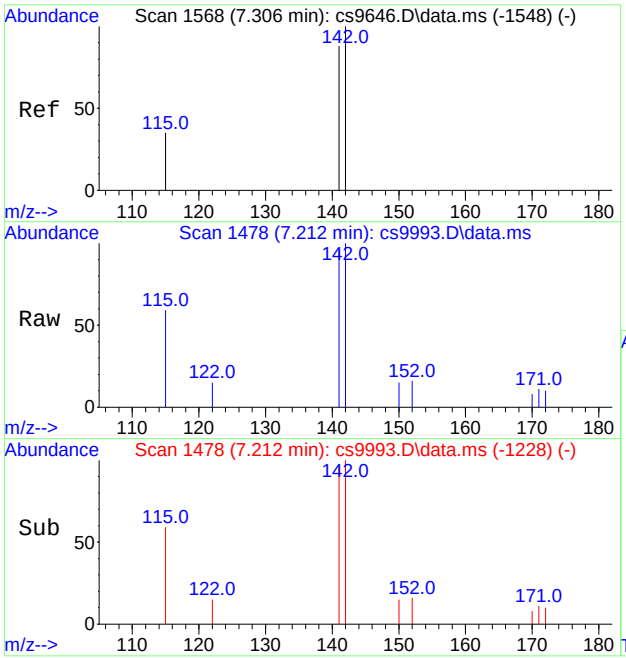


#7
Naphthalene
Concen: 2.7831 ppb m
RT: 6.771 min Scan# 1257
Delta R.T. 0.004 min
Lab File: cs9993.D
Acq: 25 Nov 2025 10:12 pm

Tgt Ion:128 Resp: 587

Ion	Ratio	Lower	Upper
128	100		
129	26.8	0.0	41.0
127	22.7	0.0	42.8

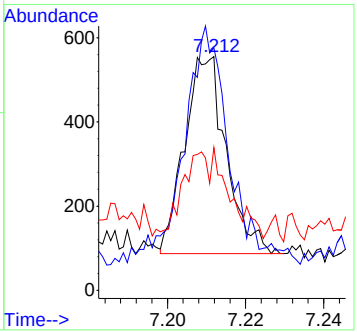


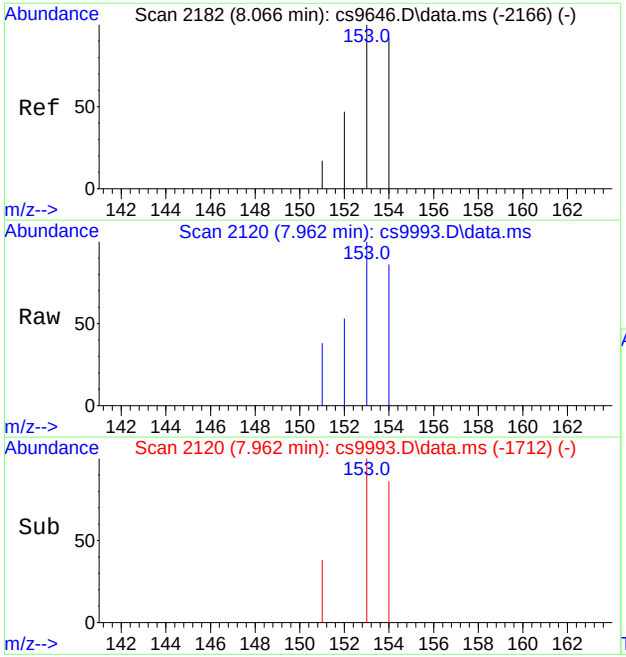


#9
2-Methylnaphthalene
Concen: 3.2486 ppb
RT: 7.212 min Scan# 1478
Delta R.T. 0.005 min
Lab File: cs9993.D
Acq: 25 Nov 2025 10:12 pm

Tgt Ion:141 Resp: 348

Ion	Ratio	Lower	Upper
141	100		
142	100.4	84.6	144.6
115	45.8	9.7	69.7

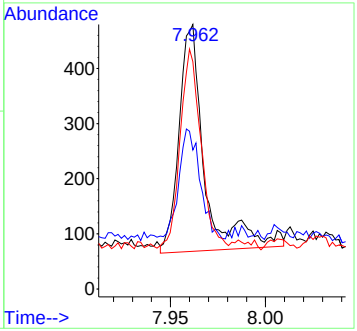


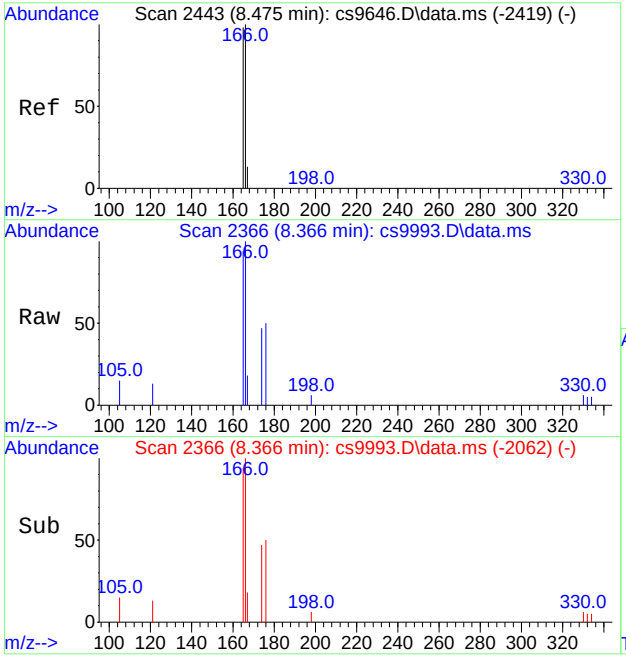


#14
Acenaphthene
Concen: 3.0737 ppb
RT: 7.962 min Scan# 2120
Delta R.T. 0.003 min
Lab File: cs9993.D
Acq: 25 Nov 2025 10:12 pm

Tgt Ion:153 Resp: 384

Ion	Ratio	Lower	Upper
153	100		
152	38.5	17.1	77.1
154	82.7	61.9	121.9

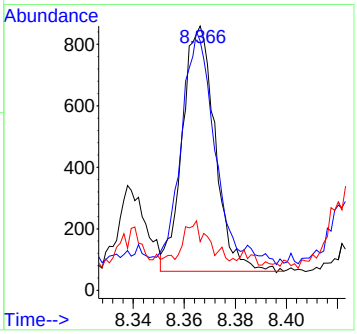


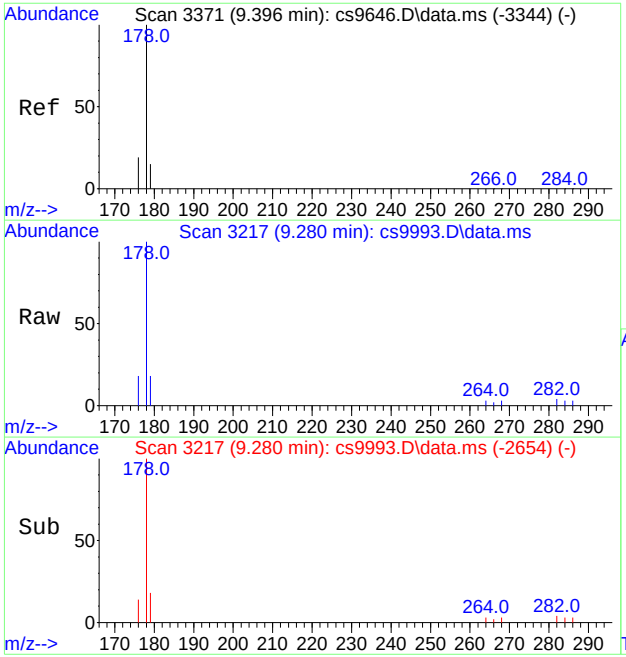


#15
Fluorene
Concen: 5.1992 ppb
RT: 8.366 min Scan# 2366
Delta R.T. 0.003 min
Lab File: cs9993.D
Acq: 25 Nov 2025 10:12 pm

Tgt Ion:166 Resp: 711

Ion	Ratio	Lower	Upper
166	100		
165	91.4	67.7	127.7
167	7.8	0.0	42.9

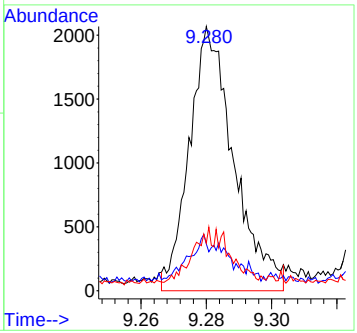


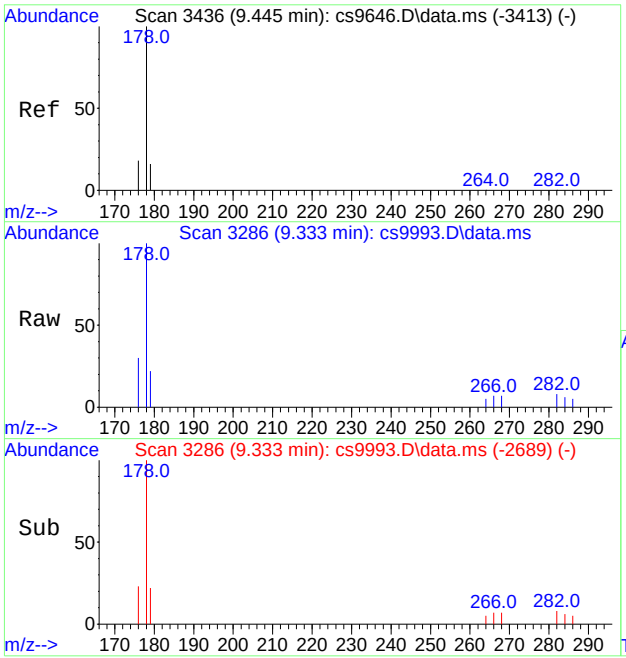


#21
Phenanthrene
Concen: 11.1242 ppb m
RT: 9.280 min Scan# 3217
Delta R.T. 0.004 min
Lab File: cs9993.D
Acq: 25 Nov 2025 10:12 pm

Tgt Ion:178 Resp: 1958

Ion	Ratio	Lower	Upper
178	100		
179	17.7	0.0	45.0
176	18.0	0.0	49.1

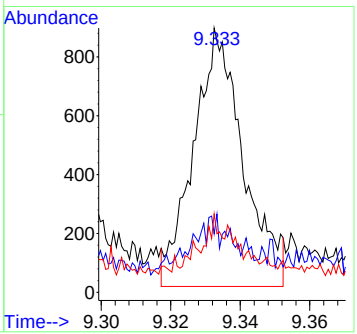


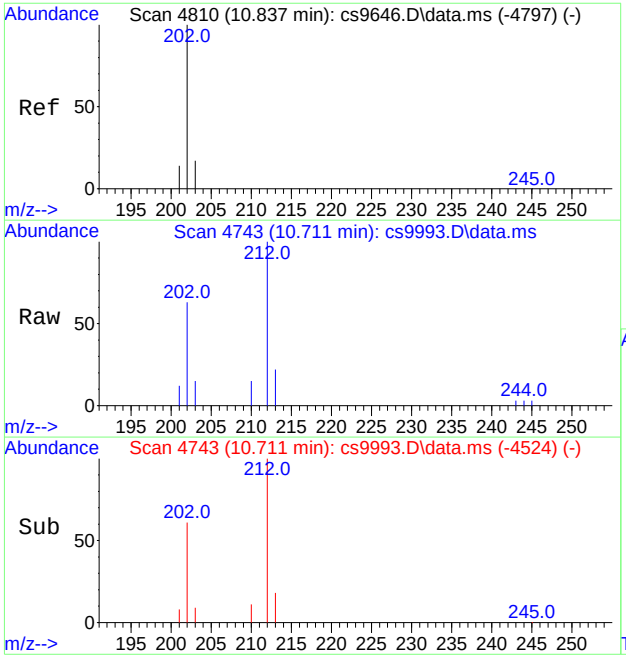


#22
Anthracene
Concen: 5.0935 ppb m
RT: 9.333 min Scan# 3286
Delta R.T. 0.007 min
Lab File: cs9993.D
Acq: 25 Nov 2025 10:12 pm

Tgt Ion:178 Resp: 871

Ion	Ratio	Lower	Upper
178	100		
179	22.1	0.0	45.5
176	29.7	0.0	47.9

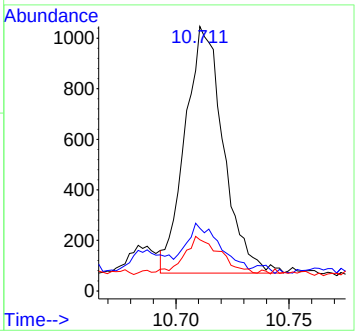


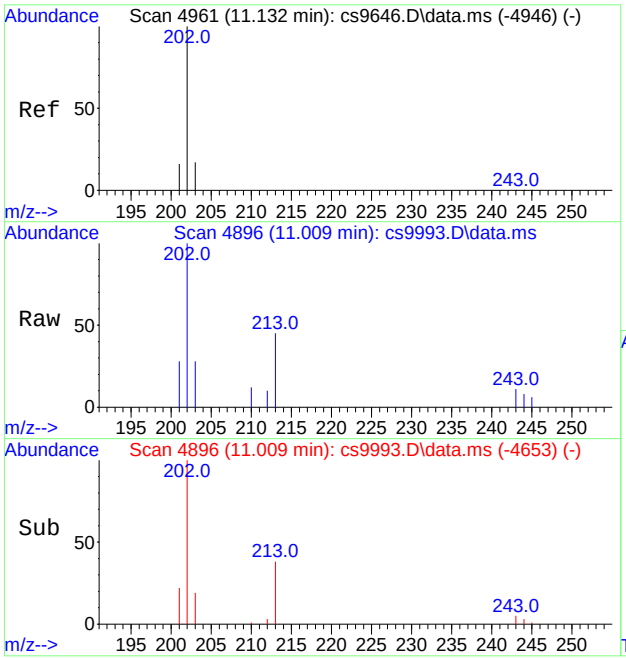


#23
Fluoranthene
Concen: 5.9858 ppb
RT: 10.711 min Scan# 4743
Delta R.T. -0.033 min
Lab File: cs9993.D
Acq: 25 Nov 2025 10:12 pm

Tgt Ion:202 Resp: 1151

Ion	Ratio	Lower	Upper
202	100		
203	15.0	0.0	46.7
201	13.1	0.0	43.9

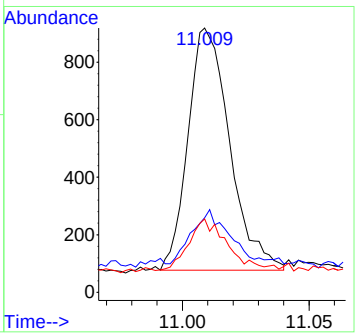


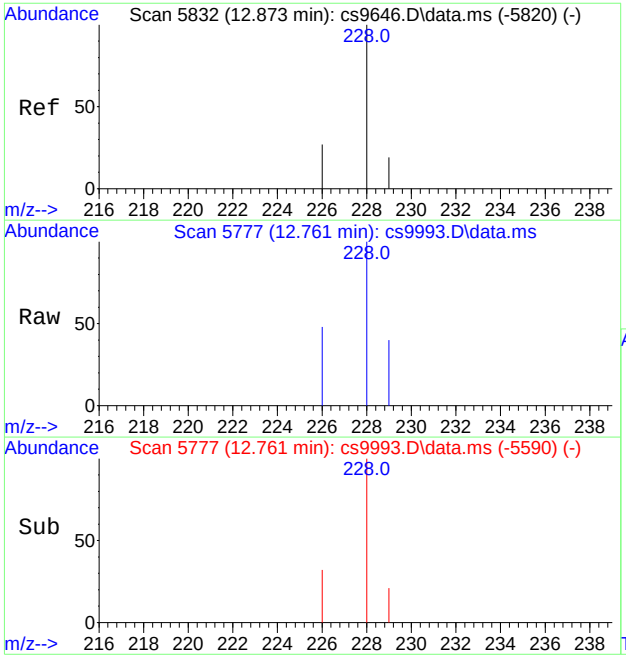


#24
Pyrene
Concen: 5.0526 ppb
RT: 11.009 min Scan# 4896
Delta R.T. -0.027 min
Lab File: cs9993.D
Acq: 25 Nov 2025 10:12 pm

Tgt Ion:202 Resp: 964

Ion	Ratio	Lower	Upper
202	100		
203	18.0	0.0	47.0
201	20.6	0.0	46.2

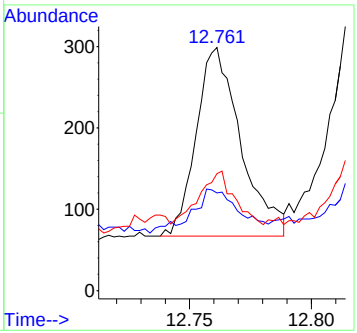


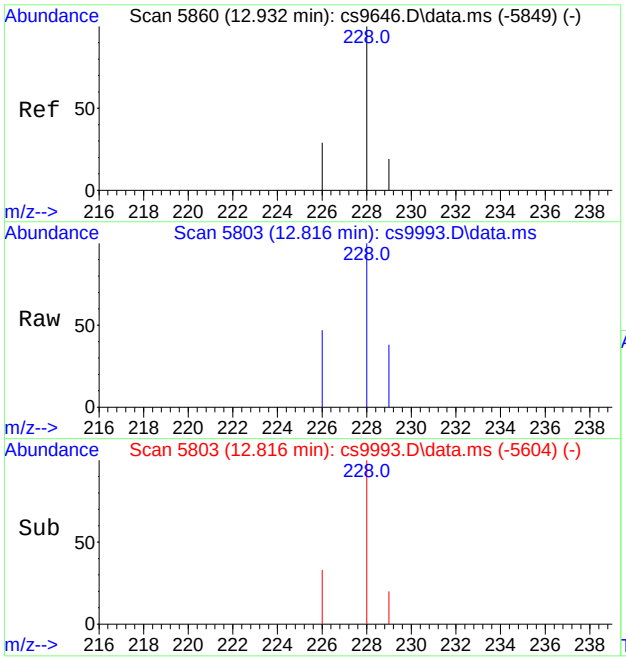


#26
Benzo[a]anthracene
Concen: 2.2547 ppb
RT: 12.761 min Scan# 5777
Delta R.T. -0.015 min
Lab File: cs9993.D
Acq: 25 Nov 2025 10:12 pm

Tgt Ion:228 Resp: 296

Ion	Ratio	Lower	Upper
228	100		
229	16.7	0.0	48.9
226	26.1	0.0	56.9

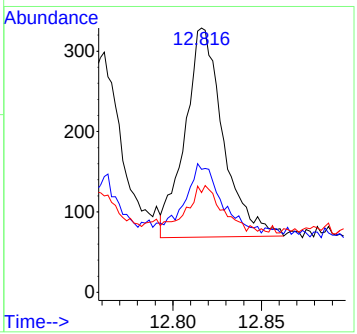




#27
Chrysene
Concen: 2.8348 ppb
RT: 12.816 min Scan# 5803
Delta R.T. -0.017 min
Lab File: cs9993.D
Acq: 25 Nov 2025 10:12 pm

Tgt Ion:228 Resp: 391

Ion	Ratio	Lower	Upper
228	100		
226	29.9	0.0	59.5
229	17.5	0.0	48.8



Manual Integrations APPROVED (compounds with "m" flag)
Jezreel Oblin
11/26/25 04:19

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\ecs503\
Data File : cs9984.D
Acq On : 25 Nov 2025 06:40 pm
Operator : alejanda
Sample : je23960-3 Inst : GCMS_CS
Misc : op69305a,ecs503,250,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 26 04:54:06 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\mcs491SIMLVI.M
Quant Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Wed Nov 26 04:40:28 2025
Response via : Initial Calibration

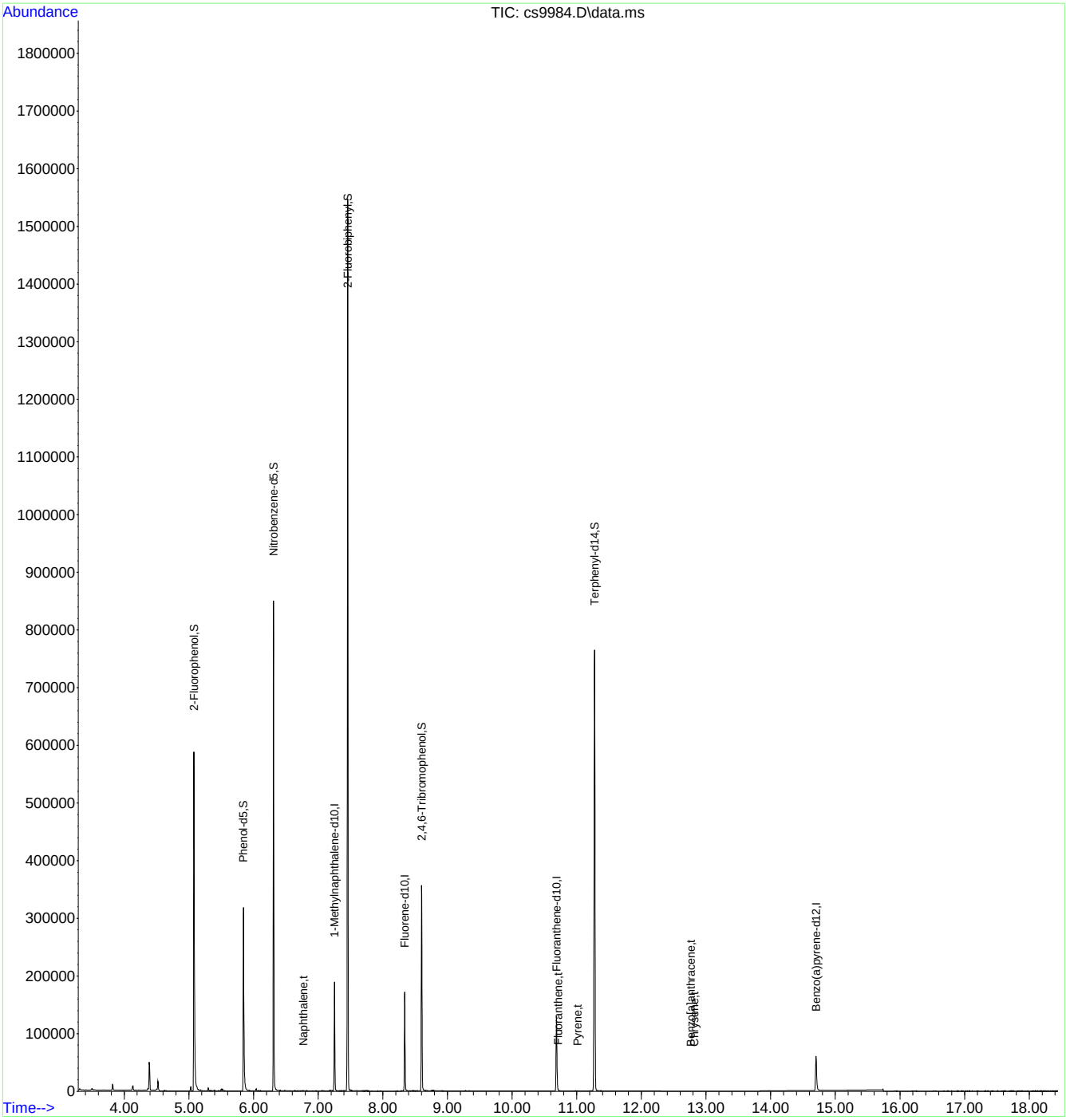
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.253	150	50173	800.00	ppb	0.00
11) Fluorene-d10	8.339	176	64814	800.00	ppb	0.00
18) Fluoranthene-d10	10.687	212	100652	800.00	ppb	-0.03
28) Benzo(a)pyrene-d12	14.700	264	53810	800.00	ppb	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.079	112	266573	4767.48	ppb	0.00
Spiked Amount 10000.000			Recovery =	47.67%		
4) Phenol-d5	5.844	99	243253	3559.15	ppb	0.00
Spiked Amount 10000.000			Recovery =	35.59%		
6) Nitrobenzene-d5	6.310	82	362167	6149.45	ppb	0.00
Spiked Amount 10000.000			Recovery =	61.49%		
12) 2-Fluorobiphenyl	7.457	172	645229	5648.39	ppb	0.00
Spiked Amount 10000.000			Recovery =	56.48%		
17) 2,4,6-Tribromophenol	8.601	330	112853	6937.36	ppb	0.00
Spiked Amount 10000.000			Recovery =	69.37%		
25) Terphenyl-d14	11.276	244	533800	7309.67	ppb	-0.03
Spiked Amount 10000.000			Recovery =	73.10%		
Target Compounds						Qvalue
7) Naphthalene	6.769	128	416m	2.1263	ppb	
23) Fluoranthene	10.713	202	309	1.5679	ppb	92
24) Pyrene	11.015	202	255	1.3041	ppb	87
26) Benzo[a]anthracene	12.765	228	108	0.8027	ppb	92
27) Chrysene	12.820	228	143	1.0116	ppb	80

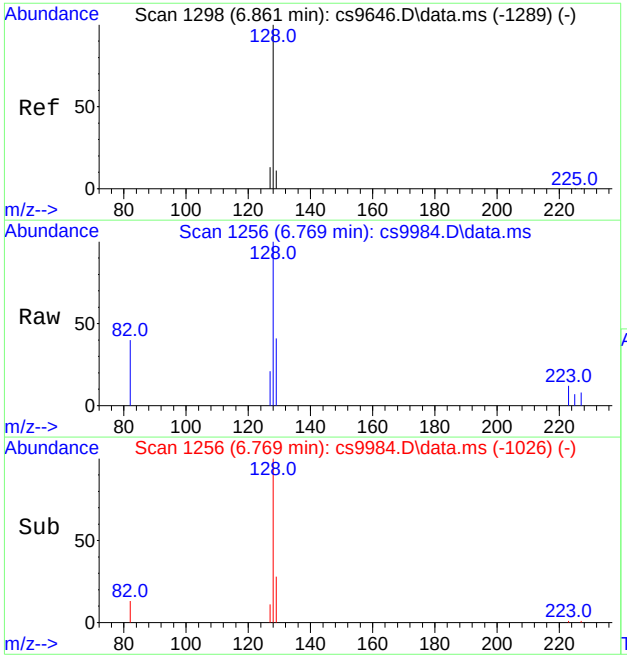
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\ecs503\
Data File : cs9984.D
Acq On : 25 Nov 2025 06:40 pm
Operator : alejanda
Sample : je23960-3 Inst : GCMS_CS
Misc : op69305a,ecs503,250,,,1,1
ALS Vial : 4 Sample Multiplier: 1

Quant Time: Nov 26 04:54:06 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\mcs491SIMLVI.M
Quant Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Wed Nov 26 04:40:28 2025
Response via : Initial Calibration

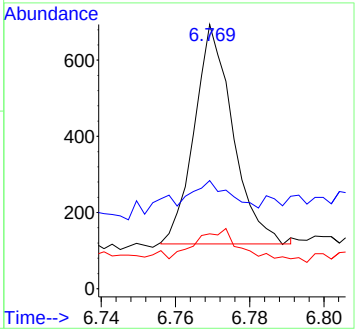


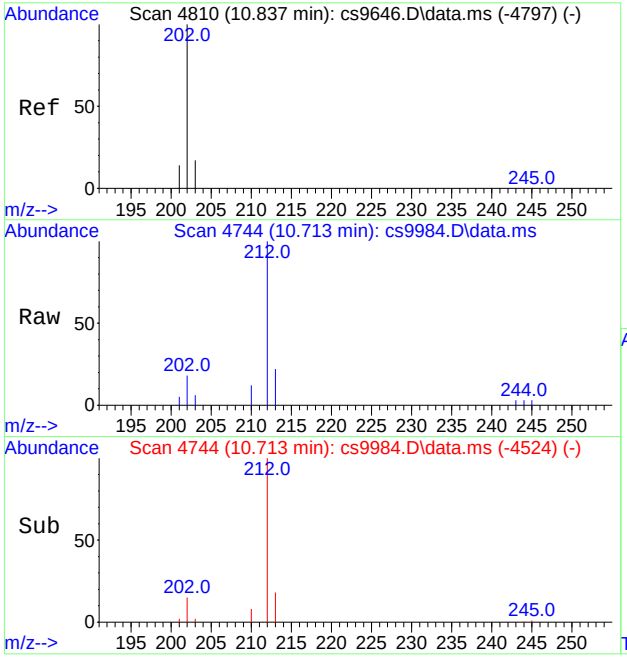


#7
Naphthalene
Concen: 2.1263 ppb m
RT: 6.769 min Scan# 1256
Delta R.T. 0.002 min
Lab File: cs9984.D
Acq: 25 Nov 2025 06:40 pm

Tgt Ion:128 Resp: 416

Ion	Ratio	Lower	Upper
128	100		
129	40.9	0.0	41.0
127	20.7	0.0	42.8

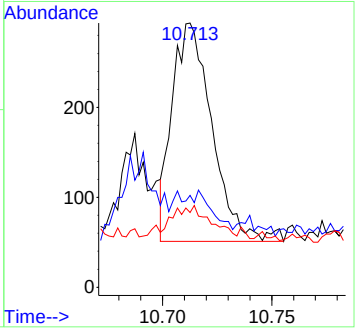


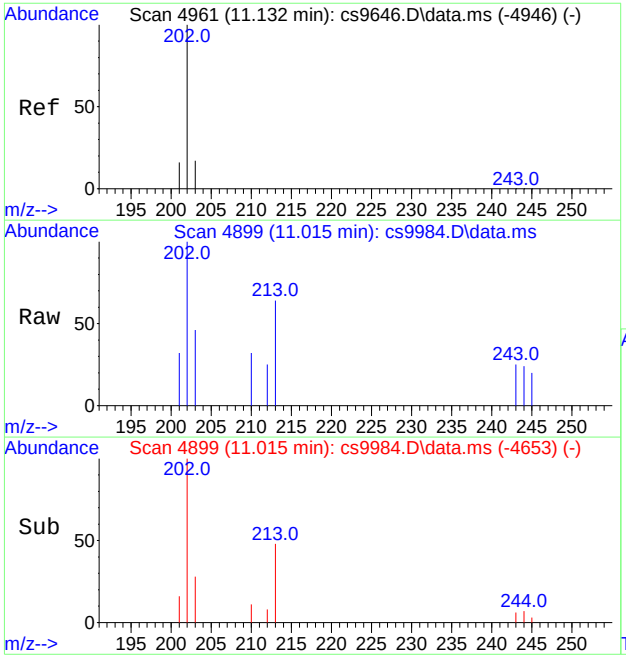


#23
Fluoranthene
Concen: 1.5679 ppb
RT: 10.713 min Scan# 4744
Delta R.T. -0.031 min
Lab File: cs9984.D
Acq: 25 Nov 2025 06:40 pm

Tgt Ion:202 Resp: 309

Ion	Ratio	Lower	Upper
202	100		
203	11.5	0.0	46.7
201	12.5	0.0	43.9

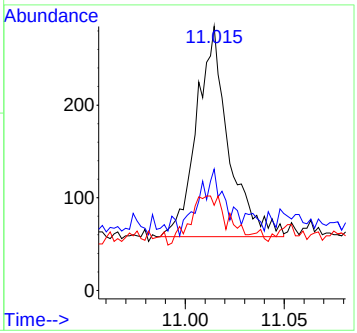


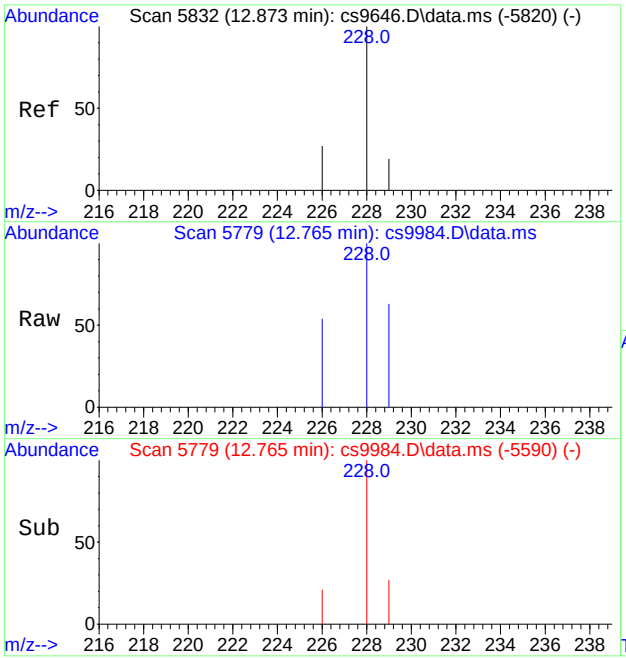


#24
Pyrene
Concen: 1.3041 ppb
RT: 11.015 min Scan# 4899
Delta R.T. -0.021 min
Lab File: cs9984.D
Acq: 25 Nov 2025 06:40 pm

Tgt Ion:202 Resp: 255

Ion	Ratio	Lower	Upper
202	100		
203	24.8	0.0	47.0
201	13.1	0.0	46.2

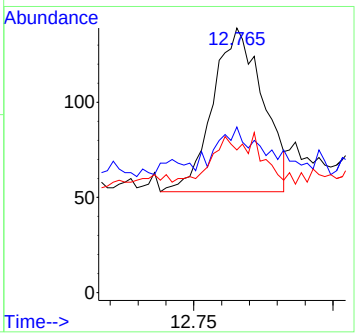


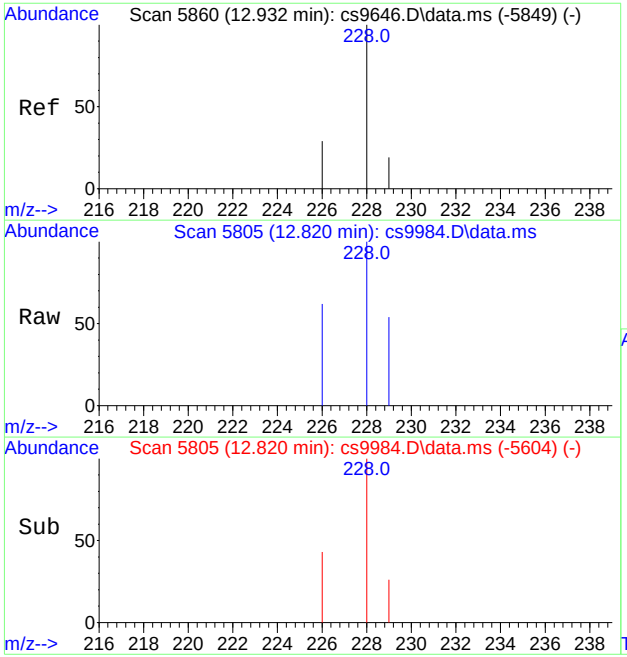


#26
Benzo[a]anthracene
Concen: 0.8027 ppb
RT: 12.765 min Scan# 5779
Delta R.T. -0.011 min
Lab File: cs9984.D
Acq: 25 Nov 2025 06:40 pm

Tgt Ion:228 Resp: 108

Ion	Ratio	Lower	Upper
228	100		
229	20.5	0.0	48.9
226	21.2	0.0	56.9

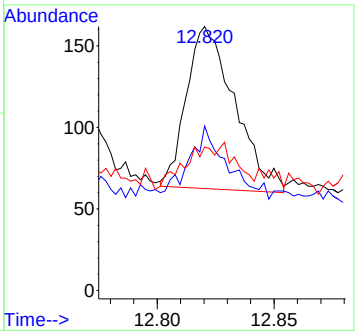




#27
Chrysene
Concen: 1.0116 ppb
RT: 12.820 min Scan# 5805
Delta R.T. -0.013 min
Lab File: cs9984.D
Acq: 25 Nov 2025 06:40 pm

Tgt Ion:228 Resp: 143

Ion	Ratio	Lower	Upper
228	100		
226	42.0	0.0	59.5
229	25.4	0.0	48.8



7.1.9
7

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1 Inst : GCMS5P
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 26 03:24:16 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Nov 25 13:26:57 2025
Response via : Initial Calibration

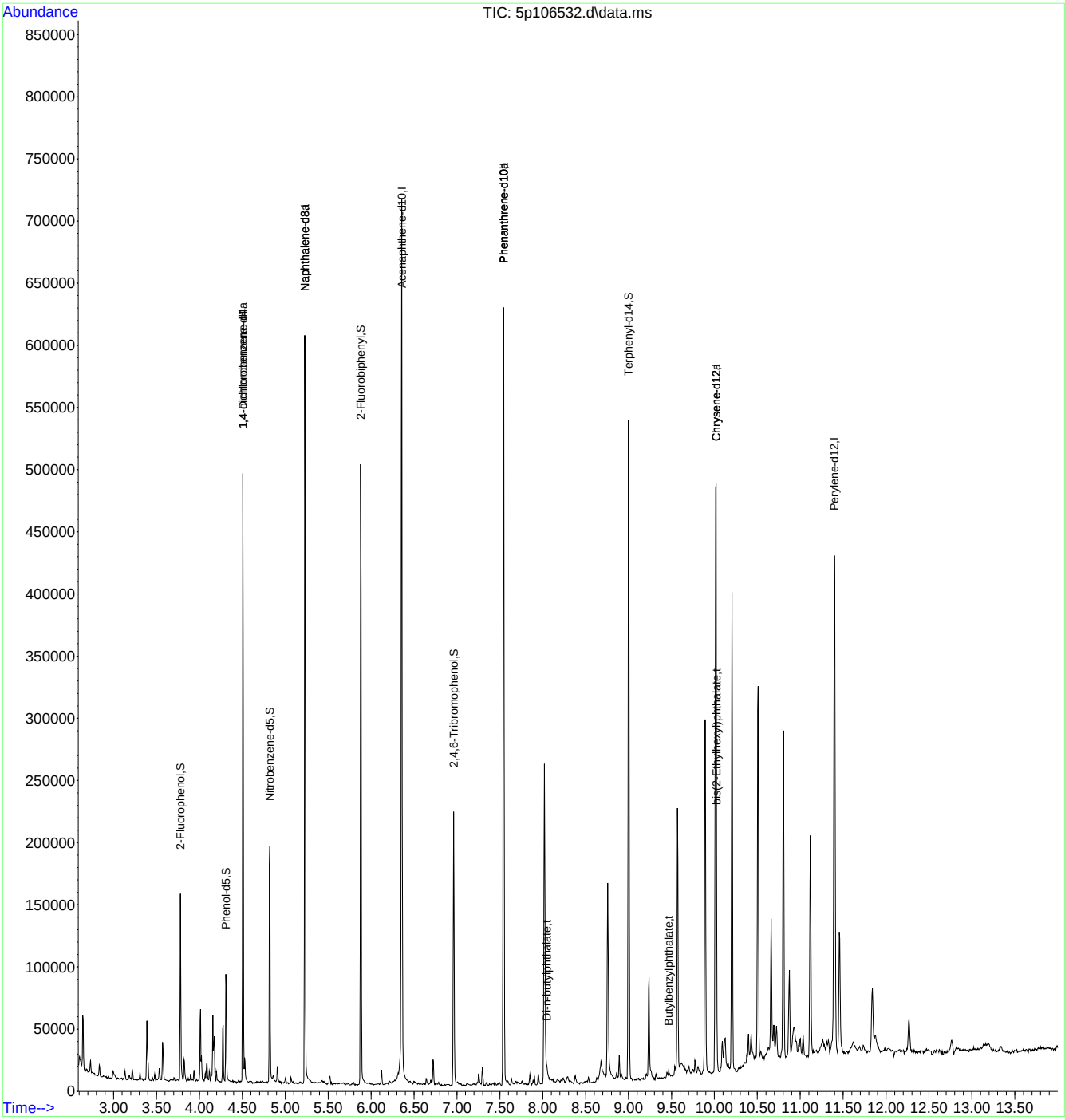
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1,4-dichlorobenzene-d4	4.505	152	55248	8.00	ppm	0.00
24) Naphthalene-d8	5.226	136	210180	8.00	ppm	0.00
46) Acenaphthene-d10	6.359	164	118838	8.00	ppm	0.00
69) Phenanthrene-d10	7.545	188	205435	8.00	ppm	0.00
84) Chrysene-d12	10.018	240	167938	8.00	ppm	0.00
93) Perylene-d12	11.397	264	168452	8.00	ppm	0.00
103) 1,4-Dichlorobenzene-d4a	4.505	152	55248	8.00	ppm	-0.03
105) Phenanthrene-d10a	7.545	188	205435	8.00	ppm	-0.04
107) Naphthalene-d8a	5.226	136	210180	8.00	ppm	-0.03
109) Chrysene-d12a	10.018	240	167938	8.00	ppm	-0.04
111) Phenanthrene-d10b	7.545	188	205435	8.00	ppm	-0.04
System Monitoring Compounds						
5) 2-Fluorophenol	3.779	112	29332	3.58	ppm	0.00
Spiked Amount 10.000			Recovery = 35.80%			
8) Phenol-d5	4.308	99	24728	2.50	ppm	0.00
Spiked Amount 10.000			Recovery = 25.00%			
25) Nitrobenzene-d5	4.820	82	49804	6.10	ppm	0.00
Spiked Amount 10.000			Recovery = 61.00%			
51) 2-Fluorobiphenyl	5.878	172	128569	6.59	ppm	0.00
Spiked Amount 10.000			Recovery = 65.90%			
74) 2,4,6-Tribromophenol	6.963	330	24833	7.22	ppm	0.00
Spiked Amount 10.000			Recovery = 72.20%			
87) Terphenyl-d14	8.998	244	167164	7.31	ppm	0.00
Spiked Amount 10.000			Recovery = 73.10%			
112) 1-chlorooctadecane	0.000	57	0d	0.00	ppm	
Spiked Amount 10.000			Recovery = 0.00%			
113) o-terphenyl	0.000	230	0	0.00	ppm	
Spiked Amount 10.000			Recovery = 0.00%			
Target Compounds						Qvalue
81) Di-n-butylphthalate	8.047	149	1808	0.0588	ppm	94
88) Butylbenzylphthalate	9.468	149	1201	0.1006	ppm	93
92) bis(2-Ethylhexyl)phtha...	10.024	149	1495	0.0930	ppm	94

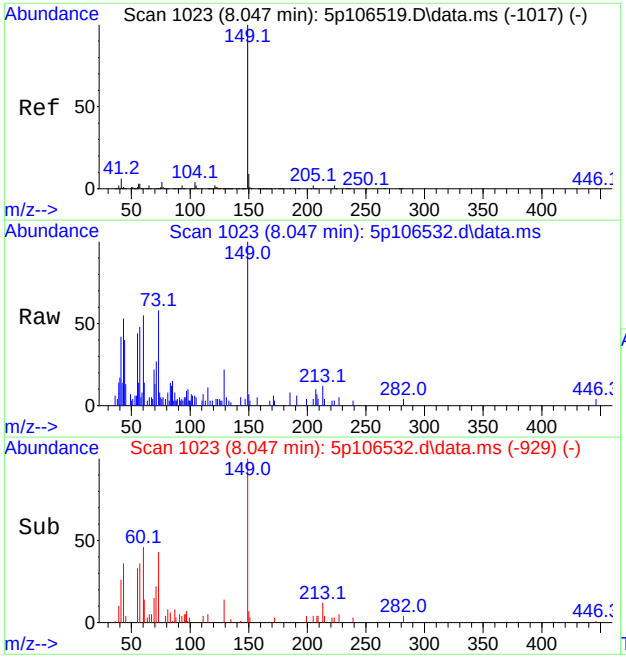
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT/LSC Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1 Inst : GCMS5P
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Time: Nov 26 03:24:16 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um
QLast Update : Tue Nov 25 13:26:57 2025
Response via : Initial Calibration

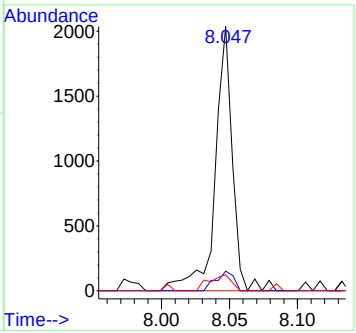


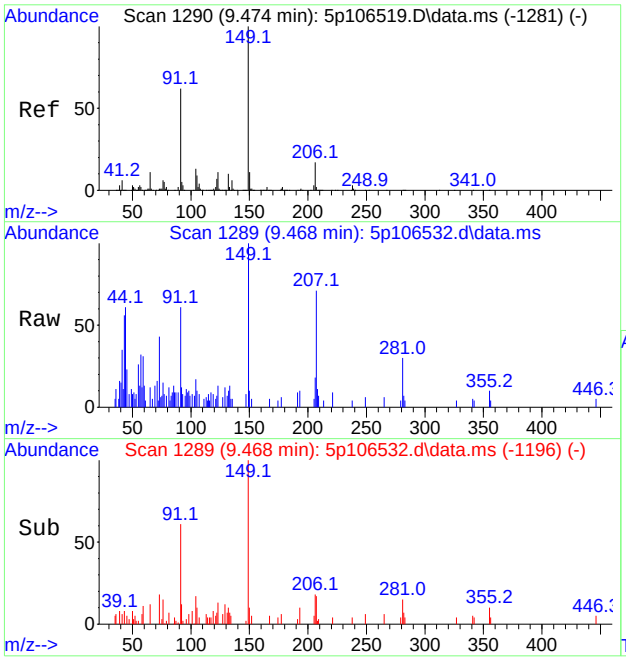


#81
Di-n-butylphthalate
Concen: 0.0588 ppm
RT: 8.047 min Scan# 1023
Delta R.T. 0.000 min
Lab File: 5p106532.d
Acq: 25 Nov 2025 6:06 pm

Tgt Ion:149 Resp: 1808

Ion	Ratio	Lower	Upper
149	100		
150	7.4	0.0	39.4
104	6.0	0.0	33.8

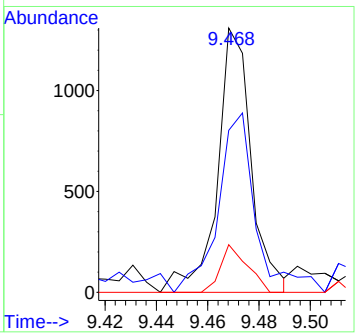




#88
Butylbenzylphthalate
Concen: 0.1006 ppm
RT: 9.468 min Scan# 1289
Delta R.T. -0.006 min
Lab File: 5p106532.d
Acq: 25 Nov 2025 6:06 pm

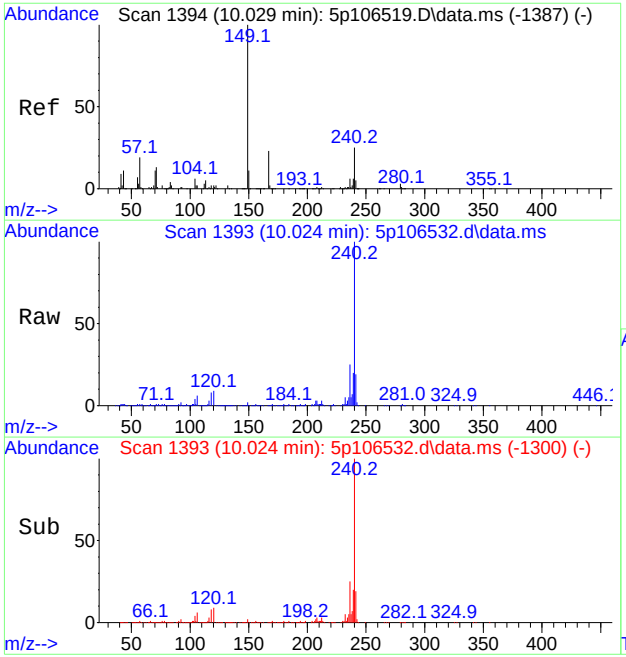
Tgt Ion:149 Resp: 1201

Ion	Ratio	Lower	Upper
149	100		
91	55.4	31.7	91.7
206	18.6	0.0	46.8



7.2.1

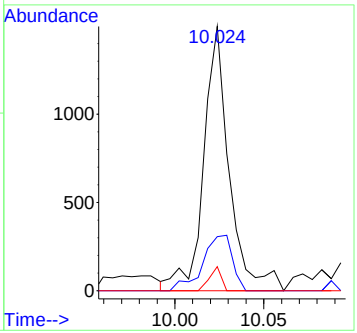
7



#92
bis(2-Ethylhexyl)phthalate
Concen: 0.0930 ppm
RT: 10.024 min Scan# 1393
Delta R.T. -0.005 min
Lab File: 5p106532.d
Acq: 25 Nov 2025 6:06 pm

Tgt Ion:149 Resp: 1495

Ion	Ratio	Lower	Upper
149	100		
167	20.8	0.0	53.0
279	9.3	0.0	33.1



7.2.1

7

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

Signal : TIC: 5p106532.d\data.ms

peak #	R.T. min	first scan	max scan	last scan	PK TY	peak height	corr. area	corr. % max.	% of total
1	2.603	3	4	9	rVB3	6700	5744	1.00%	0.073%
2	2.641	9	11	18	rVB	44282	36314	6.30%	0.464%
3	2.732	23	28	31	rVB	10131	7511	1.30%	0.096%
4	2.833	44	47	53	rVB	9594	8265	1.43%	0.106%
5	2.993	72	77	85	rVB8	6694	10742	1.86%	0.137%
6	3.132	98	103	109	rBV	6959	6109	1.06%	0.078%
7	3.218	117	119	123	rVB2	8445	5919	1.03%	0.076%
8	3.309	130	136	143	rVB3	6633	6477	1.12%	0.083%
9	3.389	148	151	160	rVB3	48156	43674	7.57%	0.558%
10	3.533	173	178	182	rBV	9164	6748	1.17%	0.086%
11	3.570	182	185	199	rVB2	31414	30995	5.37%	0.396%
12	3.779	221	224	230	rBV	150507	96757	16.78%	1.237%
13	3.821	230	232	238	rVB	17507	16209	2.81%	0.207%
14	3.939	249	254	257	rVB	8808	6851	1.19%	0.088%
15	4.014	261	268	274	rBV2	57723	52563	9.11%	0.672%
16	4.089	274	282	285	rBV3	14074	16321	2.83%	0.209%
17	4.158	290	295	301	rBV2	52570	57329	9.94%	0.733%
18	4.195	301	302	313	rVB	8943	7437	1.29%	0.095%
19	4.276	313	317	321	rBV	45735	34226	5.93%	0.438%
20	4.308	321	323	334	rVB	86531	67563	11.72%	0.864%
21	4.505	354	360	373	rVB	489622	315458	54.70%	4.033%
22	4.820	412	419	424	rBV	190584	146905	25.47%	1.878%
23	4.906	432	435	440	rVB	12655	10221	1.77%	0.131%
24	5.066	460	465	473	rBV10	5153	6414	1.11%	0.082%
25	5.226	491	495	514	rBV	601732	412503	71.53%	5.274%
26	5.429	528	533	544	rVB	3318	8415	1.46%	0.108%
27	5.520	544	550	555	rVB5	6565	7429	1.29%	0.095%
28	5.878	610	617	631	rBV	499592	362709	62.89%	4.637%
29	6.124	658	663	667	rVB	11939	8845	1.53%	0.113%
30	6.359	684	707	722	rVV	711287	576719	100.00%	7.373%
31	6.722	771	775	780	rVB	19885	16738	2.90%	0.214%
32	6.963	813	820	827	rBV	220596	177717	30.82%	2.272%
33	7.257	869	875	880	rBV4	8845	11372	1.97%	0.145%
34	7.299	880	883	888	rVB	14530	11501	1.99%	0.147%
35	7.545	924	929	936	rBV	626025	506454	87.82%	6.475%
36	7.850	981	986	990	rVB2	8403	7750	1.34%	0.099%
37	7.903	990	996	1001	rVB2	7106	8050	1.40%	0.103%
38	7.946	1001	1004	1010	rBV6	9092	9199	1.60%	0.118%
39	8.020	1010	1018	1034	rBV	257387	246579	42.76%	3.152%
40	8.288	1063	1068	1072	rBV3	4221	6196	1.07%	0.079%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

41	8.378	1081	1085	1095	rVB3	6632	9916	1.72%	0.127%
42	8.629	1126	1132	1135	rBV7	4204	5950	1.03%	0.076%
43	8.678	1135	1141	1150	rBV8	14820	34069	5.91%	0.436%
44	8.758	1152	1156	1171	rVB	157010	144341	25.03%	1.845%
45	8.891	1178	1181	1184	rBV	17675	12358	2.14%	0.158%
46	8.913	1184	1185	1193	rVB	4995	5765	1.00%	0.074%
47	8.998	1193	1201	1210	rVB	530894	449670	77.97%	5.749%
48	9.239	1242	1246	1257	rVB	81979	85501	14.83%	1.093%
49	9.447	1281	1285	1288	rBV5	4572	5664	0.98%	0.072%
50	9.538	1296	1302	1304	rBV4	7993	7942	1.38%	0.102%
51	9.570	1304	1308	1313	rVV	211932	179829	31.18%	2.299%
52	9.618	1313	1317	1328	rVB5	7680	22059	3.82%	0.282%
53	9.703	1328	1333	1337	rVB8	5533	6452	1.12%	0.082%
54	9.773	1344	1346	1350	rVB	9912	7401	1.28%	0.095%
55	9.810	1350	1353	1361	rVB6	6083	9226	1.60%	0.118%
56	9.890	1361	1368	1382	rBV	284996	277010	48.03%	3.541%
57	10.018	1382	1392	1399	rBV	472736	464980	80.63%	5.945%
58	10.093	1399	1406	1408	rBV	24659	28849	5.00%	0.369%
59	10.125	1408	1412	1416	rVV2	23376	30786	5.34%	0.394%
60	10.205	1422	1427	1436	rVB	385189	312879	54.25%	4.000%
61	10.302	1436	1445	1447	rBV10	4363	7668	1.33%	0.098%
62	10.355	1447	1455	1456	rBV8	4466	7540	1.31%	0.096%
63	10.398	1456	1463	1465	rVV2	25222	30458	5.28%	0.389%
64	10.430	1465	1469	1475	rVV2	24788	39732	6.89%	0.508%
65	10.510	1477	1484	1488	rVV	304196	289827	50.25%	3.705%
66	10.542	1488	1490	1495	rVV6	10216	15825	2.74%	0.202%
67	10.627	1495	1506	1508	rVV10	13173	36214	6.28%	0.463%
68	10.660	1508	1512	1516	rVV	116117	121002	20.98%	1.547%
69	10.692	1516	1518	1521	rVV	30551	33113	5.74%	0.423%
70	10.724	1521	1524	1529	rVV	29406	38935	6.75%	0.498%
71	10.804	1532	1539	1544	rVV	266693	247608	42.93%	3.166%
72	10.873	1545	1552	1555	rVV	73779	80605	13.98%	1.031%
73	10.927	1556	1562	1570	rVV7	26943	80416	13.94%	1.028%
74	11.001	1570	1576	1579	rVV3	17789	32955	5.71%	0.421%
75	11.034	1579	1582	1589	rVV	20178	27122	4.70%	0.347%
76	11.119	1593	1598	1606	rVV	180227	190040	32.95%	2.430%
77	11.188	1606	1611	1614	rVV6	7371	15836	2.75%	0.202%
78	11.263	1614	1625	1630	rVV9	15033	49780	8.63%	0.636%
79	11.306	1630	1633	1635	rVV4	13744	17654	3.06%	0.226%
80	11.327	1635	1637	1640	rVV2	14343	16668	2.89%	0.213%
81	11.397	1640	1650	1657	rVV	403782	485888	84.25%	6.212%
82	11.456	1657	1661	1670	rVV	100425	129228	22.41%	1.652%
83	11.541	1674	1677	1680	rVV5	4124	6628	1.15%	0.085%
84	11.616	1680	1691	1700	rVV5	11112	44039	7.64%	0.563%
85	11.691	1700	1705	1710	rVV8	7030	15724	2.73%	0.201%

LSC Area Percent Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Integration Parameters: lscint.p
Integrator: RTE
Smoothing : ON Filtering: 5
Sampling : 1 Min Area: 100 Area counts
Start Thrs: 0.01 Max Peaks: 100
Stop Thrs : 0 Peak Location: TOP

If leading or trailing edge < 100 prefer < Baseline drop else tangent >
Peak separation: 7

Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

86	11.733	1710	1713	1722	rVV7	7494	17110	2.97%	0.219%
87	11.840	1727	1733	1737	rVV	52741	78852	13.67%	1.008%
88	11.872	1737	1739	1750	rVV10	14902	32914	5.71%	0.421%
89	11.995	1756	1762	1764	rVV7	4112	6653	1.15%	0.085%
90	12.033	1764	1769	1774	rVV9	3405	8832	1.53%	0.113%
91	12.081	1775	1778	1780	rVB4	5367	5720	0.99%	0.073%
92	12.113	1780	1784	1786	rBV5	4347	6574	1.14%	0.084%
93	12.268	1802	1813	1819	rBV	27582	45390	7.87%	0.580%
94	12.492	1853	1855	1863	rVB9	4059	8629	1.50%	0.110%
95	12.764	1894	1906	1911	rVB6	10915	23657	4.10%	0.302%
96	12.818	1911	1916	1919	rBV6	5061	9097	1.58%	0.116%
97	13.144	1972	1977	1978	rVV4	4471	6189	1.07%	0.079%
98	13.192	1982	1986	1995	rVB4	6607	15915	2.76%	0.203%
99	13.341	2005	2014	2018	rBV10	4165	8120	1.41%	0.104%
100	13.876	2111	2114	2123	rVB7	3149	6187	1.07%	0.079%

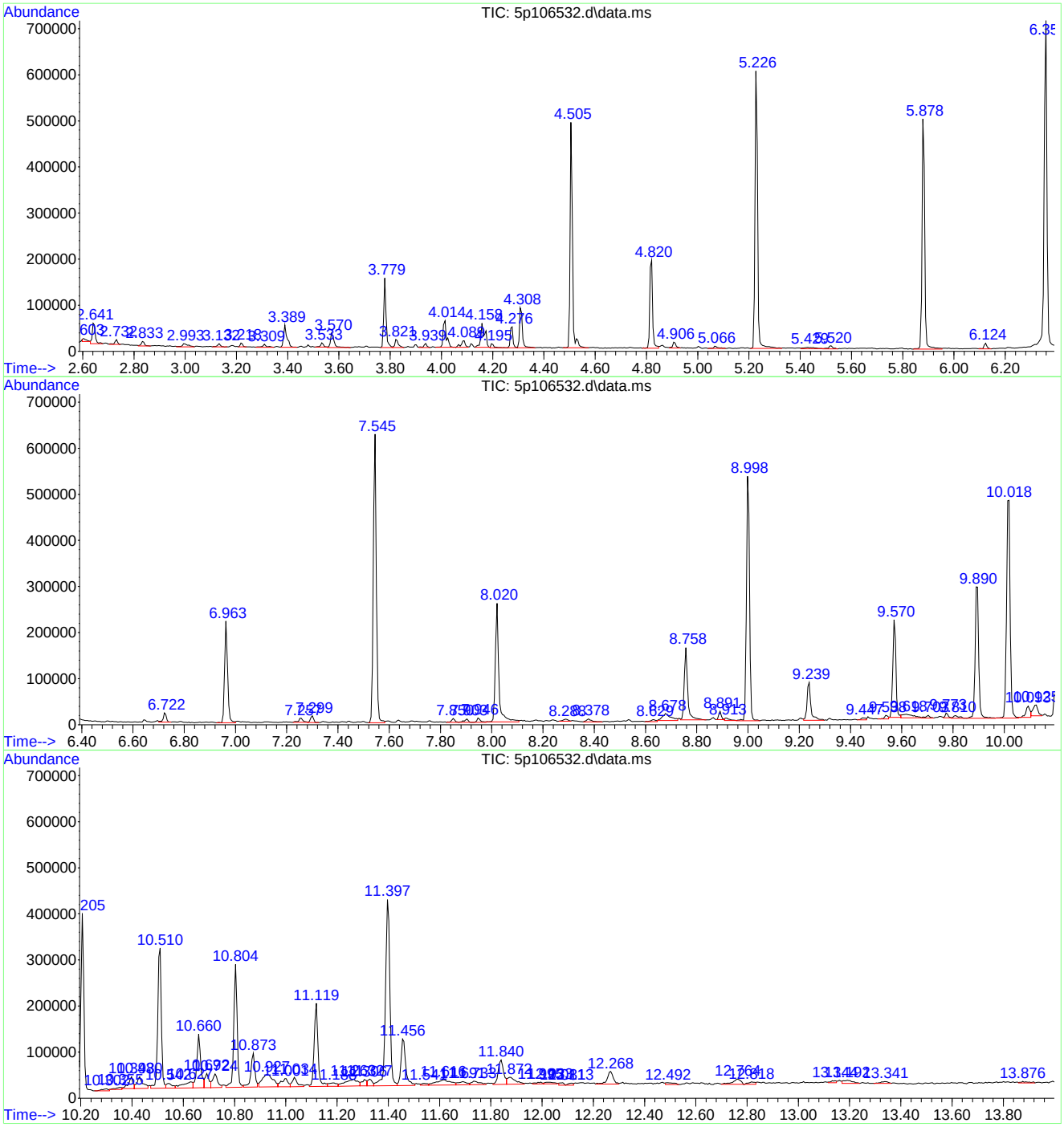
Sum of corrected areas: 7821919

LSC Report - Integrated Chromatogram

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p



Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

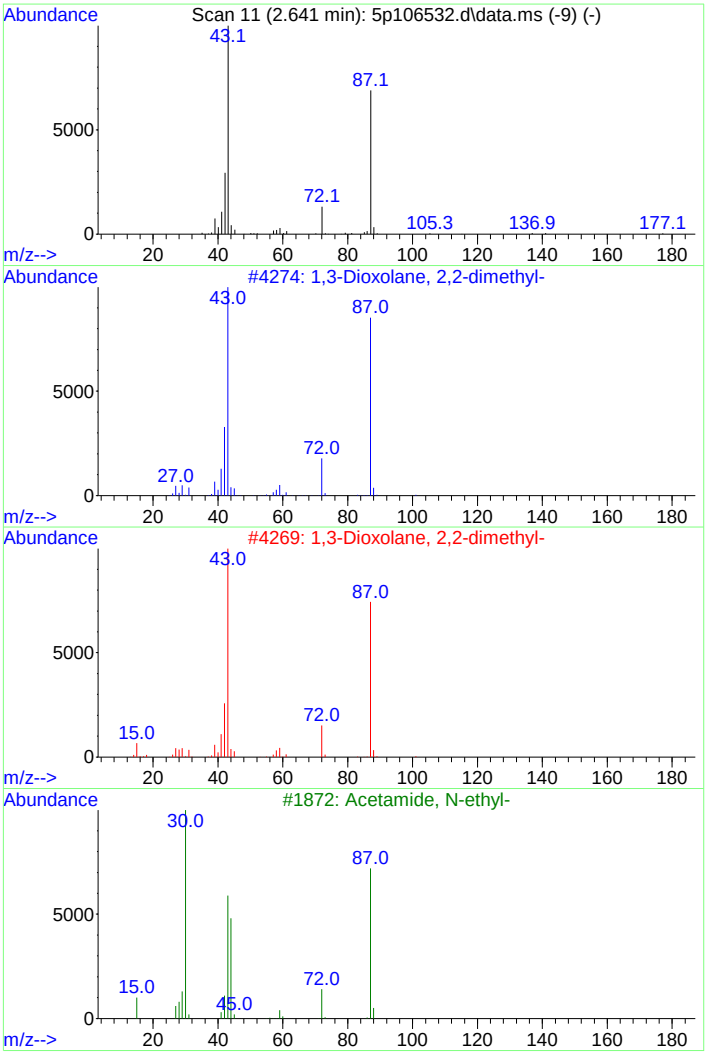
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

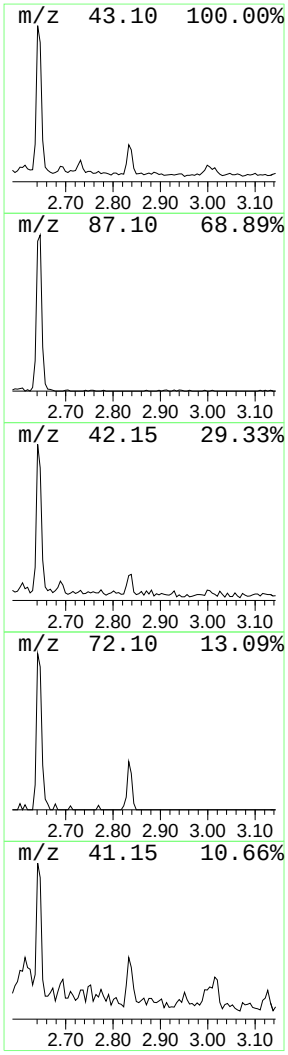
****

Peak Number 1 Unknown Concentration Rank 14

R.T.	EstConc	Area	Relative to ISTD	R.T.
2.641	0.92 ppm	36314	1,4-Dichlorobenzene-d4a	4.505

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	1,3-Dioxolane, 2,2-dimethyl-	102	C5H10O2	002916-31-6	59
2	1,3-Dioxolane, 2,2-dimethyl-	102	C5H10O2	002916-31-6	50
3	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	40
4	Acetamide, N-ethyl-	87	C4H9NO	000625-50-3	40
5	2-Propanone, O-methyloxime	87	C4H9NO	003376-35-0	38





M5P5038LVI.M Wed Nov 26 10:19:28 2025 Page: 5

Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

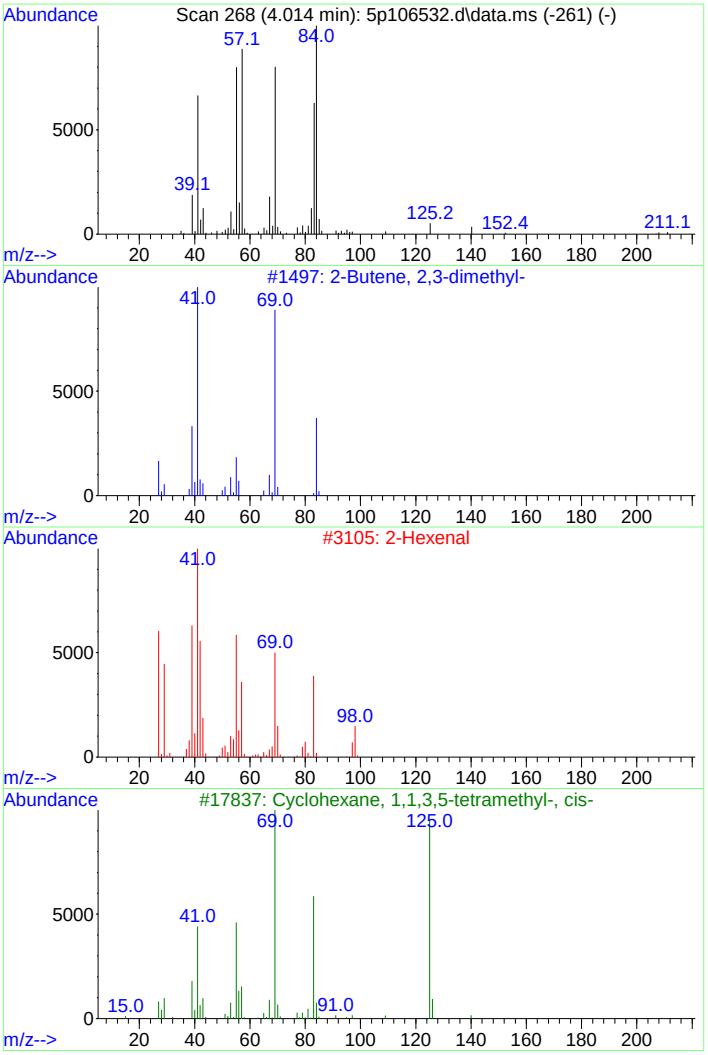
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

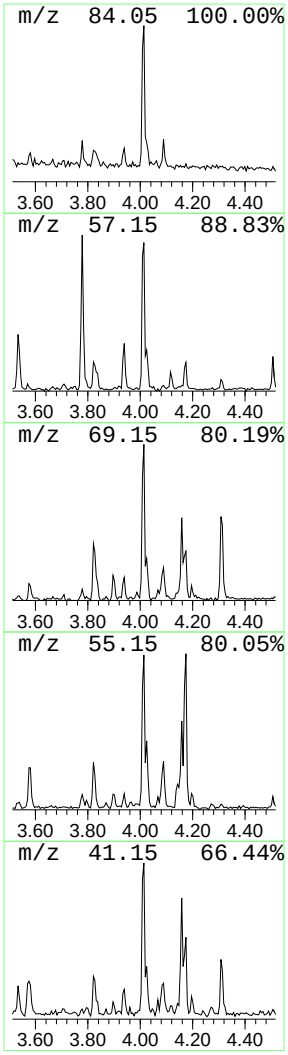
****

Peak Number 2 Unknown Concentration Rank 13

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.014	1.01 ppm	39652	1,4-Dichlorobenzene-d4a	4.505

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2-Butene, 2,3-dimethyl-	84	C6H12	000563-79-1	50
2	2-Hexenal	98	C6H10O	000505-57-7	43
3	Cyclohexane, 1,1,3,5-tetramethyl...	140	C10H20	050876-32-9	43
4	2-Butenal, 3-methyl-	84	C5H8O	000107-86-8	43
5	Furan, 2,3-dihydro-4-methyl-	84	C5H8O	034314-83-5	38





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

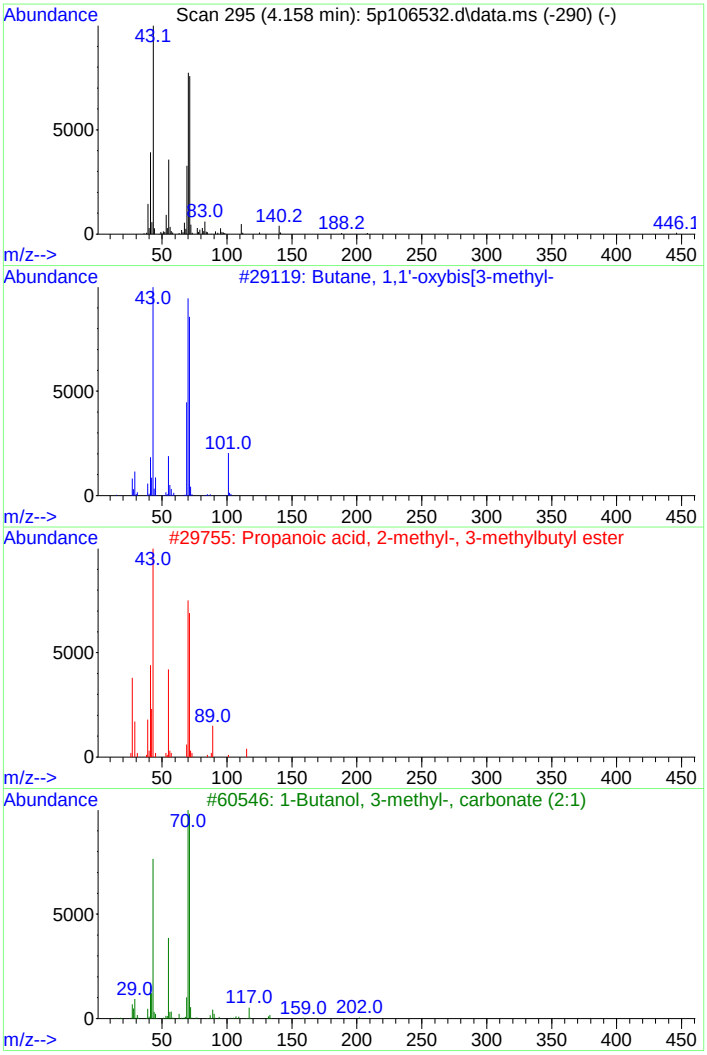
TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

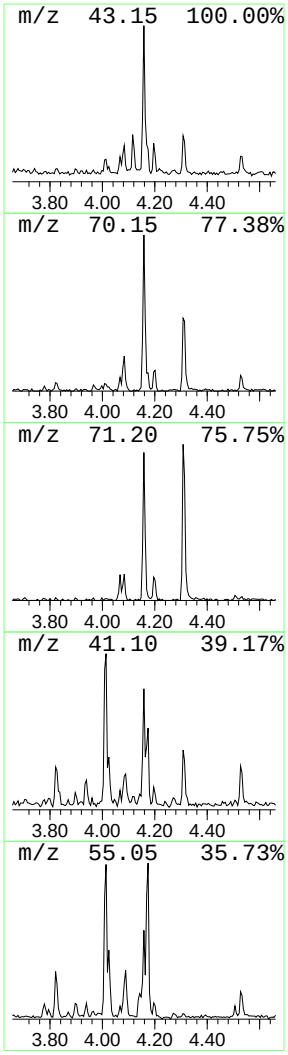
****

Peak Number 3 Unknown Concentration Rank 15

R.T.	EstConc	Area	Relative to ISTD	R.T.
4.158	0.84 ppm	33113	1,4-Dichlorobenzene-d4a	4.505

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Butane, 1,1'-oxybis[3-methyl-	158	C10H22O	000544-01-4	72
2	Propanoic acid, 2-methyl-, 3-met...	158	C9H18O2	002050-01-3	72
3	1-Butanol, 3-methyl-, carbonate ...	202	C11H22O3	002050-95-5	56
4	Pyrrolidine	71	C4H9N	000123-75-1	56
5	3,4-Diethyl hexane	142	C10H22	019398-77-7	56





Library Search Compound Report

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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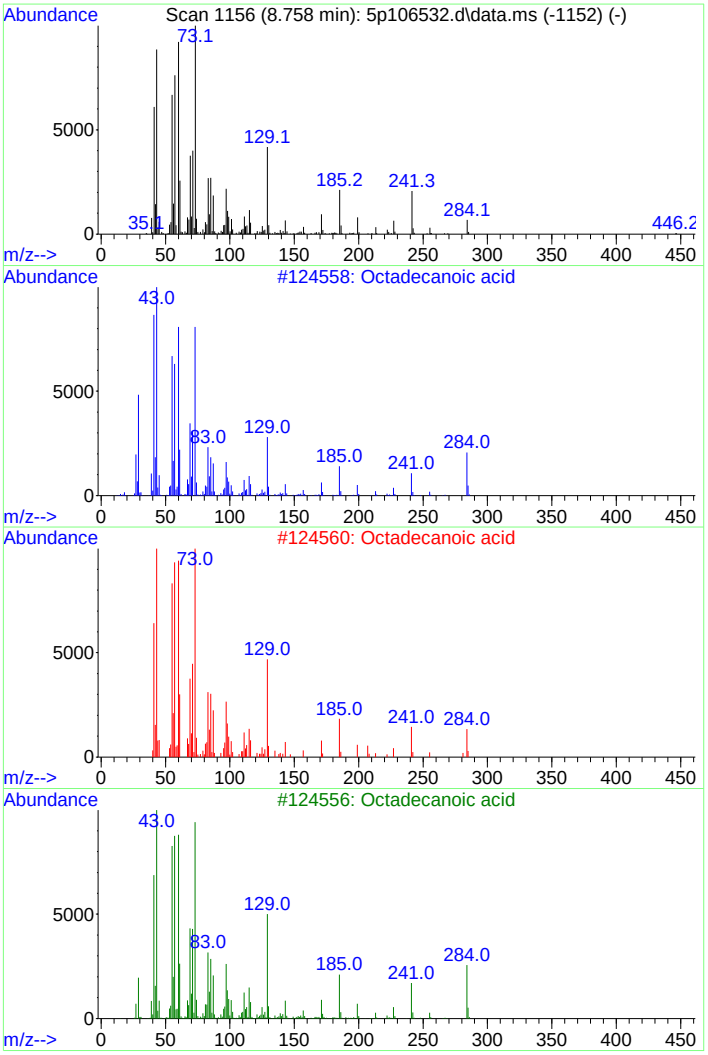
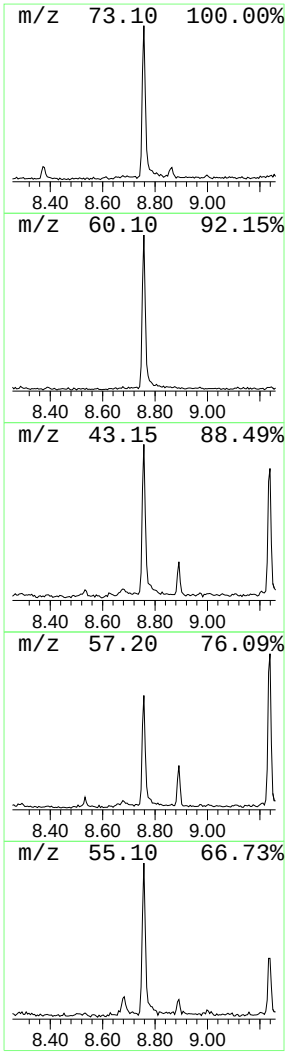
Peak Number 4 Octadecanoic acid Concentration Rank 7

R.T.	EstConc	Area	Relative to ISTD	R.T.
8.758	2.28 ppm	144341	Phenanthrene-d10b	7.545

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octadecanoic acid	284	C18H36O2	000057-11-4	98
2	Octadecanoic acid	284	C18H36O2	000057-11-4	97
3	Octadecanoic acid	284	C18H36O2	000057-11-4	96
4	Octadecanoic acid	284	C18H36O2	000057-11-4	90
5	Tetradecanoic acid	228	C14H28O2	000544-63-8	83





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ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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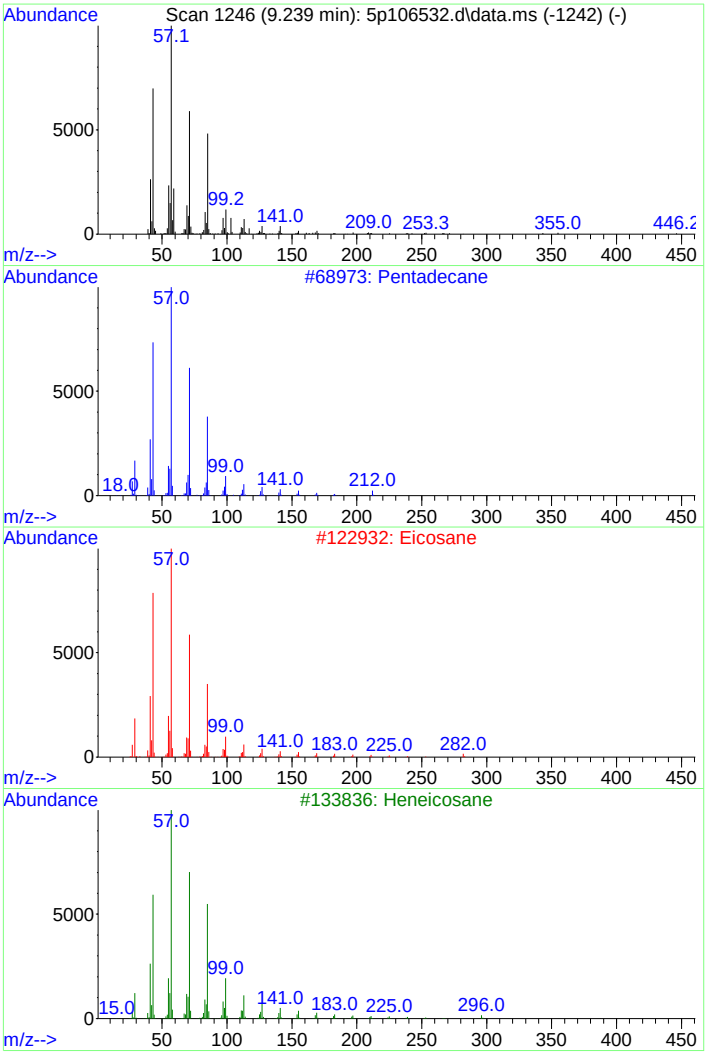
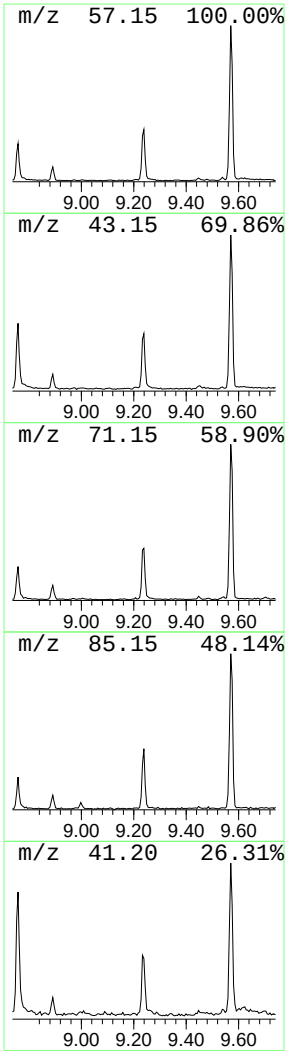
Peak Number 5 Alkane Concentration Rank 10

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.239	1.47 ppm	85501	Chrysene-d12	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Pentadecane	212	C15H32	000629-62-9	74
2	Eicosane	282	C20H42	000112-95-8	74
3	Heneicosane	296	C21H44	000629-94-7	72
4	Hexadecane	226	C16H34	000544-76-3	72
5	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	72





Library Search Compound Report

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Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
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Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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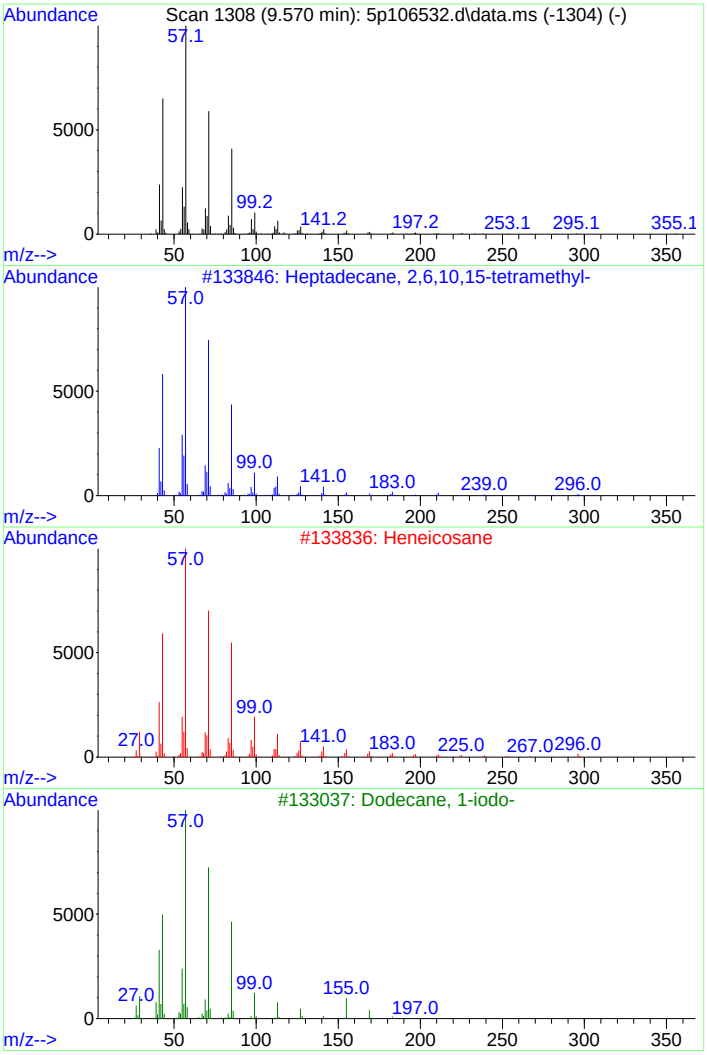
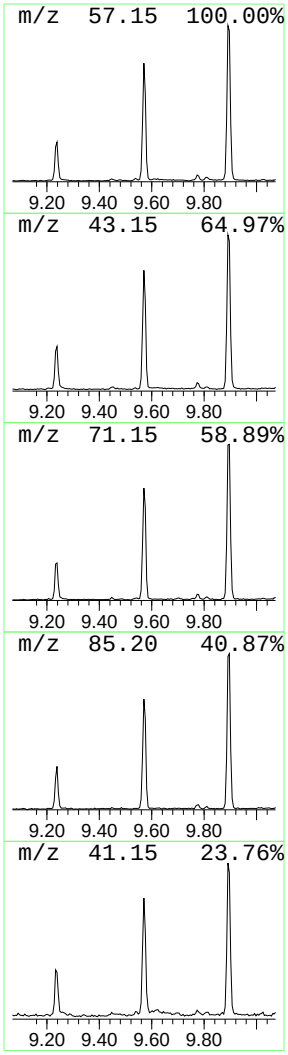
Peak Number 6 Alkane Concentration Rank 6

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.570	3.09 ppm	179829	Chrysene-d12	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane, 2,6,10,15-tetramethyl-	296	C21H44	054833-48-6	90
2	Heneicosane	296	C21H44	000629-94-7	90
3	Dodecane, 1-iodo-	296	C12H25I	004292-19-7	86
4	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	86
5	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	86





Library Search Compound Report

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Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
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Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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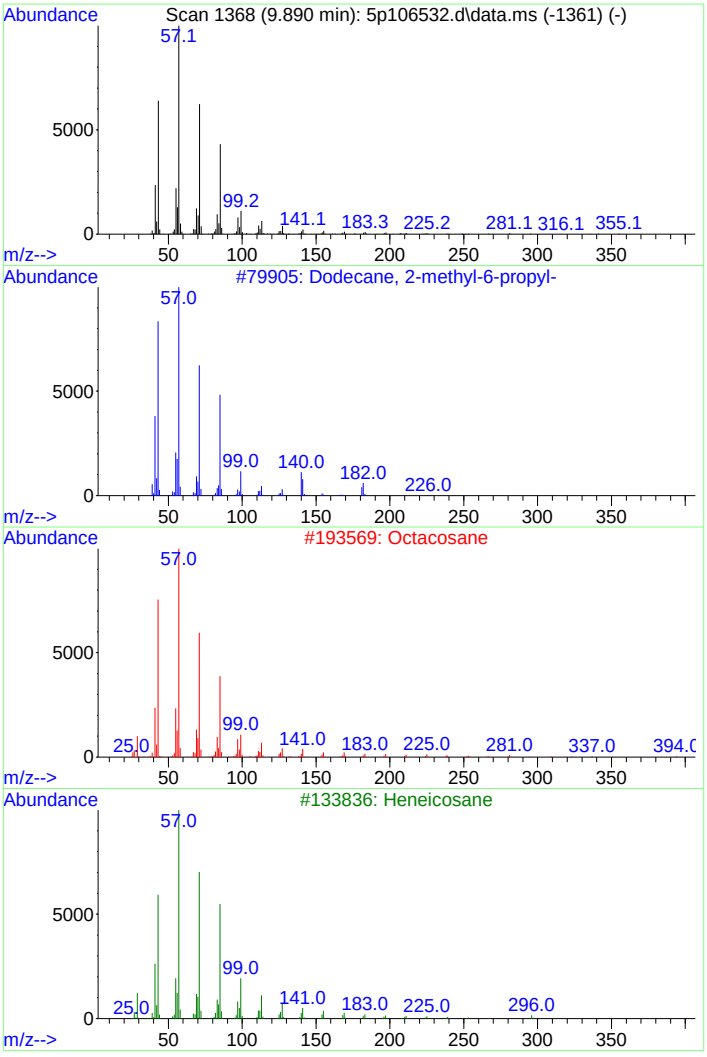
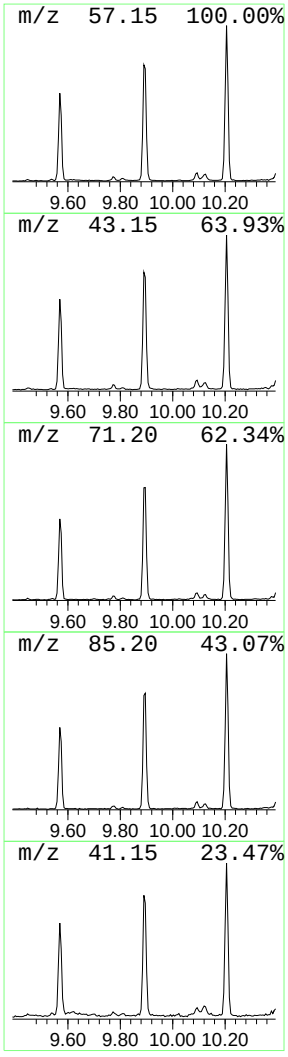
Peak Number 7 Alkane Concentration Rank 3

R.T.	EstConc	Area	Relative to ISTD	R.T.
9.890	4.77 ppm	277010	Chrysene-d12	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	91
2	Octacosane	394	C28H58	000630-02-4	91
3	Heneicosane	296	C21H44	000629-94-7	90
4	Tridecane, 1-iodo-	310	C13H27I	035599-77-0	87
5	Heptacosane	380	C27H56	000593-49-7	83





Library Search Compound Report

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Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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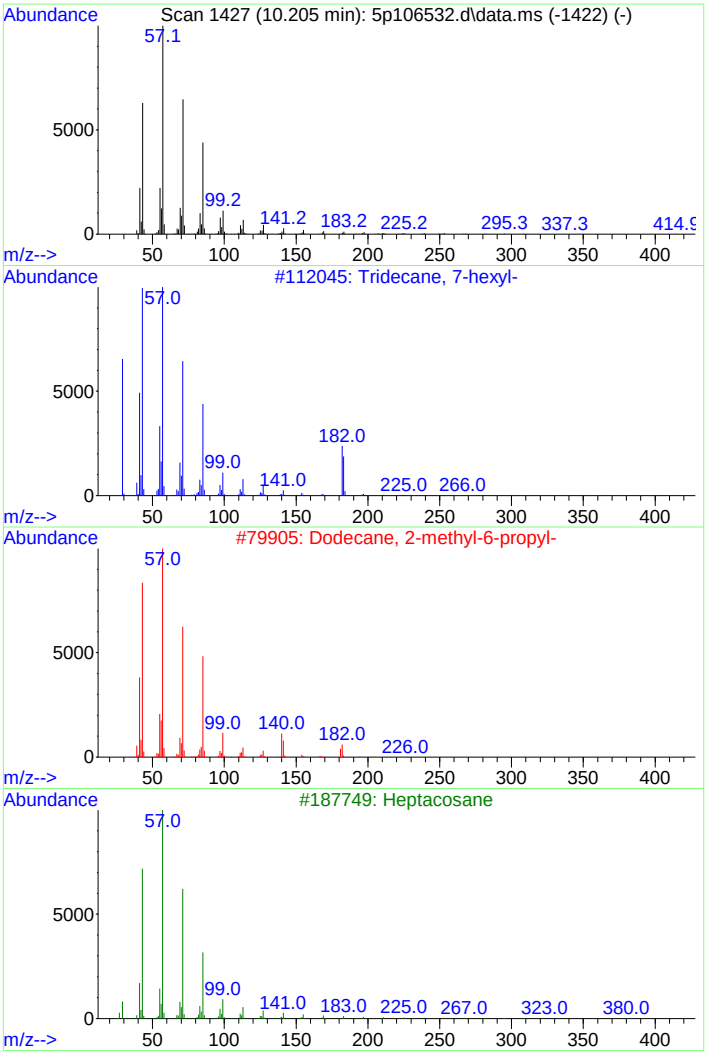
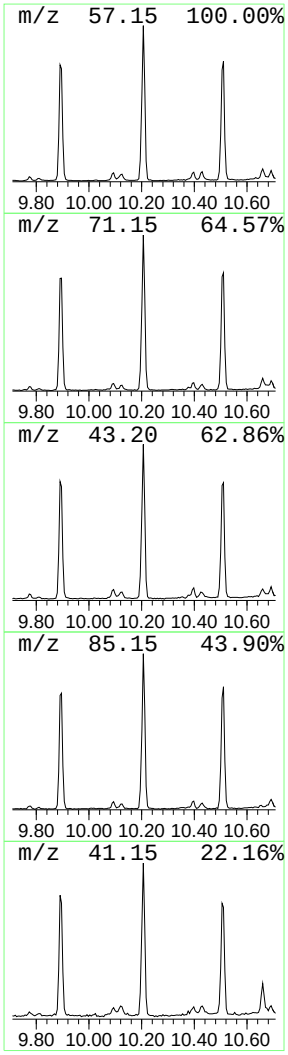
Peak Number 8 Alkane Concentration Rank 1

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.206	5.38 ppm	312879	Chrysene-d12a	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Tridecane, 7-hexyl-	268	C19H40	007225-66-3	94
2	Dodecane, 2-methyl-6-propyl-	226	C16H34	055045-08-4	91
3	Heptacosane	380	C27H56	000593-49-7	91
4	Heneicosane	296	C21H44	000629-94-7	90
5	Octacosane	394	C28H58	000630-02-4	90





Library Search Compound Report

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Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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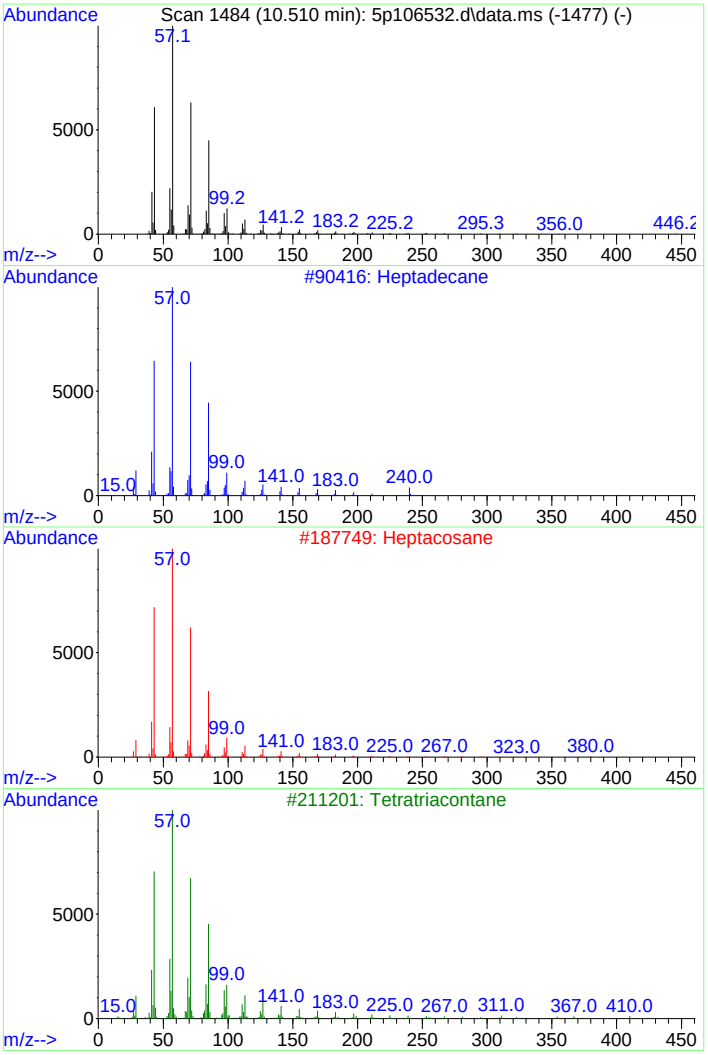
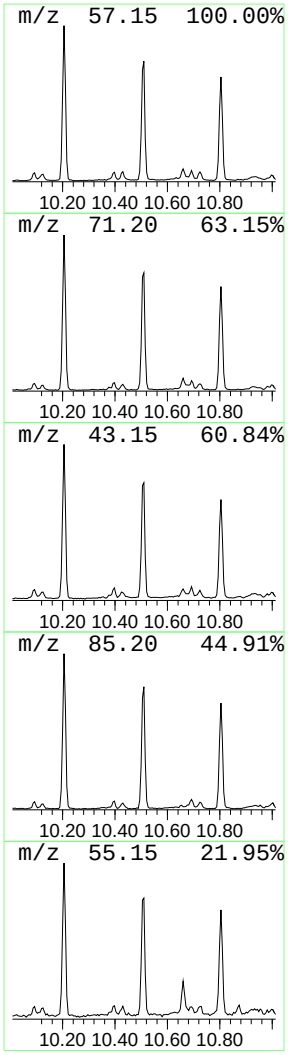
Peak Number 9 Alkane Concentration Rank 2

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.510	4.99 ppm	289827	Chrysene-d12a	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptadecane	240	C17H36	000629-78-7	94
2	Heptacosane	380	C27H56	000593-49-7	91
3	Tetratriacontane	479	C34H70	014167-59-0	91
4	Tetracosane	338	C24H50	000646-31-1	91
5	Octacosane	394	C28H58	000630-02-4	91





Library Search Compound Report

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Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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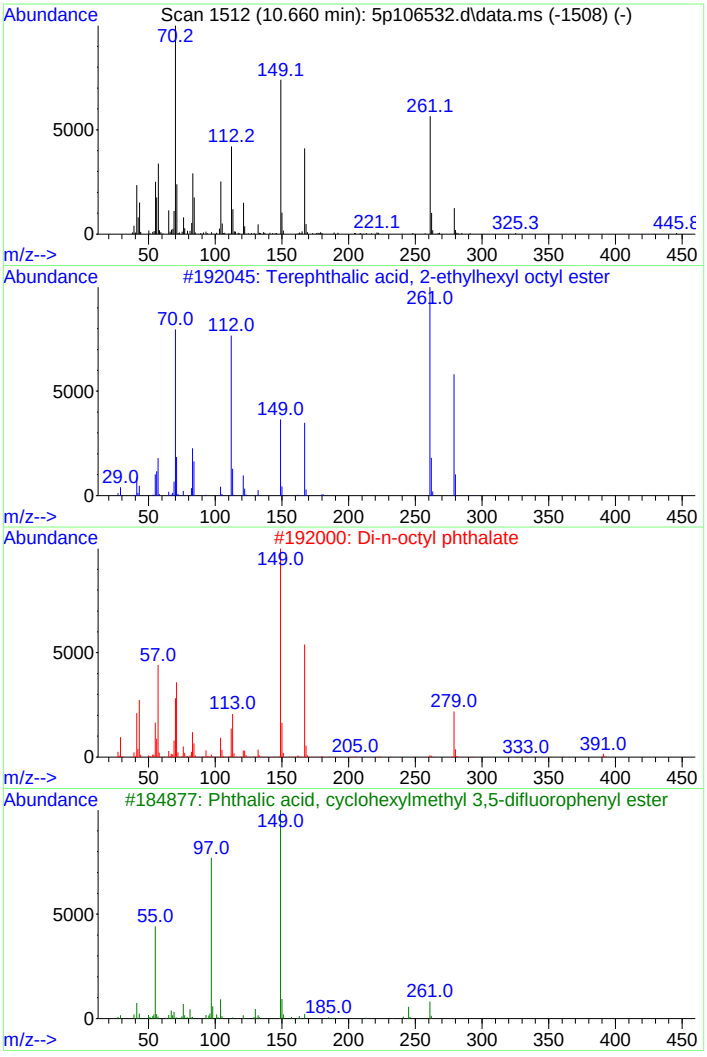
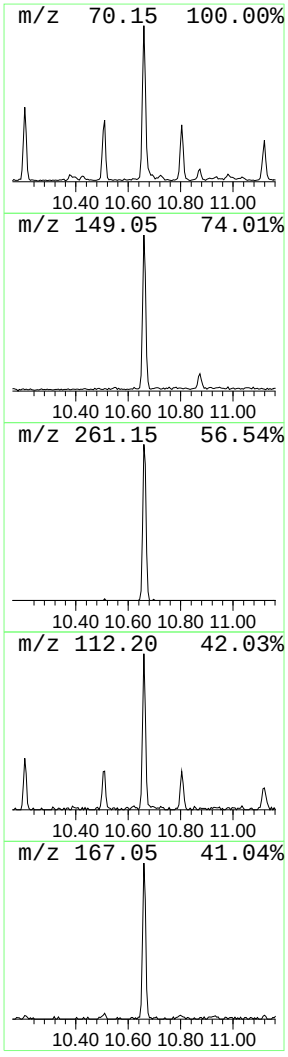
Peak Number 10 Unknown Concentration Rank 9

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.660	2.08 ppm	121002	Chrysene-d12a	10.019

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Terephthalic acid, 2-ethylhexyl ...	390	C24H38O4	1000324-00-5	50
2	Di-n-octyl phthalate	390	C24H38O4	000117-84-0	38
3	Phthalic acid, cyclohexylmethyl ...	374	C21H20F2O4	1000315-61-2	27
4	9-(2',2'-Dimethylpropanoilhydraz...	576	C30H42Cl2N4O3	1000111-04-6	27
5	Terephthalic acid, di(4-octyl) e...	390	C24H38O4	1000323-74-2	27





Library Search Compound Report

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Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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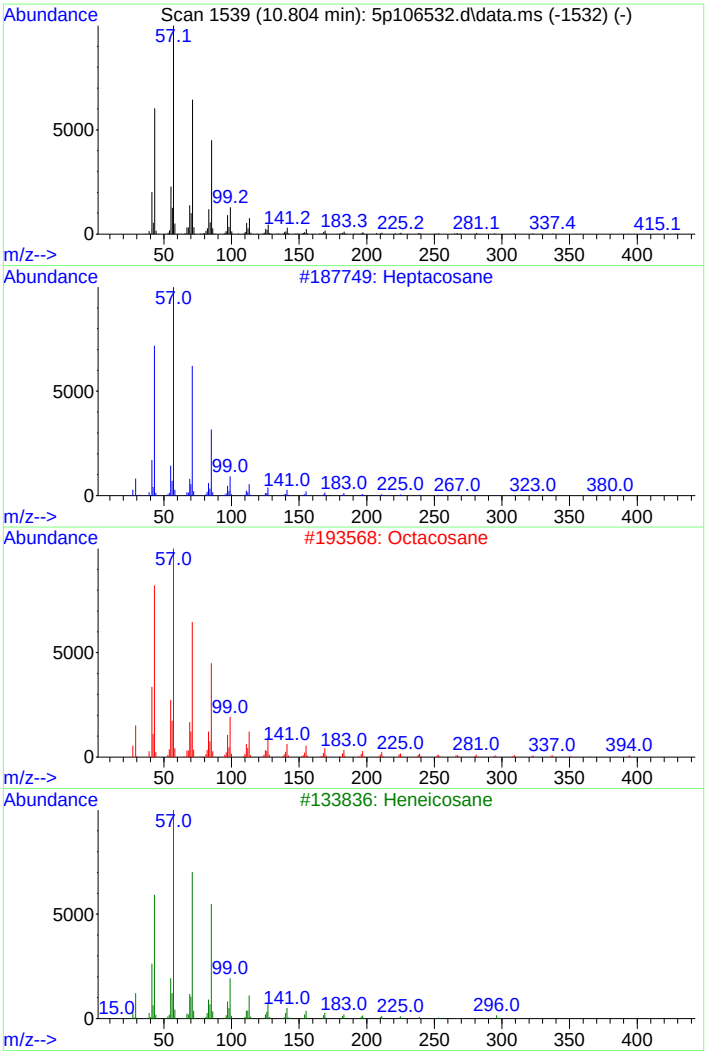
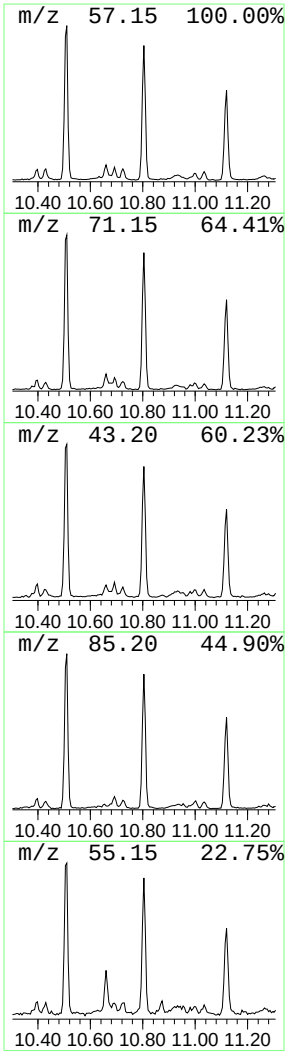
Peak Number 11 Alkane Concentration Rank 4

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.804	4.08 ppm	247608	Perylene-d12	11.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Octacosane	394	C28H58	000630-02-4	91
3	Heneicosane	296	C21H44	000629-94-7	90
4	Tetracosane	338	C24H50	000646-31-1	90
5	Octacosane	394	C28H58	000630-02-4	90





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Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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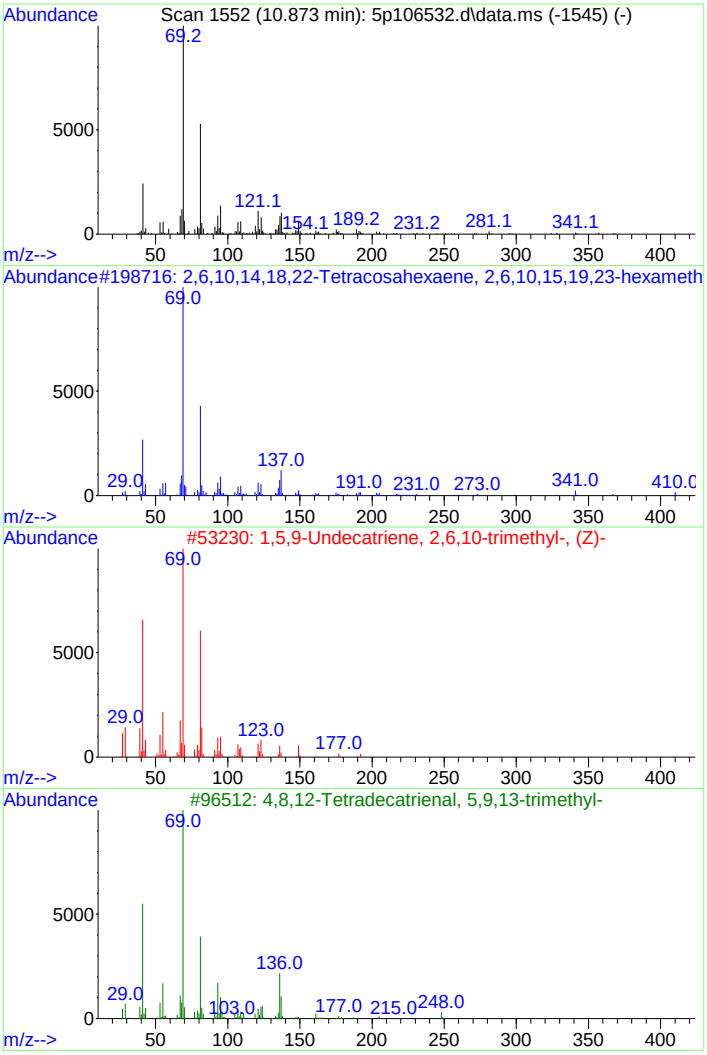
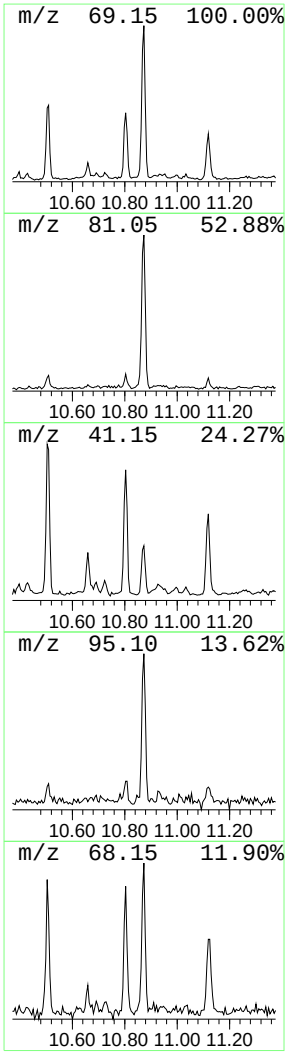
Peak Number 12 Unknown Concentration Rank 11

R.T.	EstConc	Area	Relative to ISTD	R.T.
10.873	1.33 ppm	80605	Perylene-d12	11.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	2,6,10,14,18,22-Tetracosahexaene...	410	C30H50	000111-02-4	86
2	1,5,9-Undecatriene, 2,6,10-trime...	192	C14H24	062951-96-6	83
3	4,8,12-Tetradecatrienal, 5,9,13-...	248	C17H28O	066408-55-7	72
4	2,6,10-Dodecatrienoic acid, 3,7,...	250	C16H26O2	004176-79-8	64
5	2,6,10-Dodecatrien-1-ol, 3,7,11-...	222	C15H26O	000106-28-5	64





Library Search Compound Report

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Data File : 5p106532.d
Acq On    : 25 Nov 2025    6:06 pm
Operator  : thomasl
Sample    : op69240b-mb1
Misc      : op69240b,e5p5039,250,,,1,1
ALS Vial  : 8   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title  : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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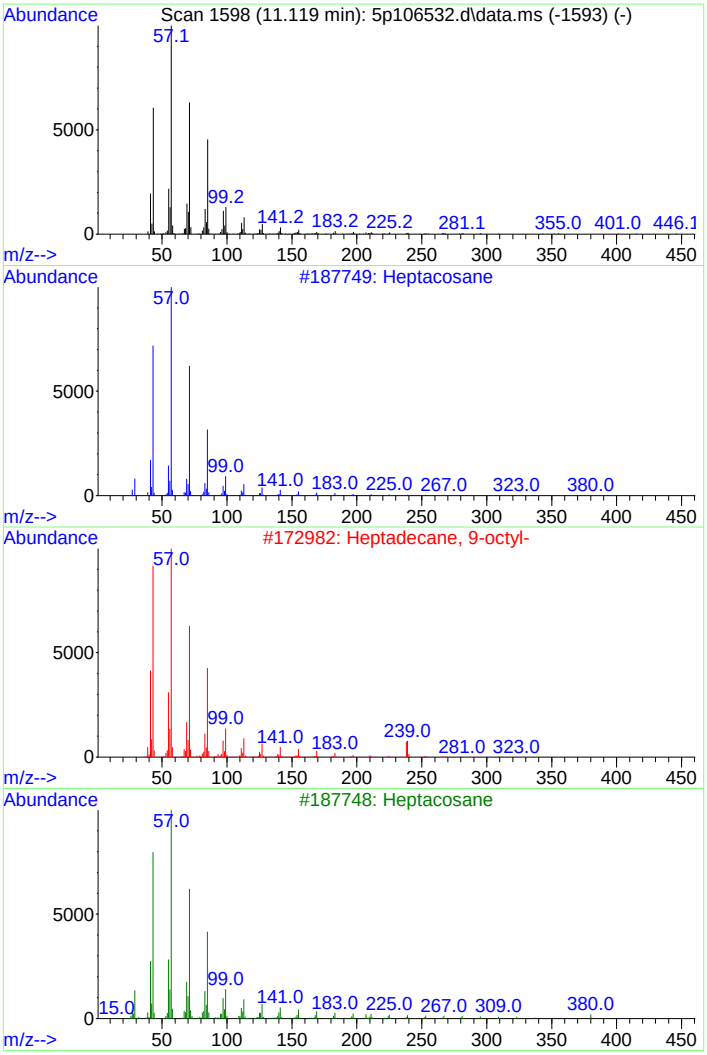
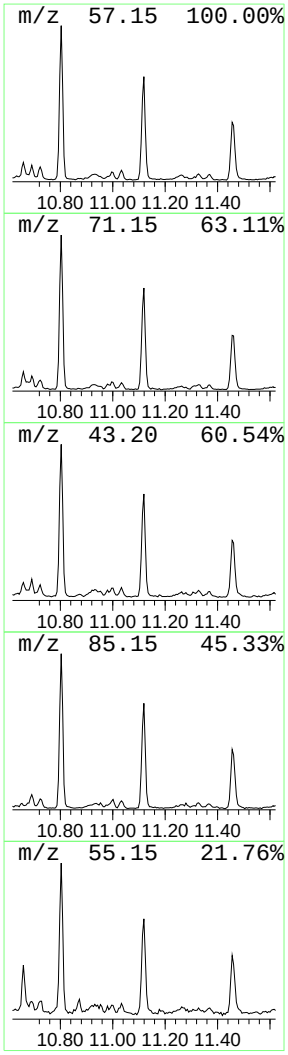
Peak Number 13 Alkane Concentration Rank 5

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.119	3.13 ppm	190040	Perylene-d12	11.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	91
2	Heptadecane, 9-octyl-	352	C25H52	007225-64-1	90
3	Heptacosane	380	C27H56	000593-49-7	90
4	Tetratriacontane	479	C34H70	014167-59-0	90
5	Octadecane	254	C18H38	000593-45-3	87





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Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

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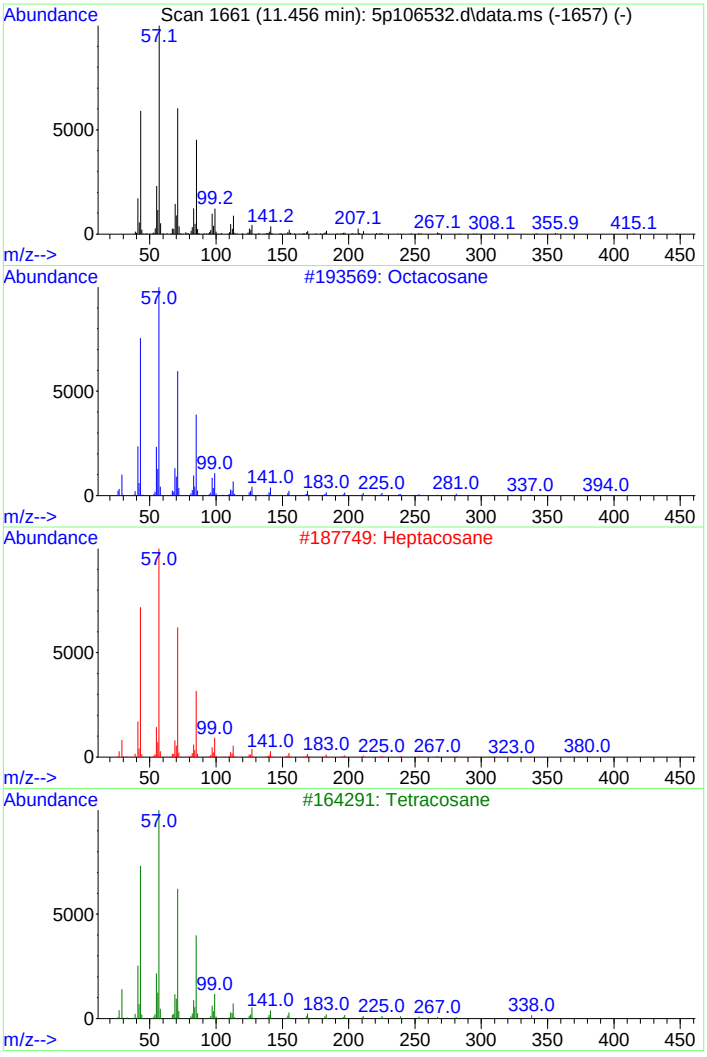
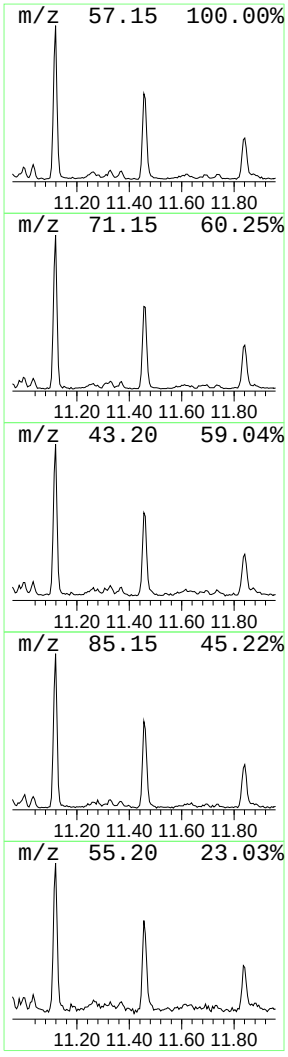
Peak Number 14 Alkane Concentration Rank 8

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.456	2.13 ppm	129228	Perylene-d12	11.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Octacosane	394	C28H58	000630-02-4	91
2	Heptacosane	380	C27H56	000593-49-7	91
3	Tetracosane	338	C24H50	000646-31-1	91
4	Pentacosane	352	C25H52	000629-99-2	90
5	Nonadecane	268	C19H40	000629-92-5	87





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Data File : 5p106532.d
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Operator  : thomasl
Sample    : op69240b-mb1
Misc      : op69240b,e5p5039,250,,,1,1
ALS Vial  : 8   Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title  : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library   : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p
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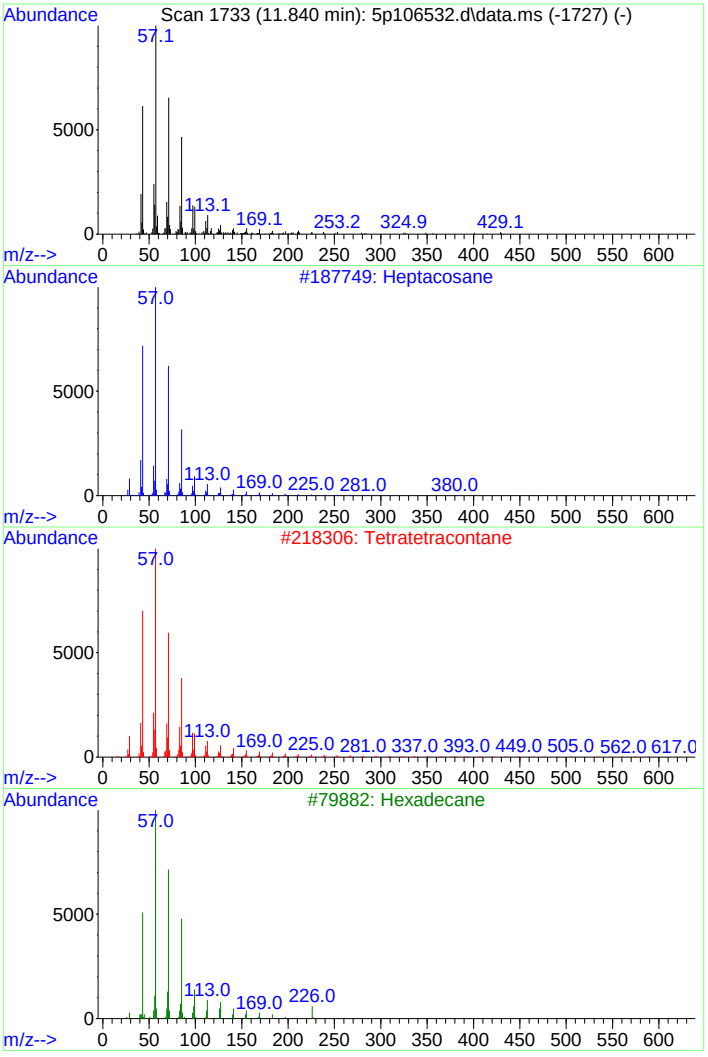
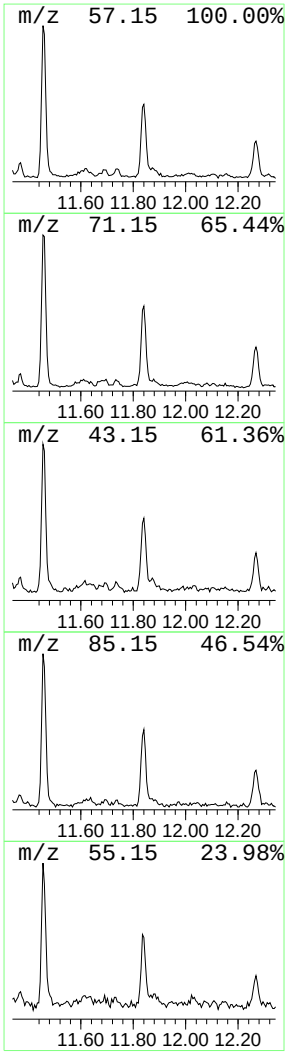
Peak Number 15 Alkane Concentration Rank 12

R.T.	EstConc	Area	Relative to ISTD	R.T.
11.840	1.30 ppm	78852	Perylene-d12	11.397

Hit# of 5	Tentative ID	MW	MolForm	CAS#	Qual
1	Heptacosane	380	C27H56	000593-49-7	90
2	Tetratetracontane	619	C44H90	007098-22-8	81
3	Hexadecane	226	C16H34	000544-76-3	80
4	Hexadecane	226	C16H34	000544-76-3	80
5	Tetracosane	338	C24H50	000646-31-1	68





Tentatively Identified Compound (LSC) summary

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\e5p5039\
Data File : 5p106532.d
Acq On : 25 Nov 2025 6:06 pm
Operator : thomasl
Sample : op69240b-mb1
Misc : op69240b,e5p5039,250,,,1,1
ALS Vial : 8 Sample Multiplier: 1

Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\M5P5038LVI.M
Quant Title : Semi Volatile GC/MS,rxi 5sil ms 30m .25mm .25um

TIC Library : C:\Database\NIST08.L
TIC Integration Parameters: lscint.p

					Internal Standard			
TIC Top Hit name	RT	EstConc	Units	Response	#	RT	Resp	Conc
Unknown	2.641	0.9	ppm	36314	2	4.505	315458	8.0
Unknown	4.014	1.0	ppm	39652	2	4.505	315458	8.0
Unknown	4.158	0.8	ppm	33113	2	4.505	315458	8.0
Octadecanoic acid	8.758	2.3	ppm	144341	8	7.545	506454	8.0
Alkane	9.239	1.5	ppm	85501	9	10.019	464980	8.0
Alkane	9.570	3.1	ppm	179829	9	10.019	464980	8.0
Alkane	9.890	4.8	ppm	277010	9	10.019	464980	8.0
Alkane	10.206	5.4	ppm	312879	10	10.019	464980	8.0
Alkane	10.510	5.0	ppm	289827	10	10.019	464980	8.0
Unknown	10.660	2.1	ppm	121002	10	10.019	464980	8.0
Alkane	10.804	4.1	ppm	247608	11	11.397	485888	8.0
Unknown	10.873	1.3	ppm	80605	11	11.397	485888	8.0
Alkane	11.119	3.1	ppm	190040	11	11.397	485888	8.0
Alkane	11.456	2.1	ppm	129228	11	11.397	485888	8.0
Alkane	11.840	1.3	ppm	78852	11	11.397	485888	8.0

Manual Integrations APPROVED (compounds with "m" flag)
Jezreel Oblin 11/26/25 04:19

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\ecs503\
Data File : cs9983.D
Acq On : 25 Nov 2025 06:17 pm
Operator : alejanda
Sample : op69305a-mb1 Inst : GCMS_CS
Misc : op69305a,ecs503,250,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 04:51:16 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\mcs491SIMLVI.M
Quant Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Wed Nov 26 04:40:28 2025
Response via : Initial Calibration

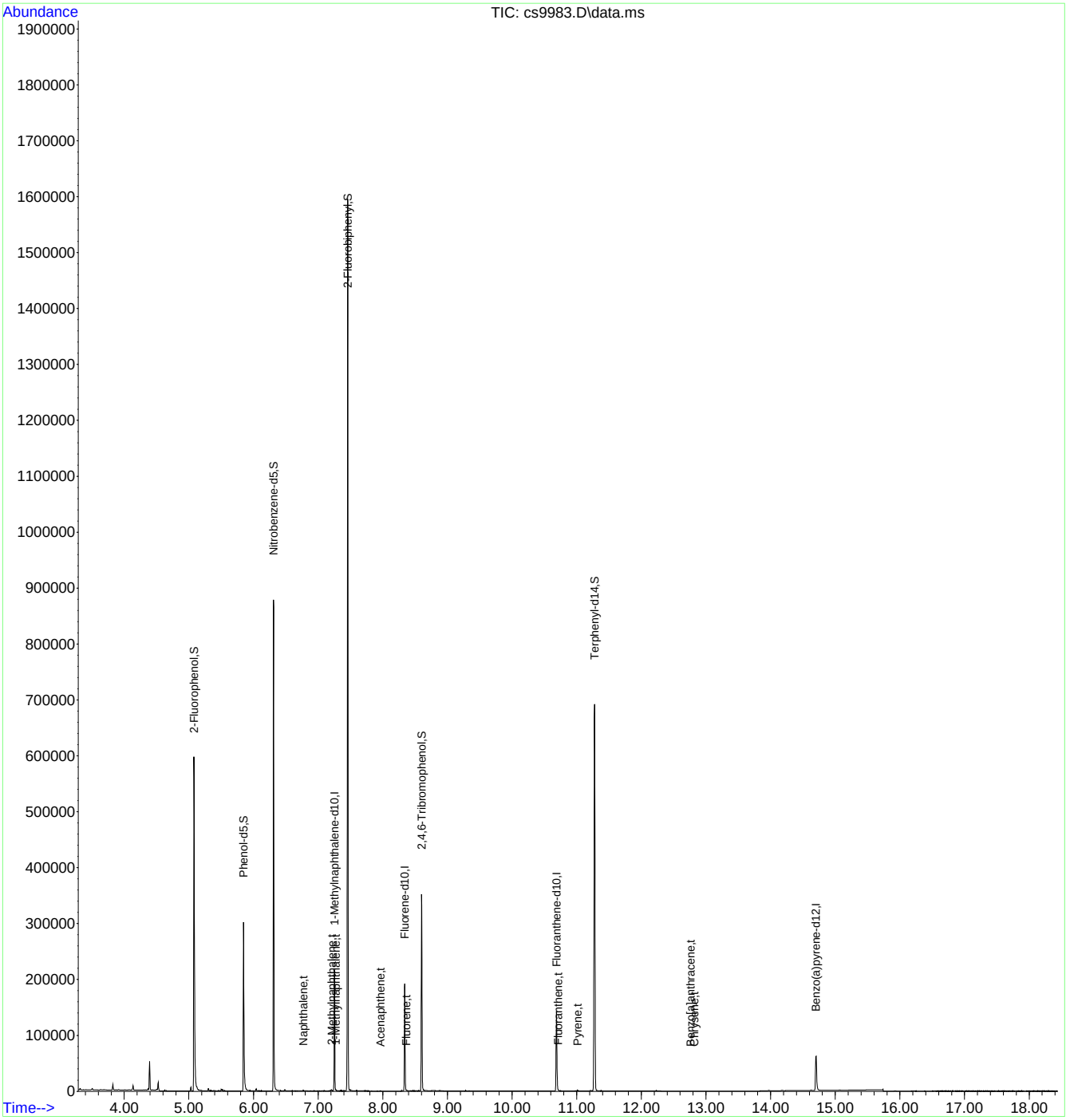
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) 1-Methylnaphthalene-d10	7.253	150	55482	800.00	ppb	0.00
11) Fluorene-d10	8.339	176	70960	800.00	ppb	0.00
18) Fluoranthene-d10	10.687	212	107780	800.00	ppb	-0.03
28) Benzo(a)pyrene-d12	14.698	264	57705	800.00	ppb	-0.02
System Monitoring Compounds						
3) 2-Fluorophenol	5.081	112	258251	4176.69	ppb	0.00
Spiked Amount 10000.000			Recovery =	41.77%		
4) Phenol-d5	5.846	99	227873	3015.08	ppb	0.00
Spiked Amount 10000.000			Recovery =	30.15%		
6) Nitrobenzene-d5	6.310	82	381821	5862.80	ppb	0.00
Spiked Amount 10000.000			Recovery =	58.63%		
12) 2-Fluorobiphenyl	7.457	172	658872	5268.26	ppb	0.00
Spiked Amount 10000.000			Recovery =	52.68%		
17) 2,4,6-Tribromophenol	8.601	330	112337	6307.53	ppb	0.00
Spiked Amount 10000.000			Recovery =	63.08%		
25) Terphenyl-d14	11.276	244	480276	6141.78	ppb	-0.03
Spiked Amount 10000.000			Recovery =	61.42%		
Target Compounds						Qvalue
7) Naphthalene	6.769	128	736m	3.4020	ppb	
9) 2-Methylnaphthalene	7.208	141	480m	4.3684	ppb	
10) 1-Methylnaphthalene	7.275	141	273m	2.4292	ppb	
14) Acenaphthene	7.962	153	166m	1.2582	ppb	
15) Fluorene	8.365	166	266	1.8419	ppb	83
23) Fluoranthene	10.715	202	506	2.3977	ppb	86
24) Pyrene	11.011	202	409	1.9533	ppb	92
26) Benzo[a]anthracene	12.761	228	171	1.1868	ppb	68
27) Chrysene	12.818	228	168	1.1098	ppb	88

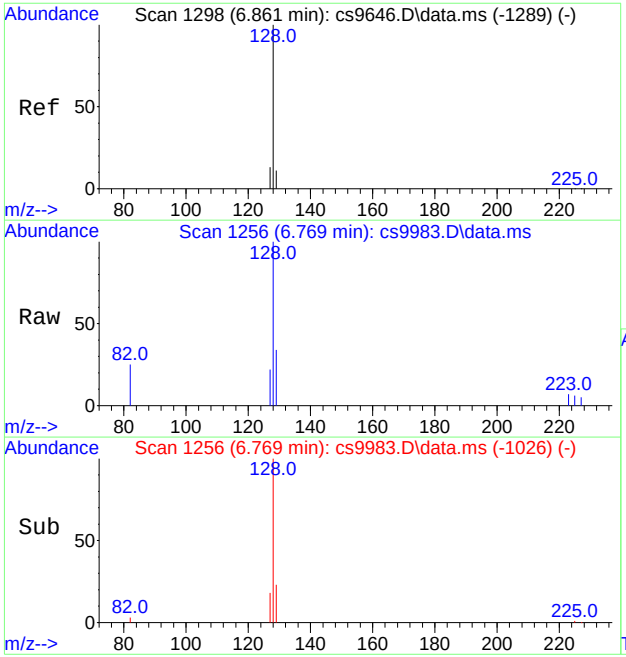
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data Path : X:\Dayton SVOA GCMS\katrinam\Batch\November 2025\ecs503\
Data File : cs9983.D
Acq On : 25 Nov 2025 06:17 pm
Operator : alejanda
Sample : op69305a-mb1 Inst : GCMS_CS
Misc : op69305a,ecs503,250,,,1,1
ALS Vial : 3 Sample Multiplier: 1

Quant Time: Nov 26 04:51:16 2025
Quant Method : X:\Dayton SVOA GCMS\katrinam\methods\mcs491SIMLVI.M
Quant Title : Semi Volatiles GC/MS: ZB-5MSplus 30m x 0.25mm x 0.25um
QLast Update : Wed Nov 26 04:40:28 2025
Response via : Initial Calibration

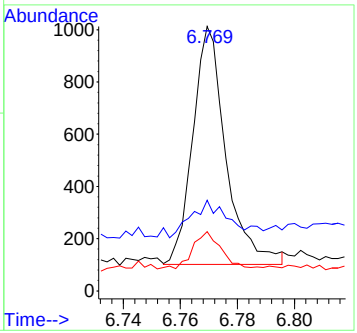


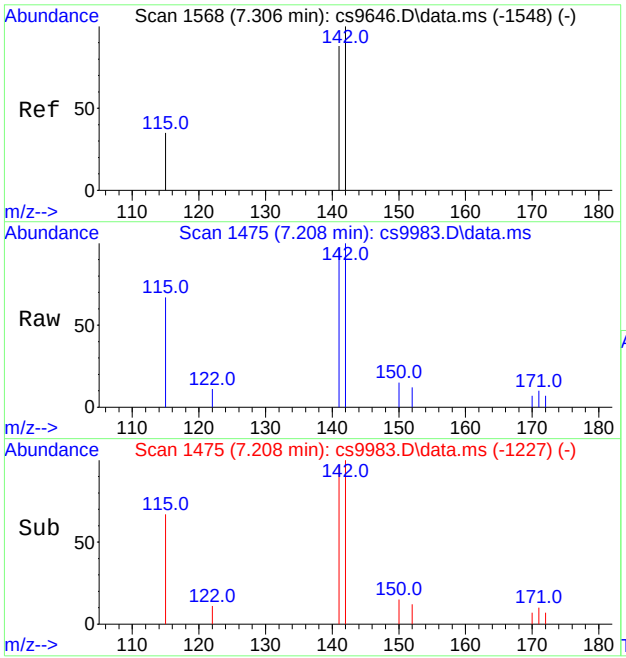


#7
Naphthalene
Concen: 3.4020 ppb m
RT: 6.769 min Scan# 1256
Delta R.T. 0.002 min
Lab File: cs9983.D
Acq: 25 Nov 2025 06:17 pm

Tgt Ion:128 Resp: 736

Ion	Ratio	Lower	Upper
128	100		
129	34.3	0.0	41.0
127	22.4	0.0	42.8

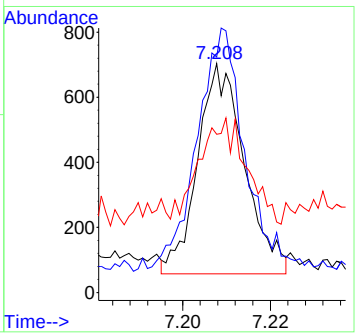


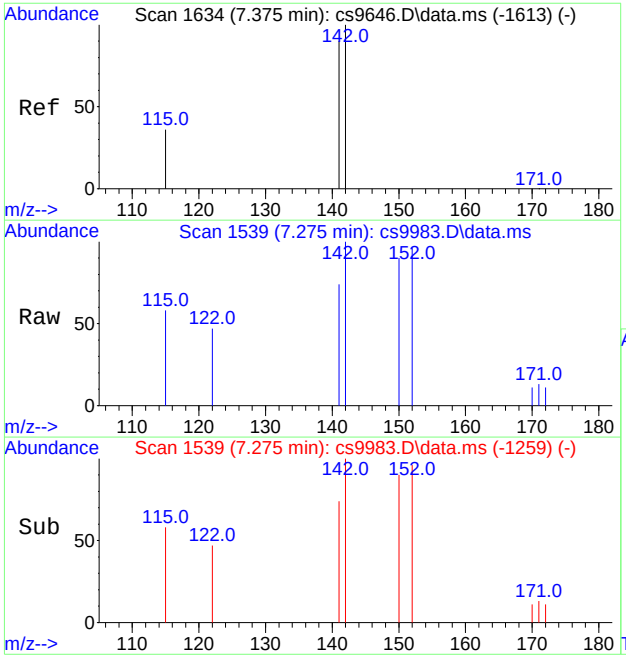


#9
2-Methylnaphthalene
Concen: 4.3684 ppb m
RT: 7.208 min Scan# 1475
Delta R.T. 0.001 min
Lab File: cs9983.D
Acq: 25 Nov 2025 06:17 pm

Tgt Ion:141 Resp: 480

Ion	Ratio	Lower	Upper
141	100		
142	103.0	84.6	144.6
115	69.1	9.7	69.7

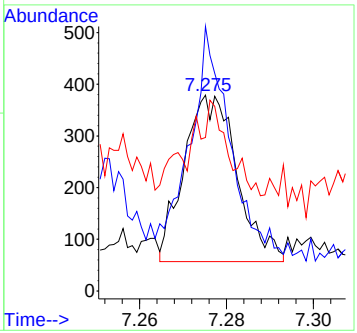


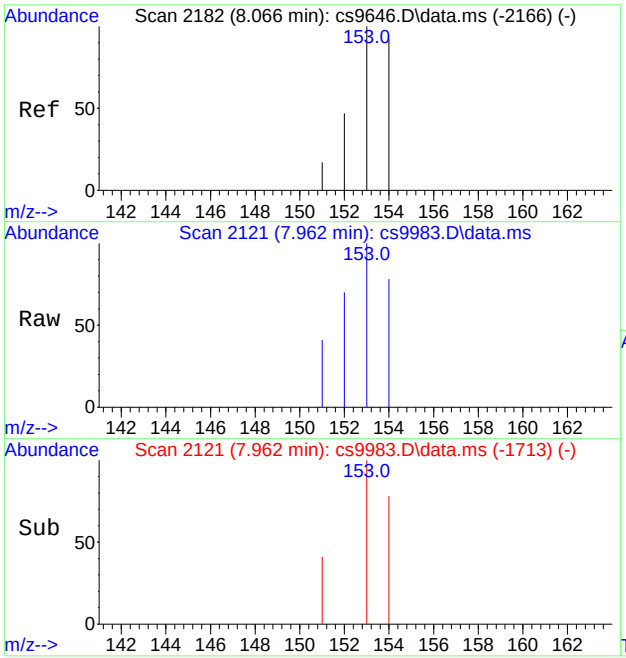


#10
1-Methylnaphthalene
Concen: 2.4292 ppb m
RT: 7.275 min Scan# 1539
Delta R.T. 0.000 min
Lab File: cs9983.D
Acq: 25 Nov 2025 06:17 pm

Tgt Ion:141 Resp: 273

Ion	Ratio	Lower	Upper
141	100		
142	135.1	81.7	141.7
115	78.4	10.5	70.5#

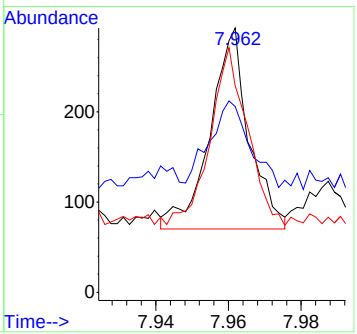


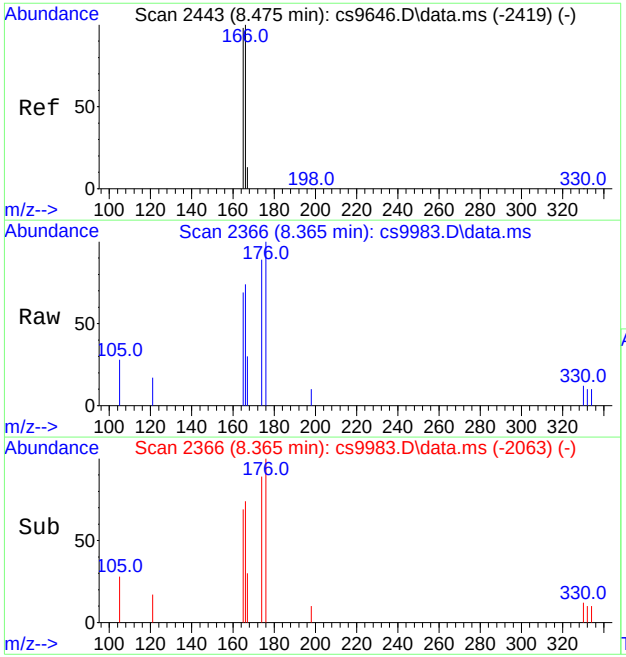


#14
Acenaphthene
Concen: 1.2582 ppb m
RT: 7.962 min Scan# 2121
Delta R.T. 0.004 min
Lab File: cs9983.D
Acq: 25 Nov 2025 06:17 pm

Tgt Ion:153 Resp: 166

Ion	Ratio	Lower	Upper
153	100		
152	70.3	17.1	77.1
154	78.2	61.9	121.9

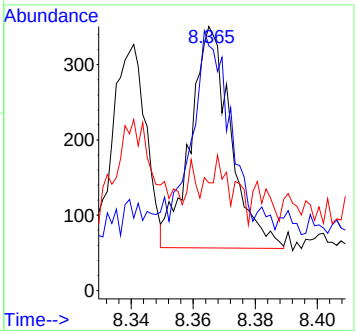


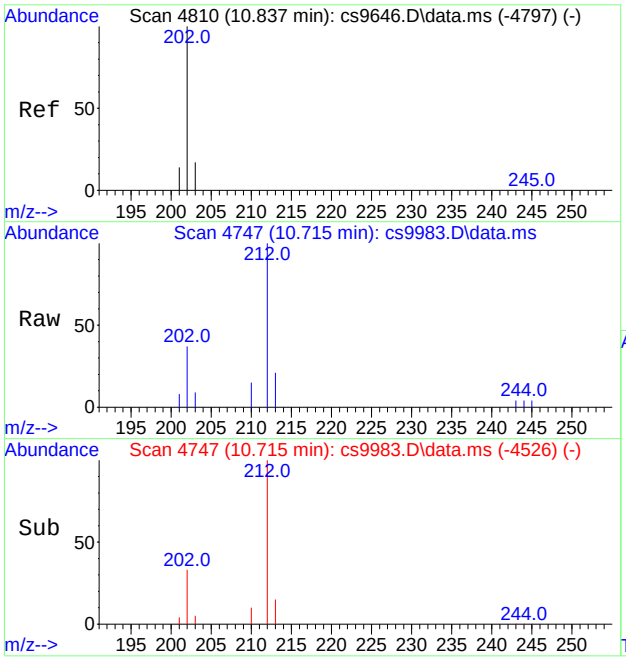


#15
Fluorene
Concen: 1.8419 ppb
RT: 8.365 min Scan# 2366
Delta R.T. 0.002 min
Lab File: cs9983.D
Acq: 25 Nov 2025 06:17 pm

Tgt Ion:166 Resp: 266

Ion	Ratio	Lower	Upper
166	100		
165	81.1	67.7	127.7
167	4.5	0.0	42.9

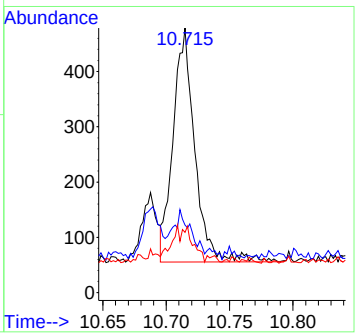


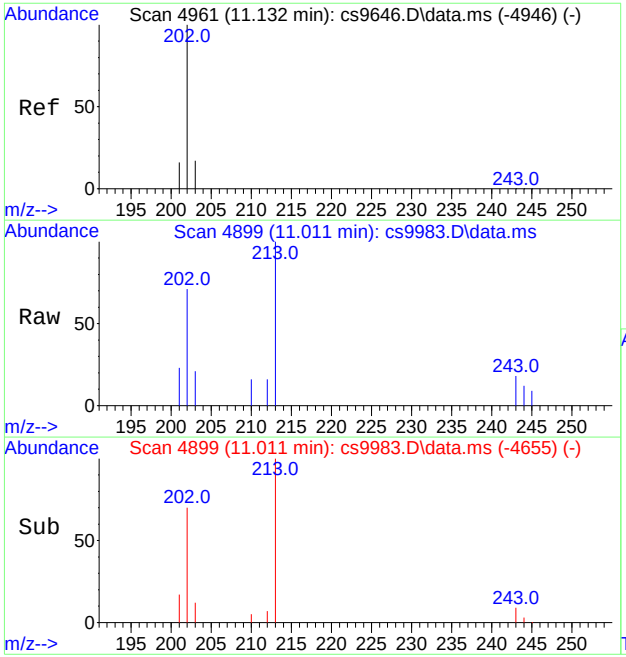


#23
Fluoranthene
Concen: 2.3977 ppb
RT: 10.715 min Scan# 4747
Delta R.T. -0.029 min
Lab File: cs9983.D
Acq: 25 Nov 2025 06:17 pm

Tgt Ion:202 Resp: 506

Ion	Ratio	Lower	Upper
202	100		
203	6.9	0.0	46.7
201	12.5	0.0	43.9

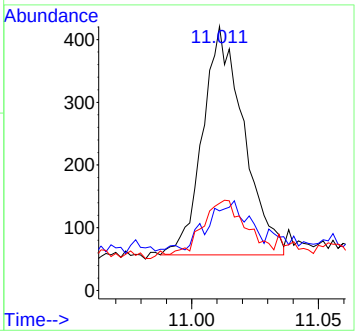


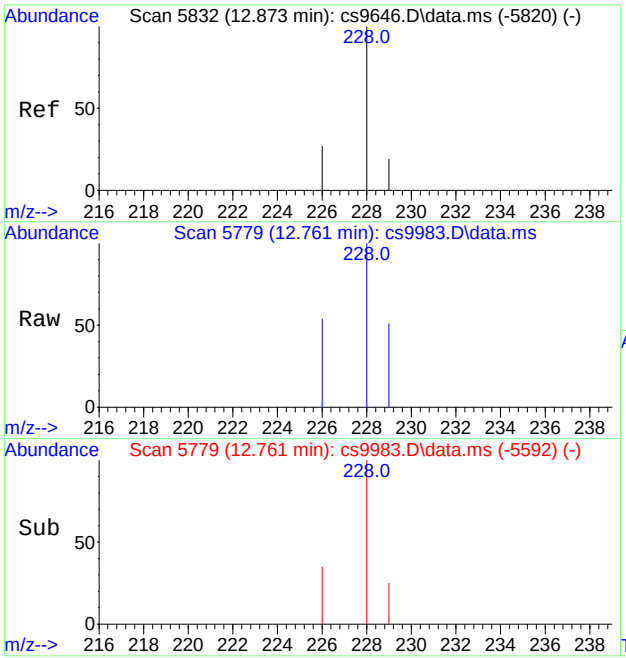


#24
Pyrene
Concen: 1.9533 ppb
RT: 11.011 min Scan# 4899
Delta R.T. -0.025 min
Lab File: cs9983.D
Acq: 25 Nov 2025 06:17 pm

Tgt Ion:202 Resp: 409

Ion	Ratio	Lower	Upper
202	100		
203	14.3	0.0	47.0
201	20.1	0.0	46.2

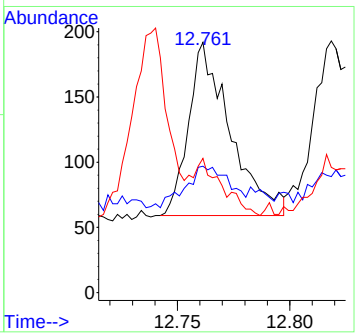


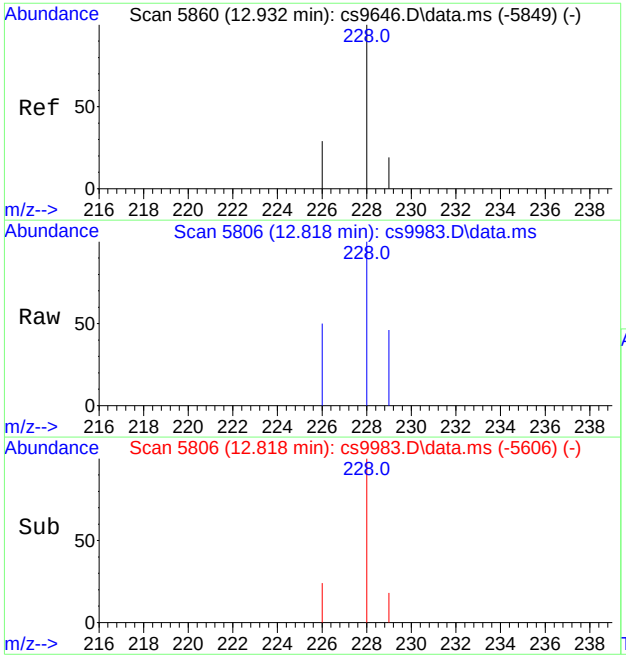


#26
Benzo[a]anthracene
Concen: 1.1868 ppb
RT: 12.761 min Scan# 5779
Delta R.T. -0.015 min
Lab File: cs9983.D
Acq: 25 Nov 2025 06:17 pm

Tgt Ion:228 Resp: 171

Ion	Ratio	Lower	Upper
228	100		
229	20.6	0.0	48.9
226	0.0	0.0	56.9





#27
Chrysene
Concen: 1.1098 ppb
RT: 12.818 min Scan# 5806
Delta R.T. -0.015 min
Lab File: cs9983.D
Acq: 25 Nov 2025 06:17 pm

Tgt Ion:228 Resp: 168

Ion	Ratio	Lower	Upper
228	100		
226	24.7	0.0	59.5
229	11.1	0.0	48.8