

## Cover Page

**Order ID :** Q2842

**Project ID :** Former Schlumberger STC PTC Site D3868221

**Client :** JACOBS Engineering Group, Inc.

### Lab Sample Number

Q2842-01  
Q2842-02  
Q2842-03  
Q2842-04  
Q2842-05  
Q2842-06  
Q2842-08  
Q2842-09  
Q2842-10  
Q2842-11

### Client Sample Number

RMW-03B-90.4-081225  
RMW-02B-66.3-081225  
MW-17B-55.5-081225  
MW-17B-55.5-081225MS  
MW-17B-55.5-081225MSD  
MW-06-6.5-081225  
TB01-081225  
MW-17B-55.5-081225  
MW-17B-55.5-081225MS  
MW-17B-55.5-081225MSD

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : \_\_\_\_\_

Date: 10/28/2025



284 Sheffield Street, Mountainside, NJ 07092  
Phone: 908 789 8900 Fax: 908 789 8922

## **CASE NARRATIVE**

**JACOBS Engineering Group, Inc.**

**Project Name: Former Schlumberger STC PTC Site D3868221**

**Project # N/A**

**Order ID # Q2842**

**Test Name: SVOC-SIMGroup1**

### **A. Number of Samples and Date of Receipt:**

10 Water samples were received on 08/12/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Alkalinity, Anions Group1, Dissolved ICP-Group2, Dissolved Metals Group3, Mercury, Metals ICP-TAL, METALS-TAL, SVOC-SIMGroup1, TDS, VOC-SIM and VOCMS Group3. This data package contains results for SVOC-SIMGroup1.

### **C. Analytical Techniques:**

The samples were analyzed on instrument BNA\_N using GC Column ZB-SemiVolatiles Guardian which is 30 meters, 0.25 mm ID, 0.5 um df, Catalog # 7HG-G027-17-GGAThe analysis of SVOC-SIMGroup1 was based on method 8270-Modified and extraction was done based on method 3510.

### **D. QA/ QC Samples:**

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria except for RMW-02B-66.3-08122025DL [Terphenyl-d14 - 138%], MW-17B-55.5-08122025 [Terphenyl-d14 - 132%], these compounds did not meet the NJDKQP criteria but met the in-house criteria.

The Internal Standards Areas met the acceptable requirements.

The Retention Times were acceptable for all samples.

The MS recoveries met the requirements for all compounds .

The MSD recoveries met the acceptable requirements .

The RPD met criteria .

The Blank Spike met requirements for all samples .

The Blank analysis did not indicate the presence of lab contamination.

The Initial Calibration met the requirements .

The Continuous Calibration met the requirements .

The Tuning criteria met requirements.

Samples RMW-03B-90.4-08122025, RMW-02B-66.3-08122025 were diluted due to high concentrations.



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**E. Additional Comments:**

This Data Package has been revised due to Data Package type changed

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The soil samples results are based on a dry weight basis.

**F. Manual Integration Comments:**

Please refer to the Manual integration Report included with the Run Logs for information on the manual integrations performed.

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Signature\_\_\_\_\_

## DATA REPORTING QUALIFIERS- ORGANIC

For reporting results, the following “Results Qualifiers” are used:

|       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|-------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Value | If the result is a value greater than or equal to the detection limit, report the value                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| U     | Indicates the compound was analyzed for but was not detected. Report the minimum detection limit for the sample with the U, i.e. “10 U”. This is not necessarily the instrument detection limit attainable for this particular sample based on any concentration or dilution that may have been required.                                                                                                                                                                                                                                 |
| ND    | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| J     | Indicates an estimated value. This flag is used:<br>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)<br>(2) When the mass spectral data indicated the identification, however the result was less than the specified detection limit greater than zero. If the detection limit was 10ug/L and a concentration of 3 ug/L was calculated report as 3 J. This flag is used when similar situation arise on any organic parameter i.e. Pest, PCB and others. |
| B     | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| E     | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                         |
| D     | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| P     | This flag is used for Pesticide/PCB target analyte when there is >25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on Form 1 and flagged with a “P”.                                                                                                                                                                                                                                                                                                                        |
| N     | This flag indicates presumptive evidence of a compound. This is only used for tentatively identified compounds (TICs), where the identification is based on a mass spectral library search. It applies to all TIC results. For generic characterization of a TIC, such as chlorinated hydrocarbon, the flag is not used.                                                                                                                                                                                                                  |
| A     | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| Q     | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |



# **ALLIANCE** 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

## **GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY**

ORDER ID: Q2842

MATRIX: Water

METHOD: 8270-Modified/3510

|    |                                                                                                                                                                                                                                                                                                                                                                                                            | NA | NO | YES |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 1. | Chromatograms Labeled/Compounds Identified. (Field samples and Method Blanks)                                                                                                                                                                                                                                                                                                                              |    |    | ✓   |
| 2. | GC/MS Tuning Specifications. DFTPP Meet Criteria.<br>(NOTE THAT THERE ARE DIFFERENT CRITERIA FOR NY ASP CLP,<br>CLP AND NJ)                                                                                                                                                                                                                                                                                |    |    | ✓   |
| 3. | GC/MS Tuning Frequency - Performed every 24 hours for 600 series and 12 hours for<br>8000 Series.                                                                                                                                                                                                                                                                                                          |    |    | ✓   |
| 4. | GC/MS Calibration - Initial Calibration performed within 30 days before sample<br>analysis and continuing calibration performed within 24 hours of sample analysis for<br>600 series and 12 hours for 8000 series.                                                                                                                                                                                         |    |    | ✓   |
| 5. | GC/MS Calibration Requirements.<br><br>The Initial Calibration met the requirements .<br>The Continuous Calibration met the requirements .                                                                                                                                                                                                                                                                 |    |    | ✓   |
| 6. | Blank Contamination - If yes, list compounds and concentrations in each blank:                                                                                                                                                                                                                                                                                                                             |    | ✓  |     |
| 7. | Surrogate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable<br>ranges.<br><br>The Surrogate recoveries met the acceptable criteria except for RMW-02B-66.3-<br>08122025DL [Terphenyl-d14 - 138%], MW-17B-55.5-08122025 [Terphenyl-d14 -<br>132%], these compounds did not meet the NJDKQP criteria but met the in-house<br>criteria. |    | ✓  |     |
| 8. | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria<br><br>If not met, list those compounds and their recoveries which fall outside the acceptable<br>range.<br><br>The Blank Spike met requirements for all samples .                                                                                                                                                                            |    |    | ✓   |

**ALLIANCE** 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012; NEW YORK LAB ID#: 11376

**GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY**

**(CONTINUED)**

|     |                                                           | NA | NO | YES |
|-----|-----------------------------------------------------------|----|----|-----|
| 9.  | Internal Standard Area/Retention Time Shift Meet Criteria |    |    | ✓   |
|     | Comments:                                                 |    |    |     |
| 10. | Extraction Holding Time Met                               |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample: |    |    |     |
| 11. | Analysis Holding Time Met                                 |    |    | ✓   |
|     | If not met, list number of days exceeded for each sample: |    |    |     |

**ADDITIONAL COMMENTS:**

This Data Package has been revised due to Data Package type changed

Samples RMW-03B-90.4-08122025, RMW-02B-66.3-08122025 were diluted due to high concentrations.

The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.

The soil samples results are based on a dry weight basis.

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\_\_\_\_\_  
QA REVIEW

\_\_\_\_\_  
Date

## APPENDIX A

### QA REVIEW GENERAL DOCUMENTATION

Project #: Q2842

Completed

For thorough review, the report must have the following:

#### GENERAL:

Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)

✓

Check chain-of-custody for proper relinquish/return of samples

✓

Is the chain of custody signed and complete

✓

Check internal chain-of-custody for proper relinquish/return of samples /sample extracts

✓

Collect information for each project id from server. Were all requirements followed

✓

#### COVER PAGE:

Do numbers of samples correspond to the number of samples in the Chain of Custody on login page

✓

Do lab numbers and client Ids on cover page agree with the Chain of Custody

✓

#### CHAIN OF CUSTODY:

Do requested analyses on Chain of Custody agree with form I results

✓

Do requested analyses on Chain of Custody agree with the log-in page

✓

Were the correct method log-in for analysis according to the Analytical Request and Chain of Custody

✓

Were the samples received within hold time

✓

Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle

✓

#### ANALYTICAL:

Was method requirement followed?

✓

Was client requirement followed?

✓

Does the case narrative summarize all QC failure?

✓

All runlogs and manual integration are reviewed for requirements

✓

All manual calculations and /or hand notations verified

✓

QA Review Signature: SOHIL JODHANI

Date: 10/28/2025

## LAB CHRONICLE

|                 |                                |                   |                                           |
|-----------------|--------------------------------|-------------------|-------------------------------------------|
| <b>OrderID:</b> | Q2842                          | <b>OrderDate:</b> | 8/13/2025 8:34:00 AM                      |
| <b>Client:</b>  | JACOBS Engineering Group, Inc. | <b>Project:</b>   | Former Schlumberger STC PTC Site D3868221 |
| <b>Contact:</b> | John Ynfante                   | <b>Location:</b>  | J23,J32,VOA Lab                           |

| LabID             | ClientID                                | Matrix       | Test           | Method        | Sample Date     | Prep Date | Anal Date | Received        |
|-------------------|-----------------------------------------|--------------|----------------|---------------|-----------------|-----------|-----------|-----------------|
| <b>Q2842-01</b>   | <b>RMW-03B-90.4-08122</b><br><b>5</b>   | <b>Water</b> |                |               | <b>08/12/25</b> |           |           | <b>08/12/25</b> |
|                   |                                         |              | SVOC-SIMGroup1 | 8270-Modified |                 | 08/18/25  | 08/19/25  |                 |
| <b>Q2842-01DL</b> | <b>RMW-03B-90.4-08122</b><br><b>5DL</b> | <b>Water</b> |                |               | <b>08/12/25</b> |           |           | <b>08/12/25</b> |
|                   |                                         |              | SVOC-SIMGroup1 | 8270-Modified |                 | 08/18/25  | 08/20/25  |                 |
| <b>Q2842-02</b>   | <b>RMW-02B-66.3-08122</b><br><b>5</b>   | <b>Water</b> |                |               | <b>08/12/25</b> |           |           | <b>08/12/25</b> |
|                   |                                         |              | SVOC-SIMGroup1 | 8270-Modified |                 | 08/18/25  | 08/19/25  |                 |
| <b>Q2842-02DL</b> | <b>RMW-02B-66.3-08122</b><br><b>5DL</b> | <b>Water</b> |                |               | <b>08/12/25</b> |           |           | <b>08/12/25</b> |
|                   |                                         |              | SVOC-SIMGroup1 | 8270-Modified |                 | 08/18/25  | 08/20/25  |                 |
| <b>Q2842-03</b>   | <b>MW-17B-55.5-081225</b>               | <b>Water</b> |                |               | <b>08/12/25</b> |           |           | <b>08/12/25</b> |
|                   |                                         |              | SVOC-SIMGroup1 | 8270-Modified |                 | 08/18/25  | 08/19/25  |                 |
| <b>Q2842-06</b>   | <b>MW-06-6.5-081225</b>                 | <b>Water</b> |                |               | <b>08/12/25</b> |           |           | <b>08/12/25</b> |
|                   |                                         |              | SVOC-SIMGroup1 | 8270-Modified |                 | 08/18/25  | 08/19/25  |                 |

### Hit Summary Sheet SW-846

SDG No.: Q2842

Client: JACOBS Engineering Group, Inc.

| Sample ID          | Client ID                    | Parameter                   | Concentration | C | MDL          | RDL  | Units |
|--------------------|------------------------------|-----------------------------|---------------|---|--------------|------|-------|
| <b>Client ID :</b> | <b>RMW-03B-90.4-081225</b>   |                             |               |   |              |      |       |
| Q2842-01           | RMW-03B-90.4-081225          | WATER 1,4-Dioxane           | 6.800         | E | 0.07         | 0.22 | ug/L  |
|                    |                              | <b>Total Svoc :</b>         |               |   | <b>6.80</b>  |      |       |
|                    |                              | <b>Total Concentration:</b> |               |   | <b>6.80</b>  |      |       |
| <b>Client ID :</b> | <b>RMW-03B-90.4-081225DL</b> |                             |               |   |              |      |       |
| Q2842-01DL         | RMW-03B-90.4-081225I         | WATER 1,4-Dioxane           | 6.600         | D | 0.15         | 0.44 | ug/L  |
|                    |                              | <b>Total Svoc :</b>         |               |   | <b>6.60</b>  |      |       |
|                    |                              | <b>Total Concentration:</b> |               |   | <b>6.60</b>  |      |       |
| <b>Client ID :</b> | <b>RMW-02B-66.3-081225</b>   |                             |               |   |              |      |       |
| Q2842-02           | RMW-02B-66.3-081225          | WATER 1,4-Dioxane           | 22.600        | E | 0.07         | 0.21 | ug/L  |
|                    |                              | <b>Total Svoc :</b>         |               |   | <b>22.60</b> |      |       |
|                    |                              | <b>Total Concentration:</b> |               |   | <b>22.60</b> |      |       |
| <b>Client ID :</b> | <b>RMW-02B-66.3-081225DL</b> |                             |               |   |              |      |       |
| Q2842-02DL         | RMW-02B-66.3-081225I         | WATER 1,4-Dioxane           | 27.000        | D | 0.68         | 2.1  | ug/L  |
|                    |                              | <b>Total Svoc :</b>         |               |   | <b>27.00</b> |      |       |
|                    |                              | <b>Total Concentration:</b> |               |   | <b>27.00</b> |      |       |
| <b>Client ID :</b> | <b>MW-17B-55.5-081225</b>    |                             |               |   |              |      |       |
| Q2842-03           | MW-17B-55.5-081225           | WATER 1,4-Dioxane           | 2.900         |   | 0.07         | 0.2  | ug/L  |
|                    |                              | <b>Total Svoc :</b>         |               |   | <b>2.90</b>  |      |       |
|                    |                              | <b>Total Concentration:</b> |               |   | <b>2.90</b>  |      |       |
| <b>Client ID :</b> | <b>MW-06-6.5-081225</b>      |                             |               |   |              |      |       |
| Q2842-06           | MW-06-6.5-081225             | WATER 1,4-Dioxane           | 0.640         |   | 0.07         | 0.21 | ug/L  |
|                    |                              | <b>Total Svoc :</b>         |               |   | <b>0.64</b>  |      |       |
|                    |                              | <b>Total Concentration:</b> |               |   | <b>0.64</b>  |      |       |



# QC SUMMARY

## Surrogate Summary

SW-846

SDG No.: Q2842

Client: JACOBS Engineering Group, Inc.

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID             | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |           |
|---------------|-----------------------|-------------------------|-------------|--------------|--------------|------|------------|-----------|
|               |                       |                         |             |              |              |      | Low        | High      |
| PB169286BL    | PB169286BL            | 2-Methylnaphthalene-d10 | 0.4         | 0.32         | 81           |      | 30 (20)    | 150 (139) |
|               |                       | Fluoranthene-d10        | 0.4         | 0.33         | 83           |      | 30 (54)    | 150 (157) |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.36         | 90           |      | 30 (27)    | 130 (154) |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.35         | 86           |      | 30 (30)    | 130 (155) |
|               |                       | Terphenyl-d14           | 0.4         | 0.37         | 93           |      | 30 (54)    | 130 (175) |
| PB169286BS    | PB169286BS            | 2-Methylnaphthalene-d10 | 0.4         | 0.33         | 82           |      | 30 (20)    | 150 (139) |
|               |                       | Fluoranthene-d10        | 0.4         | 0.31         | 76           |      | 30 (54)    | 150 (157) |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.35         | 87           |      | 30 (27)    | 130 (154) |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.36         | 90           |      | 30 (30)    | 130 (155) |
|               |                       | Terphenyl-d14           | 0.4         | 0.35         | 88           |      | 30 (54)    | 130 (175) |
| Q2842-01      | RMW-03B-90.4-081225   | 2-Methylnaphthalene-d10 | 0.4         | 0.26         | 66           |      | 30 (20)    | 150 (139) |
|               |                       | Fluoranthene-d10        | 0.4         | 0.38         | 94           |      | 30 (54)    | 150 (157) |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.30         | 74           |      | 30 (27)    | 130 (154) |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.35         | 87           |      | 30 (30)    | 130 (155) |
|               |                       | Terphenyl-d14           | 0.4         | 0.49         | 123          |      | 30 (54)    | 130 (175) |
| Q2842-01DL    | RMW-03B-90.4-081225DL | 2-Methylnaphthalene-d10 | 0.4         | 0.25         | 62           |      | 30 (20)    | 150 (139) |
|               |                       | Fluoranthene-d10        | 0.4         | 0.35         | 87           |      | 30 (54)    | 150 (157) |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.29         | 74           |      | 30 (27)    | 130 (154) |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.34         | 85           |      | 30 (30)    | 130 (155) |
|               |                       | Terphenyl-d14           | 0.4         | 0.48         | 120          |      | 30 (54)    | 130 (175) |
| Q2842-02      | RMW-02B-66.3-081225   | 2-Methylnaphthalene-d10 | 0.4         | 0.30         | 76           |      | 30 (20)    | 150 (139) |
|               |                       | Fluoranthene-d10        | 0.4         | 0.39         | 97           |      | 30 (54)    | 150 (157) |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.33         | 83           |      | 30 (27)    | 130 (154) |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.33         | 83           |      | 30 (30)    | 130 (155) |
|               |                       | Terphenyl-d14           | 0.4         | 0.49         | 122          |      | 30 (54)    | 130 (175) |
| Q2842-02DL    | RMW-02B-66.3-081225DL | 2-Methylnaphthalene-d10 | 0.4         | 0.32         | 80           |      | 30 (20)    | 150 (139) |
|               |                       | Fluoranthene-d10        | 0.4         | 0.45         | 113          |      | 30 (54)    | 150 (157) |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.36         | 90           |      | 30 (27)    | 130 (154) |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.36         | 90           |      | 30 (30)    | 130 (155) |
|               |                       | Terphenyl-d14           | 0.4         | 0.55         | 138          | *    | 30 (54)    | 130 (175) |
| Q2842-03      | MW-17B-55.5-081225    | 2-Methylnaphthalene-d10 | 0.4         | 0.29         | 72           |      | 30 (20)    | 150 (139) |
|               |                       | Fluoranthene-d10        | 0.4         | 0.39         | 97           |      | 30 (54)    | 150 (157) |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.31         | 77           |      | 30 (27)    | 130 (154) |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.31         | 76           |      | 30 (30)    | 130 (155) |
|               |                       | Terphenyl-d14           | 0.4         | 0.53         | 132          | *    | 30 (54)    | 130 (175) |
| Q2842-04MS    | MW-17B-55.5-081225MS  | 2-Methylnaphthalene-d10 | 0.4         | 0.31         | 77           |      | 30 (20)    | 150 (139) |
|               |                       | Fluoranthene-d10        | 0.4         | 0.38         | 94           |      | 30 (54)    | 150 (157) |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.33         | 83           |      | 30 (27)    | 130 (154) |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.32         | 81           |      | 30 (30)    | 130 (155) |
|               |                       | Terphenyl-d14           | 0.4         | 0.47         | 117          |      | 30 (54)    | 130 (175) |
| Q2842-05MSD   | MW-17B-55.5-081225MSD | 2-Methylnaphthalene-d10 | 0.4         | 0.30         | 76           |      | 30 (20)    | 150 (139) |
|               |                       | Fluoranthene-d10        | 0.4         | 0.37         | 93           |      | 30 (54)    | 150 (157) |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.32         | 79           |      | 30 (27)    | 130 (154) |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.32         | 81           |      | 30 (30)    | 130 (155) |
|               |                       | Terphenyl-d14           | 0.4         | 0.47         | 117          |      | 30 (54)    | 130 (175) |
| Q2842-06      | MW-06-6.5-081225      | 2-Methylnaphthalene-d10 | 0.4         | 0.26         | 66           |      | 30 (20)    | 150 (139) |
|               |                       | Fluoranthene-d10        | 0.4         | 0.36         | 89           |      | 30 (54)    | 150 (157) |
|               |                       | Nitrobenzene-d5         | 0.4         | 0.30         | 75           |      | 30 (27)    | 130 (154) |
|               |                       | 2-Fluorobiphenyl        | 0.4         | 0.35         | 87           |      | 30 (30)    | 130 (155) |
|               |                       | Terphenyl-d14           | 0.4         | 0.43         | 108          |      | 30 (54)    | 130 (175) |

**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q2842

**Analytical Method:** SW8270-Modified

**Client:** JACOBS Engineering Group, Inc.

**DataFile:** BN037605.D

| Parameter      | Spike      | Sample<br>Result  | Result               | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low     | Limits<br>High | RPD |
|----------------|------------|-------------------|----------------------|-------|-----|-------------|-----|-------------|---------|----------------|-----|
| Lab Sample ID: | Q2842-04MS | Client Sample ID: | MW-17B-55.5-081225MS |       |     |             |     |             |         |                |     |
| 1,4-Dioxane    | 0.43       | 2.90              | 3.00                 | ug/L  | 23  |             |     |             | 20 (10) | 160 (175)      |     |



**Matrix Spike/Matrix Spike Duplicate Summary**

**SW-846**

**SDG No.:** Q2842

**Analytical Method:** SW8270-Modified

**Client:** JACOBS Engineering Group, Inc.

**DataFile:** BN037606.D

| Parameter      | Spike       | Sample<br>Result  | Result                | Units | Rec | Rec<br>Qual | RPD | RPD<br>Qual | Low     | Limits<br>High | RPD     |
|----------------|-------------|-------------------|-----------------------|-------|-----|-------------|-----|-------------|---------|----------------|---------|
| Lab Sample ID: | Q2842-05MSD | Client Sample ID: | MW-17B-55.5-081225MSD |       |     |             |     |             |         |                |         |
| 1,4-Dioxane    | 0.42        | 2.90              | 3.00                  | ug/L  | 24  |             | 4   |             | 20 (10) | 160 (175)      | 20 (20) |

## Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

SDG No.: Q2842

Analytical Method: 8270-Modified

Client: JACOBS Engineering Group, Inc.

DataFile: BN037630.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Limits  |           | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|---------|-----------|-----|
|               |             |       |        |      |     |     |      | Qual | Low     | High      |     |
| PB169286BS    | 1,4-Dioxane | 0.4   | 0.30   | ug/L | 75  |     |      |      | 20 (65) | 160 (116) |     |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169286BL

Lab Name: Alliance

Contract: JAC005

Lab Code: ACE

SDG NO.: Q2842

Lab File ID: BN037619.D

Lab Sample ID: PB169286BL

Instrument ID: BNA\_N

Date Extracted: 08/18/2025

Matrix: (soil/water) Water

Date Analyzed: 08/20/2025

Level: (low/med) LOW

Time Analyzed: 04:50

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES, MS AND MSD:

| EPA<br>SAMPLE NO.     | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED |
|-----------------------|------------------|----------------|------------------|
| PB169286BS            | PB169286BS       | BN037630.D     | 08/20/2025       |
| RMW-03B-90.4-081225   | Q2842-01         | BN037602.D     | 08/19/2025       |
| RMW-02B-66.3-081225   | Q2842-02         | BN037603.D     | 08/19/2025       |
| MW-17B-55.5-081225    | Q2842-03         | BN037604.D     | 08/19/2025       |
| MW-17B-55.5-081225MS  | Q2842-04MS       | BN037605.D     | 08/19/2025       |
| MW-17B-55.5-081225MSD | Q2842-05MSD      | BN037606.D     | 08/19/2025       |
| MW-06-6.5-081225      | Q2842-06         | BN037607.D     | 08/19/2025       |

COMMENTS: \_\_\_\_\_

\_\_\_\_\_



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BN037576.D  
Instrument ID: BNA\_N

Contract: JAC005  
SDG NO.: Q2842  
DFTPP Injection Date: 08/12/2025  
DFTPP Injection Time: 15:05

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 100                  |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.6 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 7.1                  |
| 365 | Greater than 1% of mass 198        | 3.9                  |
| 441 | Present, but less than mass 443    | 87.2                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 16.2 (19.2) 2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO. | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC0.1        | SSTDICC0.1       | BN037578.D     | 08/12/2025       | 16:26            |
| SSTDICC0.2        | SSTDICC0.2       | BN037579.D     | 08/12/2025       | 17:03            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN037580.D     | 08/12/2025       | 17:39            |
| SSTDICC0.8        | SSTDICC0.8       | BN037581.D     | 08/12/2025       | 18:16            |
| SSTDICC1.6        | SSTDICC1.6       | BN037582.D     | 08/12/2025       | 18:52            |
| SSTDICC3.2        | SSTDICC3.2       | BN037583.D     | 08/12/2025       | 19:29            |
| SSTDICC5.0        | SSTDICC5.0       | BN037584.D     | 08/12/2025       | 20:05            |



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BN037599.D  
Instrument ID: BNA\_N

Contract: JAC005  
SDG NO.: Q2842  
DFTPP Injection Date: 08/19/2025  
DFTPP Injection Time: 10:00

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.0 ( 0.0 ) 1        |
| 69  | Mass 69 relative abundance         | 100                  |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.5 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.9                  |
| 365 | Greater than 1% of mass 198        | 4                    |
| 441 | Present, but less than mass 443    | 80.4                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 17.9 (18.3) 2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO.     | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-----------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4            | SSTDCCC0.4       | BN037600.D     | 08/19/2025       | 10:39            |
| RMW-03B-90.4-081225   | Q2842-01         | BN037602.D     | 08/19/2025       | 11:52            |
| RMW-02B-66.3-081225   | Q2842-02         | BN037603.D     | 08/19/2025       | 12:28            |
| MW-17B-55.5-081225    | Q2842-03         | BN037604.D     | 08/19/2025       | 13:04            |
| MW-17B-55.5-081225MS  | Q2842-04MS       | BN037605.D     | 08/19/2025       | 13:40            |
| MW-17B-55.5-081225MSD | Q2842-05MSD      | BN037606.D     | 08/19/2025       | 14:17            |
| MW-06-6.5-081225      | Q2842-06         | BN037607.D     | 08/19/2025       | 14:53            |



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Alliance  
Lab Code: ACE  
Lab File ID: BN037617.D  
Instrument ID: BNA\_N

Contract: JAC005  
SDG NO.: Q2842  
DFTPP Injection Date: 08/20/2025  
DFTPP Injection Time: 03:35

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.4 ( 0.9 ) 1        |
| 69  | Mass 69 relative abundance         | 100                  |
| 70  | Less than 2.0% of mass 69          | 0.2 ( 0.6 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 6.8                  |
| 365 | Greater than 1% of mass 198        | 3.6                  |
| 441 | Present, but less than mass 443    | 79.0                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 14.9 ( 19 ) 2        |

1-Value is % mass 69

2-Value is % mass 442

THIS CHECK APPLIES TO THE FOLLOWING SAMPLES, MS, MSD, BLANKS, AND STANDARDS:

| EPA<br>SAMPLE NO.     | LAB<br>SAMPLE ID | LAB<br>FILE ID | DATE<br>ANALYZED | TIME<br>ANALYZED |
|-----------------------|------------------|----------------|------------------|------------------|
| SSTDCCC0.4            | SSTDCCC0.4       | BN037618.D     | 08/20/2025       | 04:14            |
| PB169286BL            | PB169286BL       | BN037619.D     | 08/20/2025       | 04:50            |
| RMW-03B-90.4-081225DL | Q2842-01DL       | BN037620.D     | 08/20/2025       | 05:27            |
| RMW-02B-66.3-081225DL | Q2842-02DL       | BN037621.D     | 08/20/2025       | 06:03            |
| PB169286BS            | PB169286BS       | BN037630.D     | 08/20/2025       | 11:25            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2842

Client ID : SSTDCCC0.4

Date Analyzed: 08/19/2025

Lab File ID: BN037600.D

Time Analyzed: 10:39

Instrument ID: BNA\_N

GC Column: ZB-GR ID: 0.25 (mm)

|                          | IS1 (DCB)<br>AREA # | RT #  | IS2 (NPT)<br>AREA # | RT #   | IS3 (ANT)<br>AREA # | RT #   |
|--------------------------|---------------------|-------|---------------------|--------|---------------------|--------|
| 12 HOUR STD              | 2628                | 7.717 | 6457                | 10.50  | 3216                | 14.34  |
| UPPER LIMIT              | 5256                | 8.217 | 12914               | 10.998 | 6432                | 14.844 |
| LOWER LIMIT              | 1314                | 7.217 | 3228.5              | 9.998  | 1608                | 13.844 |
| EPA SAMPLE NO.           |                     |       |                     |        |                     |        |
| 01 RMW-03B-90.4-081225   | 1956                | 7.72  | 4779                | 10.50  | 2382                | 14.35  |
| 02 MW-17B-55.5-081225    | 2101                | 7.72  | 4983                | 10.50  | 2519                | 14.35  |
| 03 MW-17B-55.5-081225MS  | 2023                | 7.72  | 4765                | 10.50  | 2380                | 14.35  |
| 04 MW-17B-55.5-081225MSD | 2022                | 7.72  | 4839                | 10.50  | 2406                | 14.34  |
| 05 MW-06-6.5-081225      | 2139                | 7.72  | 5184                | 10.50  | 2604                | 14.35  |
| 06 RMW-02B-66.3-081225   | 2003                | 7.72  | 4852                | 10.50  | 2452                | 14.35  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2842

Client ID: SSTDCCC0.4

Date Analyzed: 08/19/2025

Lab File ID: BN037600.D

Time Analyzed: 10:39

Instrument ID: BNA\_N

GC Column: ZB-GR ID: 0.25 (mm)

|                          | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|--------------------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD              | 6293                | 17.086 | 5356                | 21.267 | 5379                | 23.504 |
| UPPER LIMIT              | 12586               | 17.586 | 10712               | 21.767 | 10758               | 24.004 |
| LOWER LIMIT              | 3146.5              | 16.586 | 2678                | 20.767 | 2689.5              | 23.004 |
| EPA SAMPLE NO.           |                     |        |                     |        |                     |        |
| 01 RMW-03B-90.4-081225   | 5089                | 17.09  | 4467                | 21.27  | 3954                | 23.50  |
| 02 MW-17B-55.5-081225    | 5311                | 17.09  | 4640                | 21.27  | 4122                | 23.51  |
| 03 MW-17B-55.5-081225MS  | 4922                | 17.09  | 4507                | 21.27  | 3909                | 23.51  |
| 04 MW-17B-55.5-081225MSD | 5009                | 17.09  | 4561                | 21.27  | 3935                | 23.50  |
| 05 MW-06-6.5-081225      | 5518                | 17.09  | 4981                | 21.27  | 4415                | 23.51  |
| 06 RMW-02B-66.3-081225   | 5058                | 17.09  | 4260                | 21.27  | 3745                | 23.50  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.



8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2842

Client ID : SSTDCCC0.4

Date Analyzed: 08/20/2025

Lab File ID: BN037618.D

Time Analyzed: 04:14

Instrument ID: BNA\_N

GC Column: ZB-GR ID: 0.25 (mm)

|                          | IS1 (DCB)<br>AREA # | RT # | IS2 (NPT)<br>AREA # | RT #   | IS3 (ANT)<br>AREA # | RT #   |
|--------------------------|---------------------|------|---------------------|--------|---------------------|--------|
| 12 HOUR STD              | 2622                | 7.71 | 6166                | 10.50  | 3094                | 14.35  |
| UPPER LIMIT              | 5244                | 8.21 | 12332               | 10.998 | 6188                | 14.845 |
| LOWER LIMIT              | 1311                | 7.21 | 3083                | 9.998  | 1547                | 13.845 |
| EPA SAMPLE NO.           |                     |      |                     |        |                     |        |
| 01 PB169286BL            | 2323                | 7.71 | 5229                | 10.50  | 2344                | 14.35  |
| 02 PB169286BS            | 2389                | 7.71 | 5616                | 10.49  | 2629                | 14.35  |
| 03 RMW-02B-66.3-081225DL | 1938                | 7.71 | 4467                | 10.50  | 2275                | 14.35  |
| 04 RMW-03B-90.4-081225DL | 2332                | 7.71 | 5464                | 10.50  | 2692                | 14.35  |

IS1 (DCB) = 1,4-Dichlorobenzene-d4

IS2 (NPT) = Naphthalene-d8

IS3 (ANT) = Acenaphthene-d10

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.

8C

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q2842

Client ID: SSTDCCC0.4

Date Analyzed: 08/20/2025

Lab File ID: BN037618.D

Time Analyzed: 04:14

Instrument ID: BNA\_N

GC Column: ZB-GR ID: 0.25 (mm)

|                          | IS4 (PHN)<br>AREA # | RT #   | IS5 (CRY)<br>AREA # | RT #   | IS6 (PRY)<br>AREA # | RT #   |
|--------------------------|---------------------|--------|---------------------|--------|---------------------|--------|
| 12 HOUR STD              | 6113                | 17.086 | 5494                | 21.268 | 5322                | 23.499 |
| UPPER LIMIT              | 12226               | 17.586 | 10988               | 21.768 | 10644               | 23.999 |
| LOWER LIMIT              | 3056.5              | 16.586 | 2747                | 20.768 | 2661                | 22.999 |
| EPA SAMPLE NO.           |                     |        |                     |        |                     |        |
| 01 PB169286BL            | 4466                | 17.09  | 3733                | 21.27  | 3552                | 23.50  |
| 02 PB169286BS            | 5040                | 17.09  | 4175                | 21.27  | 3780                | 23.50  |
| 03 RMW-02B-66.3-081225DL | 4809                | 17.09  | 3968                | 21.27  | 3640                | 23.50  |
| 04 RMW-03B-90.4-081225DL | 5770                | 17.09  | 4774                | 21.27  | 4470                | 23.50  |

IS4 (PHN) = Phenanthrene-d10

IS5 (CRY) = Chrysene-d12

IS6 (PRY) = Perylene-d12

AREA UPPER LIMIT = +100% of internal standard area

AREA LOWER LIMIT = -50% of internal standard area

RT UPPER LIMIT = +0.50 minutes of internal standard RT

RT UPPER LIMIT = -0.50 minutes of internal standard RT

# Column used to flag values outside QC limits with an asterisk.

\* Values outside of QC limits.



# SAMPLE DATA

## Report of Analysis

|                    |                                           |                 |                |
|--------------------|-------------------------------------------|-----------------|----------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: | 08/12/25       |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  | 08/12/25       |
| Client Sample ID:  | RMW-03B-90.4-081225                       | SDG No.:        | Q2842          |
| Lab Sample ID:     | Q2842-01                                  | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                                | % Solid:        | 0              |
| Sample Wt/Vol:     | 910      Units:    mL                     | Final Vol:      | 1000      uL   |
| Soil Aliquot Vol:  | uL                                        | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted :    N                           | Level :         | LOW            |
| Injection Volume : | GPC Factor :    1.0                       | GPC Cleanup :   | N      PH :    |
| Prep Method :      |                                           |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037602.D        | 1         | 08/18/25 08:41 | 08/19/25 11:52 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |                     |            |          |
| 123-91-1                  | 1,4-Dioxane             | 6.80  | E         | 0.070               | 0.22       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |                     |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.26  |           | 30 (20) - 150 (139) | 66%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.38  |           | 30 (54) - 150 (157) | 94%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.30  |           | 30 (27) - 130 (154) | 74%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.35  |           | 30 (30) - 130 (155) | 87%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.49  |           | 30 (54) - 130 (175) | 123%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |                     |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1960  | 7.717     |                     |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4780  | 10.498    |                     |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2380  | 14.345    |                     |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5090  | 17.086    |                     |            |          |
| 1719-03-5                 | Chrysene-d12            | 4470  | 21.268    |                     |            |          |
| 1520-96-3                 | Perylene-d12            | 3950  | 23.502    |                     |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037602.D  
 Acq On : 19 Aug 2025 11:52  
 Operator : RC/JU  
 Sample : Q2842-01  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RMW-03B-90.4-081225

Quant Time: Aug 20 01:24:54 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

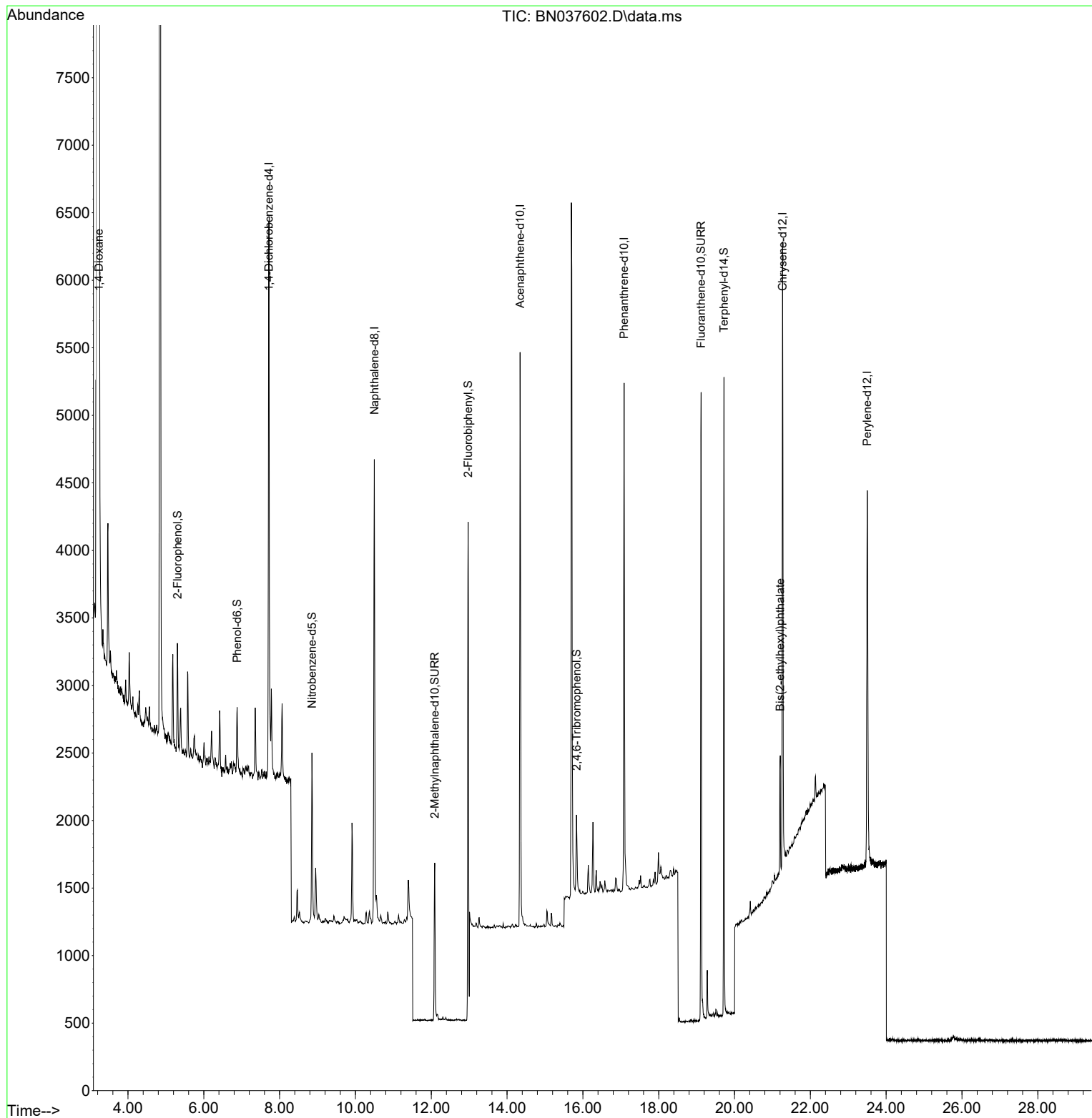
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 1956     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 4779     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2382     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 5089     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 4467     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.502 | 264  | 3954     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 582      | 0.131 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 403      | 0.076 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 999      | 0.297 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.090 | 152  | 1716     | 0.264 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 359      | 0.344 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 4796     | 0.348 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.118 | 212  | 5055     | 0.378 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.722 | 244  | 4519     | 0.492 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.232  | 88   | 11619    | 6.209 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 895      | 0.145 | ng    | # 98     |
| -----                         |        |      |          |       |       |          |

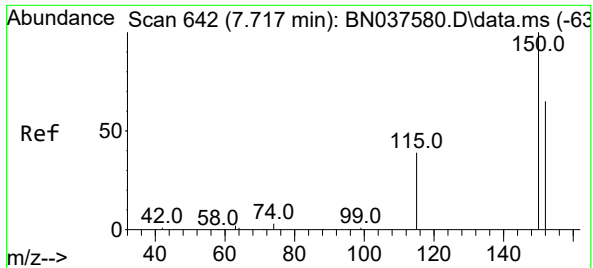
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037602.D  
Acq On : 19 Aug 2025 11:52  
Operator : RC/JU  
Sample : Q2842-01  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225

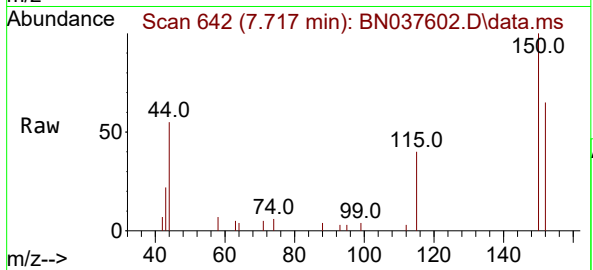
Quant Time: Aug 20 01:24:54 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration



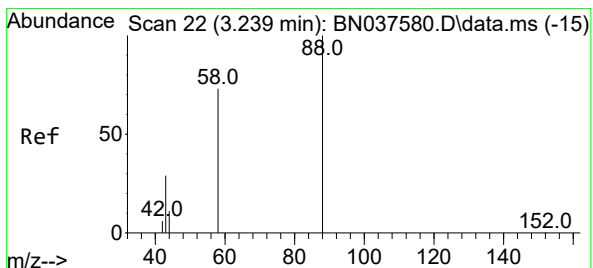
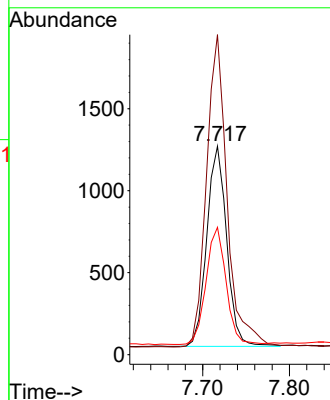
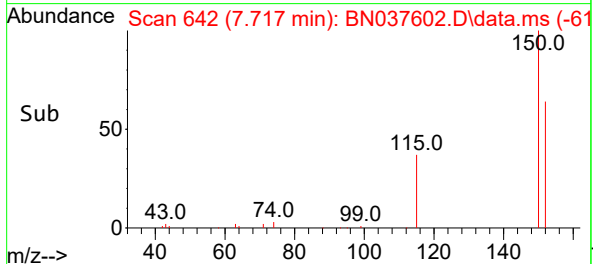


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.717 min Scan# 64  
 Delta R.T. 0.000 min  
 Lab File: BN037602.D  
 Acq: 19 Aug 2025 11:52

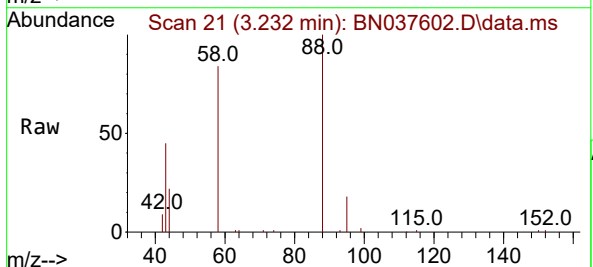
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RMW-03B-90.4-081225



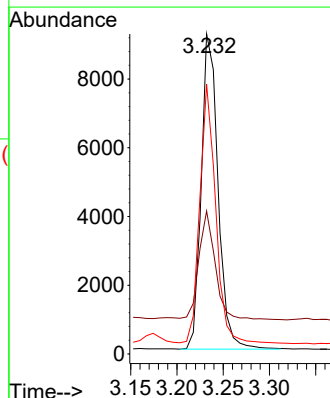
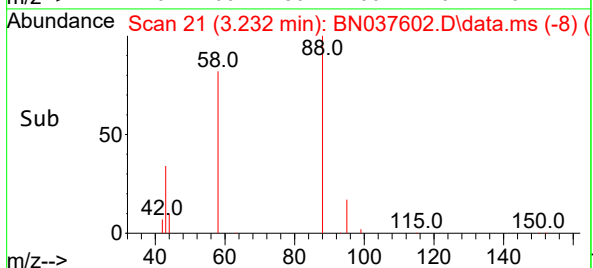
Tgt Ion: 152 Resp: 1956  
 Ion Ratio Lower Upper  
 152 100  
 150 153.5 122.2 183.4  
 115 61.1 49.8 74.6

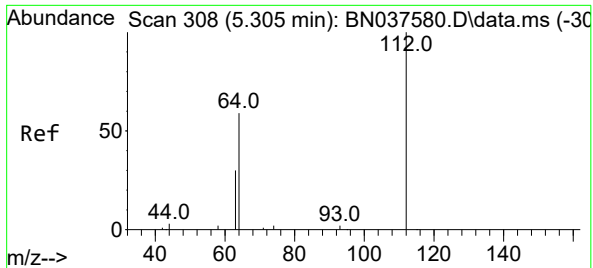


#2  
 1,4-Dioxane  
 Concen: 6.209 ng  
 RT: 3.232 min Scan# 21  
 Delta R.T. -0.007 min  
 Lab File: BN037602.D  
 Acq: 19 Aug 2025 11:52



Tgt Ion: 88 Resp: 11619  
 Ion Ratio Lower Upper  
 88 100  
 43 33.2 25.8 38.6  
 58 77.0 61.2 91.8

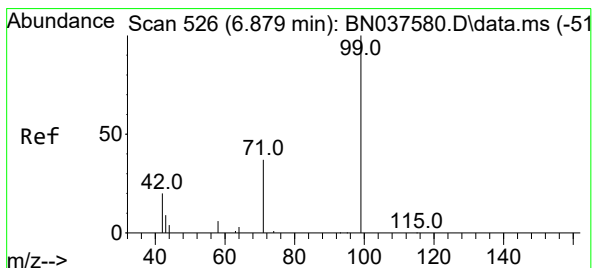
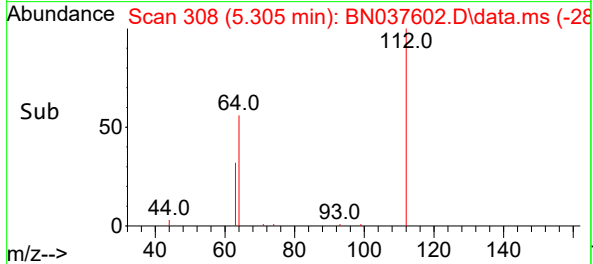
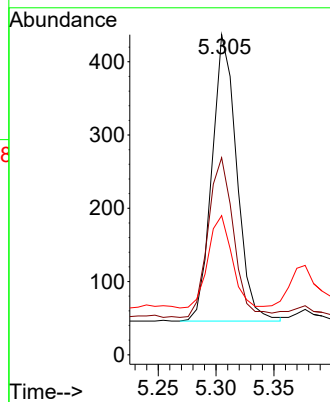
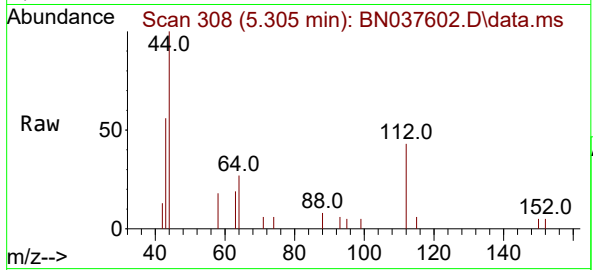




#4  
2-Fluorophenol  
Concen: 0.131 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

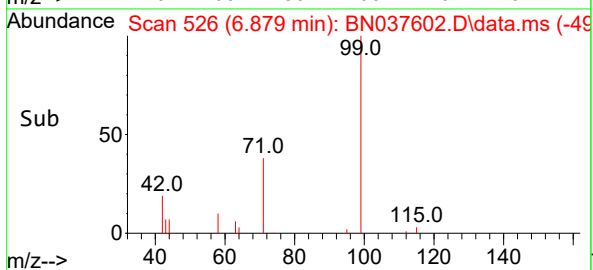
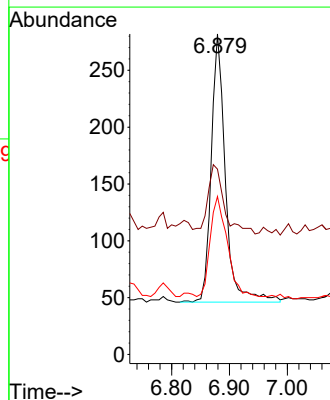
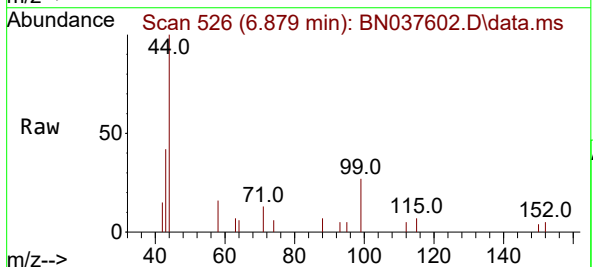
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225

Tgt Ion:112 Resp: 582  
Ion Ratio Lower Upper  
112 100  
64 57.2 44.9 67.3  
63 31.1 23.4 35.2

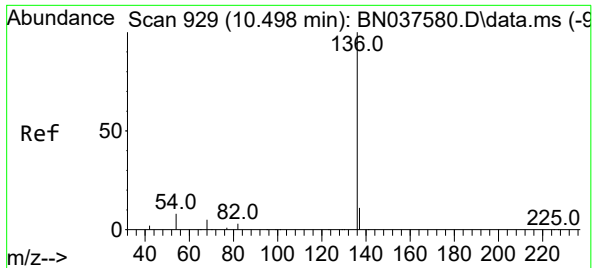


#5  
Phenol-d6  
Concen: 0.076 ng  
RT: 6.879 min Scan# 526  
Delta R.T. 0.000 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

Tgt Ion: 99 Resp: 403  
Ion Ratio Lower Upper  
99 100  
42 29.8 18.5 27.7#  
71 46.9 28.6 42.8#



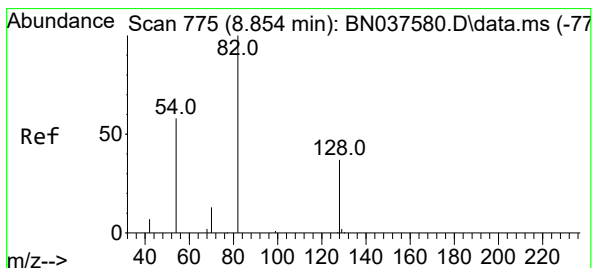
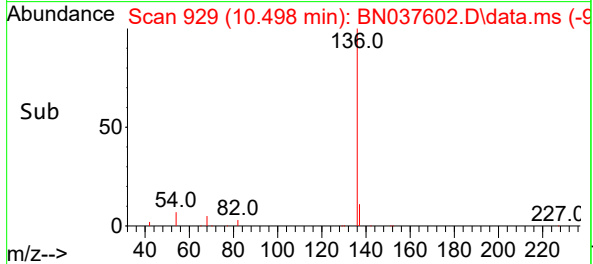
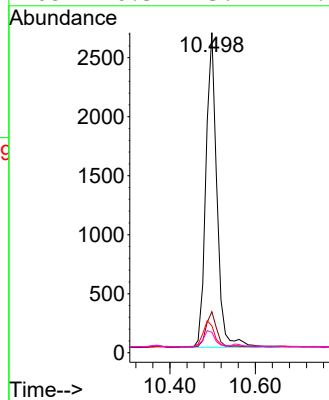
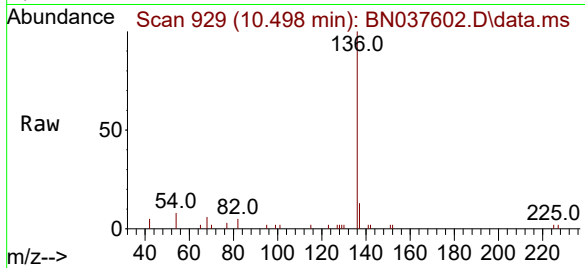




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

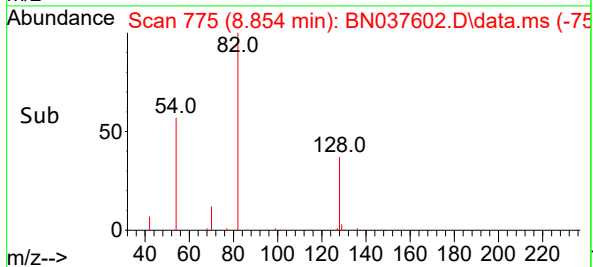
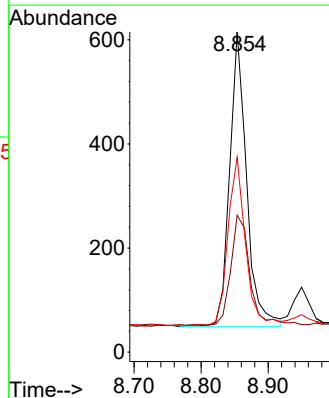
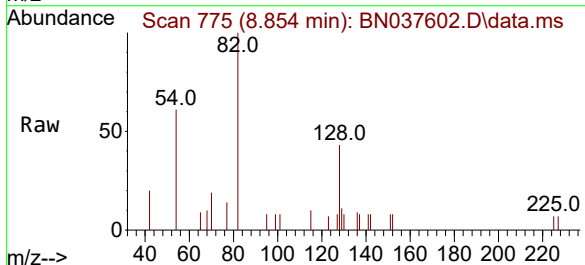
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225

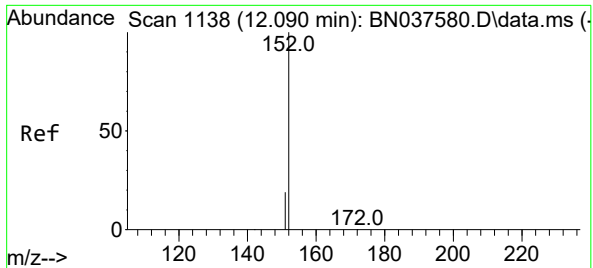
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4779  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.8  | 9.5   | 14.3  |
| 54       | 8.4   | 7.3   | 10.9  |
| 68       | 6.3   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.297 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 999   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.8  | 32.6  | 48.8  |
| 54       | 60.8  | 48.9  | 73.3  |

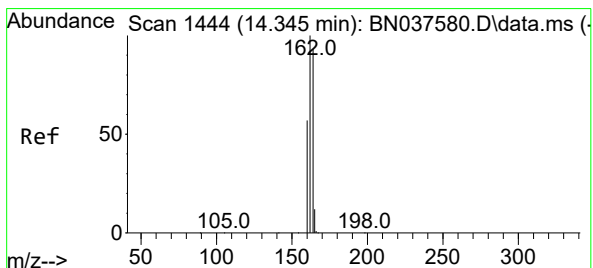
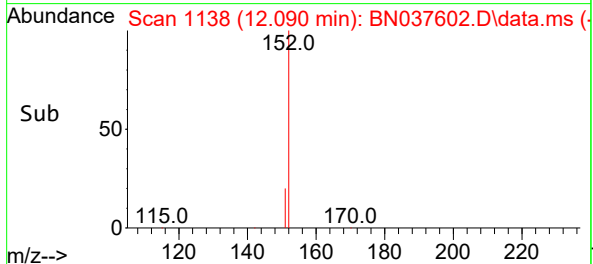
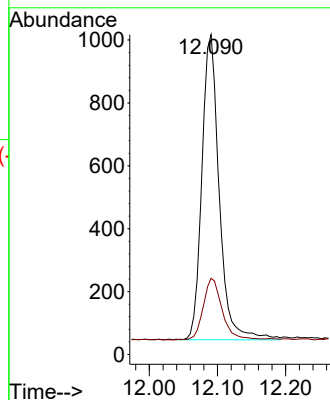
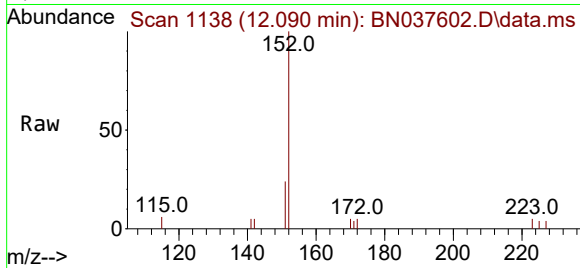




#11  
2-Methylnaphthalene-d10  
Concen: 0.264 ng  
RT: 12.090 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

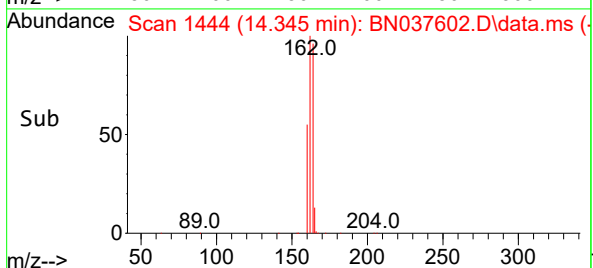
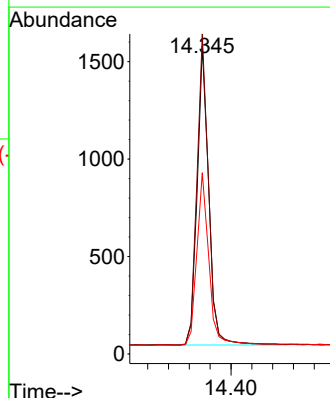
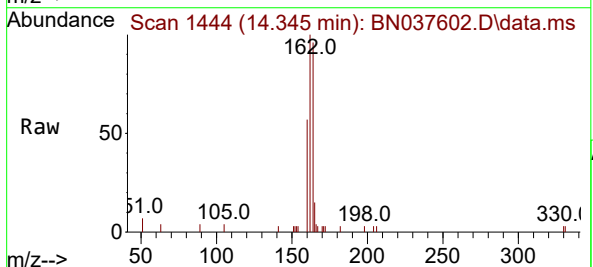
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225

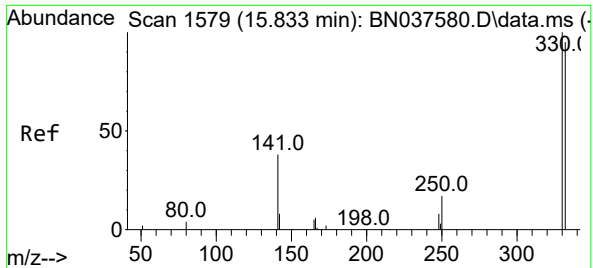
Tgt Ion:152 Resp: 1716  
Ion Ratio Lower Upper  
152 100  
151 21.8 17.3 25.9



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

Tgt Ion:164 Resp: 2382  
Ion Ratio Lower Upper  
164 100  
162 103.9 85.5 128.3  
160 58.9 49.5 74.3

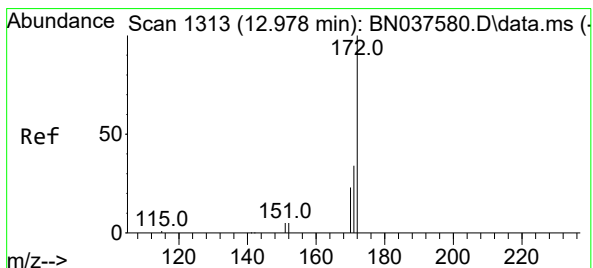
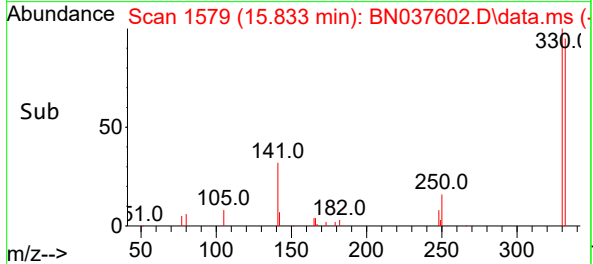
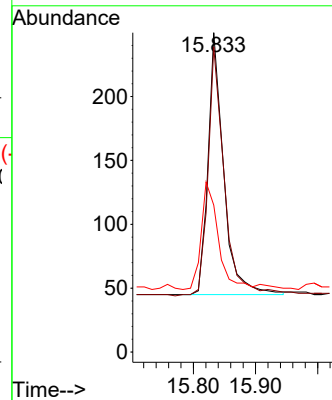
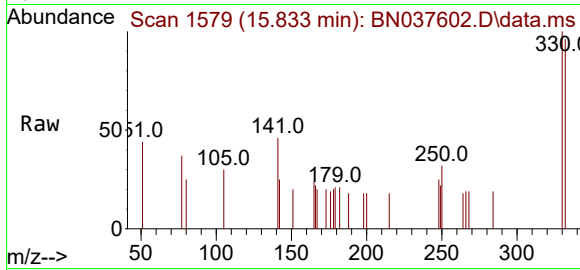




#14  
2,4,6-Tribromophenol  
Concen: 0.344 ng  
RT: 15.833 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

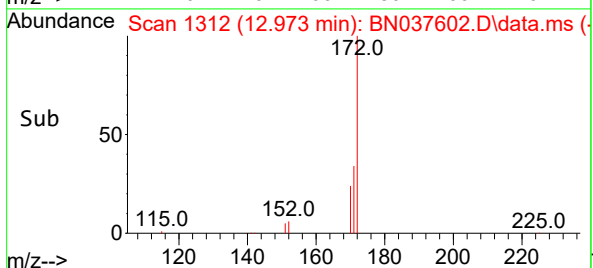
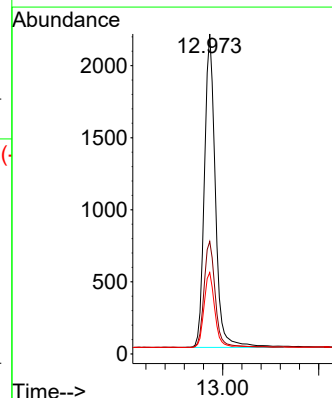
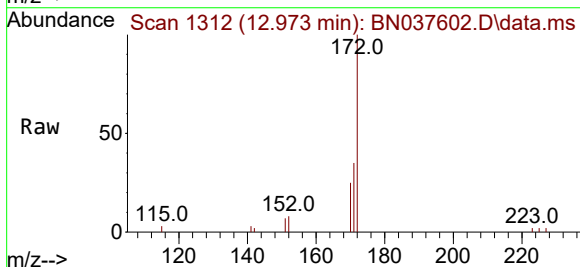
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225

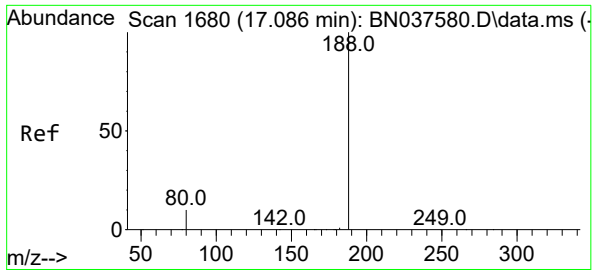
| Tgt Ion   | 330 | Resp | 359   |
|-----------|-----|------|-------|
| Ion Ratio | 100 |      |       |
| Lower     |     | 77.4 | 116.0 |
| Upper     |     | 46.3 |       |



#15  
2-Fluorobiphenyl  
Concen: 0.348 ng  
RT: 12.973 min Scan# 1312  
Delta R.T. -0.005 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

| Tgt Ion                                    | 172 | Resp | 4796 |
|--------------------------------------------|-----|------|------|
| Ion Ratio <td>100</td> <td></td> <td></td> | 100 |      |      |
| Lower                                      |     | 28.2 | 42.4 |
| Upper                                      |     | 19.2 | 28.8 |

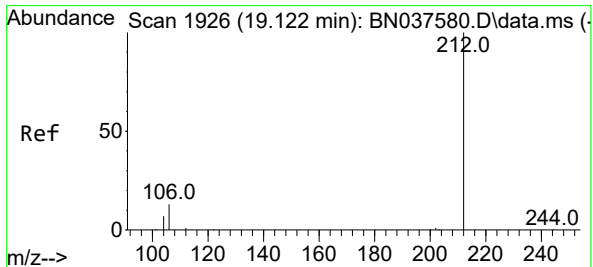
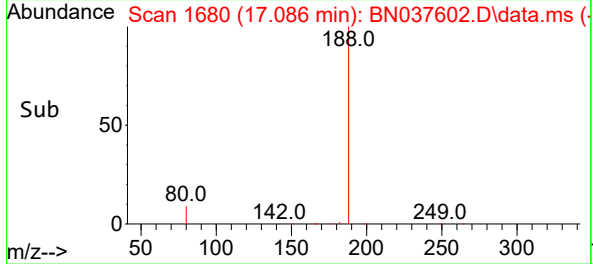
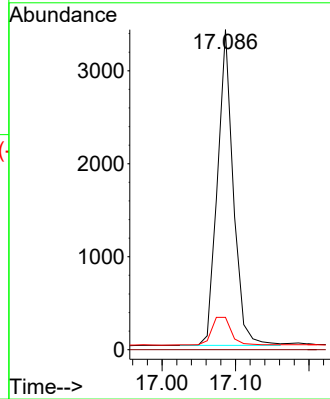
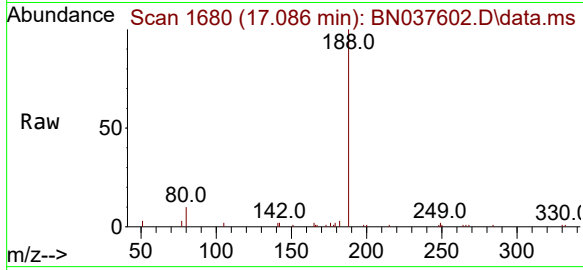




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.086 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

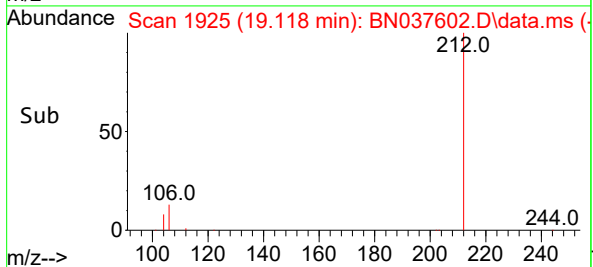
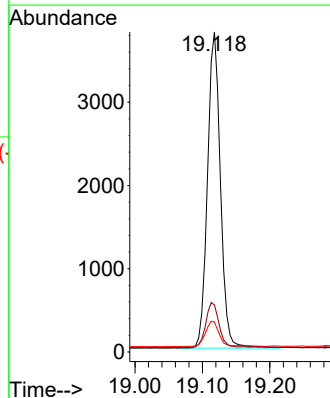
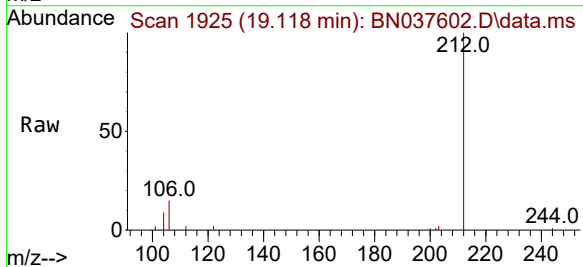
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225

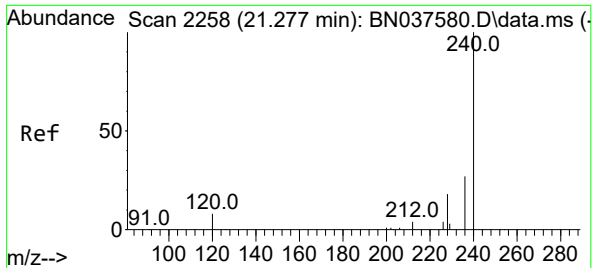
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 188     | 100   |       |       |
| 94      | 0.0   | 0.0   | 0.0   |
| 80      | 10.1  | 9.1   | 13.7  |



#27  
Fluoranthene-d10  
Concen: 0.378 ng  
RT: 19.118 min Scan# 1925  
Delta R.T. -0.005 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 14.9  | 11.5  | 17.3  |
| 104     | 8.3   | 6.6   | 9.8   |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037602.D

Acq: 19 Aug 2025 11:52

Instrument :

BNA\_N

ClientSampleId :

RMW-03B-90.4-081225

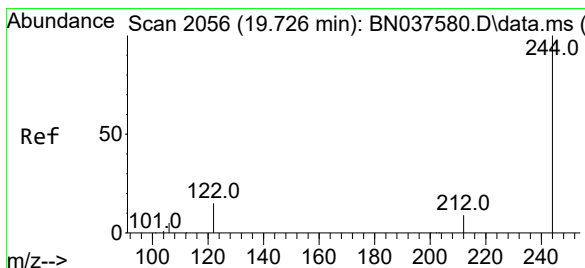
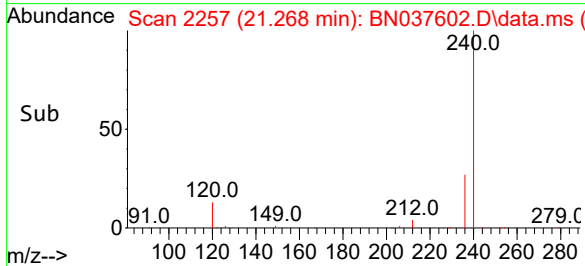
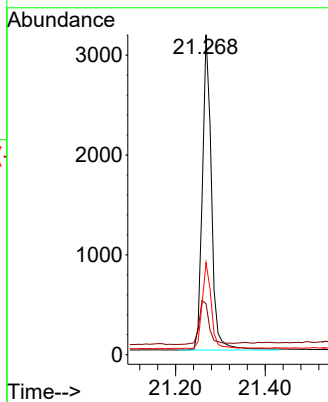
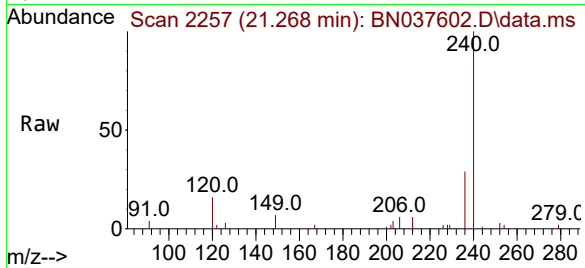
Tgt Ion:240 Resp: 4467

Ion Ratio Lower Upper

240 100

120 16.0 8.9 13.3#

236 28.7 22.6 33.8



#31

Terphenyl-d14

Concen: 0.492 ng

RT: 19.722 min Scan# 2055

Delta R.T. -0.005 min

Lab File: BN037602.D

Acq: 19 Aug 2025 11:52

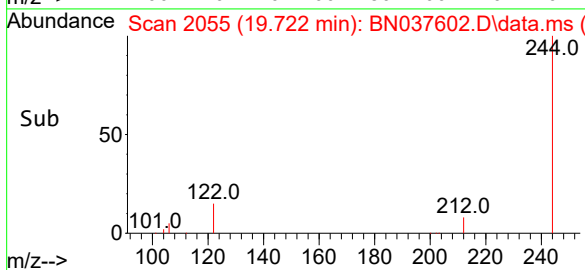
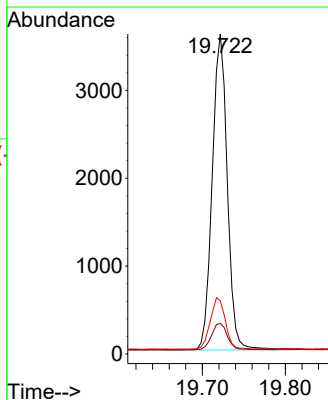
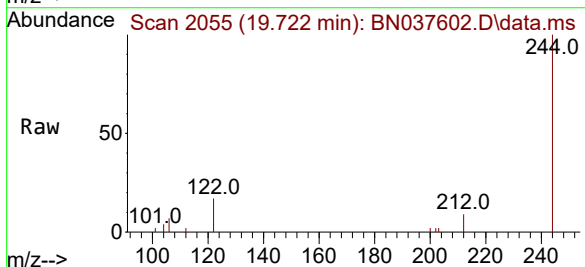
Tgt Ion:244 Resp: 4519

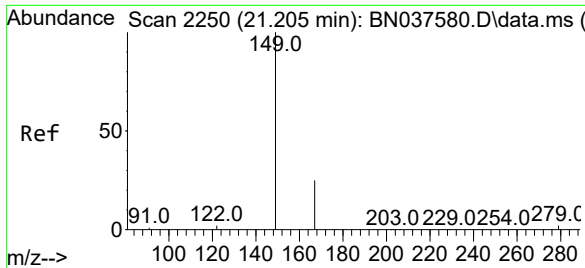
Ion Ratio Lower Upper

244 100

212 9.5 8.2 12.2

122 16.6 13.2 19.8

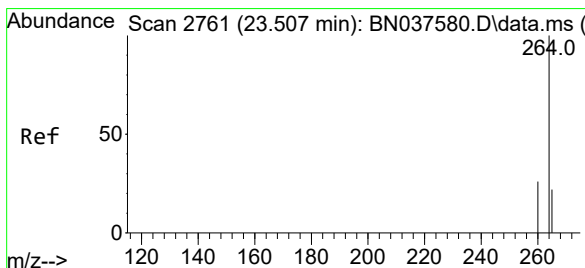
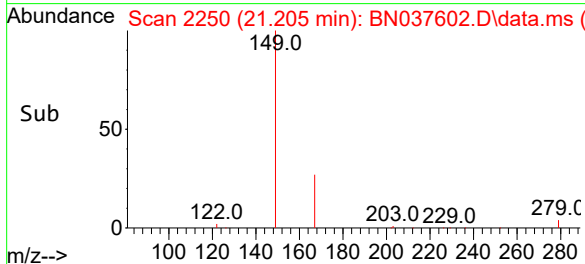
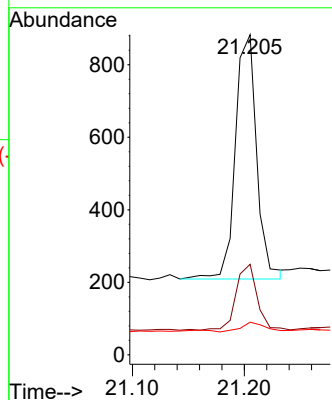
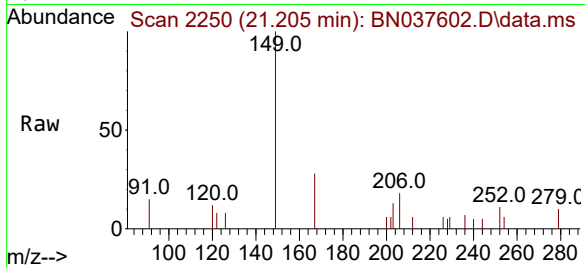




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.145 ng  
RT: 21.205 min Scan# 2119  
Delta R.T. 0.000 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

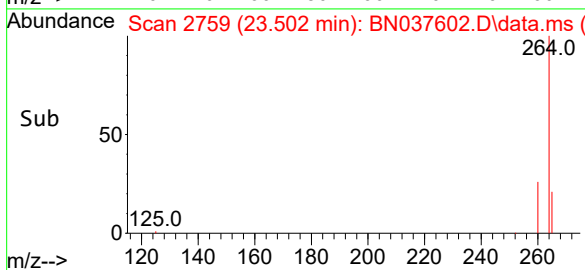
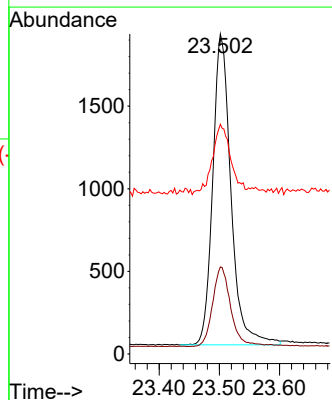
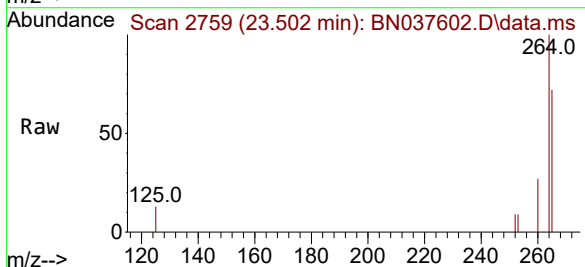
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225

Tgt Ion:149 Resp: 895  
Ion Ratio Lower Upper  
149 100  
167 26.7 20.5 30.7  
279 4.7 2.6 4.0#



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.502 min Scan# 2759  
Delta R.T. -0.006 min  
Lab File: BN037602.D  
Acq: 19 Aug 2025 11:52

Tgt Ion:264 Resp: 3954  
Ion Ratio Lower Upper  
264 100  
260 27.2 21.6 32.4  
265 71.8 48.2 72.4



## Report of Analysis

|                    |                                           |                 |                |
|--------------------|-------------------------------------------|-----------------|----------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: | 08/12/25       |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  | 08/12/25       |
| Client Sample ID:  | RMW-03B-90.4-081225DL                     | SDG No.:        | Q2842          |
| Lab Sample ID:     | Q2842-01DL                                | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                                | % Solid:        | 0              |
| Sample Wt/Vol:     | 910      Units:    mL                     | Final Vol:      | 1000      uL   |
| Soil Aliquot Vol:  | uL                                        | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted :    N                           | Level :         | LOW            |
| Injection Volume : | GPC Factor :    1.0                       | GPC Cleanup :   | N      PH :    |
| Prep Method :      |                                           |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037620.D        | 2         | 08/18/25 08:41 | 08/20/25 05:27 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |                     |            |          |
| 123-91-1                  | 1,4-Dioxane             | 6.60  | D         | 0.15                | 0.44       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |                     |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.25  |           | 30 (20) - 150 (139) | 62%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.35  |           | 30 (54) - 150 (157) | 87%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.29  |           | 30 (27) - 130 (154) | 74%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.34  |           | 30 (30) - 130 (155) | 85%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.48  |           | 30 (54) - 130 (175) | 120%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |                     |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2330  | 7.71      |                     |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5460  | 10.498    |                     |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2690  | 14.345    |                     |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5770  | 17.087    |                     |            |          |
| 1719-03-5                 | Chrysene-d12            | 4770  | 21.268    |                     |            |          |
| 1520-96-3                 | Perylene-d12            | 4470  | 23.496    |                     |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037620.D  
Acq On : 20 Aug 2025 05:27  
Operator : RC/JU  
Sample : Q2842-01DL 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225DL

Quant Time: Aug 20 06:13:53 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.710  | 152  | 2332     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 5464     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2692     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.087 | 188  | 5770     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 4774     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.496 | 264  | 4470     | 0.400 | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 333      | 0.063 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 219      | 0.034 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 567      | 0.147 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.086 | 152  | 922      | 0.124 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 210      | 0.178 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.968 | 172  | 2639     | 0.170 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.113 | 212  | 2639     | 0.174 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.717 | 244  | 2370     | 0.241 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.232  | 88   | 6690     | 2.999 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149  | 629      | 0.096 | ng    | 96       |

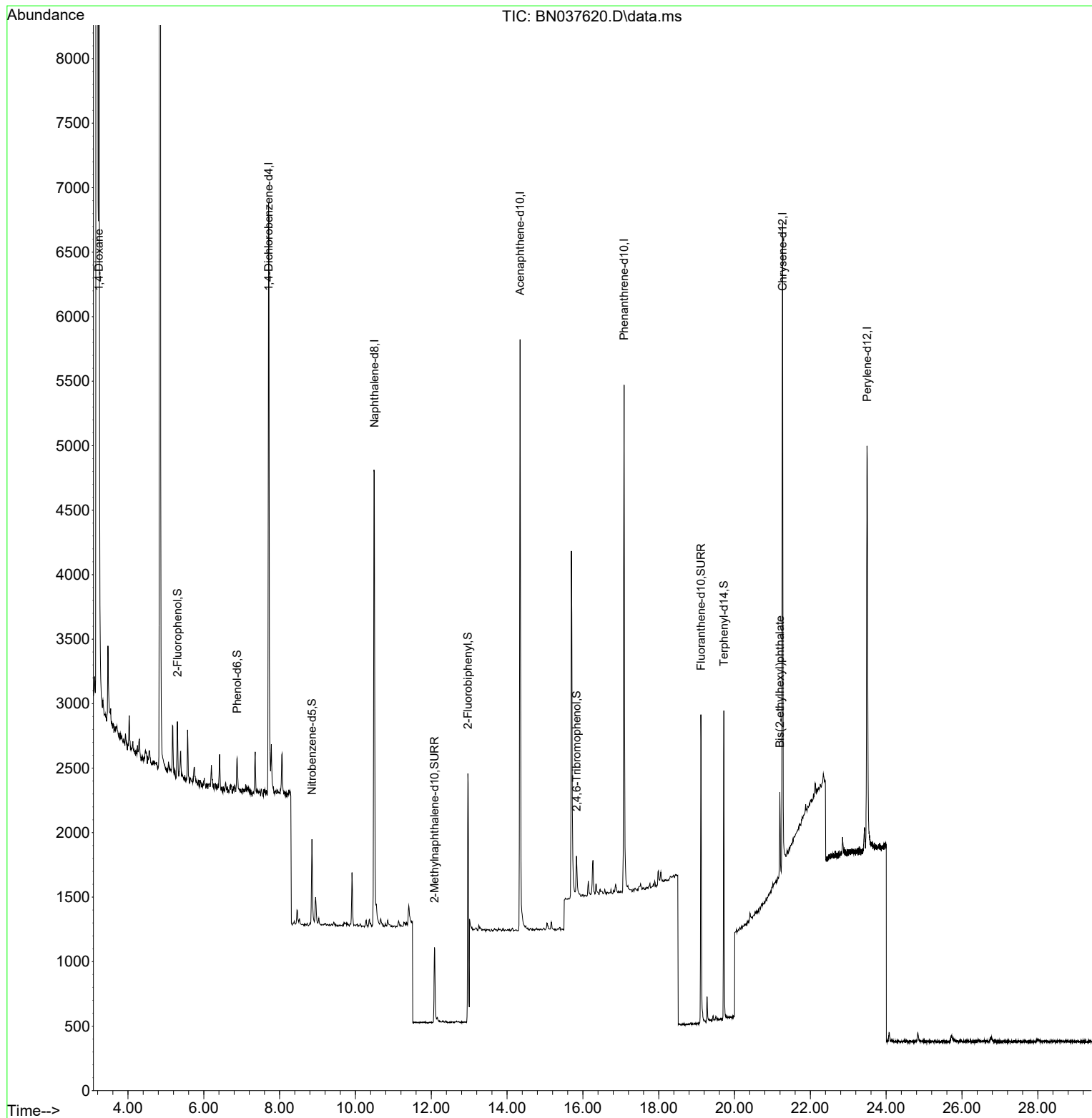
(#) = qualifier out of range (m) = manual integration (+) = signals summed

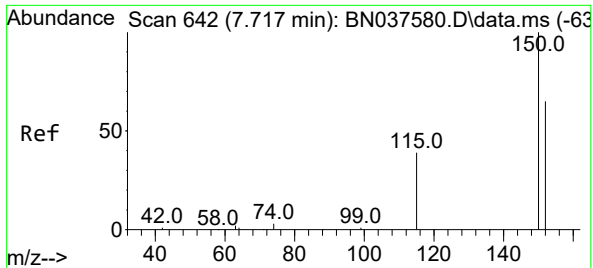


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037620.D  
Acq On : 20 Aug 2025 05:27  
Operator : RC/JU  
Sample : Q2842-01DL 2X  
Misc :  
ALS Vial : 21 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225DL

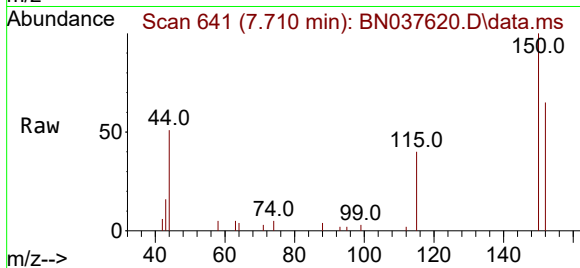
Quant Time: Aug 20 06:13:53 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration





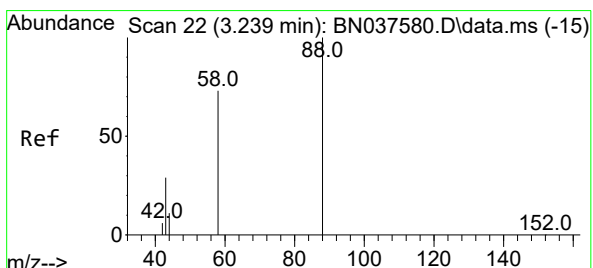
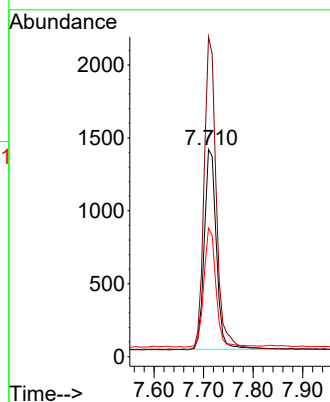
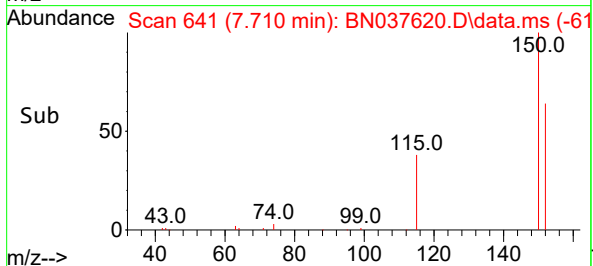
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.710 min Scan# 64  
 Delta R.T. -0.007 min  
 Lab File: BN037620.D  
 Acq: 20 Aug 2025 05:27

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RMW-03B-90.4-081225DL

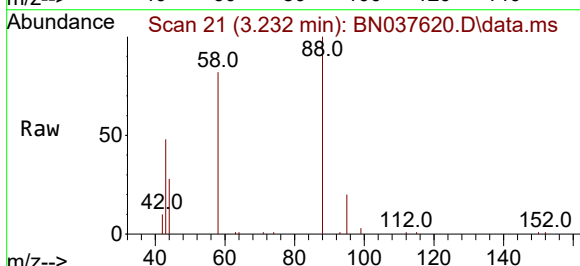


Tgt Ion: 152 Resp: 2332

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 154.4 | 122.2 | 183.4 |
| 115 | 62.1  | 49.8  | 74.6  |

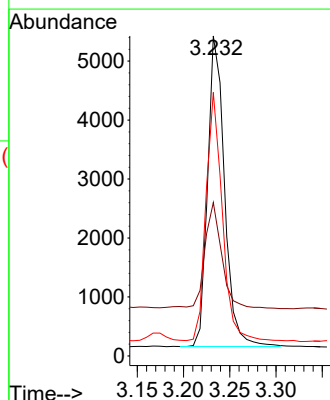
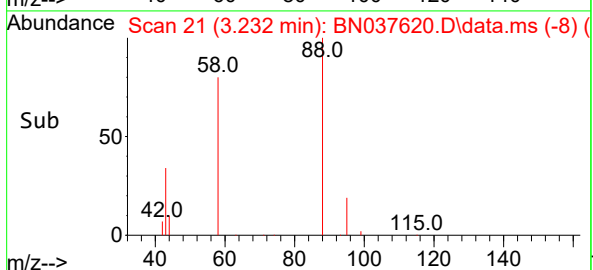


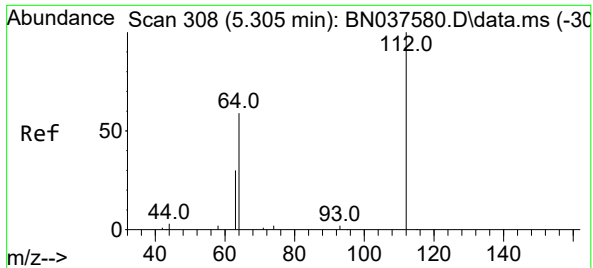
#2  
 1,4-Dioxane  
 Concen: 2.999 ng  
 RT: 3.232 min Scan# 21  
 Delta R.T. -0.007 min  
 Lab File: BN037620.D  
 Acq: 20 Aug 2025 05:27



Tgt Ion: 88 Resp: 6690

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 88  | 100   |       |       |
| 43  | 34.5  | 25.8  | 38.6  |
| 58  | 76.6  | 61.2  | 91.8  |





#4

2-Fluorophenol

Concen: 0.063 ng

RT: 5.305 min Scan# 308

Delta R.T. 0.000 min

Lab File: BN037620.D

Acq: 20 Aug 2025 05:27

Instrument :

BNA\_N

ClientSampleId :

RMW-03B-90.4-081225DL

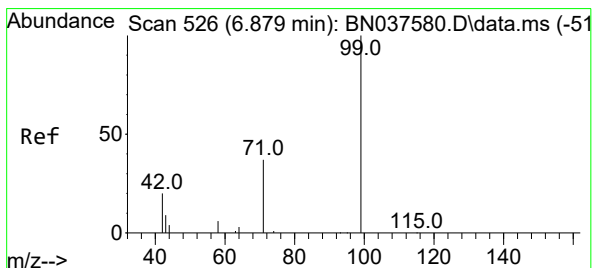
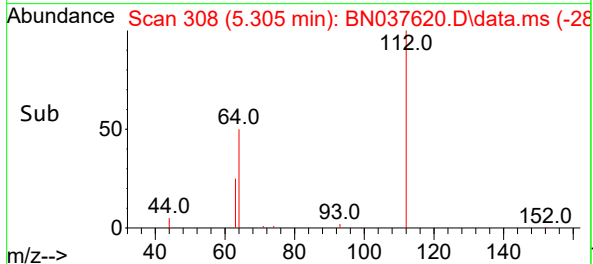
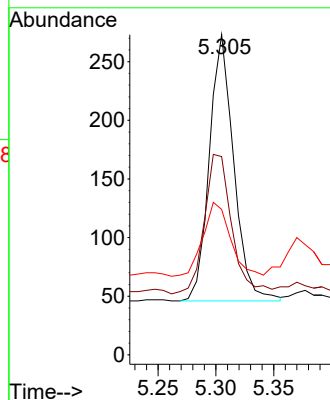
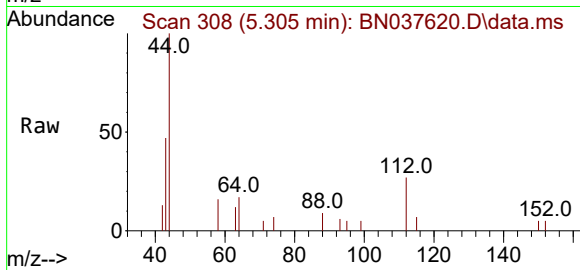
Tgt Ion:112 Resp: 333

Ion Ratio Lower Upper

112 100

64 58.6 44.9 67.3

63 31.8 23.4 35.2



#5

Phenol-d6

Concen: 0.034 ng

RT: 6.879 min Scan# 526

Delta R.T. 0.000 min

Lab File: BN037620.D

Acq: 20 Aug 2025 05:27

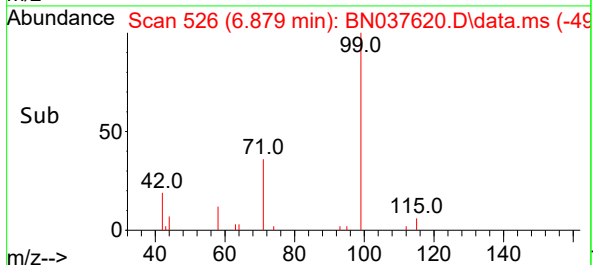
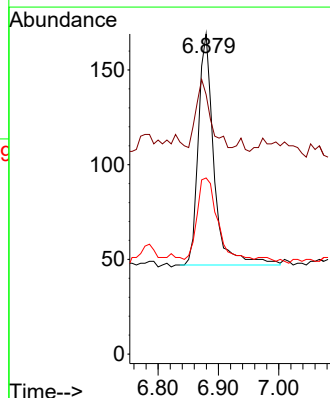
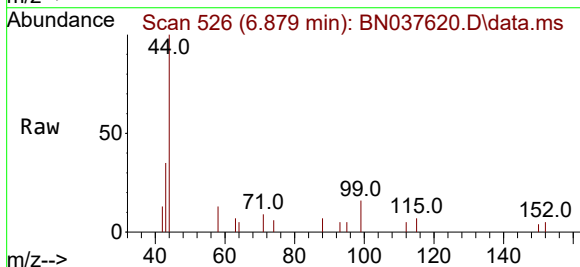
Tgt Ion: 99 Resp: 219

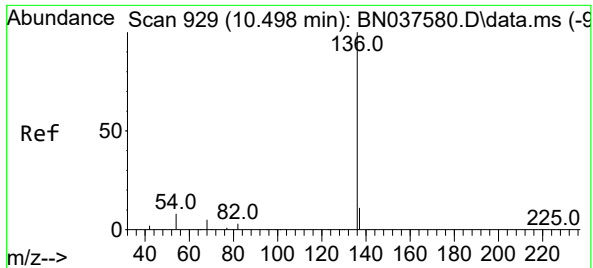
Ion Ratio Lower Upper

99 100

42 26.0 18.5 27.7

71 47.5 28.6 42.8#

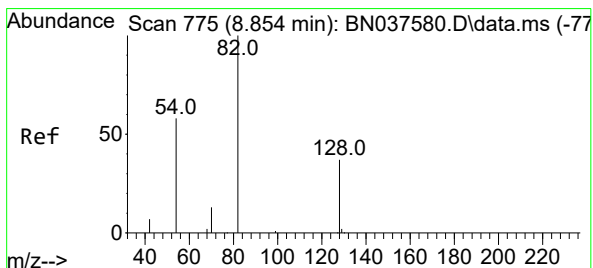
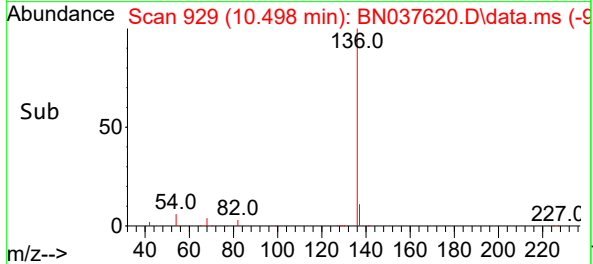
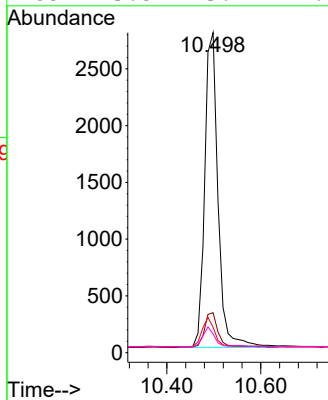
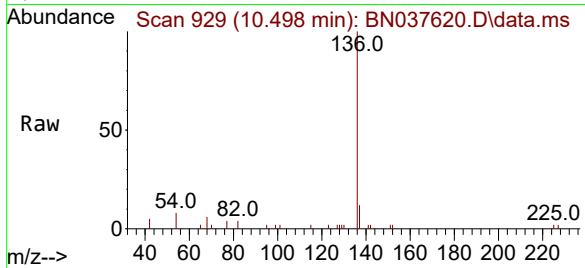




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037620.D  
Acq: 20 Aug 2025 05:27

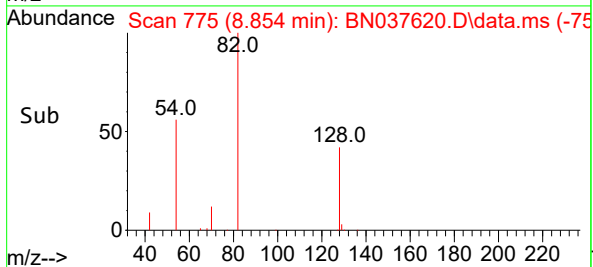
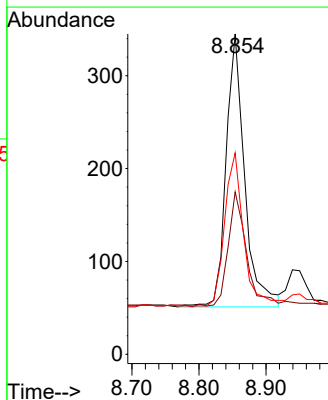
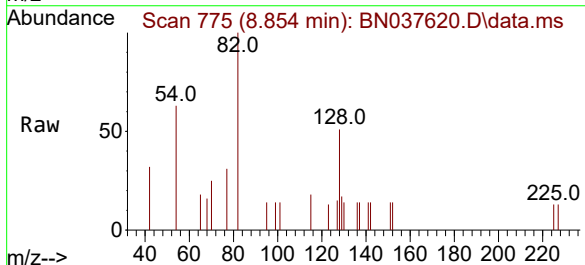
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225DL

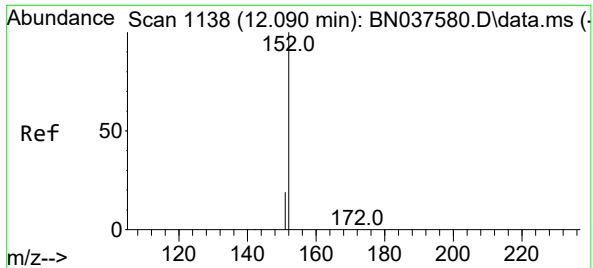
Tgt Ion:136 Resp: 5464  
Ion Ratio Lower Upper  
136 100  
137 12.5 9.5 14.3  
54 7.9 7.3 10.9  
68 5.8 5.1 7.7



#8  
Nitrobenzene-d5  
Concen: 0.147 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037620.D  
Acq: 20 Aug 2025 05:27

Tgt Ion: 82 Resp: 567  
Ion Ratio Lower Upper  
82 100  
128 50.7 32.6 48.8#  
54 62.9 48.9 73.3

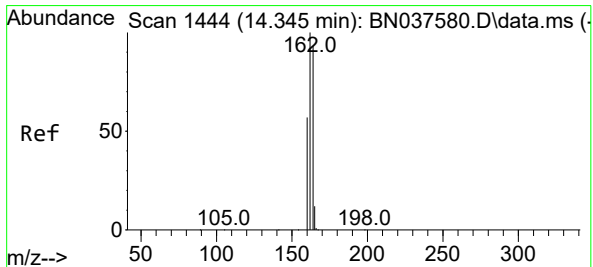
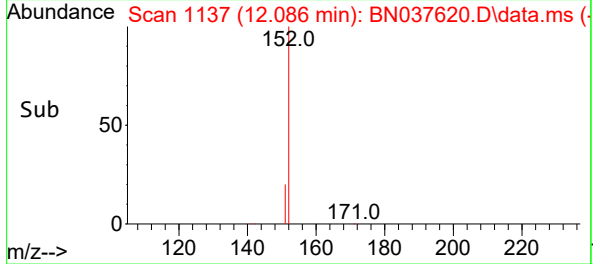
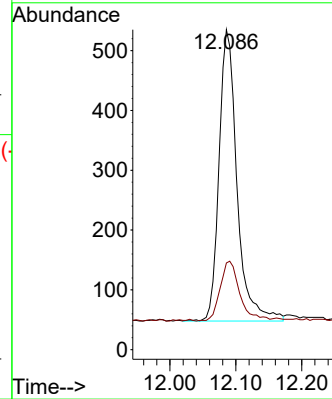
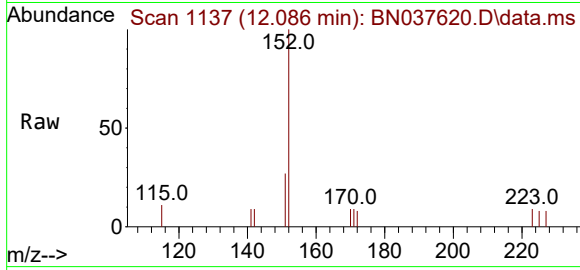




#11  
2-Methylnaphthalene-d10  
Concen: 0.124 ng  
RT: 12.086 min Scan# 1138  
Delta R.T. -0.005 min  
Lab File: BN037620.D  
Acq: 20 Aug 2025 05:27

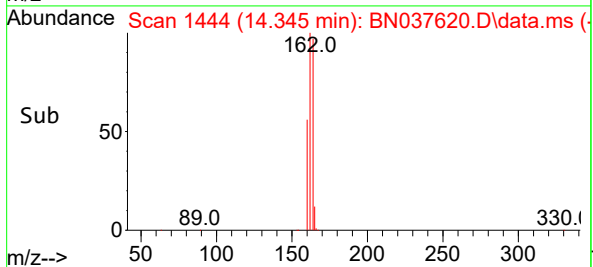
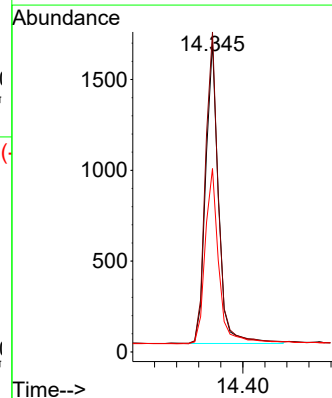
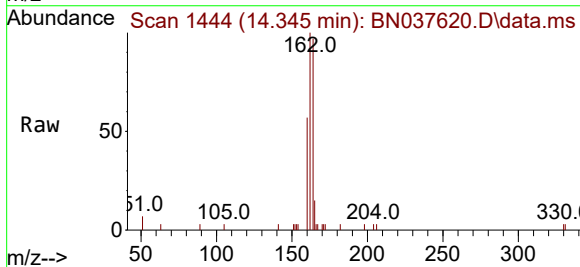
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225DL

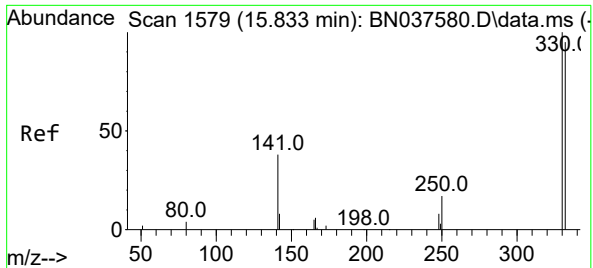
Tgt Ion:152 Resp: 922  
Ion Ratio Lower Upper  
152 100  
151 22.5 17.3 25.9



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037620.D  
Acq: 20 Aug 2025 05:27

Tgt Ion:164 Resp: 2692  
Ion Ratio Lower Upper  
164 100  
162 103.3 85.5 128.3  
160 59.2 49.5 74.3

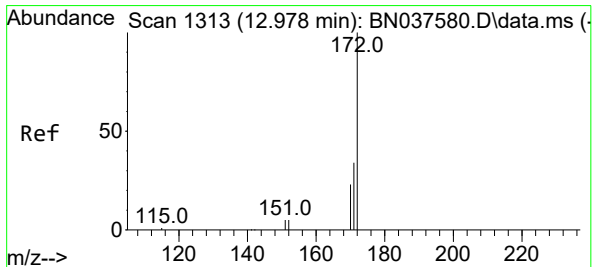
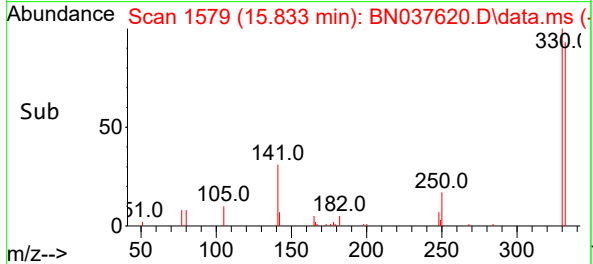
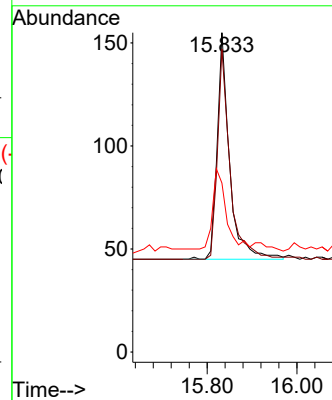
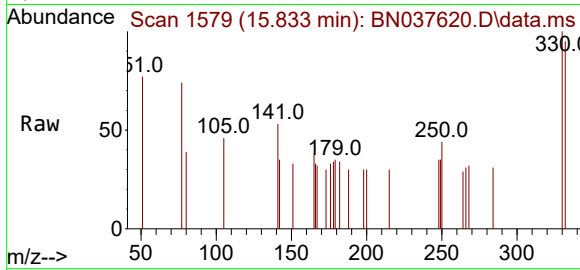




#14  
2,4,6-Tribromophenol  
Concen: 0.178 ng  
RT: 15.833 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN037620.D  
Acq: 20 Aug 2025 05:27

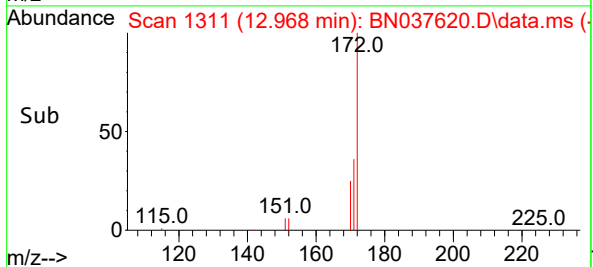
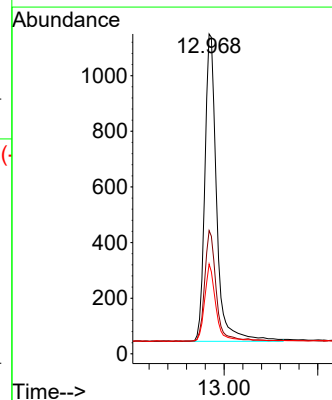
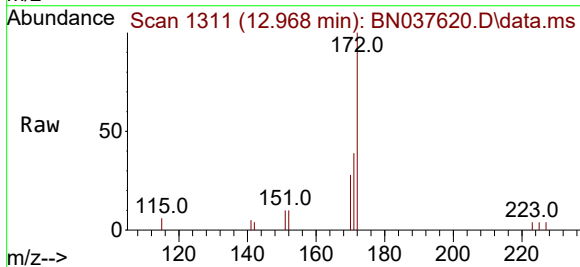
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225DL

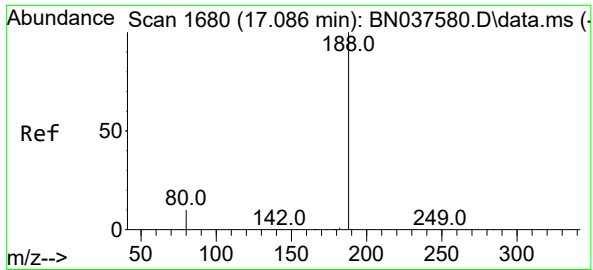
Tgt Ion:330 Resp: 210  
Ion Ratio Lower Upper  
330 100  
332 93.8 77.4 116.0  
141 38.1 30.9 46.3



#15  
2-Fluorobiphenyl  
Concen: 0.170 ng  
RT: 12.968 min Scan# 1311  
Delta R.T. -0.010 min  
Lab File: BN037620.D  
Acq: 20 Aug 2025 05:27

Tgt Ion:172 Resp: 2639  
Ion Ratio Lower Upper  
172 100  
171 38.5 28.2 42.4  
170 28.1 19.2 28.8

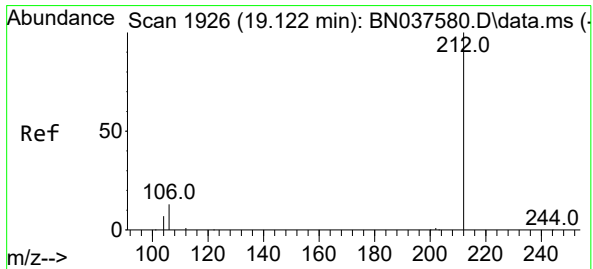
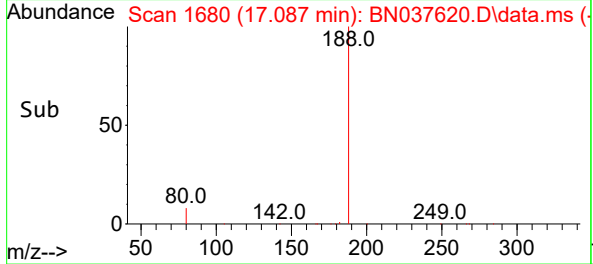
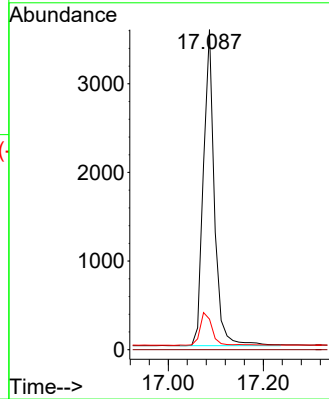
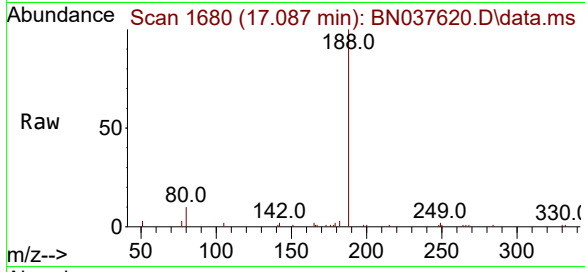




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.087 min Scan# 1680  
Delta R.T. 0.000 min  
Lab File: BN037620.D  
Acq: 20 Aug 2025 05:27

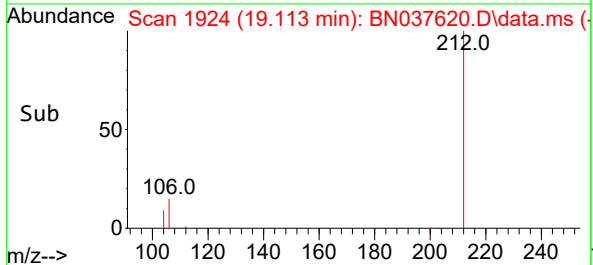
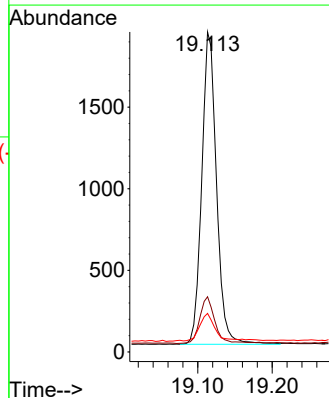
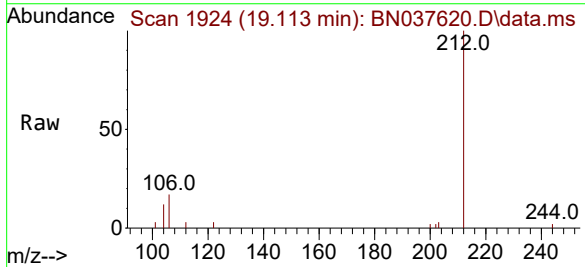
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225DL

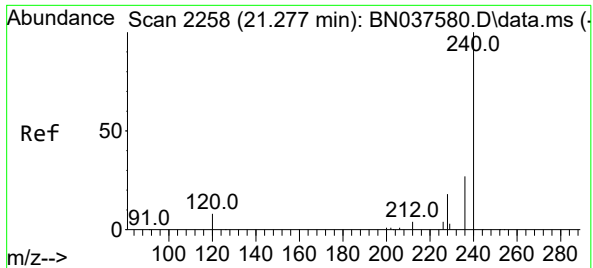
Tgt Ion:188 Resp: 5770  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.6 9.1 13.7



#27  
Fluoranthene-d10  
Concen: 0.174 ng  
RT: 19.113 min Scan# 1924  
Delta R.T. -0.009 min  
Lab File: BN037620.D  
Acq: 20 Aug 2025 05:27

Tgt Ion:212 Resp: 2639  
Ion Ratio Lower Upper  
212 100  
106 15.1 11.5 17.3  
104 9.0 6.6 9.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037620.D

Acq: 20 Aug 2025 05:27

Instrument :

BNA\_N

ClientSampleId :

RMW-03B-90.4-081225DL

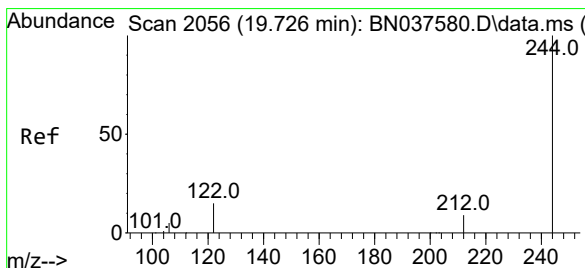
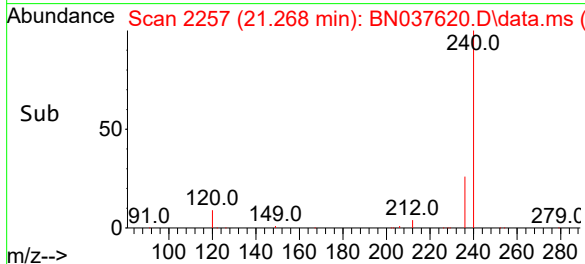
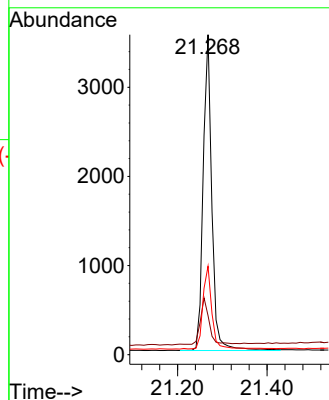
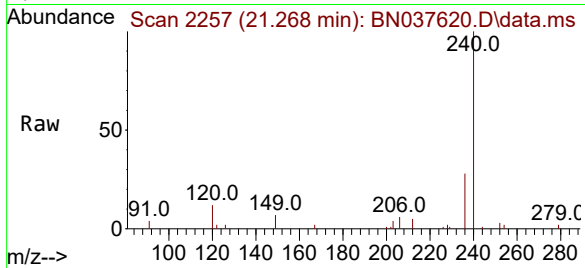
Tgt Ion:240 Resp: 4774

Ion Ratio Lower Upper

240 100

120 12.2 8.9 13.3

236 27.7 22.6 33.8



#31

Terphenyl-d14

Concen: 0.241 ng

RT: 19.717 min Scan# 2054

Delta R.T. -0.009 min

Lab File: BN037620.D

Acq: 20 Aug 2025 05:27

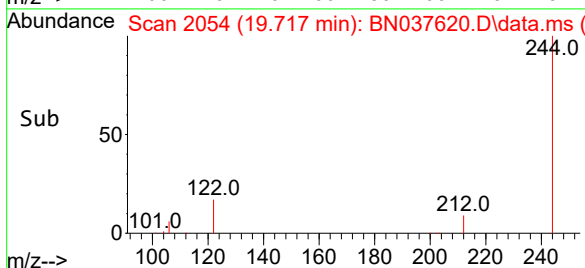
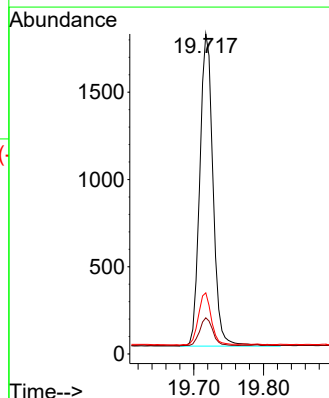
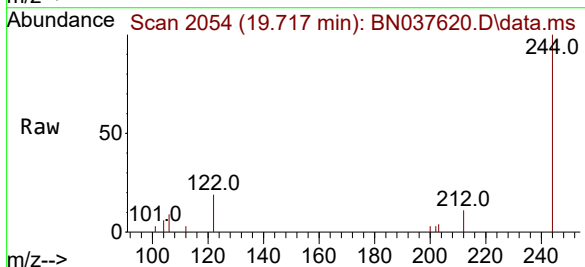
Tgt Ion:244 Resp: 2370

Ion Ratio Lower Upper

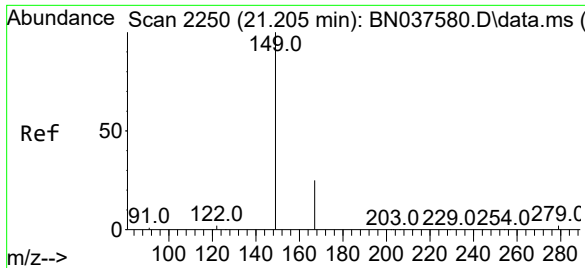
244 100

212 11.3 8.2 12.2

122 19.1 13.2 19.8



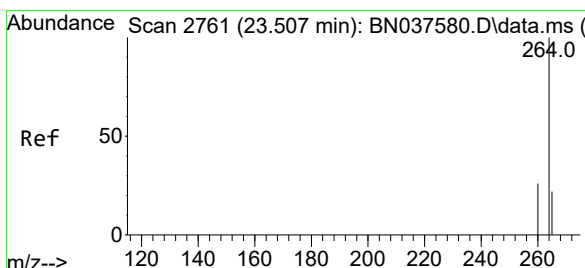
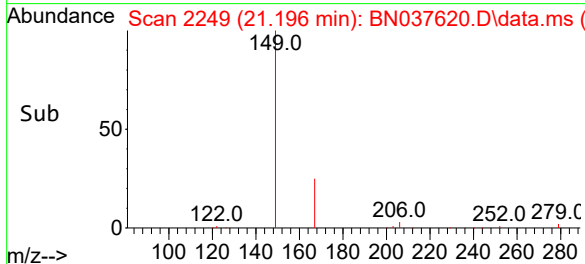
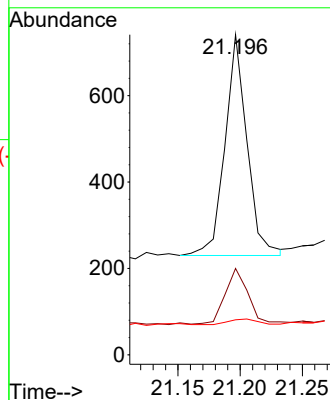
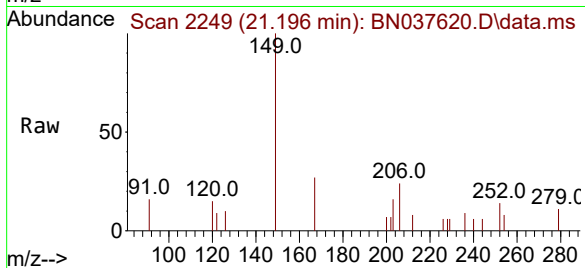




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.096 ng  
RT: 21.196 min Scan# 2119  
Delta R.T. -0.009 min  
Lab File: BN037620.D  
Acq: 20 Aug 2025 05:27

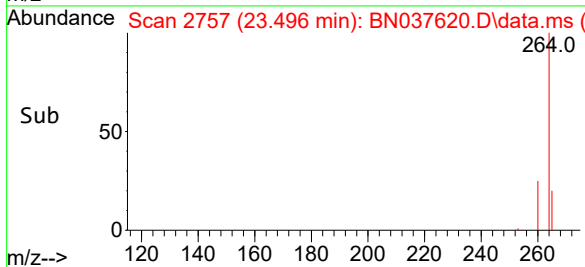
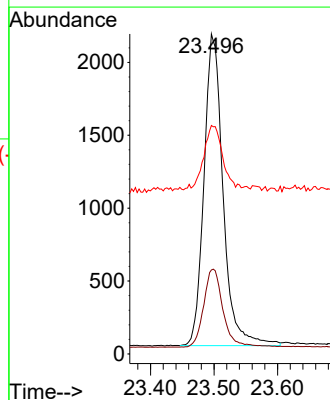
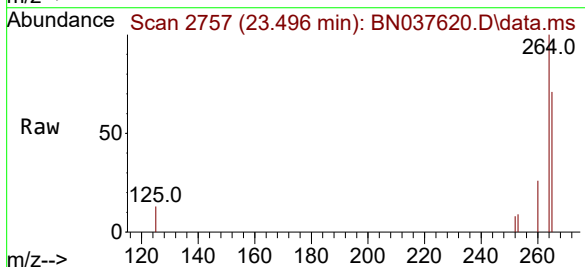
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-03B-90.4-081225DL

Tgt Ion:149 Resp: 629  
Ion Ratio Lower Upper  
149 100  
167 27.7 20.5 30.7  
279 3.2 2.6 4.0



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.496 min Scan# 2757  
Delta R.T. -0.011 min  
Lab File: BN037620.D  
Acq: 20 Aug 2025 05:27

Tgt Ion:264 Resp: 4470  
Ion Ratio Lower Upper  
264 100  
260 26.2 21.6 32.4  
265 71.4 48.2 72.4



### Report of Analysis

|                    |                                           |                 |                |
|--------------------|-------------------------------------------|-----------------|----------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: | 08/12/25       |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  | 08/12/25       |
| Client Sample ID:  | RMW-02B-66.3-081225                       | SDG No.:        | Q2842          |
| Lab Sample ID:     | Q2842-02                                  | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                                | % Solid:        | 0              |
| Sample Wt/Vol:     | 970 Units: mL                             | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  | uL                                        | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted : N                              | Level :         | LOW            |
| Injection Volume : | GPC Factor : 1.0                          | GPC Cleanup :   | N PH :         |
| Prep Method :      |                                           |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037603.D        | 1         | 08/18/25 08:41 | 08/19/25 12:28 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |                     |            |          |
| 123-91-1                  | 1,4-Dioxane             | 22.6  | E         | 0.070               | 0.21       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |                     |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.30  |           | 30 (20) - 150 (139) | 76%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.39  |           | 30 (54) - 150 (157) | 97%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.33  |           | 30 (27) - 130 (154) | 83%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.33  |           | 30 (30) - 130 (155) | 83%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.49  |           | 30 (54) - 130 (175) | 122%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |                     |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2000  | 7.717     |                     |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4850  | 10.498    |                     |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2450  | 14.345    |                     |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5060  | 17.087    |                     |            |          |
| 1719-03-5                 | Chrysene-d12            | 4260  | 21.268    |                     |            |          |
| 1520-96-3                 | Perylene-d12            | 3750  | 23.502    |                     |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037603.D  
 Acq On : 19 Aug 2025 12:28  
 Operator : RC/JU  
 Sample : Q2842-02  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RMW-02B-66.3-081225

Quant Time: Aug 20 01:25:09 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

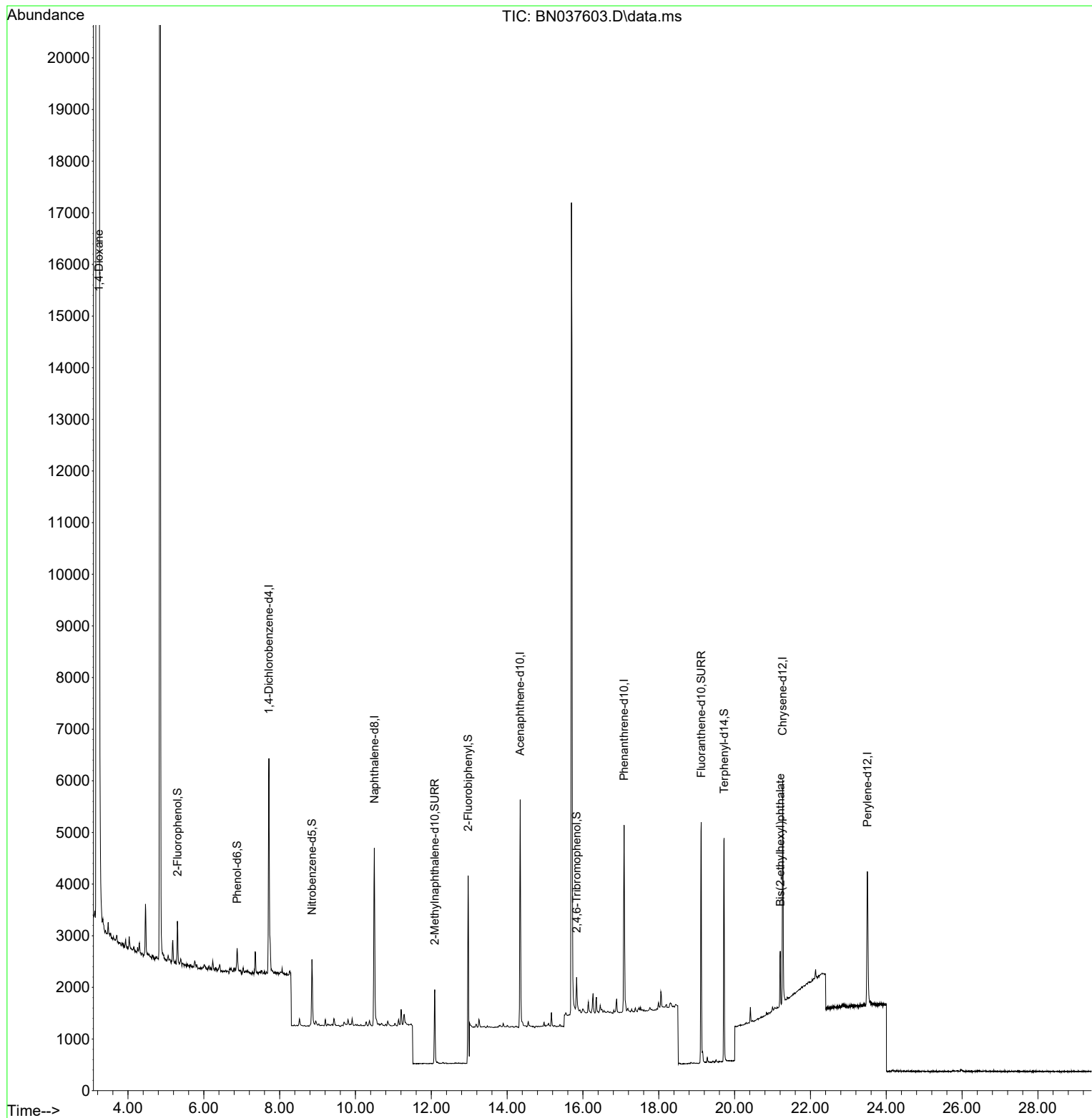
| Compound                      | R.T.   | QIon | Response | Conc   | Units | Dev(Min) |
|-------------------------------|--------|------|----------|--------|-------|----------|
| -----                         |        |      |          |        |       |          |
| Internal Standards            |        |      |          |        |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 2003     | 0.400  | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 4852     | 0.400  | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2452     | 0.400  | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.087 | 188  | 5058     | 0.400  | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 4260     | 0.400  | ng    | # 0.00   |
| 35) Perylene-d12              | 23.502 | 264  | 3745     | 0.400  | ng    | # 0.00   |
|                               |        |      |          |        |       |          |
| System Monitoring Compounds   |        |      |          |        |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 628      | 0.138  | ng    | 0.00     |
| 5) Phenol-d6                  | 6.880  | 99   | 423      | 0.077  | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 1127     | 0.330  | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.091 | 152  | 2003     | 0.304  | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 394      | 0.367  | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 4739     | 0.334  | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.118 | 212  | 5190     | 0.390  | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.722 | 244  | 4279     | 0.488  | ng    | 0.00     |
|                               |        |      |          |        |       |          |
| Target Compounds              |        |      |          |        |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.232  | 88   | 42068    | 21.952 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 1082     | 0.184  | ng    | 99       |
| -----                         |        |      |          |        |       |          |

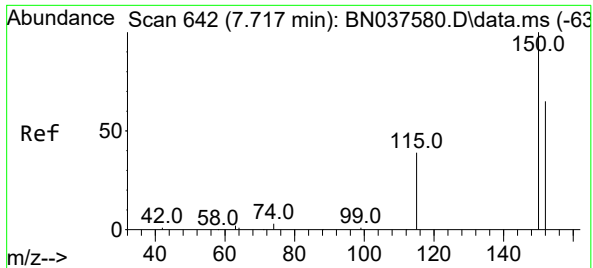
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037603.D  
Acq On : 19 Aug 2025 12:28  
Operator : RC/JU  
Sample : Q2842-02  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225

Quant Time: Aug 20 01:25:09 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration

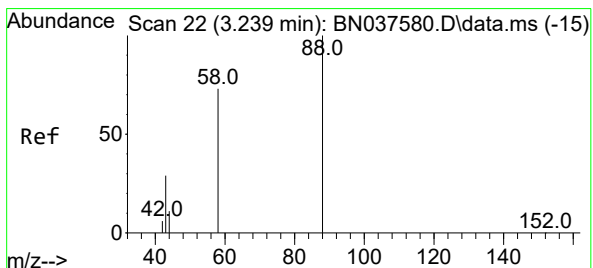
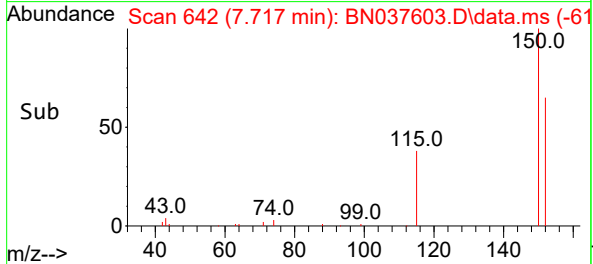
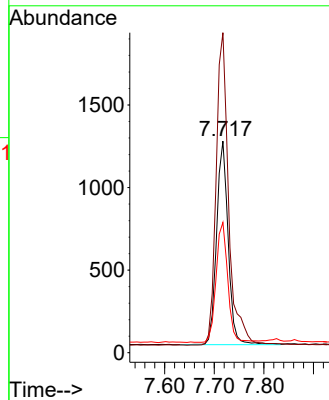
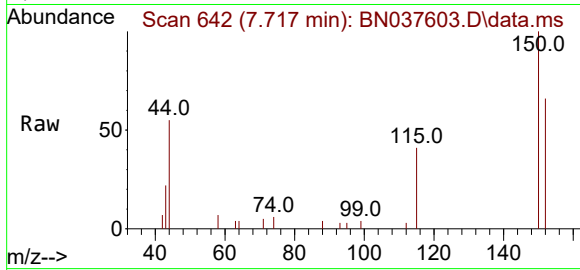




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

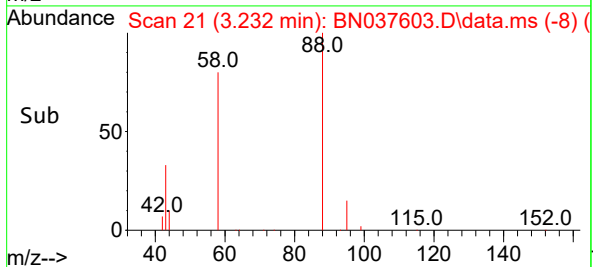
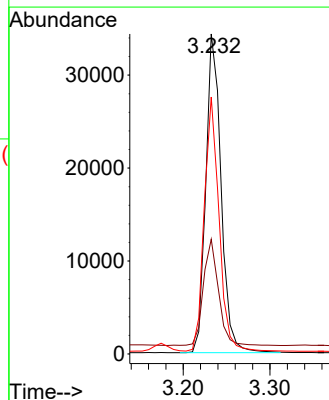
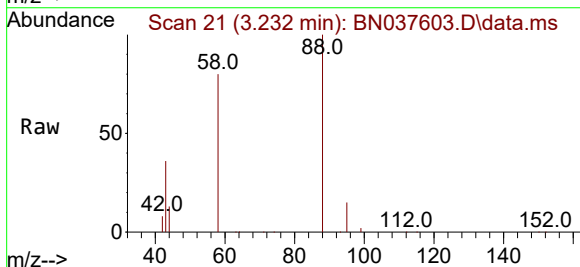
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BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225

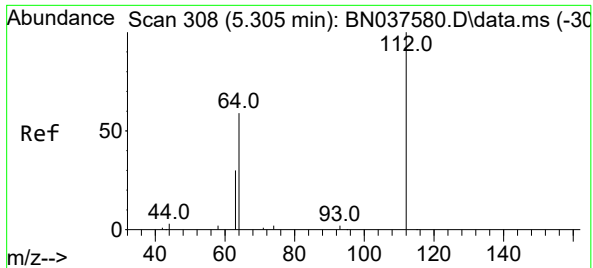
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 150     | 151.3 | 122.2 | 183.4 |
| 115     | 61.6  | 49.8  | 74.6  |



#2  
1,4-Dioxane  
Concen: 21.952 ng  
RT: 3.232 min Scan# 21  
Delta R.T. -0.007 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 88      | 100   |       |       |
| 43      | 32.8  | 25.8  | 38.6  |
| 58      | 76.8  | 61.2  | 91.8  |

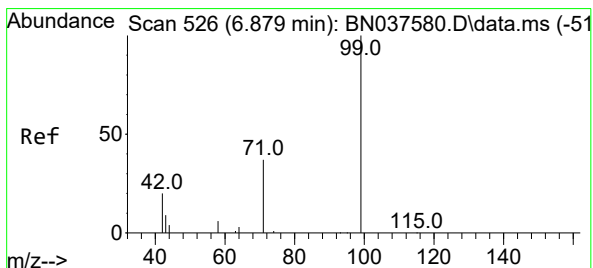
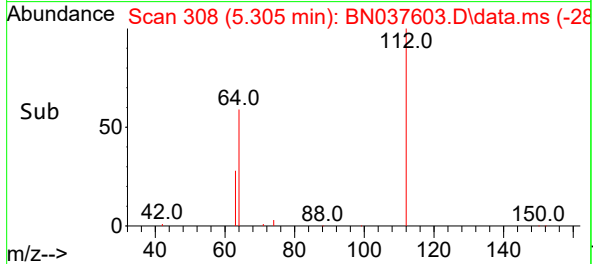
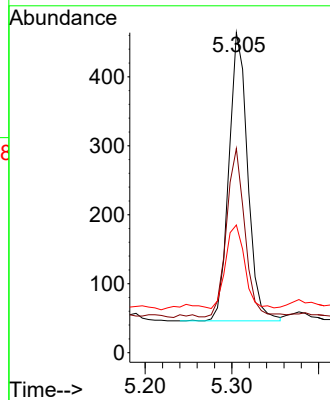
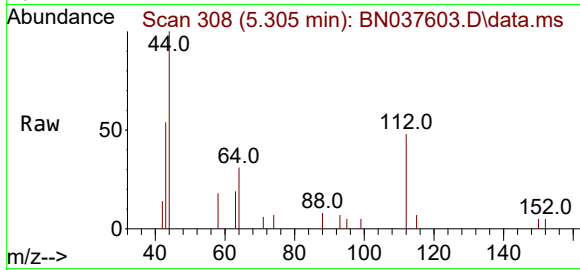




#4  
2-Fluorophenol  
Concen: 0.138 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

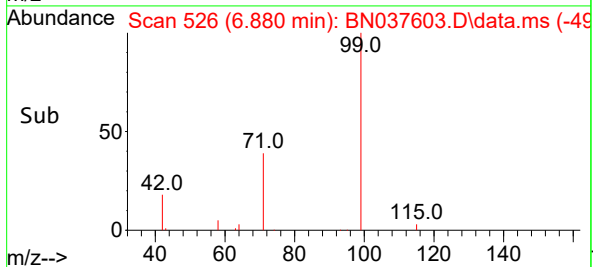
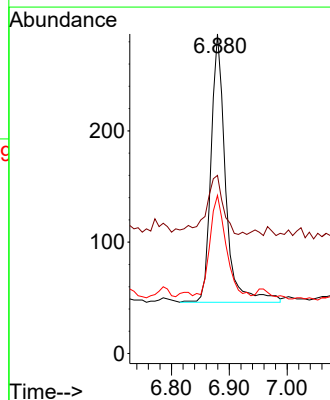
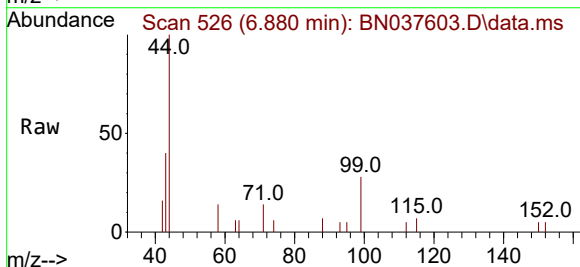
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225

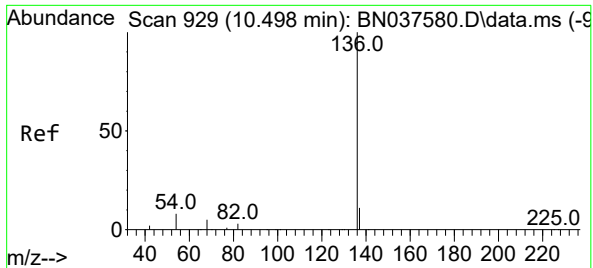
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 57.2  | 44.9  | 67.3  |
| 63      | 29.5  | 23.4  | 35.2  |



#5  
Phenol-d6  
Concen: 0.077 ng  
RT: 6.880 min Scan# 526  
Delta R.T. 0.000 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 26.2  | 18.5  | 27.7  |
| 71      | 44.4  | 28.6  | 42.8  |

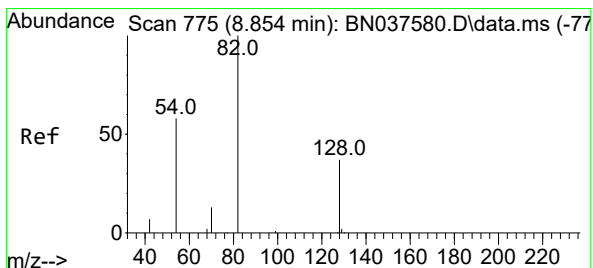
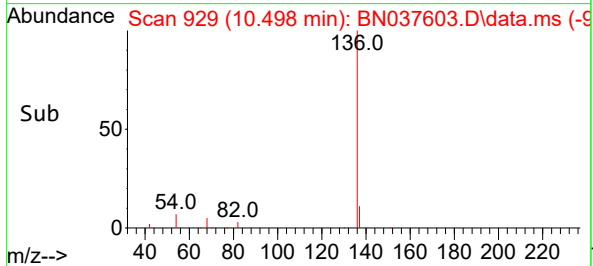
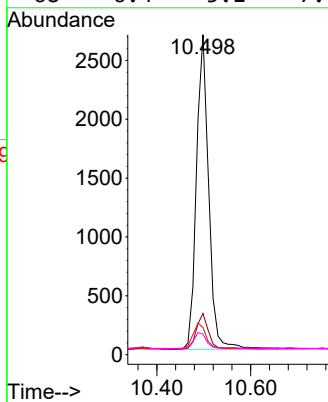
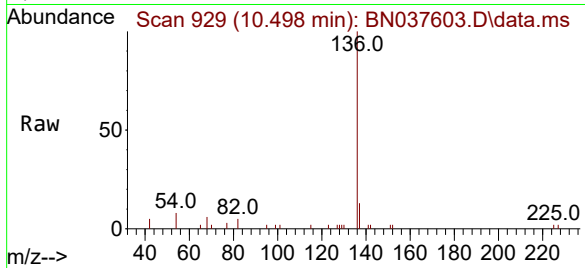




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

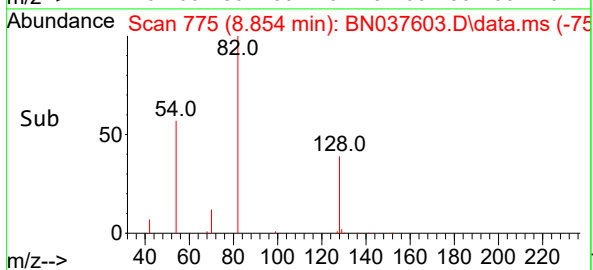
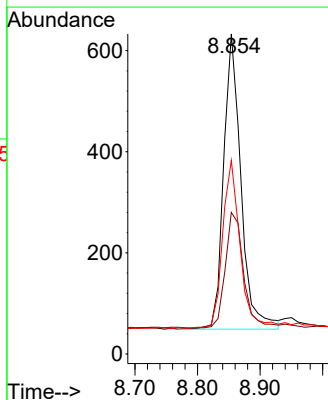
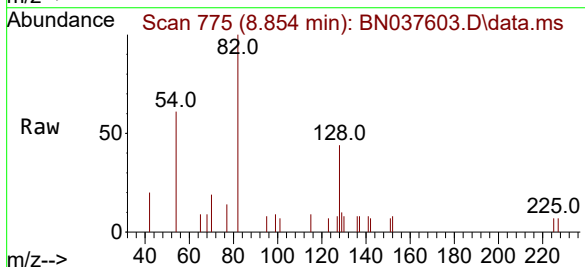
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BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225

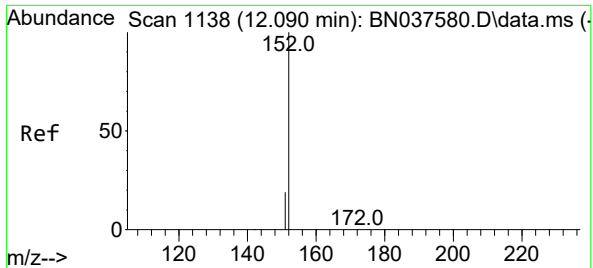
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4852  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.8  | 9.5   | 14.3  |
| 54       | 8.5   | 7.3   | 10.9  |
| 68       | 6.4   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.330 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1127  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 44.2  | 32.6  | 48.8  |
| 54       | 60.5  | 48.9  | 73.3  |

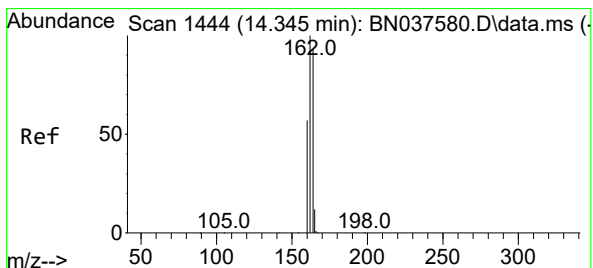
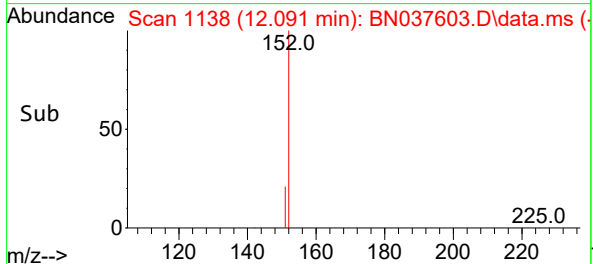
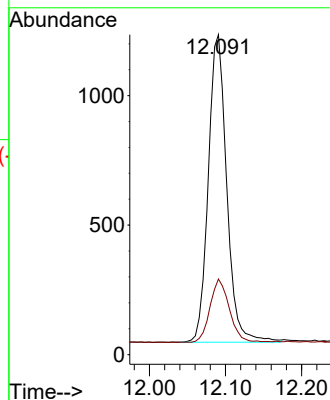
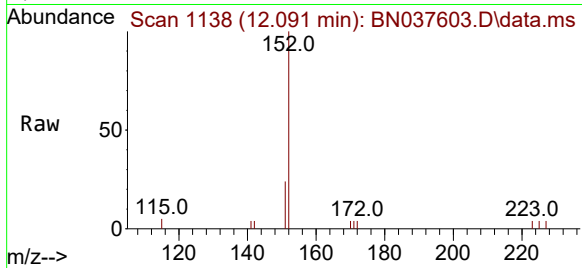




#11  
2-Methylnaphthalene-d10  
Concen: 0.304 ng  
RT: 12.091 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

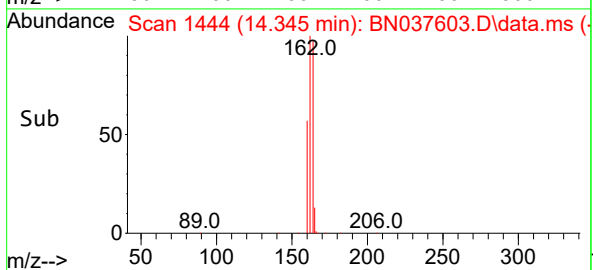
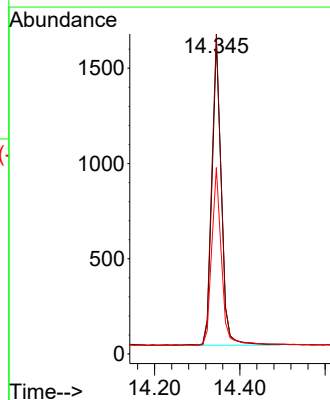
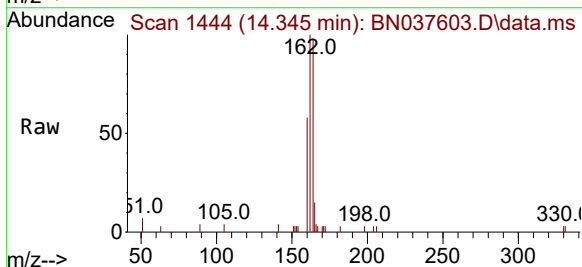
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225

Tgt Ion:152 Resp: 2003  
Ion Ratio Lower Upper  
152 100  
151 21.6 17.3 25.9

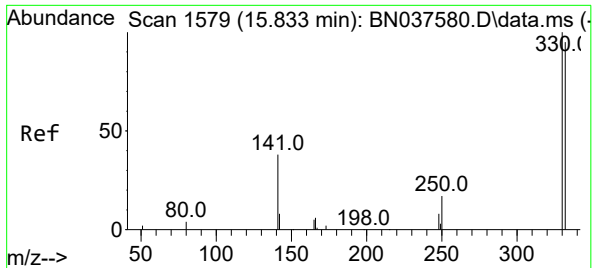


#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

Tgt Ion:164 Resp: 2452  
Ion Ratio Lower Upper  
164 100  
162 102.3 85.5 128.3  
160 59.6 49.5 74.3



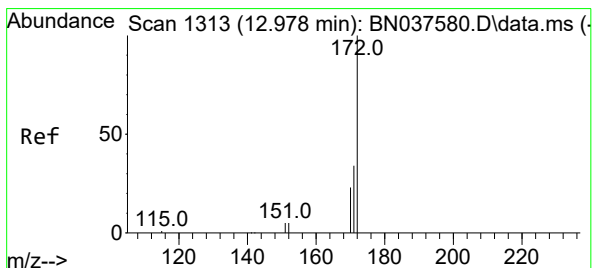
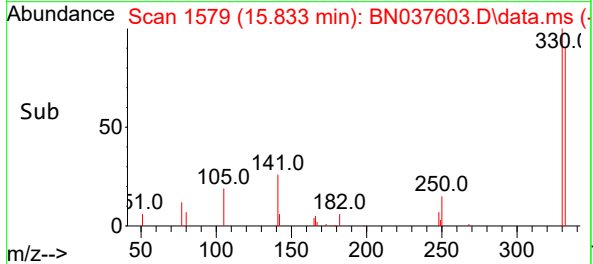
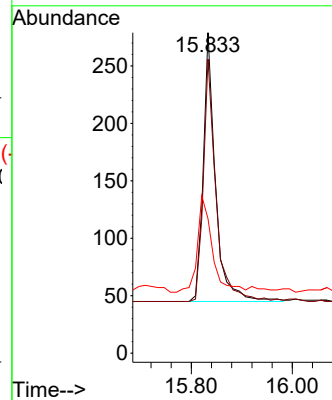
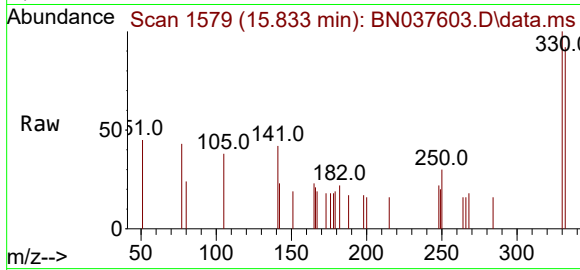




#14  
2,4,6-Tribromophenol  
Concen: 0.367 ng  
RT: 15.833 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

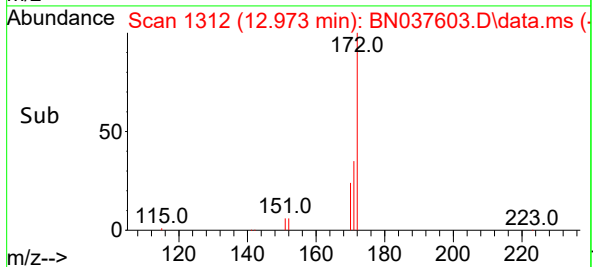
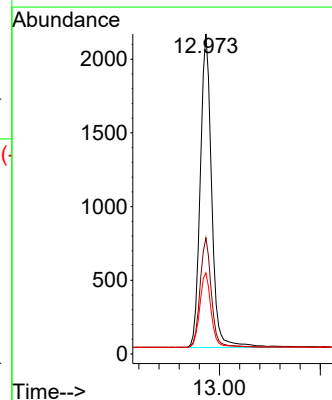
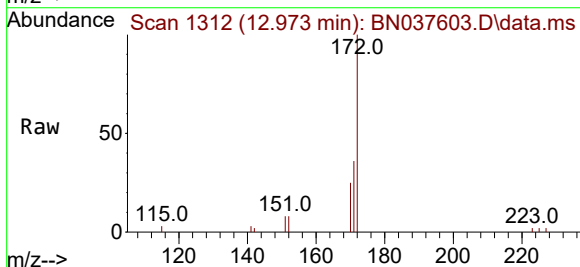
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225

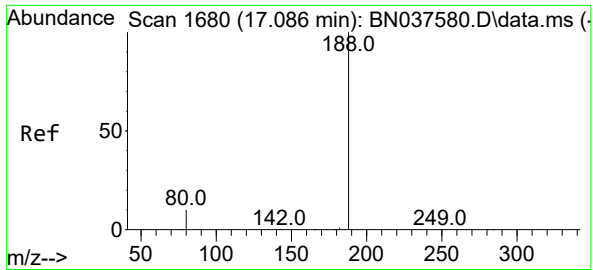
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 394   |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 93.4  | 77.4  | 116.0 |
| 141      | 43.4  | 30.9  | 46.3  |



#15  
2-Fluorobiphenyl  
Concen: 0.334 ng  
RT: 12.973 min Scan# 1312  
Delta R.T. -0.005 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 4739  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.3  | 28.2  | 42.4  |
| 170      | 25.3  | 19.2  | 28.8  |

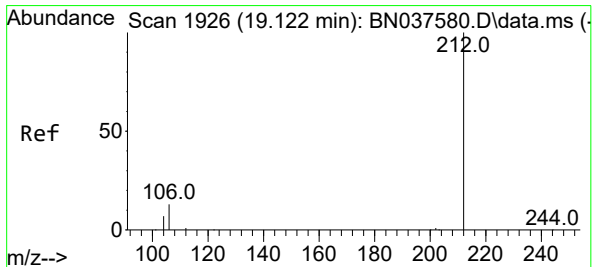
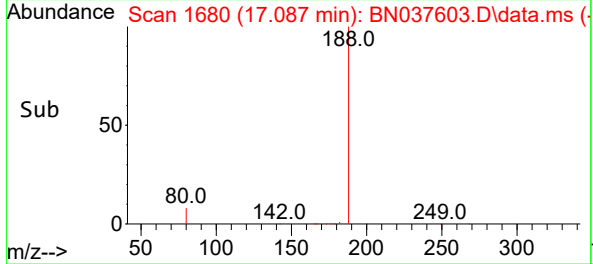
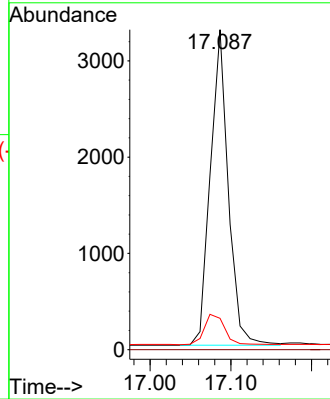
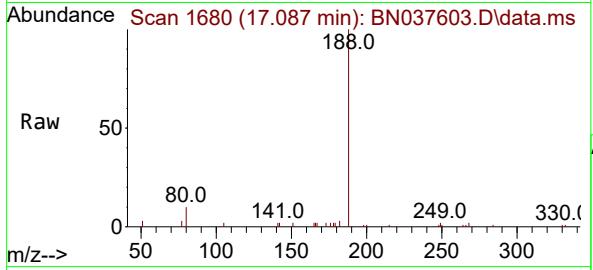




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.087 min Scan# 1  
Delta R.T. 0.000 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

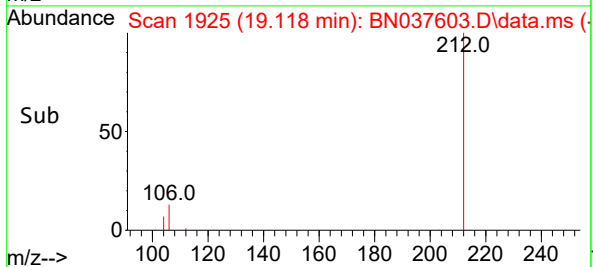
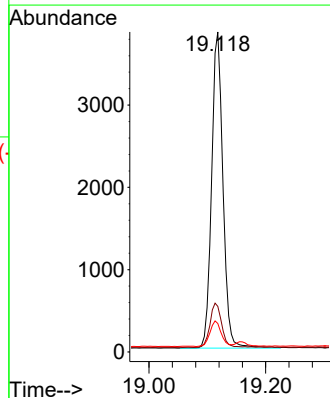
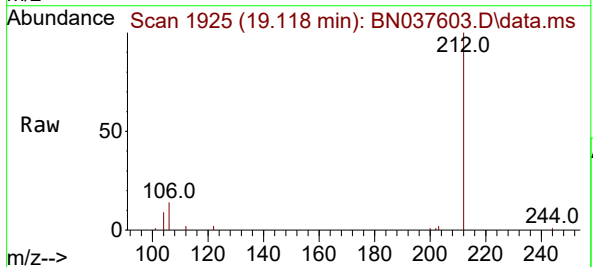
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225

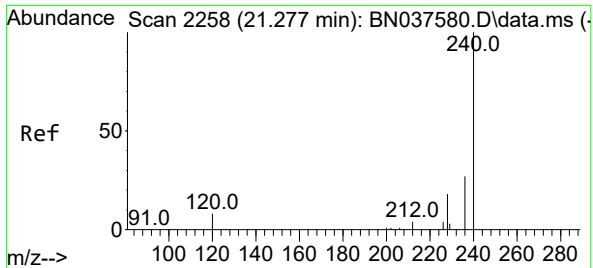
Tgt Ion:188 Resp: 5058  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.8 9.1 13.7



#27  
Fluoranthene-d10  
Concen: 0.390 ng  
RT: 19.118 min Scan# 1925  
Delta R.T. -0.004 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

Tgt Ion:212 Resp: 5190  
Ion Ratio Lower Upper  
212 100  
106 14.6 11.5 17.3  
104 8.1 6.6 9.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037603.D

Acq: 19 Aug 2025 12:28

Instrument :

BNA\_N

ClientSampleId :

RMW-02B-66.3-081225

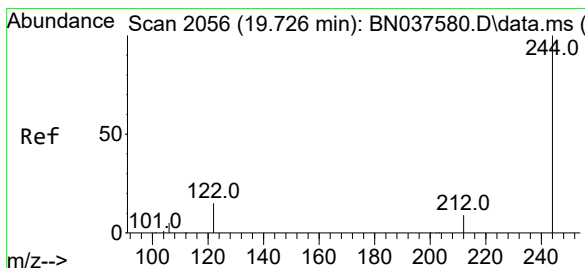
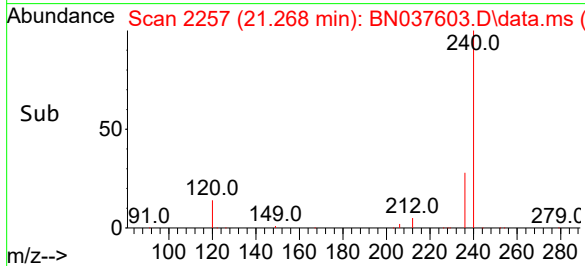
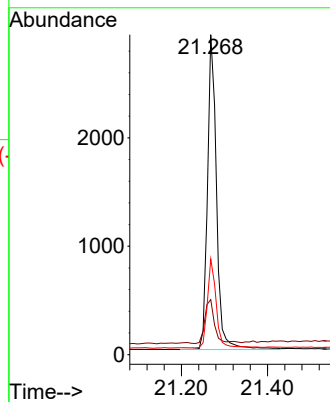
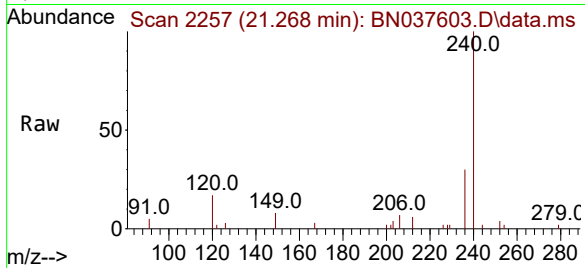
Tgt Ion:240 Resp: 4260

Ion Ratio Lower Upper

240 100

120 17.2 8.9 13.3#

236 29.9 22.6 33.8



#31

Terphenyl-d14

Concen: 0.488 ng

RT: 19.722 min Scan# 2055

Delta R.T. -0.004 min

Lab File: BN037603.D

Acq: 19 Aug 2025 12:28

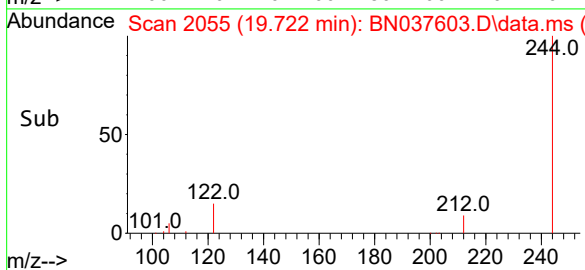
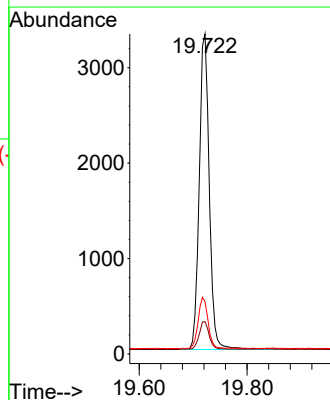
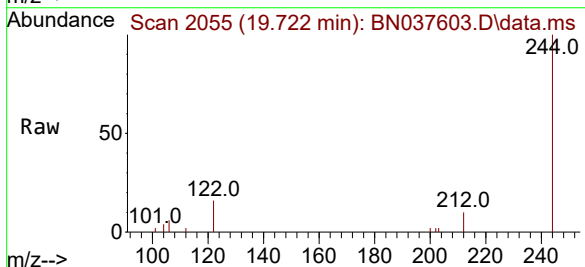
Tgt Ion:244 Resp: 4279

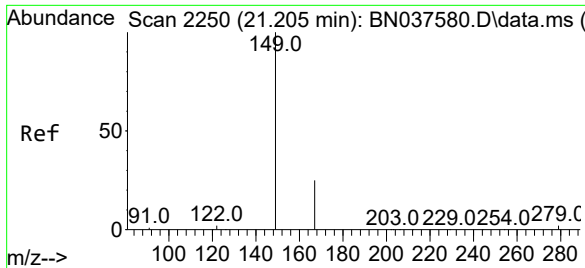
Ion Ratio Lower Upper

244 100

212 10.1 8.2 12.2

122 16.3 13.2 19.8

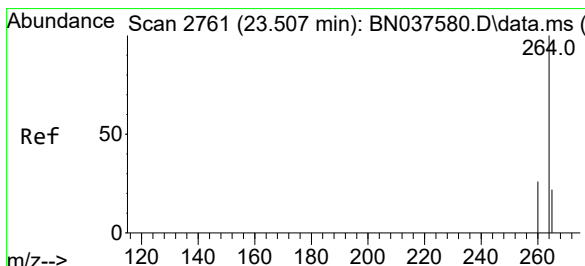
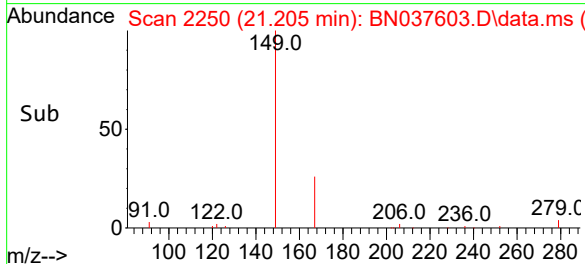
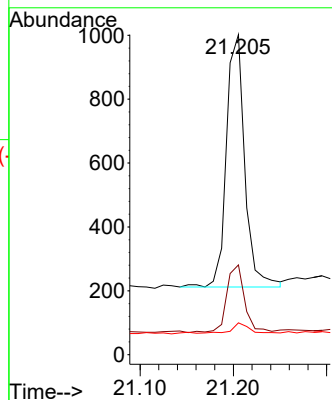
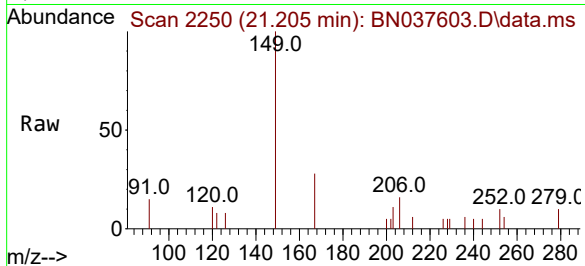




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.184 ng  
RT: 21.205 min Scan# 2119  
Delta R.T. 0.000 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

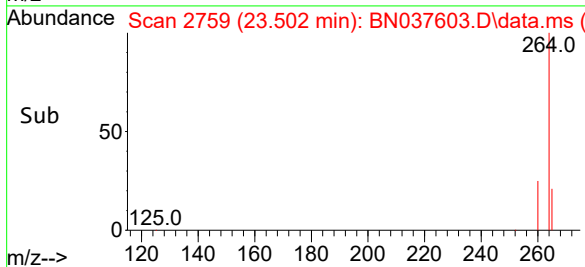
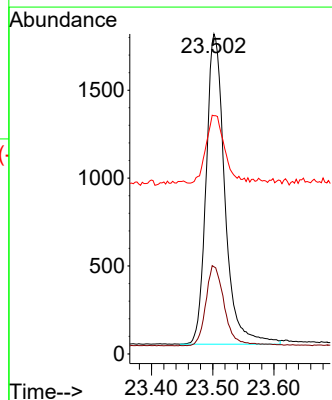
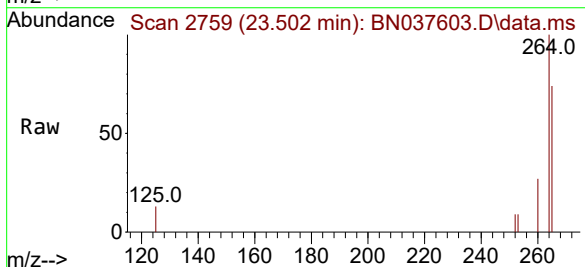
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225

Tgt Ion:149 Resp: 1082  
Ion Ratio Lower Upper  
149 100  
167 26.2 20.5 30.7  
279 3.7 2.6 4.0



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.502 min Scan# 2759  
Delta R.T. -0.006 min  
Lab File: BN037603.D  
Acq: 19 Aug 2025 12:28

Tgt Ion:264 Resp: 3745  
Ion Ratio Lower Upper  
264 100  
260 27.3 21.6 32.4  
265 74.5 48.2 72.4#



## Report of Analysis

|                    |                                           |                 |                |
|--------------------|-------------------------------------------|-----------------|----------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: | 08/12/25       |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  | 08/12/25       |
| Client Sample ID:  | RMW-02B-66.3-081225DL                     | SDG No.:        | Q2842          |
| Lab Sample ID:     | Q2842-02DL                                | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                                | % Solid:        | 0              |
| Sample Wt/Vol:     | 970      Units:    mL                     | Final Vol:      | 1000      uL   |
| Soil Aliquot Vol:  | uL                                        | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted :    N                           | Level :         | LOW            |
| Injection Volume : | GPC Factor :    1.0                       | GPC Cleanup :   | N      PH :    |
| Prep Method :      |                                           |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037621.D        | 10        | 08/18/25 08:41 | 08/20/25 06:03 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |                     |            |          |
| 123-91-1                  | 1,4-Dioxane             | 27.0  | D         | 0.68                | 2.10       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |                     |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.32  |           | 30 (20) - 150 (139) | 80%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.45  |           | 30 (54) - 150 (157) | 113%       | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 30 (27) - 130 (154) | 90%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.36  |           | 30 (30) - 130 (155) | 90%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.55  | *         | 30 (54) - 130 (175) | 138%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |                     |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1940  | 7.71      |                     |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4470  | 10.498    |                     |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2280  | 14.345    |                     |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 4810  | 17.086    |                     |            |          |
| 1719-03-5                 | Chrysene-d12            | 3970  | 21.268    |                     |            |          |
| 1520-96-3                 | Perylene-d12            | 3640  | 23.501    |                     |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037621.D  
 Acq On : 20 Aug 2025 06:03  
 Operator : RC/JU  
 Sample : Q2842-02DL 10X  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 RMW-02B-66.3-081225DL

Quant Time: Aug 20 06:52:31 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

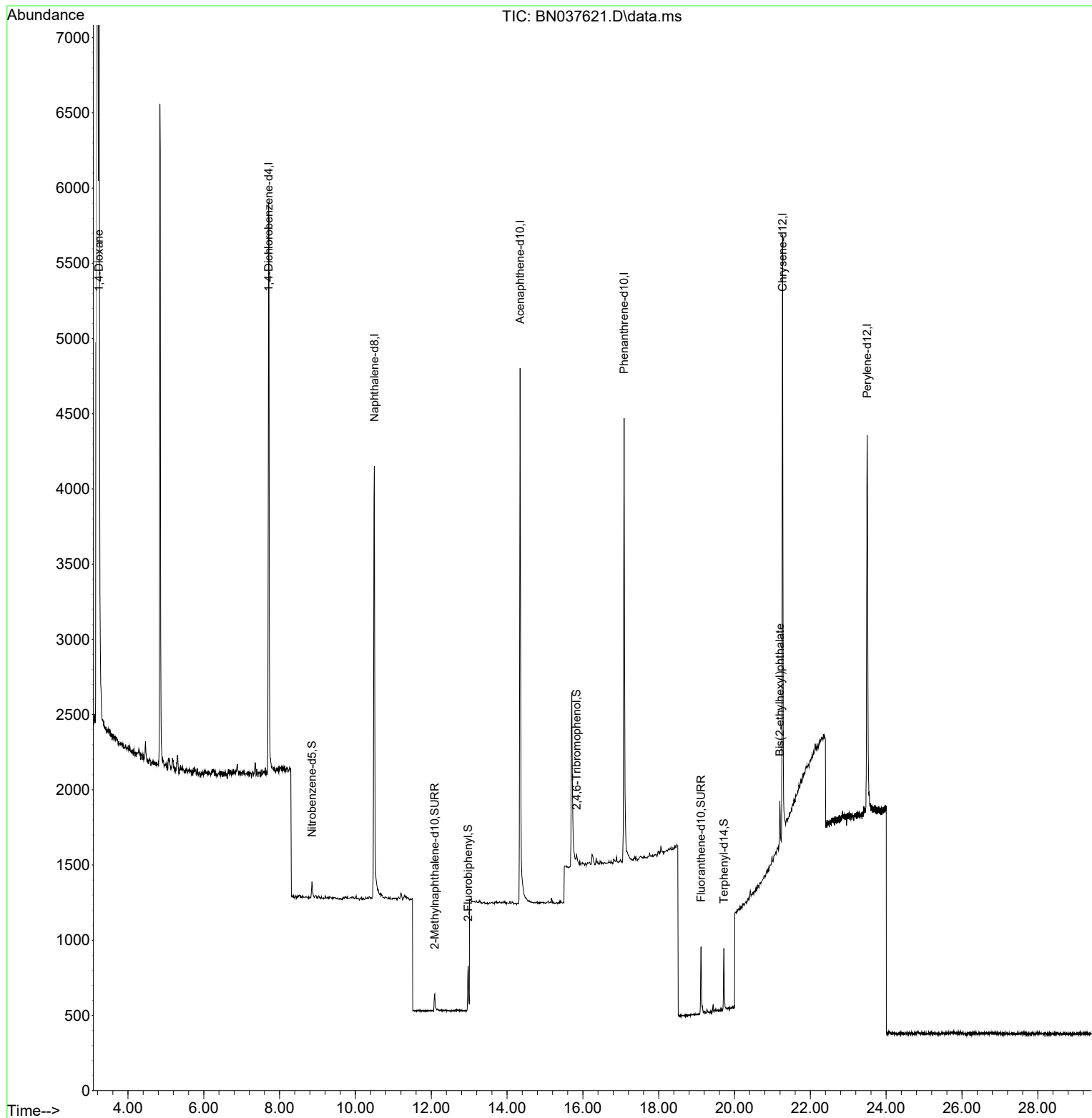
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.710  | 152  | 1938     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 4467     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2275     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 4809     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 3968     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.501 | 264  | 3640     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 72       | 0.016 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 50       | 0.009 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 113      | 0.036 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.090 | 152  | 192      | 0.032 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 41       | 0.041 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 478      | 0.036 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.118 | 212  | 570      | 0.045 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.717 | 244  | 449      | 0.055 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.232  | 88   | 4850     | 2.616 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149  | 315      | 0.058 | ng    | 96       |
| -----                         |        |      |          |       |       |          |

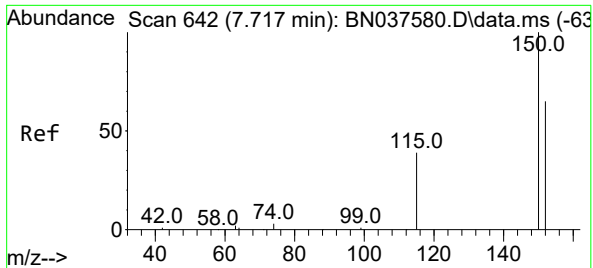
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037621.D  
Acq On : 20 Aug 2025 06:03  
Operator : RC/JU  
Sample : Q2842-02DL 10X  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225DL

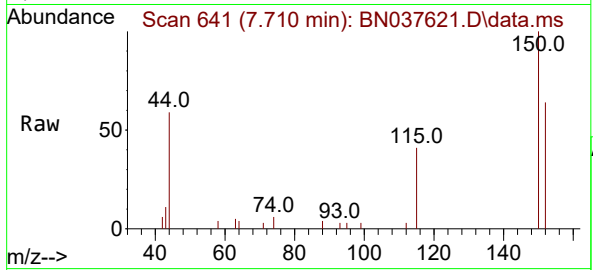
Quant Time: Aug 20 06:52:31 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration



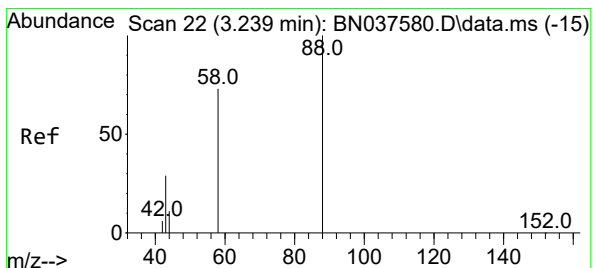
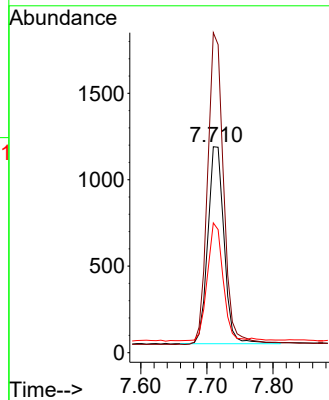
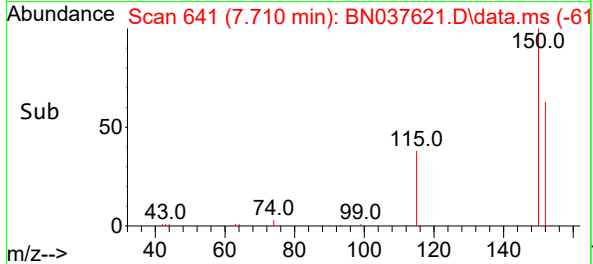


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.710 min Scan# 64  
 Delta R.T. -0.007 min  
 Lab File: BN037621.D  
 Acq: 20 Aug 2025 06:03

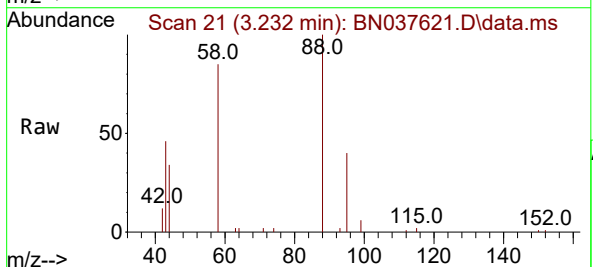
Instrument :  
 BNA\_N  
 ClientSampleId :  
 RMW-02B-66.3-081225DL



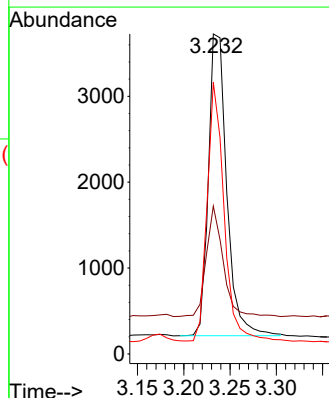
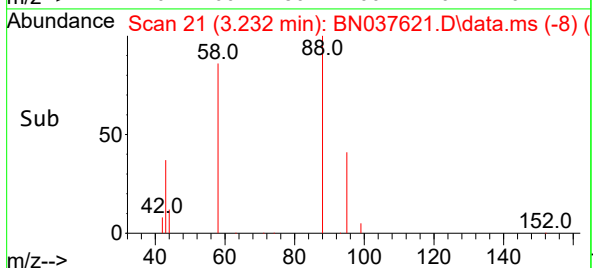
Tgt Ion: 152 Resp: 1938  
 Ion Ratio Lower Upper  
 152 100  
 150 155.4 122.2 183.4  
 115 63.0 49.8 74.6



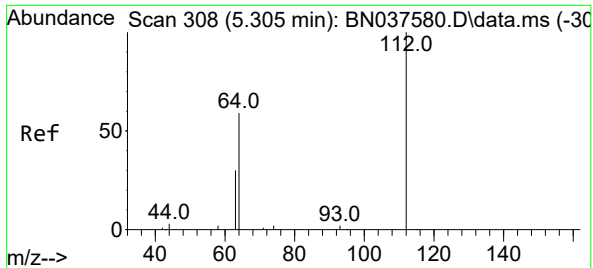
#2  
 1,4-Dioxane  
 Concen: 2.616 ng  
 RT: 3.232 min Scan# 21  
 Delta R.T. -0.007 min  
 Lab File: BN037621.D  
 Acq: 20 Aug 2025 06:03



Tgt Ion: 88 Resp: 4850  
 Ion Ratio Lower Upper  
 88 100  
 43 33.4 25.8 38.6  
 58 78.7 61.2 91.8



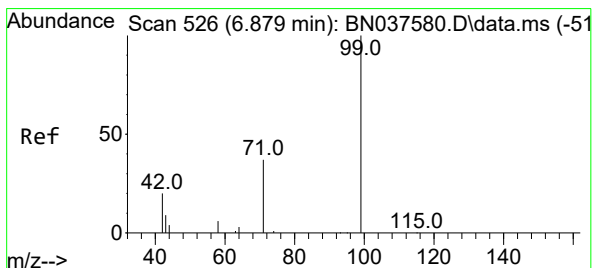
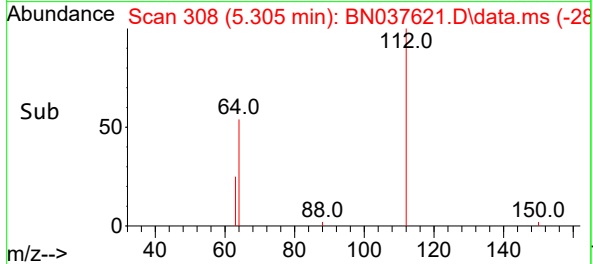
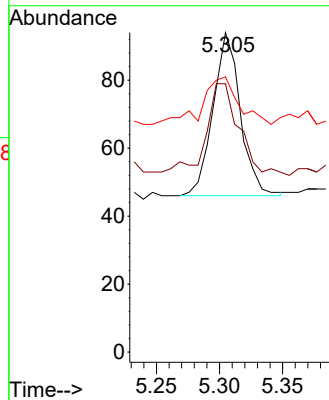
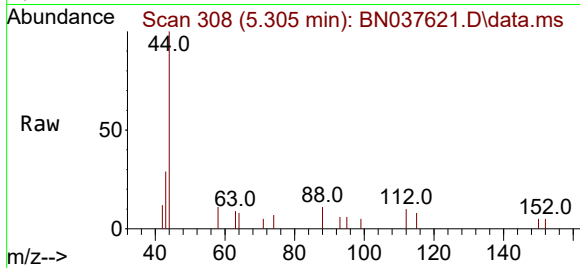




#4  
2-Fluorophenol  
Concen: 0.016 ng  
RT: 5.305 min Scan# 308  
Delta R.T. -0.000 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

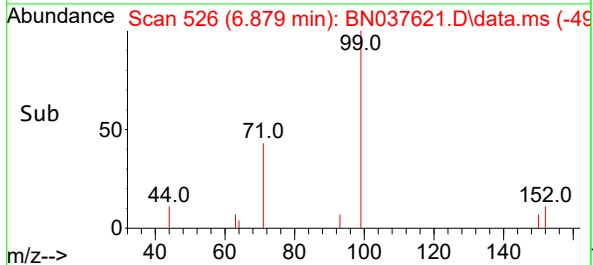
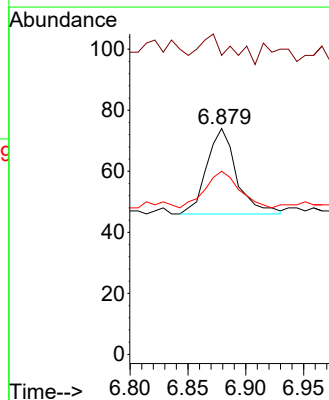
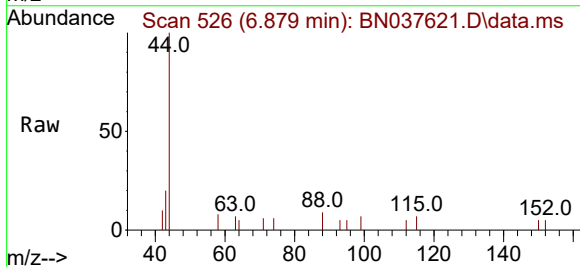
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BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225DL

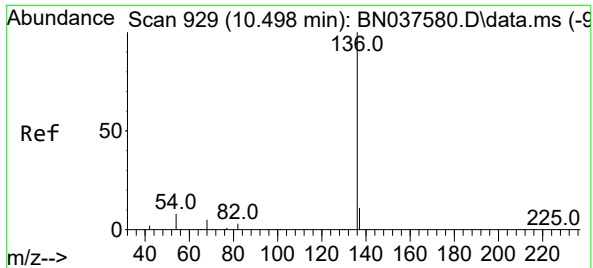
Tgt Ion:112 Resp: 72  
Ion Ratio Lower Upper  
112 100  
64 69.4 44.9 67.3#  
63 45.8 23.4 35.2#



#5  
Phenol-d6  
Concen: 0.009 ng  
RT: 6.879 min Scan# 526  
Delta R.T. -0.000 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

Tgt Ion: 99 Resp: 50  
Ion Ratio Lower Upper  
99 100  
42 36.0 18.5 27.7#  
71 54.0 28.6 42.8#

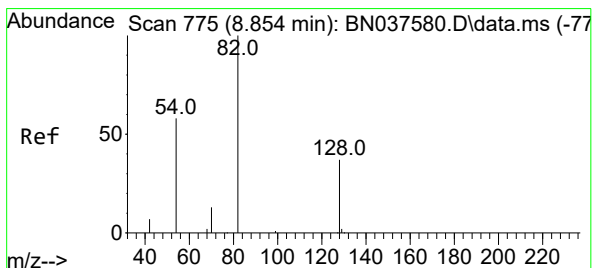
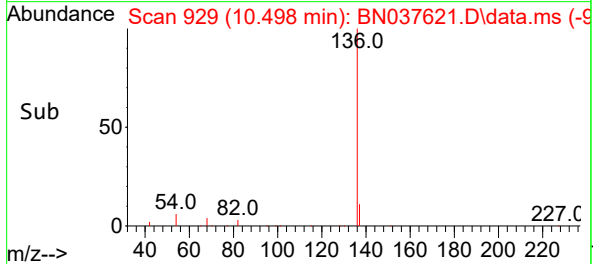
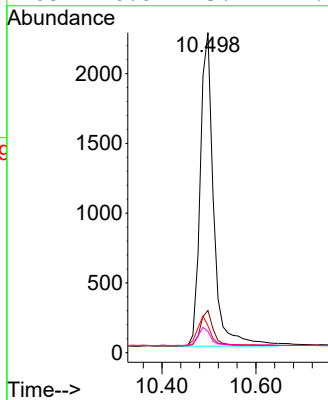
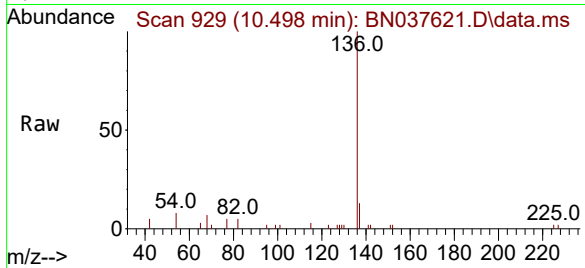




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

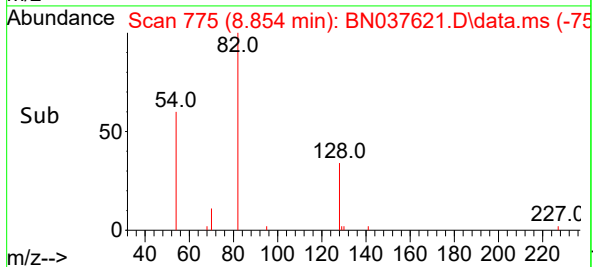
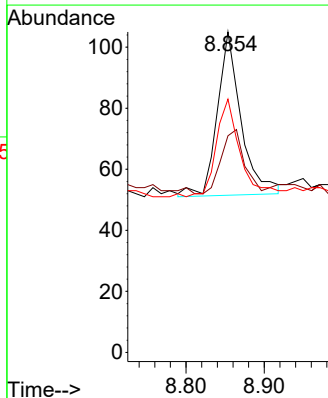
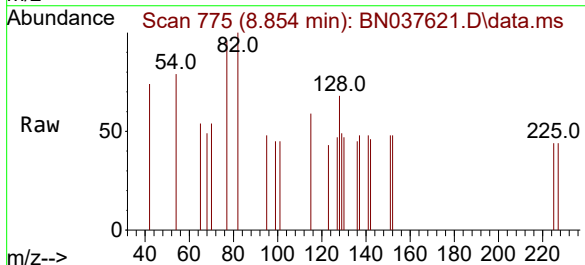
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225DL

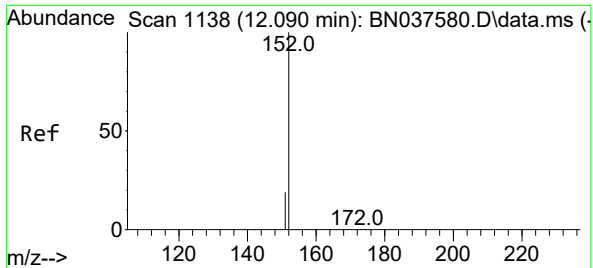
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4467  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 13.2  | 9.5   | 14.3  |
| 54       | 8.4   | 7.3   | 10.9  |
| 68       | 6.6   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.036 ng  
RT: 8.854 min Scan# 775  
Delta R.T. -0.000 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 113   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 67.6  | 32.6  | 48.8# |
| 54       | 79.0  | 48.9  | 73.3# |

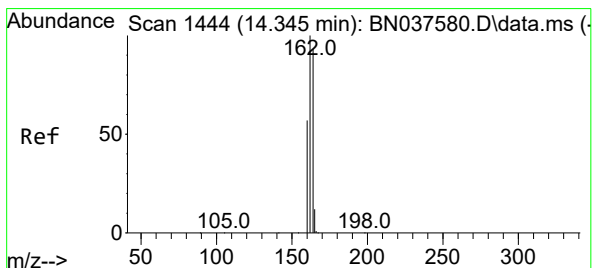
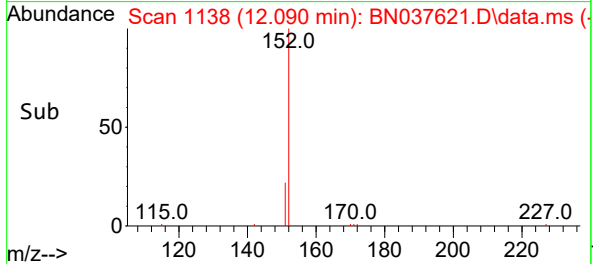
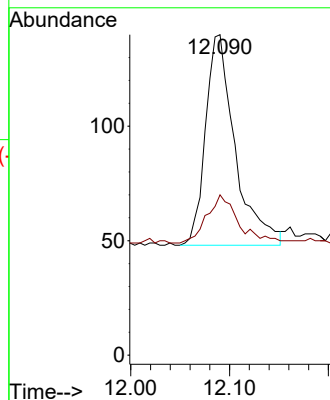
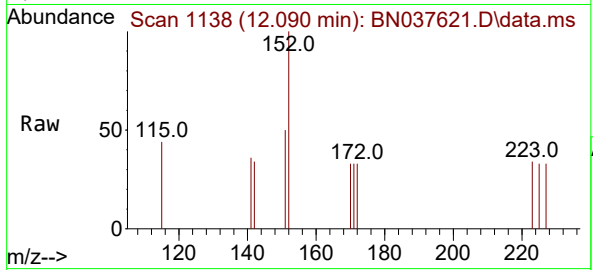




#11  
2-Methylnaphthalene-d10  
Concen: 0.032 ng  
RT: 12.090 min Scan# 1138  
Delta R.T. -0.000 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

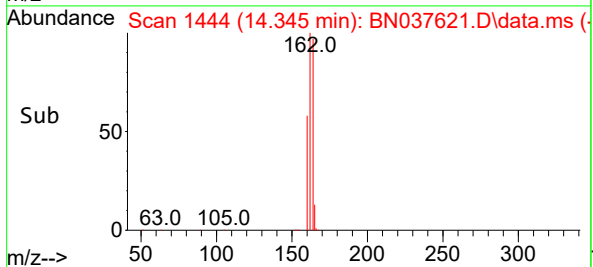
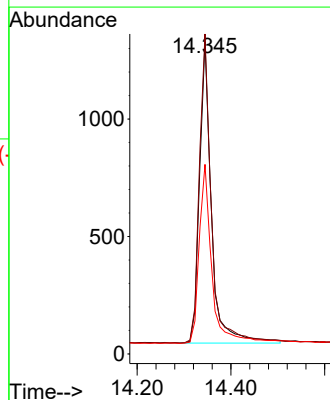
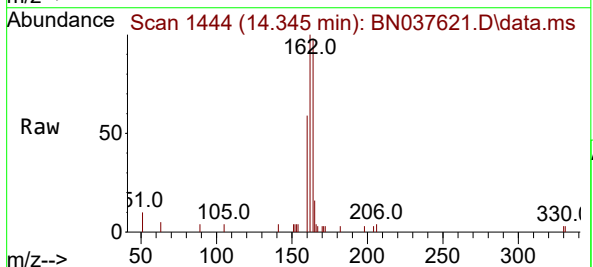
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225DL

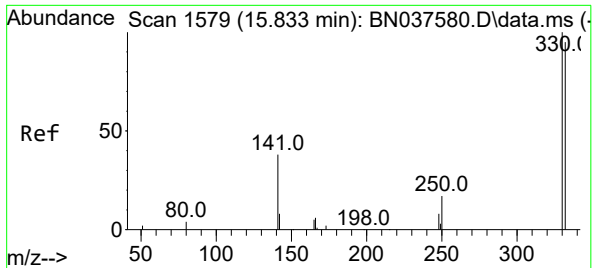
Tgt Ion:152 Resp: 192  
Ion Ratio Lower Upper  
152 100  
151 26.6 17.3 25.9#



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

Tgt Ion:164 Resp: 2275  
Ion Ratio Lower Upper  
164 100  
162 102.5 85.5 128.3  
160 60.7 49.5 74.3

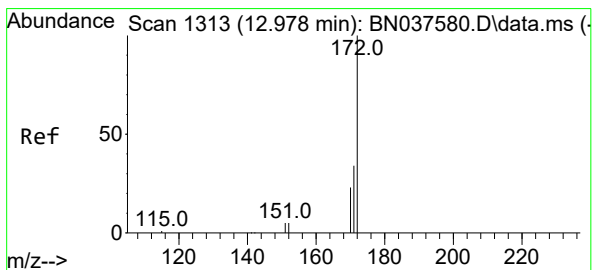
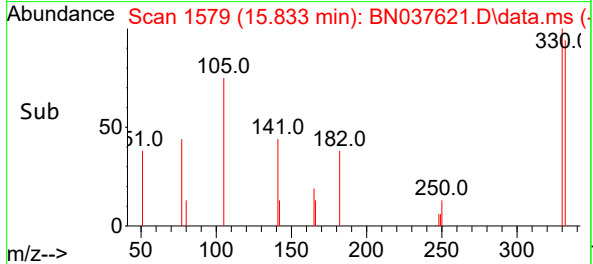
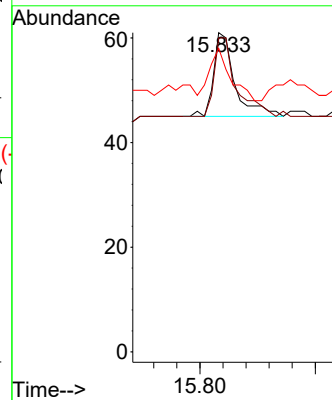
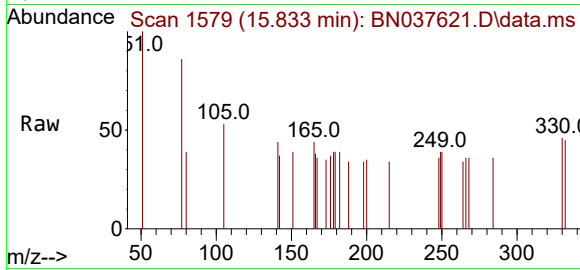




#14  
2,4,6-Tribromophenol  
Concen: 0.041 ng  
RT: 15.833 min Scan# 11  
Delta R.T. -0.000 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

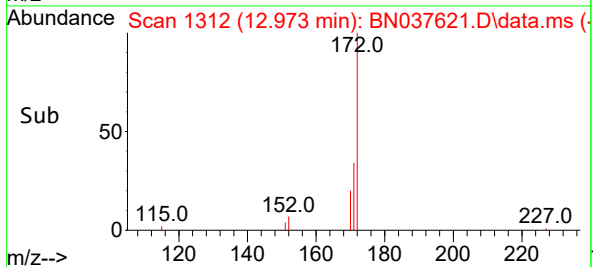
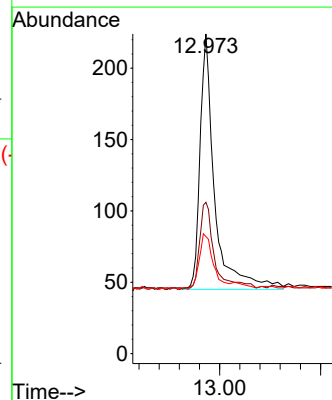
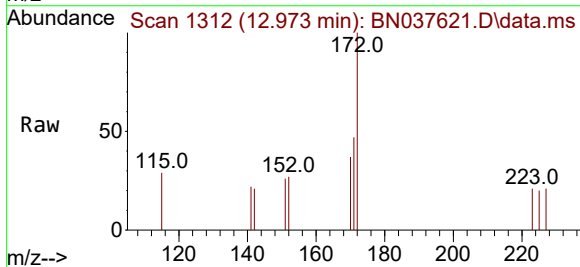
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225DL

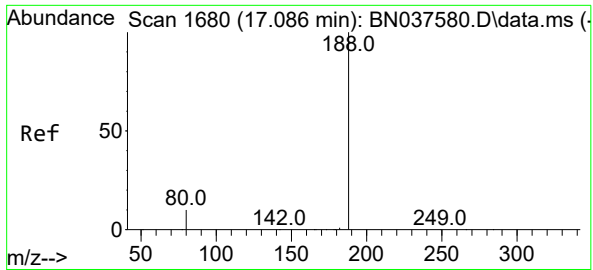
Tgt Ion:330 Resp: 41  
Ion Ratio Lower Upper  
330 100  
332 97.6 77.4 116.0  
141 61.0 30.9 46.3#



#15  
2-Fluorobiphenyl  
Concen: 0.036 ng  
RT: 12.973 min Scan# 1312  
Delta R.T. -0.005 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

Tgt Ion:172 Resp: 478  
Ion Ratio Lower Upper  
172 100  
171 47.3 28.2 42.4#  
170 36.6 19.2 28.8#





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037621.D

Acq: 20 Aug 2025 06:03

Instrument :

BNA\_N

ClientSampleId :

RMW-02B-66.3-081225DL

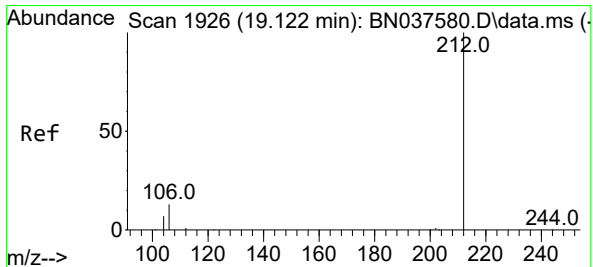
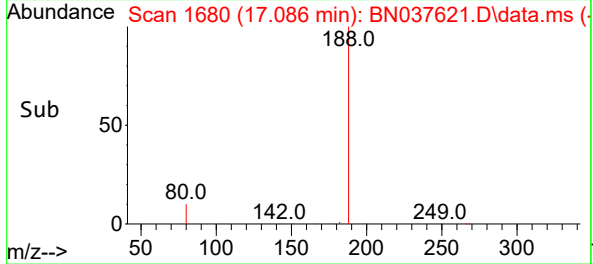
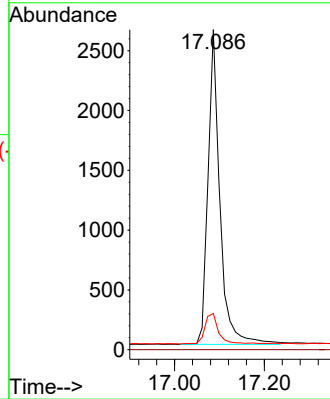
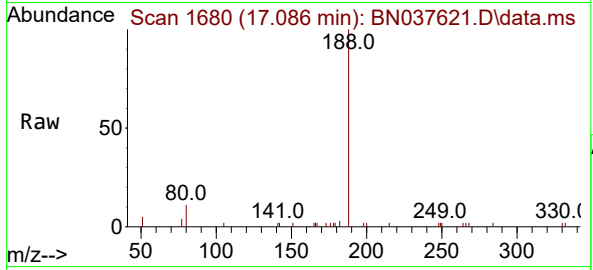
Tgt Ion:188 Resp: 4809

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 9.1 13.7



#27

Fluoranthene-d10

Concen: 0.045 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.005 min

Lab File: BN037621.D

Acq: 20 Aug 2025 06:03

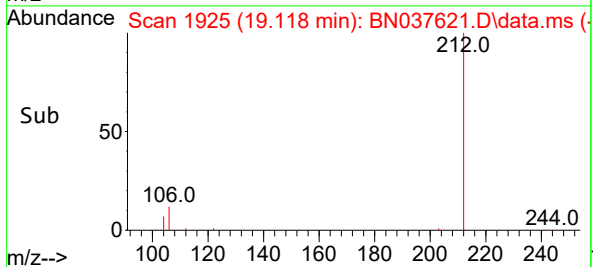
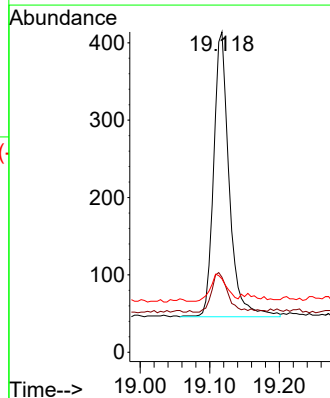
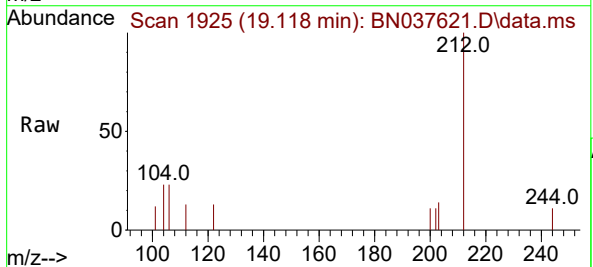
Tgt Ion:212 Resp: 570

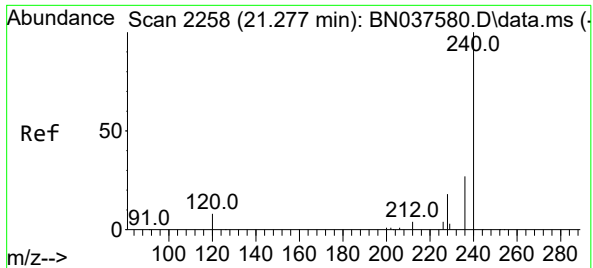
Ion Ratio Lower Upper

212 100

106 14.0 11.5 17.3

104 9.6 6.6 9.8

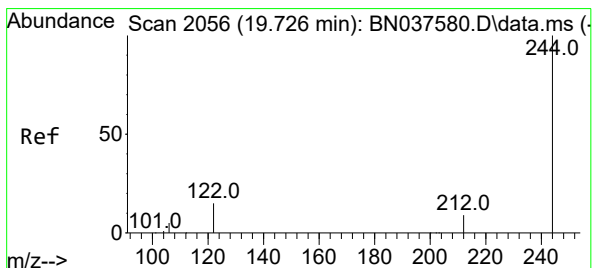
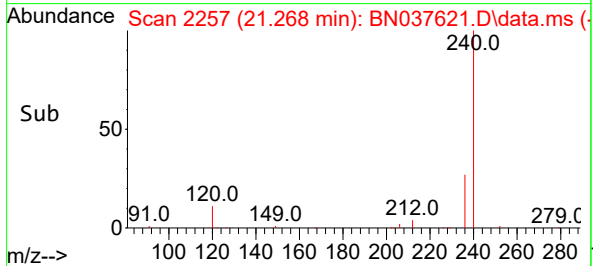
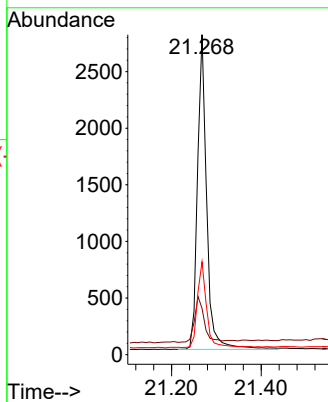
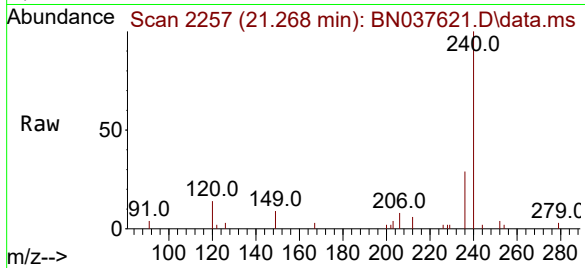




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.268 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

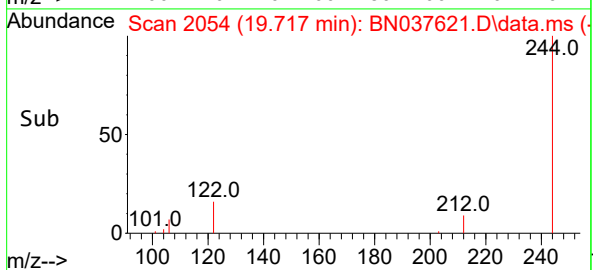
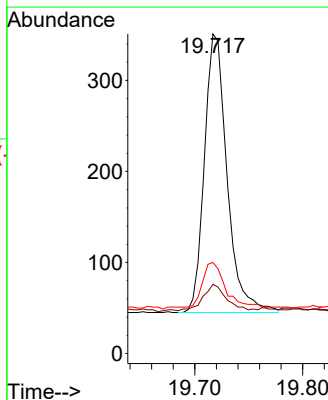
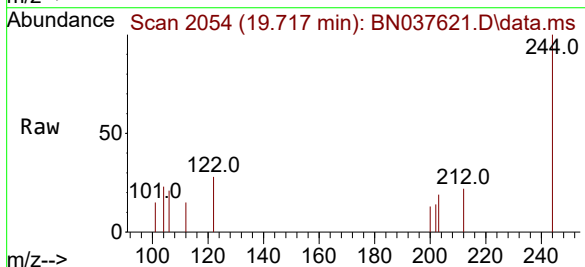
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225DL

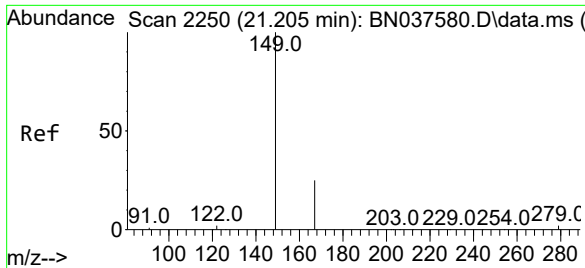
Tgt Ion:240 Resp: 3968  
Ion Ratio Lower Upper  
240 100  
120 14.4 8.9 13.3#  
236 29.1 22.6 33.8



#31  
Terphenyl-d14  
Concen: 0.055 ng  
RT: 19.717 min Scan# 2054  
Delta R.T. -0.009 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

Tgt Ion:244 Resp: 449  
Ion Ratio Lower Upper  
244 100  
212 21.7 8.2 12.2#  
122 28.5 13.2 19.8#

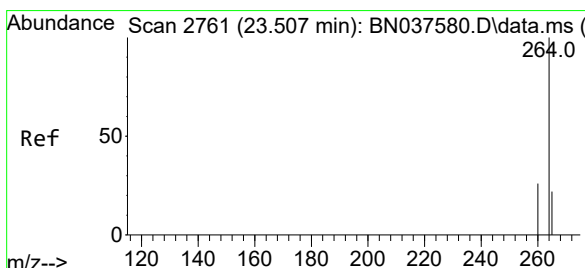
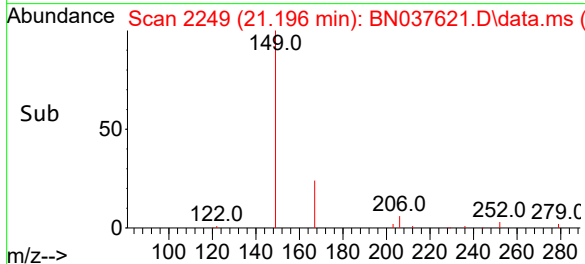
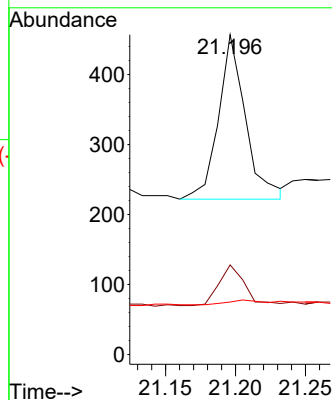
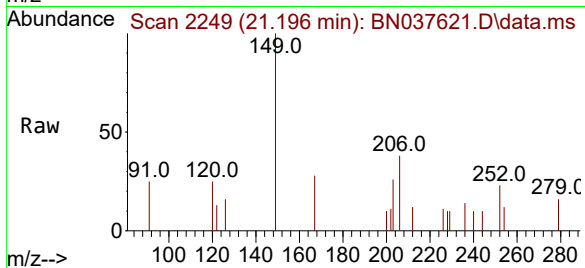




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.058 ng  
RT: 21.196 min Scan# 2119  
Delta R.T. -0.009 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

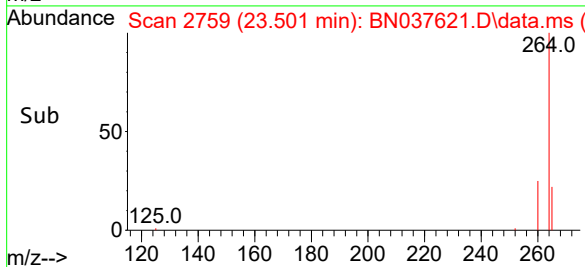
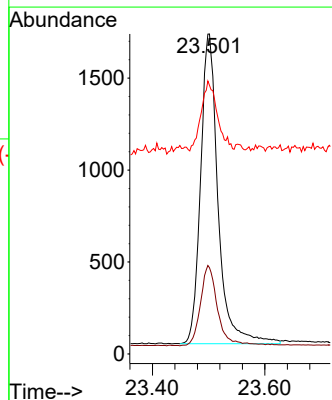
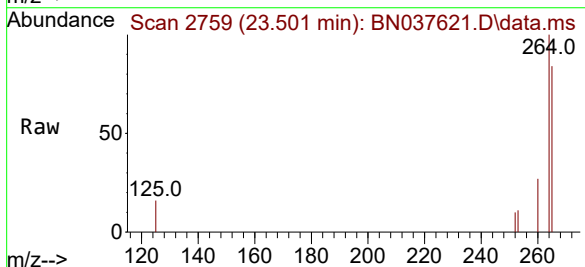
Instrument :  
BNA\_N  
ClientSampleId :  
RMW-02B-66.3-081225DL

Tgt Ion:149 Resp: 315  
Ion Ratio Lower Upper  
149 100  
167 23.5 20.5 30.7  
279 3.5 2.6 4.0



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.501 min Scan# 2759  
Delta R.T. -0.006 min  
Lab File: BN037621.D  
Acq: 20 Aug 2025 06:03

Tgt Ion:264 Resp: 3640  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.6 32.4  
265 84.0 48.2 72.4#



## Report of Analysis

|                    |                                           |                 |                |
|--------------------|-------------------------------------------|-----------------|----------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: | 08/12/25       |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  | 08/12/25       |
| Client Sample ID:  | MW-17B-55.5-081225                        | SDG No.:        | Q2842          |
| Lab Sample ID:     | Q2842-03                                  | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                                | % Solid:        | 0              |
| Sample Wt/Vol:     | 980      Units:    mL                     | Final Vol:      | 1000      uL   |
| Soil Aliquot Vol:  | uL                                        | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted :    N                           | Level :         | LOW            |
| Injection Volume : | GPC Factor :    1.0                       | GPC Cleanup :   | N      PH :    |
| Prep Method :      |                                           |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037604.D        | 1         | 08/18/25 08:41 | 08/19/25 13:04 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |                     |            |          |
| 123-91-1                  | 1,4-Dioxane             | 2.90  |           | 0.070               | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |                     |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.29  |           | 30 (20) - 150 (139) | 72%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.39  |           | 30 (54) - 150 (157) | 97%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.31  |           | 30 (27) - 130 (154) | 77%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.31  |           | 30 (30) - 130 (155) | 76%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.53  | *         | 30 (54) - 130 (175) | 132%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |                     |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2100  | 7.717     |                     |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4980  | 10.498    |                     |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2520  | 14.345    |                     |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5310  | 17.086    |                     |            |          |
| 1719-03-5                 | Chrysene-d12            | 4640  | 21.268    |                     |            |          |
| 1520-96-3                 | Perylene-d12            | 4120  | 23.505    |                     |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037604.D  
 Acq On : 19 Aug 2025 13:04  
 Operator : RC/JU  
 Sample : Q2842-03  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-17B-55.5-081225

Quant Time: Aug 20 01:25:25 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

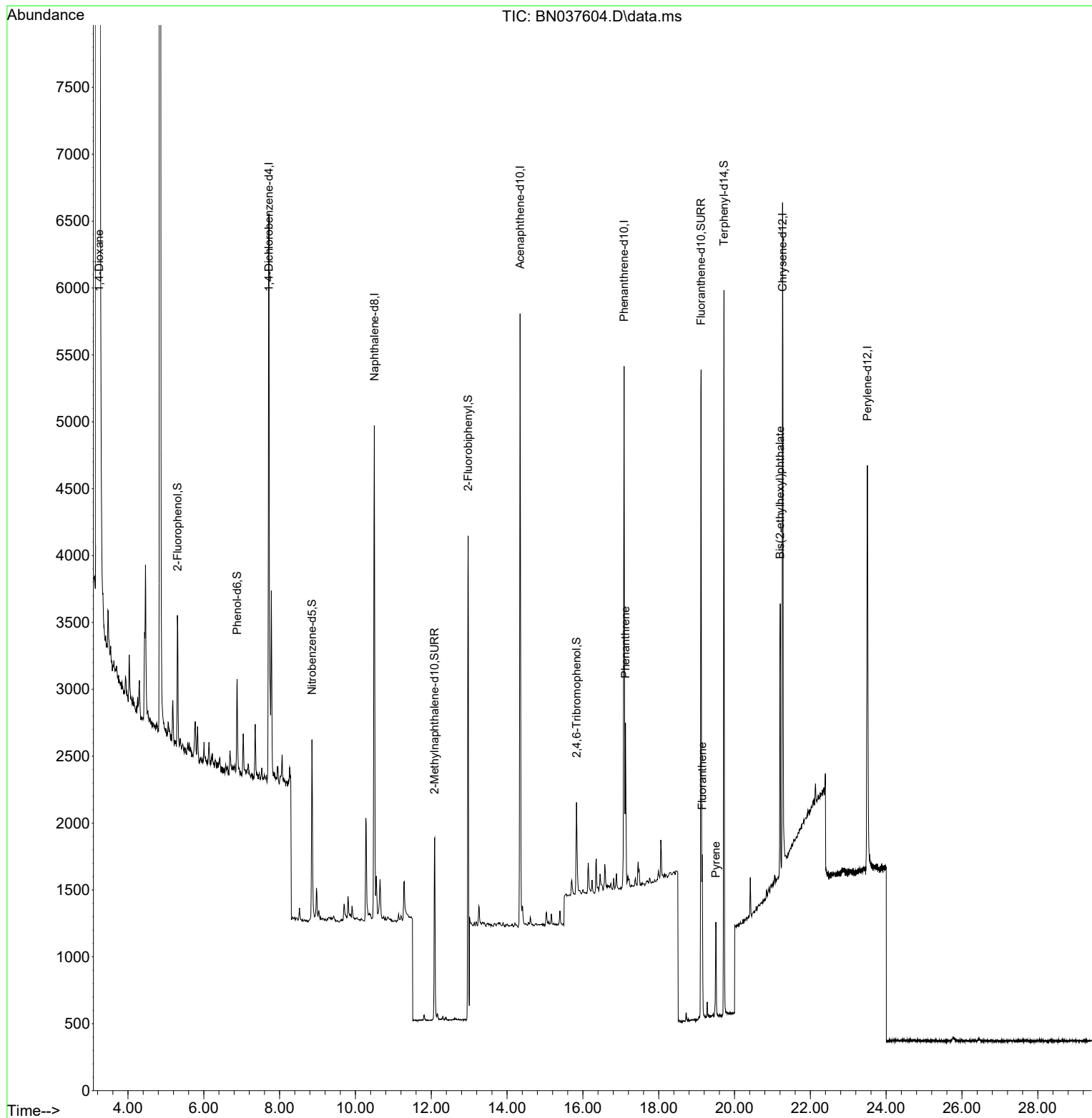
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 2101     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 4983     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2519     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 5311     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 4640     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.505 | 264  | 4122     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 686      | 0.144 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 472      | 0.082 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 1079     | 0.307 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.085 | 152  | 1963     | 0.290 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 412      | 0.374 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 4451     | 0.306 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.118 | 212  | 5412     | 0.387 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.722 | 244  | 5059     | 0.530 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 5667     | 2.819 | ng    | # 94     |
| 25) Phenanthrene              | 17.124 | 178  | 1209     | 0.075 | ng    | 99       |
| 28) Fluoranthene              | 19.146 | 202  | 1009     | 0.054 | ng    | 98       |
| 30) Pyrene                    | 19.508 | 202  | 640      | 0.037 | ng    | # 94     |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 1816     | 0.284 | ng    | 97       |
| -----                         |        |      |          |       |       |          |

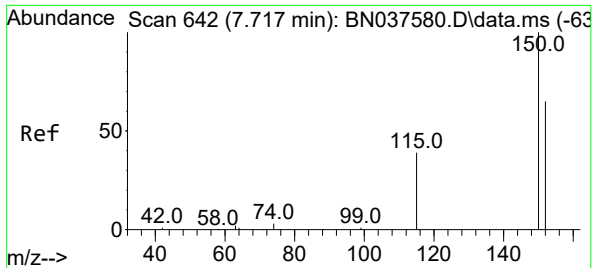
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037604.D  
Acq On : 19 Aug 2025 13:04  
Operator : RC/JU  
Sample : Q2842-03  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225

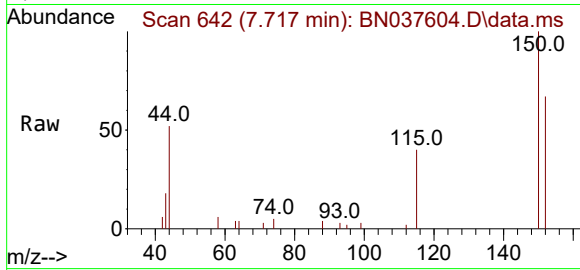
Quant Time: Aug 20 01:25:25 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration



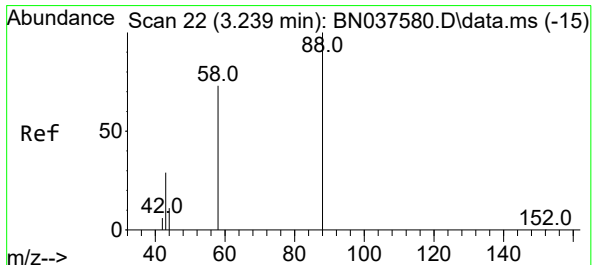
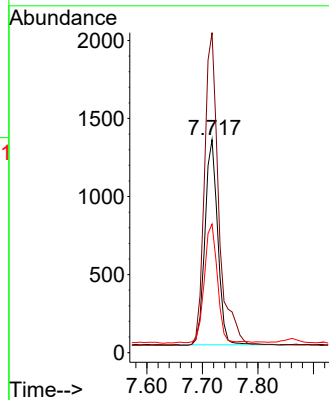
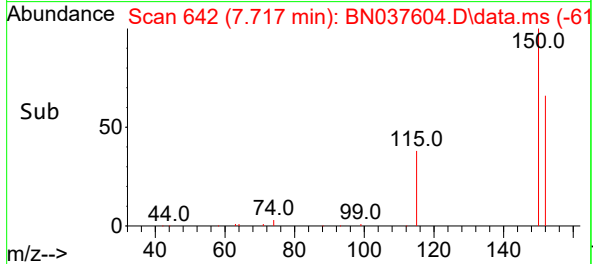


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.717 min Scan# 64  
 Delta R.T. 0.000 min  
 Lab File: BN037604.D  
 Acq: 19 Aug 2025 13:04

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-17B-55.5-081225

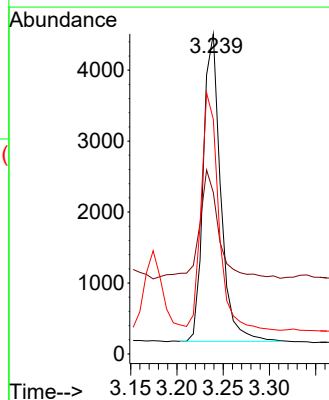
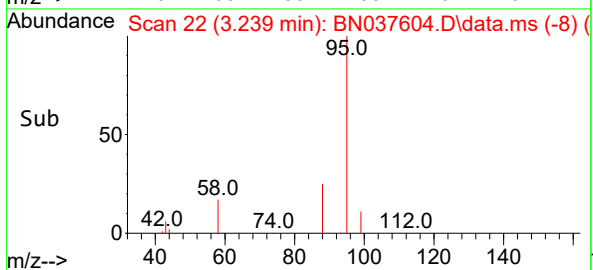
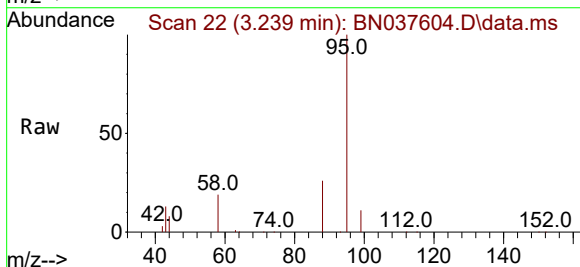


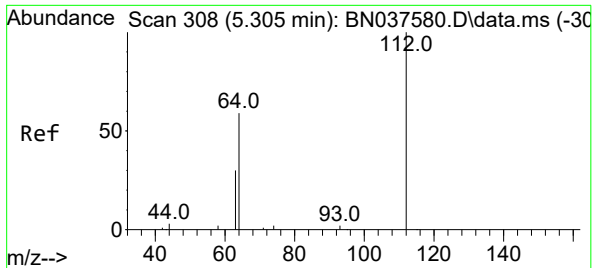
Tgt Ion: 152 Resp: 2101  
 Ion Ratio Lower Upper  
 152 100  
 150 150.3 122.2 183.4  
 115 60.4 49.8 74.6



#2  
 1,4-Dioxane  
 Concen: 2.819 ng  
 RT: 3.239 min Scan# 22  
 Delta R.T. 0.000 min  
 Lab File: BN037604.D  
 Acq: 19 Aug 2025 13:04

Tgt Ion: 88 Resp: 5667  
 Ion Ratio Lower Upper  
 88 100  
 43 40.2 25.8 38.6#  
 58 78.2 61.2 91.8

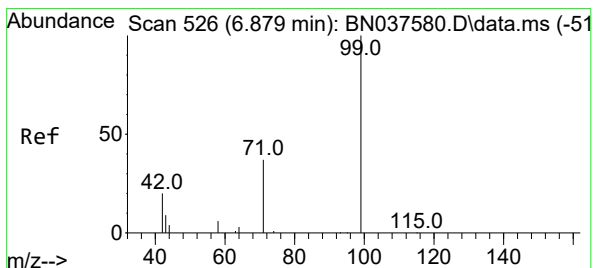
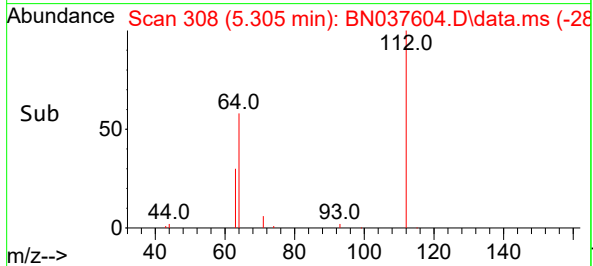
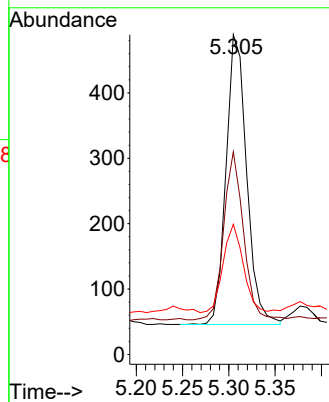
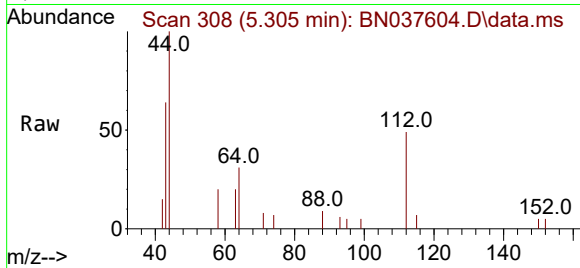




#4  
2-Fluorophenol  
Concen: 0.144 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

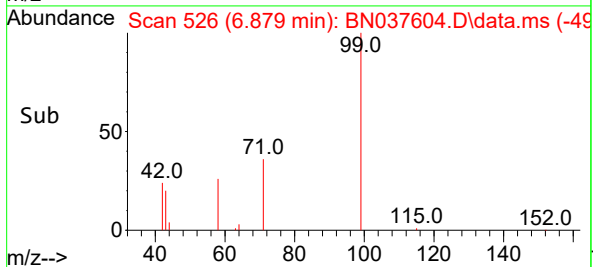
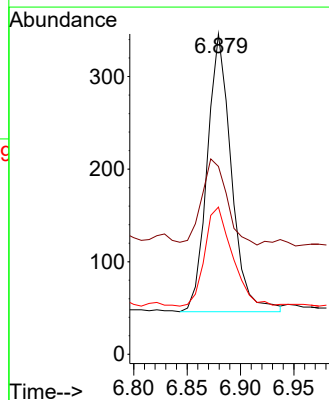
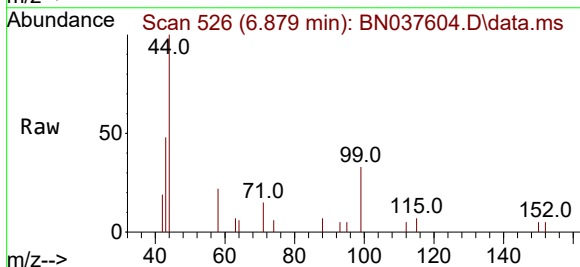
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225

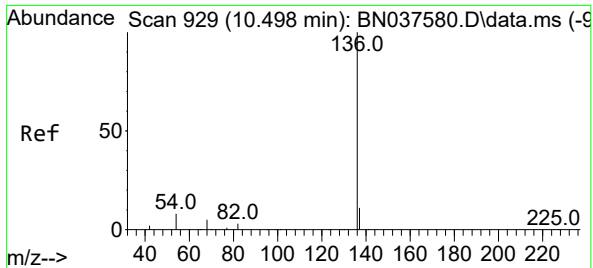
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 112     | 100   |       |       |
| 64      | 55.8  | 44.9  | 67.3  |
| 63      | 29.9  | 23.4  | 35.2  |



#5  
Phenol-d6  
Concen: 0.082 ng  
RT: 6.879 min Scan# 526  
Delta R.T. 0.000 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 32.2  | 18.5  | 27.7# |
| 71      | 40.9  | 28.6  | 42.8  |

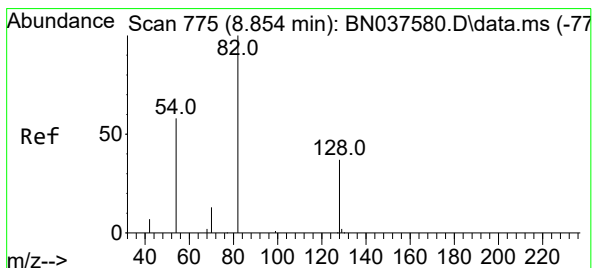
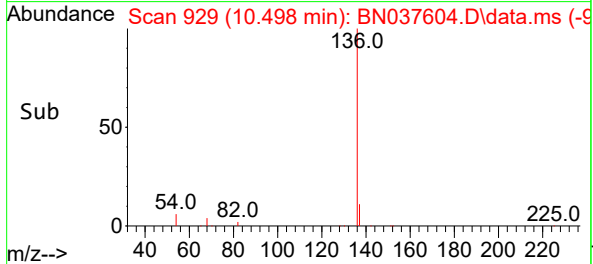
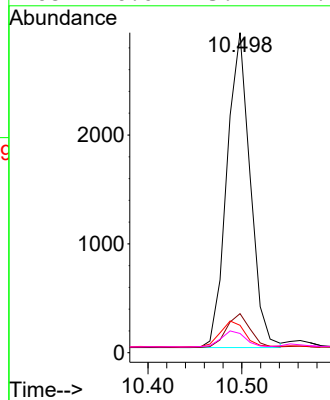
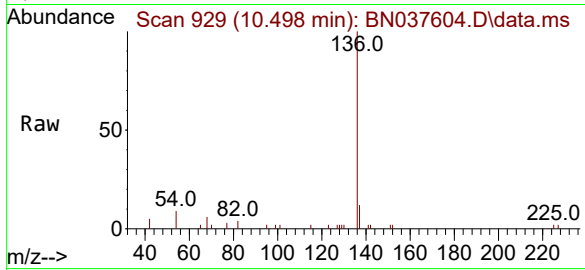




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

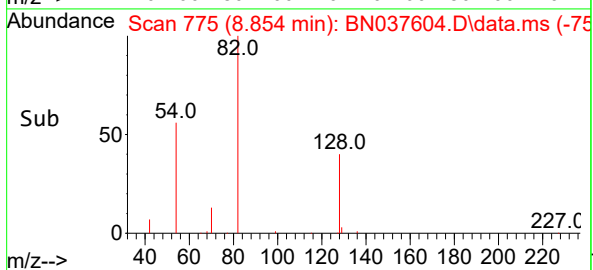
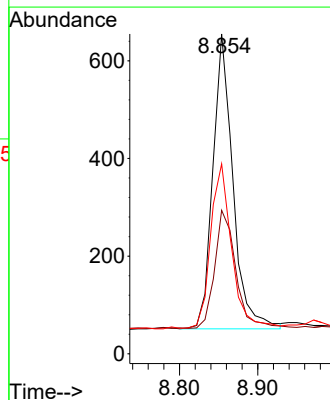
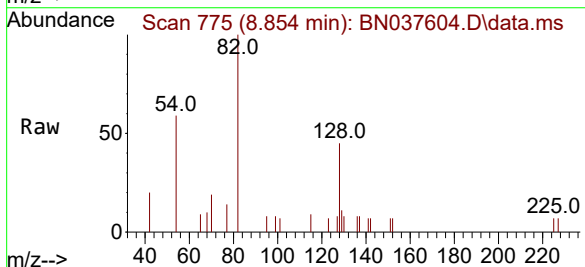
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225

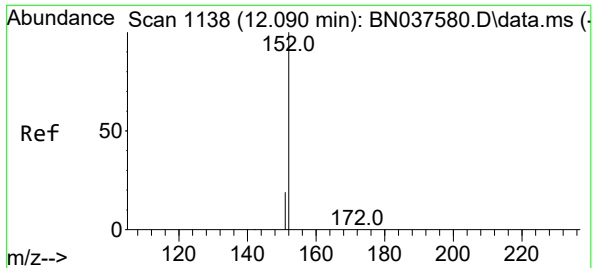
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4983  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.2  | 9.5   | 14.3  |
| 54       | 8.5   | 7.3   | 10.9  |
| 68       | 6.0   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.307 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1079  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 44.9  | 32.6  | 48.8  |
| 54       | 59.4  | 48.9  | 73.3  |

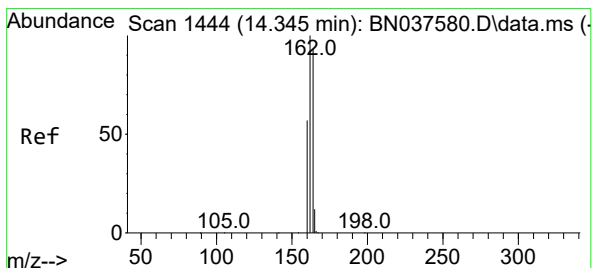
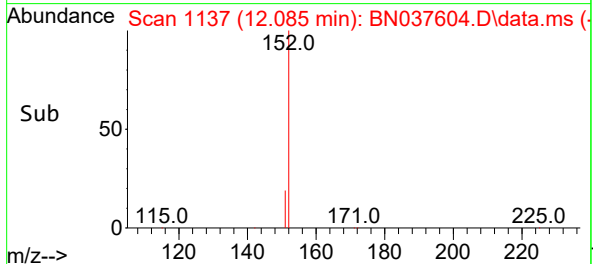
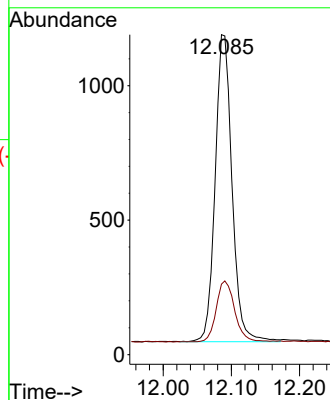
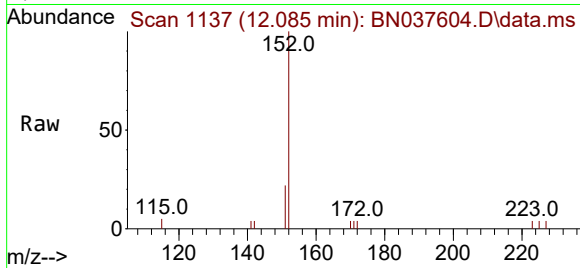




#11  
2-Methylnaphthalene-d10  
Concen: 0.290 ng  
RT: 12.085 min Scan# 1138  
Delta R.T. -0.005 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

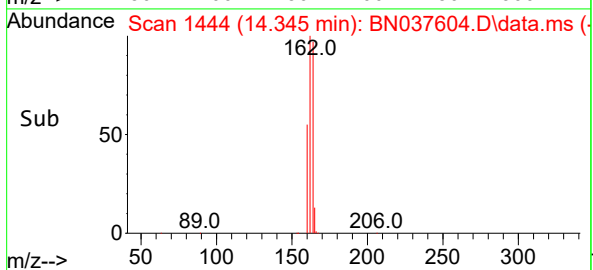
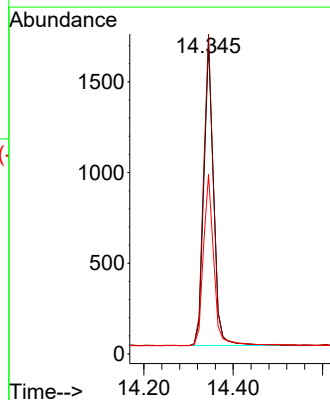
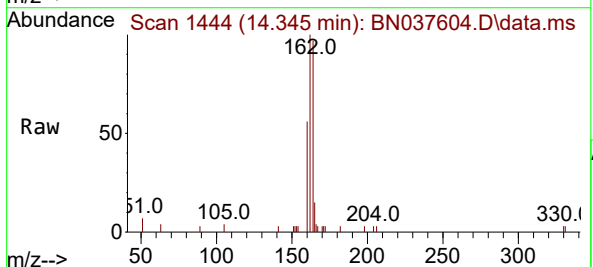
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225

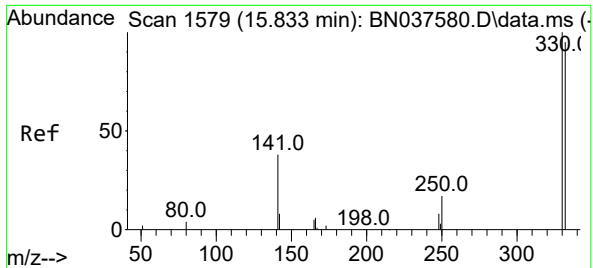
Tgt Ion:152 Resp: 1963  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.3 25.9



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

Tgt Ion:164 Resp: 2519  
Ion Ratio Lower Upper  
164 100  
162 102.9 85.5 128.3  
160 57.8 49.5 74.3

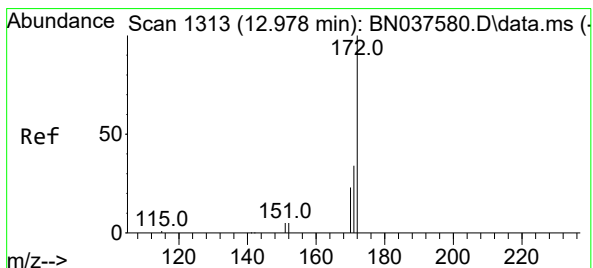
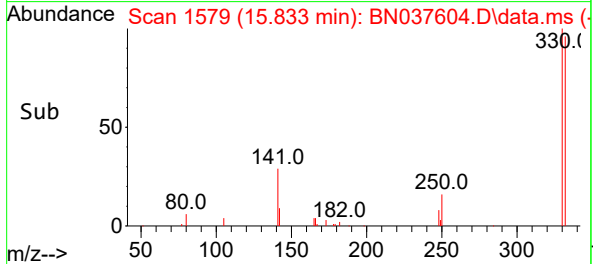
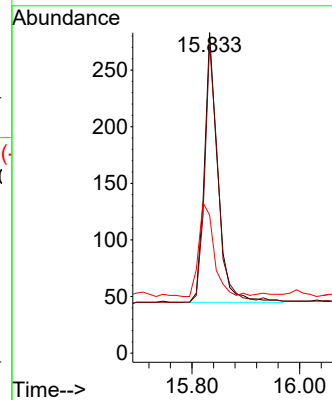
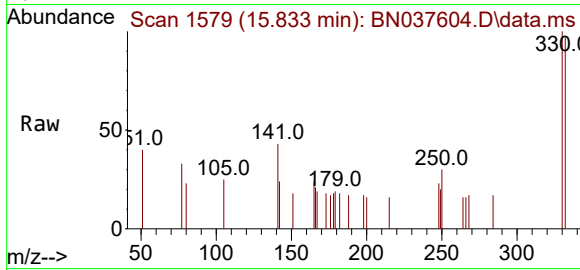




#14  
2,4,6-Tribromophenol  
Concen: 0.374 ng  
RT: 15.833 min Scan# 11  
Delta R.T. 0.000 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

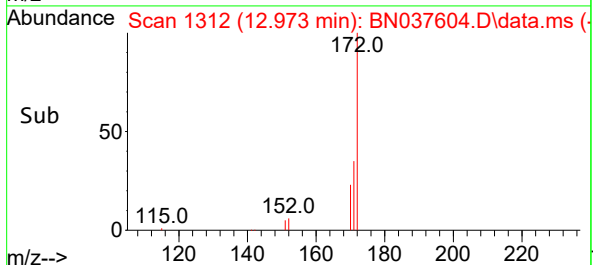
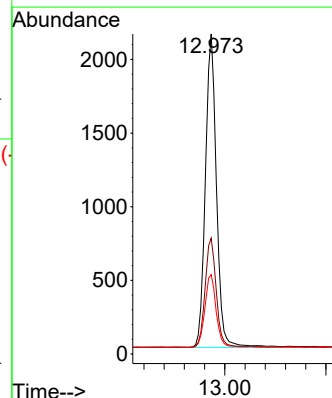
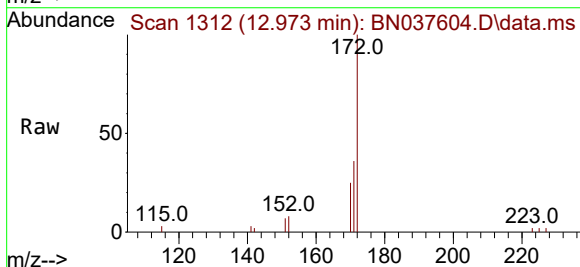
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225

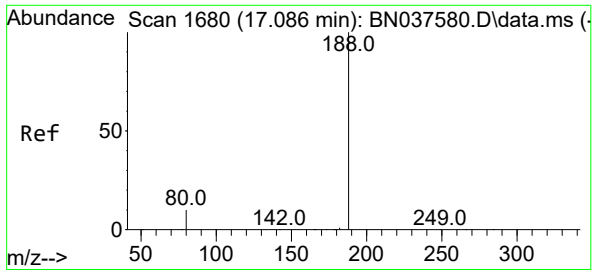
| Tgt Ion | 330   | Resp  | 412   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 330     | 100   |       |       |
| 332     | 94.7  | 77.4  | 116.0 |
| 141     | 40.0  | 30.9  | 46.3  |



#15  
2-Fluorobiphenyl  
Concen: 0.306 ng  
RT: 12.973 min Scan# 1312  
Delta R.T. -0.005 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

| Tgt Ion | 172   | Resp  | 4451  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 172     | 100   |       |       |
| 171     | 36.2  | 28.2  | 42.4  |
| 170     | 24.8  | 19.2  | 28.8  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1680

Delta R.T. 0.000 min

Lab File: BN037604.D

Acq: 19 Aug 2025 13:04

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225

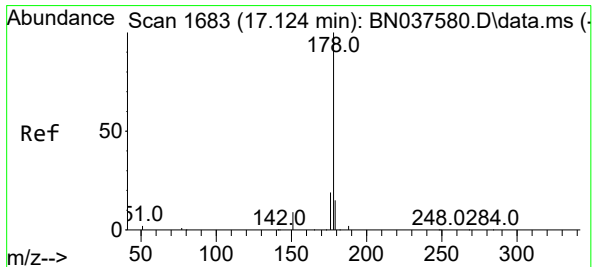
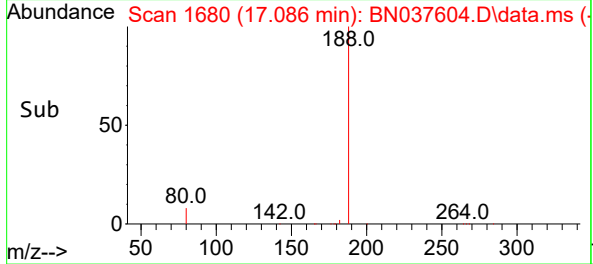
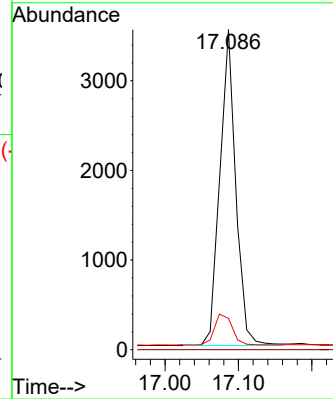
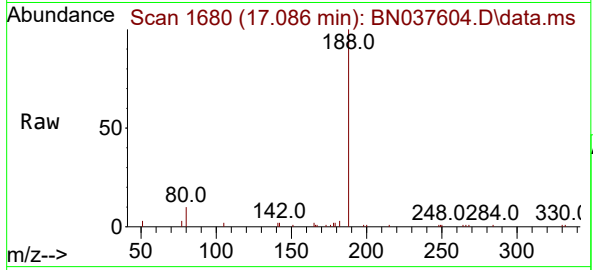
Tgt Ion:188 Resp: 5311

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.7 9.1 13.7



#25

Phenanthrene

Concen: 0.075 ng

RT: 17.124 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN037604.D

Acq: 19 Aug 2025 13:04

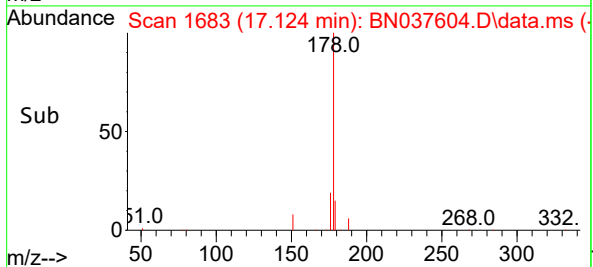
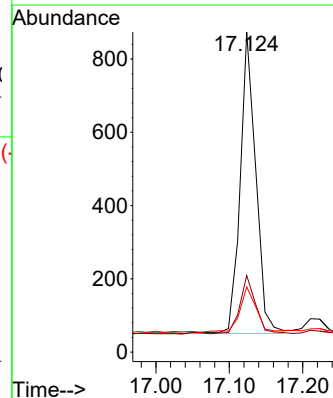
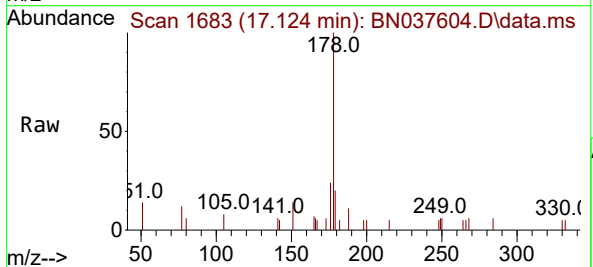
Tgt Ion:178 Resp: 1209

Ion Ratio Lower Upper

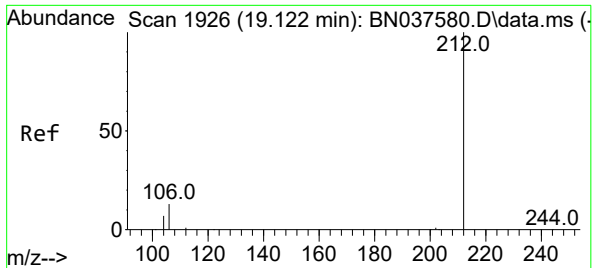
178 100

176 19.3 15.0 22.6

179 15.9 12.3 18.5



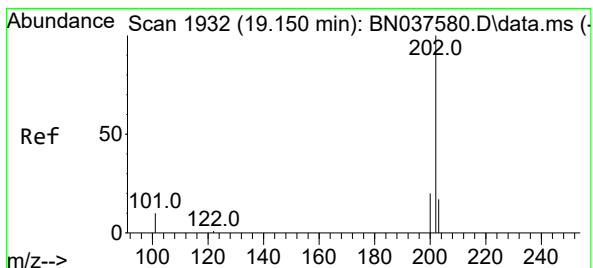
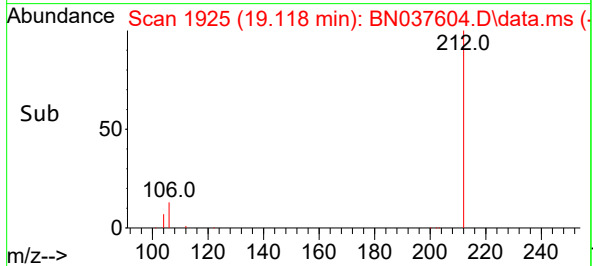
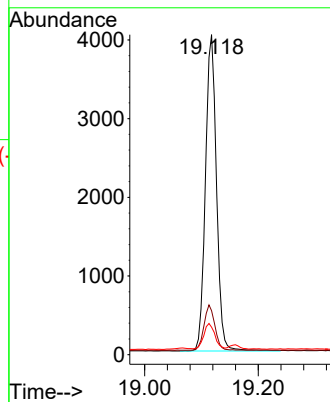
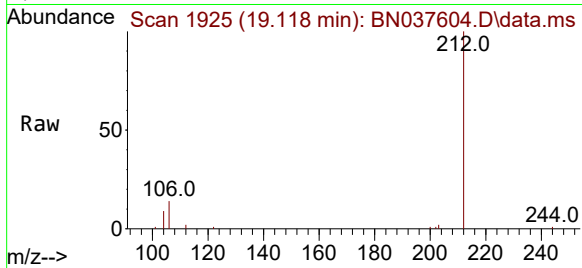




#27  
Fluoranthene-d10  
Concen: 0.387 ng  
RT: 19.118 min Scan# 1925  
Delta R.T. -0.005 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

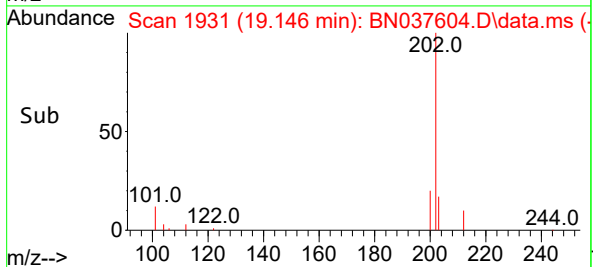
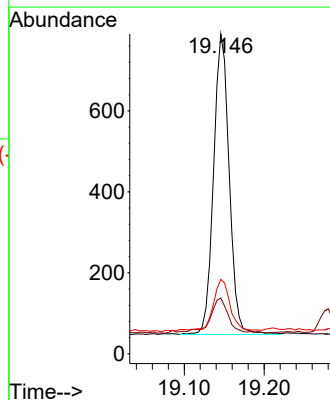
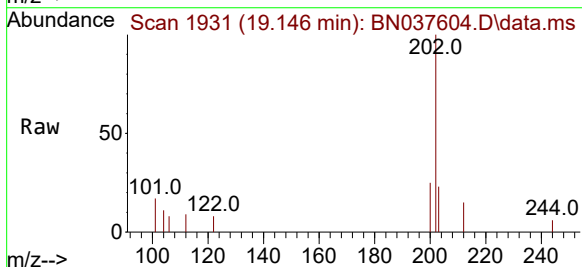
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225

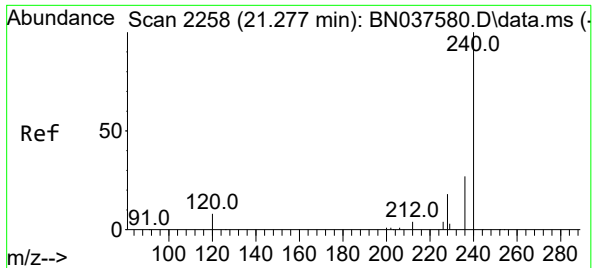
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 14.2  | 11.5  | 17.3  |
| 104     | 8.2   | 6.6   | 9.8   |



#28  
Fluoranthene  
Concen: 0.054 ng  
RT: 19.146 min Scan# 1931  
Delta R.T. -0.005 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 13.4  | 9.0   | 13.6  |
| 203     | 17.4  | 13.8  | 20.8  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037604.D

Acq: 19 Aug 2025 13:04

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225

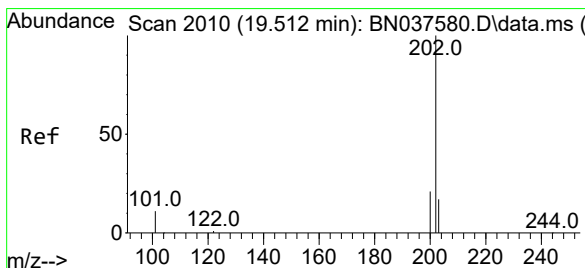
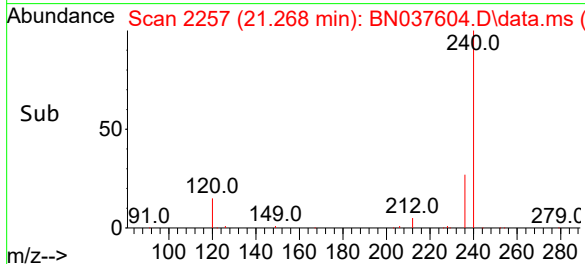
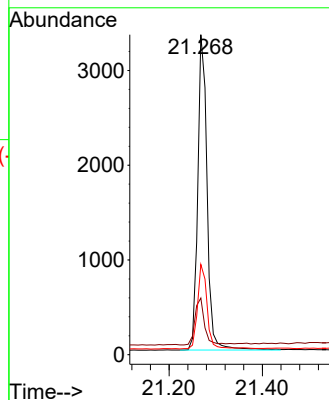
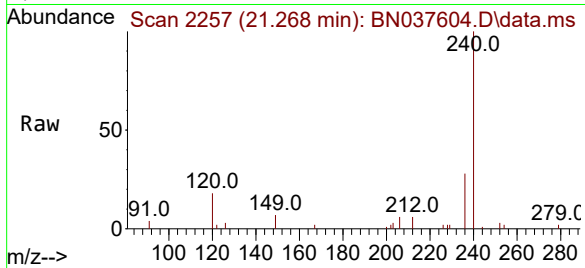
Tgt Ion:240 Resp: 4640

Ion Ratio Lower Upper

240 100

120 17.7 8.9 13.3#

236 28.2 22.6 33.8



#30

Pyrene

Concen: 0.037 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.005 min

Lab File: BN037604.D

Acq: 19 Aug 2025 13:04

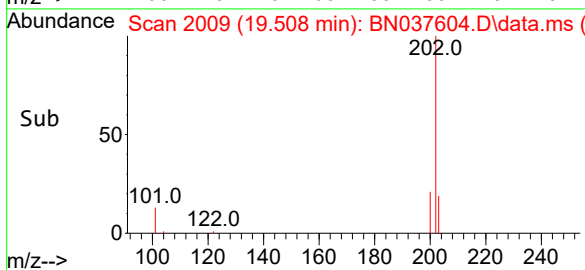
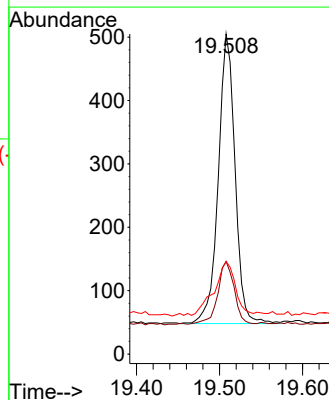
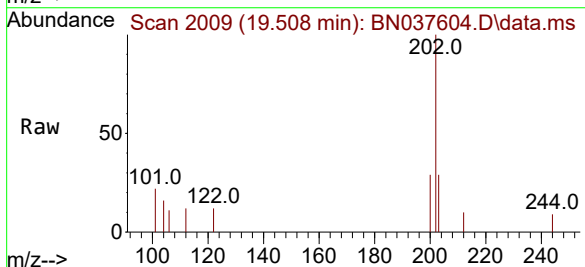
Tgt Ion:202 Resp: 640

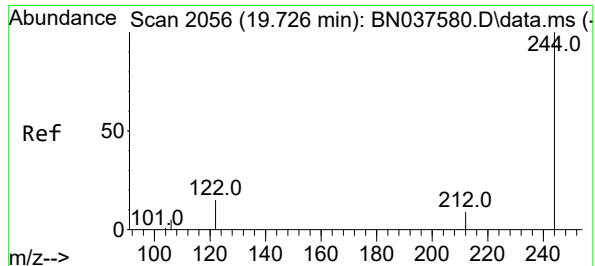
Ion Ratio Lower Upper

202 100

200 21.3 16.6 25.0

203 23.3 14.3 21.5#

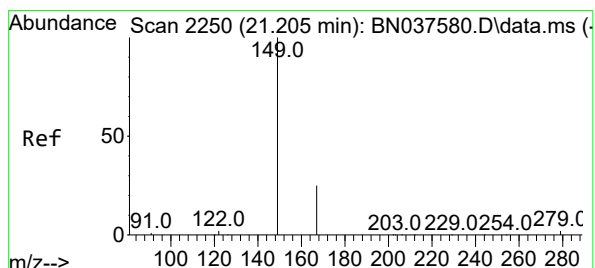
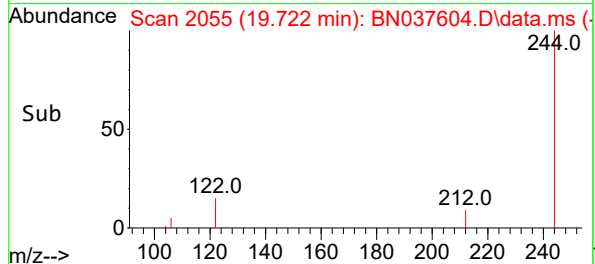
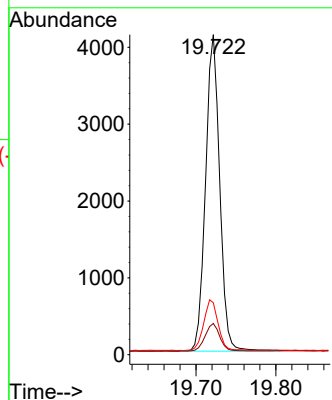
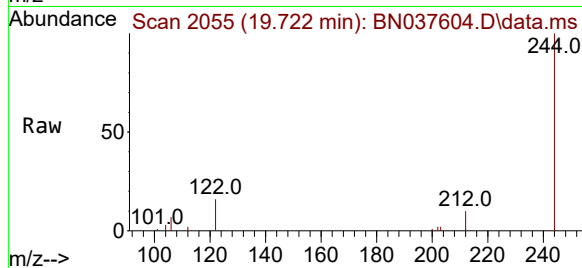




#31  
Terphenyl-d14  
Concen: 0.530 ng  
RT: 19.722 min Scan# 2055  
Delta R.T. -0.005 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

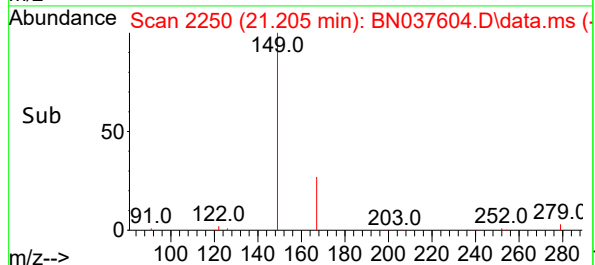
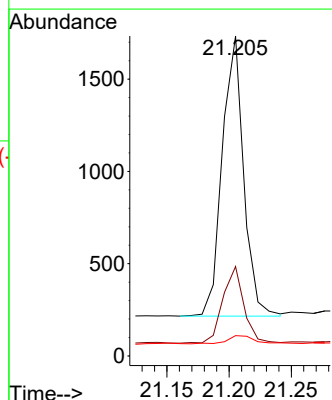
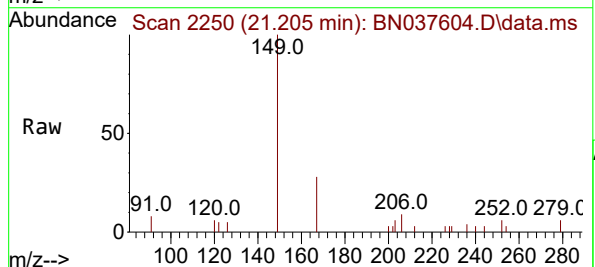
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225

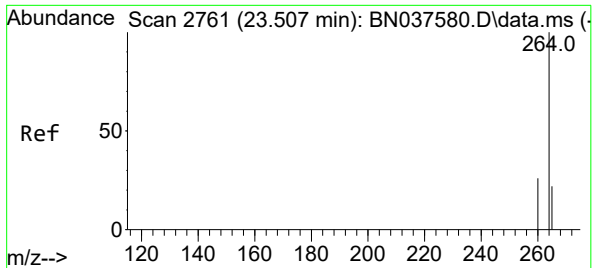
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.8   | 8.2   | 12.2  |
| 122     | 16.3  | 13.2  | 19.8  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.284 ng  
RT: 21.205 min Scan# 2250  
Delta R.T. 0.000 min  
Lab File: BN037604.D  
Acq: 19 Aug 2025 13:04

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 27.0  | 20.5  | 30.7  |
| 279     | 3.7   | 2.6   | 4.0   |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.505 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037604.D

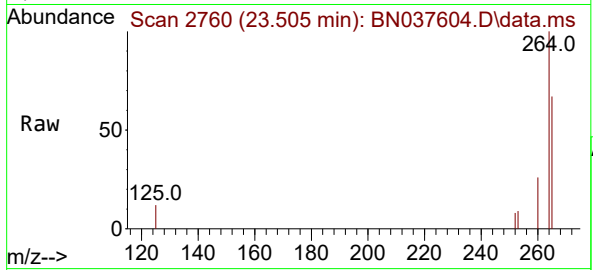
Acq: 19 Aug 2025 13:04

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225



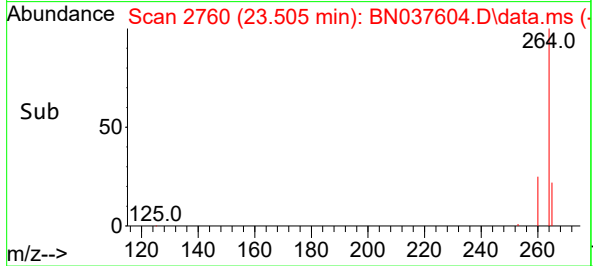
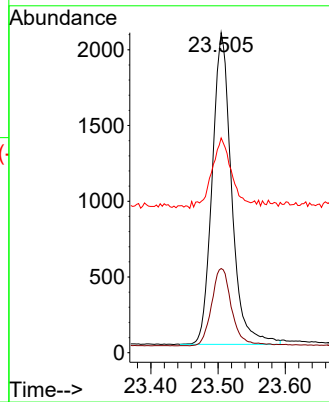
Tgt Ion:264 Resp: 4122

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 264 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 260 | 26.3 | 21.6 | 32.4 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 265 | 67.1 | 48.2 | 72.4 |
|-----|------|------|------|



## Report of Analysis

|                    |                                           |                 |                |
|--------------------|-------------------------------------------|-----------------|----------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: | 08/12/25       |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  | 08/12/25       |
| Client Sample ID:  | MW-06-6.5-081225                          | SDG No.:        | Q2842          |
| Lab Sample ID:     | Q2842-06                                  | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                                | % Solid:        | 0              |
| Sample Wt/Vol:     | 970      Units:    mL                     | Final Vol:      | 1000      uL   |
| Soil Aliquot Vol:  | uL                                        | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted :    N                           | Level :         | LOW            |
| Injection Volume : | GPC Factor :    1.0                       | GPC Cleanup :   | N      PH :    |
| Prep Method :      |                                           |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037607.D        | 1         | 08/18/25 08:41 | 08/19/25 14:53 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |                     |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.64  |           | 0.070               | 0.21       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |                     |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.26  |           | 30 (20) - 150 (139) | 66%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.36  |           | 30 (54) - 150 (157) | 89%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.30  |           | 30 (27) - 130 (154) | 75%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.35  |           | 30 (30) - 130 (155) | 87%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.43  |           | 30 (54) - 130 (175) | 108%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |                     |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2140  | 7.717     |                     |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5180  | 10.498    |                     |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2600  | 14.345    |                     |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5520  | 17.086    |                     |            |          |
| 1719-03-5                 | Chrysene-d12            | 4980  | 21.268    |                     |            |          |
| 1520-96-3                 | Perylene-d12            | 4420  | 23.505    |                     |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037607.D  
 Acq On : 19 Aug 2025 14:53  
 Operator : RC/JU  
 Sample : Q2842-06  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-06-6.5-081225

Quant Time: Aug 20 01:26:37 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

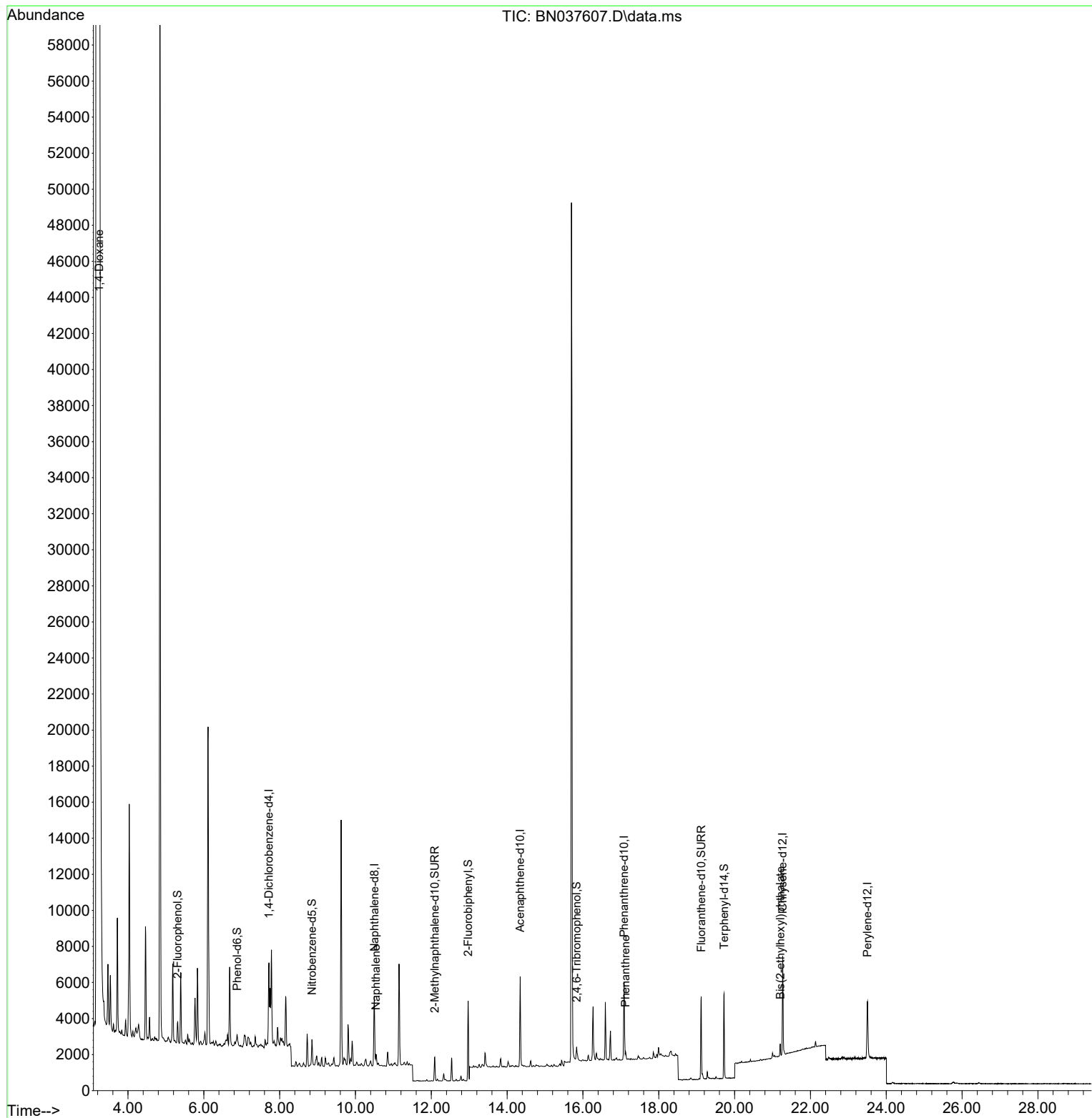
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 2139     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 5184     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2604     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 5518     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 4981     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.505 | 264  | 4415     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 635      | 0.131 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 478      | 0.082 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 1097     | 0.300 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.090 | 152  | 1850     | 0.263 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 419      | 0.368 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 5251     | 0.349 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.118 | 212  | 5180     | 0.357 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.722 | 244  | 4411     | 0.430 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.239  | 88   | 1272     | 0.622 | ng    | # 3      |
| 9) Naphthalene                | 10.541 | 128  | 796      | 0.058 | ng    | # 80     |
| 25) Phenanthrene              | 17.124 | 178  | 436      | 0.026 | ng    | # 91     |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 727      | 0.106 | ng    | # 99     |
| -----                         |        |      |          |       |       |          |

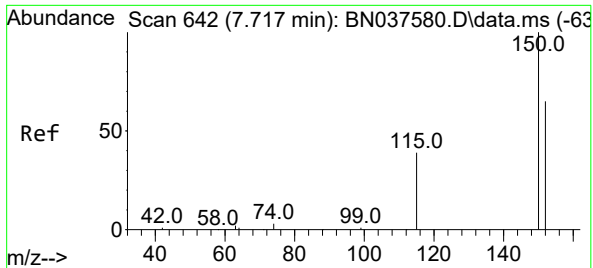
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037607.D  
Acq On : 19 Aug 2025 14:53  
Operator : RC/JU  
Sample : Q2842-06  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
MW-06-6.5-081225

Quant Time: Aug 20 01:26:37 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration

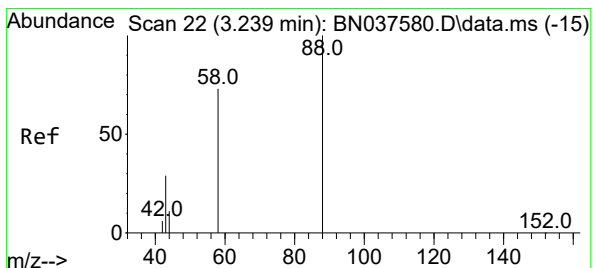
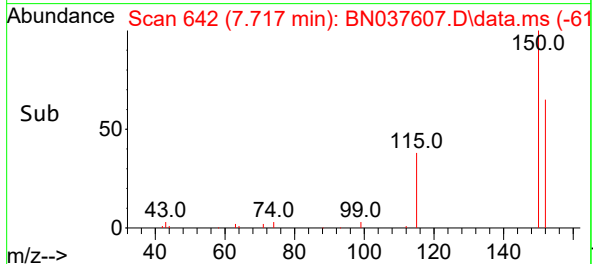
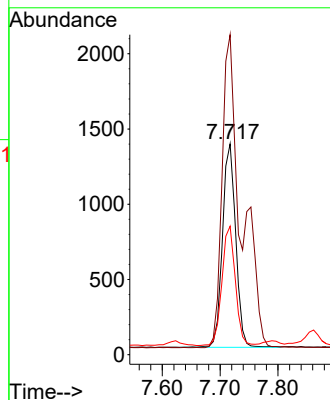
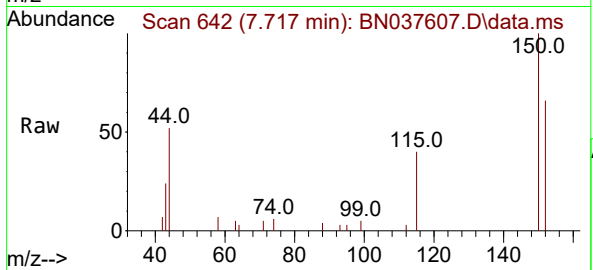




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

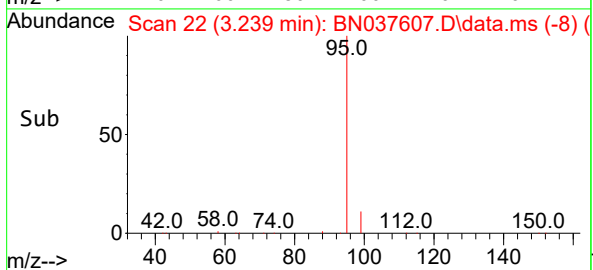
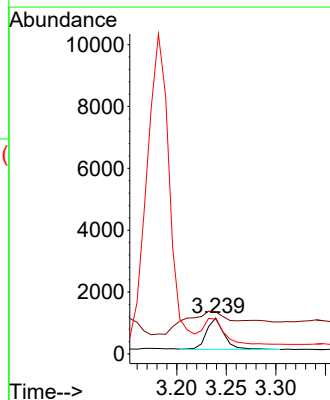
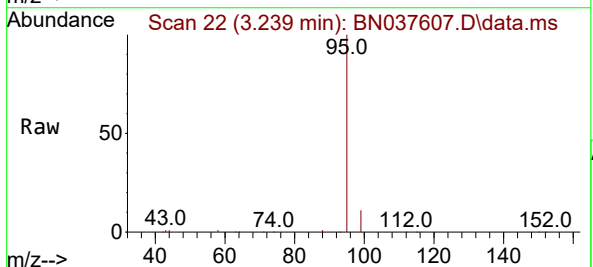
Instrument :  
BNA\_N  
ClientSampleId :  
MW-06-6.5-081225

Tgt Ion:152 Resp: 2139  
Ion Ratio Lower Upper  
152 100  
150 151.7 122.2 183.4  
115 60.9 49.8 74.6



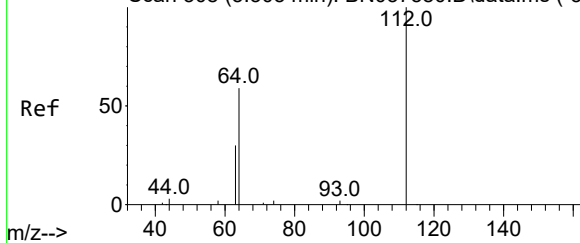
#2  
1,4-Dioxane  
Concen: 0.622 ng  
RT: 3.239 min Scan# 22  
Delta R.T. 0.000 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

Tgt Ion: 88 Resp: 1272  
Ion Ratio Lower Upper  
88 100  
43 185.2 25.8 38.6#  
58 96.1 61.2 91.8#





Abundance Scan 308 (5.305 min): BN037580.D\data.ms (-30



#4

2-Fluorophenol

Concen: 0.131 ng

RT: 5.305 min Scan# 308

Delta R.T. 0.000 min

Lab File: BN037607.D

Acq: 19 Aug 2025 14:53

Instrument :

BNA\_N

ClientSampleId :

MW-06-6.5-081225

Tgt Ion:112 Resp: 635

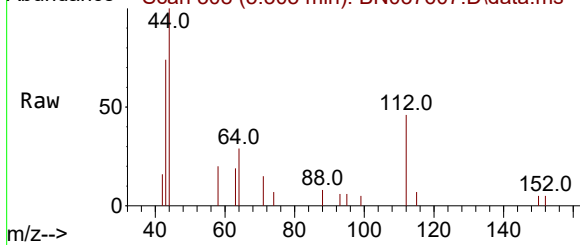
Ion Ratio Lower Upper

112 100

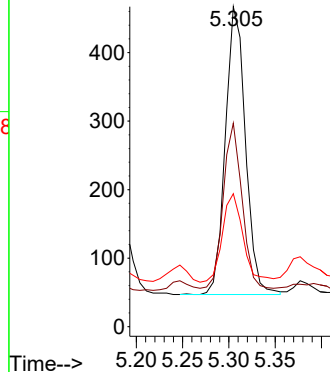
64 55.3 44.9 67.3

63 31.7 23.4 35.2

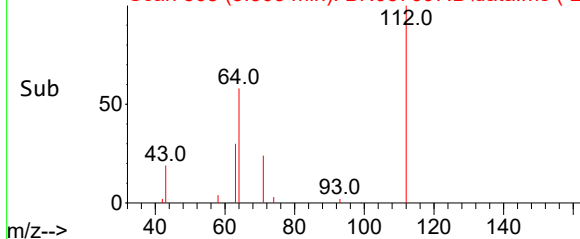
Abundance Scan 308 (5.305 min): BN037607.D\data.ms



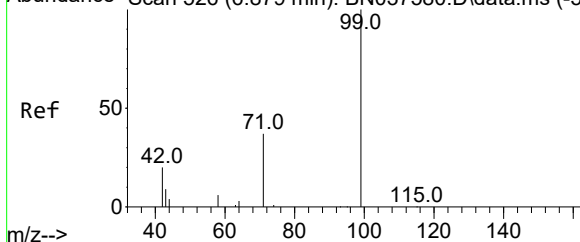
Abundance



Abundance Scan 308 (5.305 min): BN037607.D\data.ms (-28



Abundance Scan 526 (6.879 min): BN037580.D\data.ms (-51



#5

Phenol-d6

Concen: 0.082 ng

RT: 6.879 min Scan# 526

Delta R.T. 0.000 min

Lab File: BN037607.D

Acq: 19 Aug 2025 14:53

Tgt Ion: 99 Resp: 478

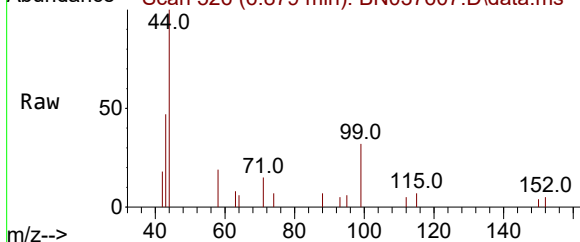
Ion Ratio Lower Upper

99 100

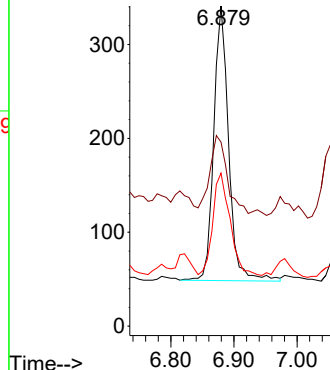
42 32.0 18.5 27.7#

71 43.9 28.6 42.8#

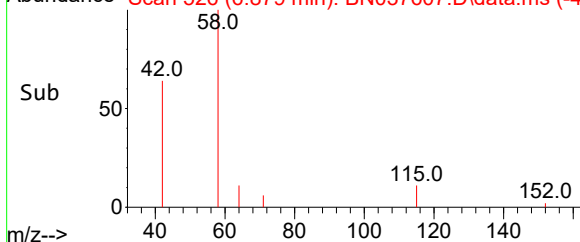
Abundance Scan 526 (6.879 min): BN037607.D\data.ms

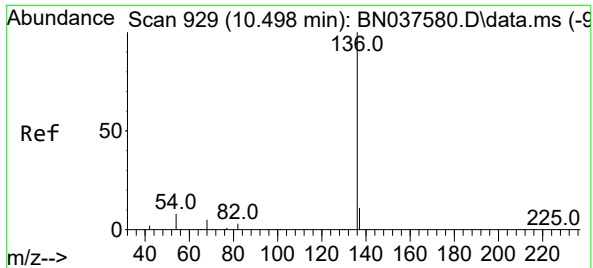


Abundance



Abundance Scan 526 (6.879 min): BN037607.D\data.ms (-49

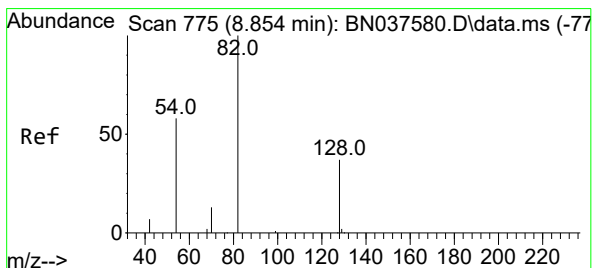
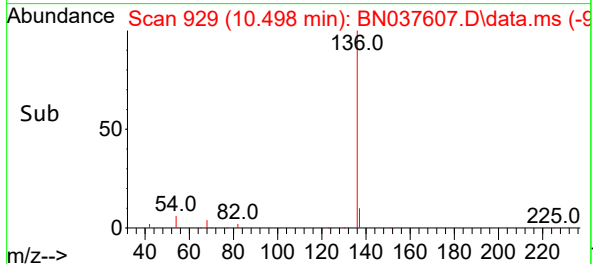
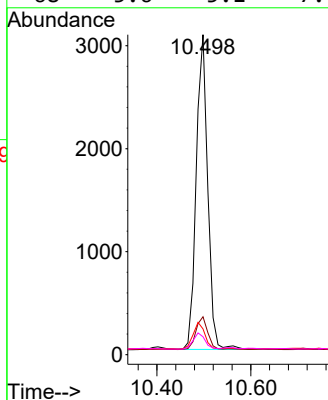
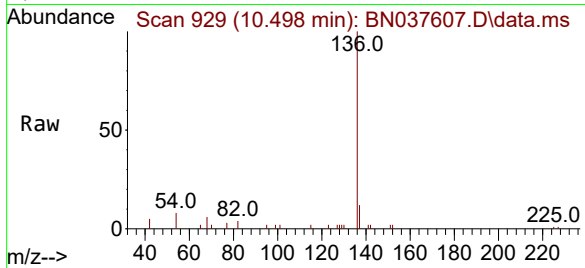




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

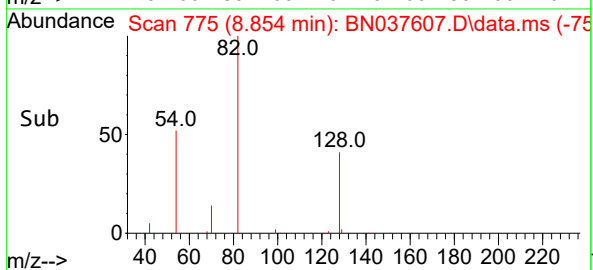
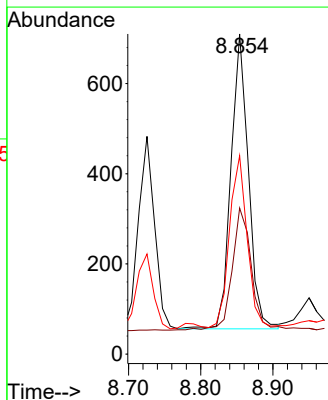
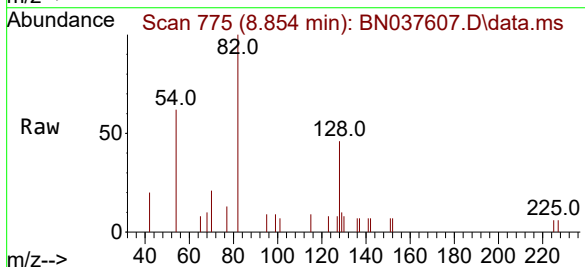
Instrument :  
BNA\_N  
ClientSampleId :  
MW-06-6.5-081225

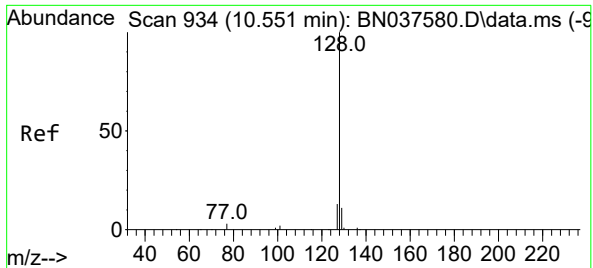
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5184  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.9  | 9.5   | 14.3  |
| 54       | 8.1   | 7.3   | 10.9  |
| 68       | 5.6   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.300 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1097  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.6  | 32.6  | 48.8  |
| 54       | 62.0  | 48.9  | 73.3  |

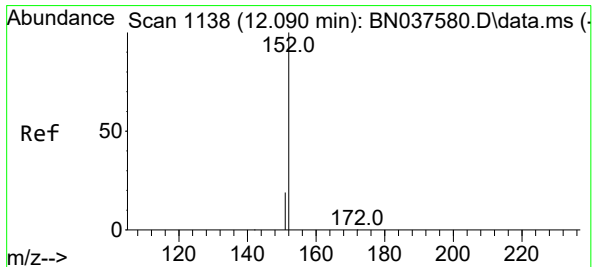
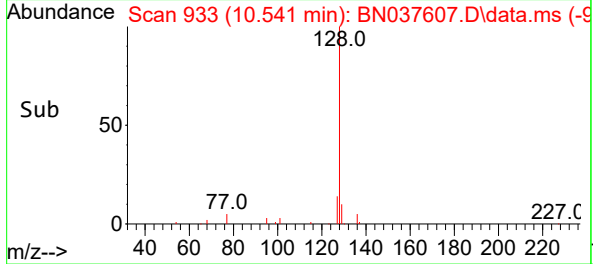
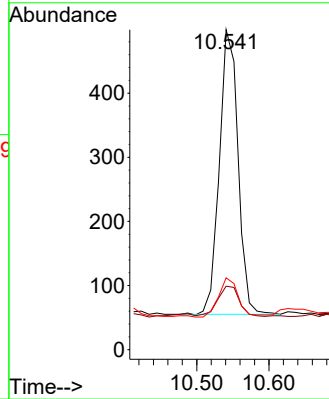
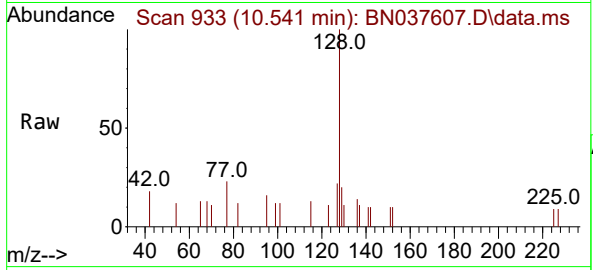




#9  
Naphthalene  
Concen: 0.058 ng  
RT: 10.541 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

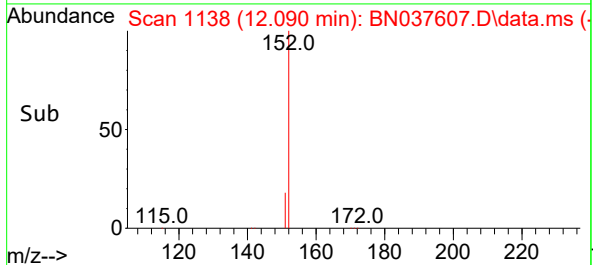
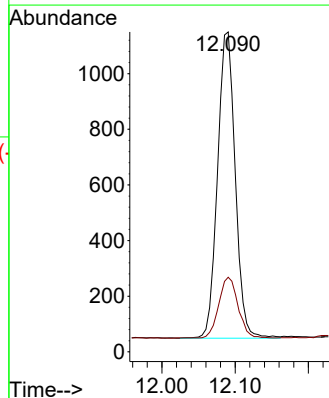
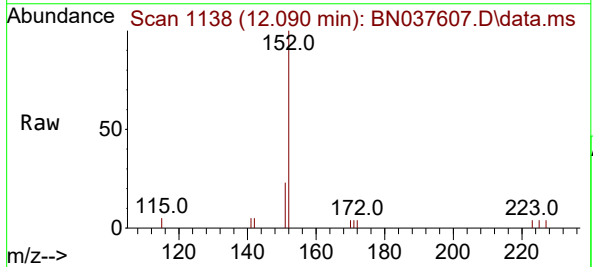
Instrument :  
BNA\_N  
ClientSampleId :  
MW-06-6.5-081225

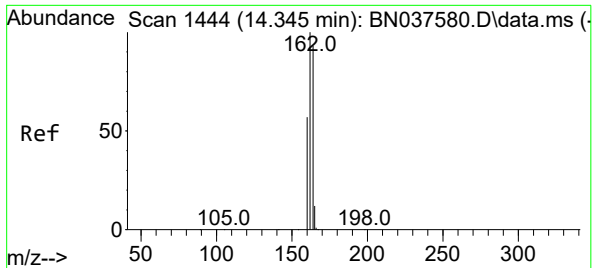
Tgt Ion:128 Resp: 796  
Ion Ratio Lower Upper  
128 100  
129 19.8 9.8 14.6#  
127 22.4 11.5 17.3#



#11  
2-Methylnaphthalene-d10  
Concen: 0.263 ng  
RT: 12.090 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

Tgt Ion:152 Resp: 1850  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.3 25.9

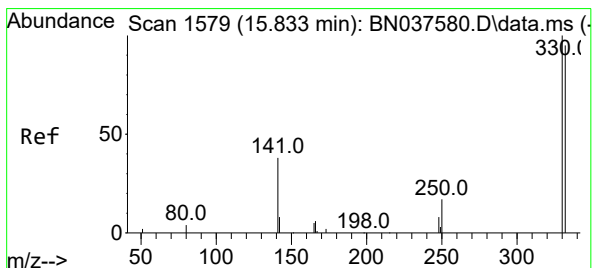
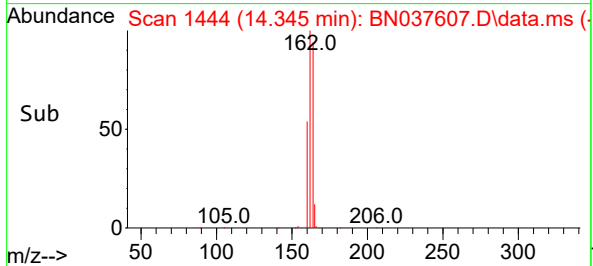
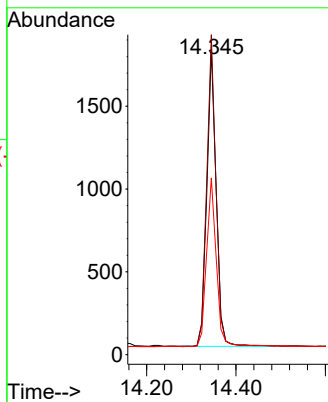
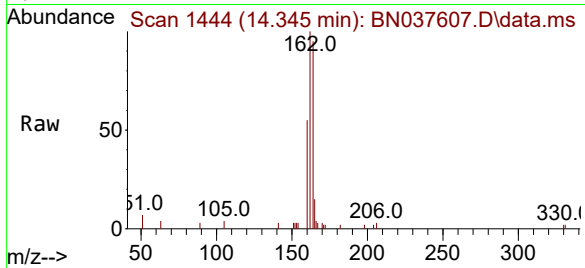




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

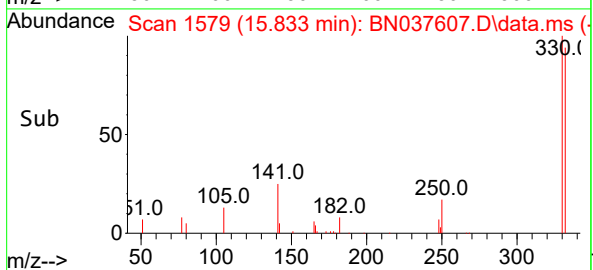
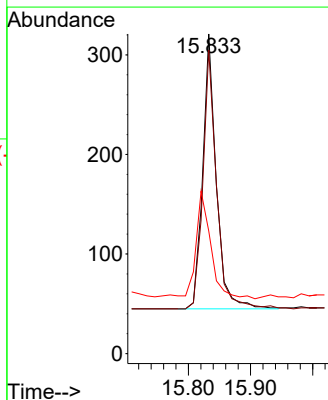
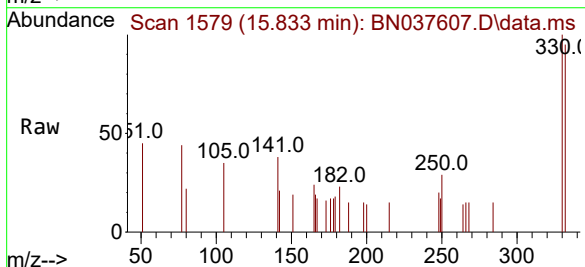
Instrument :  
BNA\_N  
ClientSampleId :  
MW-06-6.5-081225

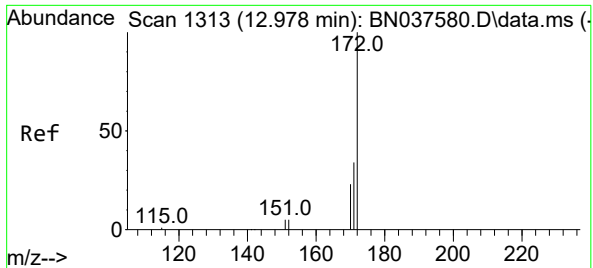
Tgt Ion:164 Resp: 2604  
Ion Ratio Lower Upper  
164 100  
162 104.8 85.5 128.3  
160 57.9 49.5 74.3



#14  
2,4,6-Tribromophenol  
Concen: 0.368 ng  
RT: 15.833 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

Tgt Ion:330 Resp: 419  
Ion Ratio Lower Upper  
330 100  
332 95.2 77.4 116.0  
141 44.6 30.9 46.3

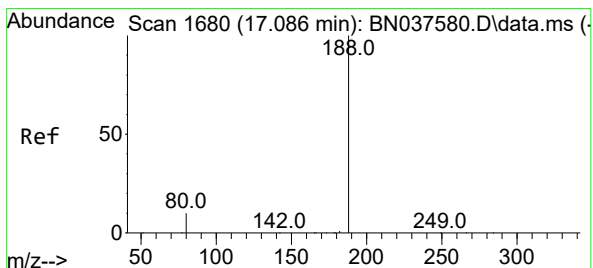
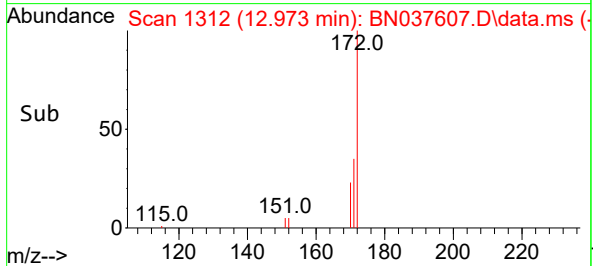
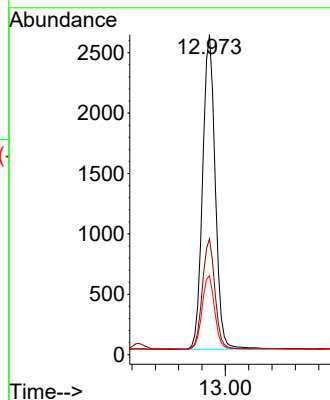
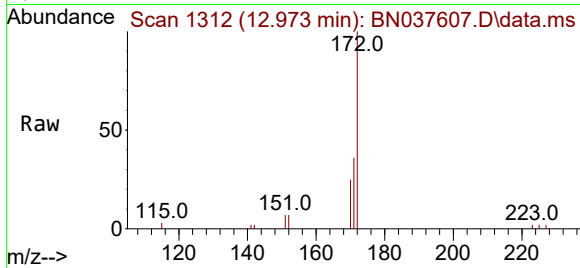




#15  
2-Fluorobiphenyl  
Concen: 0.349 ng  
RT: 12.973 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

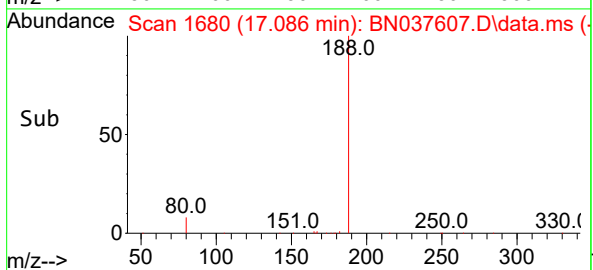
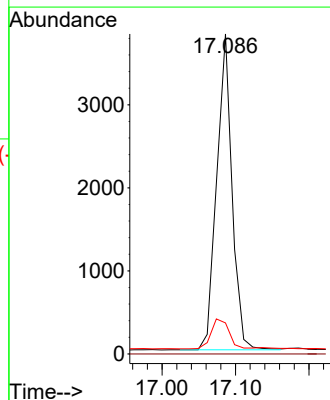
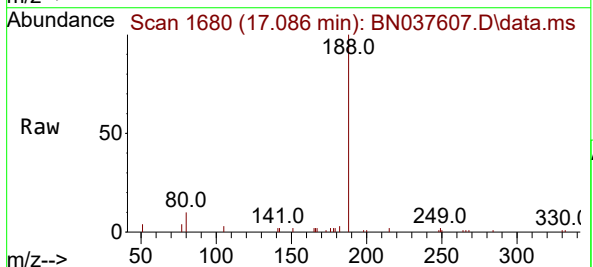
Instrument :  
BNA\_N  
ClientSampleId :  
MW-06-6.5-081225

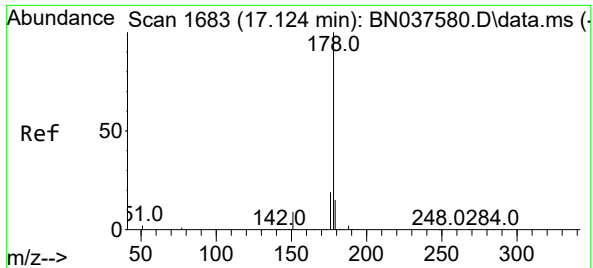
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 5251  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.2  | 28.2  | 42.4  |
| 170      | 24.7  | 19.2  | 28.8  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.086 min Scan# 1680  
Delta R.T. 0.000 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 188   | Resp: | 5518  |
| Ion      | Ratio | Lower | Upper |
| 188      | 100   |       |       |
| 94       | 0.0   | 0.0   | 0.0   |
| 80       | 9.7   | 9.1   | 13.7  |

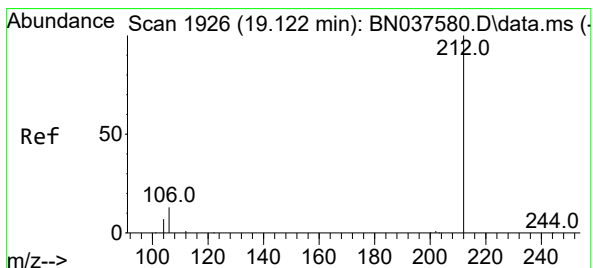
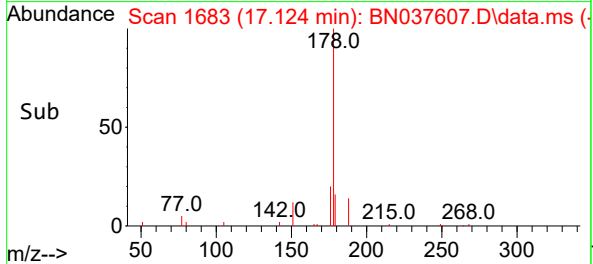
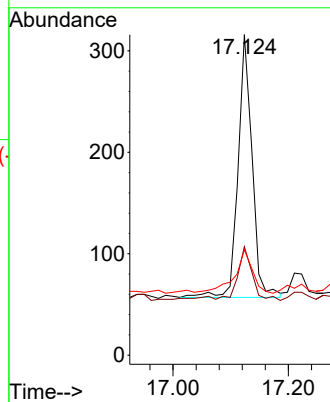
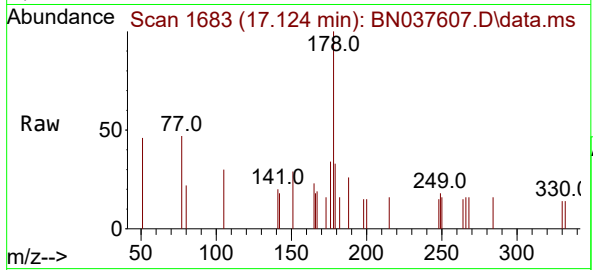




#25  
Phenanthrene  
Concen: 0.026 ng  
RT: 17.124 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

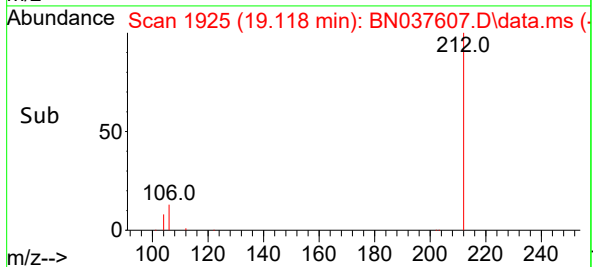
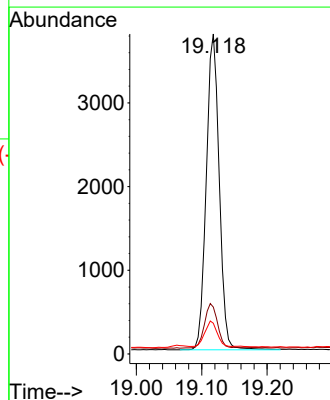
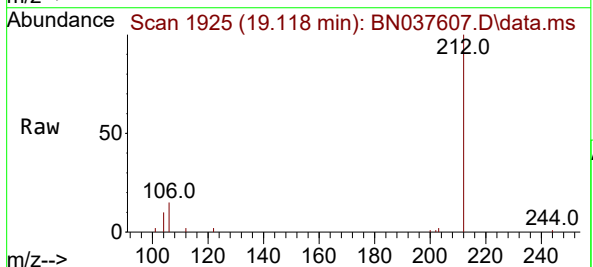
Instrument :  
BNA\_N  
ClientSampleId :  
MW-06-6.5-081225

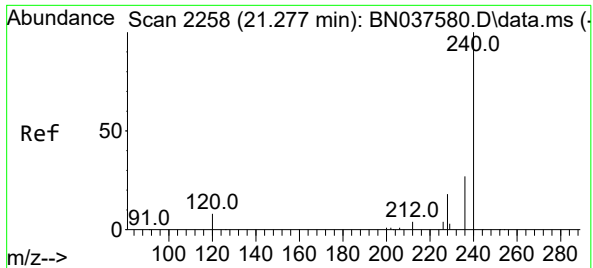
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 20.9  | 15.0  | 22.6  |
| 179     | 21.6  | 12.3  | 18.5  |



#27  
Fluoranthene-d10  
Concen: 0.357 ng  
RT: 19.118 min Scan# 1925  
Delta R.T. -0.005 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 14.3  | 11.5  | 17.3  |
| 104     | 7.7   | 6.6   | 9.8   |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037607.D

Acq: 19 Aug 2025 14:53

Instrument :

BNA\_N

ClientSampleId :

MW-06-6.5-081225

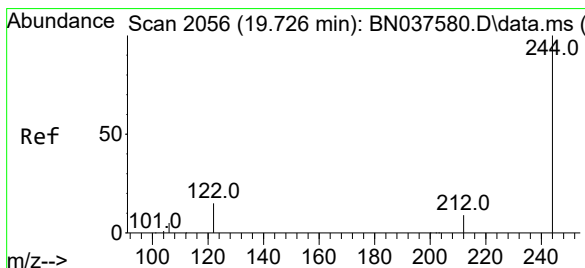
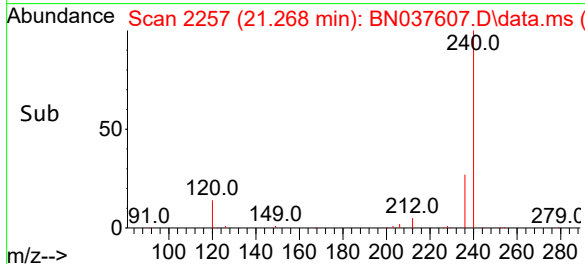
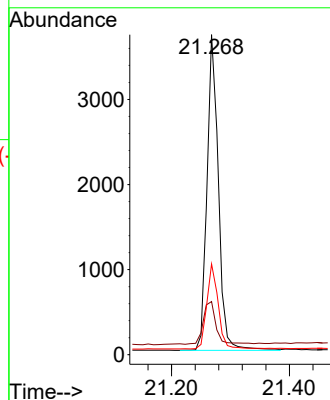
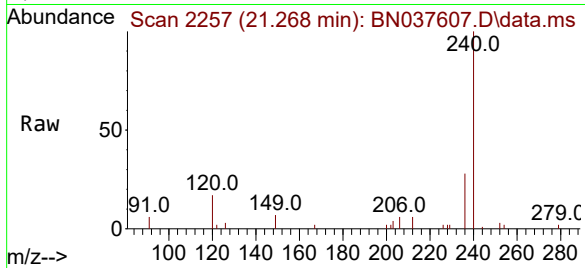
Tgt Ion:240 Resp: 4981

Ion Ratio Lower Upper

240 100

120 16.6 8.9 13.3#

236 28.4 22.6 33.8



#31

Terphenyl-d14

Concen: 0.430 ng

RT: 19.722 min Scan# 2055

Delta R.T. -0.005 min

Lab File: BN037607.D

Acq: 19 Aug 2025 14:53

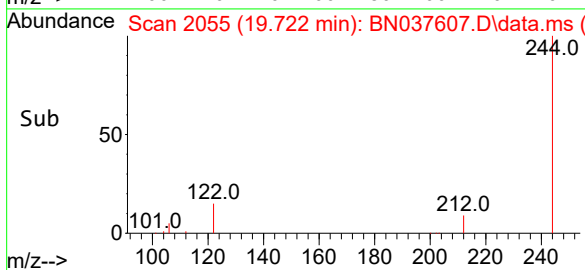
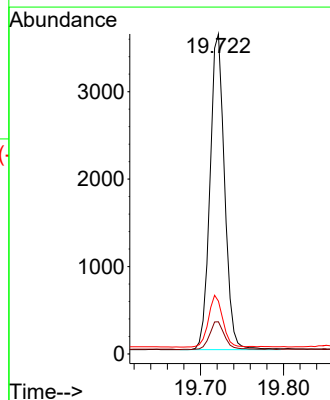
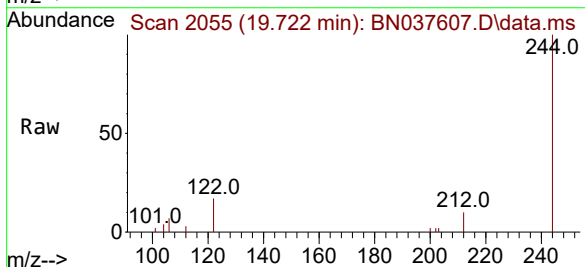
Tgt Ion:244 Resp: 4411

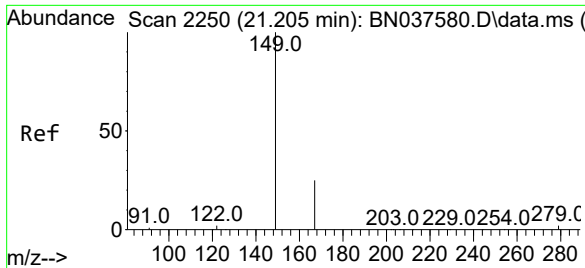
Ion Ratio Lower Upper

244 100

212 10.1 8.2 12.2

122 16.5 13.2 19.8

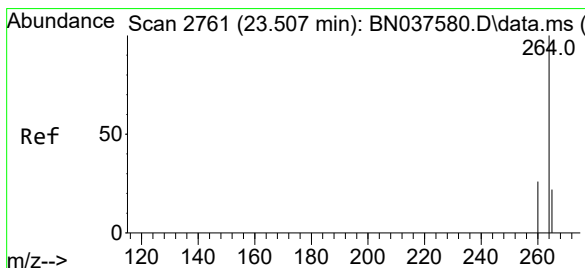
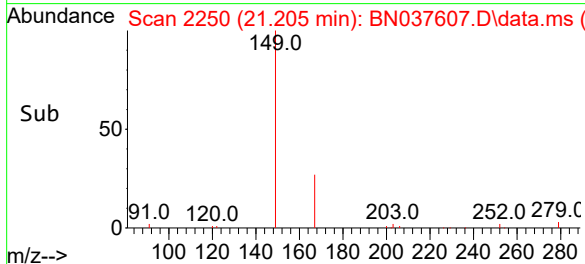
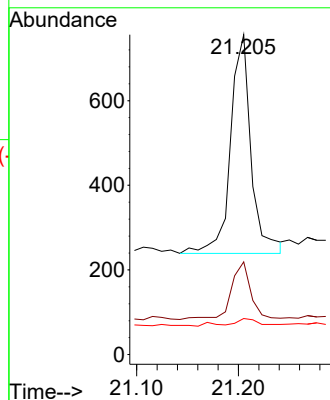
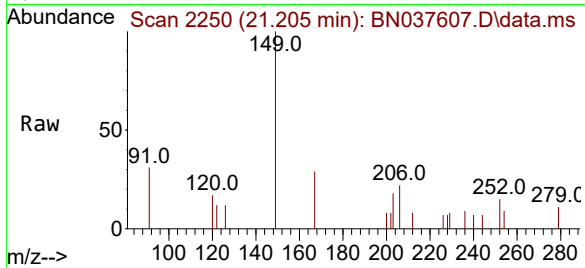




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.106 ng  
RT: 21.205 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

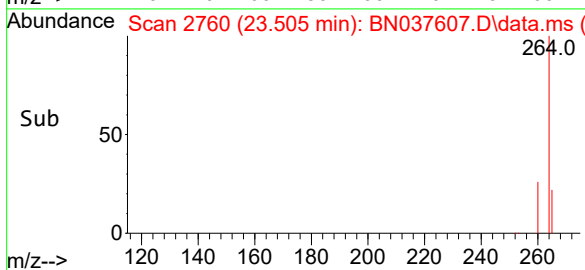
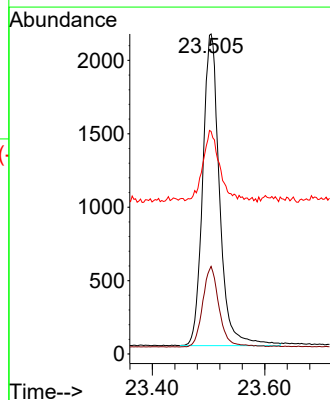
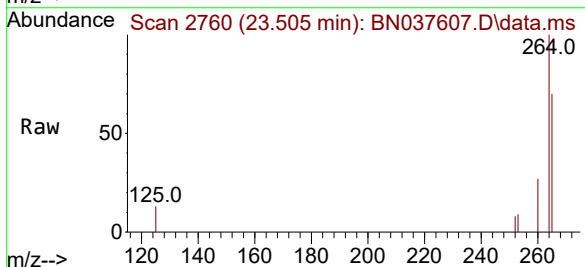
Instrument :  
BNA\_N  
ClientSampleId :  
MW-06-6.5-081225

Tgt Ion:149 Resp: 727  
Ion Ratio Lower Upper  
149 100  
167 25.0 20.5 30.7  
279 2.5 2.6 4.0#



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.505 min Scan# 2760  
Delta R.T. -0.003 min  
Lab File: BN037607.D  
Acq: 19 Aug 2025 14:53

Tgt Ion:264 Resp: 4415  
Ion Ratio Lower Upper  
264 100  
260 27.4 21.6 32.4  
265 69.5 48.2 72.4







# CALIBRATION SUMMARY

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN081225.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Wed Aug 13 05:00:58 2025  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN037578.D 0.2 =BN037579.D 0.4 =BN037580.D 0.8 =BN037581.D 1.6 =BN037582.D 3.2 =BN037583.D 5 =BN037584.D

|           | Compound              | 0.1            | 0.2   | 0.4   | 0.8   | 1.6   | 3.2   | 5     | Avg   | %RSD  |
|-----------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| -----     |                       |                |       |       |       |       |       |       |       |       |
| 1) I      | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2)        | 1,4-Dioxane           | 0.413          | 0.395 | 0.368 | 0.397 | 0.375 | 0.348 | 0.383 |       | 6.08  |
| 3)        | n-Nitrosodimet...     | 0.471          | 0.488 | 0.471 | 0.493 | 0.503 | 0.508 | 0.489 |       | 3.19  |
| 4) S      | 2-Fluorophenol        | 0.922          | 0.945 | 0.888 | 0.823 | 0.886 | 0.906 | 0.977 | 0.907 | 5.41  |
| 5) S      | Phenol-d6             | 1.045          | 1.051 | 1.044 | 0.983 | 1.198 | 1.117 | 1.201 | 1.091 | 7.66  |
| 6)        | bis(2-Chloroet...     | 0.935          | 0.987 | 0.976 | 0.936 | 1.020 | 1.008 | 1.022 | 0.983 | 3.75  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 7) I      | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 8) S      | Nitrobenzene-d5       | 0.270          | 0.257 | 0.262 | 0.264 | 0.292 | 0.301 | 0.326 | 0.282 | 9.03  |
| 9)        | Naphthalene           | 1.044          | 1.050 | 1.037 | 1.012 | 1.089 | 1.096 | 1.127 | 1.065 | 3.78  |
| 10)       | Hexachlorobuta...     | 0.252          | 0.258 | 0.262 | 0.253 | 0.267 | 0.264 | 0.265 | 0.260 | 2.22  |
| 11) SURR2 | Methylnaphth...       | 0.488          | 0.492 | 0.508 | 0.493 | 0.543 | 0.578 | 0.705 | 0.544 | 14.39 |
| 12)       | 2-Methylnaphth...     | 0.589          | 0.631 | 0.635 | 0.629 | 0.701 | 0.731 | 0.760 | 0.668 | 9.39  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 13) I     | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 14) S     | 2,4,6-Tribromo...     | 0.139          | 0.149 | 0.156 | 0.160 | 0.185 | 0.203 | 0.234 | 0.175 | 19.39 |
| 15) S     | 2-Fluorobiphenyl      | 2.226          | 2.243 | 2.300 | 2.251 | 2.341 | 2.391 | 2.440 | 2.313 | 3.50  |
| 16)       | Acenaphthylene        | 1.740          | 1.760 | 1.710 | 1.653 | 1.850 | 1.858 | 1.980 | 1.793 | 6.15  |
| 17)       | Acenaphthene          | 1.144          | 1.150 | 1.172 | 1.154 | 1.283 | 1.286 | 1.348 | 1.220 | 6.86  |
| 18)       | Fluorene              | 1.466          | 1.510 | 1.524 | 1.521 | 1.686 | 1.693 | 1.770 | 1.596 | 7.38  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 19) I     | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 20)       | 4,6-Dinitro-2-...     | 0.042          | 0.046 | 0.047 | 0.061 | 0.070 |       | 0.053 |       | 22.37 |
| 21)       | 4-Bromophenyl-...     | 0.226          | 0.236 | 0.234 | 0.237 | 0.265 | 0.271 | 0.292 | 0.251 | 9.77  |
| 22)       | Hexachlorobenzene     | 0.360          | 0.360 | 0.356 | 0.332 | 0.364 | 0.354 | 0.370 | 0.356 | 3.37  |
| 23)       | Atrazine              | 0.127          | 0.126 | 0.130 | 0.134 | 0.160 | 0.176 |       | 0.142 | 14.76 |
| 24)       | Pentachlorophenol     |                | 0.108 | 0.113 | 0.113 | 0.139 | 0.152 |       | 0.125 | 15.36 |
| 25)       | Phenanthrene          | 1.146          | 1.162 | 1.170 | 1.138 | 1.281 | 1.269 | 1.347 | 1.216 | 6.72  |
| 26)       | Anthracene            | 0.950          | 0.985 | 0.995 | 0.988 | 1.145 | 1.186 | 1.286 | 1.077 | 11.93 |
| 27) SURR  | Fluoranthene-d10      | 0.932          | 0.966 | 0.954 | 0.935 | 1.050 | 1.110 | 1.419 | 1.052 | 16.61 |
| 28)       | Fluoranthene          | 1.241          | 1.264 | 1.299 | 1.291 | 1.503 | 1.533 | 1.648 | 1.397 | 11.53 |
|           |                       |                |       |       |       |       |       |       |       |       |
| 29) I     | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |
| 30)       | Pyrene                | 1.539          | 1.486 | 1.464 | 1.403 | 1.502 | 1.520 | 1.552 | 1.495 | 3.38  |
| 31) S     | Terphenyl-d14         | 0.814          | 0.801 | 0.796 | 0.763 | 0.833 | 0.853 | 0.901 | 0.823 | 5.45  |
| 32)       | Benzo(a)anthra...     | 1.266          | 1.275 | 1.263 | 1.253 | 1.351 | 1.458 | 1.487 | 1.336 | 7.40  |
| 33)       | Chrysene              | 1.547          | 1.515 | 1.433 | 1.379 | 1.511 | 1.489 | 1.551 | 1.489 | 4.21  |
| 34)       | Bis(2-ethylhex...     |                | 0.518 | 0.522 | 0.483 | 0.522 | 0.593 | 0.671 | 0.551 | 12.47 |
|           |                       |                |       |       |       |       |       |       |       |       |
| 35) I     | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\

Method File : 8270-SIM-BN081225.M

|       |                   |       |       |       |       |       |       |       |       |       |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36)   | Indeno(1,2,3-c... | 1.446 | 1.462 | 1.612 | 1.568 | 1.816 | 1.883 | 2.011 | 1.686 | 13.01 |
| 37)   | Benzo(b)fluora... | 1.351 | 1.375 | 1.338 | 1.432 | 1.615 | 1.674 | 1.825 | 1.516 | 12.52 |
| 38)   | Benzo(k)fluora... | 1.597 | 1.580 | 1.651 | 1.628 | 1.821 | 1.797 | 1.898 | 1.710 | 7.36  |
| 39) C | Benzo(a)pyrene    | 1.146 | 1.136 | 1.149 | 1.157 | 1.322 | 1.382 | 1.508 | 1.257 | 11.77 |
| 40)   | Dibenzo(a,h)an... | 1.023 | 1.118 | 1.222 | 1.215 | 1.439 | 1.516 | 1.621 | 1.308 | 16.85 |
| 41)   | Benzo(g,h,i)pe... | 1.207 | 1.274 | 1.262 | 1.261 | 1.467 | 1.532 | 1.643 | 1.378 | 12.17 |

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(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
 Data File : BN037578.D  
 Acq On : 12 Aug 2025 16:26  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Quant Time: Aug 13 04:47:31 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 04:46:02 2025  
 Response via : Initial Calibration

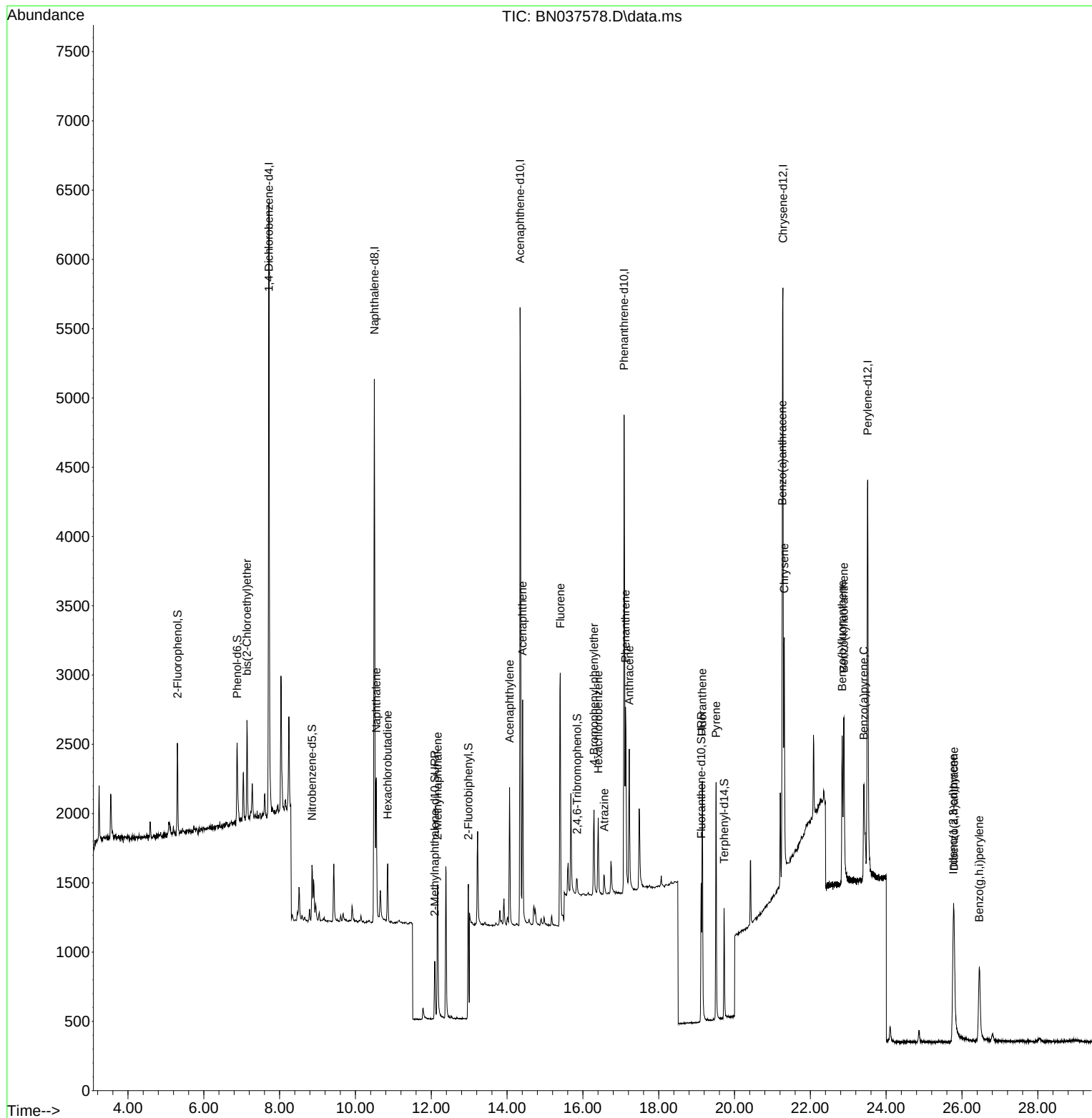
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 2217     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 5472     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2625     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.087 | 188  | 5296     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.277 | 240  | 4146     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.514 | 264  | 4132     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 511      | 0.102 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 579      | 0.096 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 369      | 0.096 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.091 | 152  | 667      | 0.090 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.845 | 330  | 91       | 0.079 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl          | 12.978 | 172  | 1461     | 0.096 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.123 | 212  | 1234     | 0.089 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.726 | 244  | 844      | 0.099 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 518      | 0.095 | ng    | 94       |
| 9) Naphthalene                | 10.552 | 128  | 1428     | 0.098 | ng    | # 89     |
| 10) Hexachlorobutadiene       | 10.851 | 225  | 345      | 0.097 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.167 | 142  | 806      | 0.088 | ng    | 94       |
| 16) Acenaphthylene            | 14.067 | 152  | 1142     | 0.097 | ng    | 99       |
| 17) Acenaphthene              | 14.409 | 154  | 751      | 0.094 | ng    | 95       |
| 18) Fluorene                  | 15.403 | 166  | 962      | 0.092 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 16.292 | 248  | 299      | 0.090 | ng    | 90       |
| 22) Hexachlorobenzene         | 16.404 | 284  | 476      | 0.101 | ng    | 99       |
| 23) Atrazine                  | 16.565 | 200  | 168      | 0.089 | ng    | # 76     |
| 25) Phenanthrene              | 17.124 | 178  | 1517     | 0.094 | ng    | 99       |
| 26) Anthracene                | 17.223 | 178  | 1258     | 0.088 | ng    | 100      |
| 28) Fluoranthene              | 19.150 | 202  | 1643     | 0.089 | ng    | 99       |
| 30) Pyrene                    | 19.513 | 202  | 1595     | 0.103 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.259 | 228  | 1312     | 0.095 | ng    | 94       |
| 33) Chrysene                  | 21.313 | 228  | 1603     | 0.104 | ng    | 95       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.771 | 276  | 1494     | 0.086 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.841 | 252  | 1396     | 0.089 | ng    | # 74     |
| 38) Benzo(k)fluoranthene      | 22.885 | 252  | 1650     | 0.093 | ng    | # 72     |
| 39) Benzo(a)pyrene            | 23.411 | 252  | 1184     | 0.091 | ng    | # 64     |
| 40) Dibenzo(a,h)anthracene    | 25.791 | 278  | 1057     | 0.078 | ng    | # 72     |
| 41) Benzo(g,h,i)perylene      | 26.458 | 276  | 1247     | 0.088 | ng    | # 84     |
| -----                         |        |      |          |       |       |          |

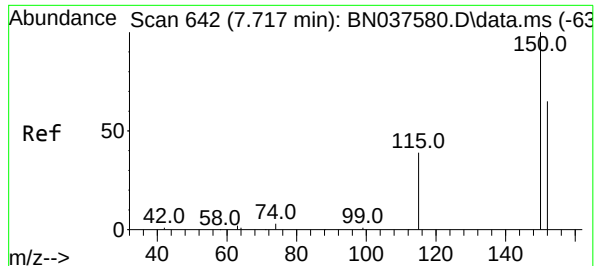
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037578.D  
Acq On : 12 Aug 2025 16:26  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

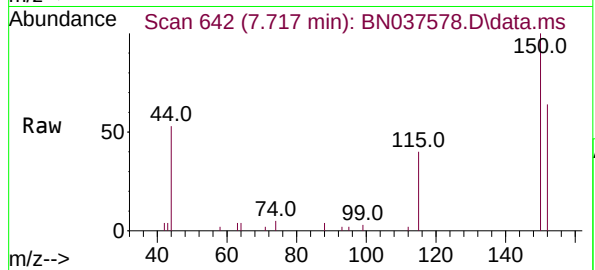
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QLast Update : Wed Aug 13 04:46:02 2025  
Response via : Initial Calibration



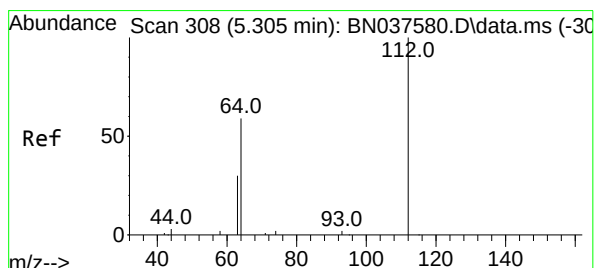
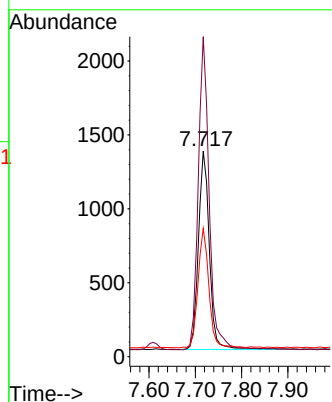
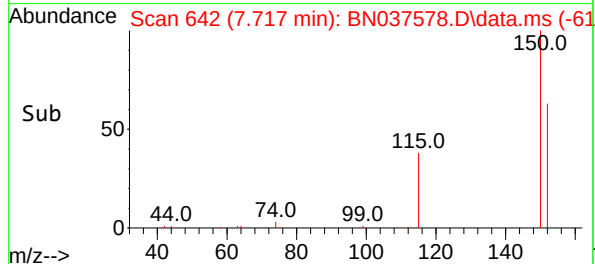


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 642  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

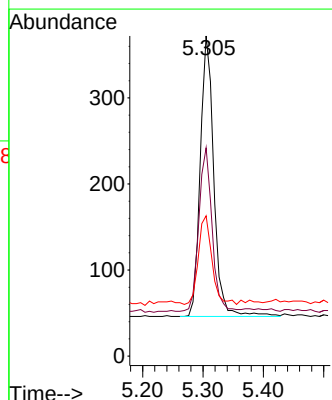
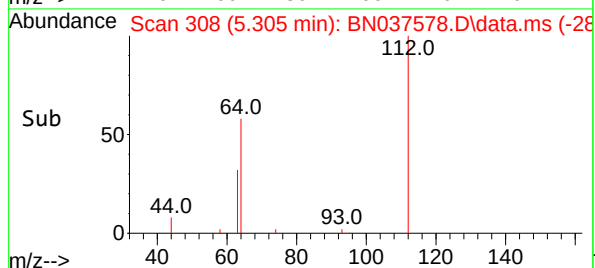
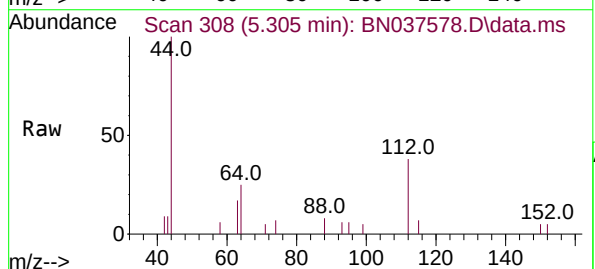


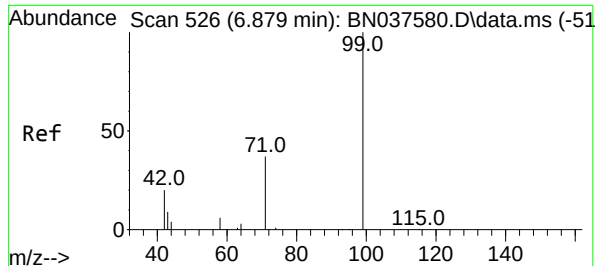
Tgt Ion:152 Resp: 2217  
Ion Ratio Lower Upper  
152 100  
150 155.6 122.2 183.4  
115 62.3 49.8 74.6



#4  
2-Fluorophenol  
Concen: 0.102 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

Tgt Ion:112 Resp: 511  
Ion Ratio Lower Upper  
112 100  
64 56.6 44.9 67.3  
63 31.3 23.4 35.2





#5

Phenol-d6

Concen: 0.096 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

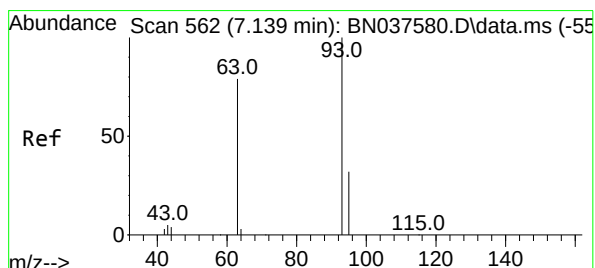
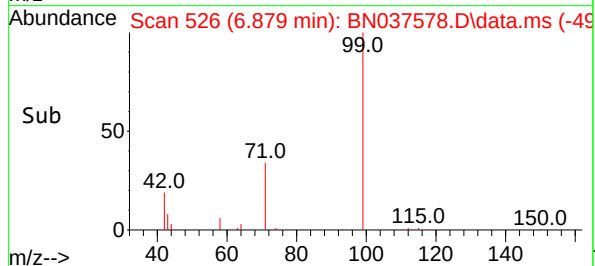
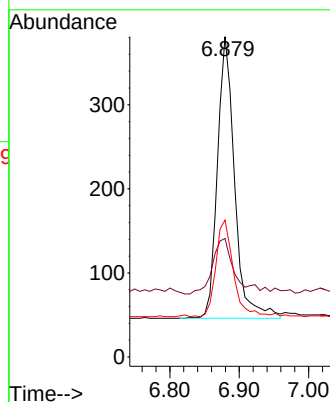
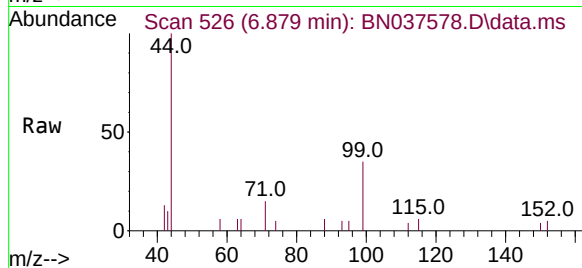
Tgt Ion: 99 Resp: 579

Ion Ratio Lower Upper

99 100

42 26.9 18.5 27.7

71 35.4 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.095 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

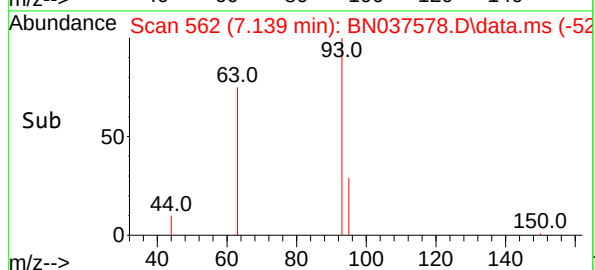
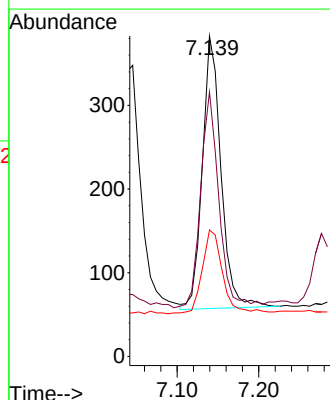
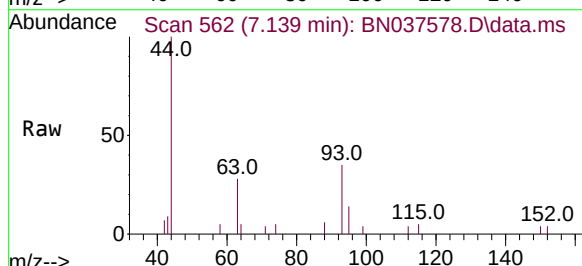
Tgt Ion: 93 Resp: 518

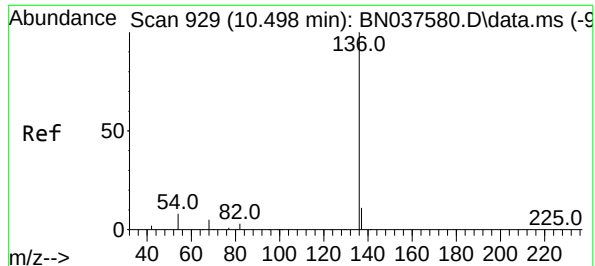
Ion Ratio Lower Upper

93 100

63 78.0 58.0 87.0

95 33.8 24.9 37.3

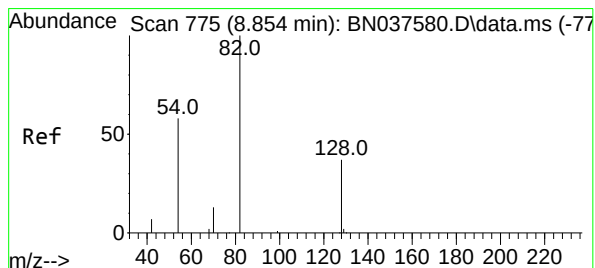
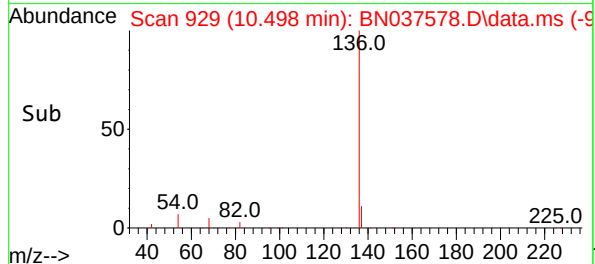
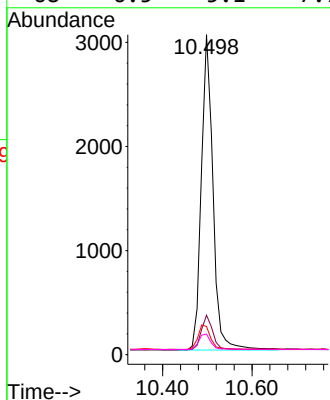
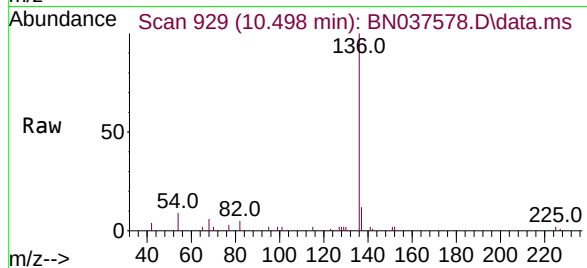




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

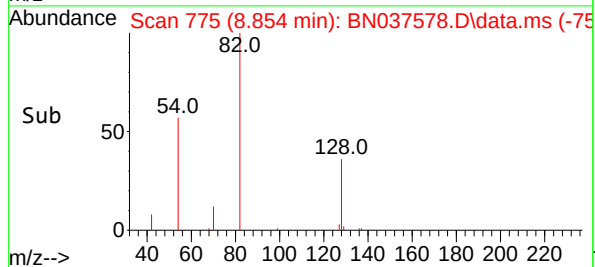
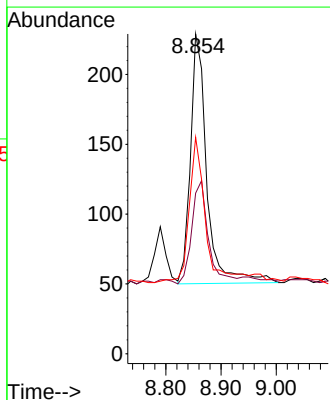
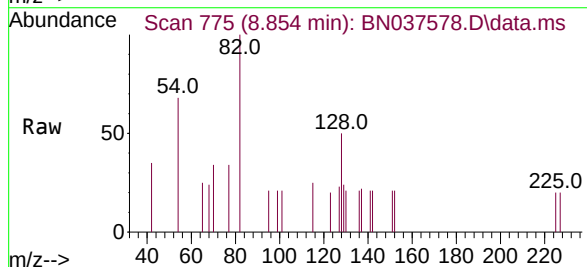
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5472  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 9.5   | 14.3  |
| 54       | 8.8   | 7.3   | 10.9  |
| 68       | 6.5   | 5.1   | 7.7   |

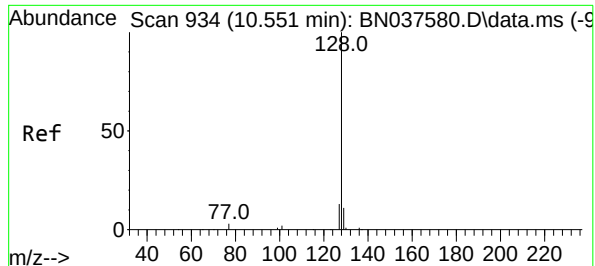


#8  
Nitrobenzene-d5  
Concen: 0.096 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 369   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 50.2  | 32.6  | 48.8# |
| 54       | 67.7  | 48.9  | 73.3  |



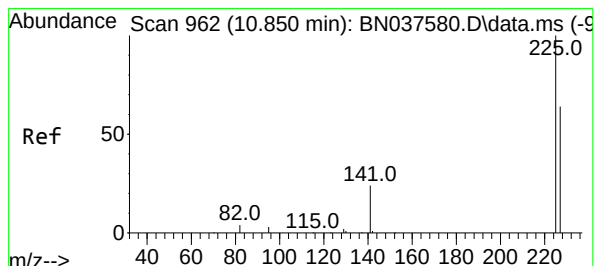
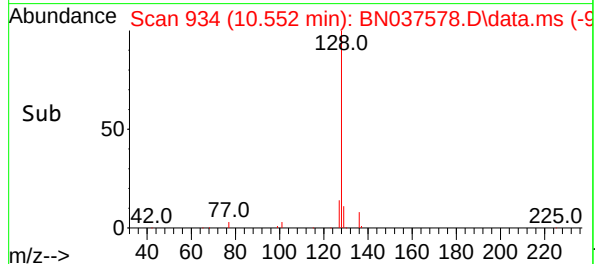
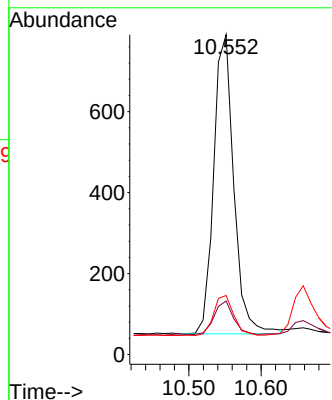
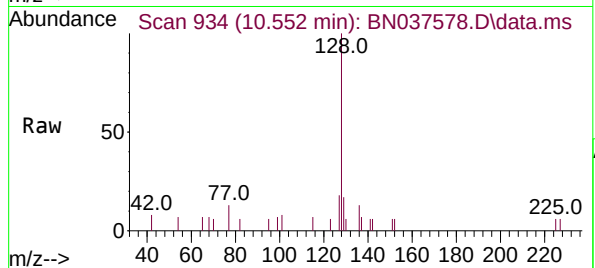




#9  
Naphthalene  
Concen: 0.098 ng  
RT: 10.552 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

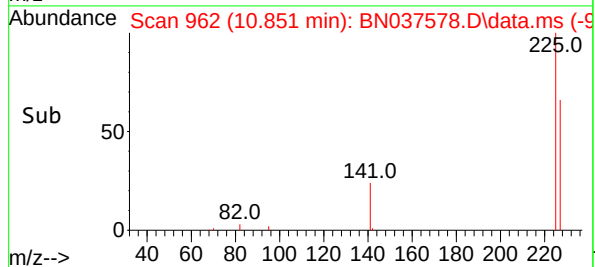
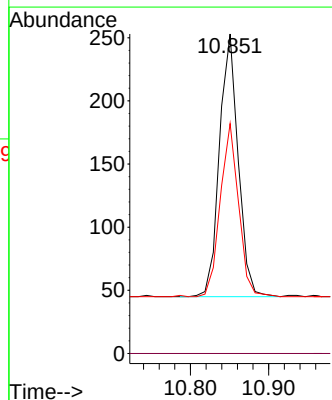
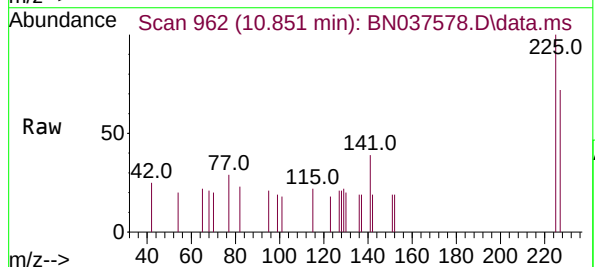
Instrument :  
BNA\_N  
ClientSampleId :  
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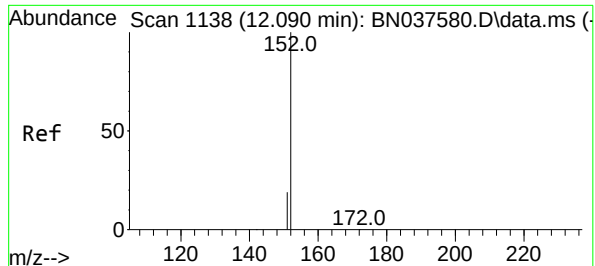
Tgt Ion:128 Resp: 1428  
Ion Ratio Lower Upper  
128 100  
129 16.7 9.8 14.6#  
127 18.5 11.5 17.3#



#10  
Hexachlorobutadiene  
Concen: 0.097 ng  
RT: 10.851 min Scan# 962  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

Tgt Ion:225 Resp: 345  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.3 50.8 76.2

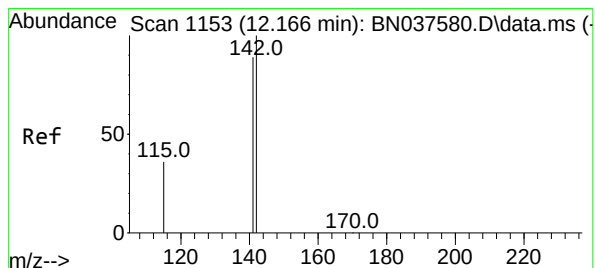
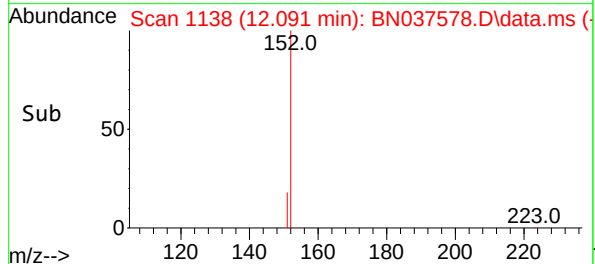
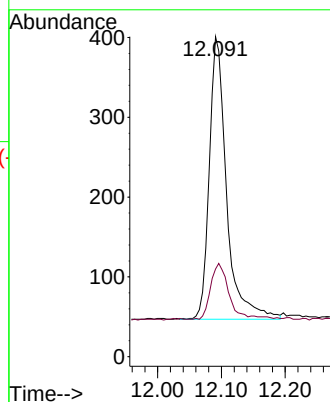
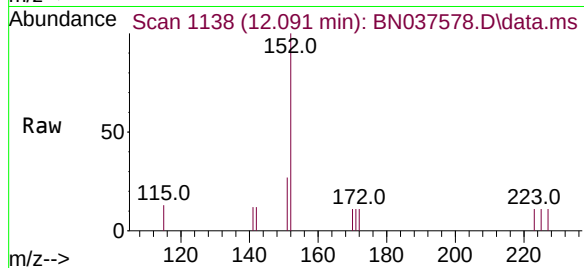




#11  
2-Methylnaphthalene-d10  
Concen: 0.090 ng  
RT: 12.091 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

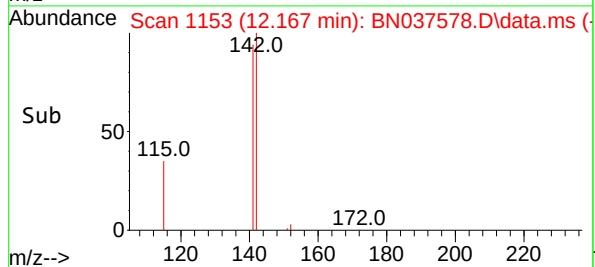
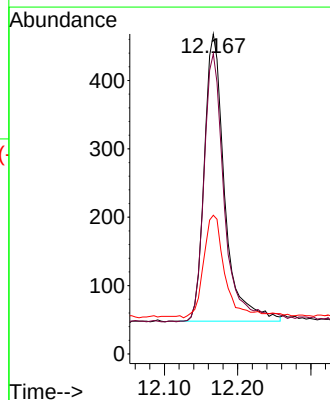
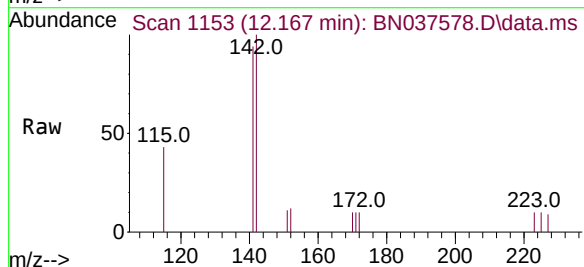
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ClientSampleId :  
SSTDICC0.1

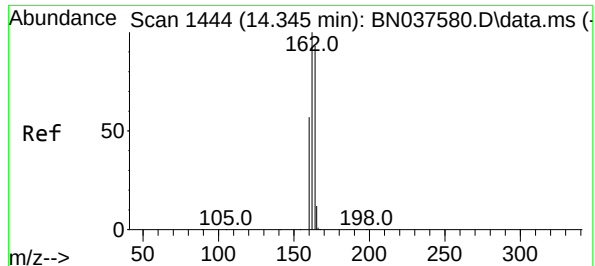
Tgt Ion:152 Resp: 667  
Ion Ratio Lower Upper  
152 100  
151 21.1 17.3 25.9



#12  
2-Methylnaphthalene  
Concen: 0.088 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

Tgt Ion:142 Resp: 806  
Ion Ratio Lower Upper  
142 100  
141 93.8 71.4 107.0  
115 43.4 30.2 45.4

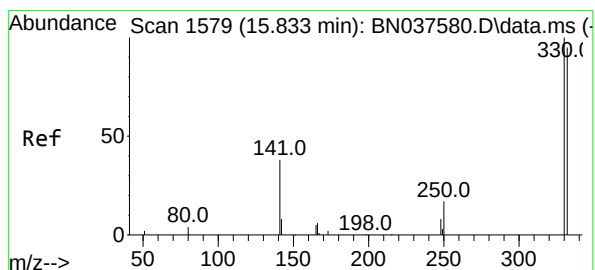
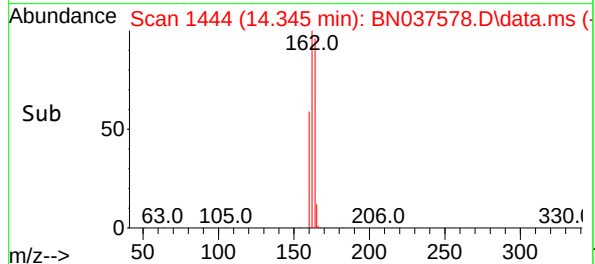
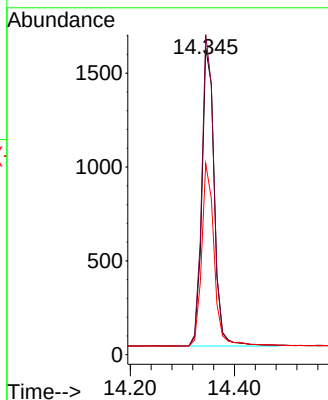
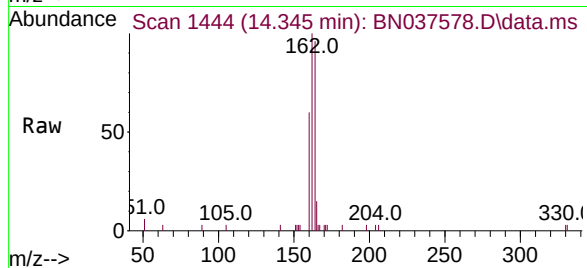




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

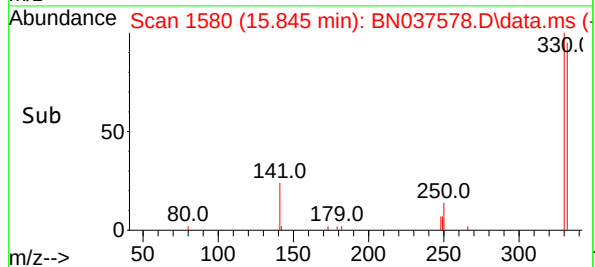
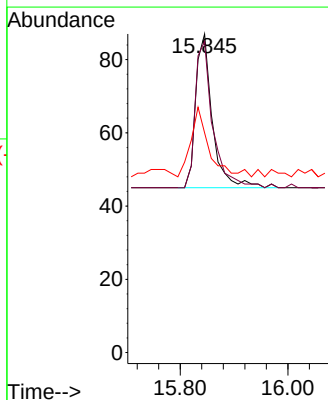
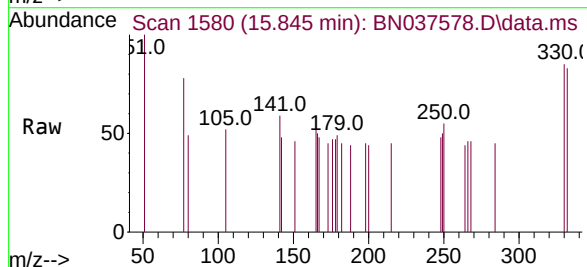
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ClientSampleId :  
SSTDICC0.1

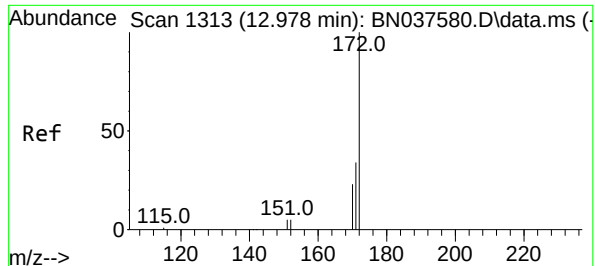
Tgt Ion:164 Resp: 2625  
Ion Ratio Lower Upper  
164 100  
162 104.3 85.5 128.3  
160 62.3 49.5 74.3



#14  
2,4,6-Tribromophenol  
Concen: 0.079 ng  
RT: 15.845 min Scan# 1580  
Delta R.T. 0.013 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

Tgt Ion:330 Resp: 91  
Ion Ratio Lower Upper  
330 100  
332 101.1 77.4 116.0  
141 47.3 30.9 46.3#

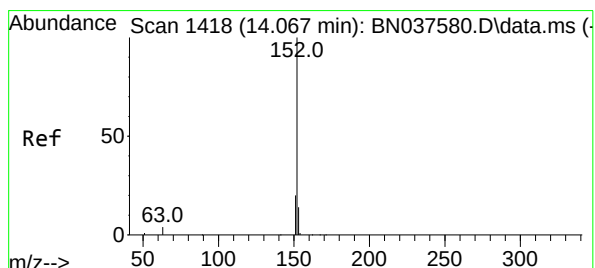
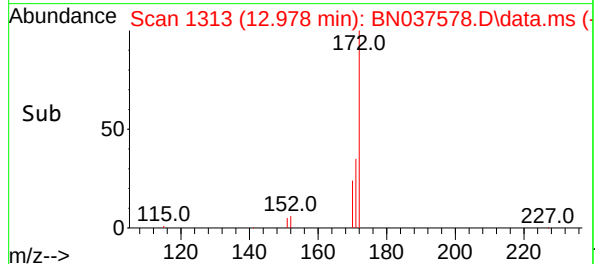
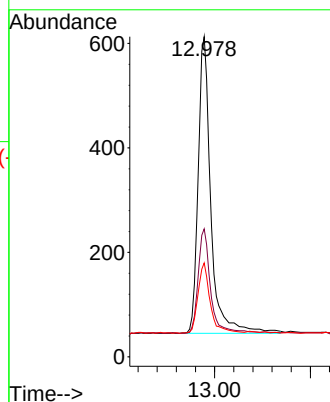
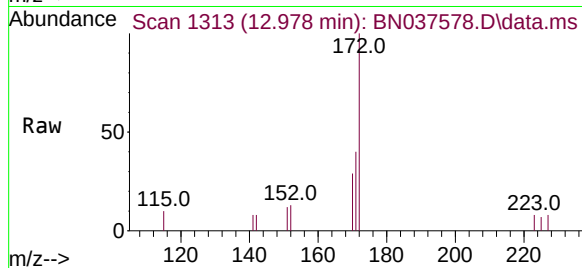




#15  
2-Fluorobiphenyl  
Concen: 0.096 ng  
RT: 12.978 min Scan# 1313  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

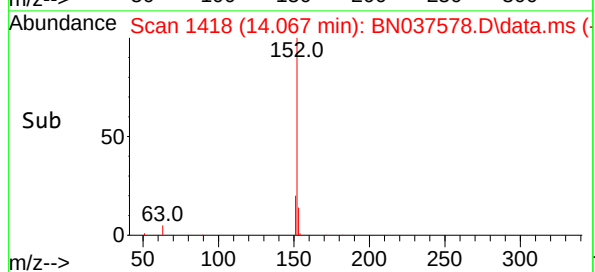
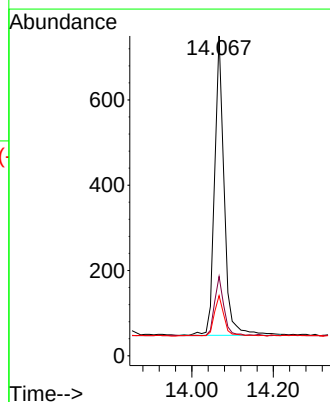
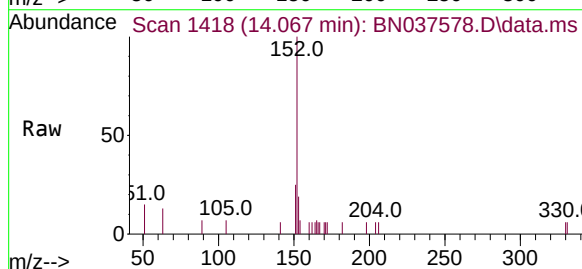
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

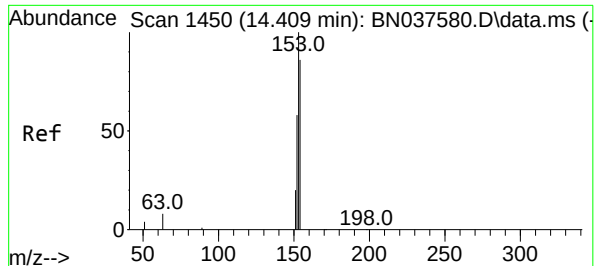
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 40.0  | 28.2  | 42.4  |
| 170     | 29.4  | 19.2  | 28.8  |



#16  
Acenaphthylene  
Concen: 0.097 ng  
RT: 14.067 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.5  | 16.1  | 24.1  |
| 153     | 13.6  | 10.7  | 16.1  |

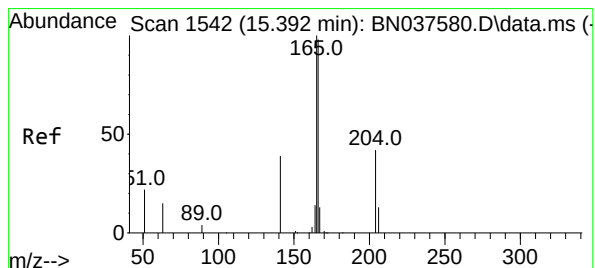
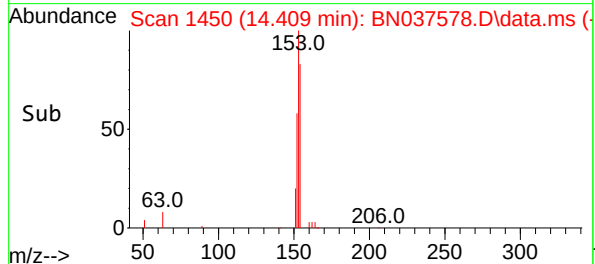
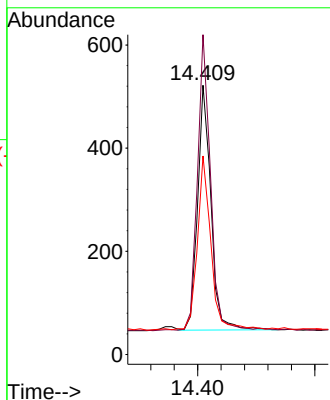
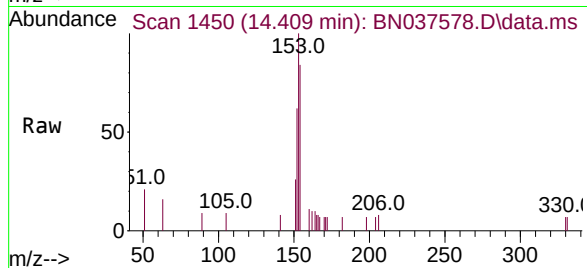




#17  
Acenaphthene  
Concen: 0.094 ng  
RT: 14.409 min Scan# 1450  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

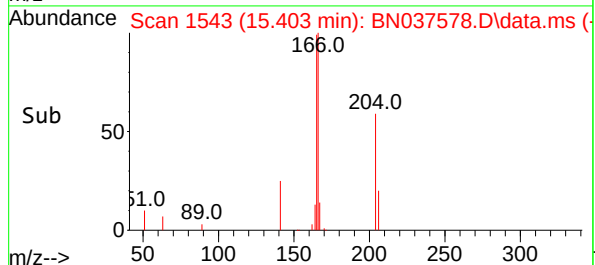
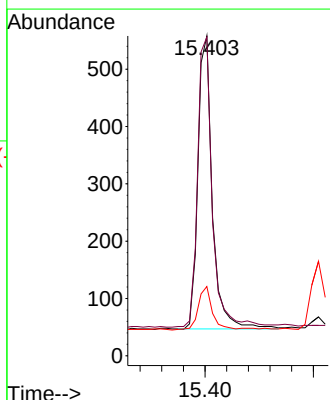
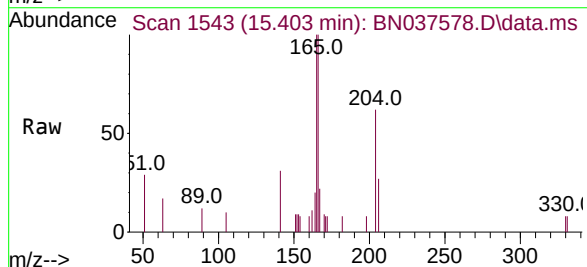
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

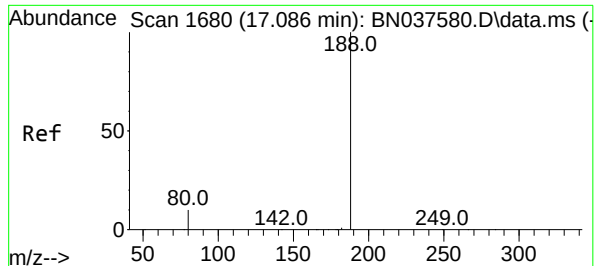
Tgt Ion:154 Resp: 751  
Ion Ratio Lower Upper  
154 100  
153 118.8 90.6 135.8  
152 71.6 54.9 82.3



#18  
Fluorene  
Concen: 0.092 ng  
RT: 15.403 min Scan# 1543  
Delta R.T. 0.011 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

Tgt Ion:166 Resp: 962  
Ion Ratio Lower Upper  
166 100  
165 99.8 78.9 118.3  
167 14.2 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

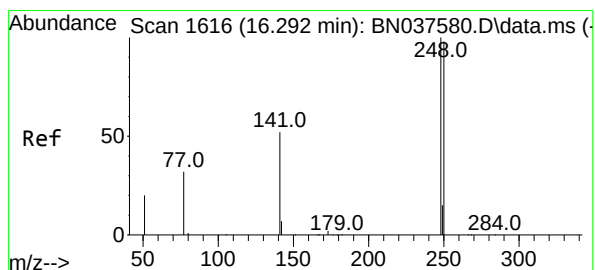
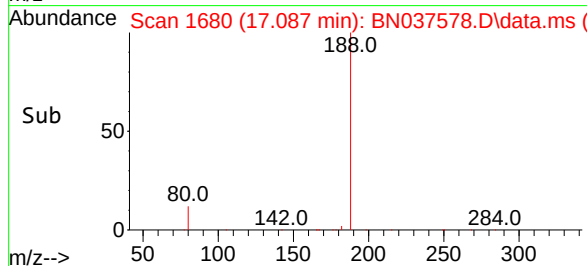
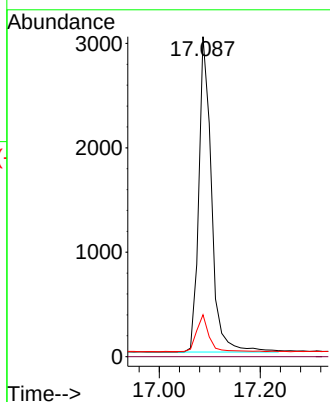
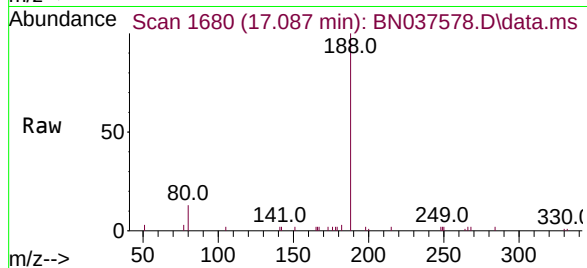
Tgt Ion:188 Resp: 5296

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.1 9.1 13.7



#21

4-Bromophenyl-phenylether

Concen: 0.090 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

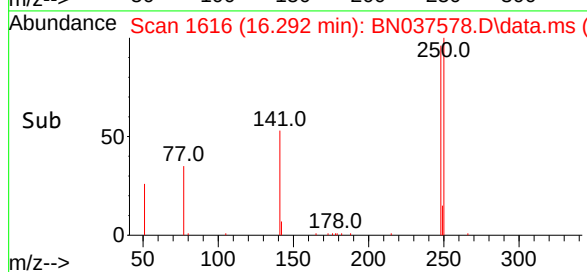
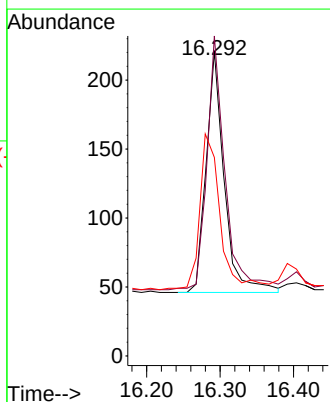
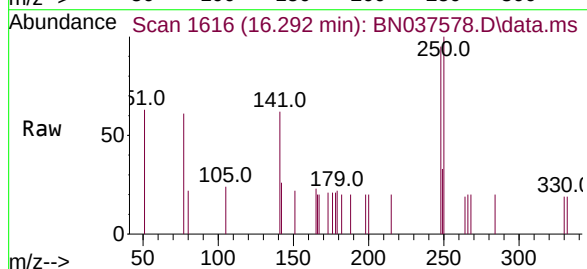
Tgt Ion:248 Resp: 299

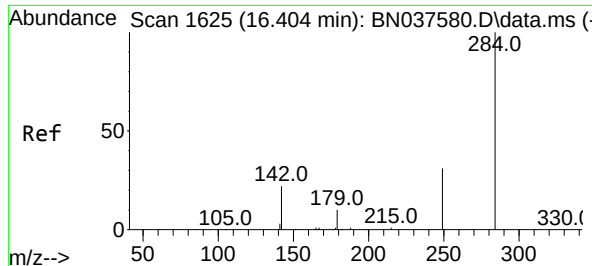
Ion Ratio Lower Upper

248 100

250 105.0 78.6 118.0

141 65.2 43.7 65.5





#22

Hexachlorobenzene

Concen: 0.101 ng

RT: 16.404 min Scan# 1625

Delta R.T. -0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

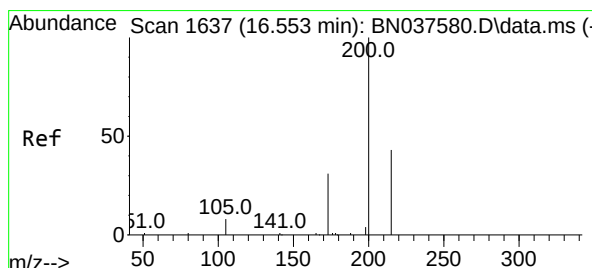
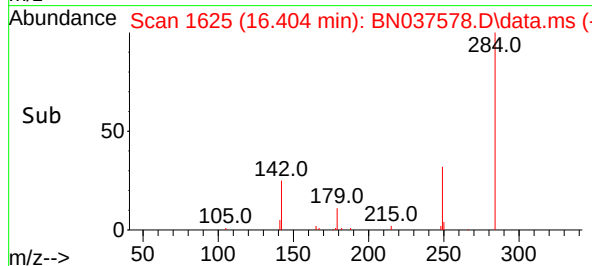
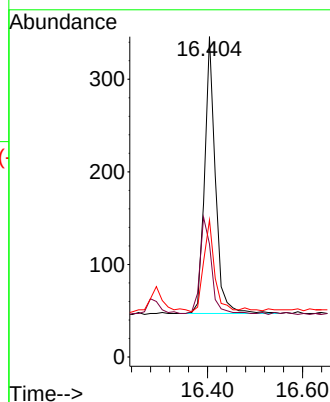
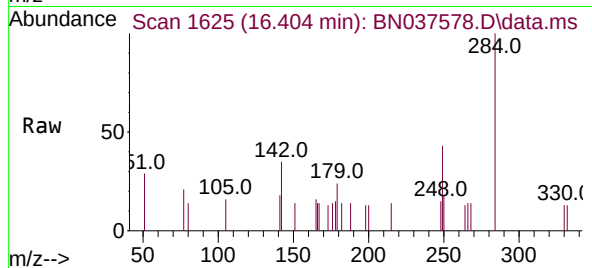
Tgt Ion:284 Resp: 476

Ion Ratio Lower Upper

284 100

142 36.8 29.8 44.6

249 33.4 26.0 39.0



#23

Atrazine

Concen: 0.089 ng

RT: 16.565 min Scan# 1638

Delta R.T. 0.012 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

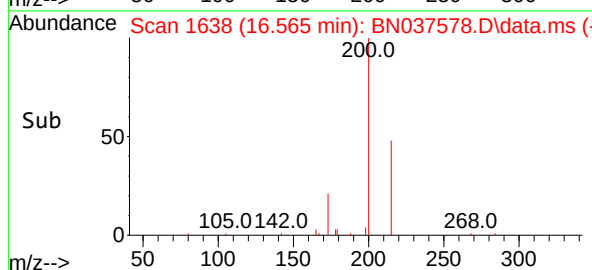
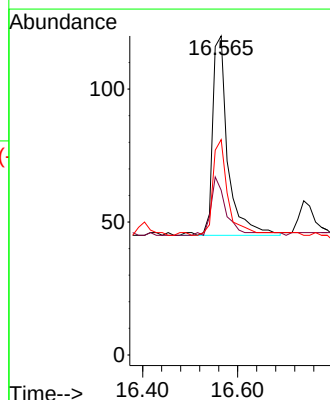
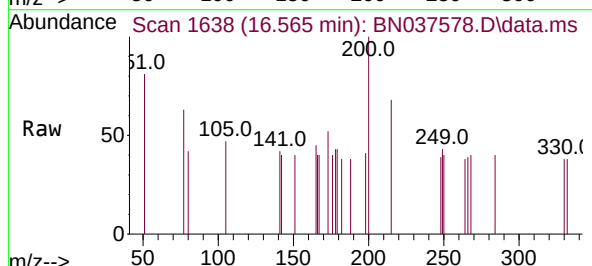
Tgt Ion:200 Resp: 168

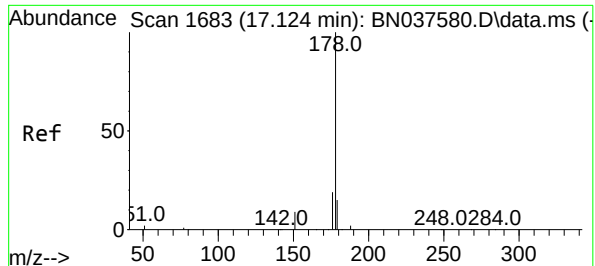
Ion Ratio Lower Upper

200 100

173 51.7 31.0 46.4#

215 67.5 39.4 59.0#

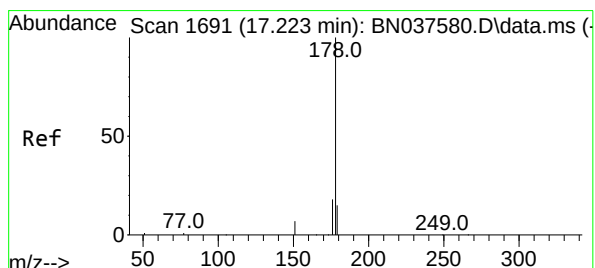
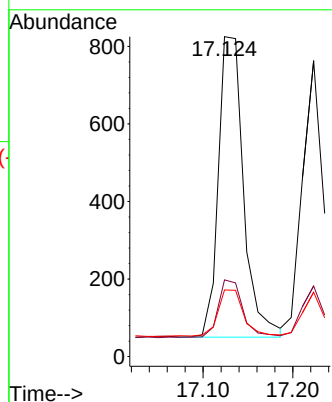
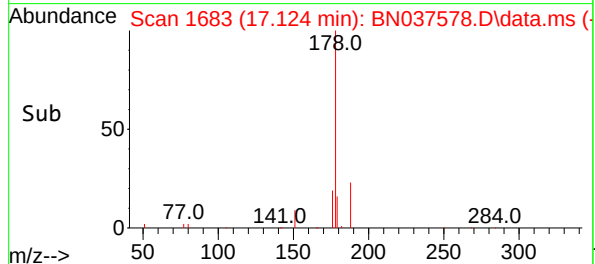
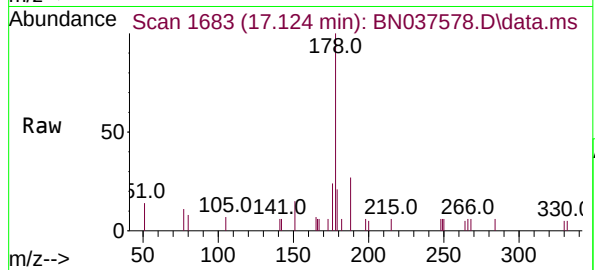




#25  
Phenanthrene  
Concen: 0.094 ng  
RT: 17.124 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

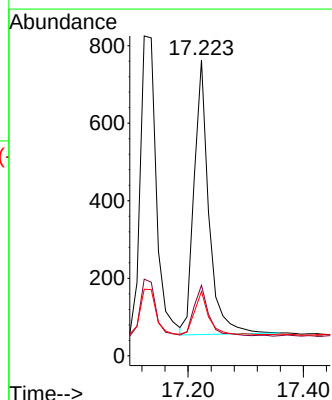
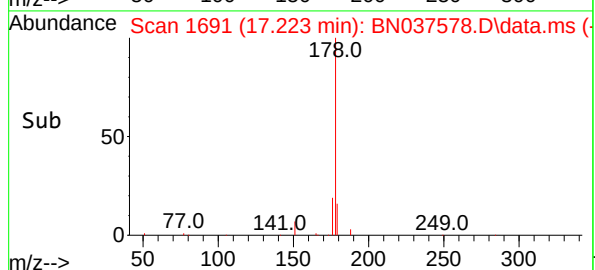
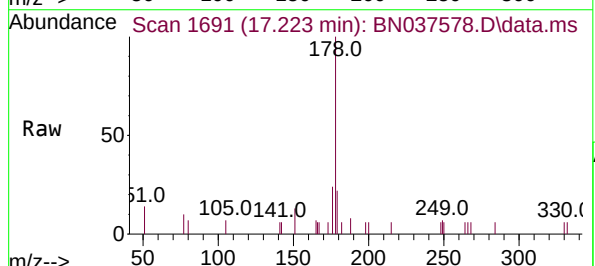
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:178 Resp: 1517  
Ion Ratio Lower Upper  
178 100  
176 18.4 15.0 22.6  
179 16.0 12.3 18.5

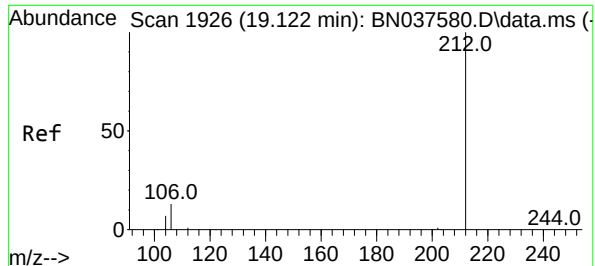


#26  
Anthracene  
Concen: 0.088 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

Tgt Ion:178 Resp: 1258  
Ion Ratio Lower Upper  
178 100  
176 18.3 14.7 22.1  
179 15.5 12.3 18.5







#27

Fluoranthene-d10

Concen: 0.089 ng

RT: 19.123 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

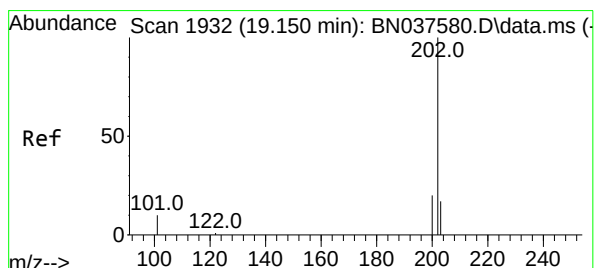
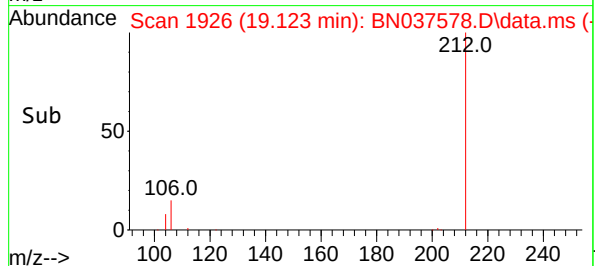
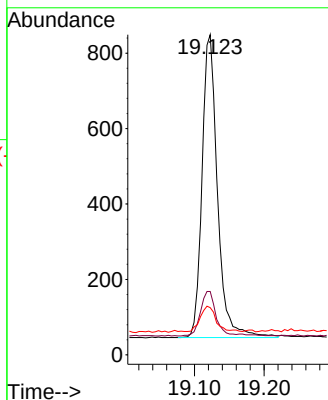
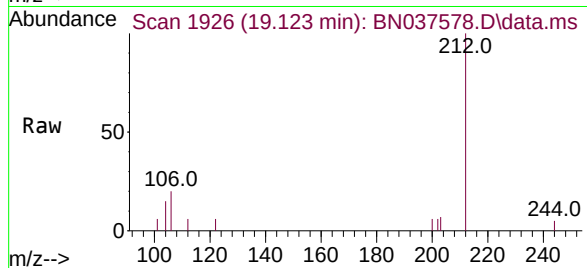
Tgt Ion:212 Resp: 1234

Ion Ratio Lower Upper

212 100

106 14.6 11.5 17.3

104 8.6 6.6 9.8



#28

Fluoranthene

Concen: 0.089 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

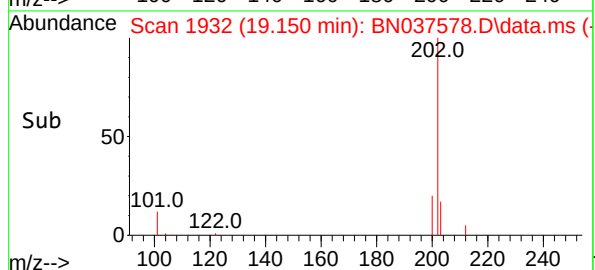
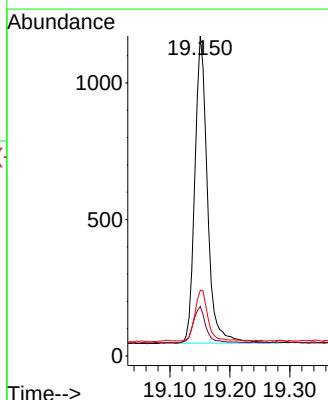
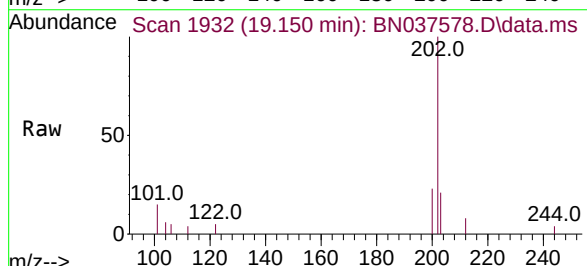
Tgt Ion:202 Resp: 1643

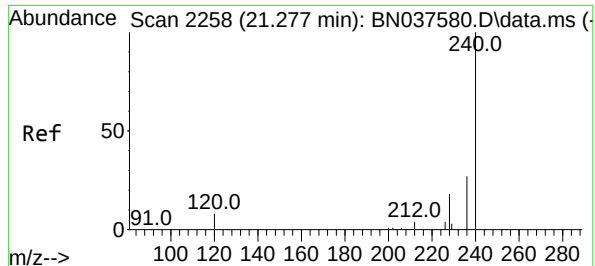
Ion Ratio Lower Upper

202 100

101 11.9 9.0 13.6

203 16.7 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

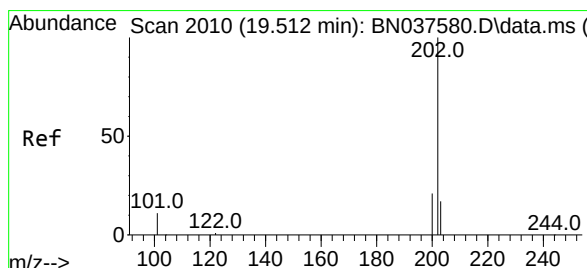
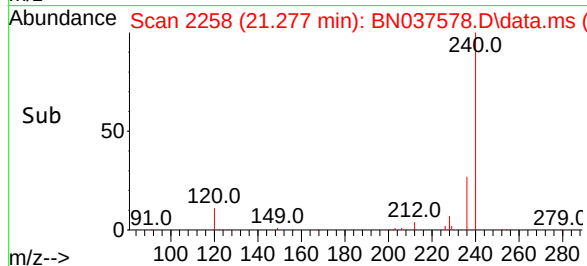
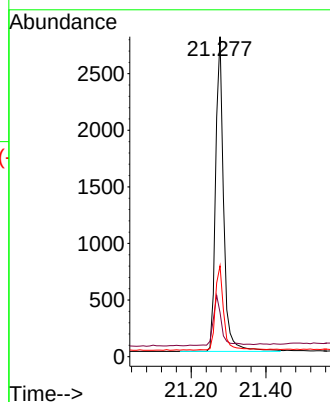
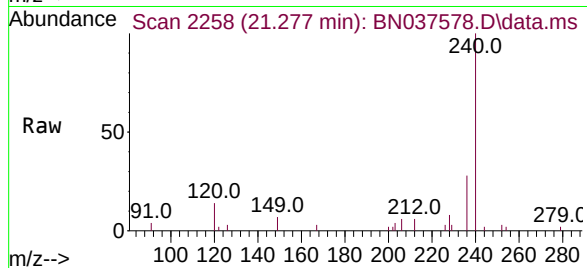
Tgt Ion:240 Resp: 4146

Ion Ratio Lower Upper

240 100

120 13.8 8.9 13.3#

236 28.4 22.6 33.8



#30

Pyrene

Concen: 0.103 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

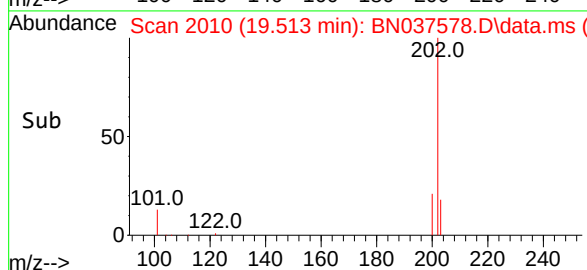
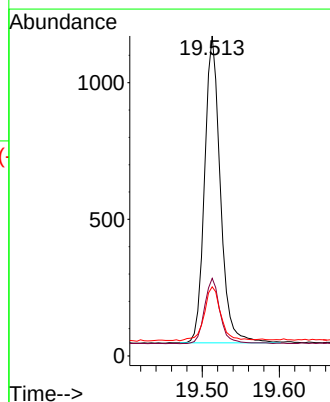
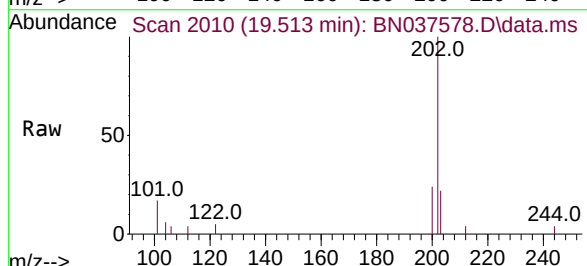
Tgt Ion:202 Resp: 1595

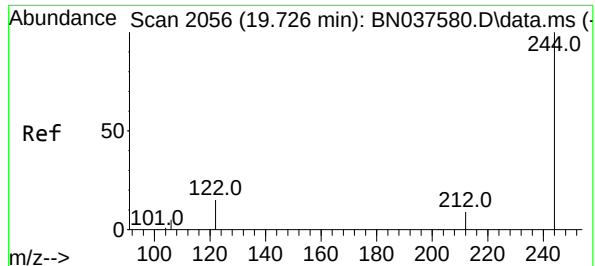
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

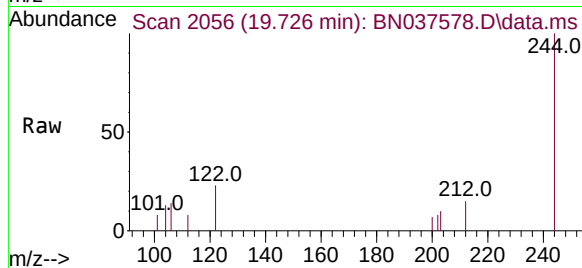
203 18.0 14.3 21.5



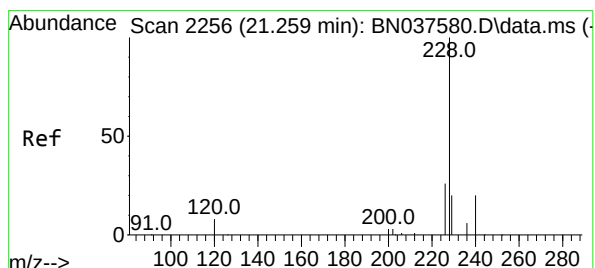
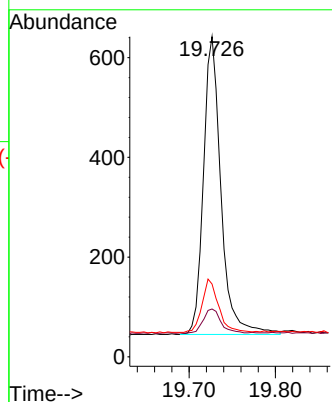


#31  
Terphenyl-d14  
Concen: 0.099 ng  
RT: 19.726 min Scan# 2056  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

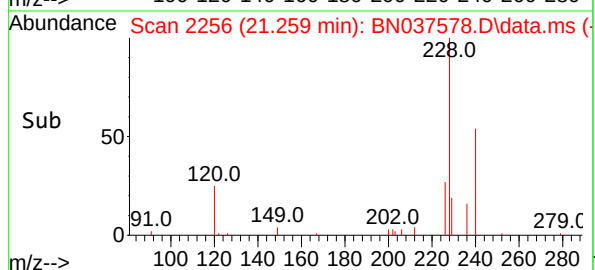
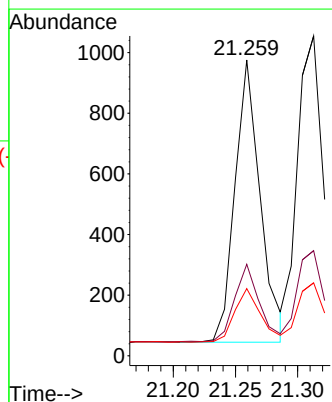
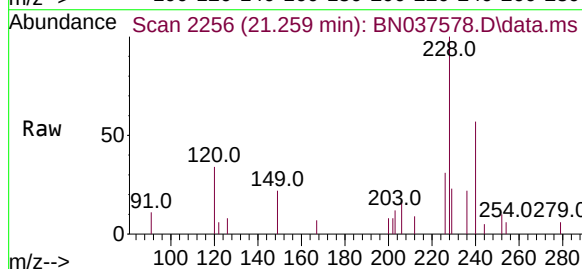


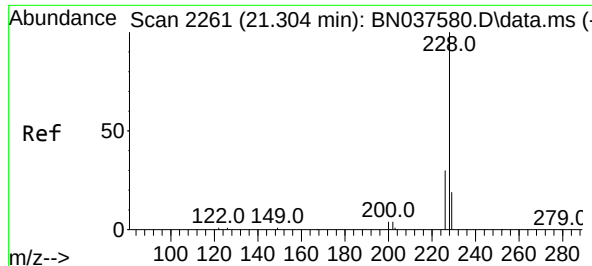
Tgt Ion:244 Resp: 844  
Ion Ratio Lower Upper  
244 100  
212 15.0 8.2 12.2#  
122 22.7 13.2 19.8#



#32  
Benzo(a)anthracene  
Concen: 0.095 ng  
RT: 21.259 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

Tgt Ion:228 Resp: 1312  
Ion Ratio Lower Upper  
228 100  
226 30.9 21.5 32.3  
229 22.7 16.5 24.7





#33

Chrysene

Concen: 0.104 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

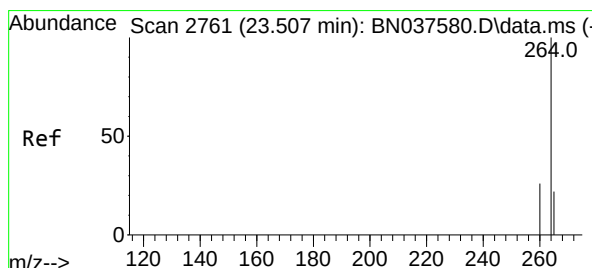
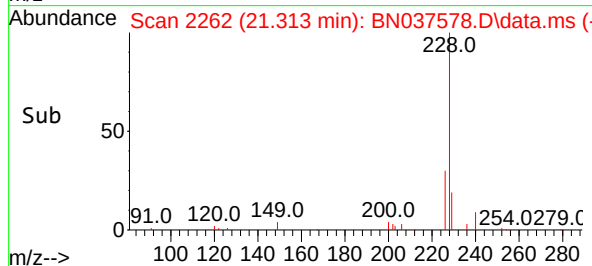
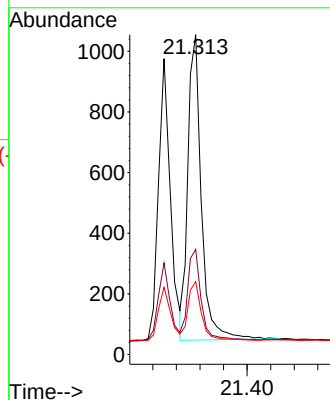
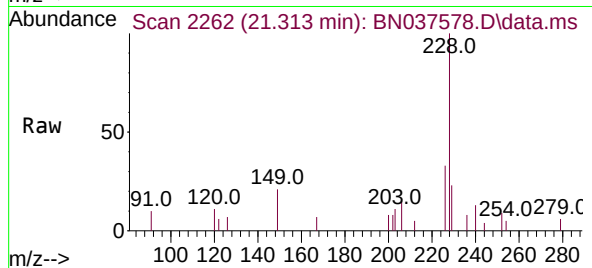
Tgt Ion:228 Resp: 1603

Ion Ratio Lower Upper

228 100

226 32.9 24.9 37.3

229 22.8 15.8 23.8



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.514 min Scan# 2763

Delta R.T. 0.006 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

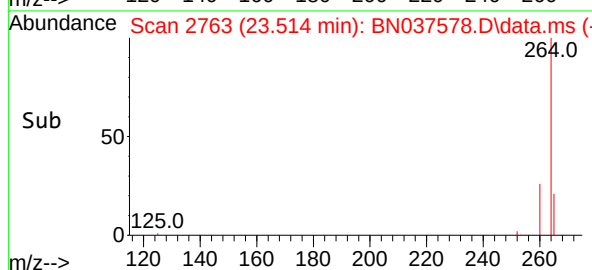
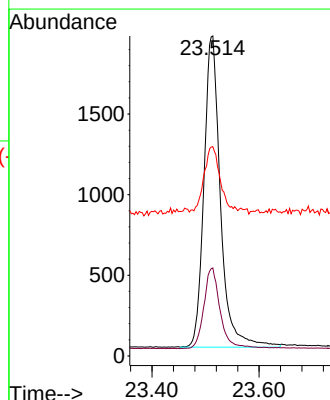
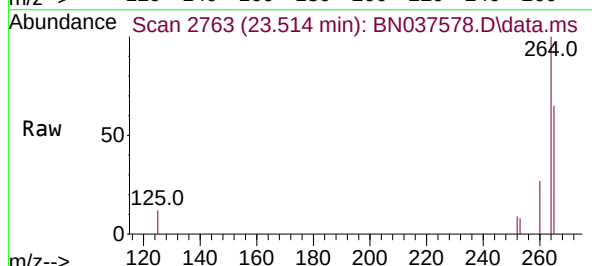
Tgt Ion:264 Resp: 4132

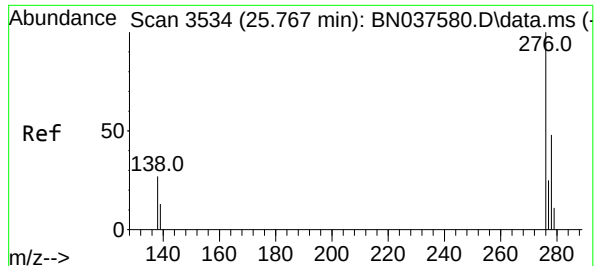
Ion Ratio Lower Upper

264 100

260 27.5 21.6 32.4

265 65.4 48.2 72.4

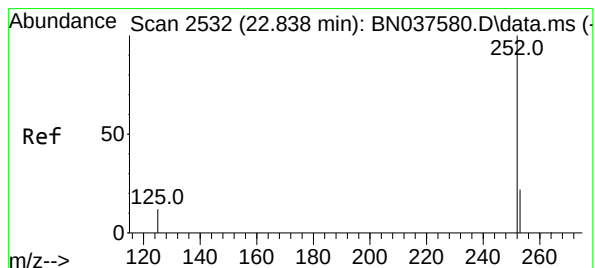
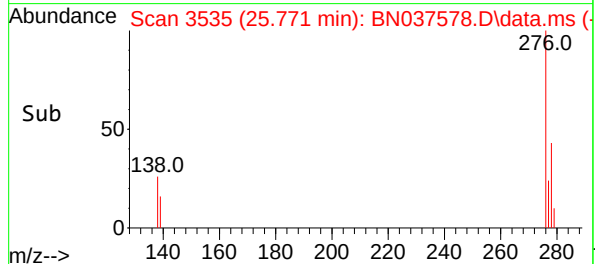
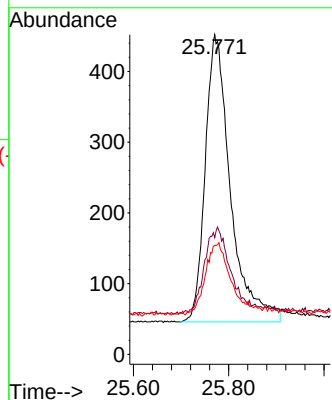
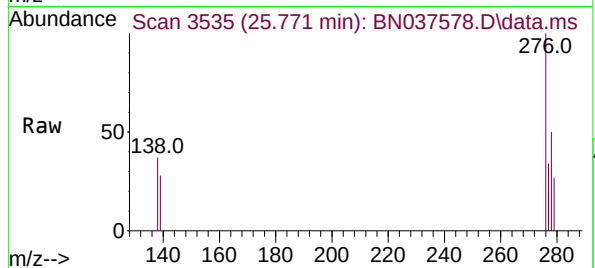




#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.086 ng  
RT: 25.771 min Scan# 31  
Delta R.T. 0.003 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

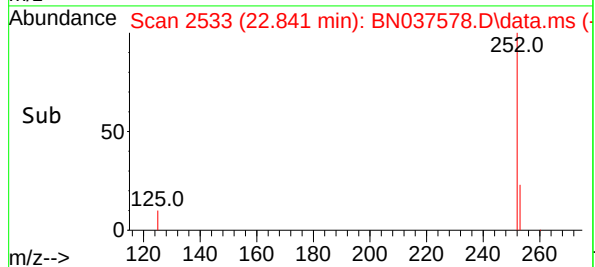
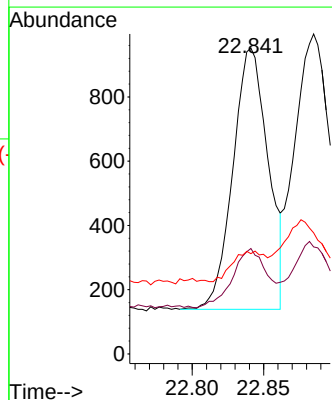
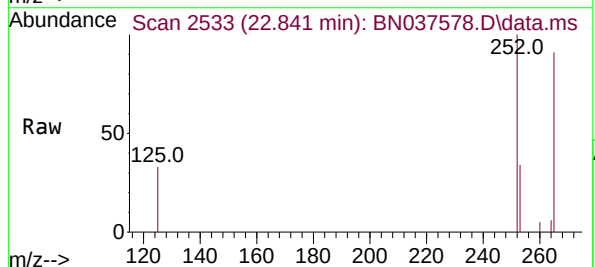
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

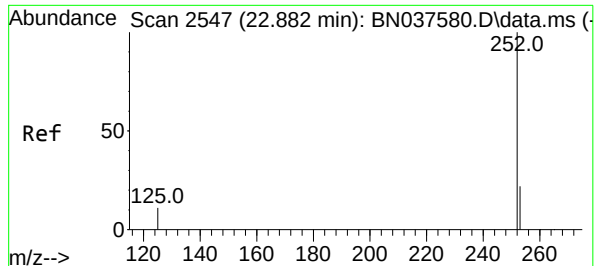
Tgt Ion:276 Resp: 1494  
Ion Ratio Lower Upper  
276 100  
138 29.2 23.3 34.9  
277 24.9 19.5 29.3



#37  
Benzo(b)fluoranthene  
Concen: 0.089 ng  
RT: 22.841 min Scan# 2533  
Delta R.T. 0.003 min  
Lab File: BN037578.D  
Acq: 12 Aug 2025 16:26

Tgt Ion:252 Resp: 1396  
Ion Ratio Lower Upper  
252 100  
253 34.5 20.0 30.0#  
125 32.8 13.8 20.6#





#38

Benzo(k)fluoranthene

Concen: 0.093 ng

RT: 22.885 min Scan# 2547

Delta R.T. 0.003 min

Lab File: BN037578.D

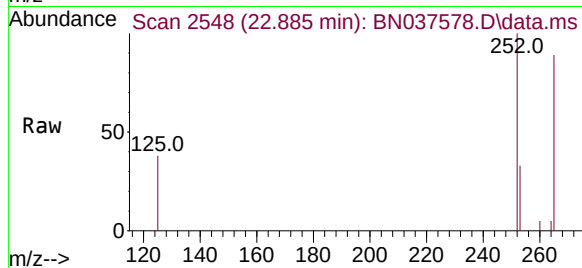
Acq: 12 Aug 2025 16:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1



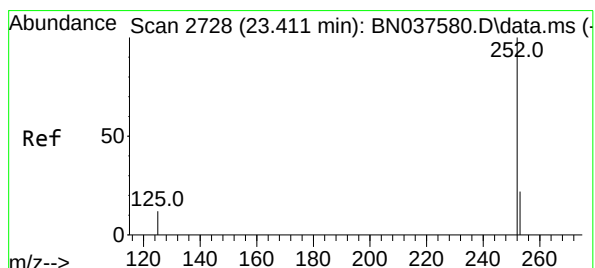
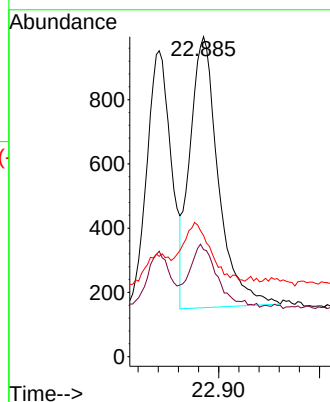
Tgt Ion:252 Resp: 1650

Ion Ratio Lower Upper

252 100

253 33.4 19.9 29.9#

125 37.9 15.0 22.6#



#39

Benzo(a)pyrene

Concen: 0.091 ng

RT: 23.411 min Scan# 2728

Delta R.T. 0.000 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

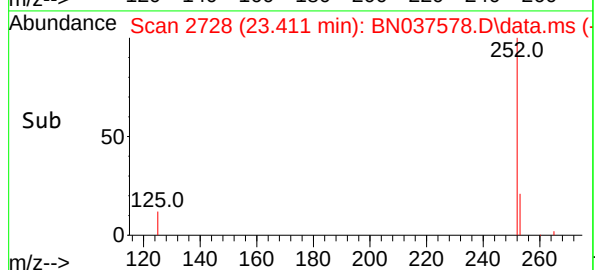
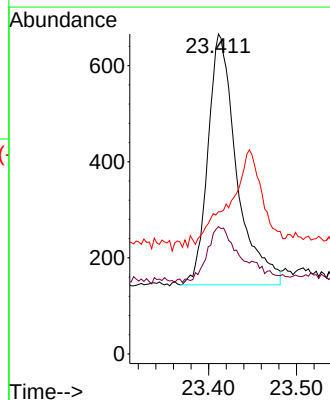
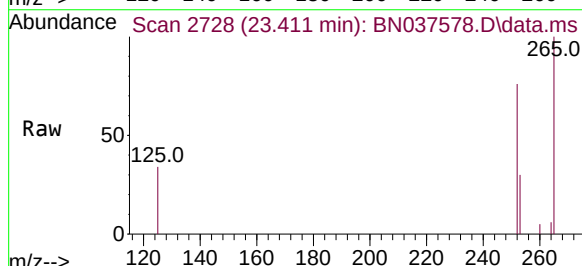
Tgt Ion:252 Resp: 1184

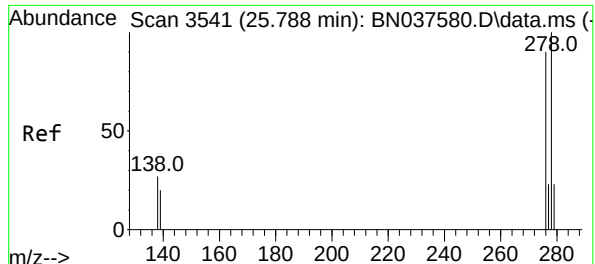
Ion Ratio Lower Upper

252 100

253 39.8 21.6 32.4#

125 44.4 16.8 25.2#





#40

Dibenzo(a,h)anthracene

Concen: 0.078 ng

RT: 25.791 min Scan# 3

Delta R.T. 0.003 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

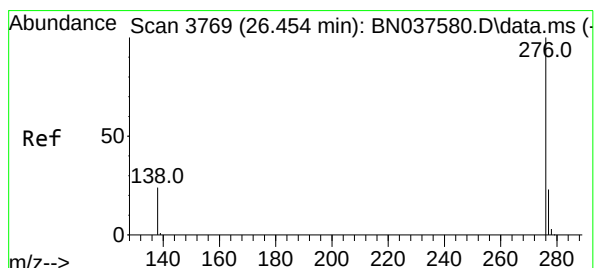
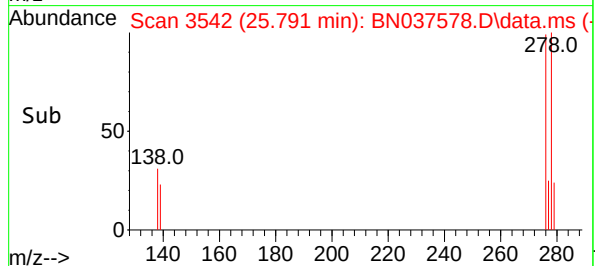
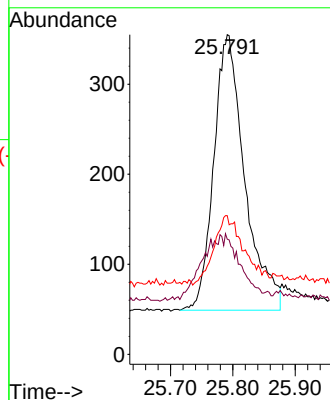
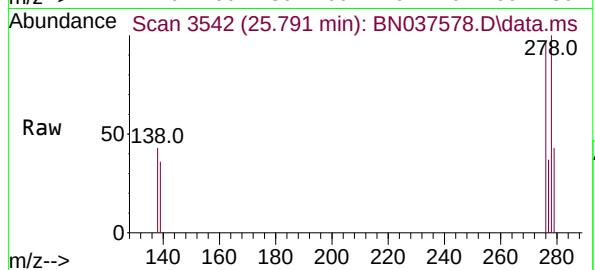
Tgt Ion:278 Resp: 1057

Ion Ratio Lower Upper

278 100

139 36.1 18.3 27.5#

279 43.4 22.5 33.7#



#41

Benzo(g,h,i)perylene

Concen: 0.088 ng

RT: 26.458 min Scan# 3770

Delta R.T. 0.003 min

Lab File: BN037578.D

Acq: 12 Aug 2025 16:26

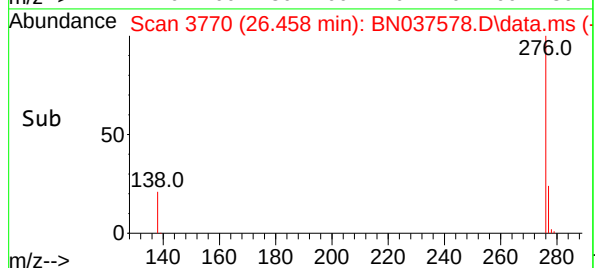
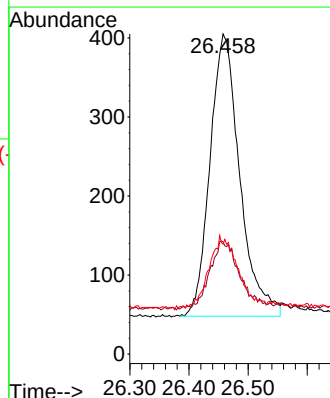
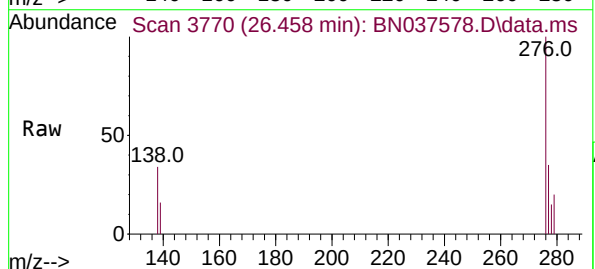
Tgt Ion:276 Resp: 1247

Ion Ratio Lower Upper

276 100

277 35.1 21.0 31.4#

138 34.3 21.7 32.5#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
 Data File : BN037579.D  
 Acq On : 12 Aug 2025 17:03  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Quant Time: Aug 13 04:47:58 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 04:46:02 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 2031     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 4975     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2407     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.087 | 188  | 4812     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.277 | 240  | 4019     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.508 | 264  | 3859     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 960      | 0.209 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 1067     | 0.193 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 640      | 0.183 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.091 | 152  | 1225     | 0.181 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 179      | 0.170 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.978 | 172  | 2700     | 0.194 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.123 | 212  | 2323     | 0.184 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.726 | 244  | 1609     | 0.195 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 419      | 0.216 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.543  | 42   | 478      | 0.193 | ng    | # 94     |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 1002     | 0.201 | ng    | 99       |
| 9) Naphthalene                | 10.552 | 128  | 2613     | 0.197 | ng    | 96       |
| 10) Hexachlorobutadiene       | 10.851 | 225  | 641      | 0.198 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.167 | 142  | 1570     | 0.189 | ng    | 98       |
| 16) Acenaphthylene            | 14.067 | 152  | 2118     | 0.196 | ng    | 100      |
| 17) Acenaphthene              | 14.409 | 154  | 1384     | 0.189 | ng    | 98       |
| 18) Fluorene                  | 15.393 | 166  | 1817     | 0.189 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.467 | 198  | 100      | 0.295 | ng    | # 58     |
| 21) 4-Bromophenyl-phenylether | 16.292 | 248  | 567      | 0.187 | ng    | 97       |
| 22) Hexachlorobenzene         | 16.404 | 284  | 865      | 0.202 | ng    | 99       |
| 23) Atrazine                  | 16.553 | 200  | 303      | 0.177 | ng    | # 83     |
| 24) Pentachlorophenol         | 16.739 | 266  | 260      | 0.173 | ng    | 95       |
| 25) Phenanthrene              | 17.124 | 178  | 2796     | 0.191 | ng    | 99       |
| 26) Anthracene                | 17.223 | 178  | 2371     | 0.183 | ng    | 99       |
| 28) Fluoranthene              | 19.150 | 202  | 3041     | 0.181 | ng    | 99       |
| 30) Pyrene                    | 19.513 | 202  | 2987     | 0.199 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.259 | 228  | 2563     | 0.191 | ng    | 97       |
| 33) Chrysene                  | 21.304 | 228  | 3045     | 0.204 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 1040     | 0.188 | ng    | # 97     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.771 | 276  | 2821     | 0.173 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.838 | 252  | 2653     | 0.181 | ng    | # 91     |
| 38) Benzo(k)fluoranthene      | 22.882 | 252  | 3049     | 0.185 | ng    | # 90     |
| 39) Benzo(a)pyrene            | 23.414 | 252  | 2191     | 0.181 | ng    | # 83     |
| 40) Dibenzo(a,h)anthracene    | 25.785 | 278  | 2157     | 0.171 | ng    | # 89     |
| 41) Benzo(g,h,i)perylene      | 26.455 | 276  | 2459     | 0.185 | ng    | 93       |
| -----                         |        |      |          |       |       |          |

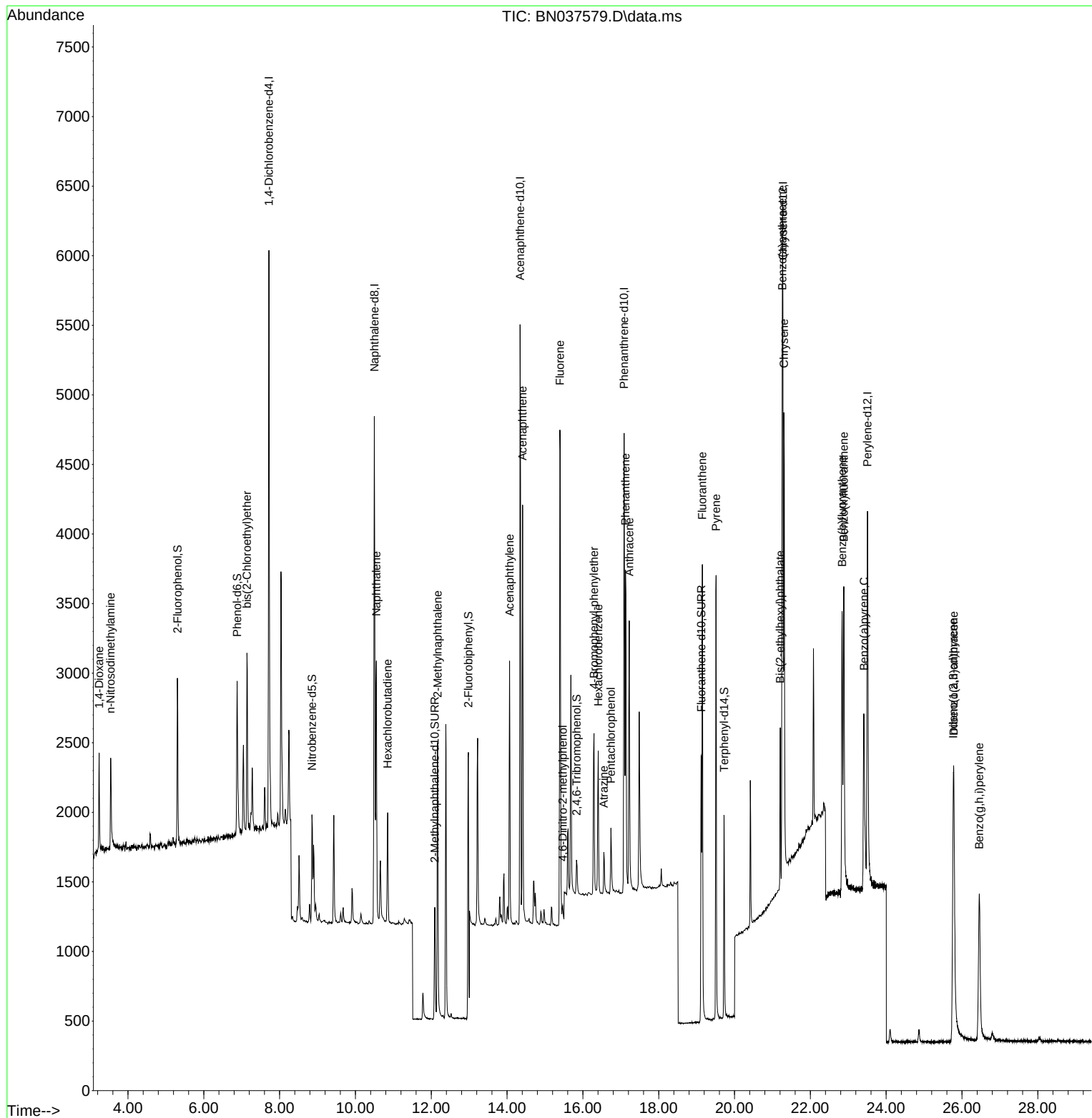
(#) = qualifier out of range (m) = manual integration (+) = signals summed

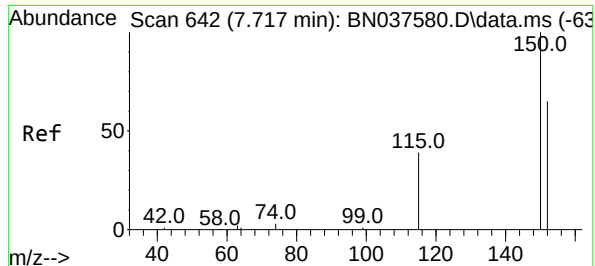


Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
 Data File : BN037579.D  
 Acq On : 12 Aug 2025 17:03  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Quant Time: Aug 13 04:47:58 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 04:46:02 2025  
 Response via : Initial Calibration

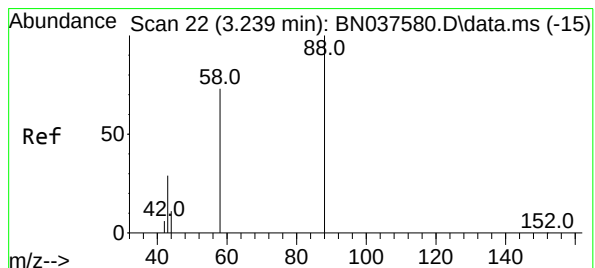
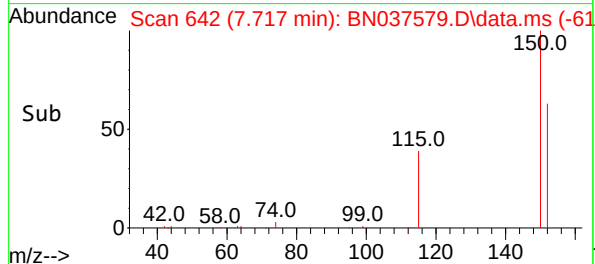
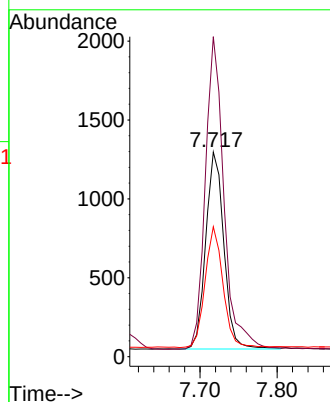
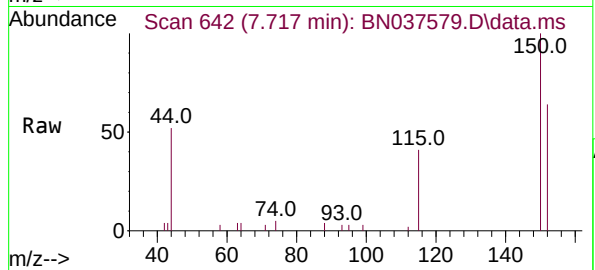




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

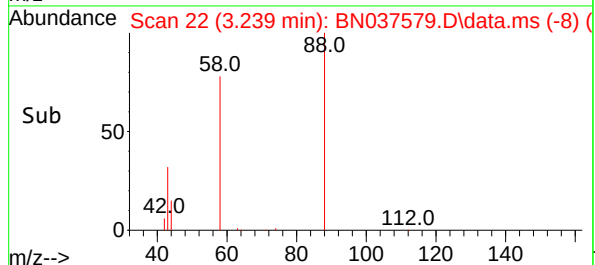
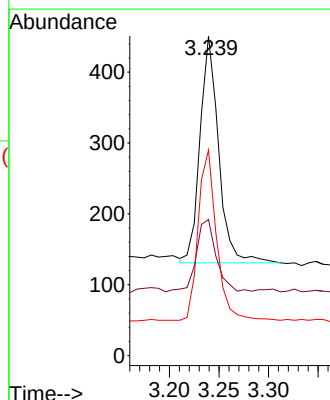
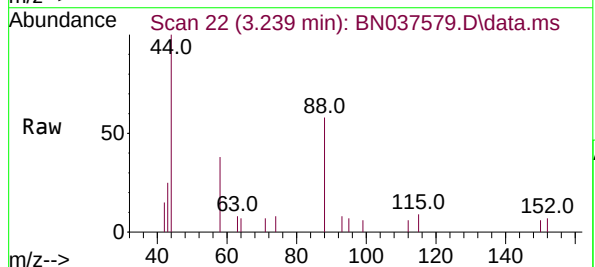
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

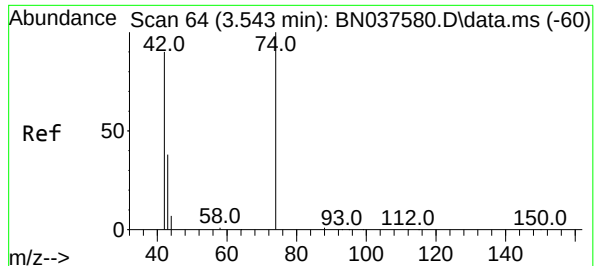
Tgt Ion:152 Resp: 2031  
Ion Ratio Lower Upper  
152 100  
150 156.4 122.2 183.4  
115 63.5 49.8 74.6



#2  
1,4-Dioxane  
Concen: 0.216 ng  
RT: 3.239 min Scan# 22  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

Tgt Ion: 88 Resp: 419  
Ion Ratio Lower Upper  
88 100  
43 34.8 25.8 38.6  
58 73.7 61.2 91.8

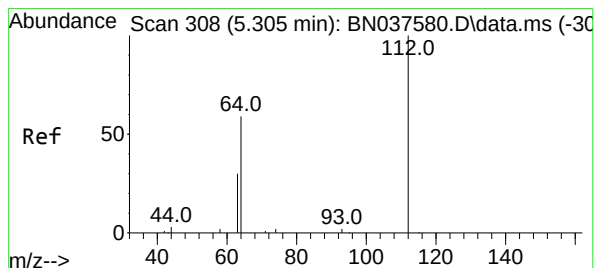
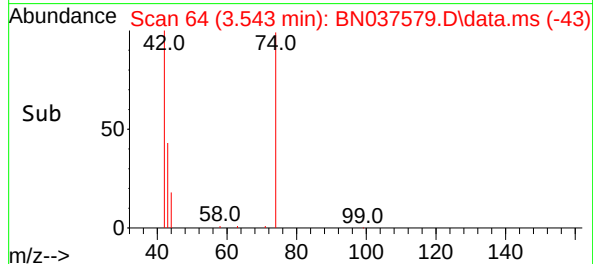
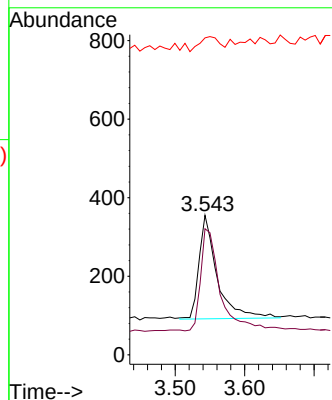
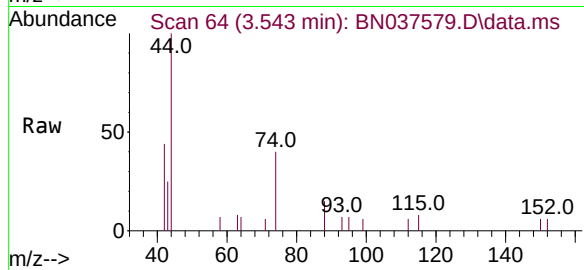




#3  
n-Nitrosodimethylamine  
Concen: 0.193 ng  
RT: 3.543 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

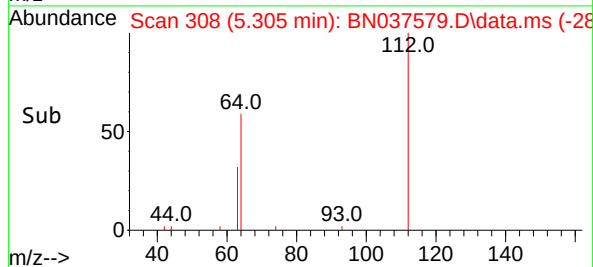
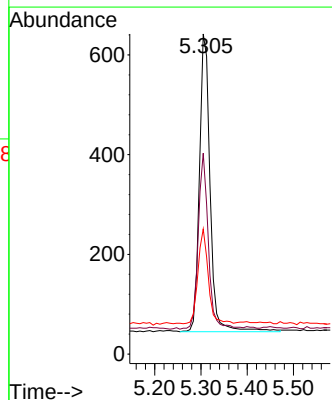
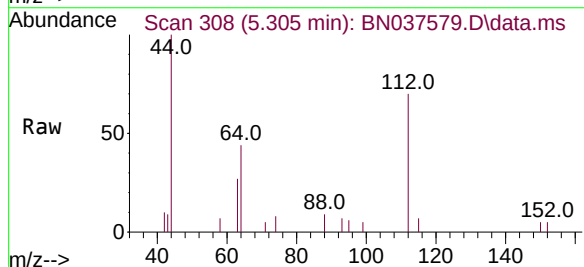
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

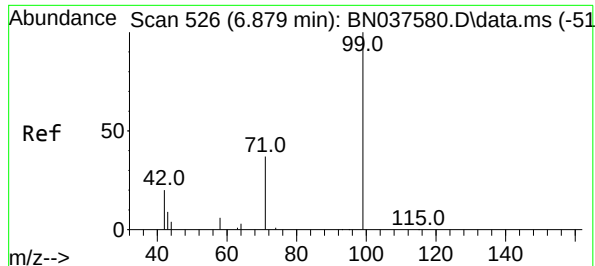
Tgt Ion: 42 Resp: 478  
Ion Ratio Lower Upper  
42 100  
74 107.5 82.0 123.0  
44 15.7 7.9 11.9#



#4  
2-Fluorophenol  
Concen: 0.209 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

Tgt Ion: 112 Resp: 960  
Ion Ratio Lower Upper  
112 100  
64 56.3 44.9 67.3  
63 30.9 23.4 35.2

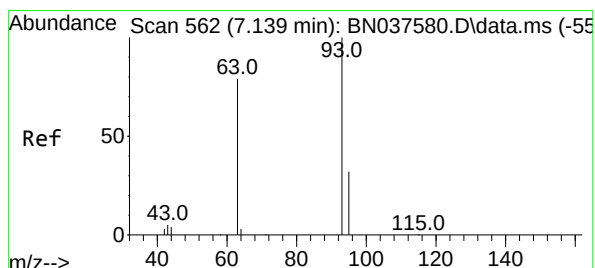
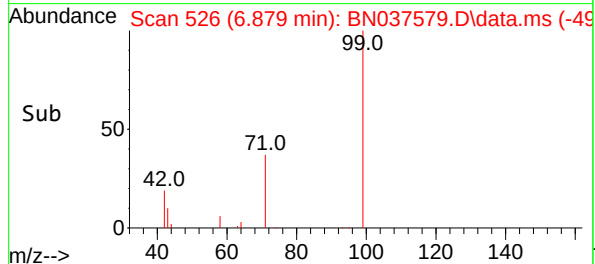
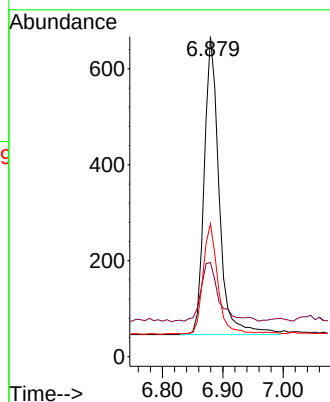
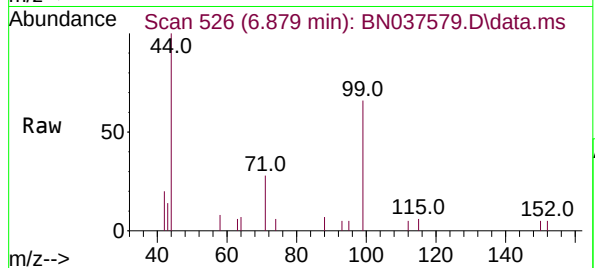




#5  
Phenol-d6  
Concen: 0.193 ng  
RT: 6.879 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

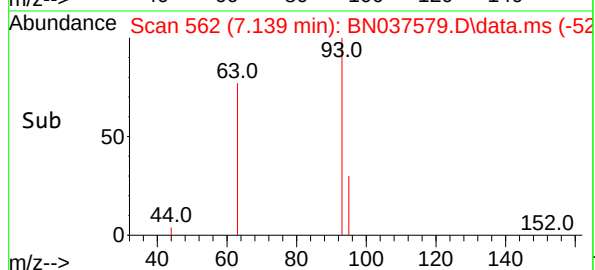
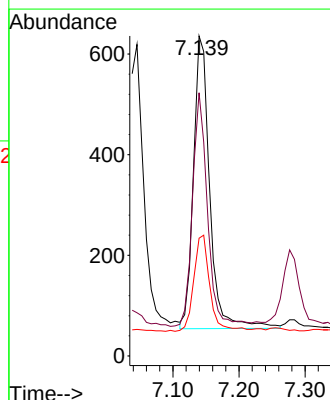
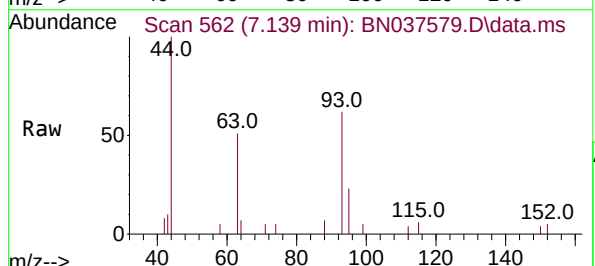
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

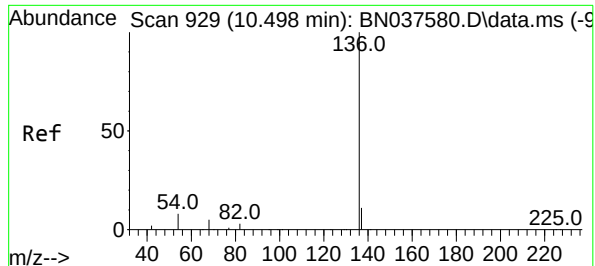
Tgt Ion: 99 Resp: 1067  
Ion Ratio Lower Upper  
99 100  
42 24.4 18.5 27.7  
71 35.7 28.6 42.8



#6  
bis(2-Chloroethyl)ether  
Concen: 0.201 ng  
RT: 7.139 min Scan# 562  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

Tgt Ion: 93 Resp: 1002  
Ion Ratio Lower Upper  
93 100  
63 73.4 58.0 87.0  
95 32.5 24.9 37.3

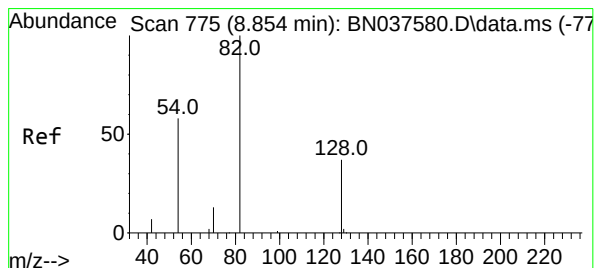
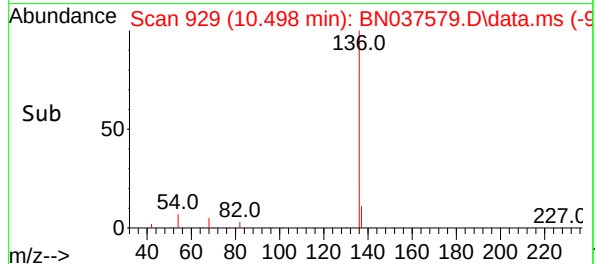
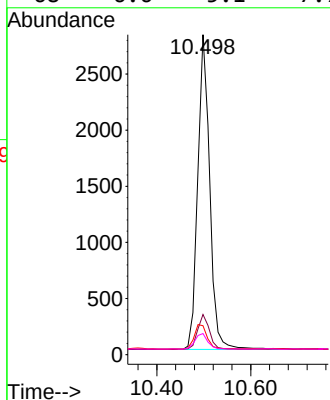
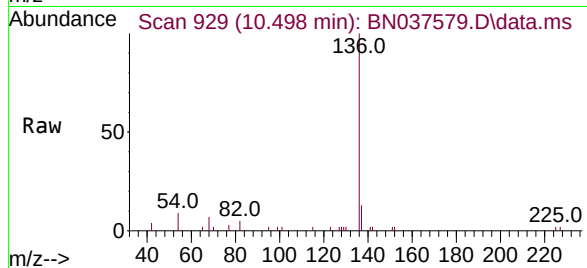




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

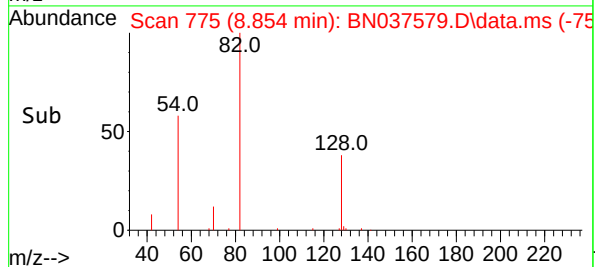
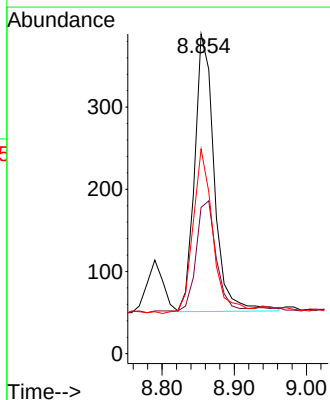
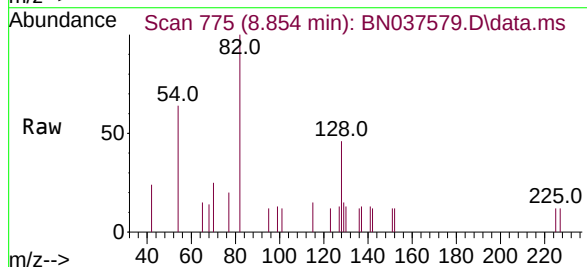
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

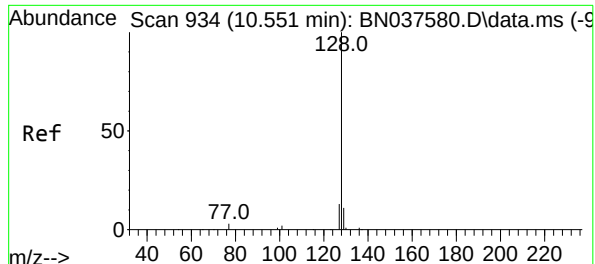
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4975  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.6  | 9.5   | 14.3  |
| 54       | 9.0   | 7.3   | 10.9  |
| 68       | 6.6   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.183 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 640   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.8  | 32.6  | 48.8  |
| 54       | 64.0  | 48.9  | 73.3  |

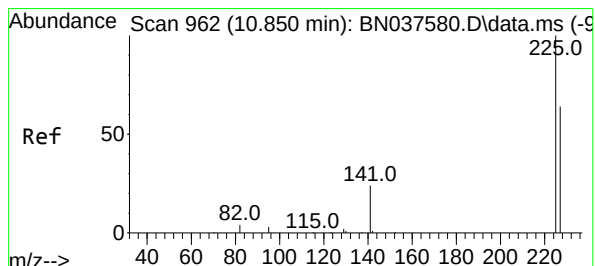
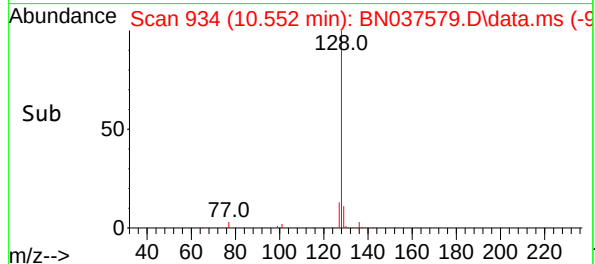
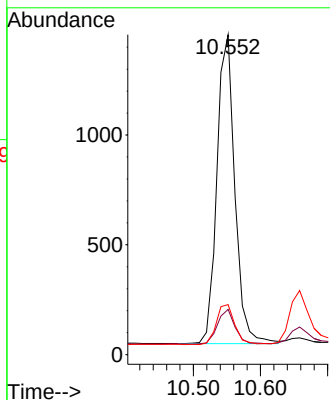
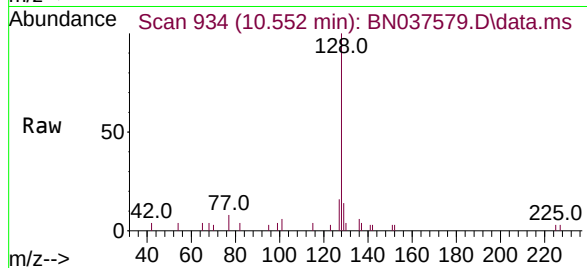




#9  
Naphthalene  
Concen: 0.197 ng  
RT: 10.552 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

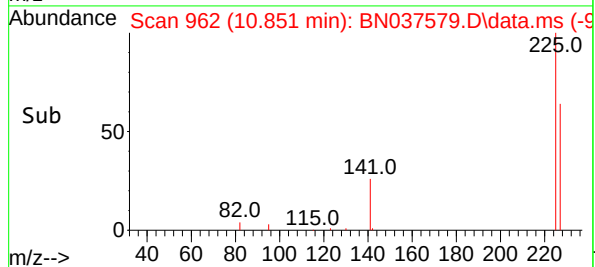
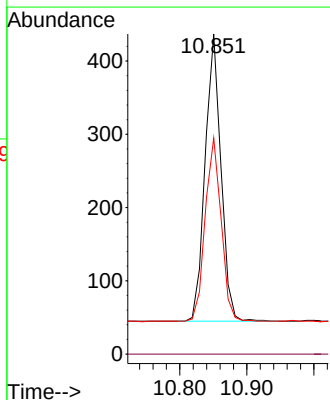
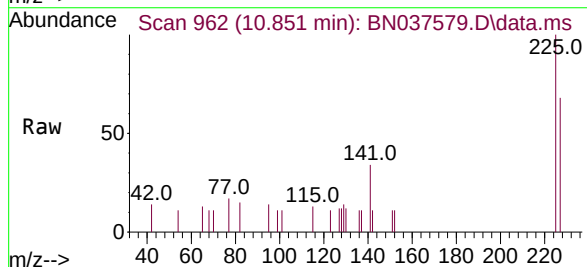
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

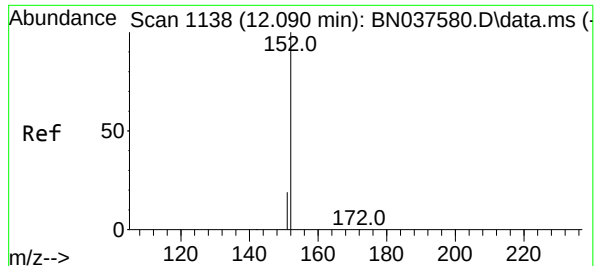
Tgt Ion:128 Resp: 2613  
Ion Ratio Lower Upper  
128 100  
129 14.1 9.8 14.6  
127 15.6 11.5 17.3



#10  
Hexachlorobutadiene  
Concen: 0.198 ng  
RT: 10.851 min Scan# 962  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

Tgt Ion:225 Resp: 641  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.1 50.8 76.2

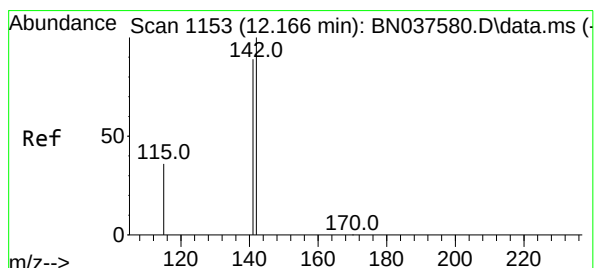
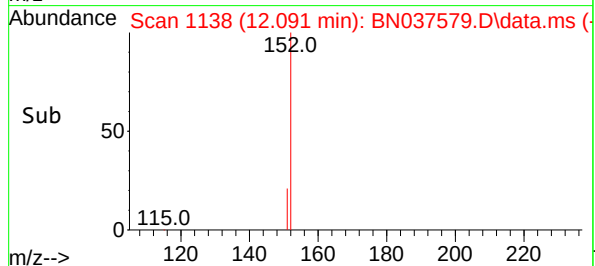
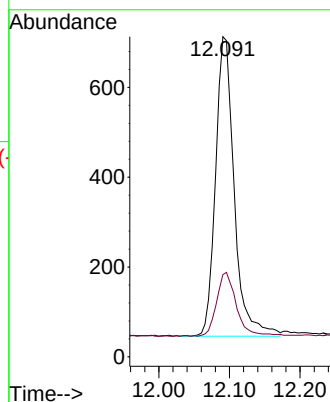
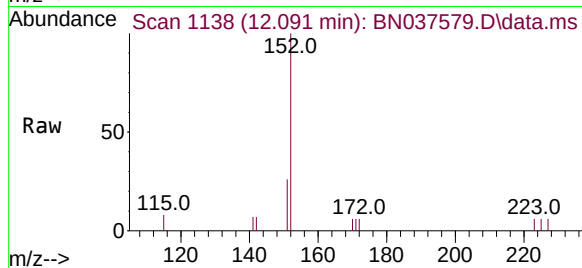




#11  
2-Methylnaphthalene-d10  
Concen: 0.181 ng  
RT: 12.091 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

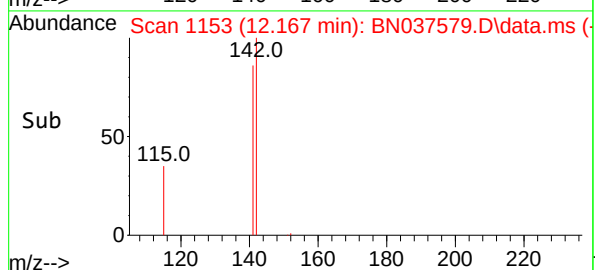
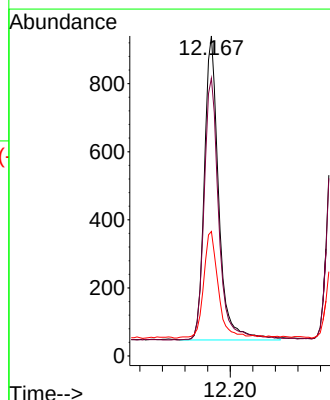
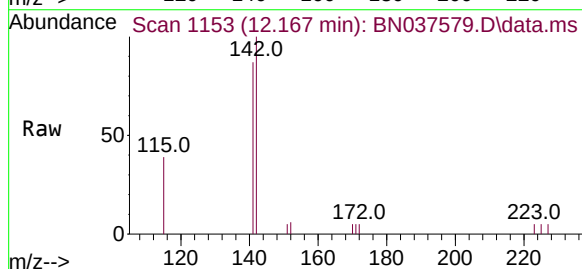
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

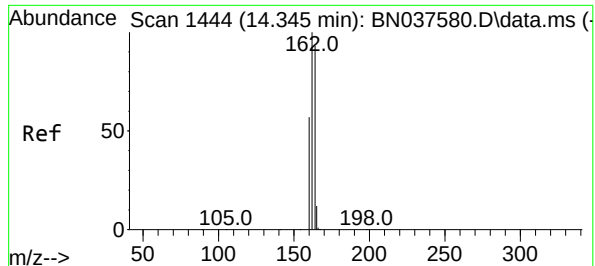
Tgt Ion:152 Resp: 1225  
Ion Ratio Lower Upper  
152 100  
151 22.7 17.3 25.9



#12  
2-Methylnaphthalene  
Concen: 0.189 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

Tgt Ion:142 Resp: 1570  
Ion Ratio Lower Upper  
142 100  
141 86.8 71.4 107.0  
115 38.9 30.2 45.4

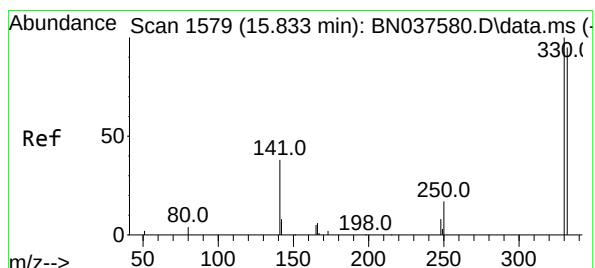
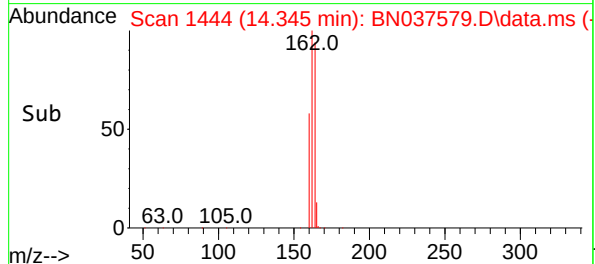
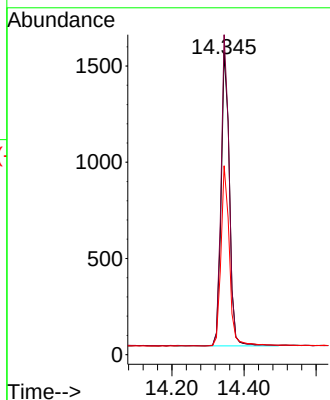
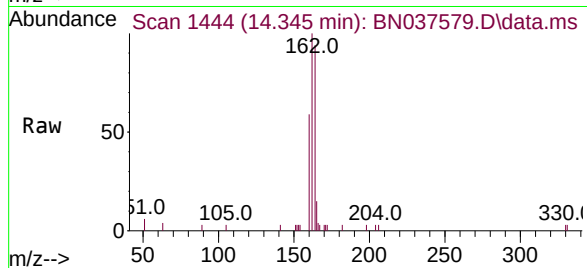




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

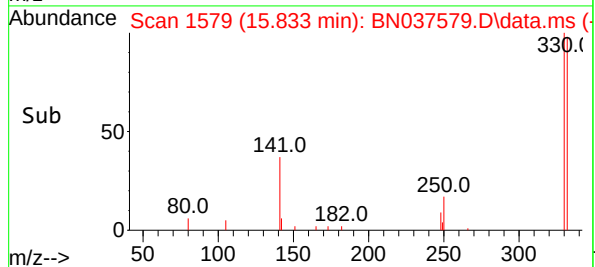
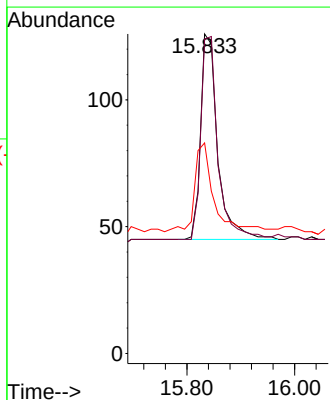
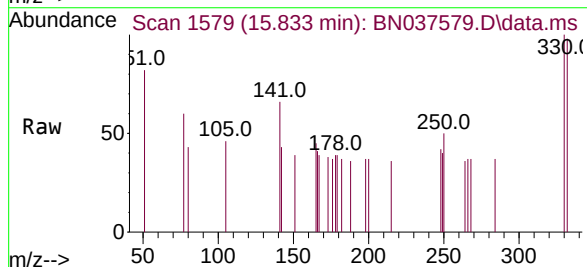
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Tgt Ion:164 Resp: 2407  
Ion Ratio Lower Upper  
164 100  
162 106.0 85.5 128.3  
160 62.6 49.5 74.3

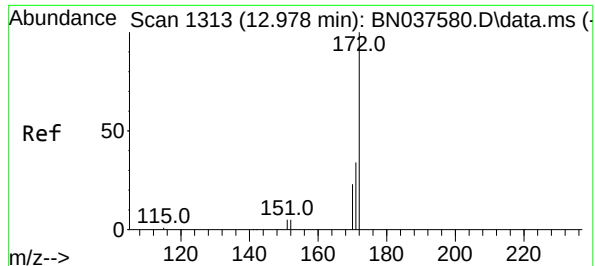


#14  
2,4,6-Tribromophenol  
Concen: 0.170 ng  
RT: 15.833 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

Tgt Ion:330 Resp: 179  
Ion Ratio Lower Upper  
330 100  
332 98.9 77.4 116.0  
141 48.0 30.9 46.3#



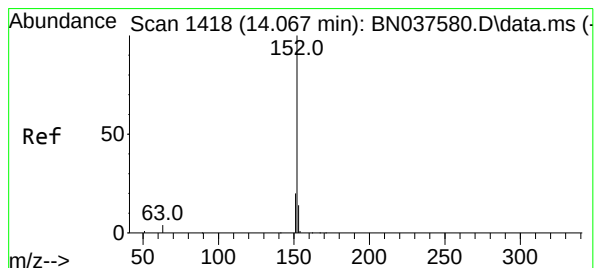
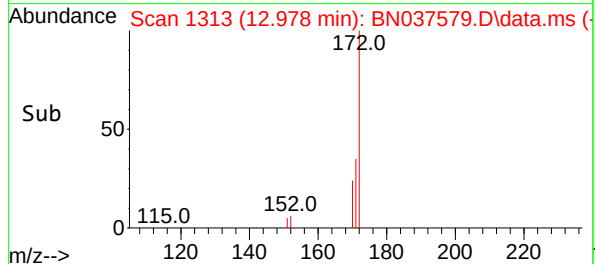
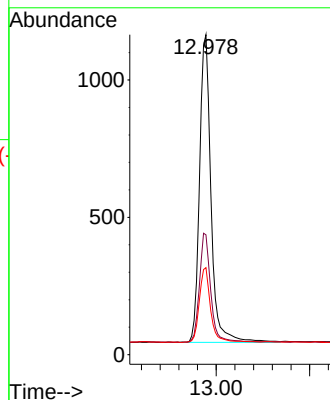
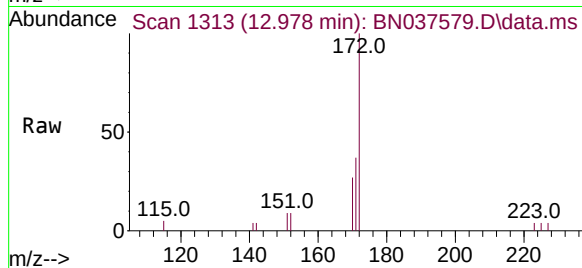




#15  
2-Fluorobiphenyl  
Concen: 0.194 ng  
RT: 12.978 min Scan# 1313  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

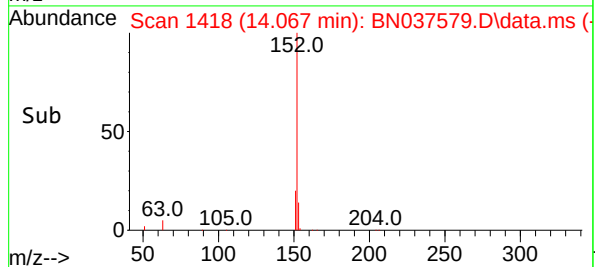
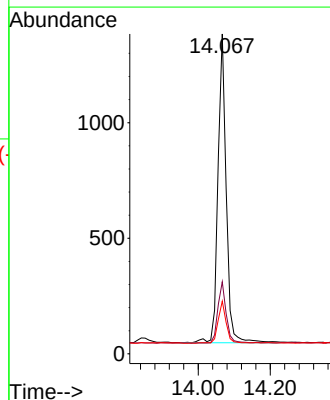
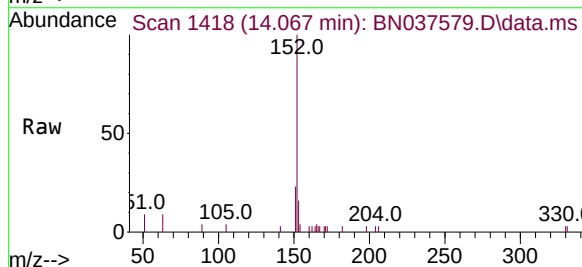
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

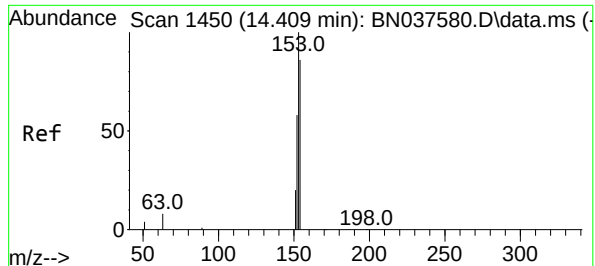
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 37.4  | 28.2  | 42.4  |
| 170     | 27.2  | 19.2  | 28.8  |



#16  
Acenaphthylene  
Concen: 0.196 ng  
RT: 14.067 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.4  | 16.1  | 24.1  |
| 153     | 13.3  | 10.7  | 16.1  |

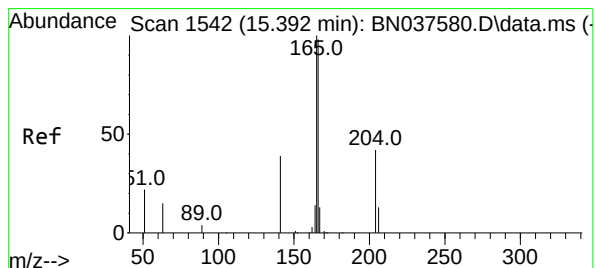
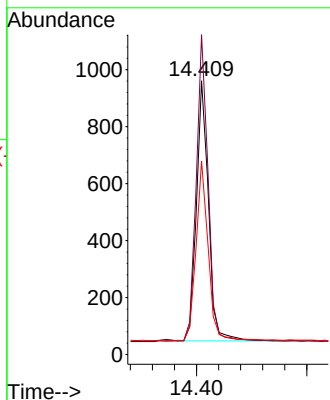
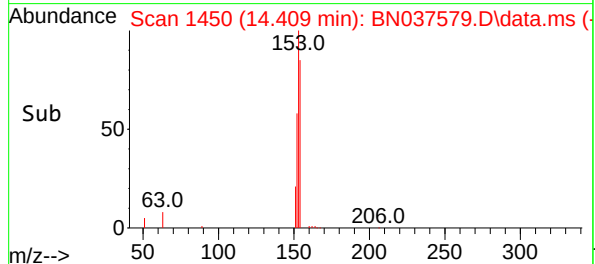
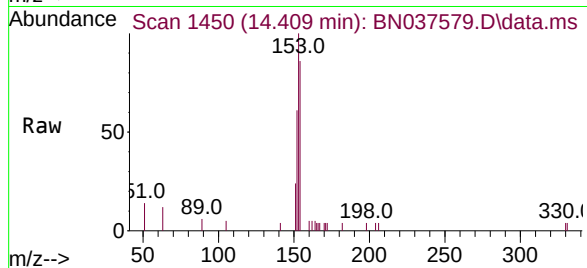




#17  
Acenaphthene  
Concen: 0.189 ng  
RT: 14.409 min Scan# 1450  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

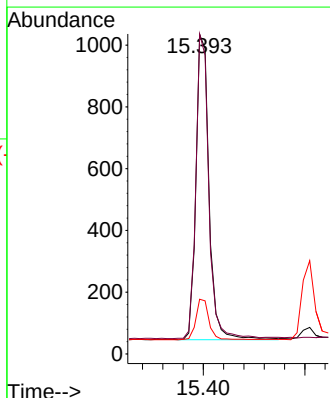
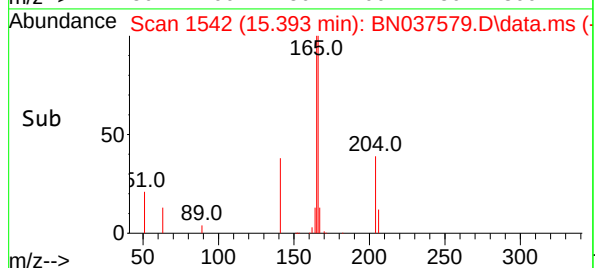
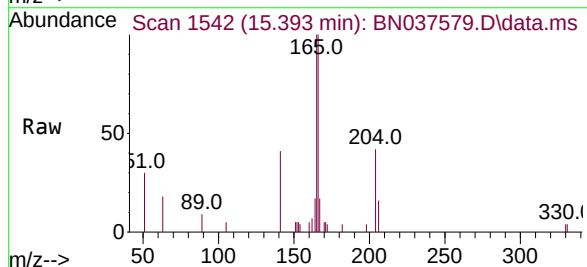
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

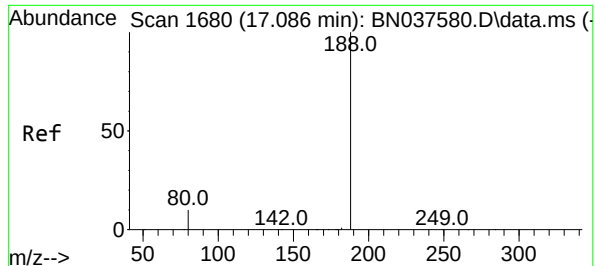
Tgt Ion:154 Resp: 1384  
Ion Ratio Lower Upper  
154 100  
153 115.7 90.6 135.8  
152 70.7 54.9 82.3



#18  
Fluorene  
Concen: 0.189 ng  
RT: 15.393 min Scan# 1542  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

Tgt Ion:166 Resp: 1817  
Ion Ratio Lower Upper  
166 100  
165 96.0 78.9 118.3  
167 12.9 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

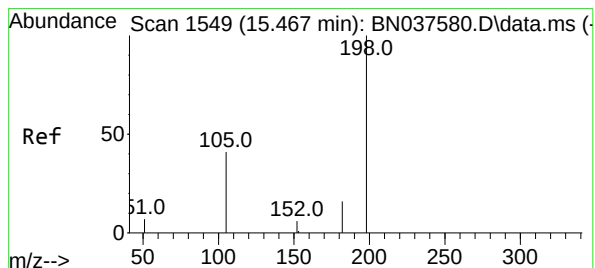
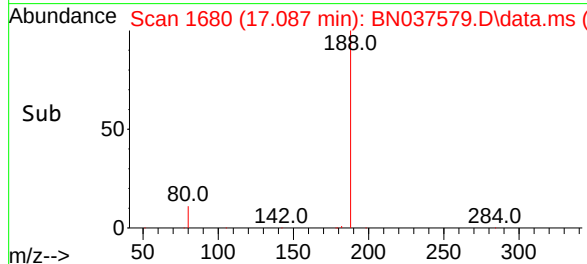
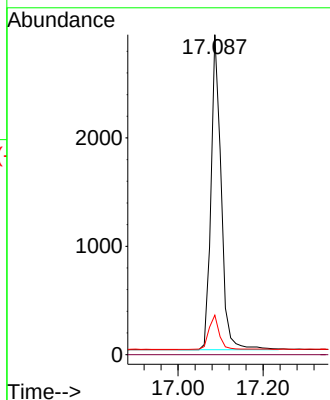
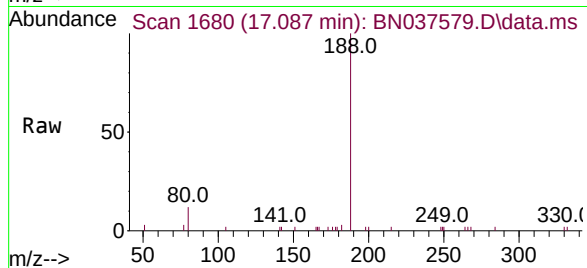
Tgt Ion:188 Resp: 4812

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.3 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.295 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

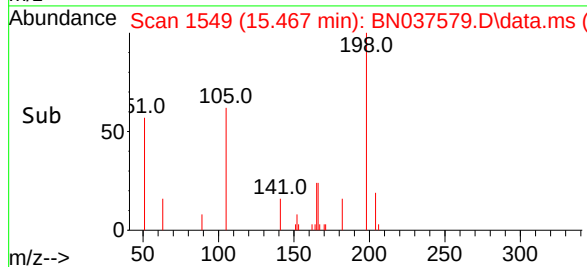
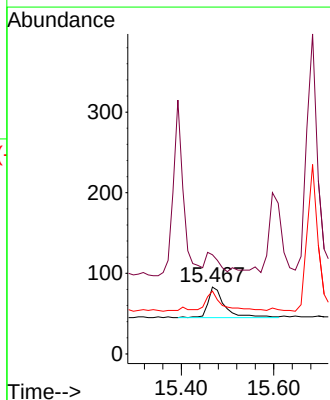
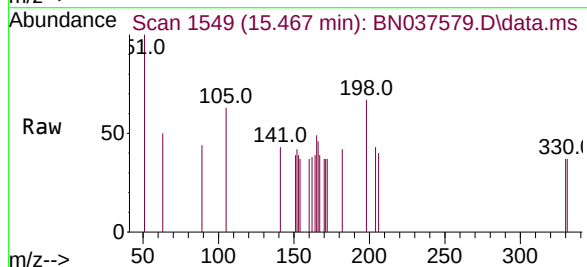
Tgt Ion:198 Resp: 100

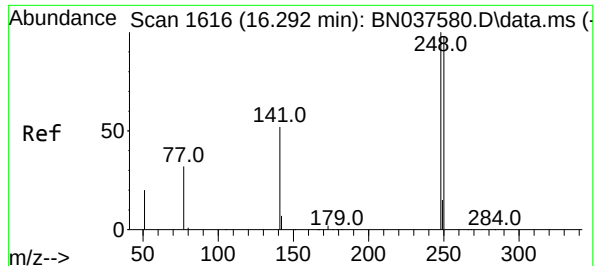
Ion Ratio Lower Upper

198 100

51 148.2 81.0 121.6#

105 94.0 52.5 78.7#

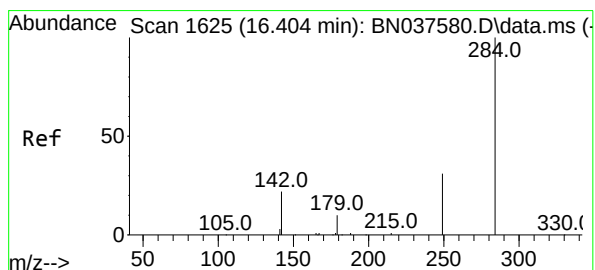
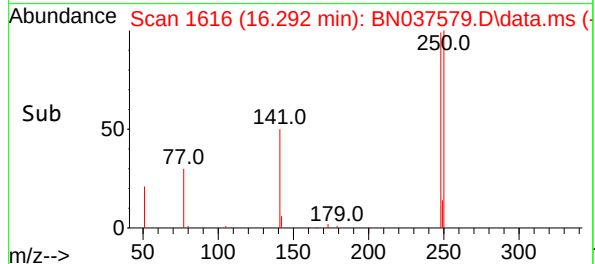
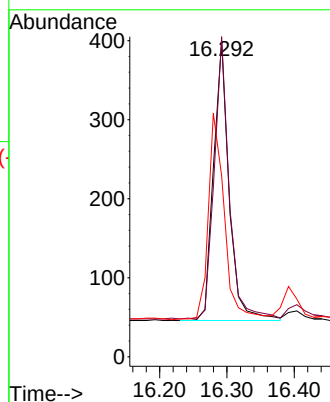
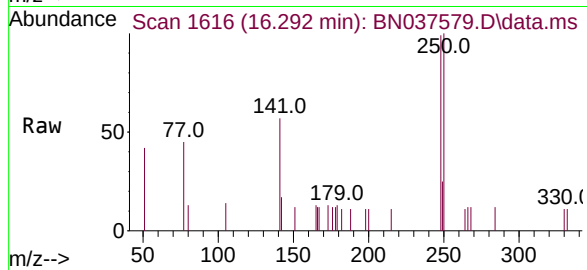




#21  
4-Bromophenyl-phenylether  
Concen: 0.187 ng  
RT: 16.292 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

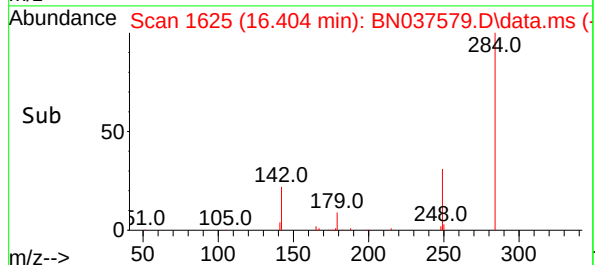
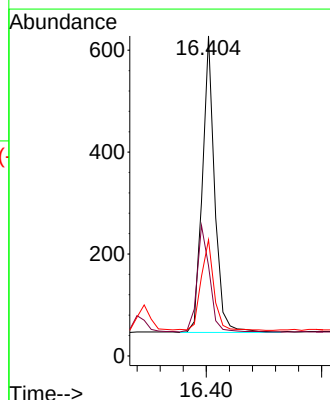
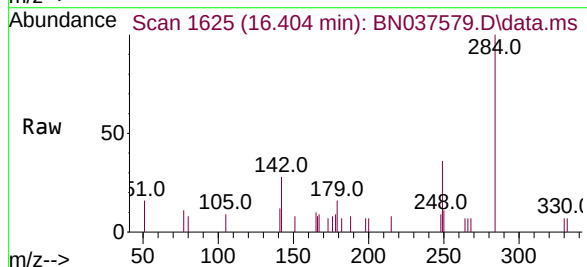
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

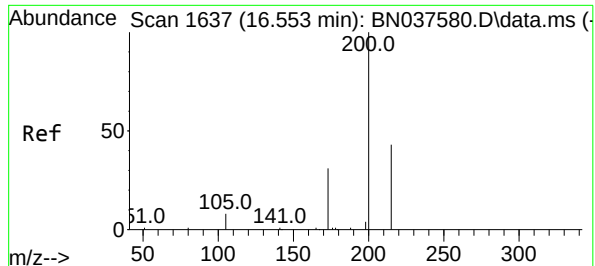
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 101.3 | 78.6  | 118.0 |
| 141     | 57.3  | 43.7  | 65.5  |



#22  
Hexachlorobenzene  
Concen: 0.202 ng  
RT: 16.404 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 36.3  | 29.8  | 44.6  |
| 249     | 32.6  | 26.0  | 39.0  |

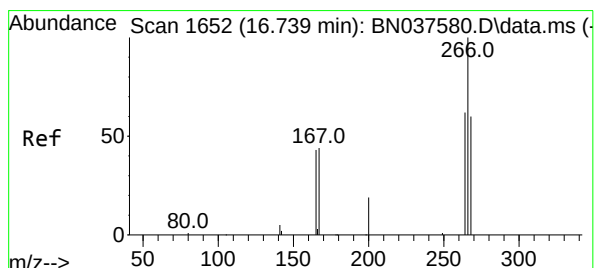
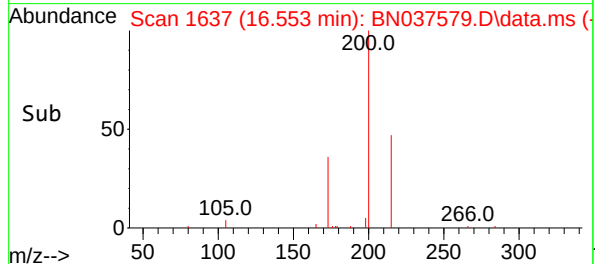
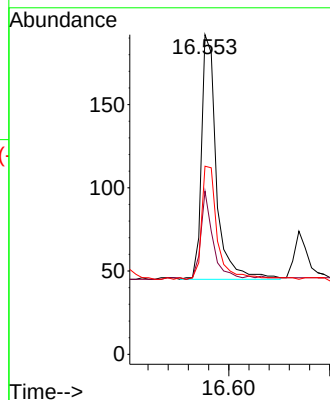
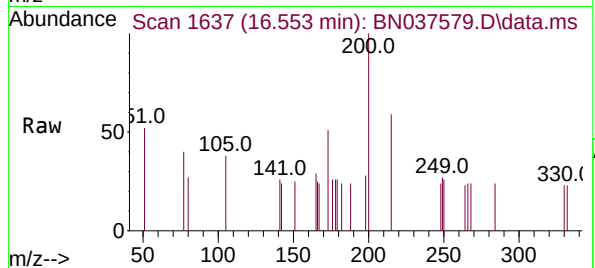




#23  
Atrazine  
Concen: 0.177 ng  
RT: 16.553 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

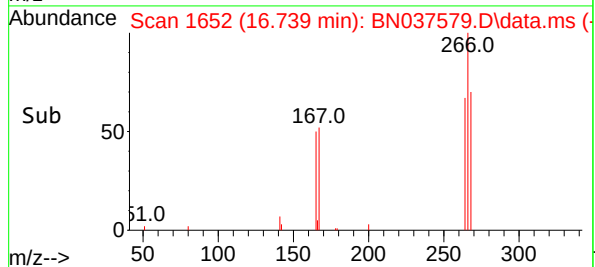
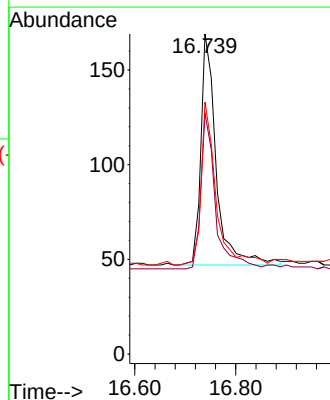
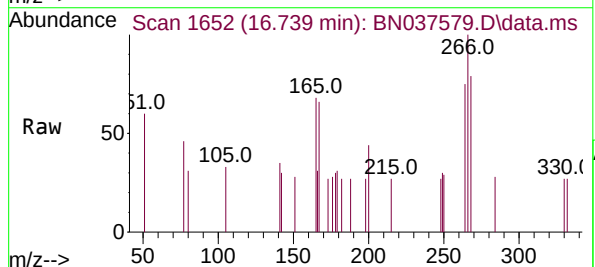
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

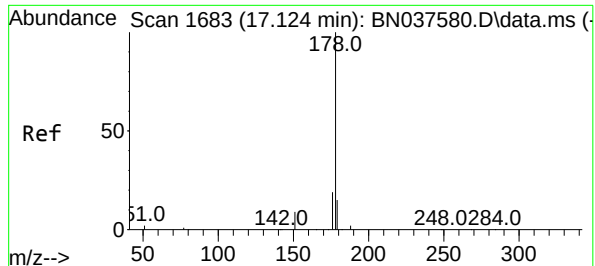
Tgt Ion:200 Resp: 303  
Ion Ratio Lower Upper  
200 100  
173 51.0 31.0 46.4#  
215 58.9 39.4 59.0



#24  
Pentachlorophenol  
Concen: 0.173 ng  
RT: 16.739 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

Tgt Ion:266 Resp: 260  
Ion Ratio Lower Upper  
266 100  
264 63.5 49.6 74.4  
268 68.1 49.2 73.8

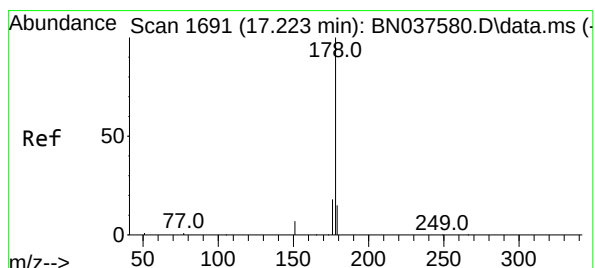
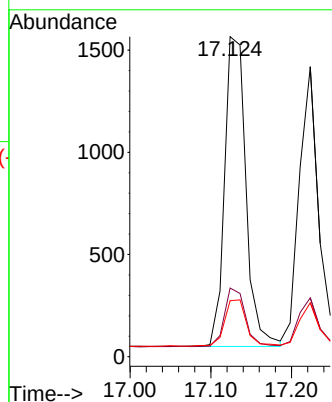
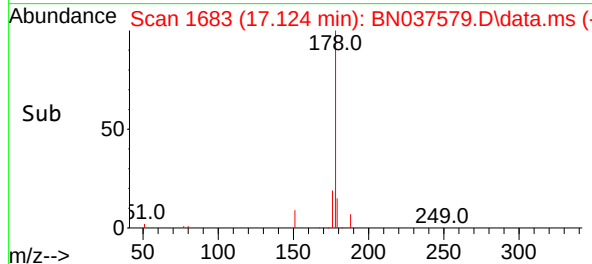
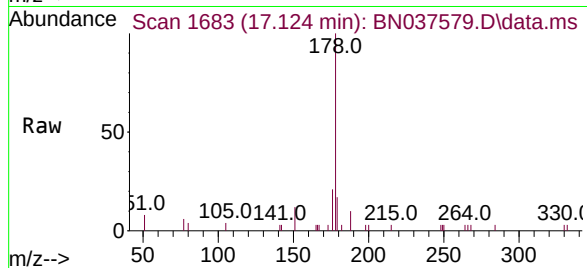




#25  
Phenanthrene  
Concen: 0.191 ng  
RT: 17.124 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

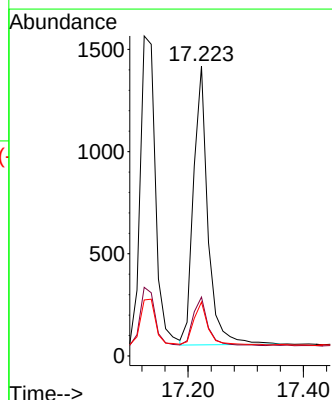
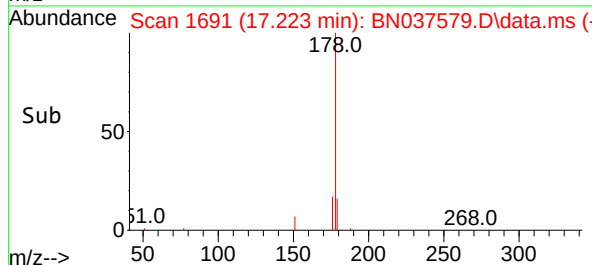
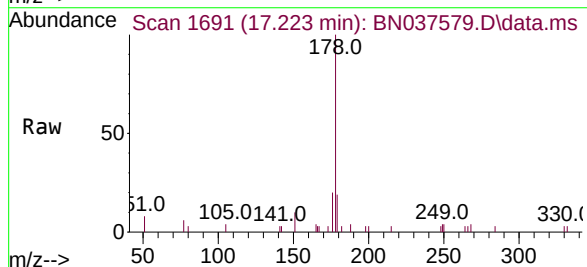
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

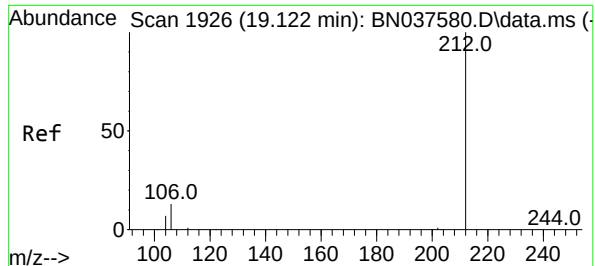
Tgt Ion:178 Resp: 2796  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.0 22.6  
179 15.2 12.3 18.5



#26  
Anthracene  
Concen: 0.183 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

Tgt Ion:178 Resp: 2371  
Ion Ratio Lower Upper  
178 100  
176 18.0 14.7 22.1  
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.184 ng

RT: 19.123 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

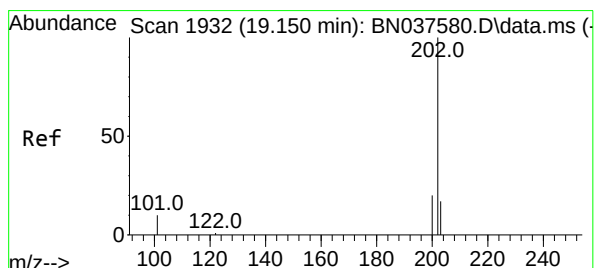
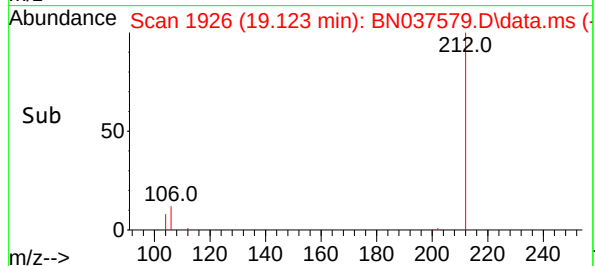
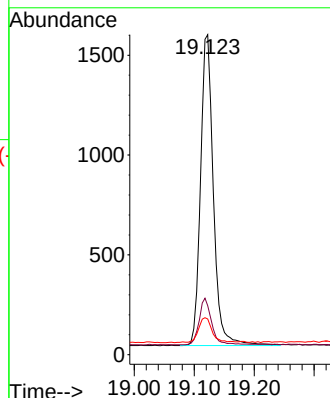
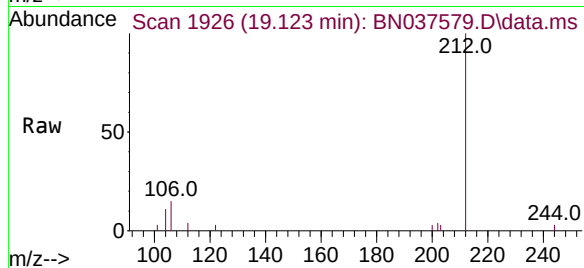
Tgt Ion:212 Resp: 2323

Ion Ratio Lower Upper

212 100

106 14.5 11.5 17.3

104 8.7 6.6 9.8



#28

Fluoranthene

Concen: 0.181 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

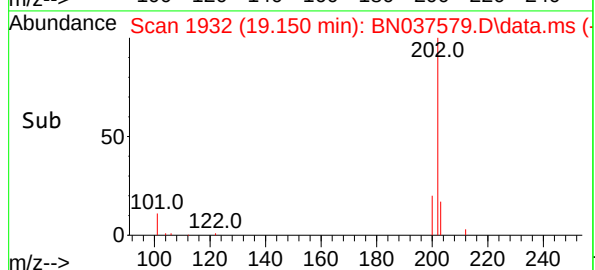
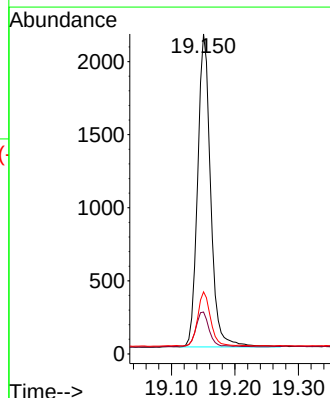
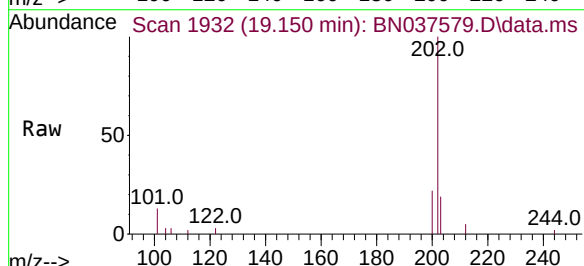
Tgt Ion:202 Resp: 3041

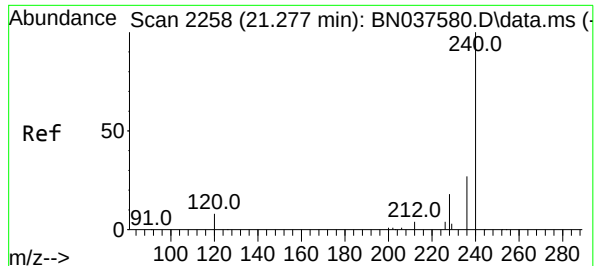
Ion Ratio Lower Upper

202 100

101 11.5 9.0 13.6

203 16.9 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

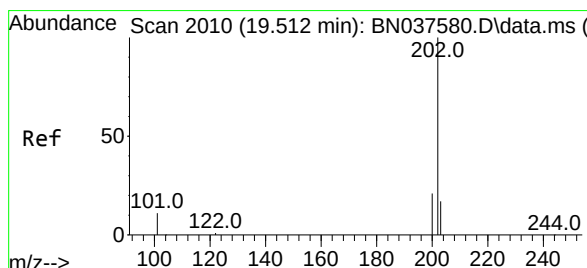
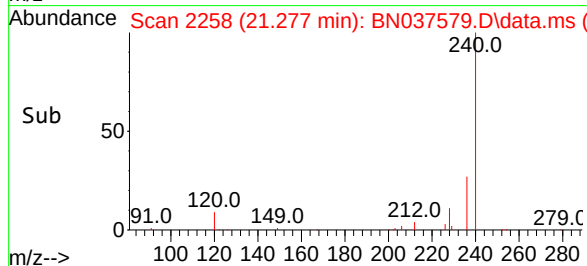
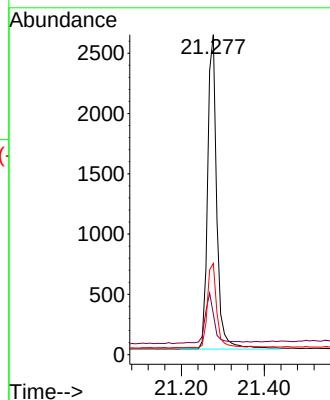
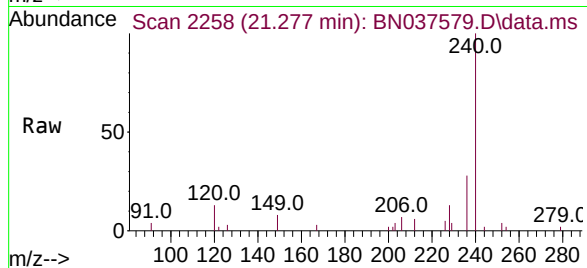
Tgt Ion:240 Resp: 4019

Ion Ratio Lower Upper

240 100

120 12.7 8.9 13.3

236 28.5 22.6 33.8



#30

Pyrene

Concen: 0.199 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

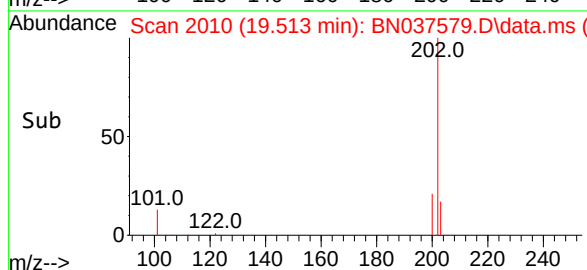
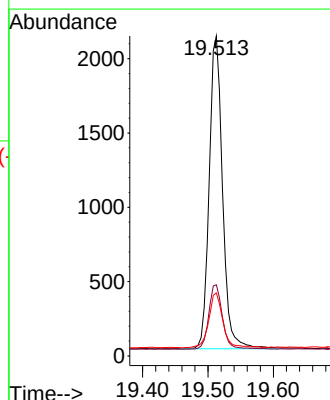
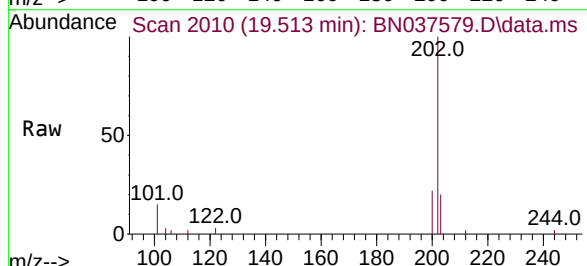
Tgt Ion:202 Resp: 2987

Ion Ratio Lower Upper

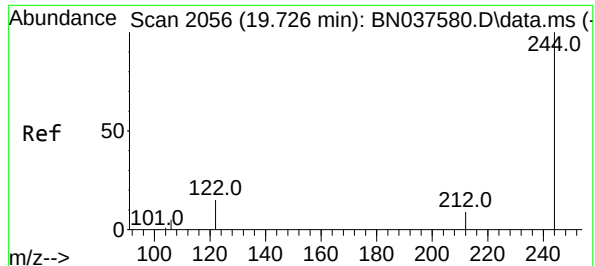
202 100

200 20.9 16.6 25.0

203 18.5 14.3 21.5



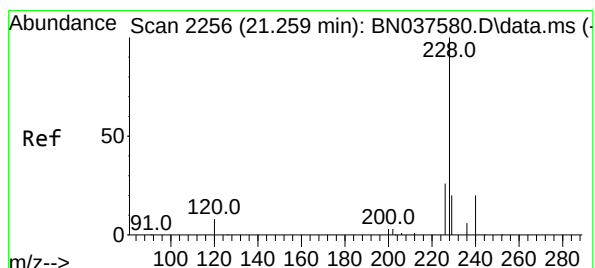
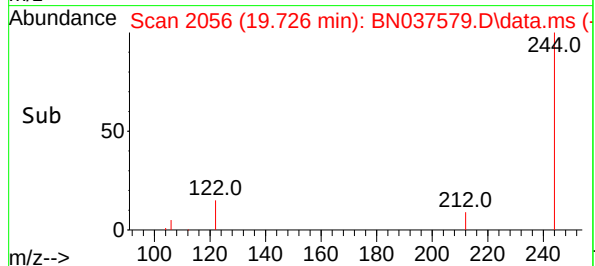
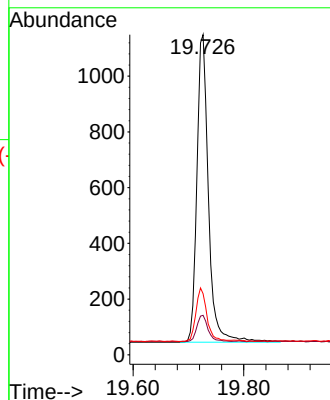
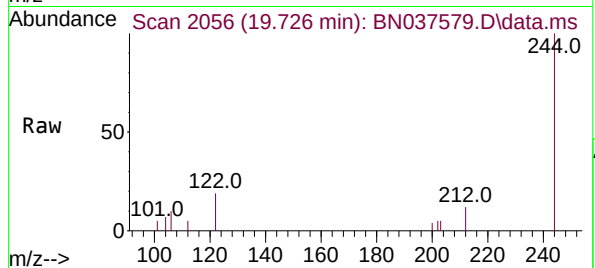




#31  
Terphenyl-d14  
Concen: 0.195 ng  
RT: 19.726 min Scan# 2056  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

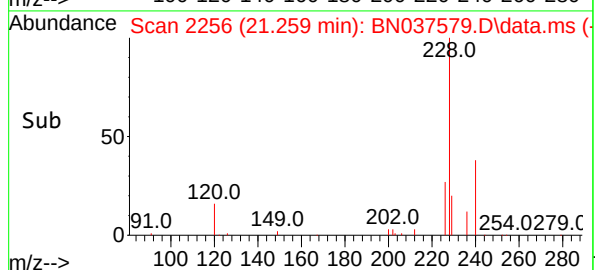
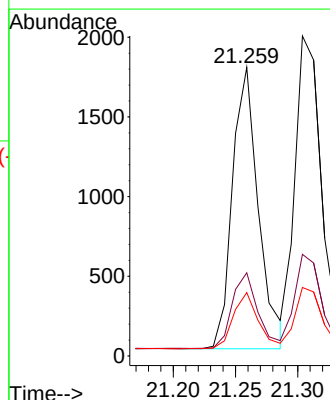
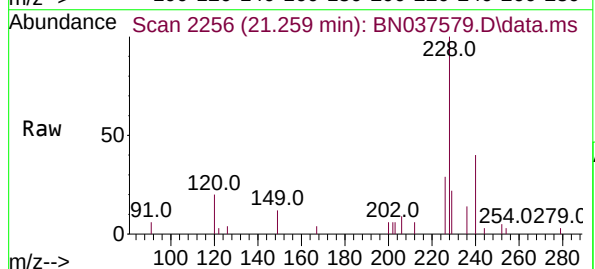
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

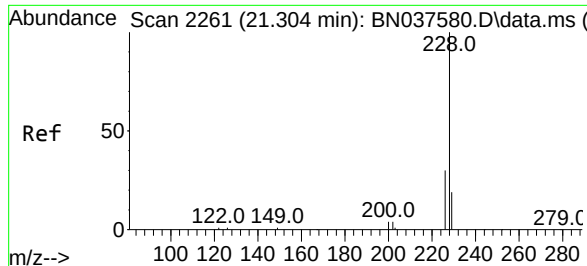
Tgt Ion:244 Resp: 1609  
Ion Ratio Lower Upper  
244 100  
212 12.4 8.2 12.2#  
122 19.1 13.2 19.8



#32  
Benzo(a)anthracene  
Concen: 0.191 ng  
RT: 21.259 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: BN037579.D  
Acq: 12 Aug 2025 17:03

Tgt Ion:228 Resp: 2563  
Ion Ratio Lower Upper  
228 100  
226 28.8 21.5 32.3  
229 22.0 16.5 24.7





#33

Chrysene

Concen: 0.204 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

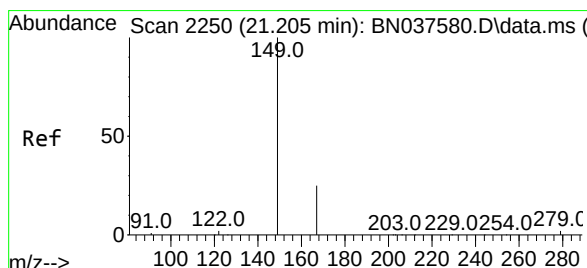
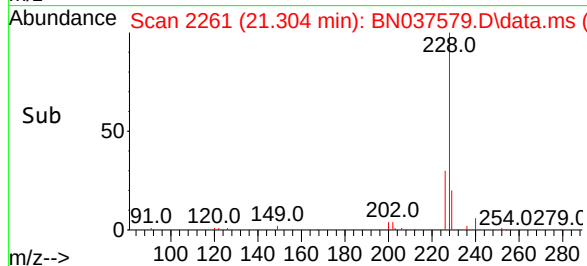
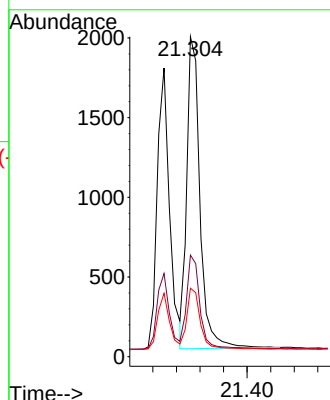
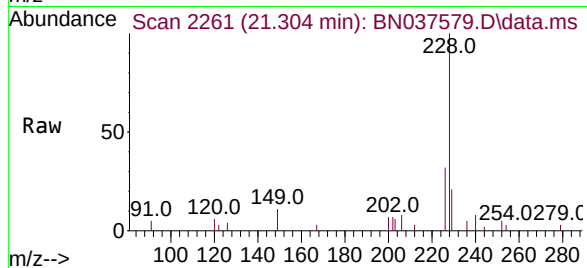
Tgt Ion:228 Resp: 3045

Ion Ratio Lower Upper

228 100

226 31.8 24.9 37.3

229 21.4 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.188 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

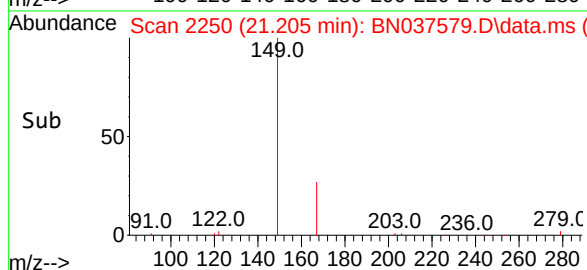
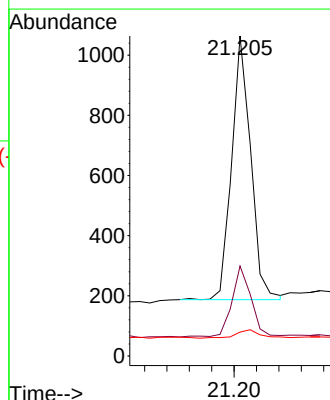
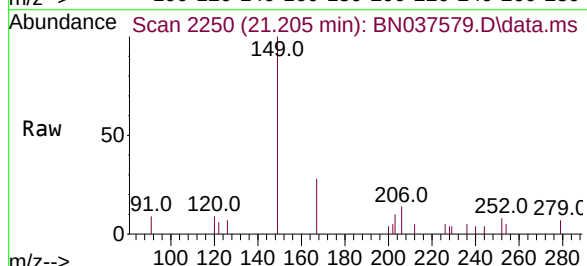
Tgt Ion:149 Resp: 1040

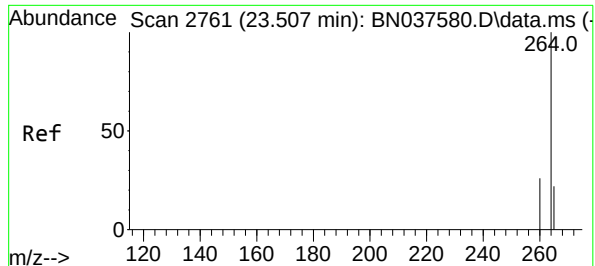
Ion Ratio Lower Upper

149 100

167 27.2 20.5 30.7

279 4.0 2.6 4.0#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.508 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

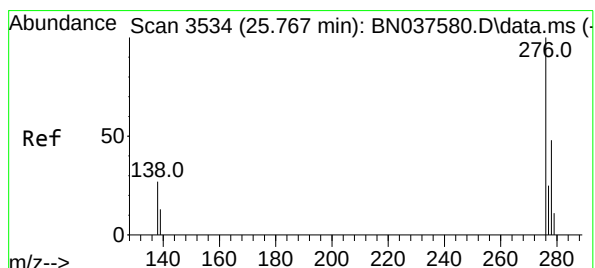
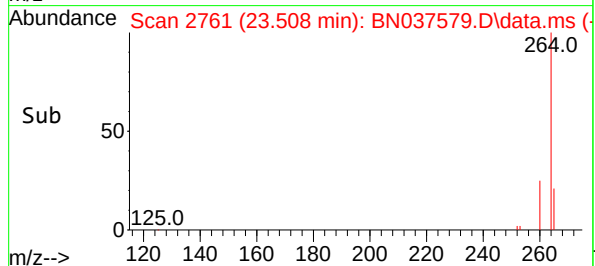
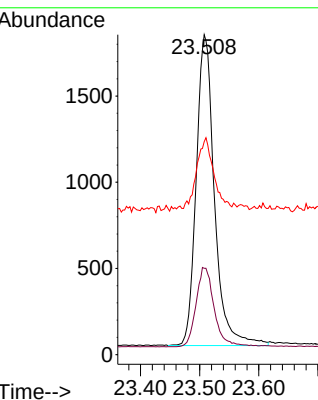
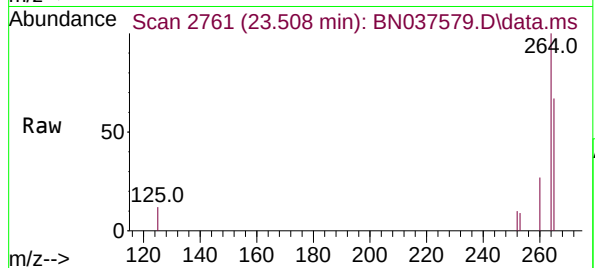
Tgt Ion:264 Resp: 3859

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 66.5 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.173 ng

RT: 25.771 min Scan# 3535

Delta R.T. 0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

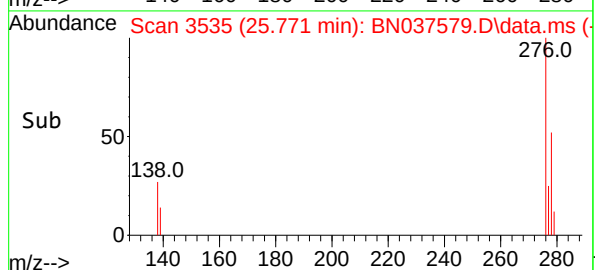
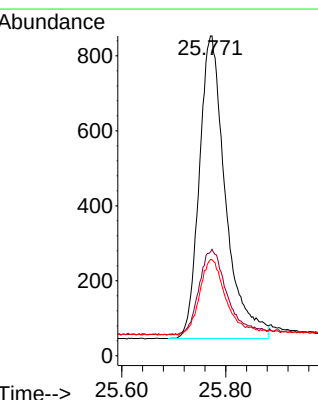
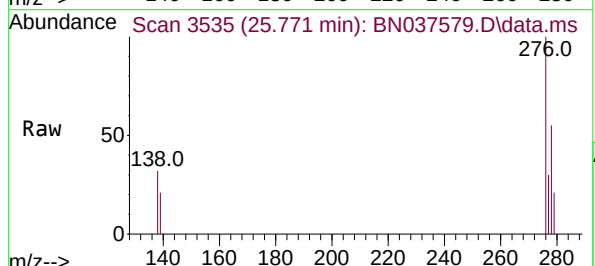
Tgt Ion:276 Resp: 2821

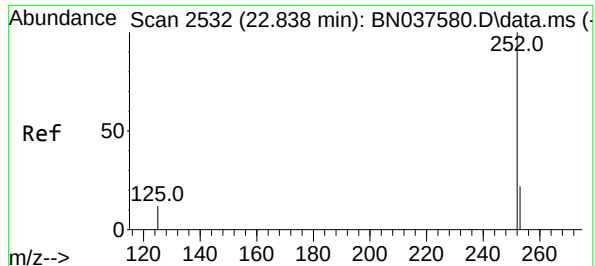
Ion Ratio Lower Upper

276 100

138 30.8 23.3 34.9

277 25.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.181 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

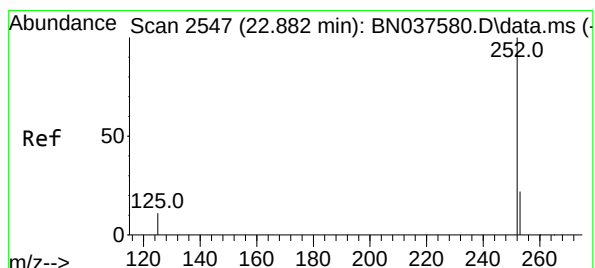
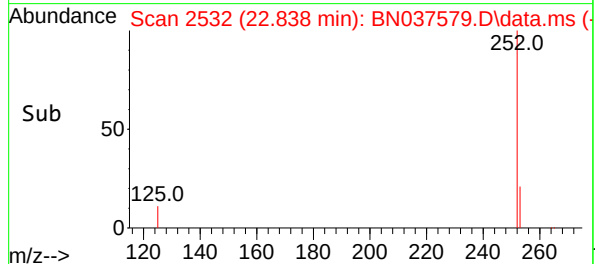
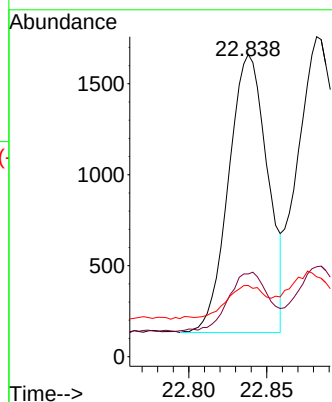
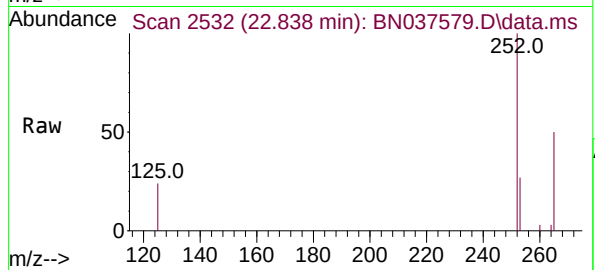
Tgt Ion:252 Resp: 2653

Ion Ratio Lower Upper

252 100

253 27.4 20.0 30.0

125 23.5 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 0.185 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

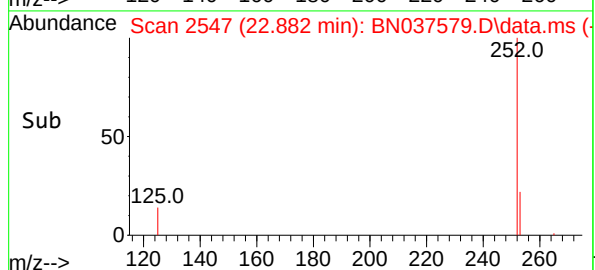
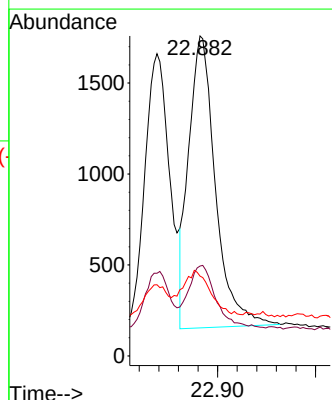
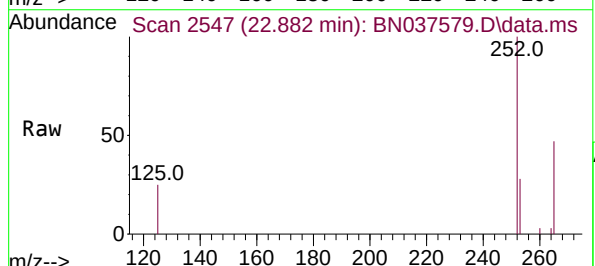
Tgt Ion:252 Resp: 3049

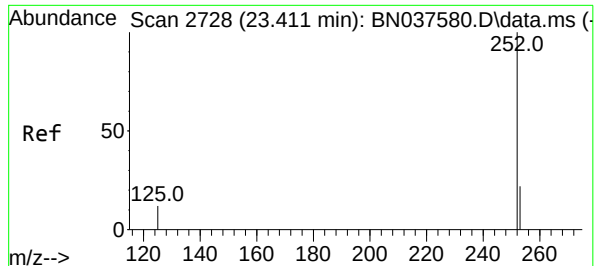
Ion Ratio Lower Upper

252 100

253 28.1 19.9 29.9

125 25.0 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 0.181 ng

RT: 23.414 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

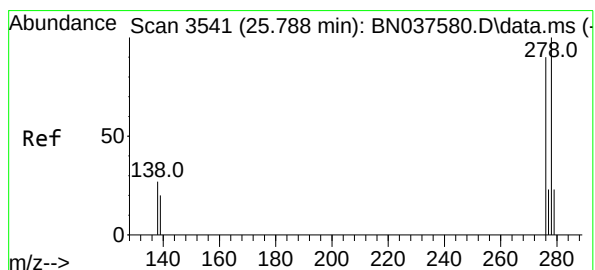
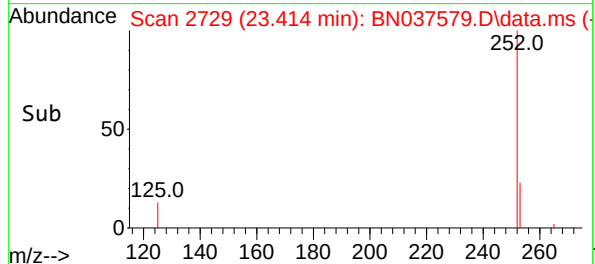
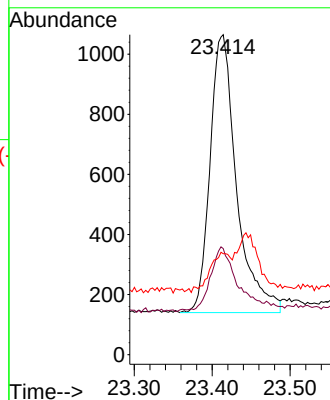
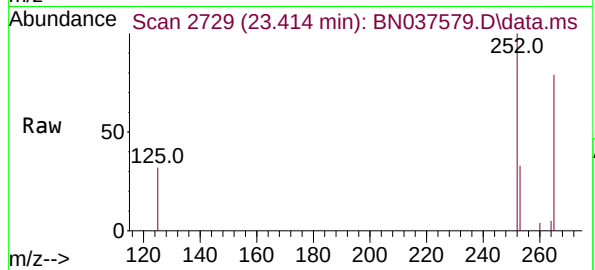
Tgt Ion:252 Resp: 2191

Ion Ratio Lower Upper

252 100

253 33.1 21.6 32.4#

125 31.5 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.171 ng

RT: 25.785 min Scan# 3540

Delta R.T. -0.003 min

Lab File: BN037579.D

Acq: 12 Aug 2025 17:03

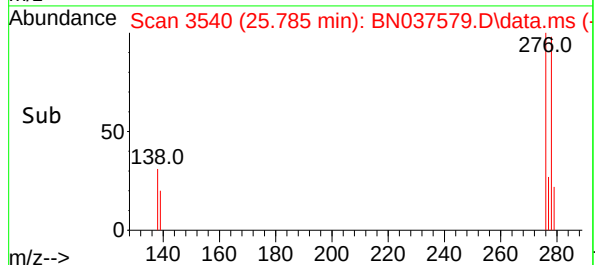
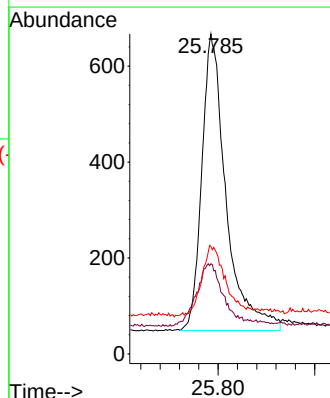
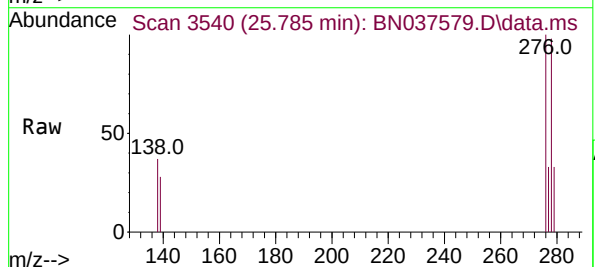
Tgt Ion:278 Resp: 2157

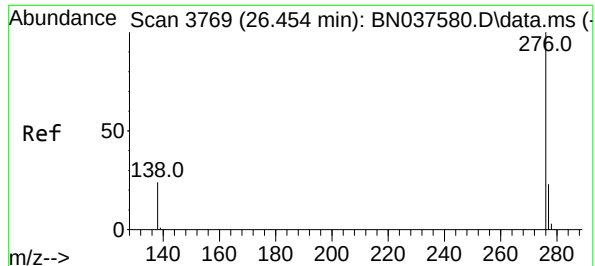
Ion Ratio Lower Upper

278 100

139 28.2 18.3 27.5#

279 33.6 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.185 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037579.D

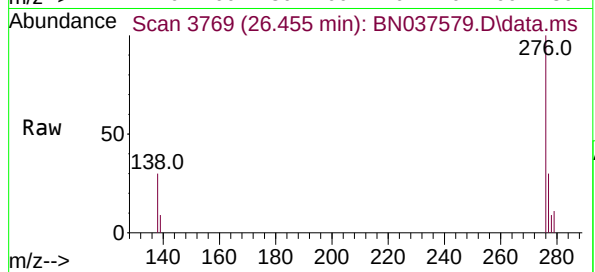
Acq: 12 Aug 2025 17:03

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



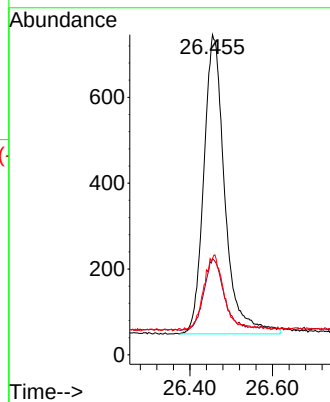
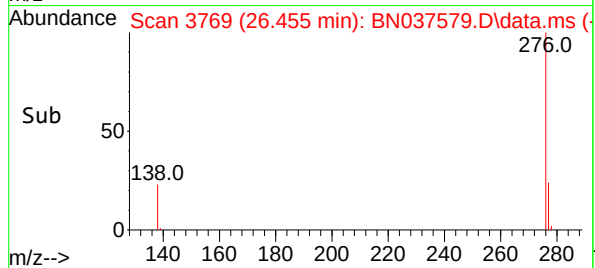
Tgt Ion:276 Resp: 2459

Ion Ratio Lower Upper

276 100

277 30.0 21.0 31.4

138 30.0 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
 Data File : BN037580.D  
 Acq On : 12 Aug 2025 17:39  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Quant Time: Aug 13 04:48:21 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 04:46:02 2025  
 Response via : Initial Calibration

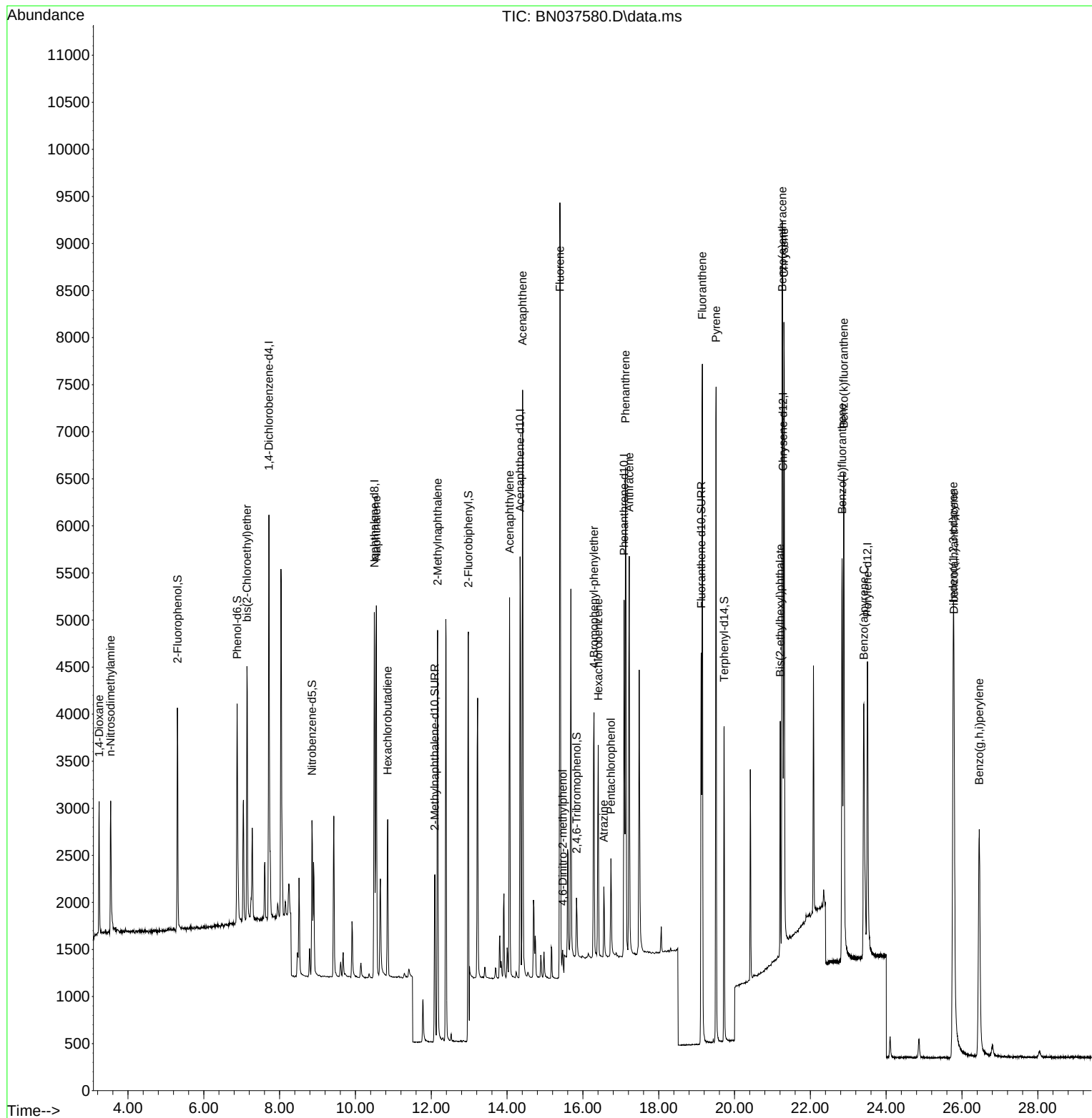
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 2104     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 5140     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2534     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 5032     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.277 | 240  | 4317     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.507 | 264  | 4188     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 1869     | 0.392 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 2197     | 0.383 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 1348     | 0.372 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.090 | 152  | 2609     | 0.373 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 396      | 0.357 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.978 | 172  | 5829     | 0.398 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.122 | 212  | 4801     | 0.363 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.726 | 244  | 3436     | 0.387 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 832      | 0.413 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.543  | 42   | 1027     | 0.399 | ng    | 100      |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 2053     | 0.397 | ng    | 100      |
| 9) Naphthalene                | 10.551 | 128  | 5329     | 0.389 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.850 | 225  | 1347     | 0.403 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.166 | 142  | 3264     | 0.380 | ng    | 100      |
| 16) Acenaphthylene            | 14.067 | 152  | 4334     | 0.382 | ng    | 100      |
| 17) Acenaphthene              | 14.409 | 154  | 2969     | 0.384 | ng    | 100      |
| 18) Fluorene                  | 15.392 | 166  | 3861     | 0.382 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.467 | 198  | 231      | 0.433 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 16.292 | 248  | 1177     | 0.372 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.404 | 284  | 1790     | 0.399 | ng    | 100      |
| 23) Atrazine                  | 16.553 | 200  | 654      | 0.366 | ng    | 100      |
| 24) Pentachlorophenol         | 16.739 | 266  | 571      | 0.363 | ng    | 100      |
| 25) Phenanthrene              | 17.124 | 178  | 5887     | 0.385 | ng    | 100      |
| 26) Anthracene                | 17.223 | 178  | 5009     | 0.370 | ng    | 100      |
| 28) Fluoranthene              | 19.150 | 202  | 6535     | 0.372 | ng    | 100      |
| 30) Pyrene                    | 19.512 | 202  | 6320     | 0.392 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.259 | 228  | 5452     | 0.378 | ng    | 100      |
| 33) Chrysene                  | 21.304 | 228  | 6185     | 0.385 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 2252     | 0.378 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.767 | 276  | 6753     | 0.383 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 22.838 | 252  | 5604     | 0.353 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.882 | 252  | 6915     | 0.386 | ng    | 100      |
| 39) Benzo(a)pyrene            | 23.411 | 252  | 4812     | 0.366 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 25.788 | 278  | 5118     | 0.374 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 26.454 | 276  | 5284     | 0.366 | ng    | 100      |
| -----                         |        |      |          |       |       |          |

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

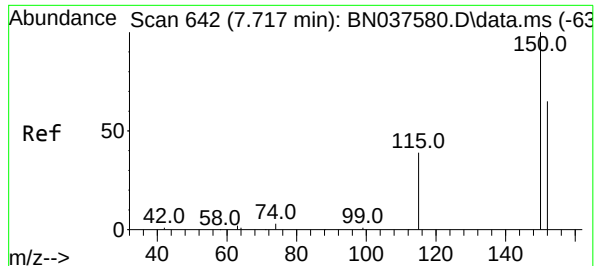
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Data File : BN037580.D  
Acq On : 12 Aug 2025 17:39  
Operator : RC/JU  
Sample : SSTDICC0.4  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.4

Quant Time: Aug 13 04:48:21 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 04:46:02 2025  
Response via : Initial Calibration



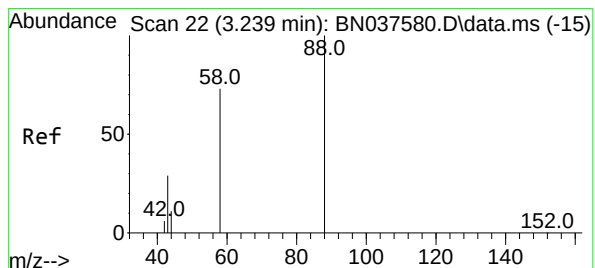
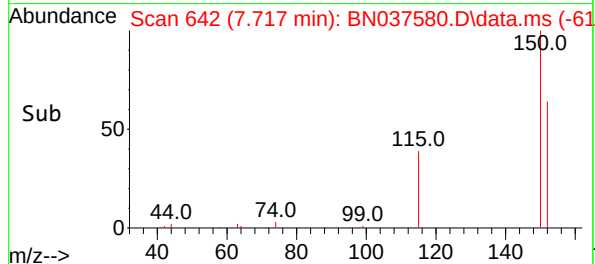
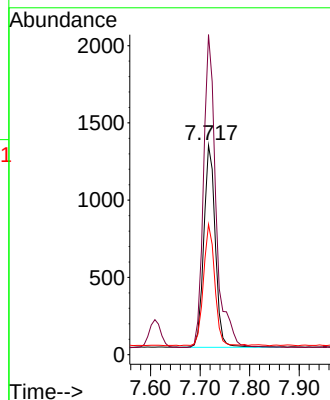
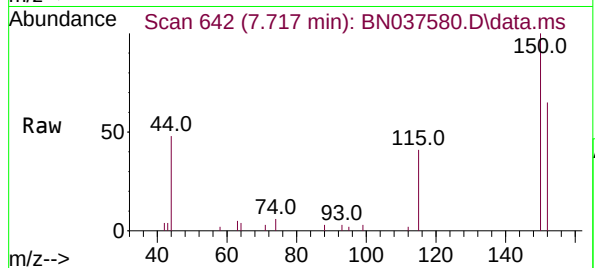




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

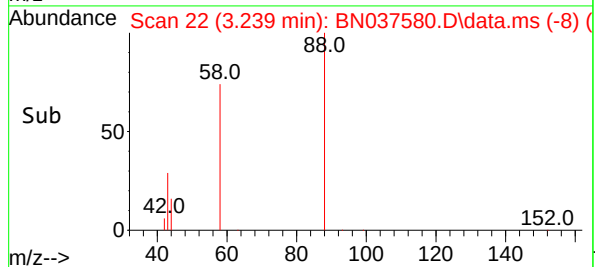
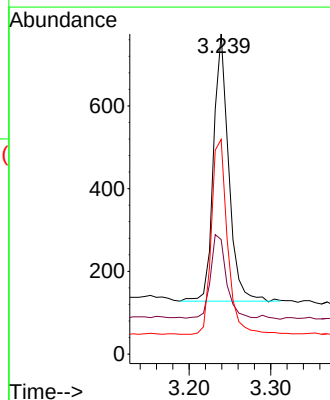
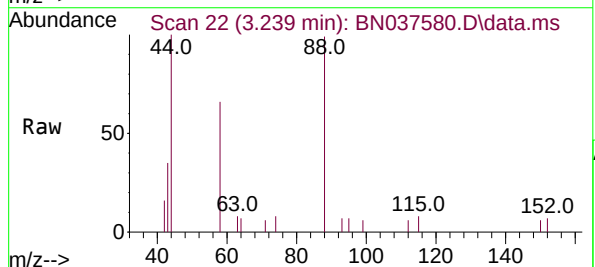
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BNA\_N  
ClientSampleId :  
SSTDICCC0.4

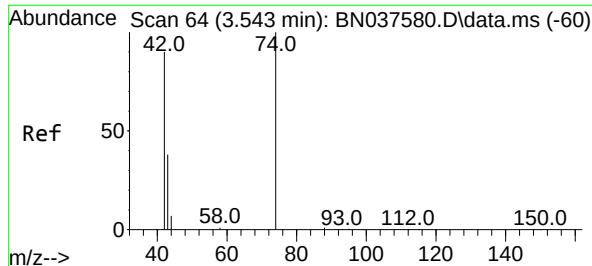
Tgt Ion:152 Resp: 2104  
Ion Ratio Lower Upper  
152 100  
150 152.8 122.2 183.4  
115 62.2 49.8 74.6



#2  
1,4-Dioxane  
Concen: 0.413 ng  
RT: 3.239 min Scan# 22  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

Tgt Ion: 88 Resp: 832  
Ion Ratio Lower Upper  
88 100  
43 33.2 25.8 38.6  
58 77.6 61.2 91.8

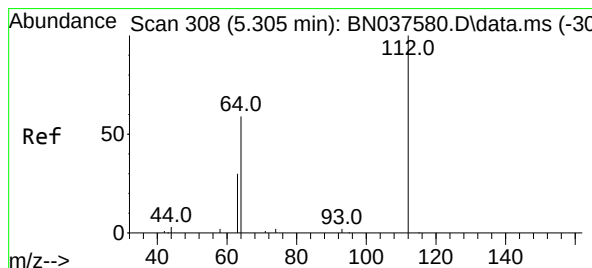
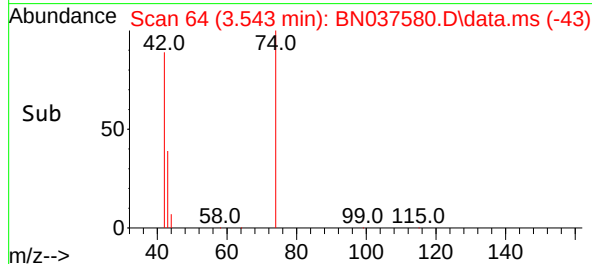
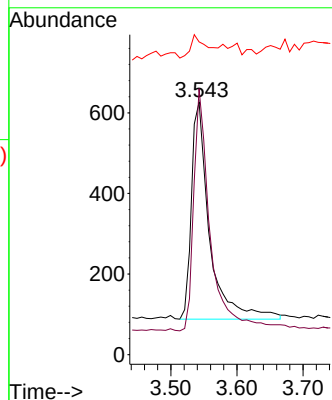
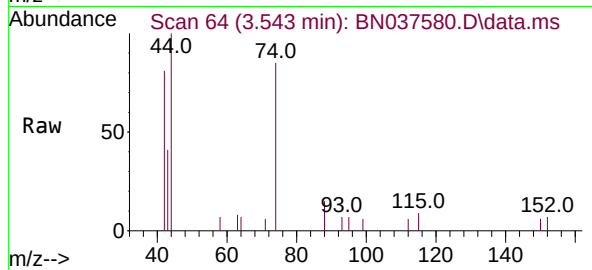




#3  
n-Nitrosodimethylamine  
Concen: 0.399 ng  
RT: 3.543 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

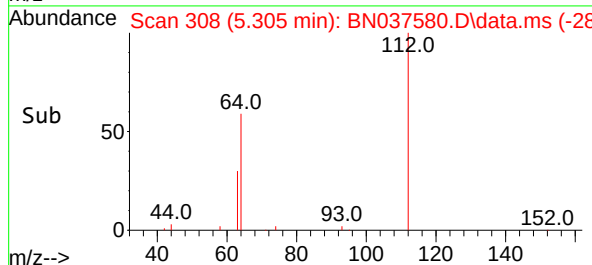
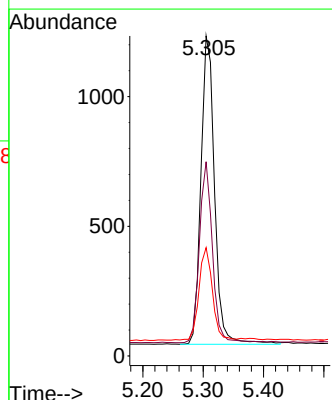
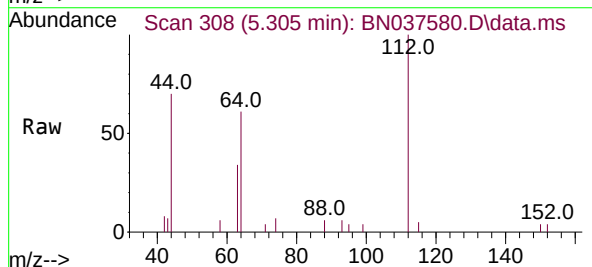
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BNA\_N  
ClientSampleId :  
SSTDICCC0.4

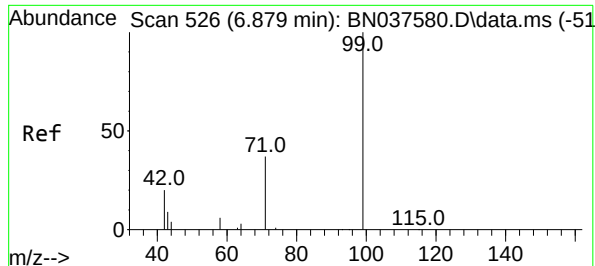
Tgt Ion: 42 Resp: 1027  
Ion Ratio Lower Upper  
42 100  
74 102.7 82.0 123.0  
44 9.8 7.9 11.9



#4  
2-Fluorophenol  
Concen: 0.392 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

Tgt Ion: 112 Resp: 1869  
Ion Ratio Lower Upper  
112 100  
64 56.1 44.9 67.3  
63 29.3 23.4 35.2





#5

Phenol-d6

Concen: 0.383 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

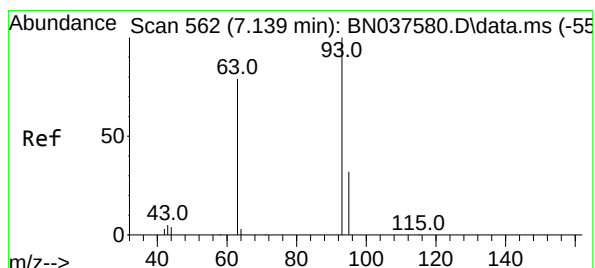
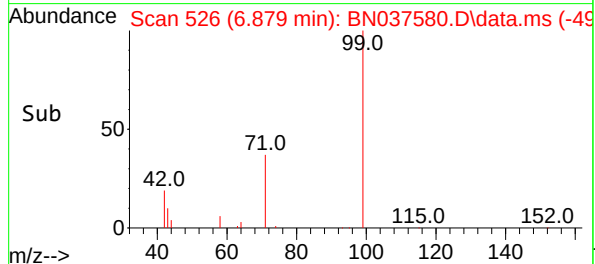
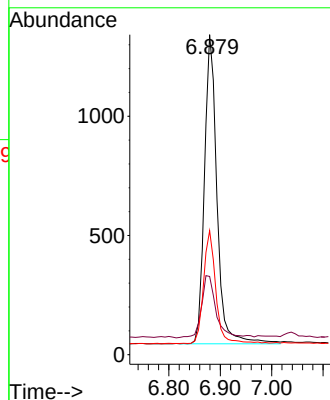
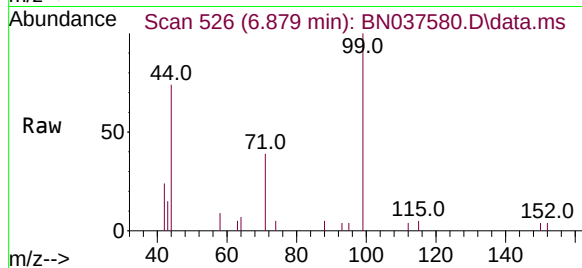
Tgt Ion: 99 Resp: 2197

Ion Ratio Lower Upper

99 100

42 23.1 18.5 27.7

71 35.7 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.397 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

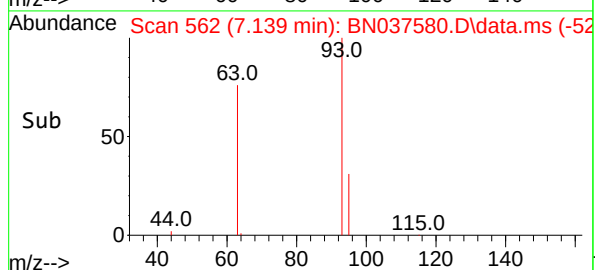
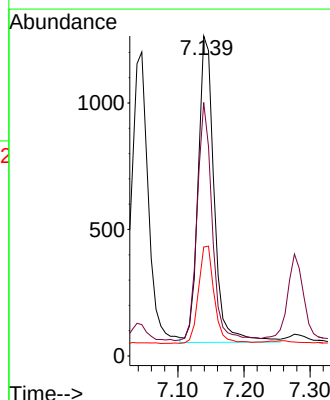
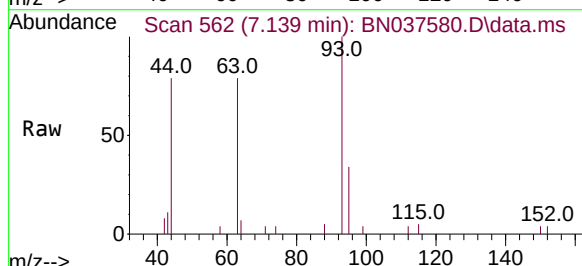
Tgt Ion: 93 Resp: 2053

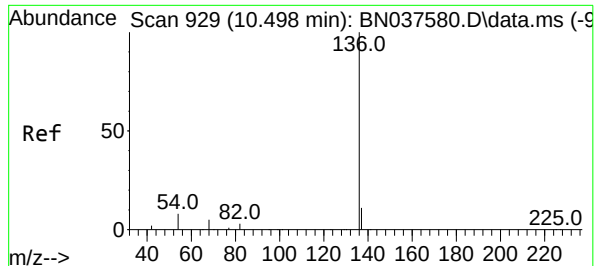
Ion Ratio Lower Upper

93 100

63 72.5 58.0 87.0

95 31.1 24.9 37.3

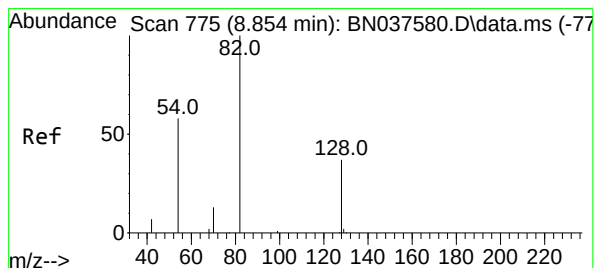
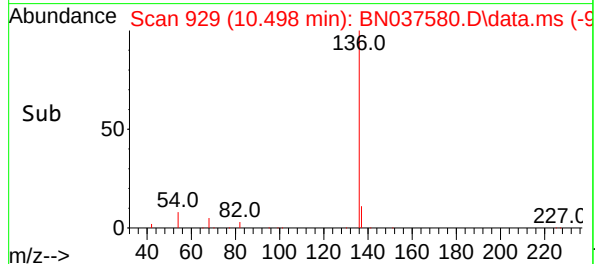
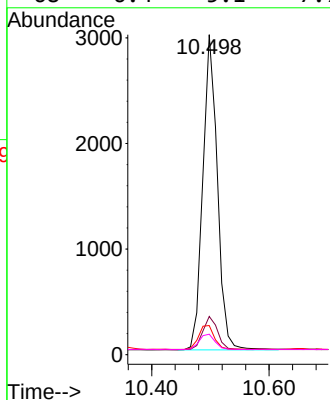
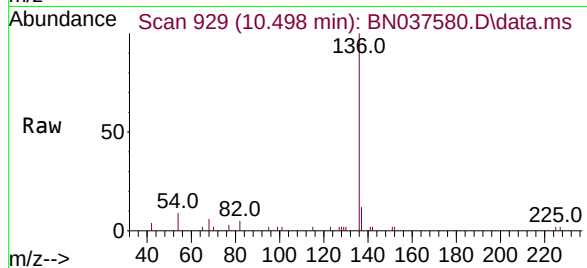




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

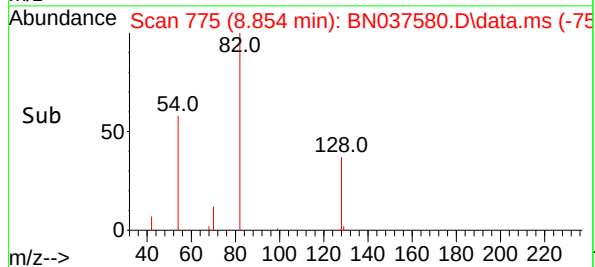
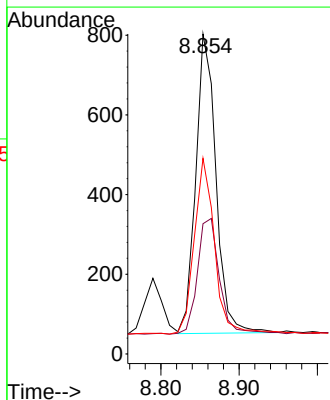
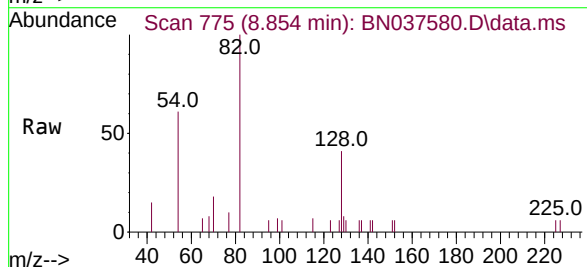
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ClientSampleId :  
SSTDICCC0.4

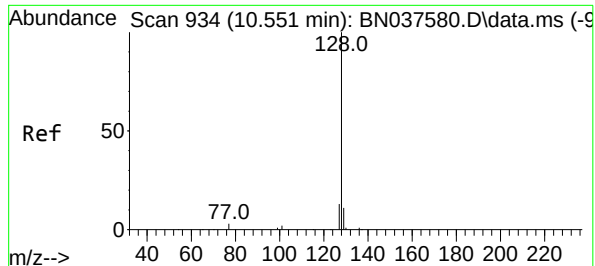
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5140  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.9  | 9.5   | 14.3  |
| 54       | 9.1   | 7.3   | 10.9  |
| 68       | 6.4   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.372 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1348  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.7  | 32.6  | 48.8  |
| 54       | 61.1  | 48.9  | 73.3  |





#9

Naphthalene

Concen: 0.389 ng

RT: 10.551 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

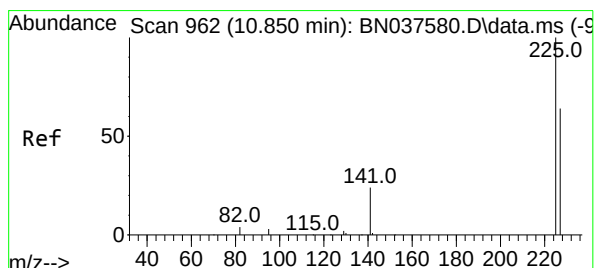
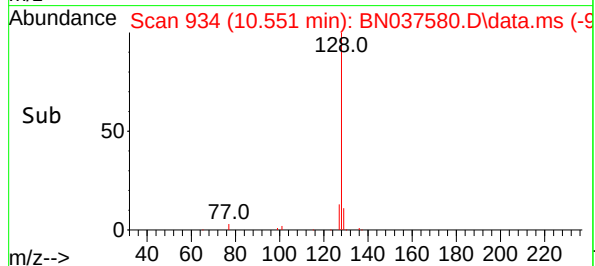
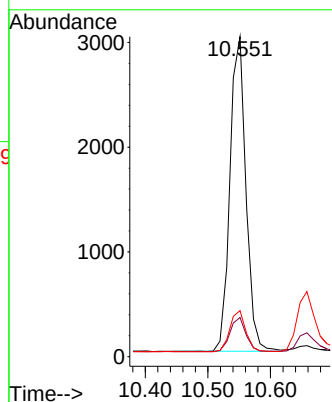
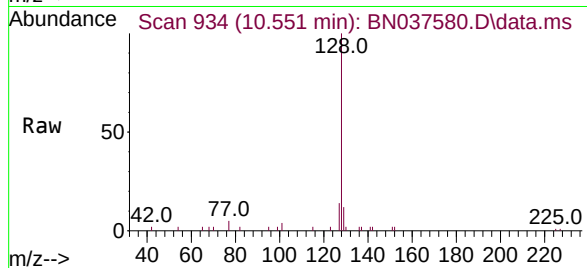
Tgt Ion:128 Resp: 5329

Ion Ratio Lower Upper

128 100

129 12.2 9.8 14.6

127 14.4 11.5 17.3



#10

Hexachlorobutadiene

Concen: 0.403 ng

RT: 10.850 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

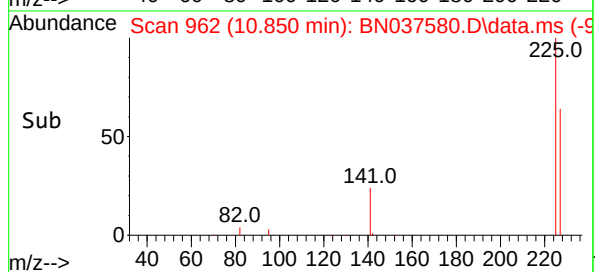
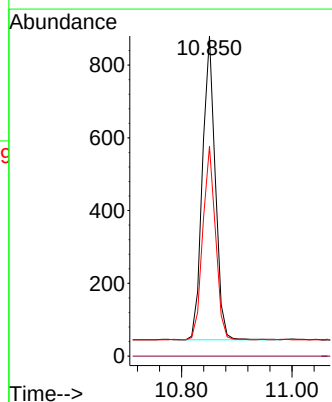
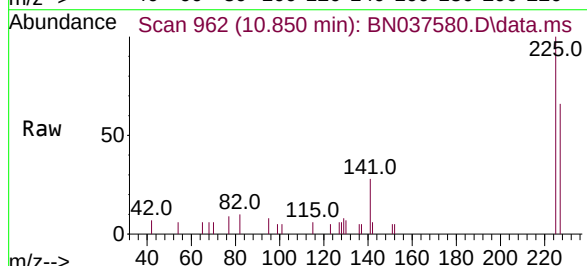
Tgt Ion:225 Resp: 1347

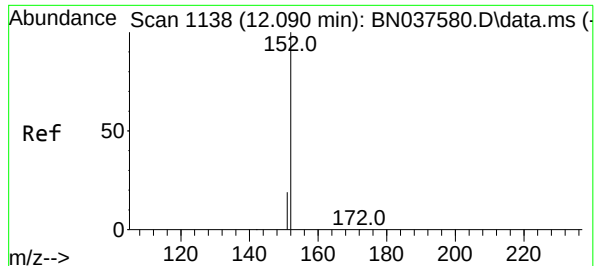
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.5 50.8 76.2

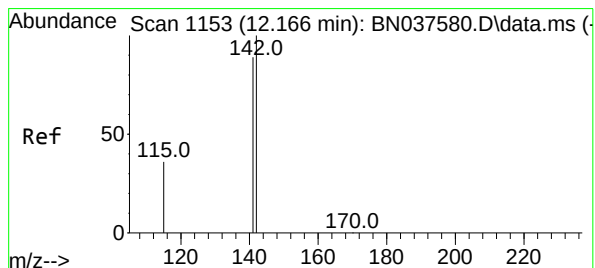
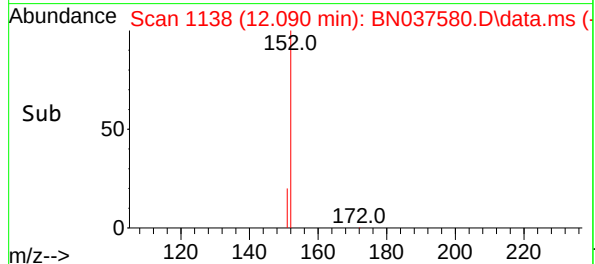
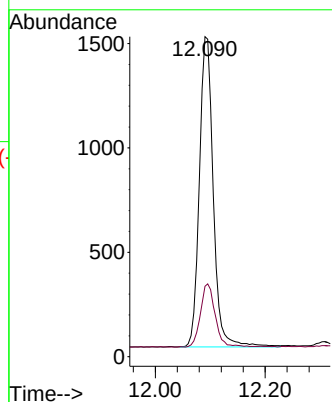
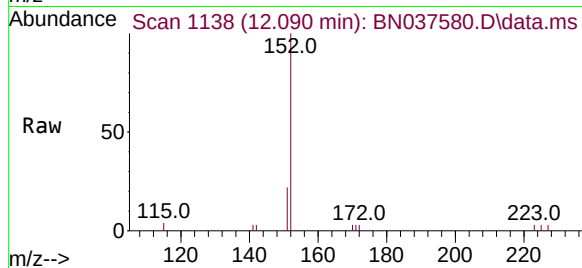




#11  
2-Methylnaphthalene-d10  
Concen: 0.373 ng  
RT: 12.090 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

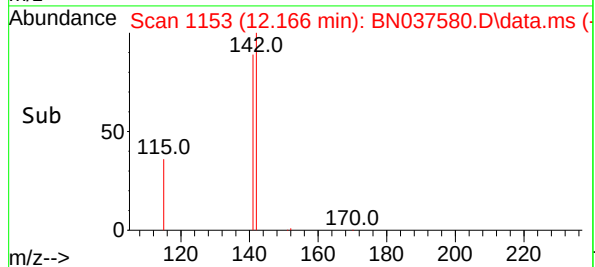
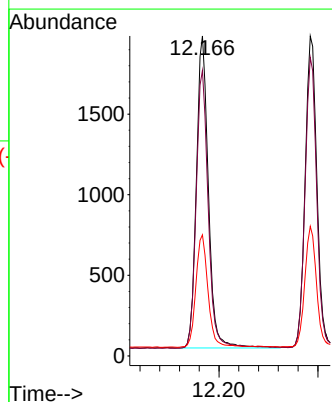
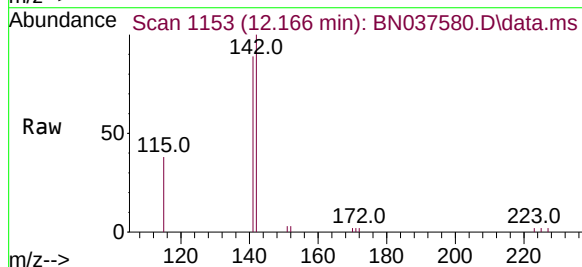
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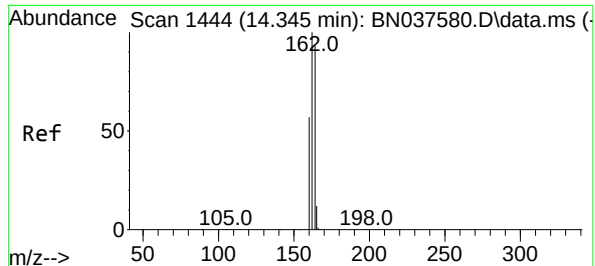
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Ion Ratio Lower Upper  
152 100  
151 21.6 17.3 25.9



#12  
2-Methylnaphthalene  
Concen: 0.380 ng  
RT: 12.166 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

Tgt Ion:142 Resp: 3264  
Ion Ratio Lower Upper  
142 100  
141 89.2 71.4 107.0  
115 37.8 30.2 45.4

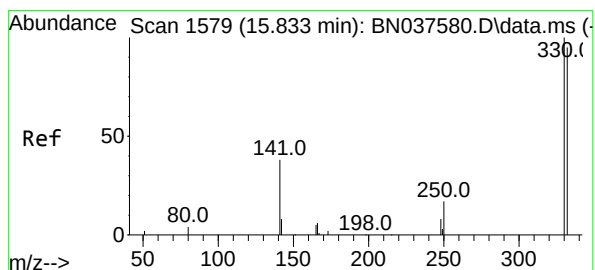
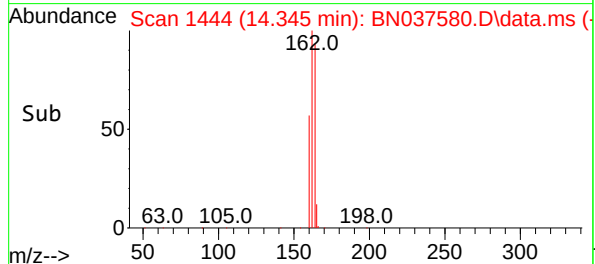
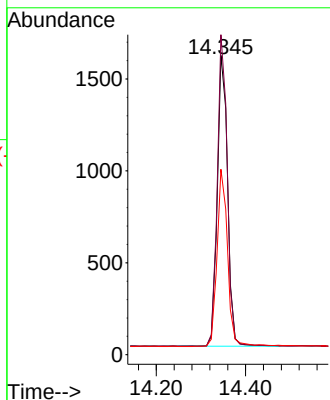
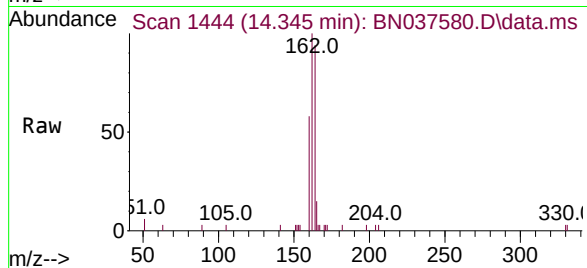




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

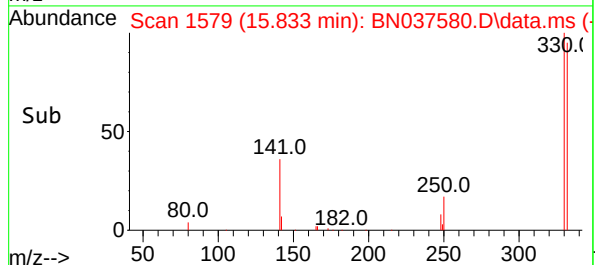
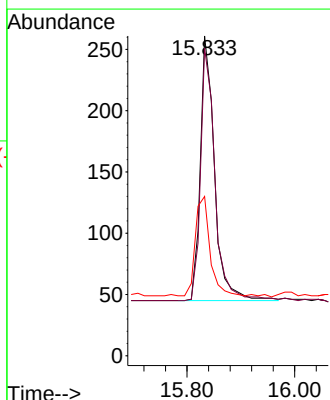
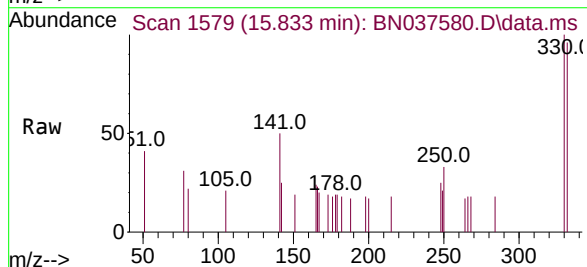
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

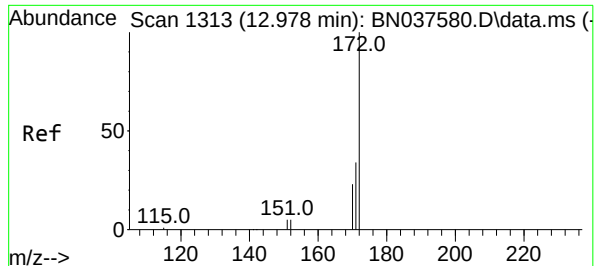
Tgt Ion:164 Resp: 2534  
Ion Ratio Lower Upper  
164 100  
162 106.9 85.5 128.3  
160 61.9 49.5 74.3



#14  
2,4,6-Tribromophenol  
Concen: 0.357 ng  
RT: 15.833 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

Tgt Ion:330 Resp: 396  
Ion Ratio Lower Upper  
330 100  
332 96.7 77.4 116.0  
141 38.6 30.9 46.3

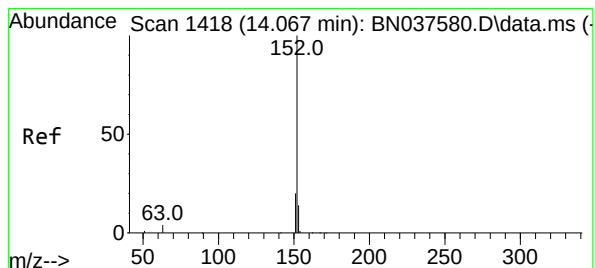
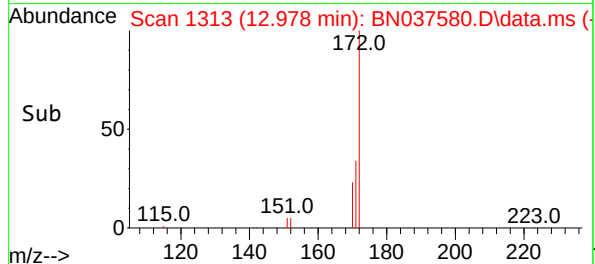
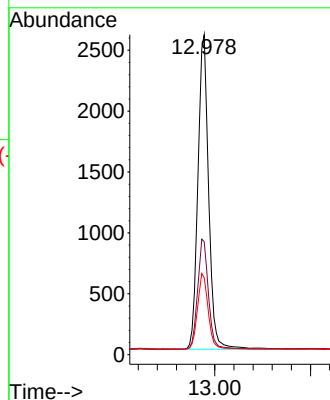
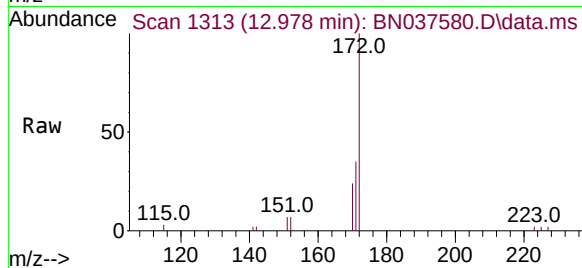




#15  
2-Fluorobiphenyl  
Concen: 0.398 ng  
RT: 12.978 min Scan# 1313  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

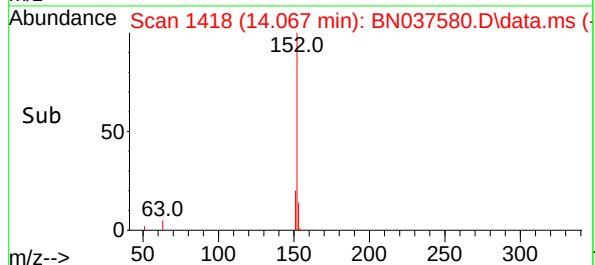
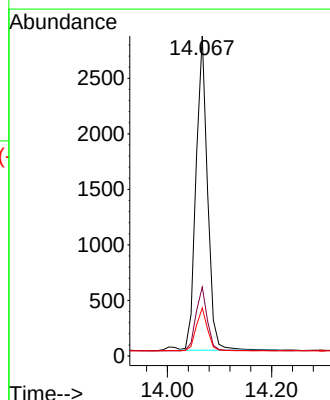
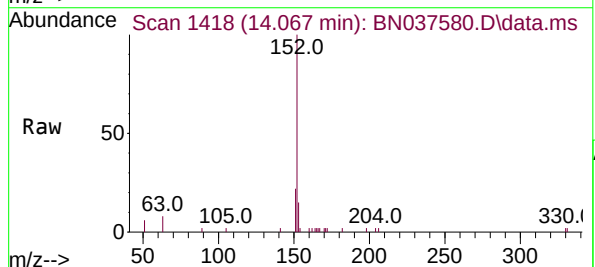
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.3  | 28.2  | 42.4  |
| 170     | 24.0  | 19.2  | 28.8  |

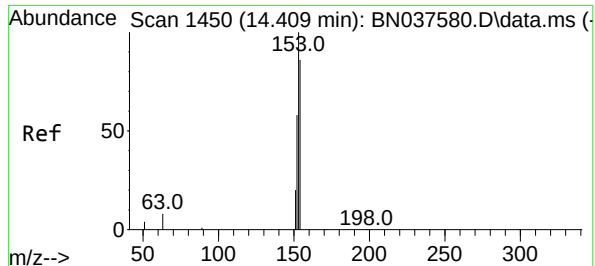


#16  
Acenaphthylene  
Concen: 0.382 ng  
RT: 14.067 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.1  | 16.1  | 24.1  |
| 153     | 13.4  | 10.7  | 16.1  |



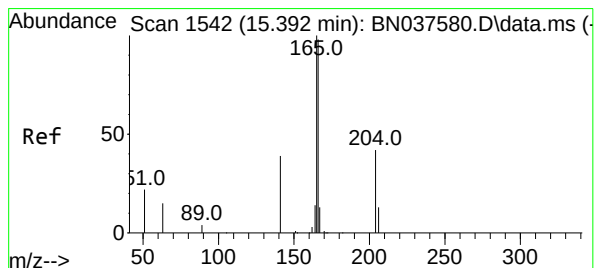
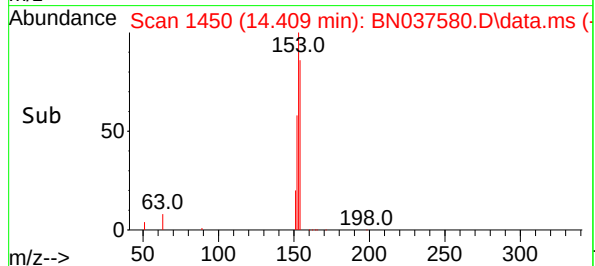
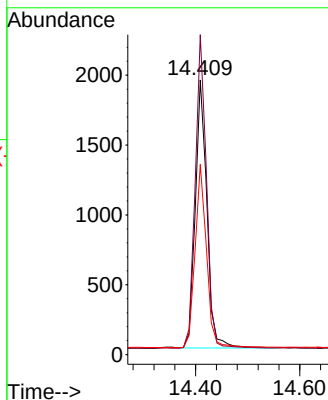
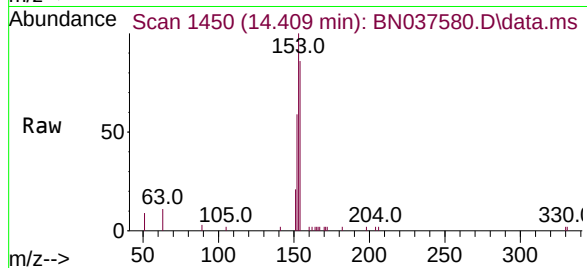




#17  
Acenaphthene  
Concen: 0.384 ng  
RT: 14.409 min Scan# 1450  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

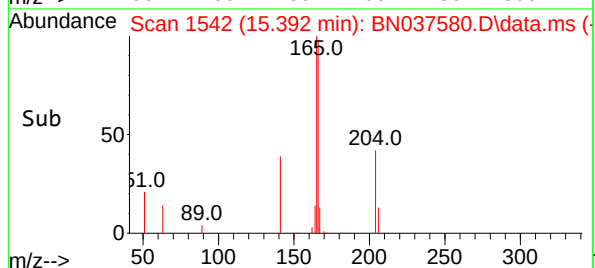
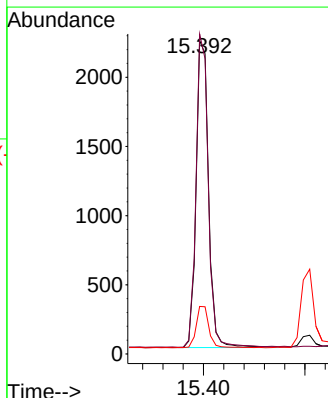
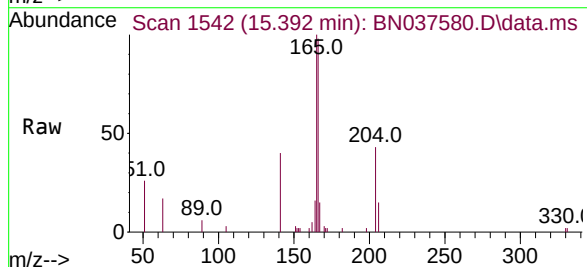
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

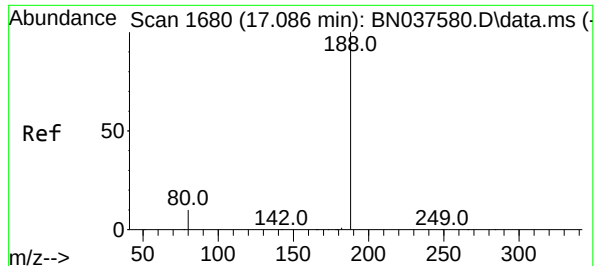
| Tgt Ion | 154   | Resp  | 2969  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 154     | 100   |       |       |
| 153     | 113.2 | 90.6  | 135.8 |
| 152     | 68.6  | 54.9  | 82.3  |



#18  
Fluorene  
Concen: 0.382 ng  
RT: 15.392 min Scan# 1542  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

| Tgt Ion | 166   | Resp  | 3861  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 166     | 100   |       |       |
| 165     | 98.6  | 78.9  | 118.3 |
| 167     | 13.4  | 10.7  | 16.1  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

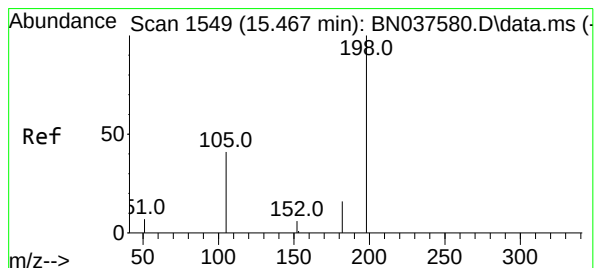
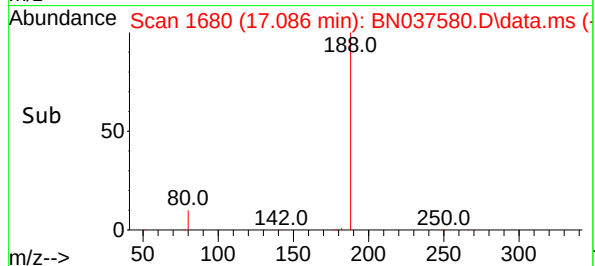
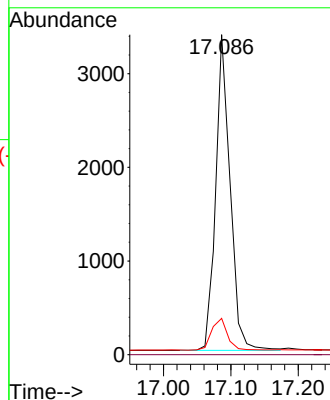
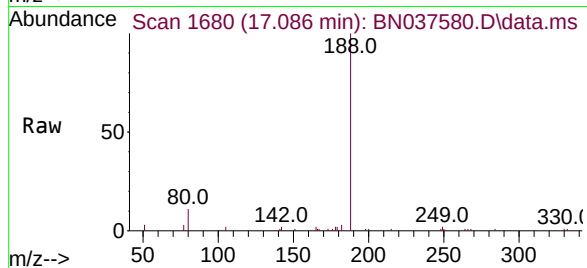
Tgt Ion:188 Resp: 5032

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.4 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.433 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

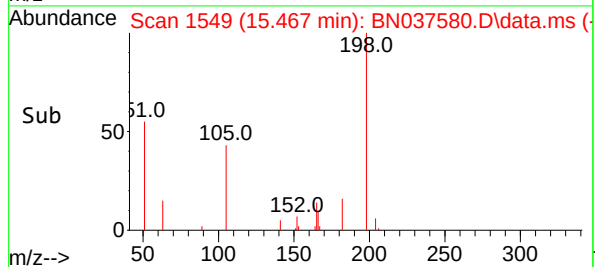
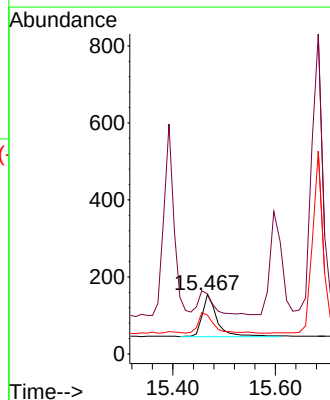
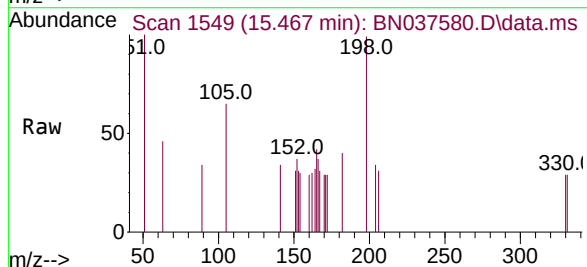
Tgt Ion:198 Resp: 231

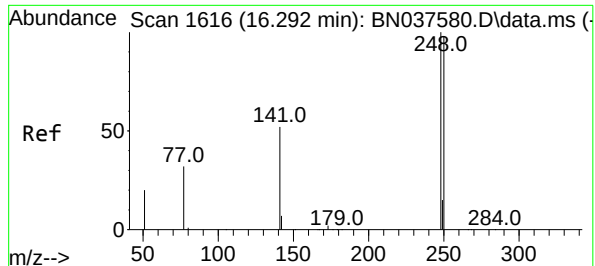
Ion Ratio Lower Upper

198 100

51 101.3 81.0 121.6

105 65.6 52.5 78.7

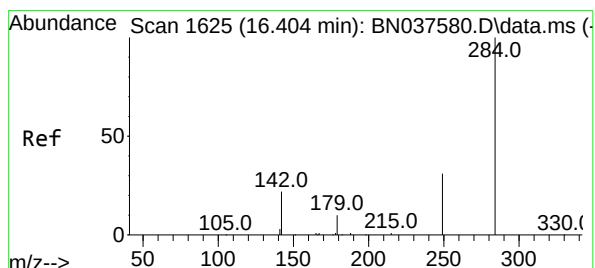
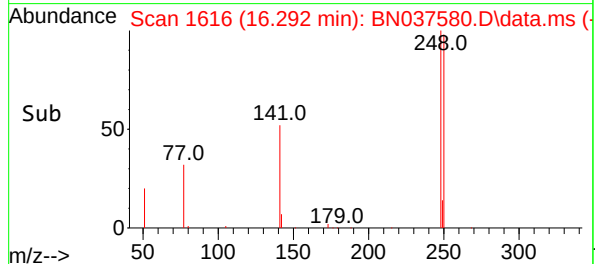
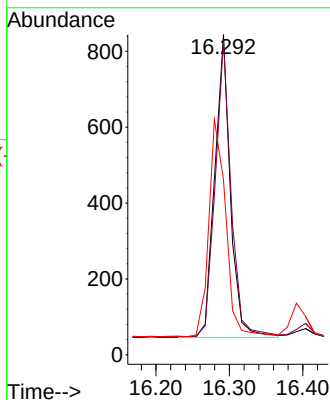
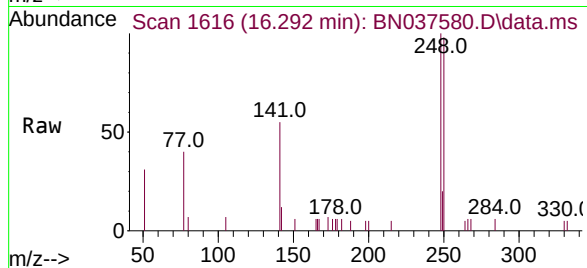




#21  
4-Bromophenyl-phenylether  
Concen: 0.372 ng  
RT: 16.292 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

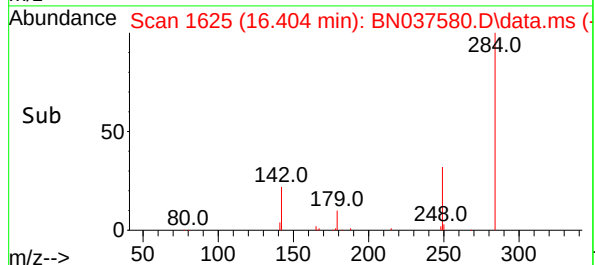
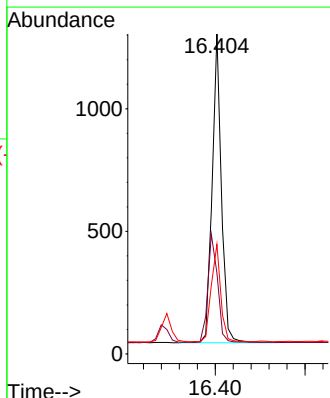
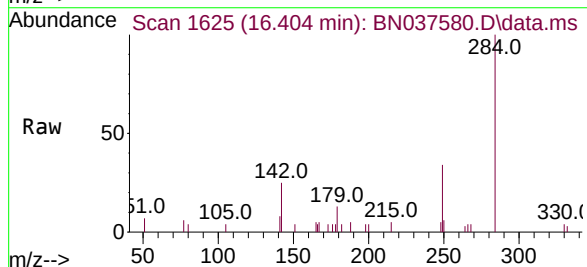
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

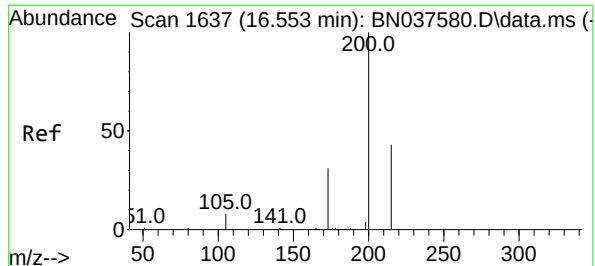
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 98.3  | 78.6  | 118.0 |
| 141     | 54.6  | 43.7  | 65.5  |



#22  
Hexachlorobenzene  
Concen: 0.399 ng  
RT: 16.404 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 36.9  | 29.8  | 44.6  |
| 249     | 32.5  | 26.0  | 39.0  |

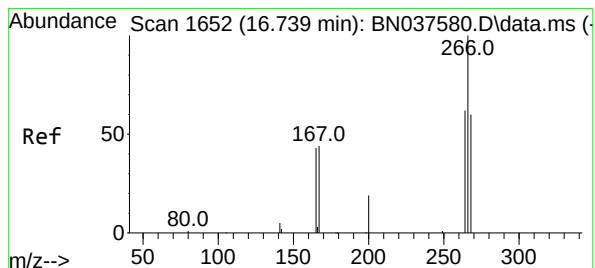
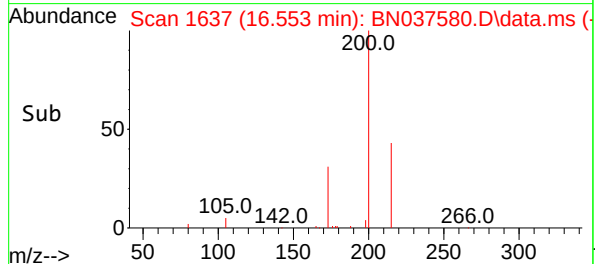
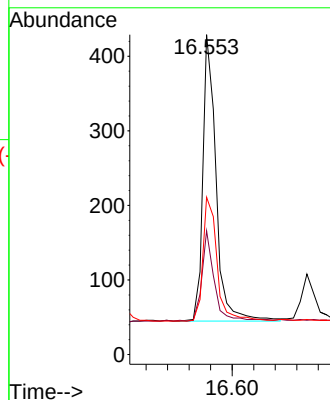
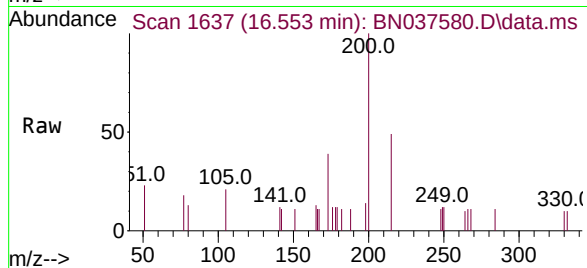




#23  
Atrazine  
Concen: 0.366 ng  
RT: 16.553 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

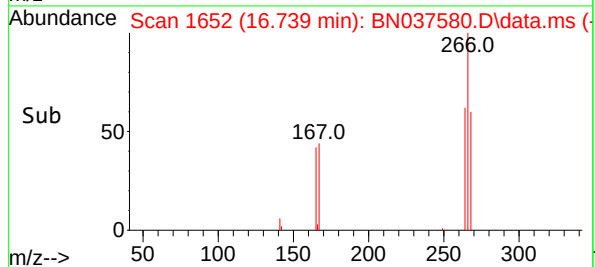
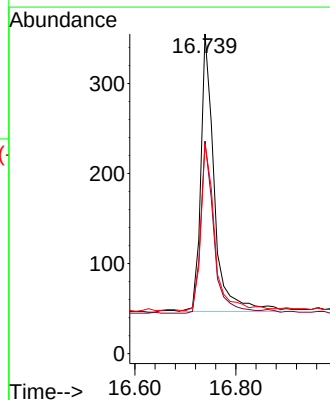
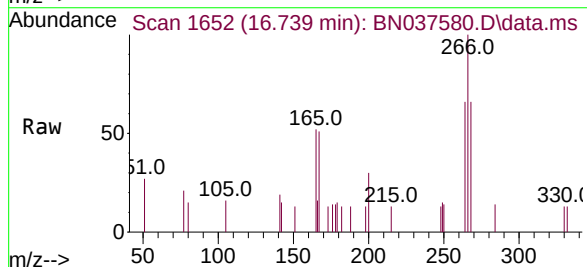
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

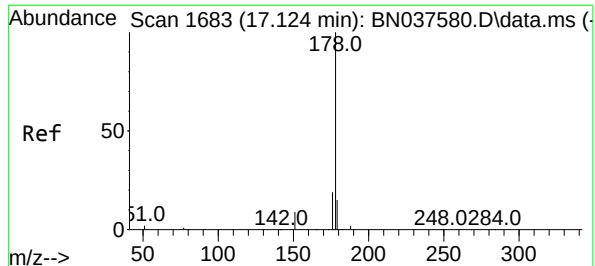
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 38.7  | 31.0  | 46.4  |
| 215     | 49.2  | 39.4  | 59.0  |



#24  
Pentachlorophenol  
Concen: 0.363 ng  
RT: 16.739 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 62.0  | 49.6  | 74.4  |
| 268     | 61.5  | 49.2  | 73.8  |

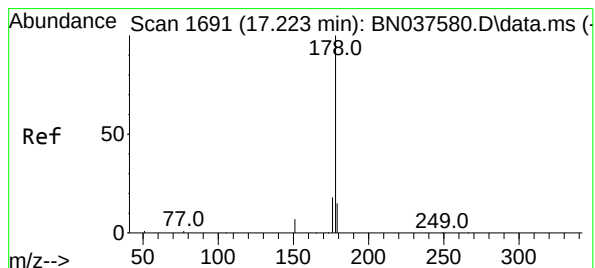
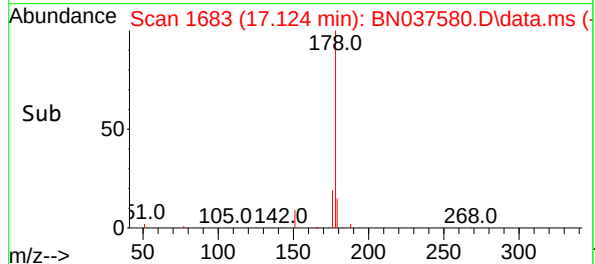
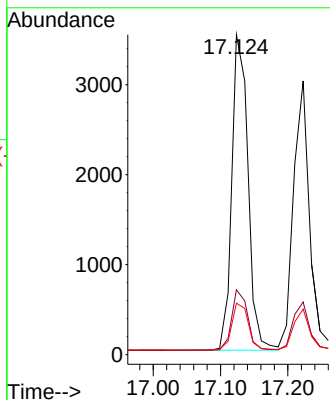
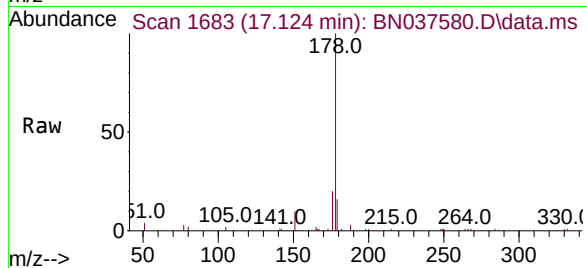




#25  
Phenanthrene  
Concen: 0.385 ng  
RT: 17.124 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

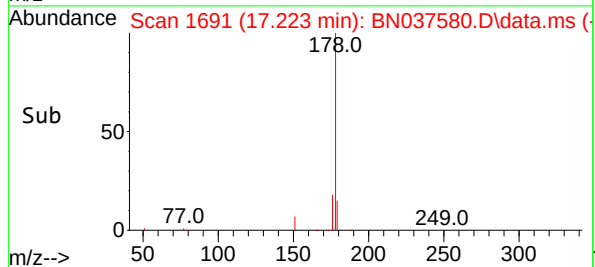
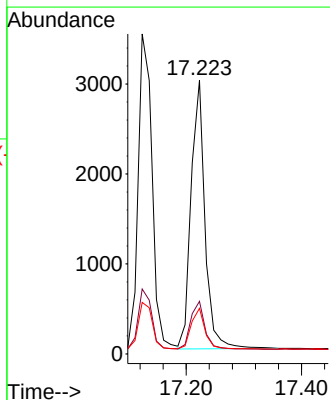
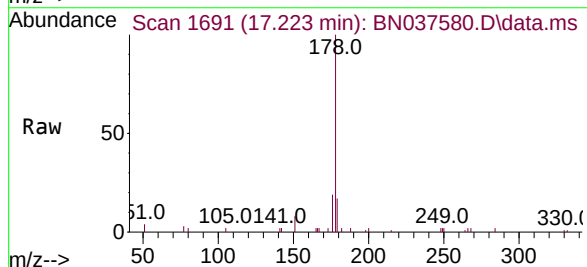
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

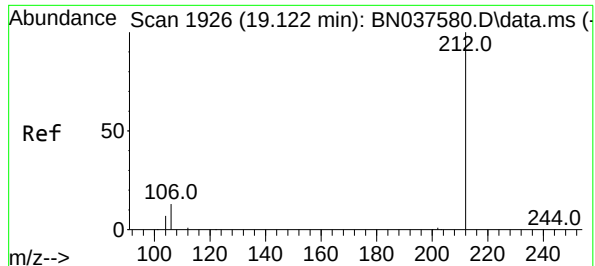
Tgt Ion:178 Resp: 5887  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.370 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

Tgt Ion:178 Resp: 5009  
Ion Ratio Lower Upper  
178 100  
176 18.4 14.7 22.1  
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.363 ng

RT: 19.122 min Scan# 1926

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

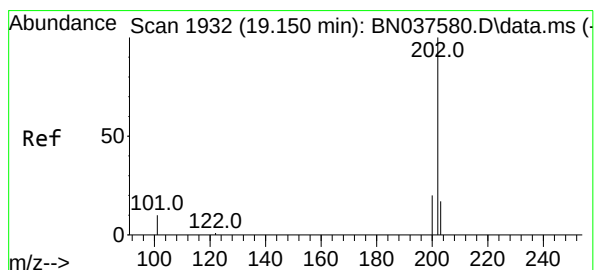
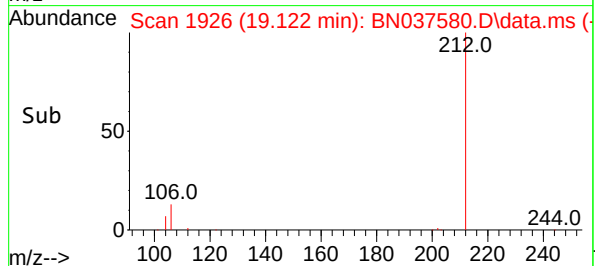
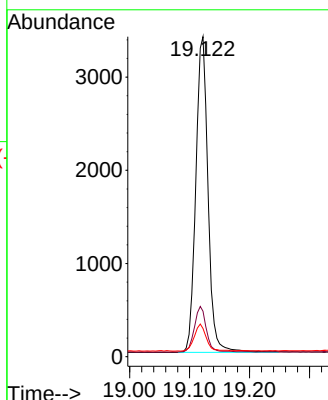
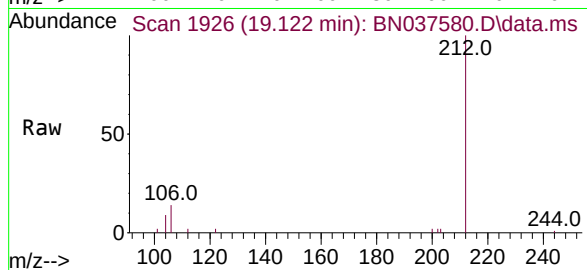
Tgt Ion:212 Resp: 4801

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 8.2 6.6 9.8



#28

Fluoranthene

Concen: 0.372 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

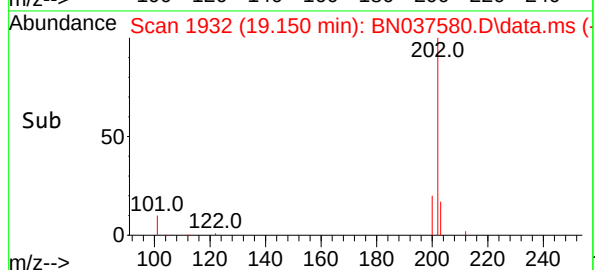
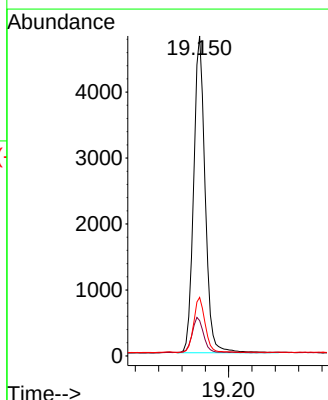
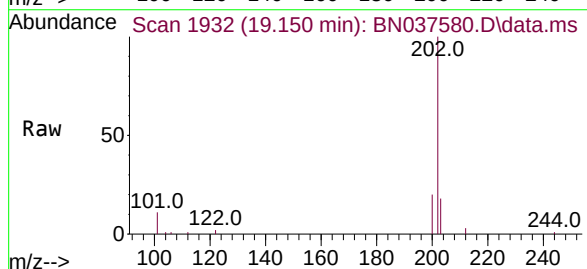
Tgt Ion:202 Resp: 6535

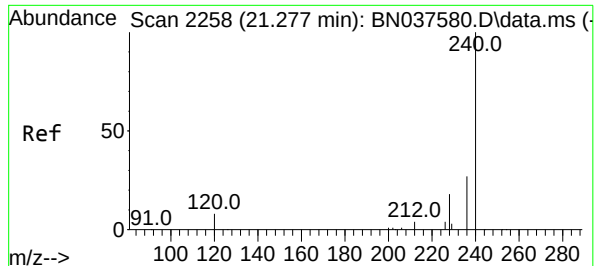
Ion Ratio Lower Upper

202 100

101 11.3 9.0 13.6

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.277 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

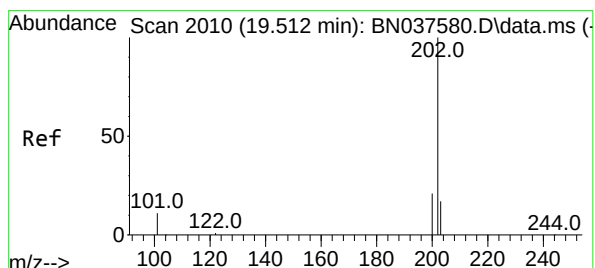
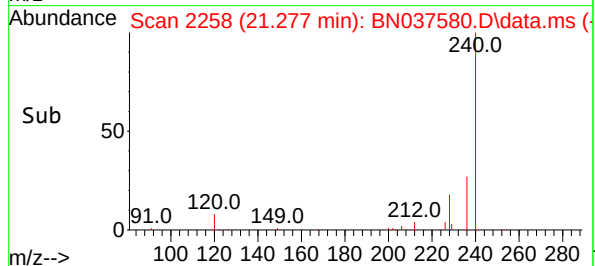
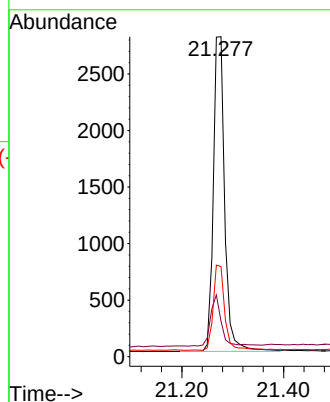
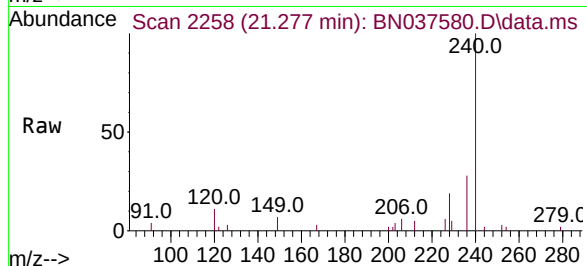
Tgt Ion:240 Resp: 4317

Ion Ratio Lower Upper

240 100

120 11.1 8.9 13.3

236 28.2 22.6 33.8



#30

Pyrene

Concen: 0.392 ng

RT: 19.512 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

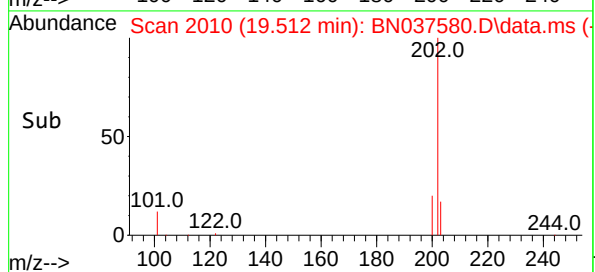
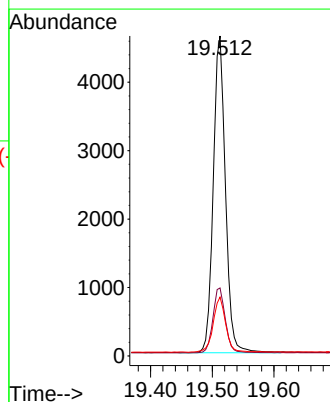
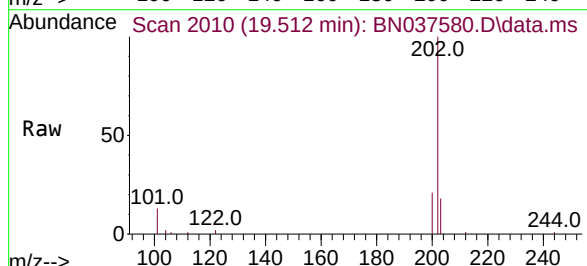
Tgt Ion:202 Resp: 6320

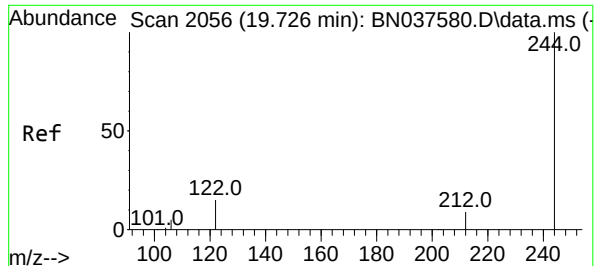
Ion Ratio Lower Upper

202 100

200 20.8 16.6 25.0

203 17.9 14.3 21.5

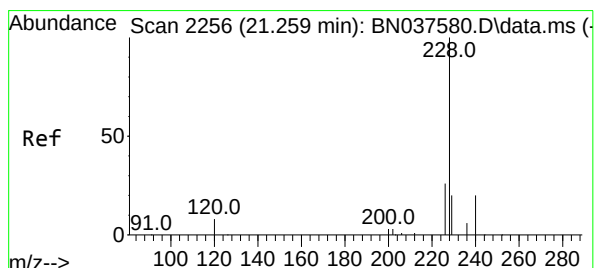
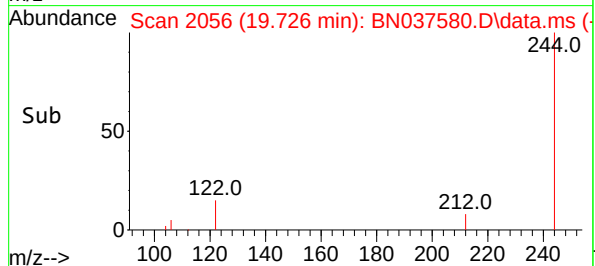
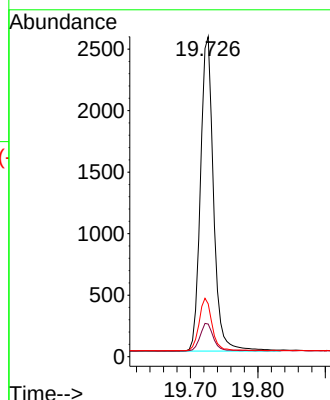
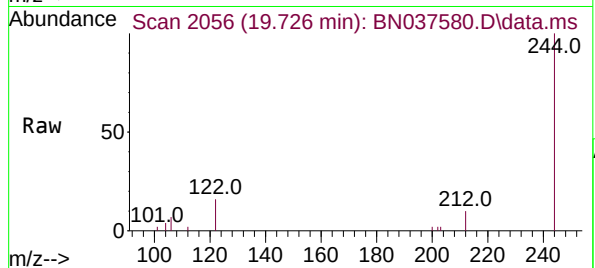




#31  
Terphenyl-d14  
Concen: 0.387 ng  
RT: 19.726 min Scan# 2056  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

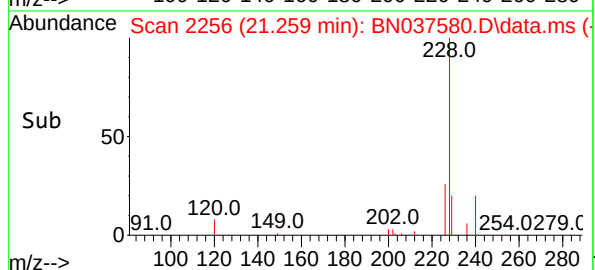
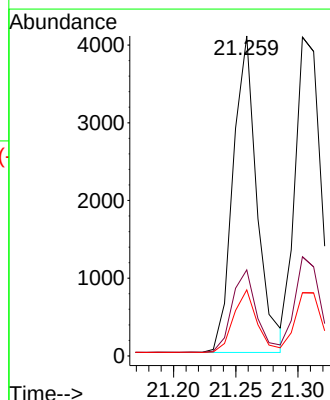
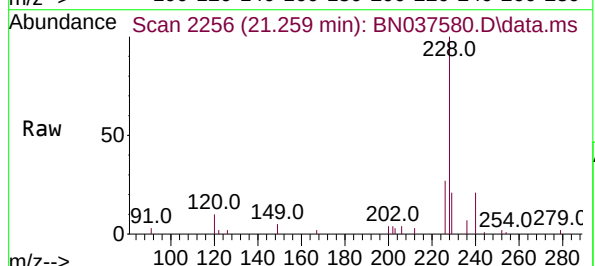
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.2  | 8.2   | 12.2  |
| 122     | 16.5  | 13.2  | 19.8  |

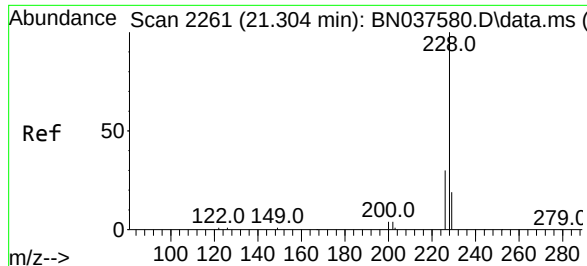


#32  
Benzo(a)anthracene  
Concen: 0.378 ng  
RT: 21.259 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: BN037580.D  
Acq: 12 Aug 2025 17:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.9  | 21.5  | 32.3  |
| 229     | 20.6  | 16.5  | 24.7  |







#33

Chrysene

Concen: 0.385 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

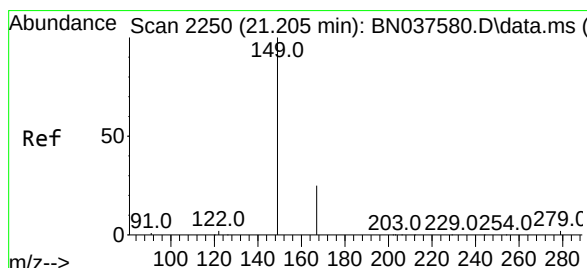
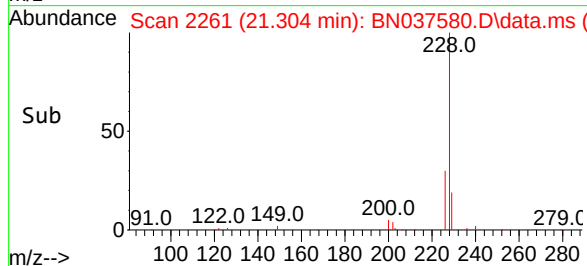
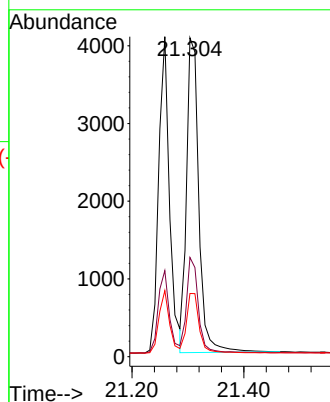
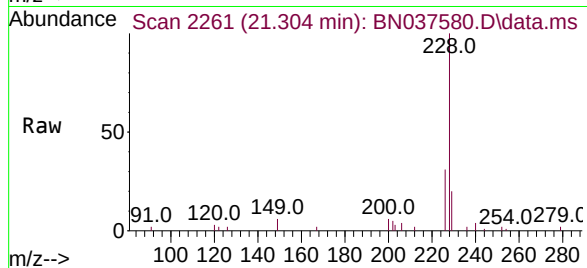
Tgt Ion:228 Resp: 6185

Ion Ratio Lower Upper

228 100

226 31.1 24.9 37.3

229 19.8 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.378 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

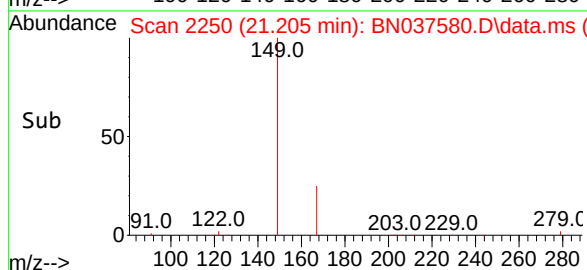
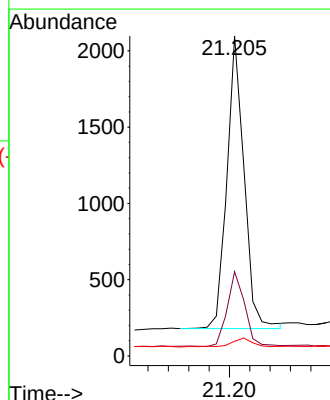
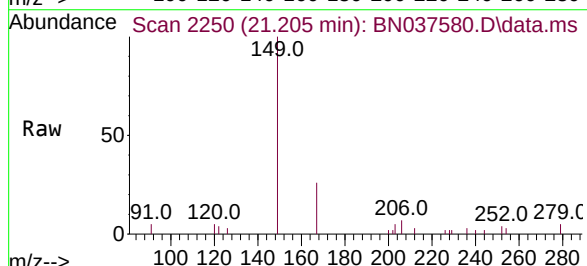
Tgt Ion:149 Resp: 2252

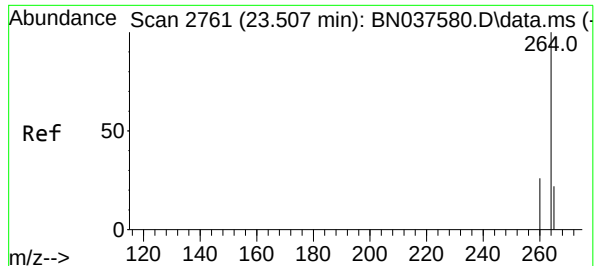
Ion Ratio Lower Upper

149 100

167 25.6 20.5 30.7

279 3.8 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.507 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

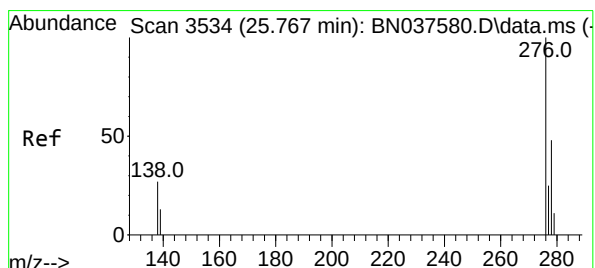
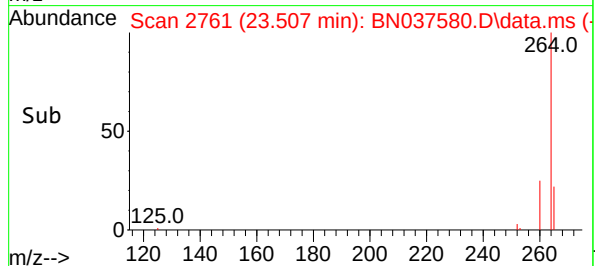
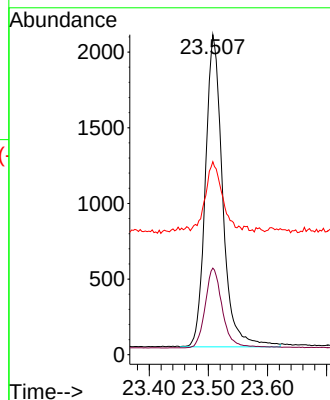
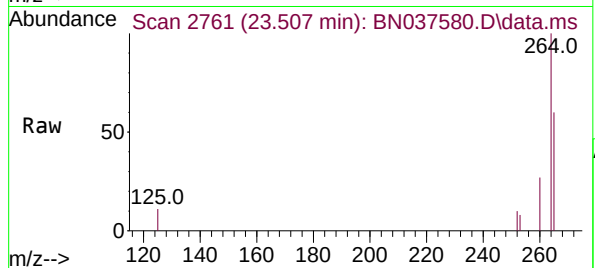
Tgt Ion:264 Resp: 4188

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 60.3 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.383 ng

RT: 25.767 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

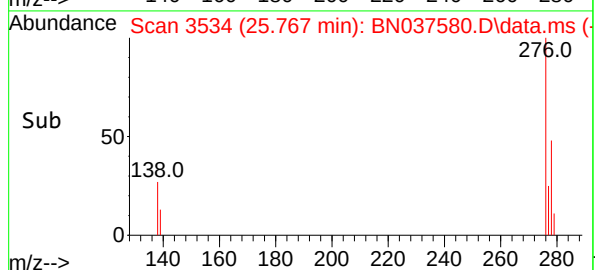
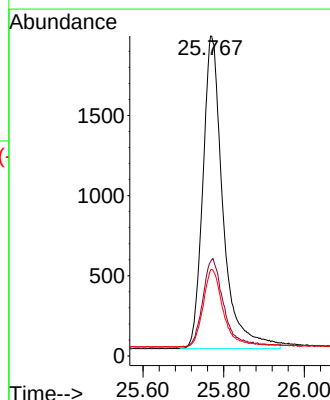
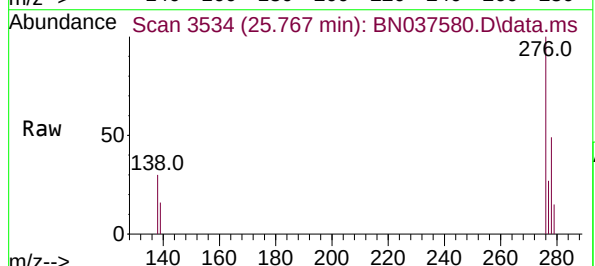
Tgt Ion:276 Resp: 6753

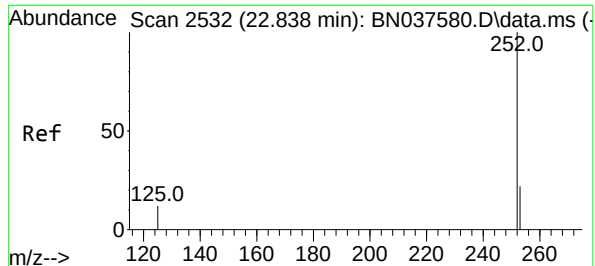
Ion Ratio Lower Upper

276 100

138 29.1 23.3 34.9

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.353 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

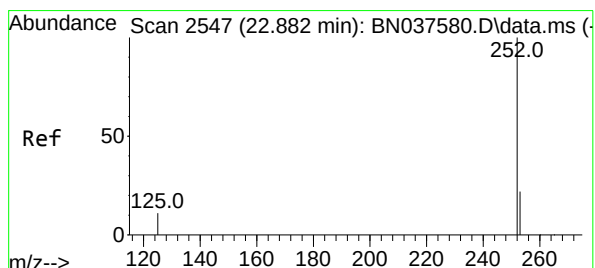
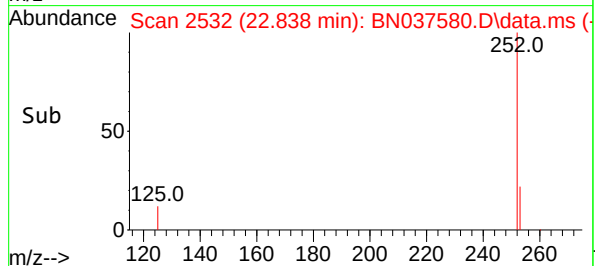
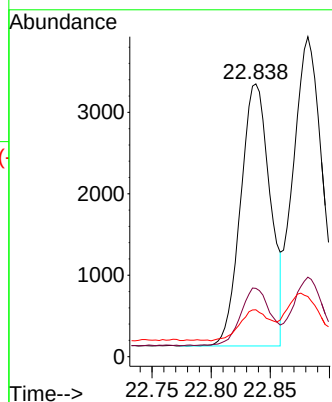
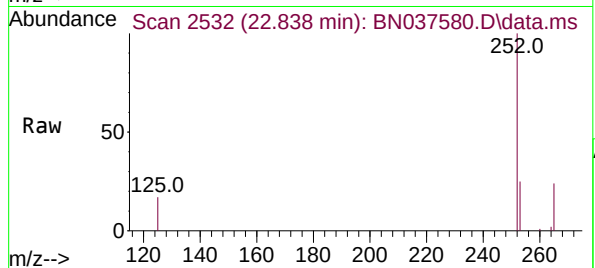
Tgt Ion:252 Resp: 5604

Ion Ratio Lower Upper

252 100

253 25.0 20.0 30.0

125 17.2 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.386 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

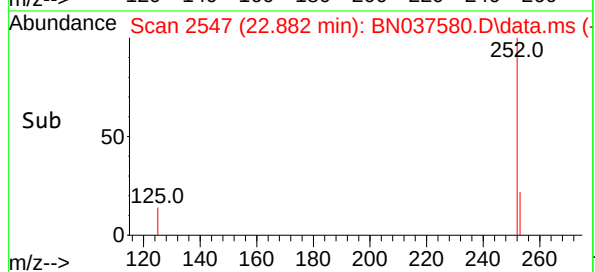
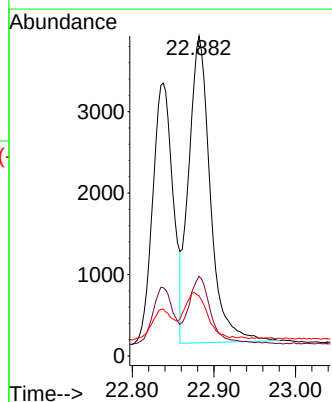
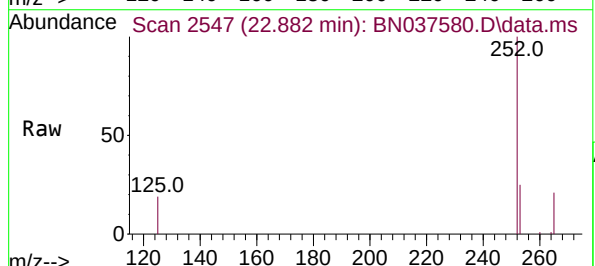
Tgt Ion:252 Resp: 6915

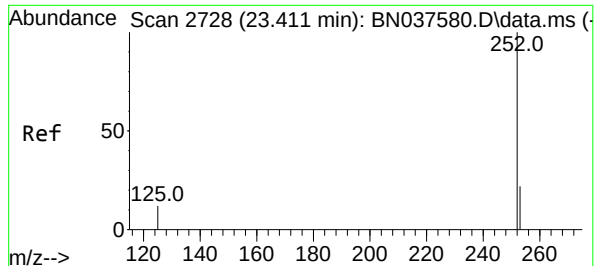
Ion Ratio Lower Upper

252 100

253 24.9 19.9 29.9

125 18.8 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.366 ng

RT: 23.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

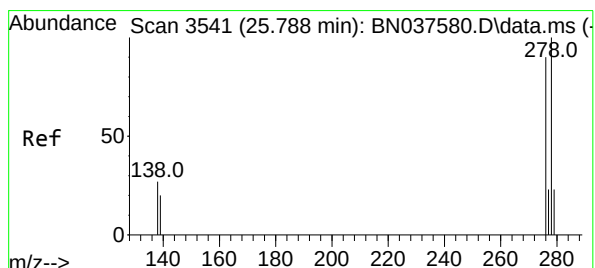
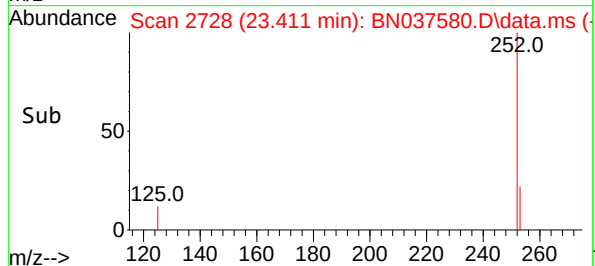
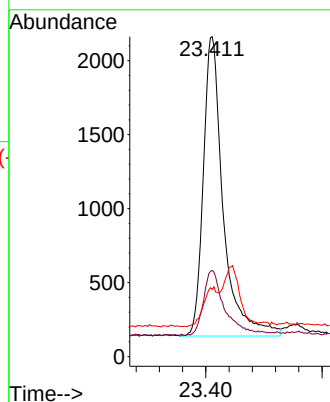
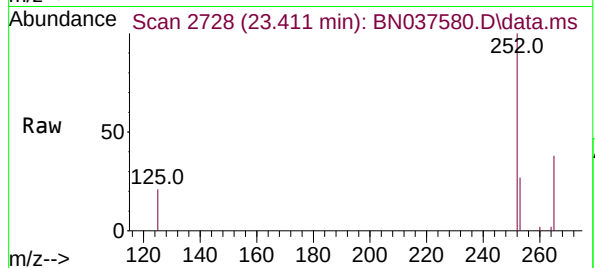
Tgt Ion:252 Resp: 4812

Ion Ratio Lower Upper

252 100

253 27.0 21.6 32.4

125 21.0 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.374 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.000 min

Lab File: BN037580.D

Acq: 12 Aug 2025 17:39

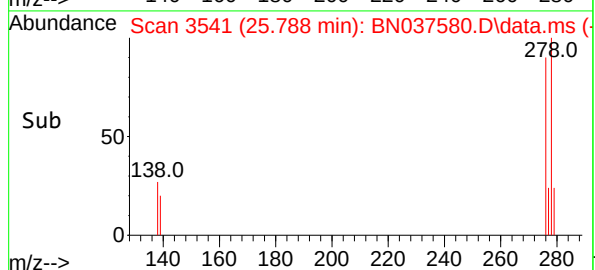
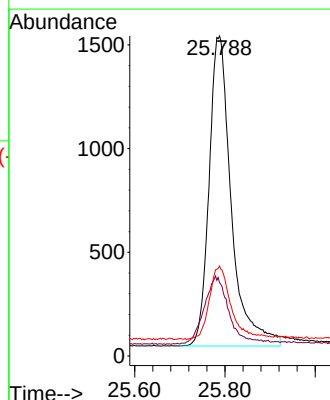
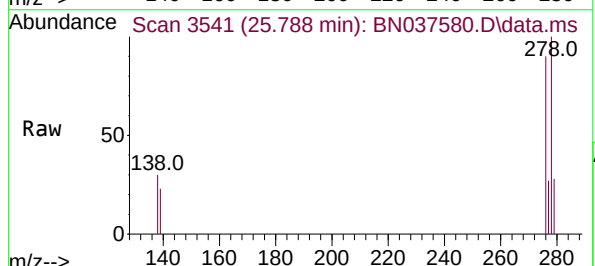
Tgt Ion:278 Resp: 5118

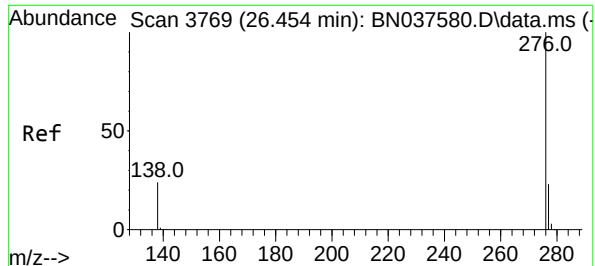
Ion Ratio Lower Upper

278 100

139 22.9 18.3 27.5

279 28.1 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.366 ng

RT: 26.454 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037580.D

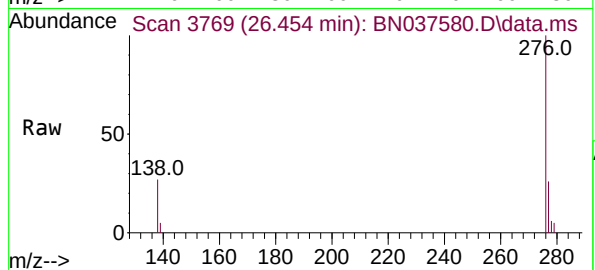
Acq: 12 Aug 2025 17:39

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



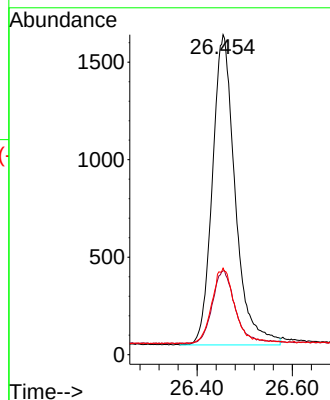
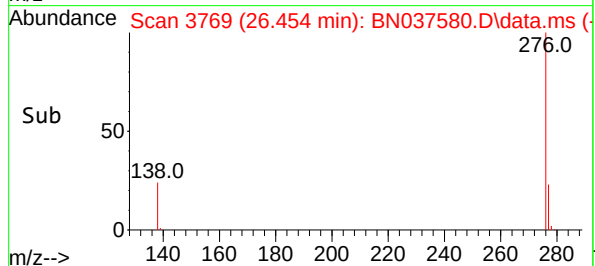
Tgt Ion:276 Resp: 5284

Ion Ratio Lower Upper

276 100

277 26.2 21.0 31.4

138 27.1 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
 Data File : BN037581.D  
 Acq On : 12 Aug 2025 18:16  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

Quant Time: Aug 13 04:48:43 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 04:46:02 2025  
 Response via : Initial Calibration

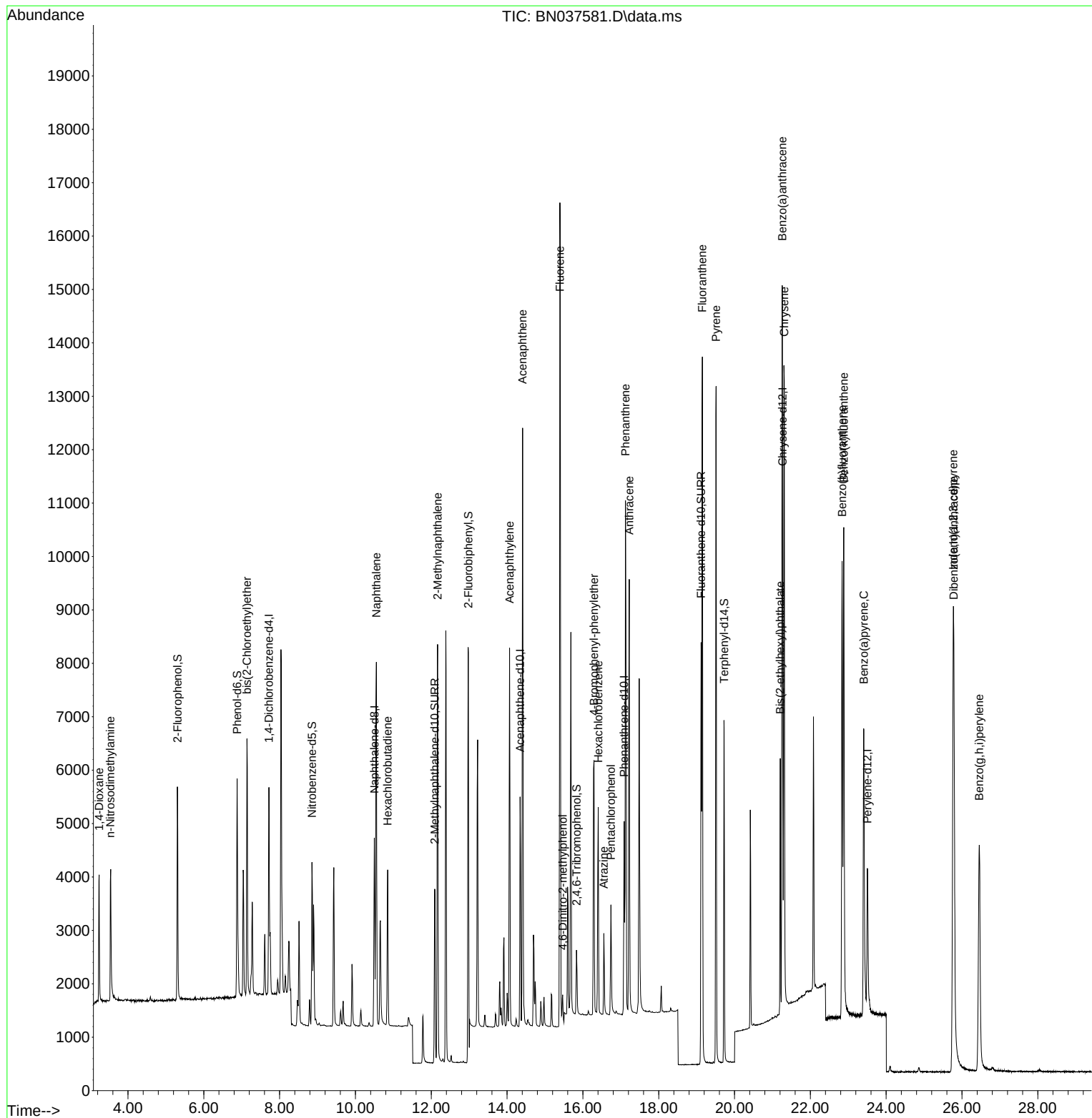
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 1885     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 4579     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2311     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 4680     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 4185     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.505 | 264  | 3775     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 3101     | 0.726 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 3707     | 0.721 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 2415     | 0.749 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.090 | 152  | 4517     | 0.726 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 739      | 0.731 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.978 | 172  | 10405    | 0.778 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.118 | 212  | 8750     | 0.711 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.726 | 244  | 6383     | 0.741 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 1386     | 0.769 | ng    | 96       |
| 3) n-Nitrosodimethylamine     | 3.535  | 42   | 1777     | 0.771 | ng    | # 96     |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 3530     | 0.762 | ng    | 98       |
| 9) Naphthalene                | 10.551 | 128  | 9265     | 0.760 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.850 | 225  | 2321     | 0.779 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.166 | 142  | 5758     | 0.753 | ng    | 98       |
| 16) Acenaphthylene            | 14.067 | 152  | 7638     | 0.737 | ng    | 99       |
| 17) Acenaphthene              | 14.409 | 154  | 5336     | 0.757 | ng    | 98       |
| 18) Fluorene                  | 15.392 | 166  | 7030     | 0.763 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.467 | 198  | 439      | 0.697 | ng    | # 75     |
| 21) 4-Bromophenyl-phenylether | 16.292 | 248  | 2217     | 0.754 | ng    | 95       |
| 22) Hexachlorobenzene         | 16.404 | 284  | 3105     | 0.745 | ng    | 99       |
| 23) Atrazine                  | 16.553 | 200  | 1251     | 0.752 | ng    | 95       |
| 24) Pentachlorophenol         | 16.739 | 266  | 1061     | 0.725 | ng    | 98       |
| 25) Phenanthrene              | 17.124 | 178  | 10654    | 0.749 | ng    | 100      |
| 26) Anthracene                | 17.223 | 178  | 9251     | 0.734 | ng    | 100      |
| 28) Fluoranthene              | 19.150 | 202  | 12088    | 0.740 | ng    | 100      |
| 30) Pyrene                    | 19.513 | 202  | 11747    | 0.751 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.259 | 228  | 10489    | 0.750 | ng    | 100      |
| 33) Chrysene                  | 21.313 | 228  | 11541    | 0.741 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 4046     | 0.701 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.770 | 276  | 11835    | 0.744 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.838 | 252  | 10811    | 0.756 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.882 | 252  | 12288    | 0.761 | ng    | # 94     |
| 39) Benzo(a)pyrene            | 23.408 | 252  | 8737     | 0.736 | ng    | # 93     |
| 40) Dibenzo(a,h)anthracene    | 25.785 | 278  | 9175     | 0.743 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 26.454 | 276  | 9524     | 0.732 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

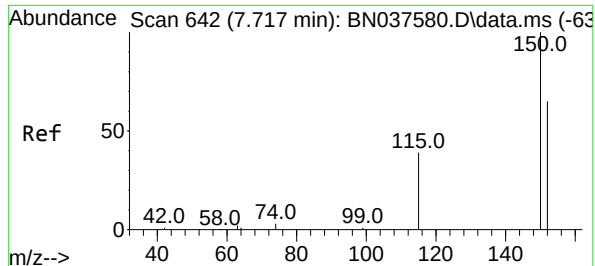
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
Data File : BN037581.D  
Acq On : 12 Aug 2025 18:16  
Operator : RC/JU  
Sample : SSTDICC0.8  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Quant Time: Aug 13 04:48:43 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 04:46:02 2025  
Response via : Initial Calibration

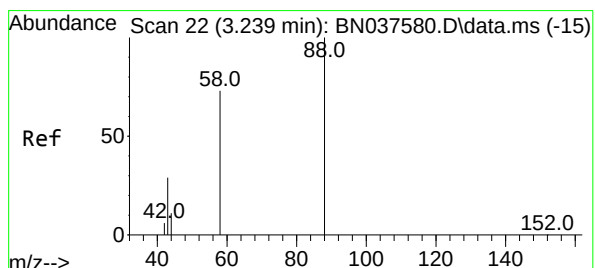
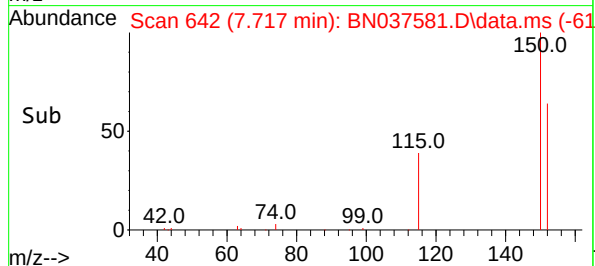
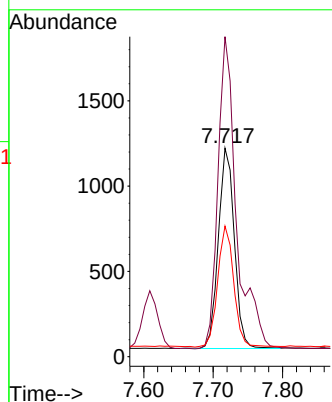
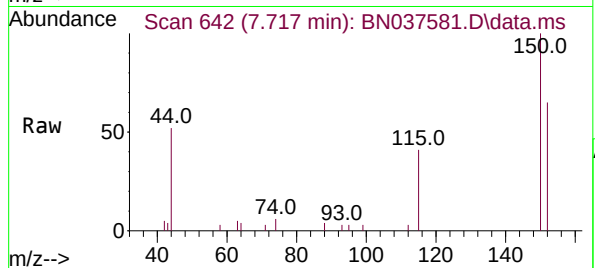




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

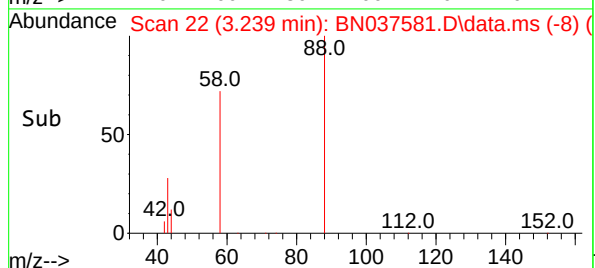
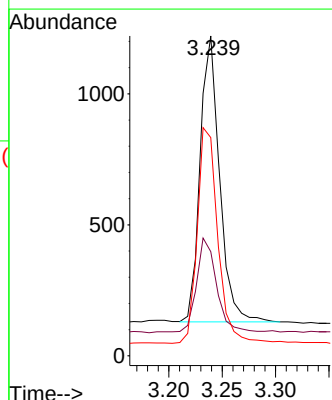
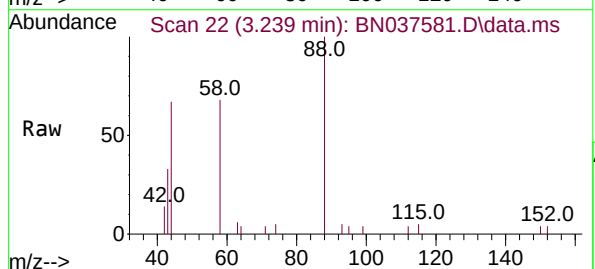
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Tgt Ion: 152 Resp: 1885  
Ion Ratio Lower Upper  
152 100  
150 153.5 122.2 183.4  
115 62.7 49.8 74.6

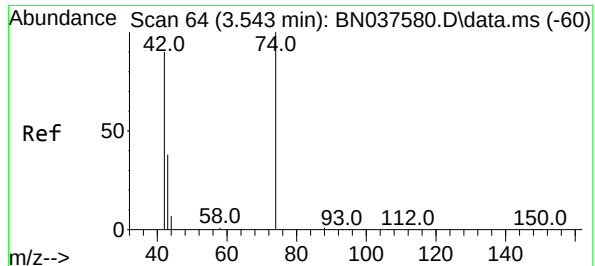


#2  
1,4-Dioxane  
Concen: 0.769 ng  
RT: 3.239 min Scan# 22  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

Tgt Ion: 88 Resp: 1386  
Ion Ratio Lower Upper  
88 100  
43 35.4 25.8 38.6  
58 79.9 61.2 91.8



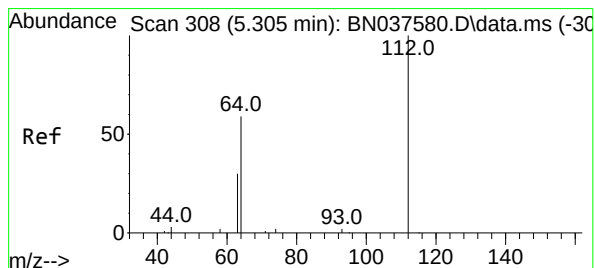
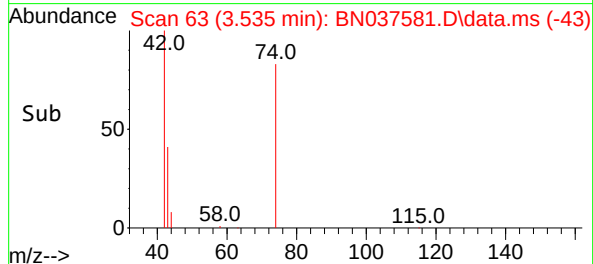
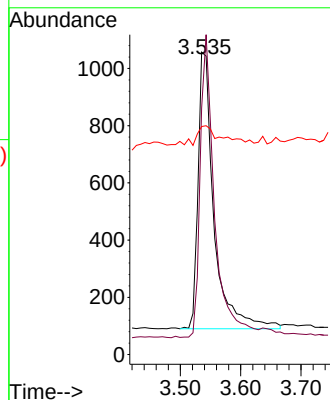
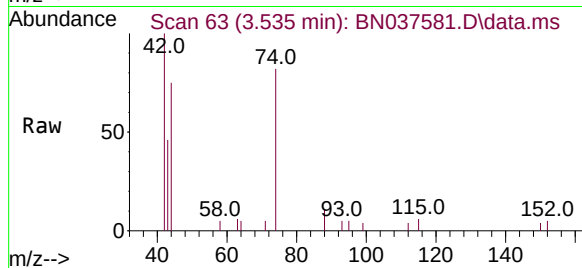




#3  
n-Nitrosodimethylamine  
Concen: 0.771 ng  
RT: 3.535 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

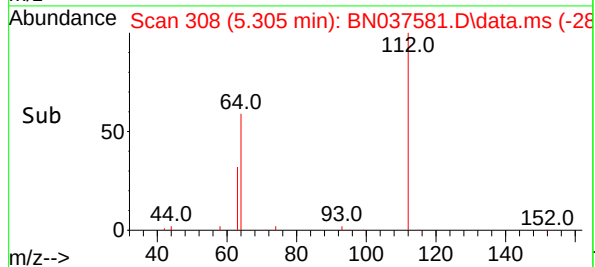
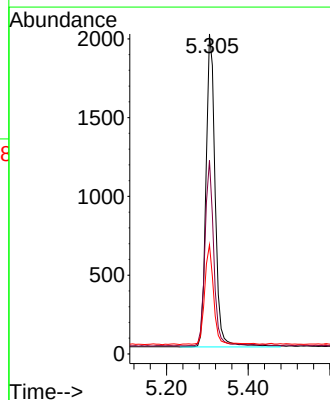
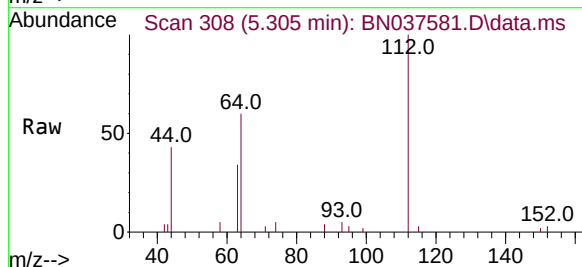
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

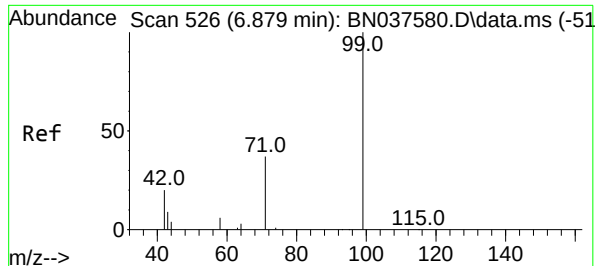
Tgt Ion: 42 Resp: 1777  
Ion Ratio Lower Upper  
42 100  
74 98.9 82.0 123.0  
44 12.9 7.9 11.9#



#4  
2-Fluorophenol  
Concen: 0.726 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

Tgt Ion: 112 Resp: 3101  
Ion Ratio Lower Upper  
112 100  
64 56.5 44.9 67.3  
63 31.0 23.4 35.2





#5

Phenol-d6

Concen: 0.721 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

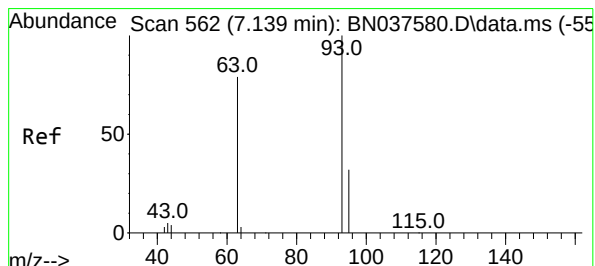
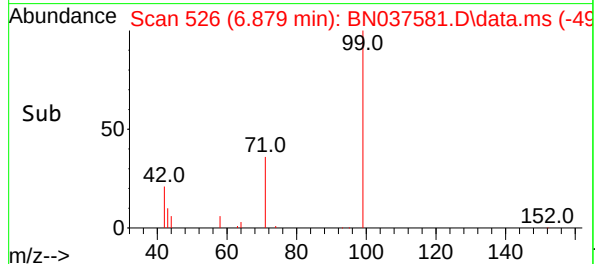
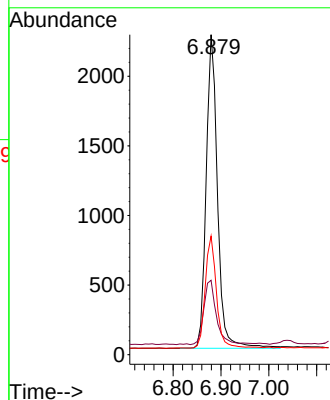
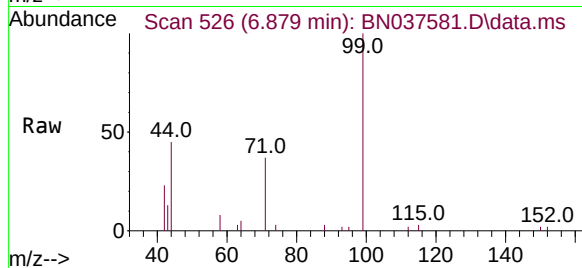
Tgt Ion: 99 Resp: 3707

Ion Ratio Lower Upper

99 100

42 22.9 18.5 27.7

71 35.5 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 0.762 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

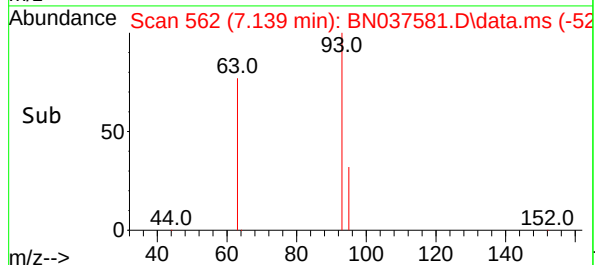
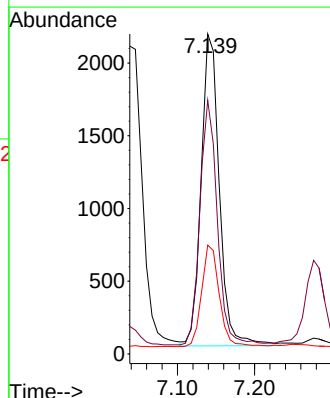
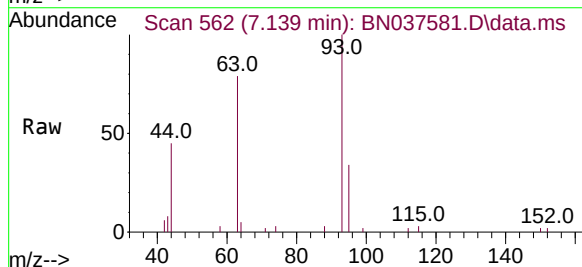
Tgt Ion: 93 Resp: 3530

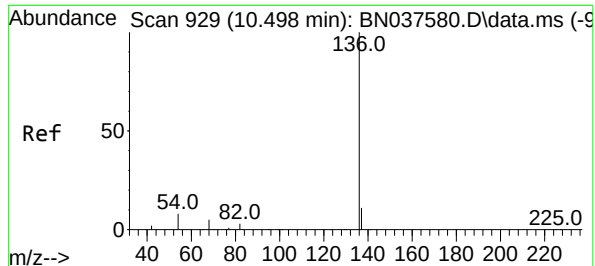
Ion Ratio Lower Upper

93 100

63 74.6 58.0 87.0

95 31.4 24.9 37.3

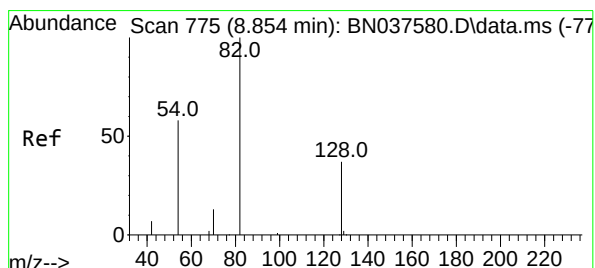
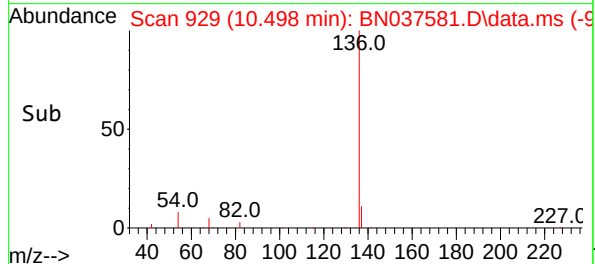
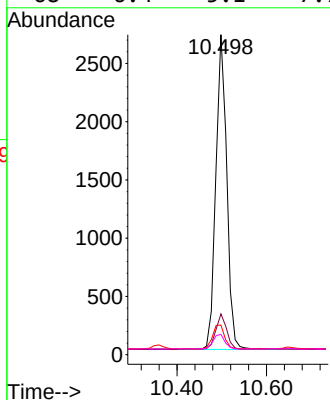
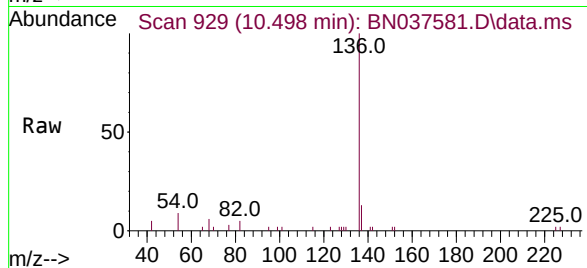




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

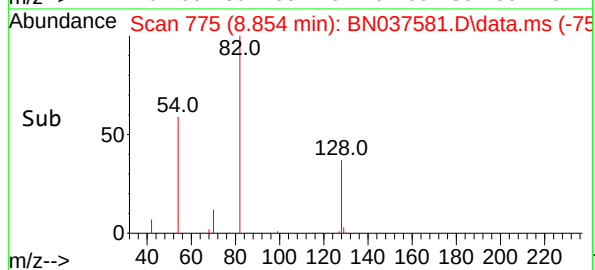
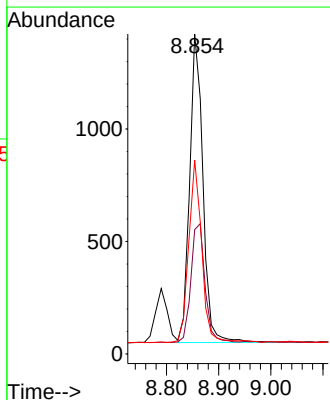
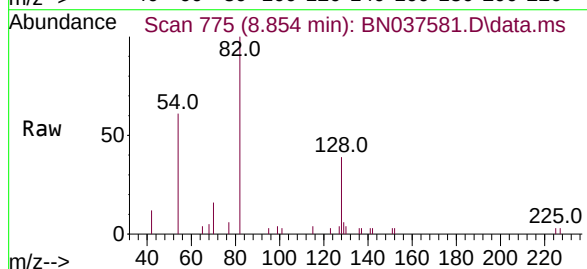
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

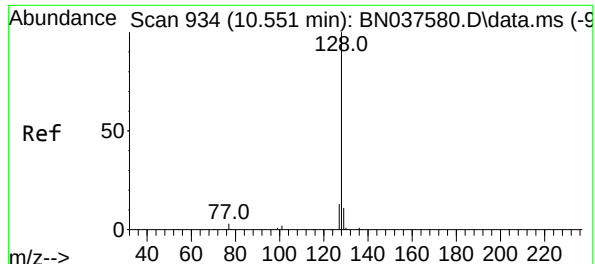
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4579  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.8  | 9.5   | 14.3  |
| 54       | 9.3   | 7.3   | 10.9  |
| 68       | 6.4   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.749 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2415  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 38.9  | 32.6  | 48.8  |
| 54       | 60.6  | 48.9  | 73.3  |

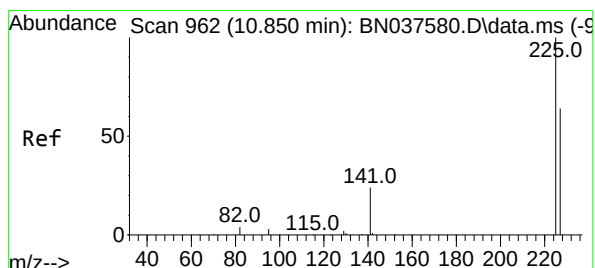
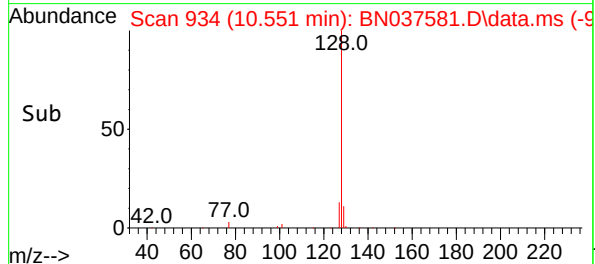
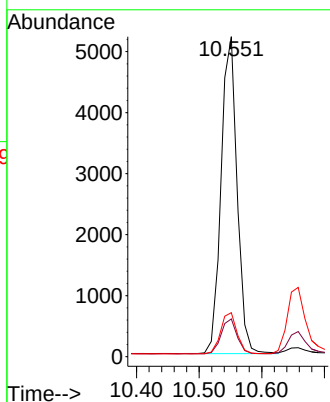
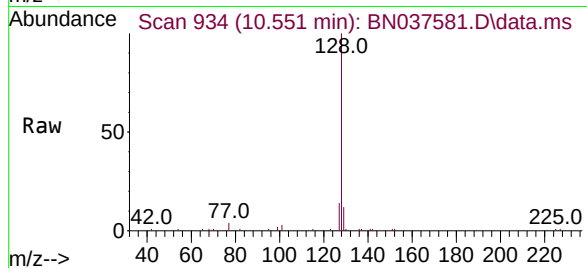




#9  
Naphthalene  
Concen: 0.760 ng  
RT: 10.551 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

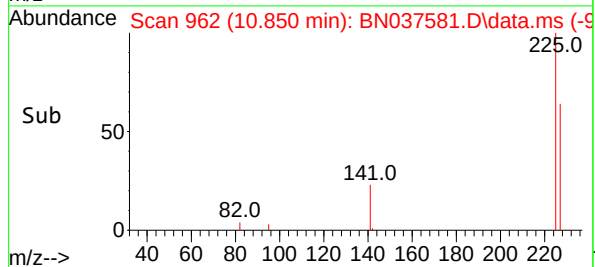
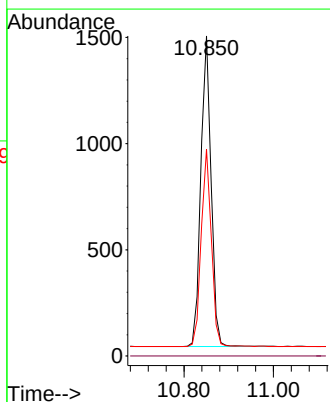
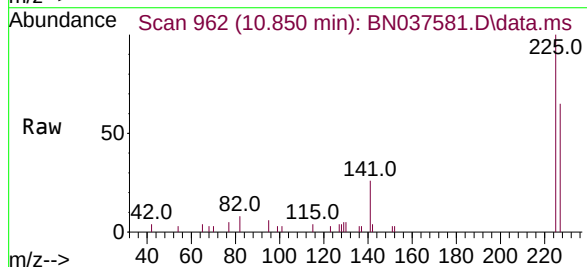
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

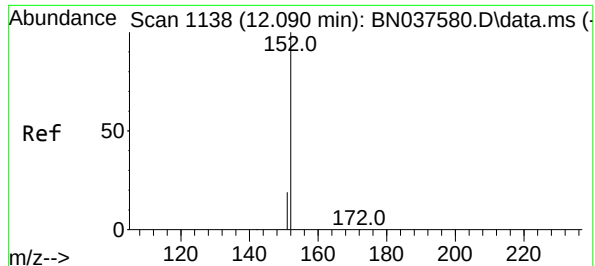
Tgt Ion:128 Resp: 9265  
Ion Ratio Lower Upper  
128 100  
129 11.8 9.8 14.6  
127 13.8 11.5 17.3



#10  
Hexachlorobutadiene  
Concen: 0.779 ng  
RT: 10.850 min Scan# 962  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

Tgt Ion:225 Resp: 2321  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.0 50.8 76.2

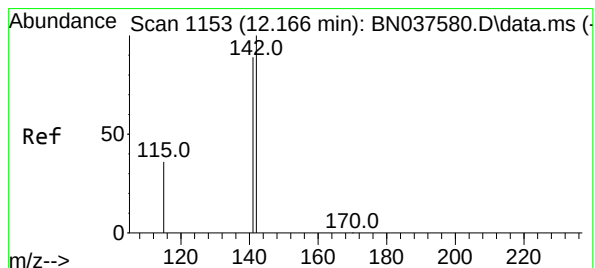
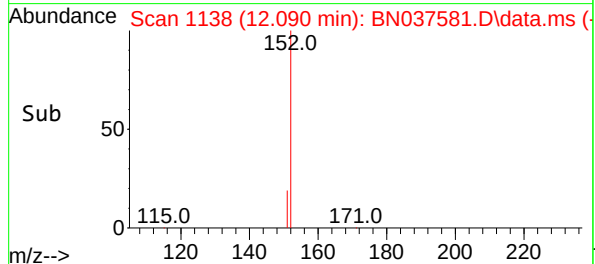
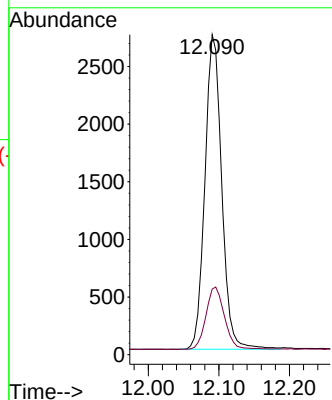
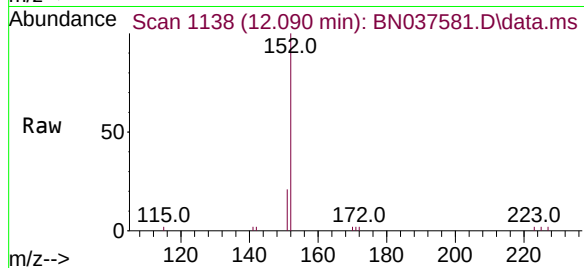




#11  
2-Methylnaphthalene-d10  
Concen: 0.726 ng  
RT: 12.090 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

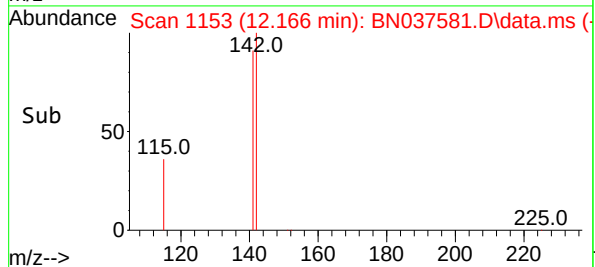
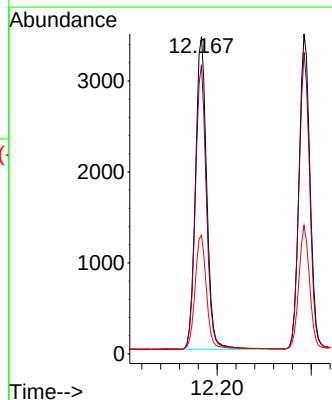
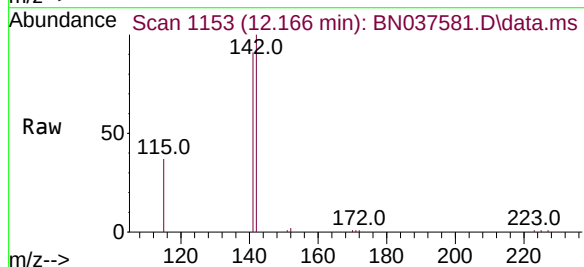
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

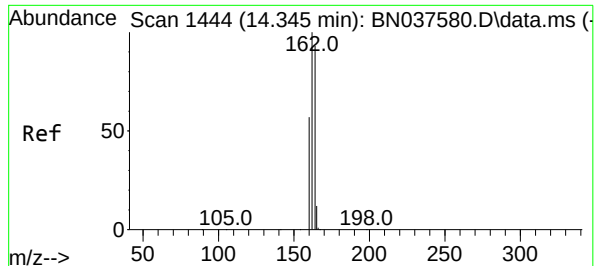
Tgt Ion:152 Resp: 4517  
Ion Ratio Lower Upper  
152 100  
151 21.9 17.3 25.9



#12  
2-Methylnaphthalene  
Concen: 0.753 ng  
RT: 12.166 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

Tgt Ion:142 Resp: 5758  
Ion Ratio Lower Upper  
142 100  
141 91.2 71.4 107.0  
115 37.5 30.2 45.4

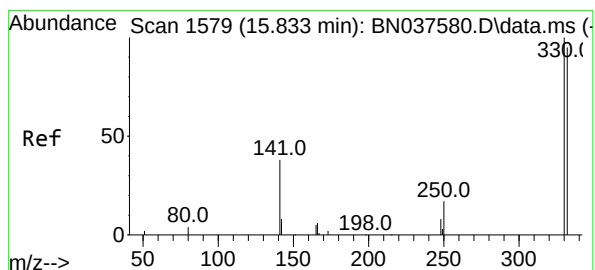
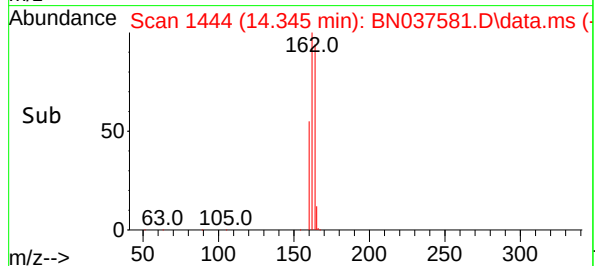
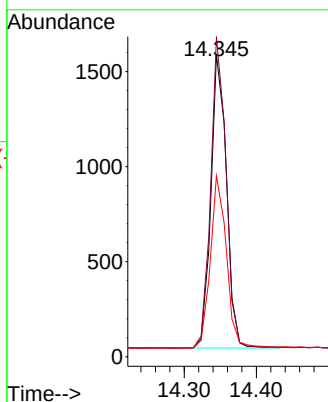
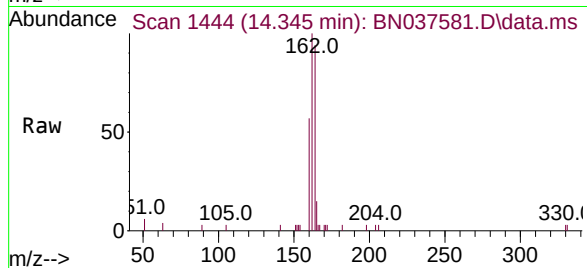




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

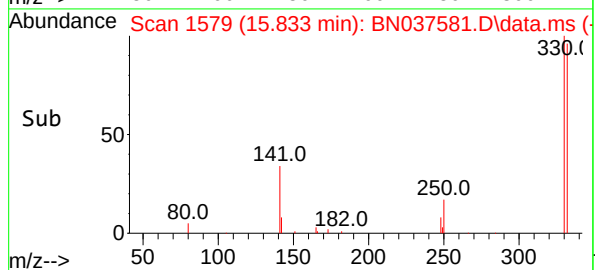
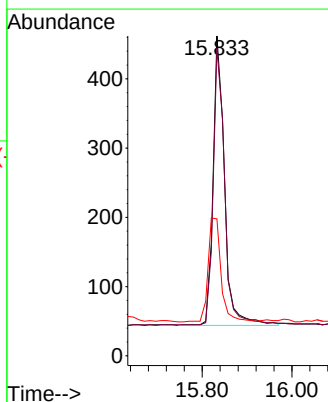
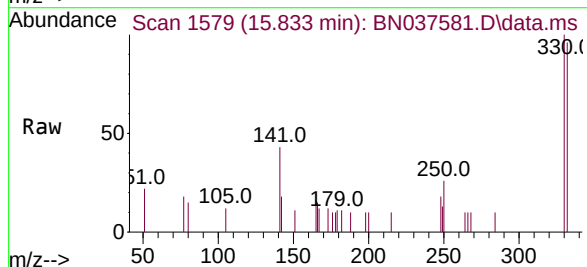
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

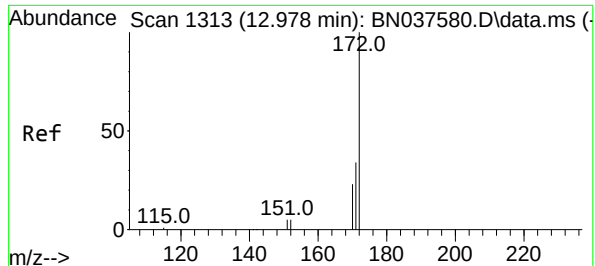
| Tgt Ion   | 164  | 162   | 160  |
|-----------|------|-------|------|
| Resp:     | 2311 |       |      |
| Ion Ratio | 100  | 105.9 | 59.8 |
| Lower     |      | 85.5  | 49.5 |
| Upper     |      | 128.3 | 74.3 |



#14  
2,4,6-Tribromophenol  
Concen: 0.731 ng  
RT: 15.833 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

| Tgt Ion   | 330 | 332   | 141  |
|-----------|-----|-------|------|
| Resp:     | 739 |       |      |
| Ion Ratio | 100 | 94.3  | 40.5 |
| Lower     |     | 77.4  | 30.9 |
| Upper     |     | 116.0 | 46.3 |

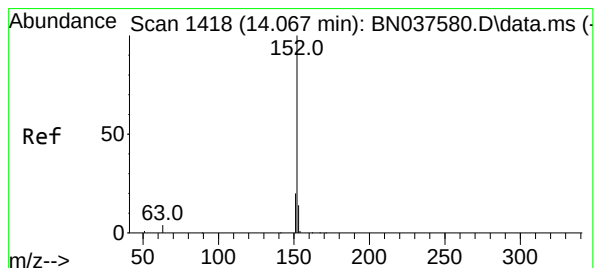
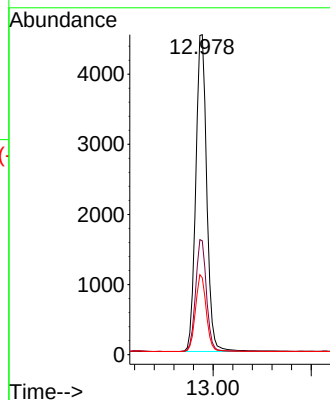
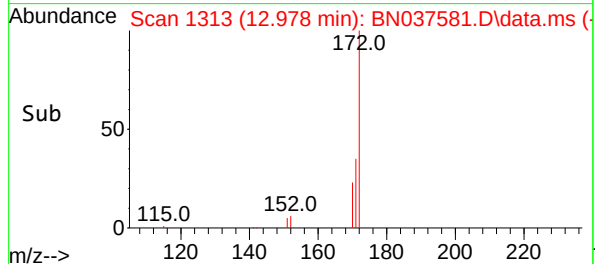
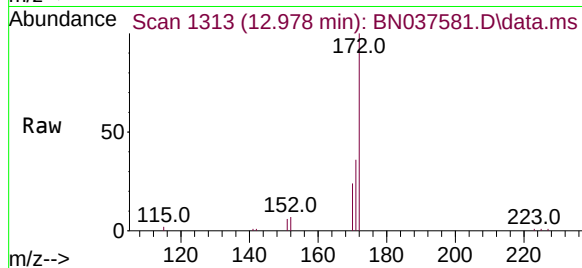




#15  
2-Fluorobiphenyl  
Concen: 0.778 ng  
RT: 12.978 min Scan# 1313  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

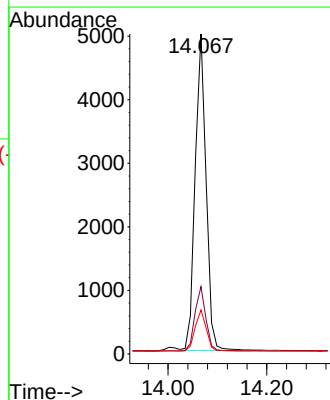
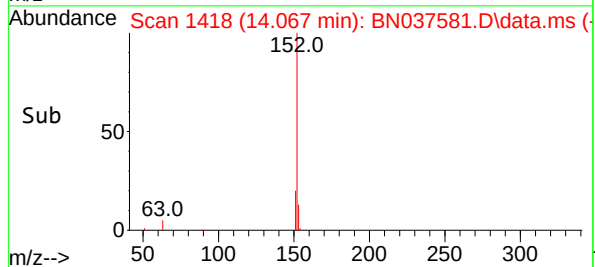
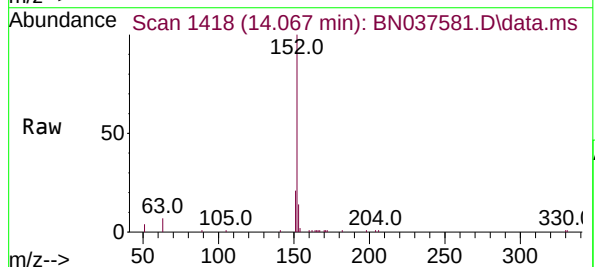
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

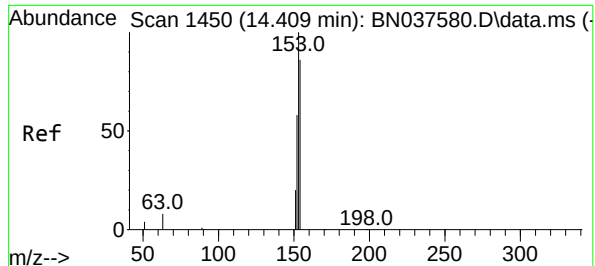
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.6  | 28.2  | 42.4  |
| 170     | 24.0  | 19.2  | 28.8  |



#16  
Acenaphthylene  
Concen: 0.737 ng  
RT: 14.067 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.2  | 16.1  | 24.1  |
| 153     | 13.1  | 10.7  | 16.1  |

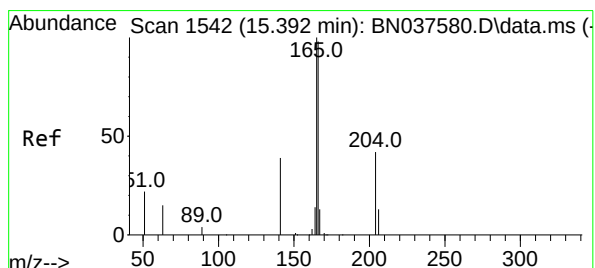
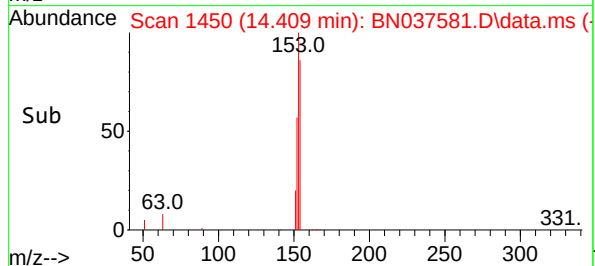
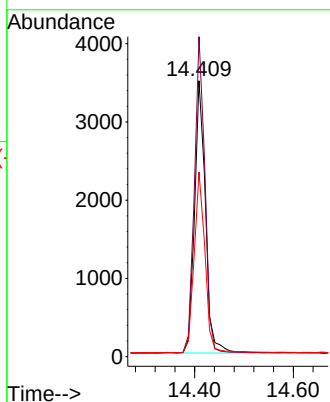
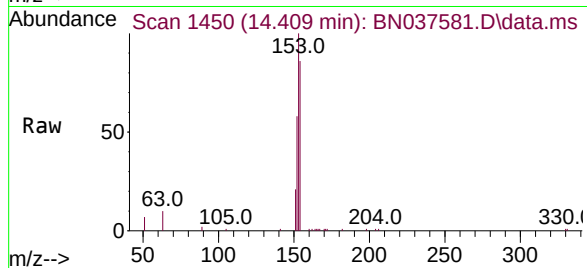




#17  
Acenaphthene  
Concen: 0.757 ng  
RT: 14.409 min Scan# 1450  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

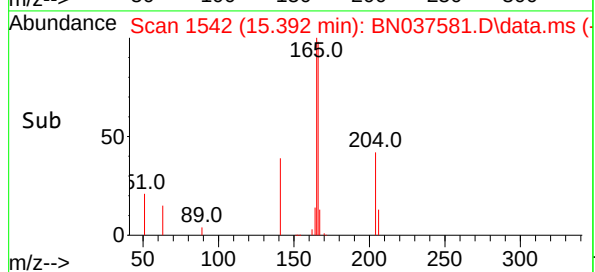
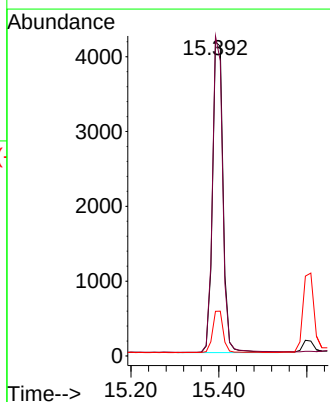
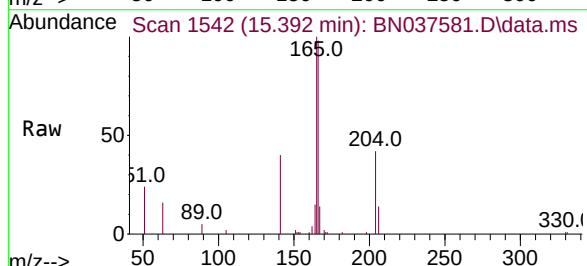
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Tgt Ion:154 Resp: 5336  
Ion Ratio Lower Upper  
154 100  
153 111.8 90.6 135.8  
152 66.9 54.9 82.3

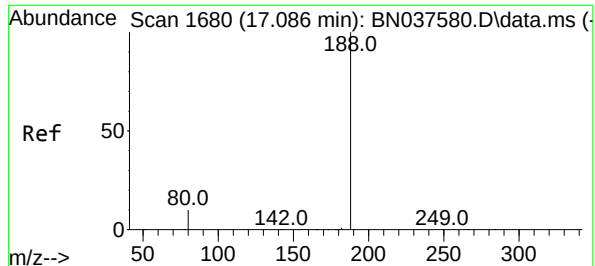


#18  
Fluorene  
Concen: 0.763 ng  
RT: 15.392 min Scan# 1542  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

Tgt Ion:166 Resp: 7030  
Ion Ratio Lower Upper  
166 100  
165 99.5 78.9 118.3  
167 13.4 10.7 16.1







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

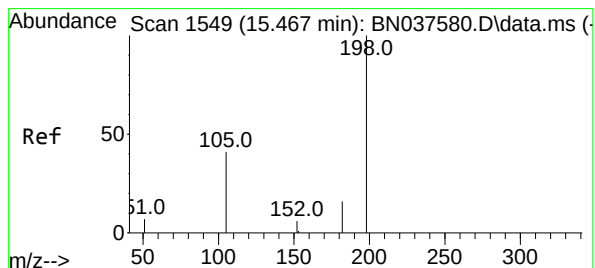
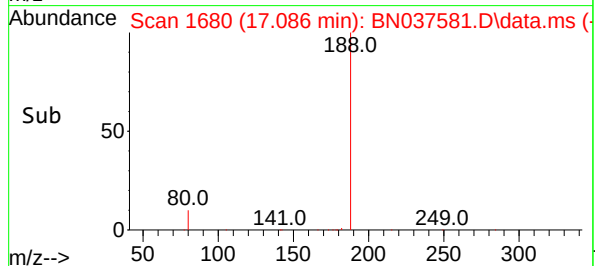
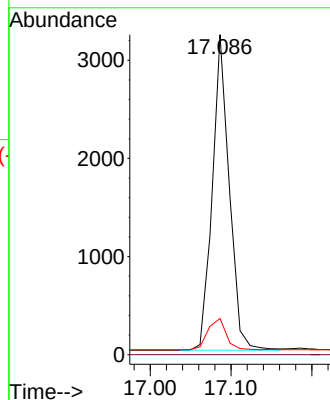
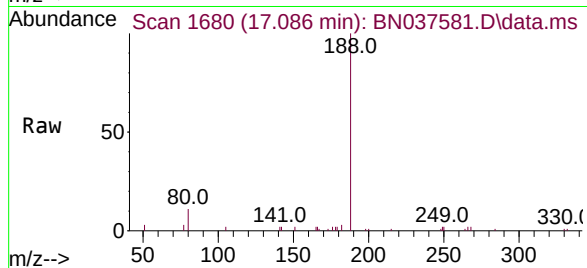
Tgt Ion:188 Resp: 4680

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.3 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.697 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

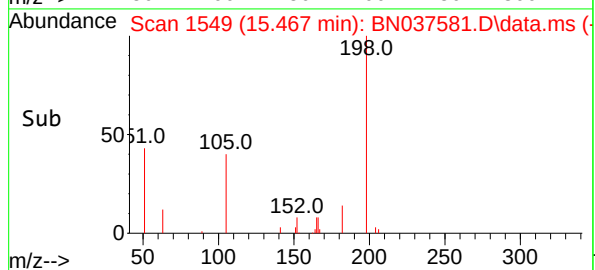
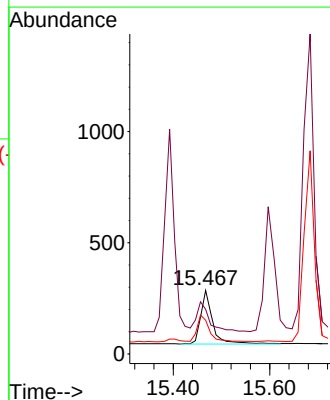
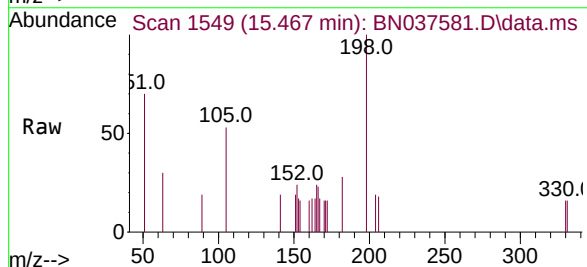
Tgt Ion:198 Resp: 439

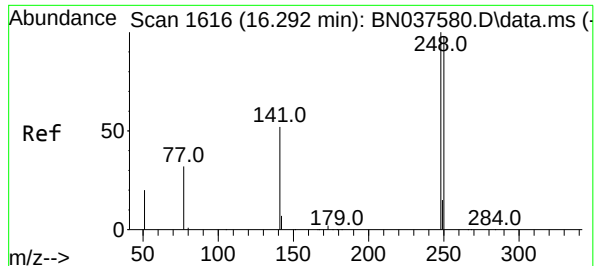
Ion Ratio Lower Upper

198 100

51 70.3 81.0 121.6#

105 53.1 52.5 78.7

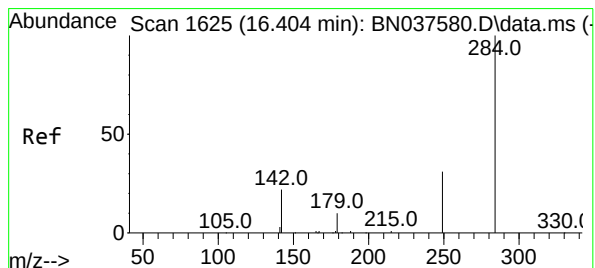
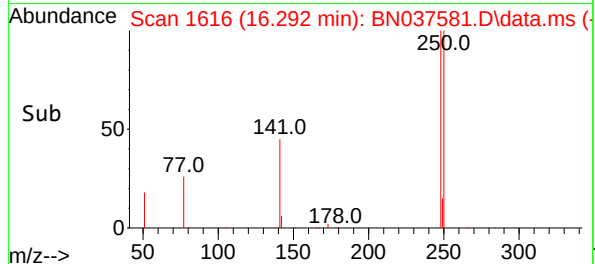
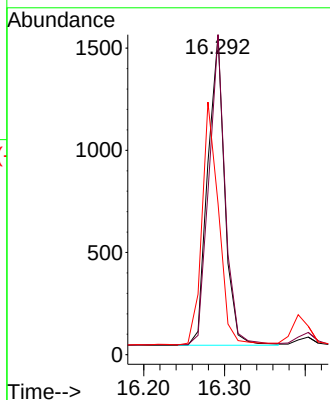
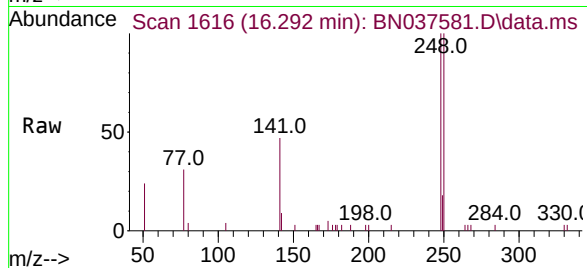




#21  
4-Bromophenyl-phenylether  
Concen: 0.754 ng  
RT: 16.292 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

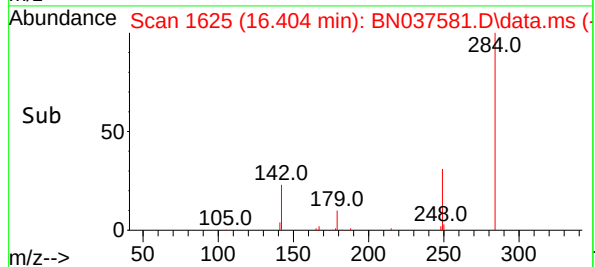
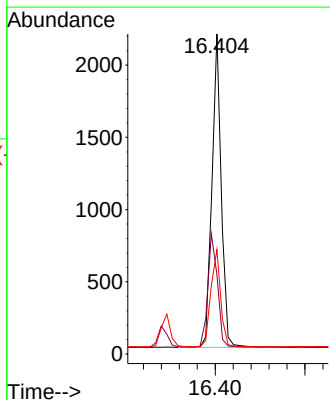
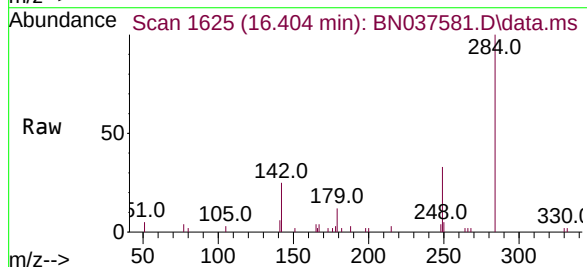
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

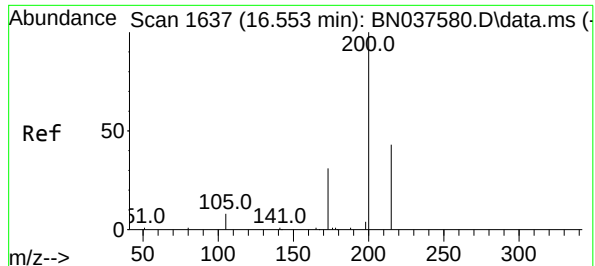
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 100.1 | 78.6  | 118.0 |
| 141     | 47.3  | 43.7  | 65.5  |



#22  
Hexachlorobenzene  
Concen: 0.745 ng  
RT: 16.404 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 37.6  | 29.8  | 44.6  |
| 249     | 32.9  | 26.0  | 39.0  |

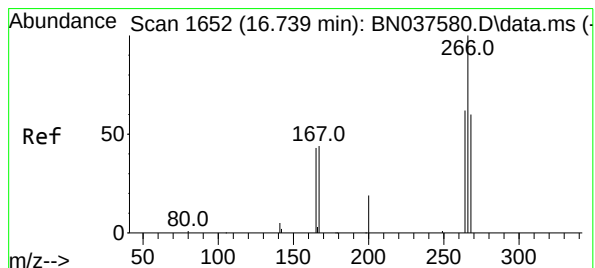
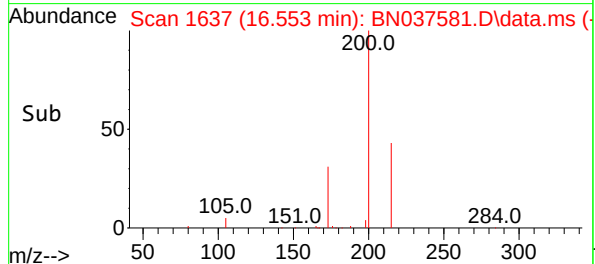
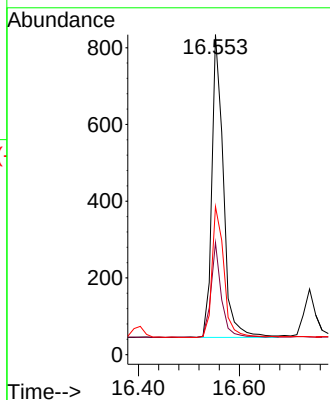
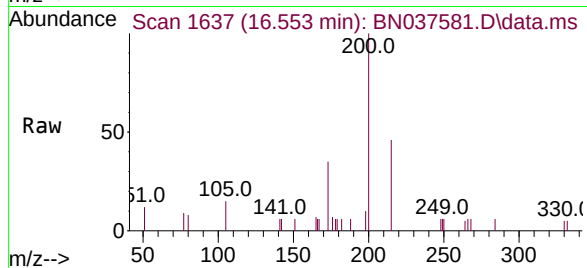




#23  
Atrazine  
Concen: 0.752 ng  
RT: 16.553 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

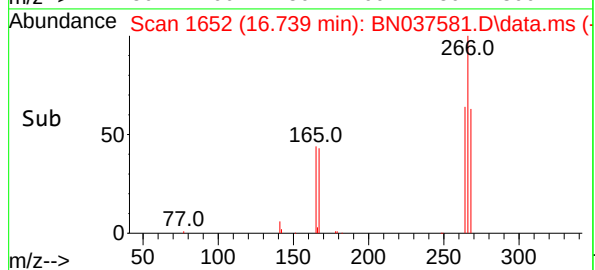
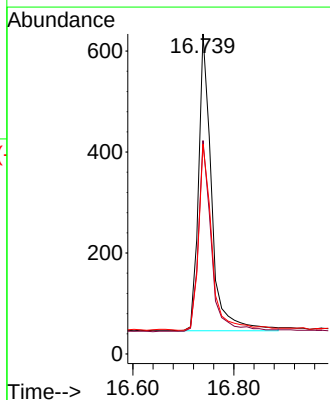
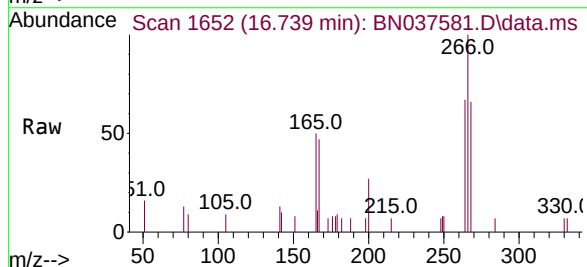
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

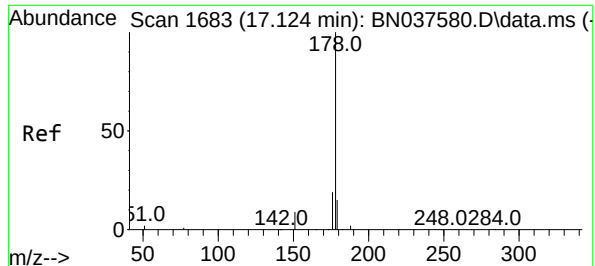
| Tgt Ion | 200   | Resp: | 1251  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 200     | 100   |       |       |
| 173     | 35.0  | 31.0  | 46.4  |
| 215     | 46.3  | 39.4  | 59.0  |



#24  
Pentachlorophenol  
Concen: 0.725 ng  
RT: 16.739 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

| Tgt Ion | 266   | Resp: | 1061  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 266     | 100   |       |       |
| 264     | 62.3  | 49.6  | 74.4  |
| 268     | 63.9  | 49.2  | 73.8  |

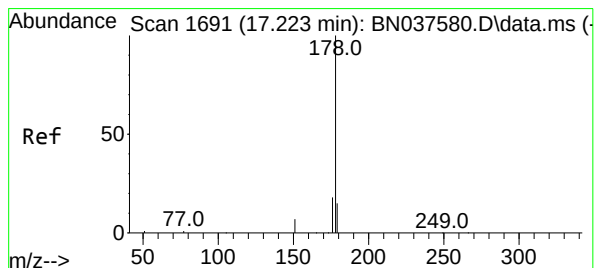
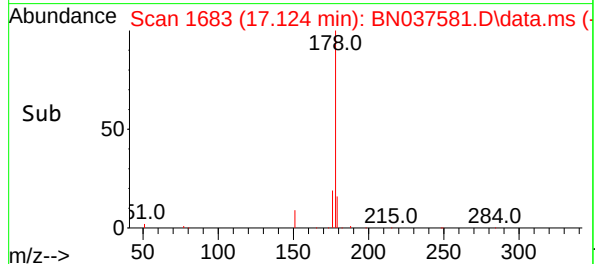
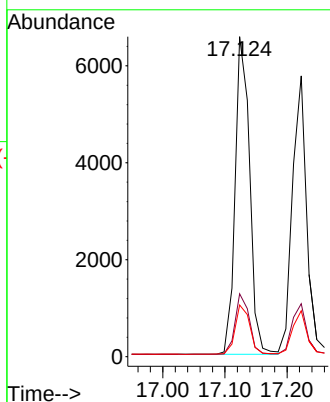
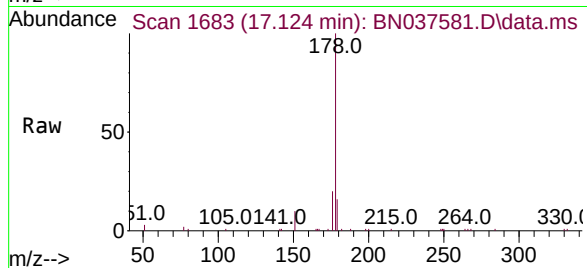




#25  
Phenanthrene  
Concen: 0.749 ng  
RT: 17.124 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

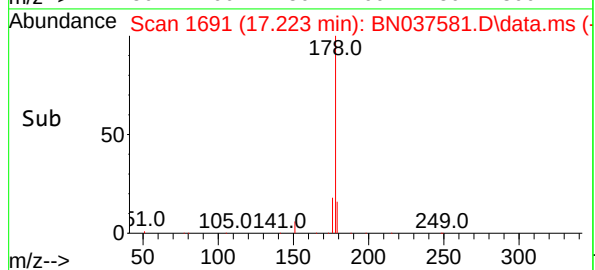
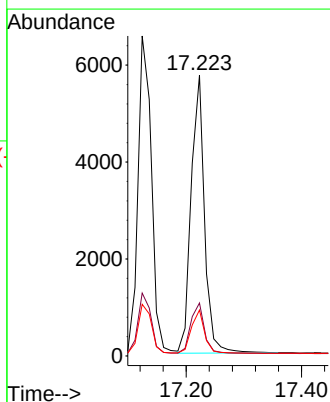
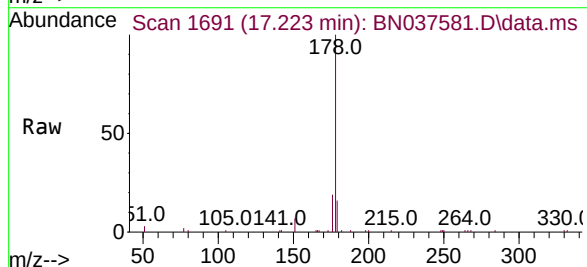
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

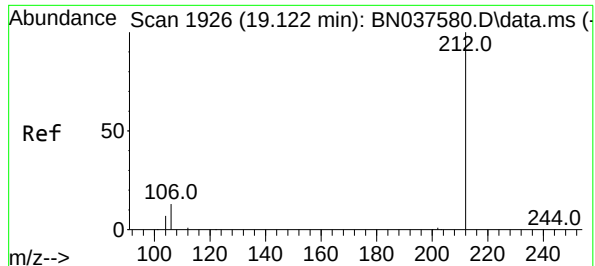
Tgt Ion:178 Resp: 10654  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.7 12.3 18.5



#26  
Anthracene  
Concen: 0.734 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

Tgt Ion:178 Resp: 9251  
Ion Ratio Lower Upper  
178 100  
176 18.5 14.7 22.1  
179 15.6 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.711 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.005 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

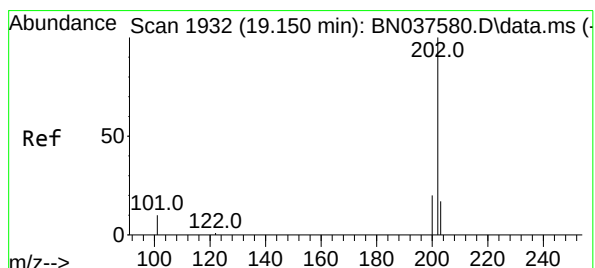
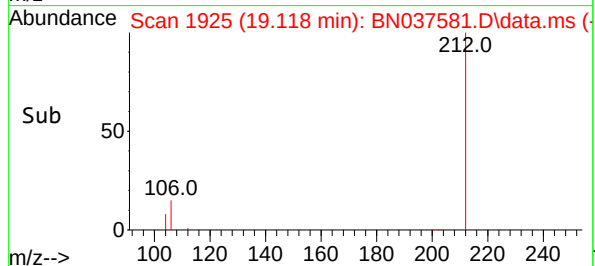
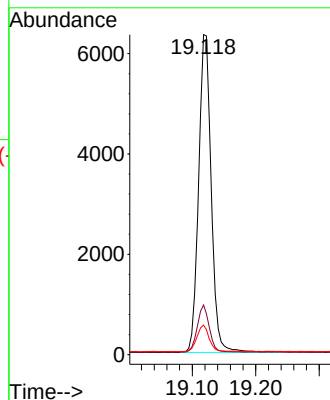
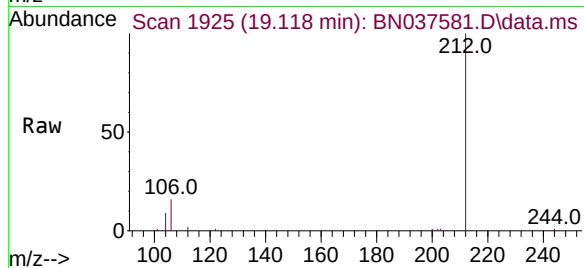
Tgt Ion:212 Resp: 8750

Ion Ratio Lower Upper

212 100

106 14.1 11.5 17.3

104 8.2 6.6 9.8



#28

Fluoranthene

Concen: 0.740 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

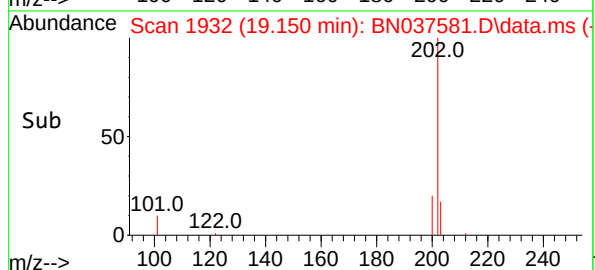
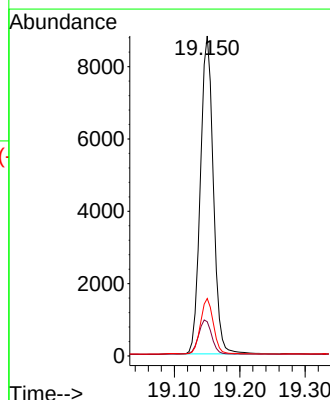
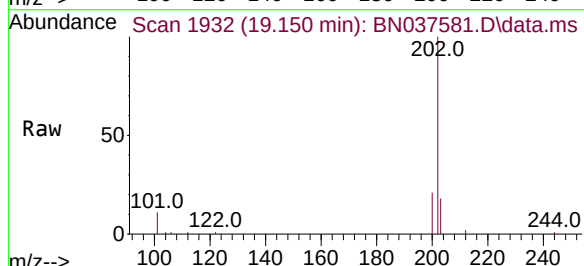
Tgt Ion:202 Resp: 12088

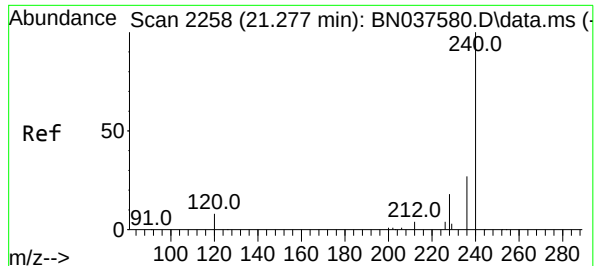
Ion Ratio Lower Upper

202 100

101 11.3 9.0 13.6

203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

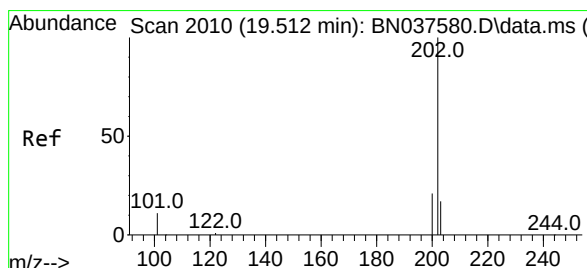
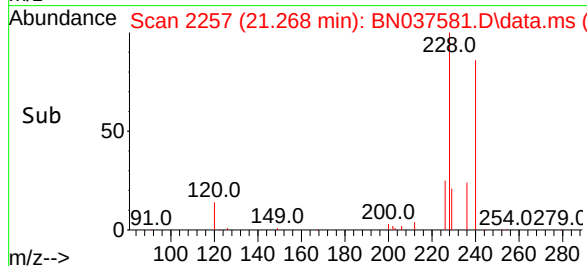
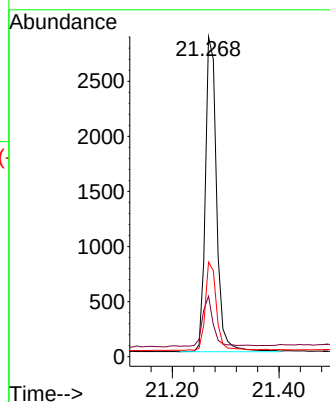
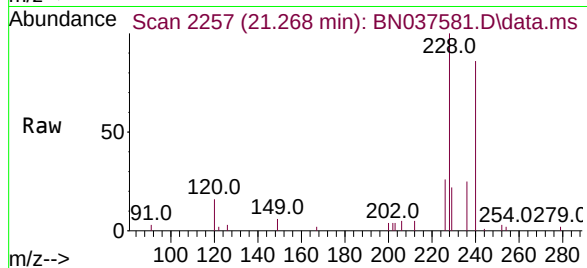
Tgt Ion:240 Resp: 4185

Ion Ratio Lower Upper

240 100

120 18.9 8.9 13.3#

236 29.5 22.6 33.8



#30

Pyrene

Concen: 0.751 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

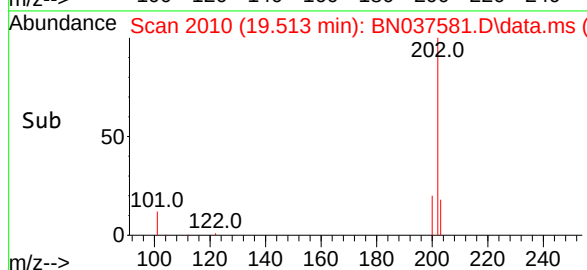
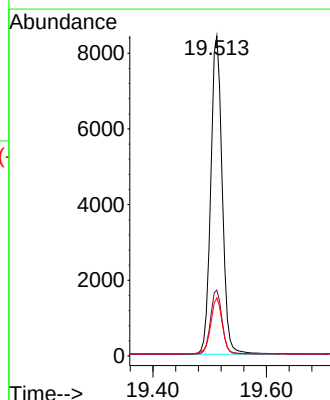
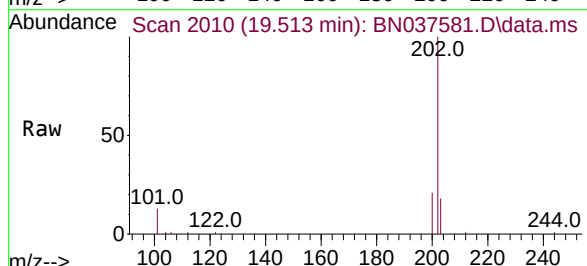
Tgt Ion:202 Resp: 11747

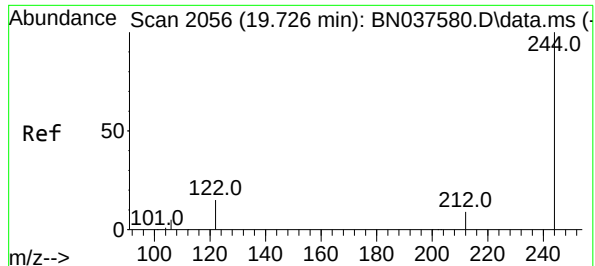
Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

203 17.9 14.3 21.5

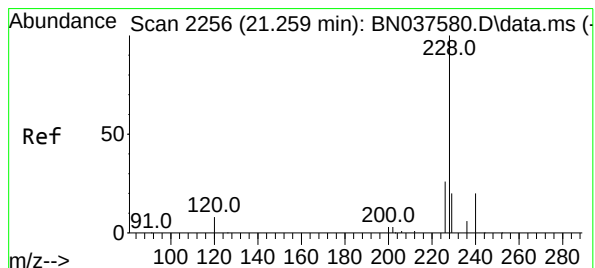
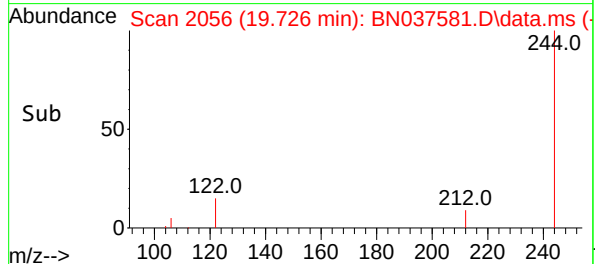
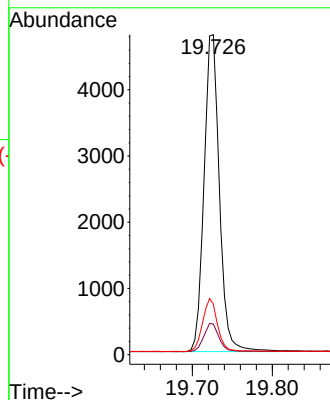
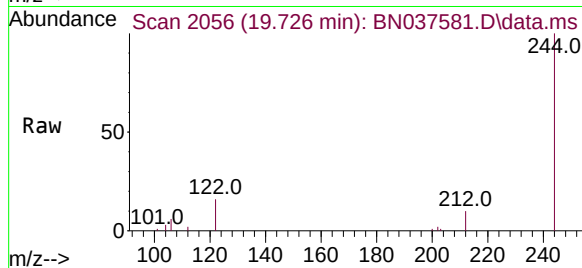




#31  
Terphenyl-d14  
Concen: 0.741 ng  
RT: 19.726 min Scan# 2056  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

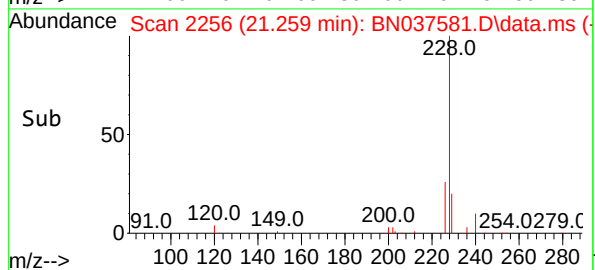
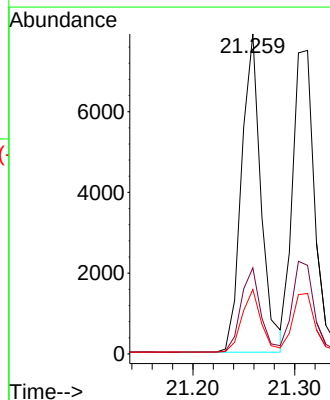
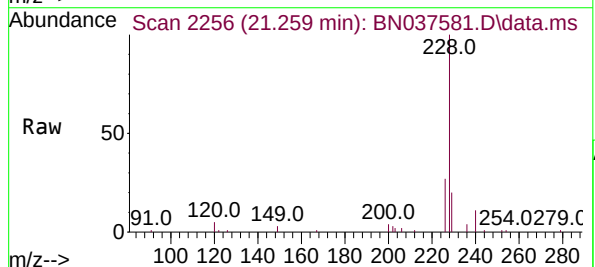
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

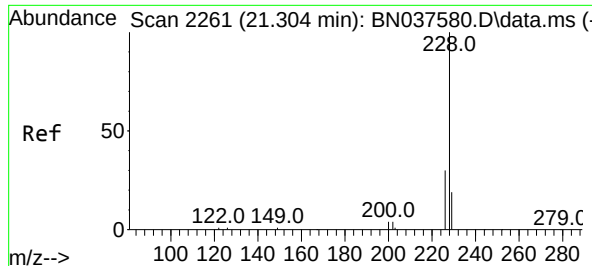
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.6   | 8.2   | 12.2  |
| 122     | 15.9  | 13.2  | 19.8  |



#32  
Benzo(a)anthracene  
Concen: 0.750 ng  
RT: 21.259 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: BN037581.D  
Acq: 12 Aug 2025 18:16

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 26.9  | 21.5  | 32.3  |
| 229     | 20.1  | 16.5  | 24.7  |





#33

Chrysene

Concen: 0.741 ng

RT: 21.313 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

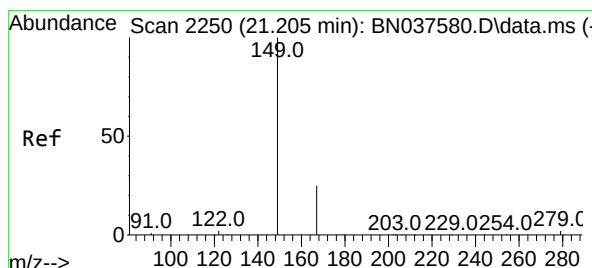
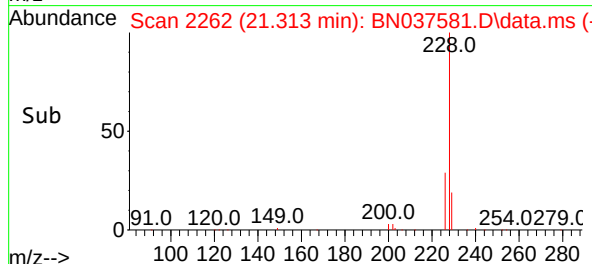
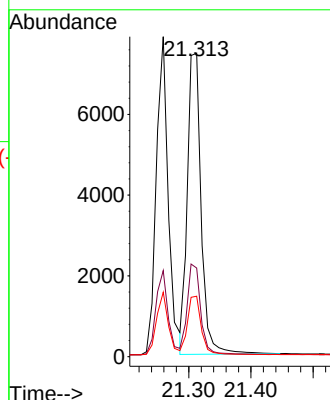
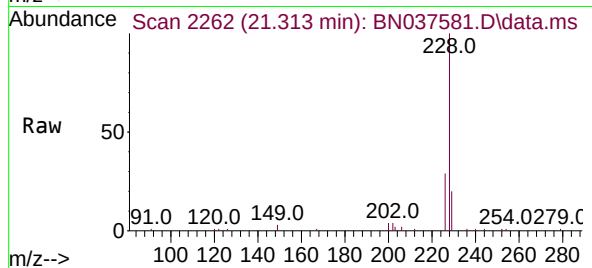
Tgt Ion:228 Resp: 11541

Ion Ratio Lower Upper

228 100

226 29.2 24.9 37.3

229 19.9 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.701 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

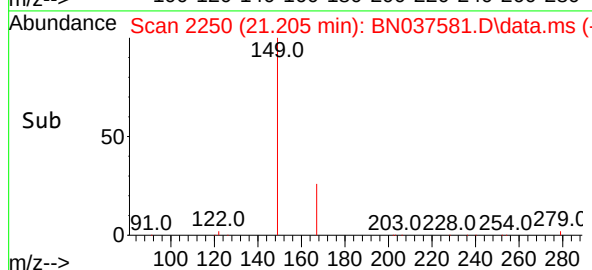
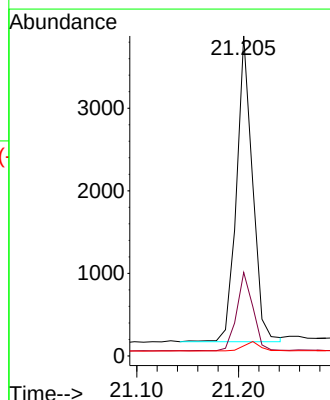
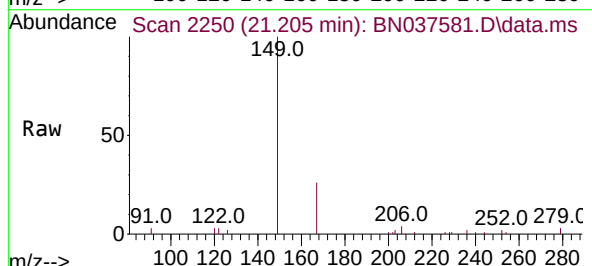
Tgt Ion:149 Resp: 4046

Ion Ratio Lower Upper

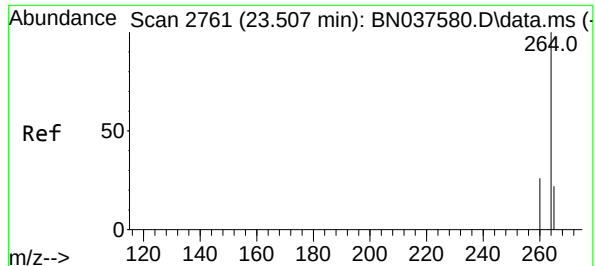
149 100

167 25.8 20.5 30.7

279 3.2 2.6 4.0







#35

Perylene-d12

Concen: 0.400 ng

RT: 23.505 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

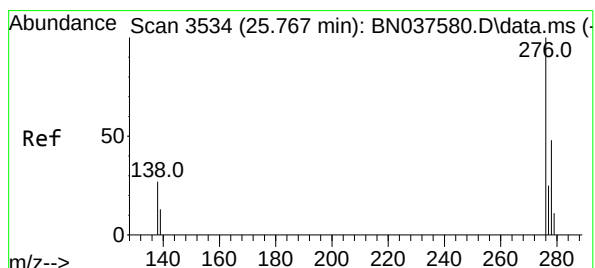
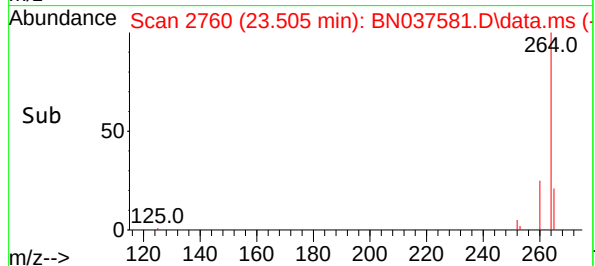
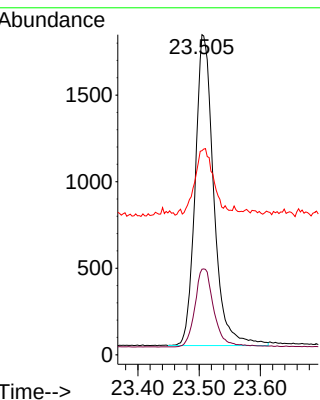
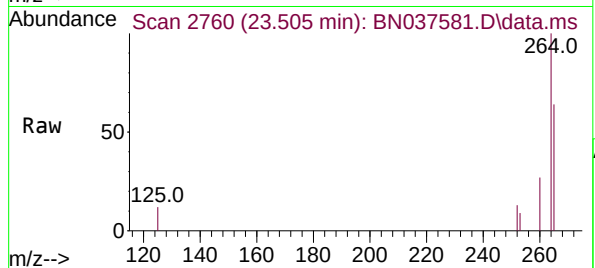
Tgt Ion:264 Resp: 3775

Ion Ratio Lower Upper

264 100

260 26.7 21.6 32.4

265 63.8 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.744 ng

RT: 25.770 min Scan# 3535

Delta R.T. 0.003 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

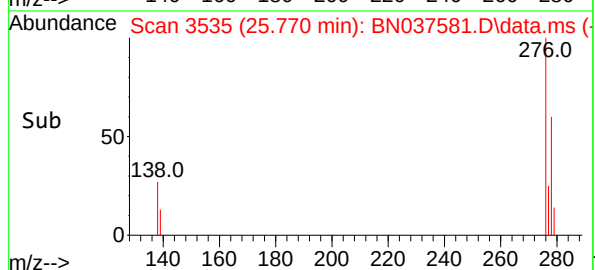
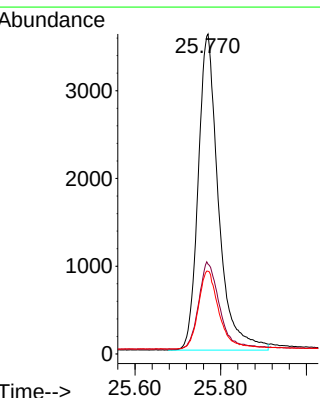
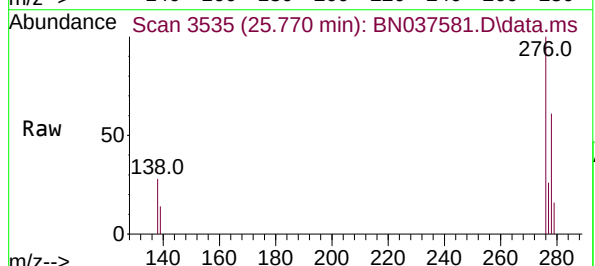
Tgt Ion:276 Resp: 11835

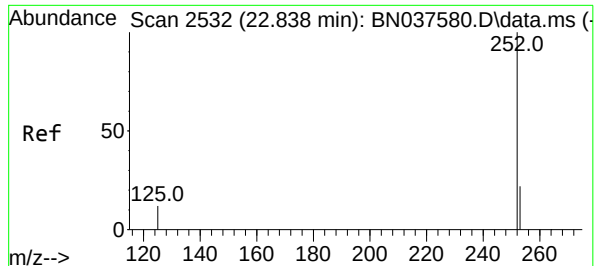
Ion Ratio Lower Upper

276 100

138 28.4 23.3 34.9

277 25.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.756 ng

RT: 22.838 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

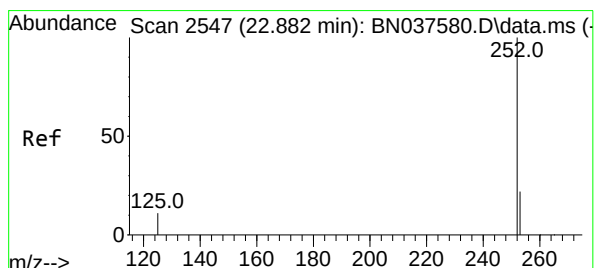
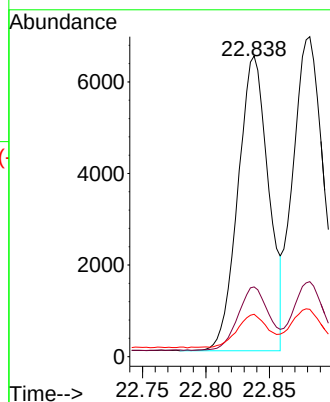
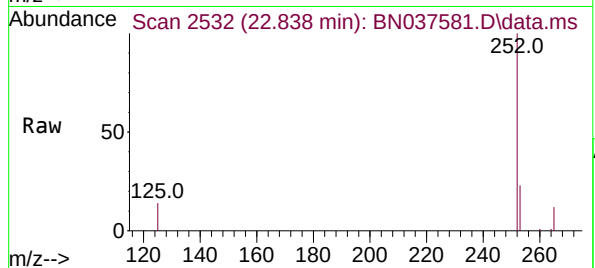
Tgt Ion:252 Resp: 10811

Ion Ratio Lower Upper

252 100

253 23.2 20.0 30.0

125 14.1 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.761 ng

RT: 22.882 min Scan# 2547

Delta R.T. 0.000 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

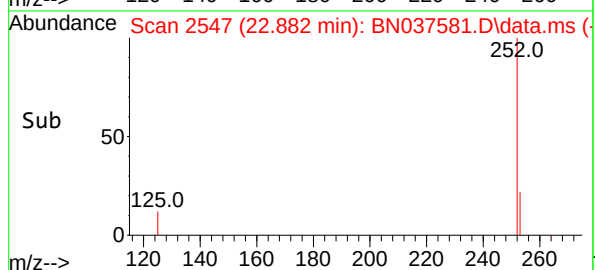
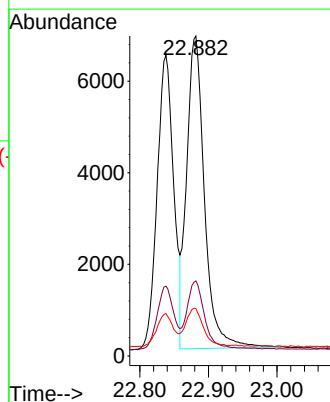
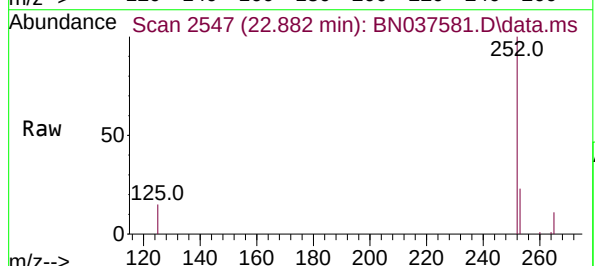
Tgt Ion:252 Resp: 12288

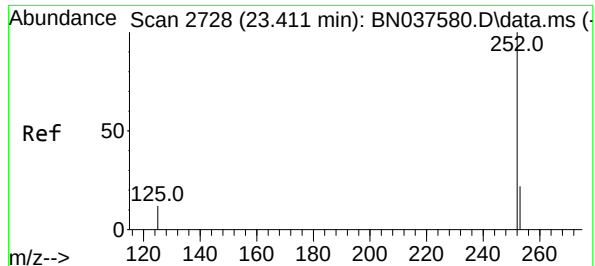
Ion Ratio Lower Upper

252 100

253 23.4 19.9 29.9

125 14.8 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 0.736 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037581.D

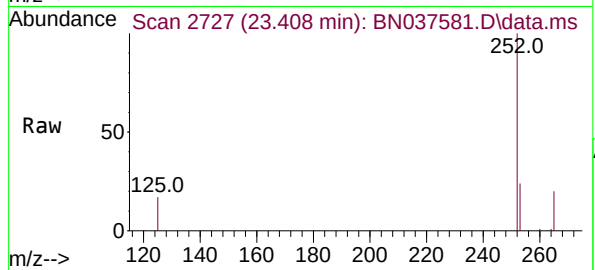
Acq: 12 Aug 2025 18:16

Instrument :

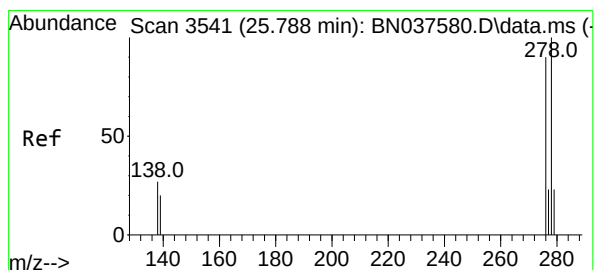
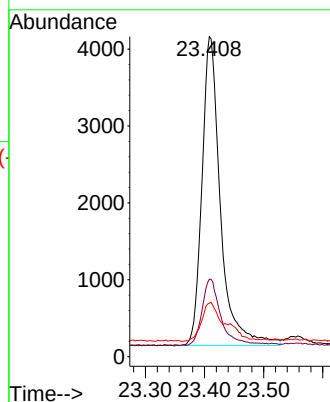
BNA\_N

ClientSampleId :

SSTDICC0.8



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 8737  |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 24.2  | 21.6  | 32.4  |
| 125       | 16.7  | 16.8  | 25.2# |



#40

Dibenzo(a,h)anthracene

Concen: 0.743 ng

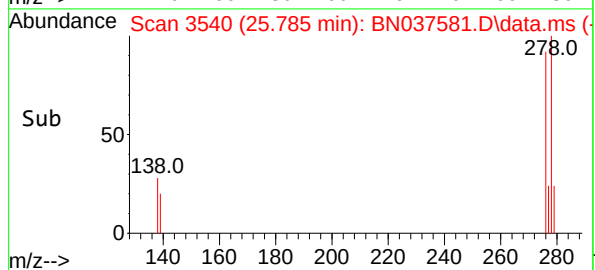
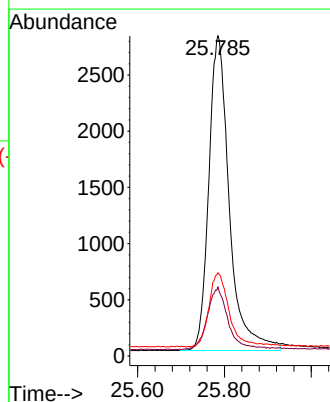
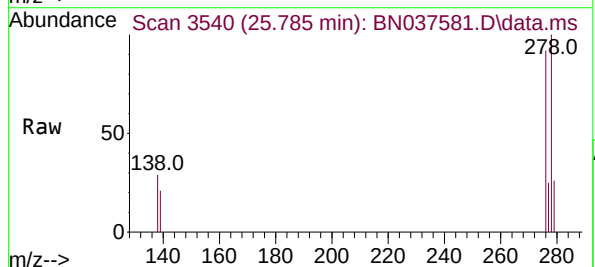
RT: 25.785 min Scan# 3540

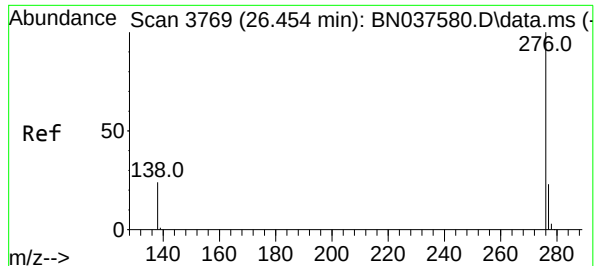
Delta R.T. -0.003 min

Lab File: BN037581.D

Acq: 12 Aug 2025 18:16

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 9175 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 21.5  | 18.3  | 27.5 |
| 279       | 26.0  | 22.5  | 33.7 |





#41

Benzo(g,h,i)perylene

Concen: 0.732 ng

RT: 26.454 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037581.D

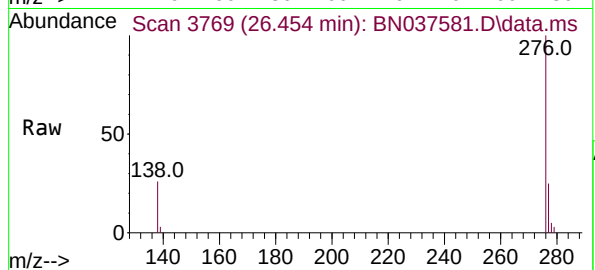
Acq: 12 Aug 2025 18:16

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



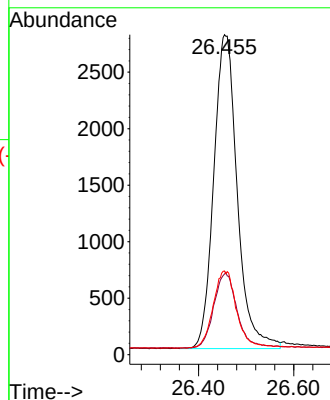
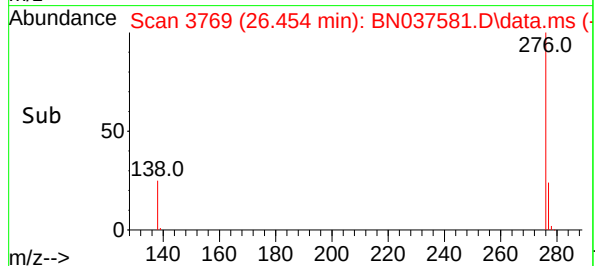
Tgt Ion:276 Resp: 9524

Ion Ratio Lower Upper

276 100

277 25.2 21.0 31.4

138 26.2 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
 Data File : BN037582.D  
 Acq On : 12 Aug 2025 18:52  
 Operator : RC/JU  
 Sample : SSTDICC1.6  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

Quant Time: Aug 13 04:49:09 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 04:46:02 2025  
 Response via : Initial Calibration

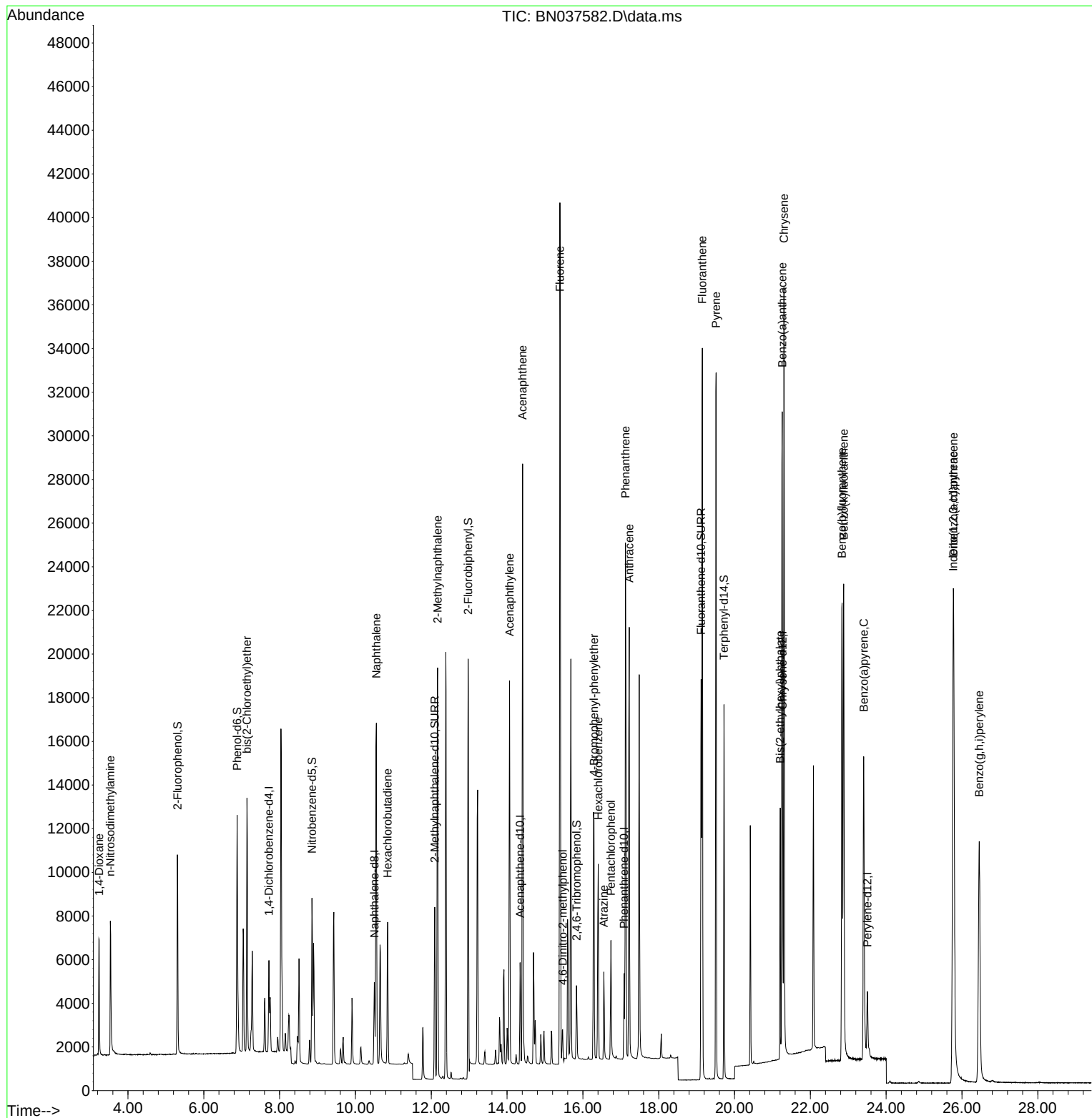
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 1999     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 4868     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2499     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 4868     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 4728     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.505 | 264  | 4054     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 7088     | 1.564 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 9580     | 1.757 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 5686     | 1.658 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.091 | 152  | 10567    | 1.597 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 1852     | 1.693 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 23403    | 1.619 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.118 | 212  | 20450    | 1.597 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.722 | 244  | 15761    | 1.620 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 3171     | 1.658 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.535  | 42   | 3942     | 1.613 | ng    | 97       |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 8159     | 1.660 | ng    | 98       |
| 9) Naphthalene                | 10.552 | 128  | 21204    | 1.636 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.851 | 225  | 5193     | 1.640 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.167 | 142  | 13647    | 1.679 | ng    | 99       |
| 16) Acenaphthylene            | 14.067 | 152  | 18492    | 1.651 | ng    | 100      |
| 17) Acenaphthene              | 14.409 | 154  | 12820    | 1.682 | ng    | 96       |
| 18) Fluorene                  | 15.393 | 166  | 16858    | 1.691 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.467 | 198  | 1182     | 1.517 | ng    | # 56     |
| 21) 4-Bromophenyl-phenylether | 16.292 | 248  | 5158     | 1.686 | ng    | 94       |
| 22) Hexachlorobenzene         | 16.404 | 284  | 7080     | 1.633 | ng    | 100      |
| 23) Atrazine                  | 16.553 | 200  | 3118     | 1.803 | ng    | 93       |
| 24) Pentachlorophenol         | 16.739 | 266  | 2704     | 1.775 | ng    | 99       |
| 25) Phenanthrene              | 17.124 | 178  | 24938    | 1.685 | ng    | 100      |
| 26) Anthracene                | 17.223 | 178  | 22287    | 1.701 | ng    | 100      |
| 28) Fluoranthene              | 19.150 | 202  | 29263    | 1.721 | ng    | 100      |
| 30) Pyrene                    | 19.513 | 202  | 28406    | 1.607 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.259 | 228  | 25547    | 1.618 | ng    | 99       |
| 33) Chrysene                  | 21.304 | 228  | 28577    | 1.624 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 9868     | 1.514 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.768 | 276  | 29448    | 1.724 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.835 | 252  | 26189    | 1.705 | ng    | # 92     |
| 38) Benzo(k)fluoranthene      | 22.879 | 252  | 29528    | 1.703 | ng    | # 91     |
| 39) Benzo(a)pyrene            | 23.408 | 252  | 21441    | 1.683 | ng    | # 89     |
| 40) Dibenzo(a,h)anthracene    | 25.779 | 278  | 23334    | 1.761 | ng    | 93       |
| 41) Benzo(g,h,i)perylene      | 26.455 | 276  | 23781    | 1.703 | ng    | 96       |
| -----                         |        |      |          |       |       |          |

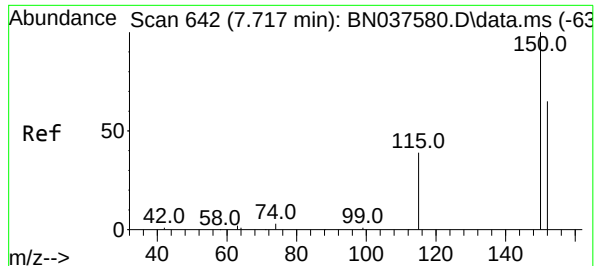
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
Data File : BN037582.D  
Acq On : 12 Aug 2025 18:52  
Operator : RC/JU  
Sample : SSTDICC1.6  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

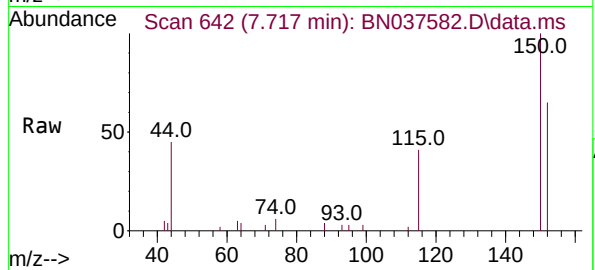
Quant Time: Aug 13 04:49:09 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 04:46:02 2025  
Response via : Initial Calibration



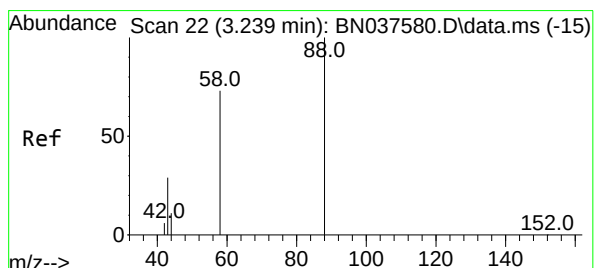
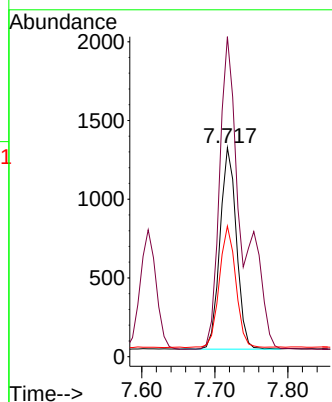
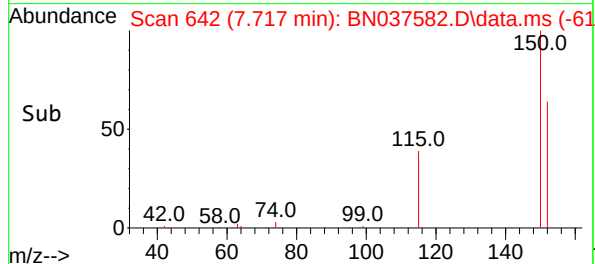


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

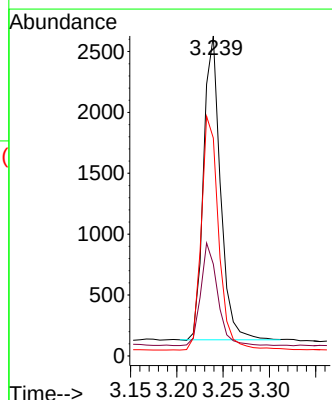
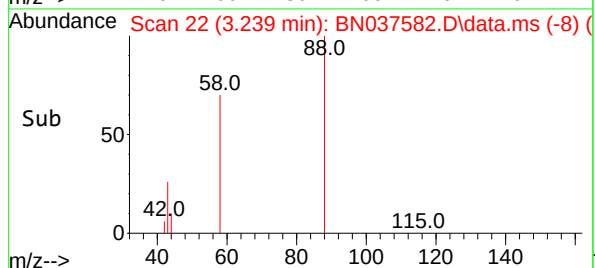
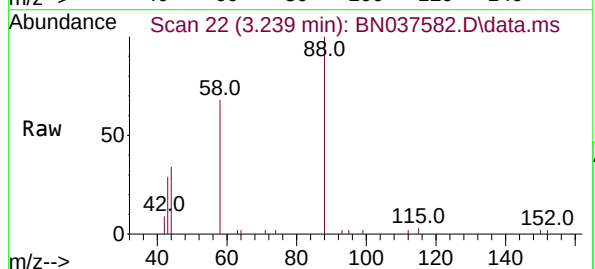


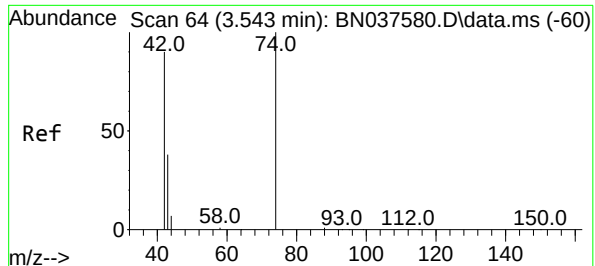
Tgt Ion:152 Resp: 1999  
Ion Ratio Lower Upper  
152 100  
150 153.1 122.2 183.4  
115 62.5 49.8 74.6



#2  
1,4-Dioxane  
Concen: 1.658 ng  
RT: 3.239 min Scan# 22  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

Tgt Ion: 88 Resp: 3171  
Ion Ratio Lower Upper  
88 100  
43 33.6 25.8 38.6  
58 79.6 61.2 91.8

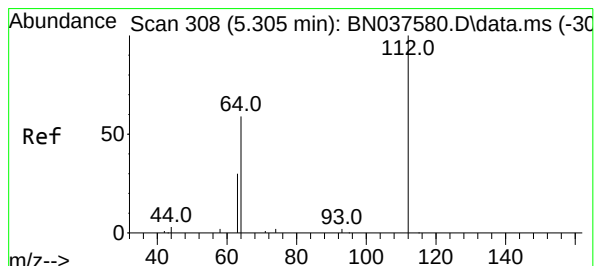
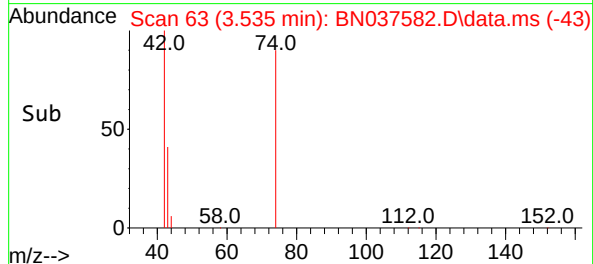
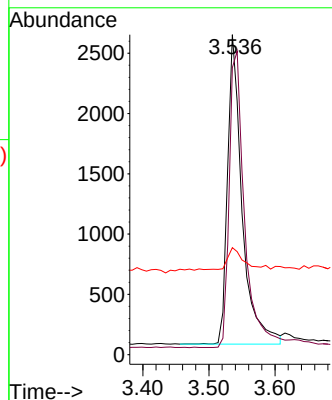
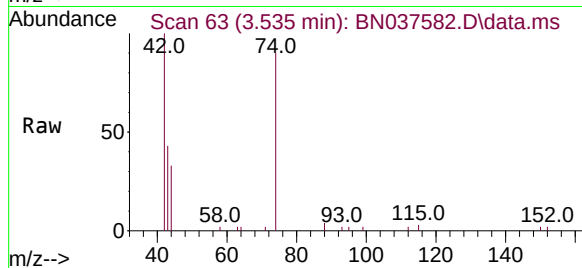




#3  
n-Nitrosodimethylamine  
Concen: 1.613 ng  
RT: 3.535 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

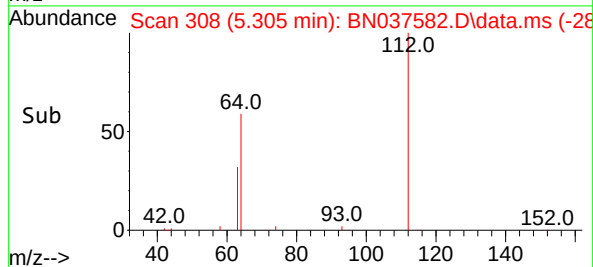
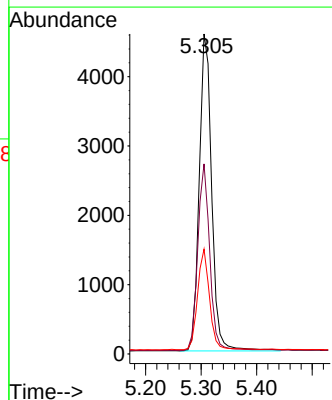
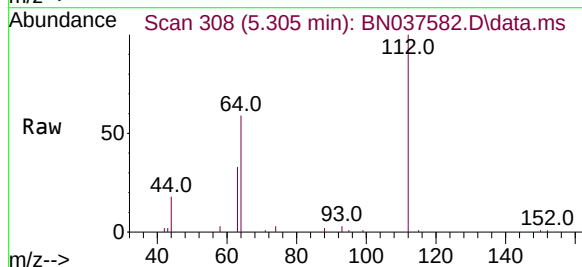
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Tgt Ion: 42 Resp: 3942  
Ion Ratio Lower Upper  
42 100  
74 105.0 82.0 123.0  
44 8.0 7.9 11.9

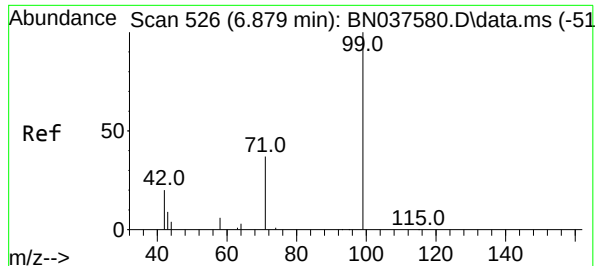


#4  
2-Fluorophenol  
Concen: 1.564 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

Tgt Ion: 112 Resp: 7088  
Ion Ratio Lower Upper  
112 100  
64 56.7 44.9 67.3  
63 30.5 23.4 35.2







#5

Phenol-d6

Concen: 1.757 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

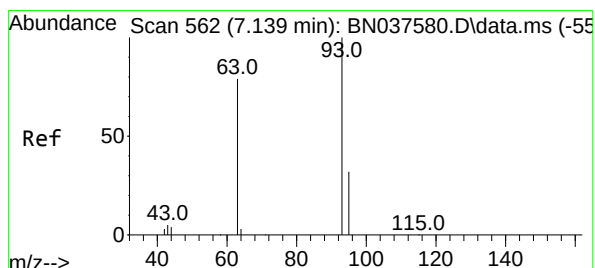
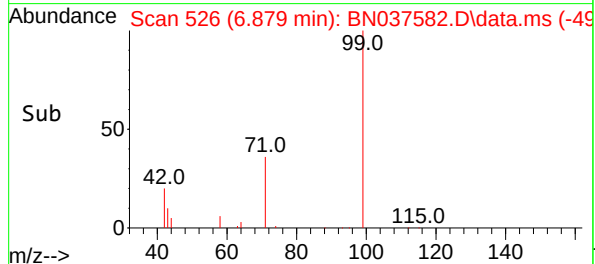
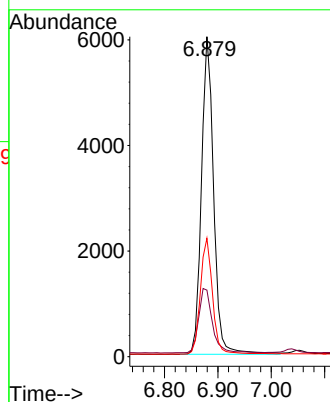
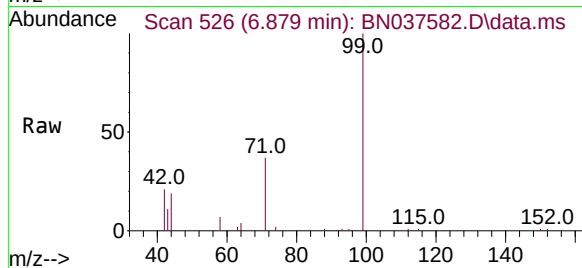
Tgt Ion: 99 Resp: 9580

Ion Ratio Lower Upper

99 100

42 22.9 18.5 27.7

71 36.8 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 1.660 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

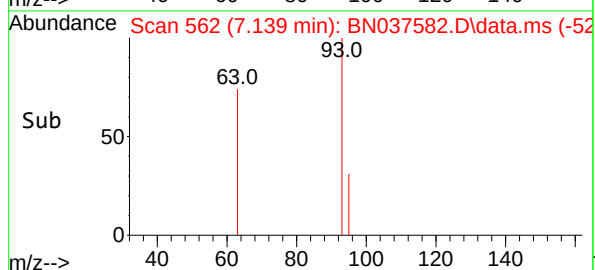
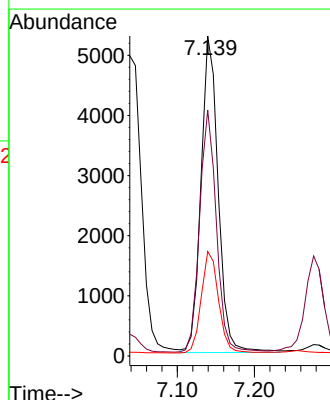
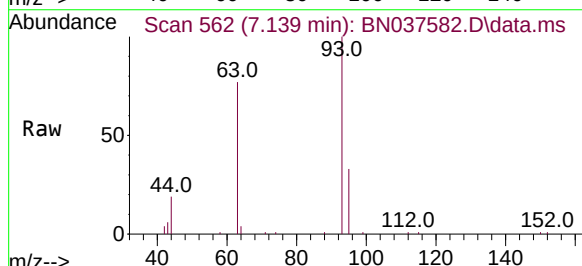
Tgt Ion: 93 Resp: 8159

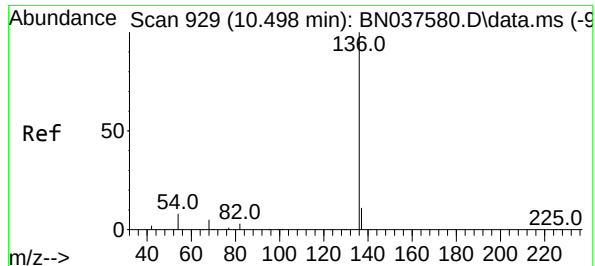
Ion Ratio Lower Upper

93 100

63 74.6 58.0 87.0

95 32.2 24.9 37.3

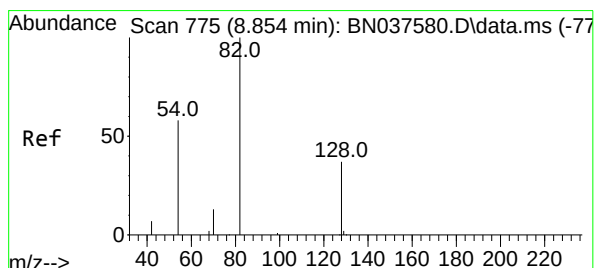
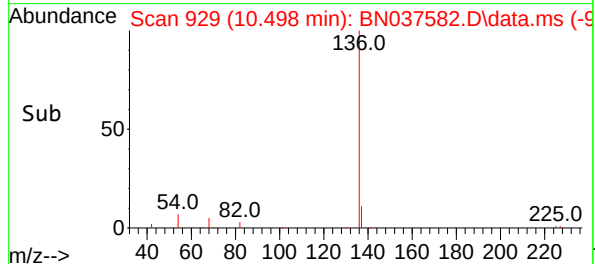
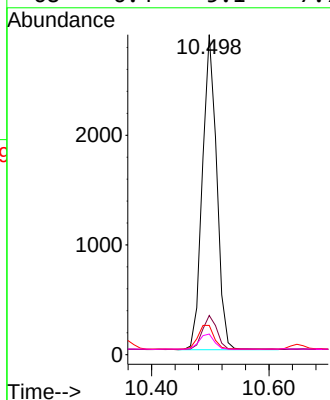
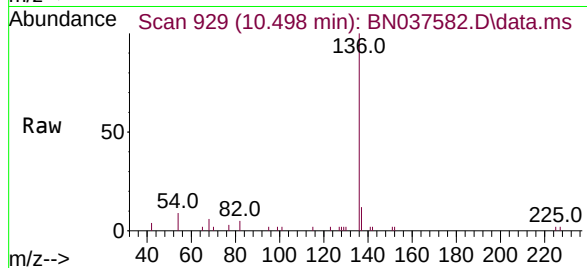




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

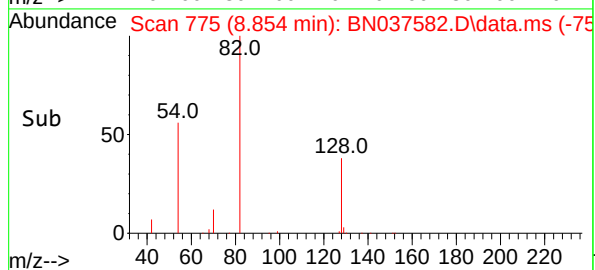
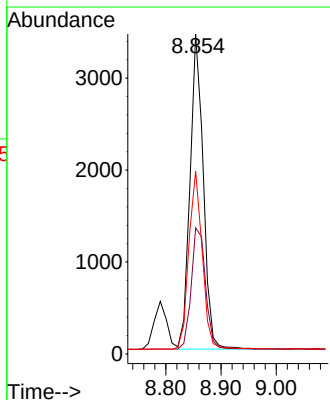
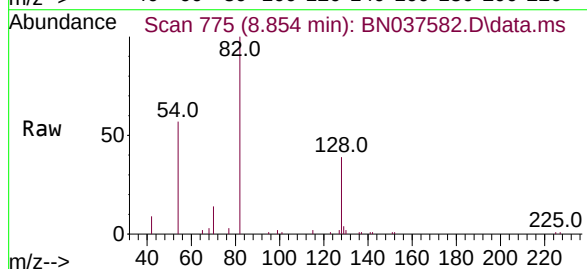
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

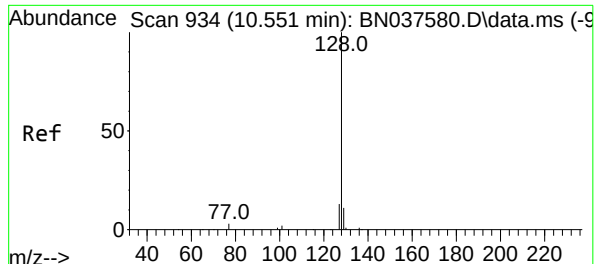
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4868  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.2  | 9.5   | 14.3  |
| 54       | 9.1   | 7.3   | 10.9  |
| 68       | 6.4   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 1.658 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 5686  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 39.4  | 32.6  | 48.8  |
| 54       | 57.2  | 48.9  | 73.3  |





#9

Naphthalene

Concen: 1.636 ng

RT: 10.552 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

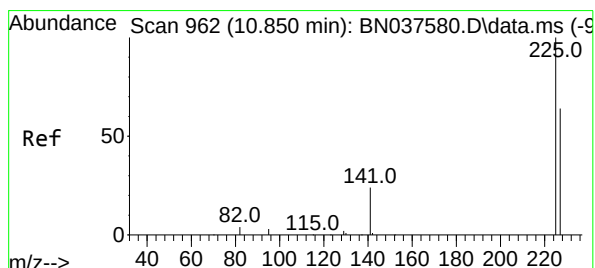
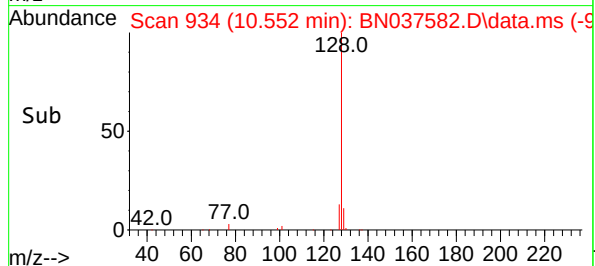
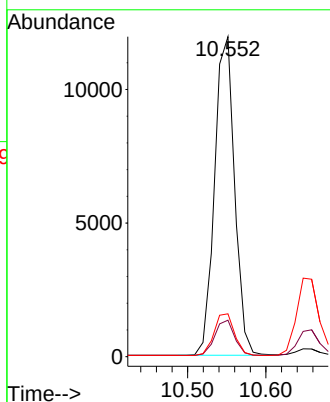
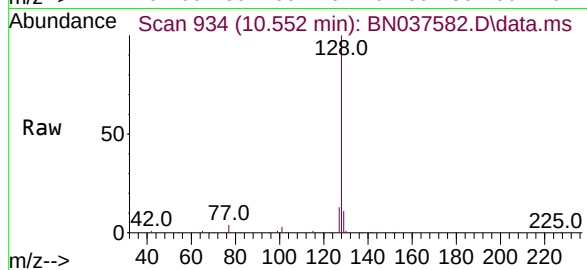
Tgt Ion:128 Resp: 21204

Ion Ratio Lower Upper

128 100

129 11.4 9.8 14.6

127 13.4 11.5 17.3



#10

Hexachlorobutadiene

Concen: 1.640 ng

RT: 10.851 min Scan# 962

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

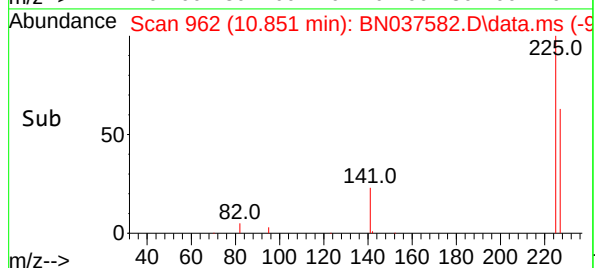
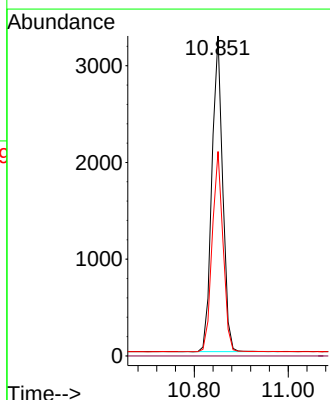
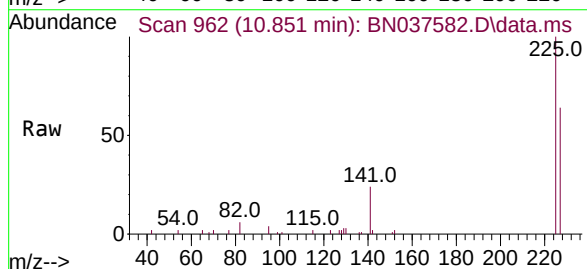
Tgt Ion:225 Resp: 5193

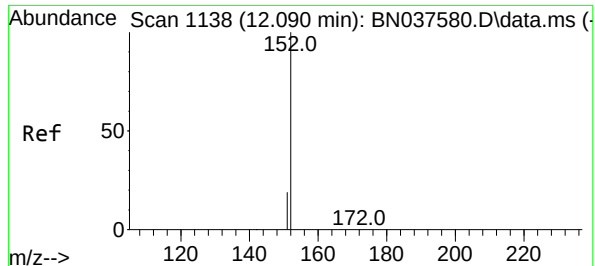
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 63.6 50.8 76.2

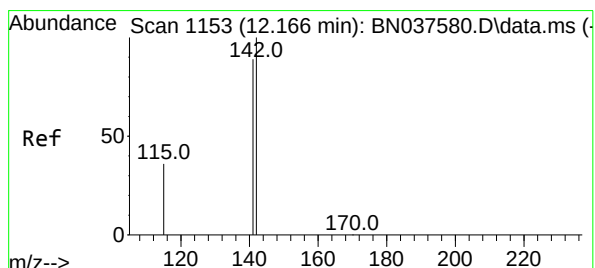
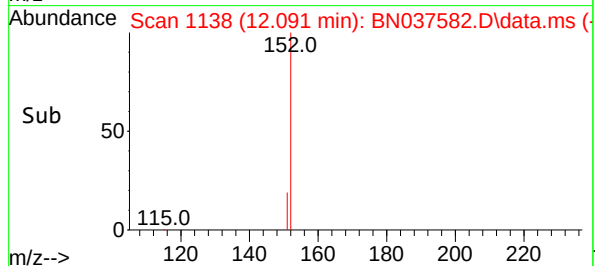
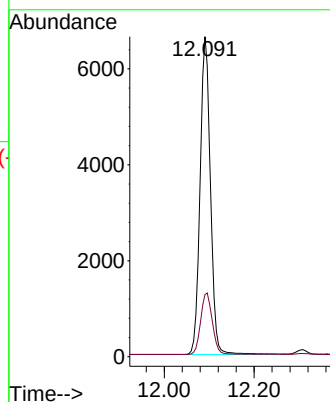
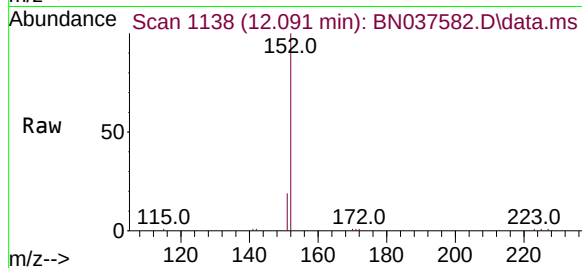




#11  
2-Methylnaphthalene-d10  
Concen: 1.597 ng  
RT: 12.091 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

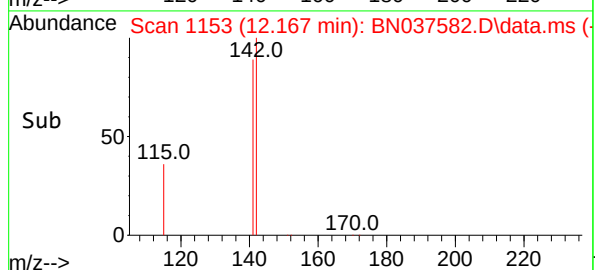
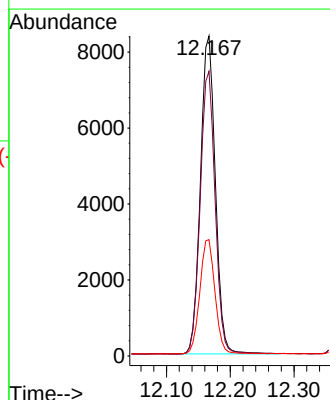
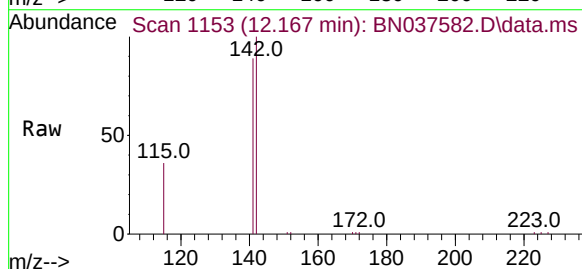
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

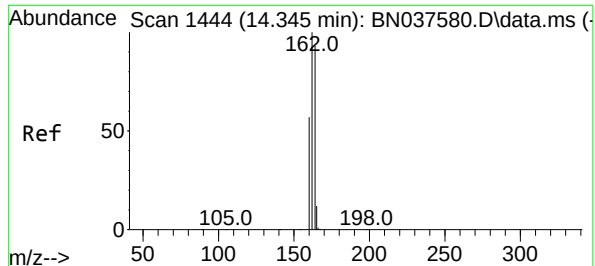
Tgt Ion:152 Resp: 10567  
Ion Ratio Lower Upper  
152 100  
151 21.8 17.3 25.9



#12  
2-Methylnaphthalene  
Concen: 1.679 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

Tgt Ion:142 Resp: 13647  
Ion Ratio Lower Upper  
142 100  
141 88.9 71.4 107.0  
115 36.4 30.2 45.4

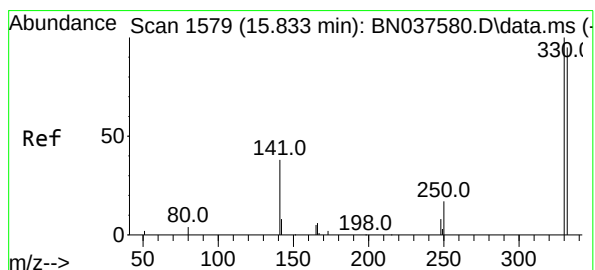
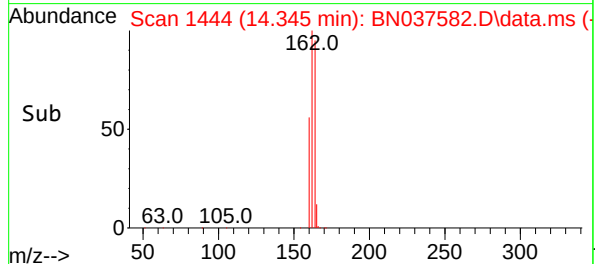
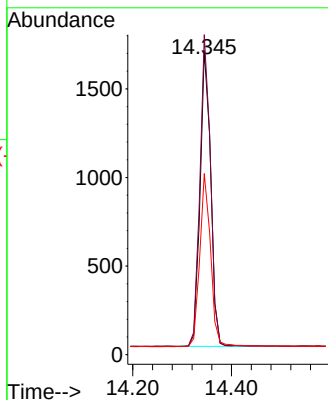
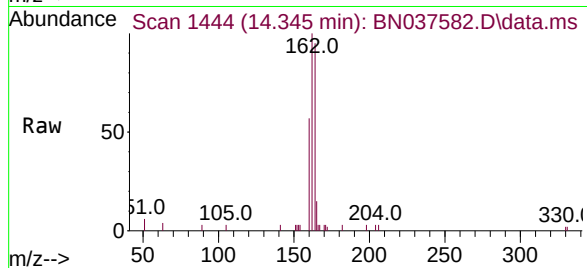




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

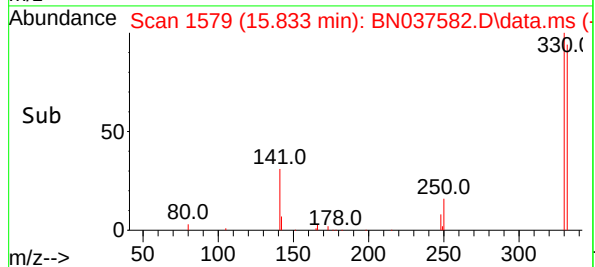
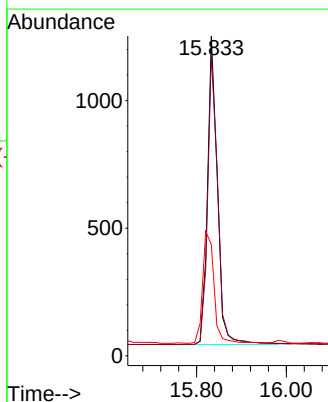
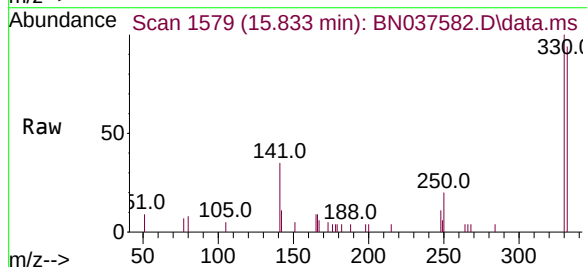
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

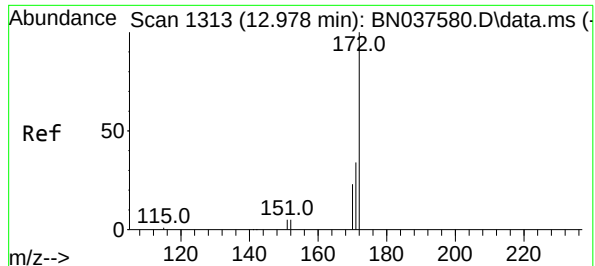
| Tgt Ion | 164   | Resp: | 2499  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 164     | 100   |       |       |
| 162     | 105.2 | 85.5  | 128.3 |
| 160     | 59.6  | 49.5  | 74.3  |



#14  
2,4,6-Tribromophenol  
Concen: 1.693 ng  
RT: 15.833 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

| Tgt Ion | 330   | Resp: | 1852  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 330     | 100   |       |       |
| 332     | 96.2  | 77.4  | 116.0 |
| 141     | 41.4  | 30.9  | 46.3  |

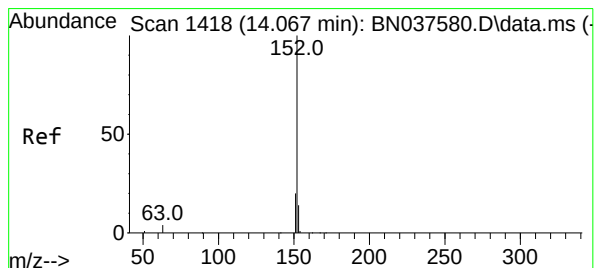
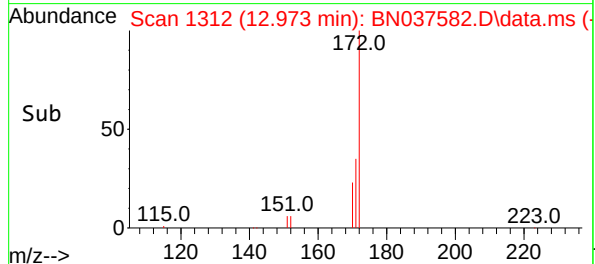
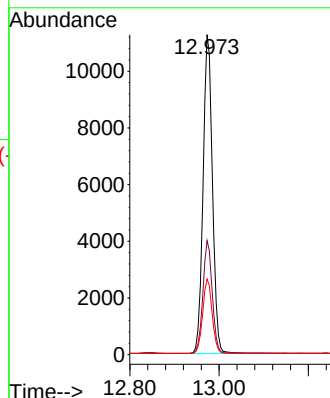
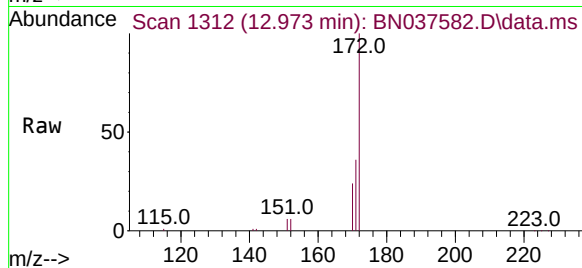




#15  
2-Fluorobiphenyl  
Concen: 1.619 ng  
RT: 12.973 min Scan# 1312  
Delta R.T. -0.005 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

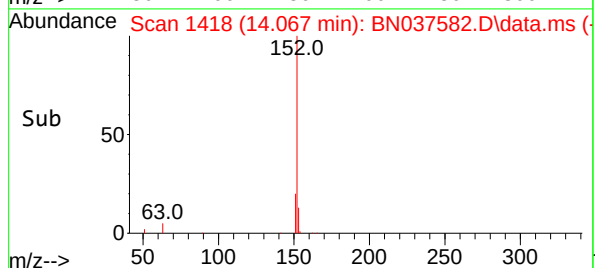
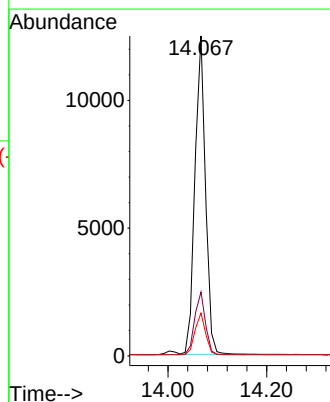
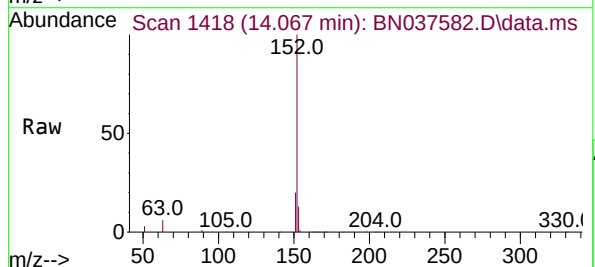
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

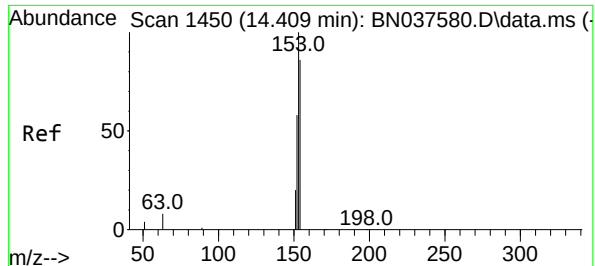
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 28.2  | 42.4  |
| 170     | 23.7  | 19.2  | 28.8  |



#16  
Acenaphthylene  
Concen: 1.651 ng  
RT: 14.067 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 20.0  | 16.1  | 24.1  |
| 153     | 13.0  | 10.7  | 16.1  |

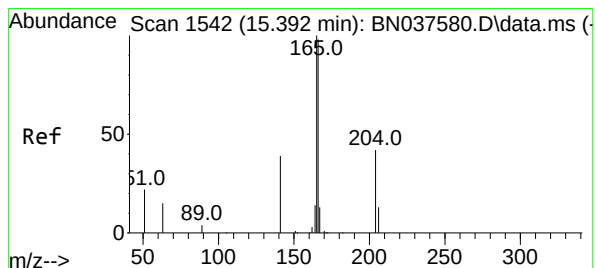
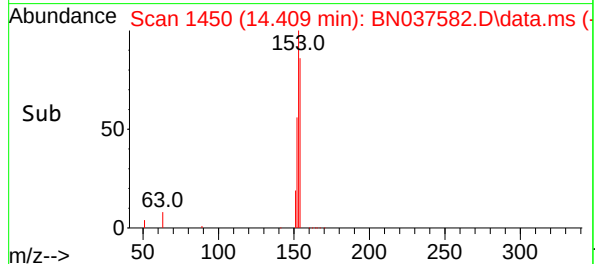
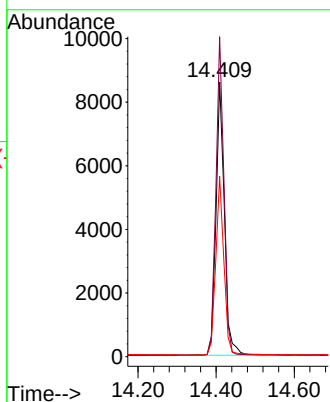
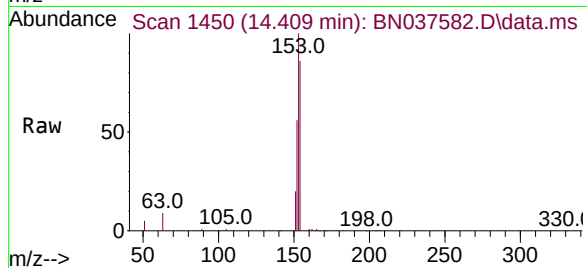




#17  
Acenaphthene  
Concen: 1.682 ng  
RT: 14.409 min Scan# 1450  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

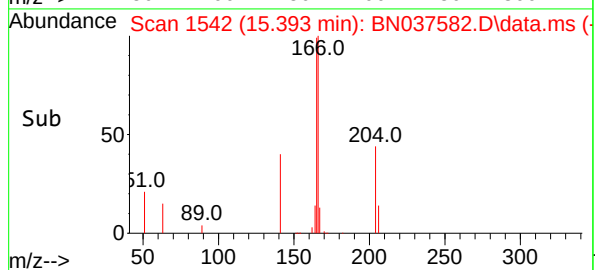
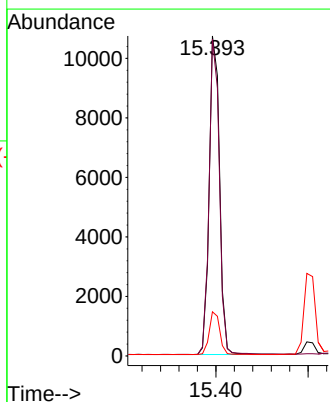
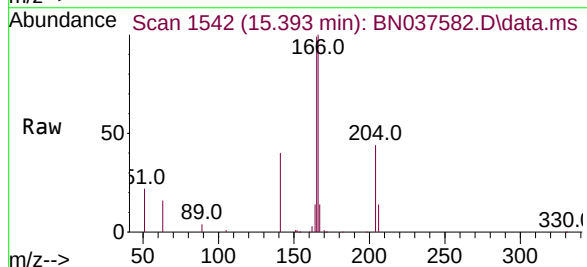
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

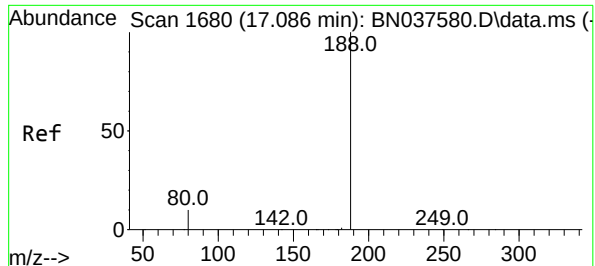
Tgt Ion:154 Resp: 12820  
Ion Ratio Lower Upper  
154 100  
153 110.6 90.6 135.8  
152 63.8 54.9 82.3



#18  
Fluorene  
Concen: 1.691 ng  
RT: 15.393 min Scan# 1542  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

Tgt Ion:166 Resp: 16858  
Ion Ratio Lower Upper  
166 100  
165 99.0 78.9 118.3  
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

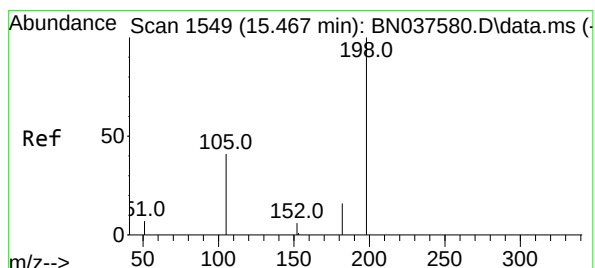
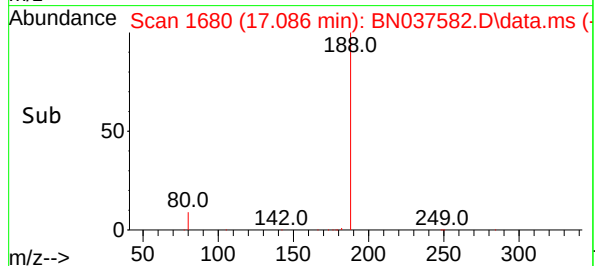
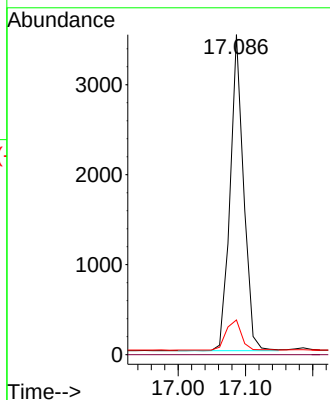
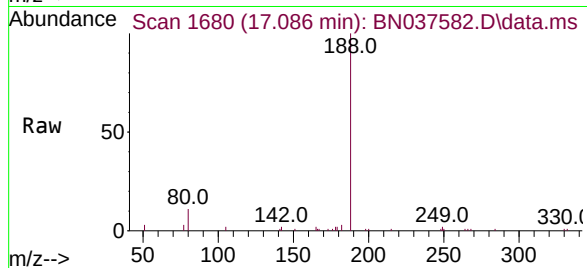
Tgt Ion:188 Resp: 4868

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 1.517 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

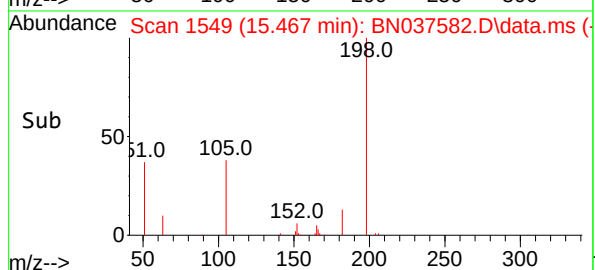
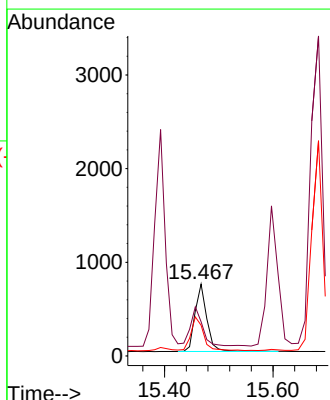
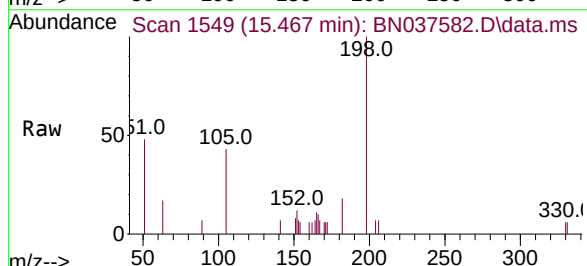
Tgt Ion:198 Resp: 1182

Ion Ratio Lower Upper

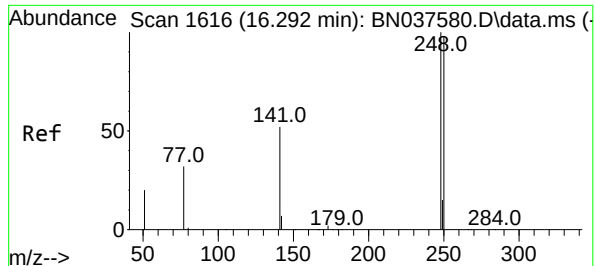
198 100

51 47.6 81.0 121.6#

105 42.8 52.5 78.7#



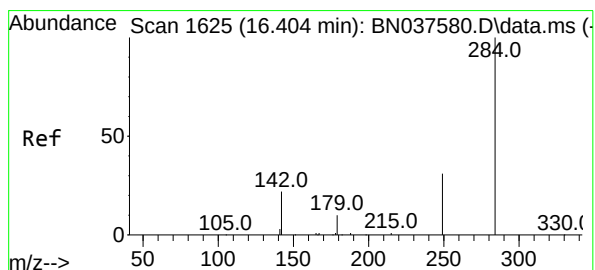
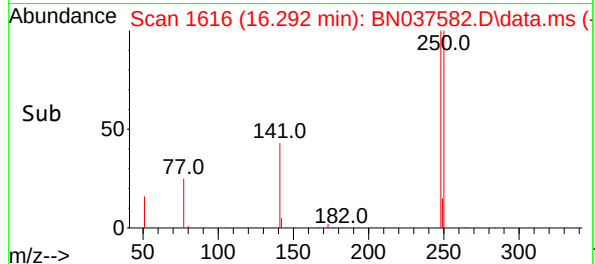
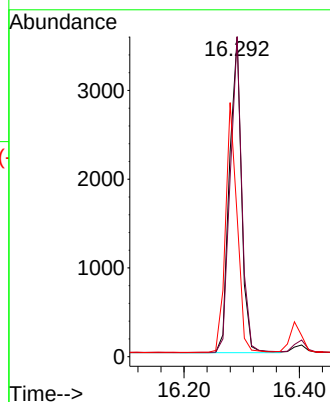
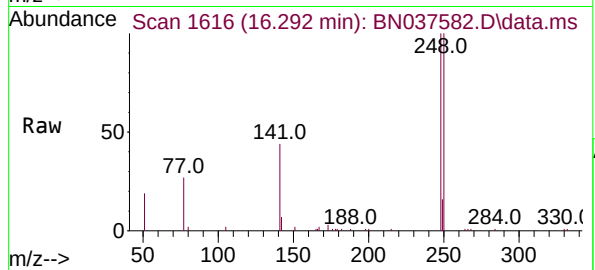




#21  
4-Bromophenyl-phenylether  
Concen: 1.686 ng  
RT: 16.292 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

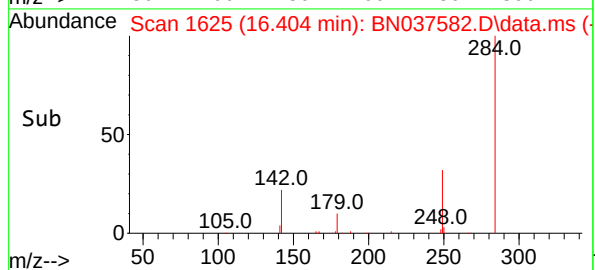
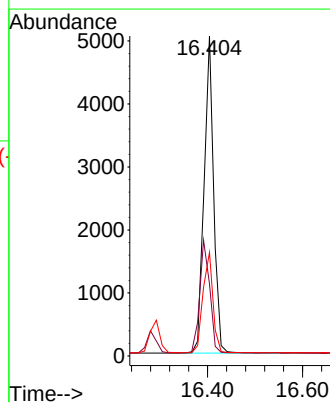
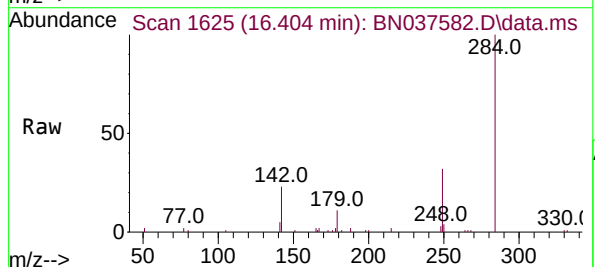
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

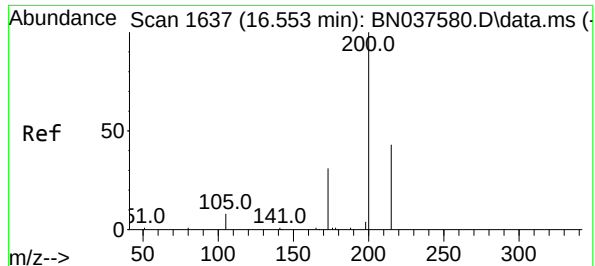
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 100.1 | 78.6  | 118.0 |
| 141     | 43.9  | 43.7  | 65.5  |



#22  
Hexachlorobenzene  
Concen: 1.633 ng  
RT: 16.404 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 37.2  | 29.8  | 44.6  |
| 249     | 33.1  | 26.0  | 39.0  |





#23

Atrazine

Concen: 1.803 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

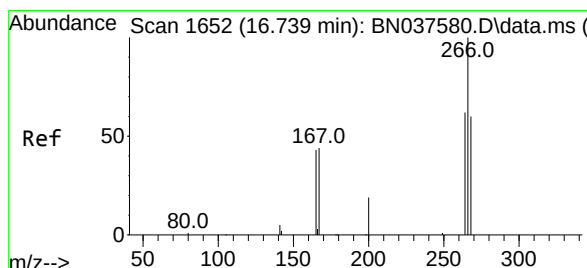
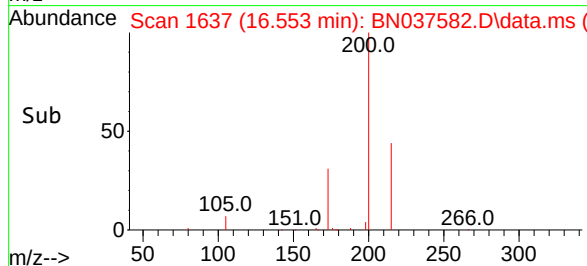
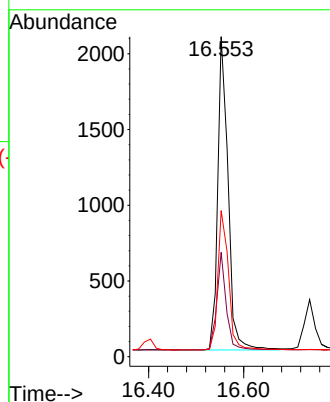
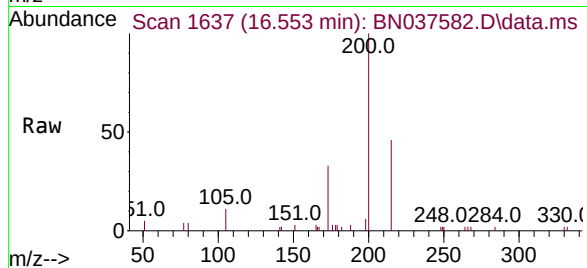
Tgt Ion:200 Resp: 3118

Ion Ratio Lower Upper

200 100

173 32.6 31.0 46.4

215 45.7 39.4 59.0



#24

Pentachlorophenol

Concen: 1.775 ng

RT: 16.739 min Scan# 1652

Delta R.T. -0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

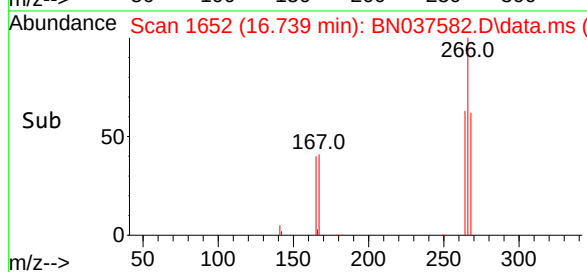
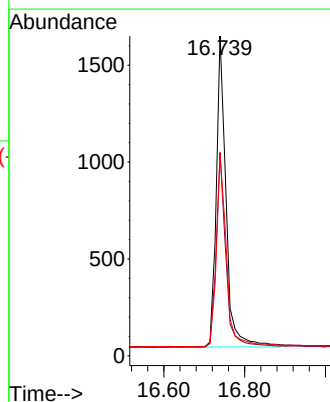
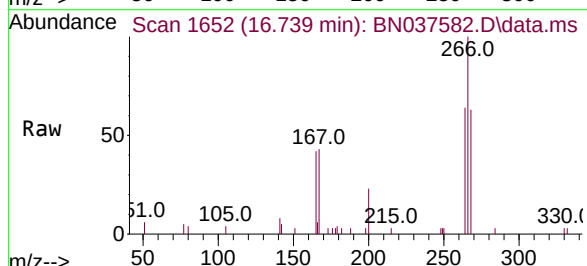
Tgt Ion:266 Resp: 2704

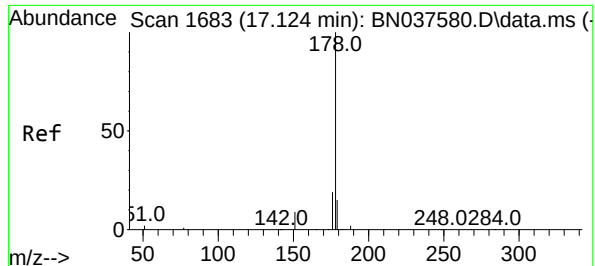
Ion Ratio Lower Upper

266 100

264 62.2 49.6 74.4

268 63.5 49.2 73.8

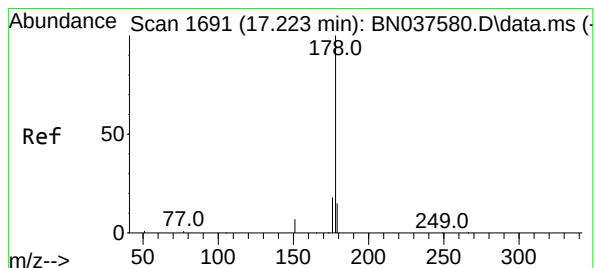
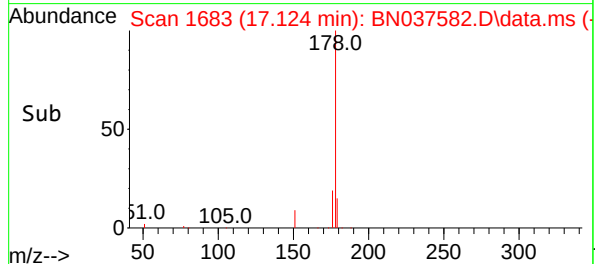
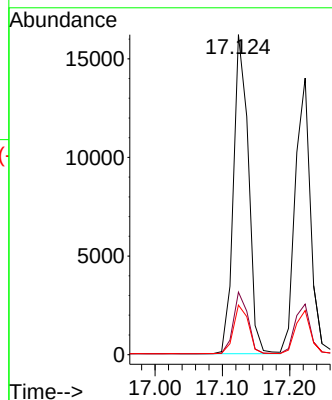
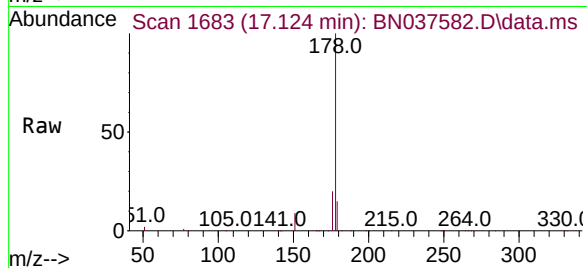




#25  
Phenanthrene  
Concen: 1.685 ng  
RT: 17.124 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

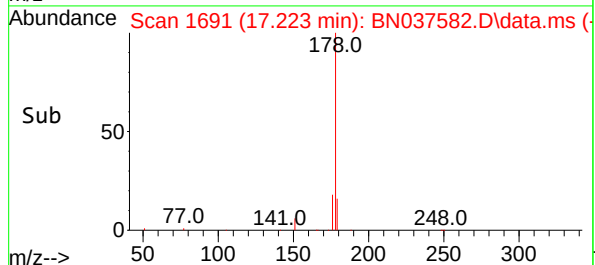
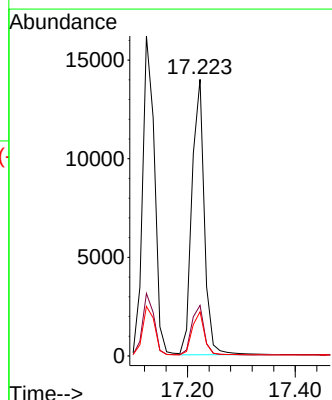
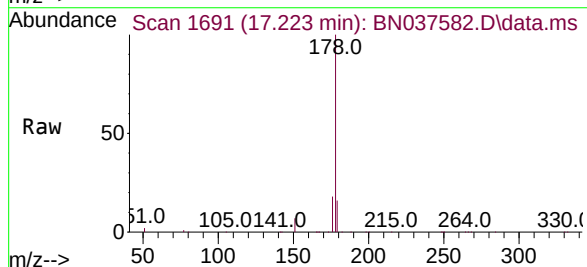
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

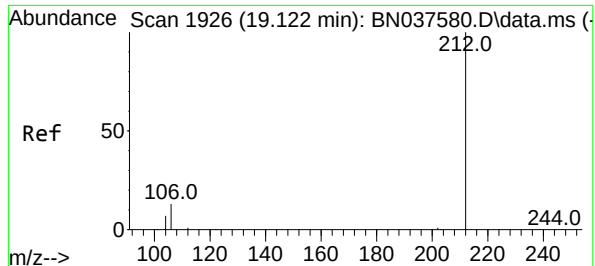
Tgt Ion:178 Resp: 24938  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 1.701 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

Tgt Ion:178 Resp: 22287  
Ion Ratio Lower Upper  
178 100  
176 18.3 14.7 22.1  
179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.597 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

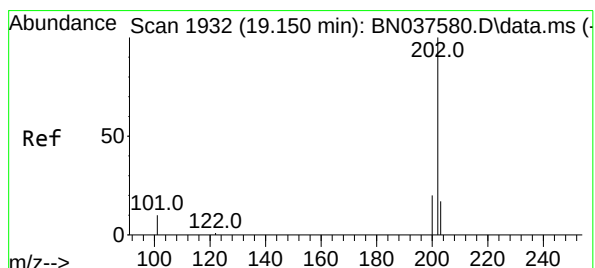
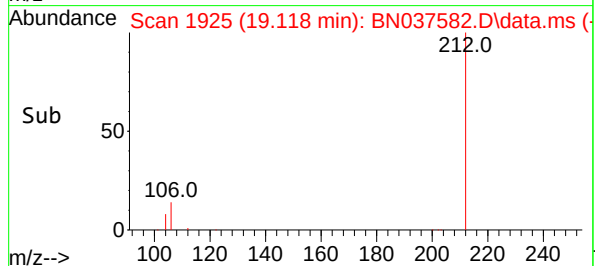
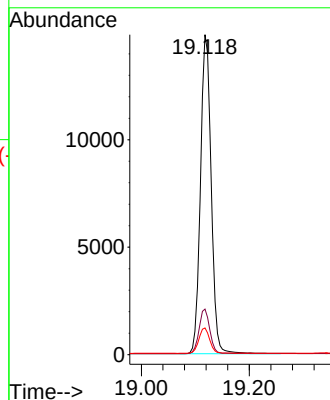
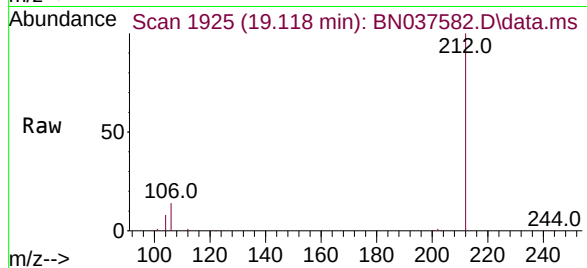
Tgt Ion:212 Resp: 20450

Ion Ratio Lower Upper

212 100

106 14.0 11.5 17.3

104 8.0 6.6 9.8



#28

Fluoranthene

Concen: 1.721 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

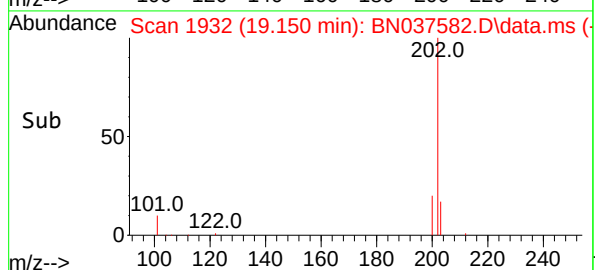
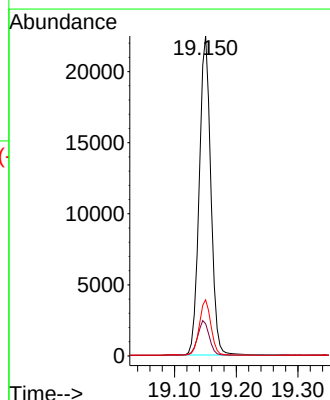
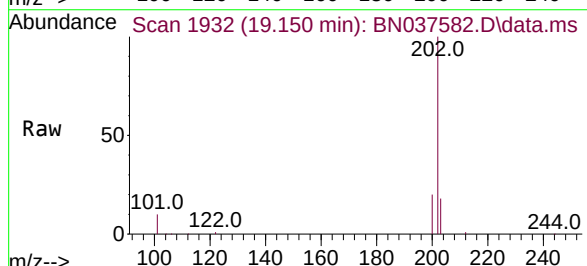
Tgt Ion:202 Resp: 29263

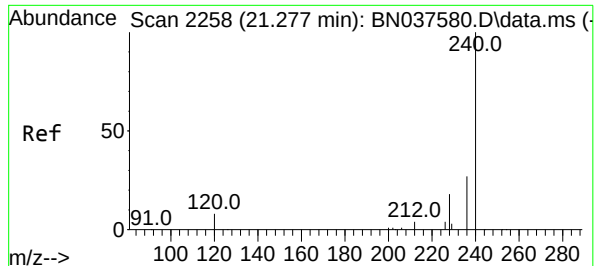
Ion Ratio Lower Upper

202 100

101 11.1 9.0 13.6

203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

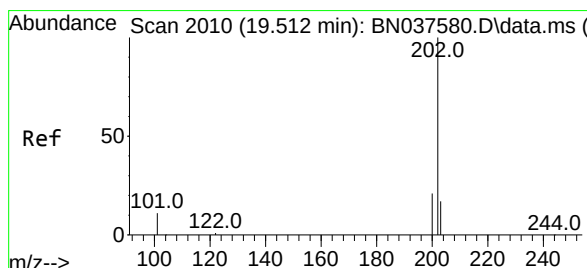
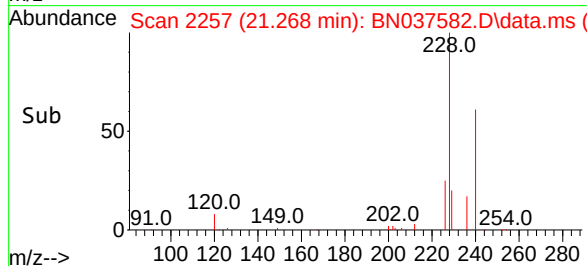
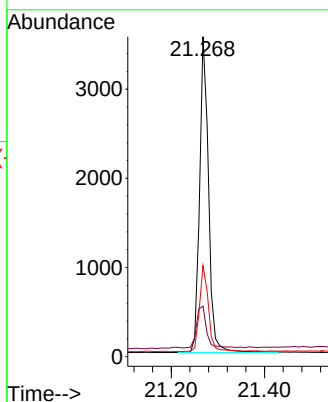
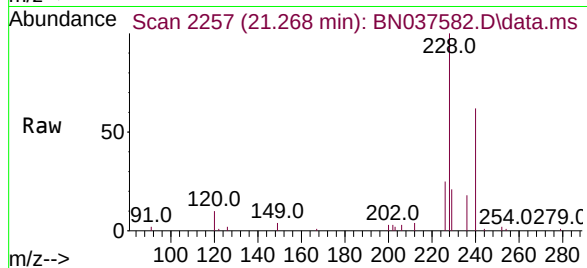
Tgt Ion:240 Resp: 4728

Ion Ratio Lower Upper

240 100

120 15.8 8.9 13.3#

236 28.5 22.6 33.8



#30

Pyrene

Concen: 1.607 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

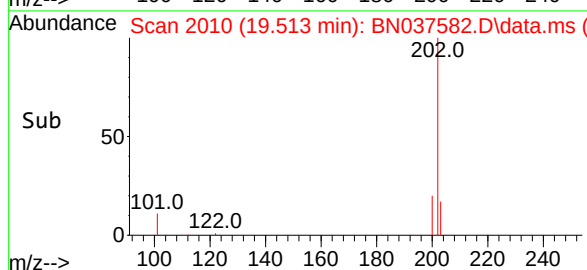
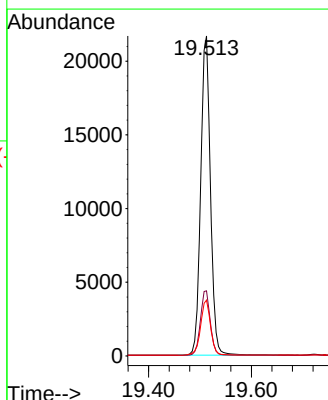
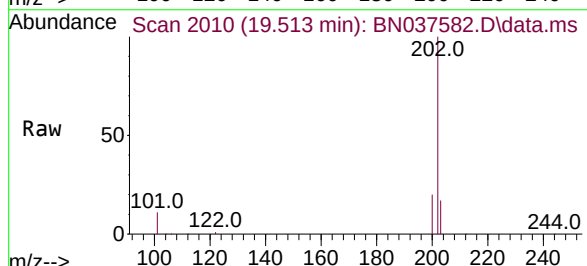
Tgt Ion:202 Resp: 28406

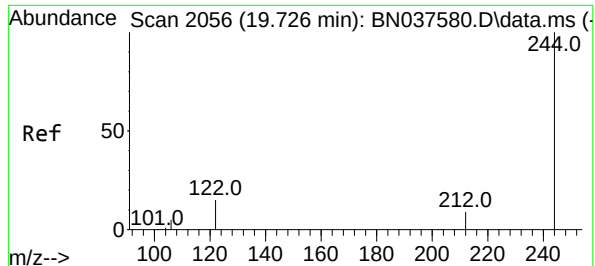
Ion Ratio Lower Upper

202 100

200 20.5 16.6 25.0

203 17.6 14.3 21.5

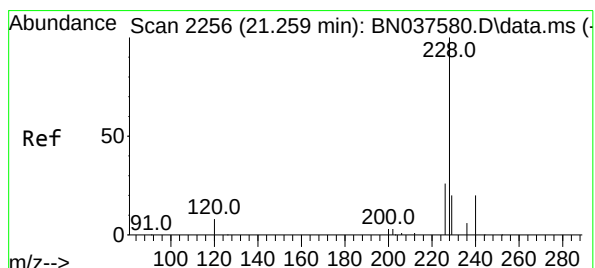
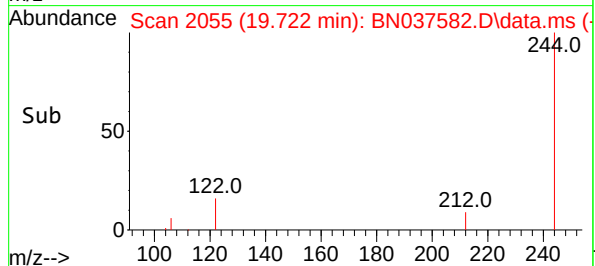
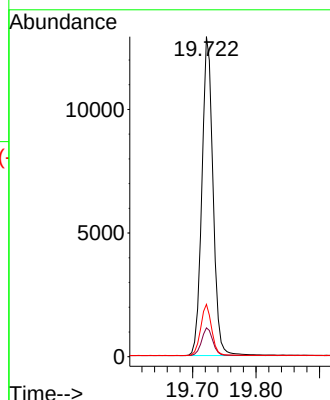
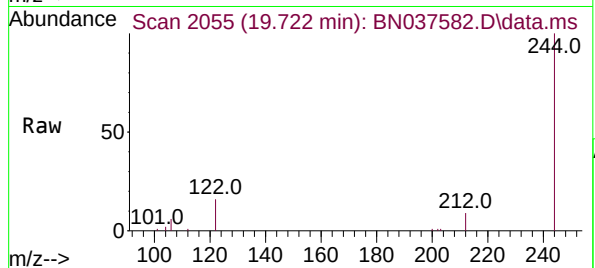




#31  
Terphenyl-d14  
Concen: 1.620 ng  
RT: 19.722 min Scan# 2055  
Delta R.T. -0.004 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

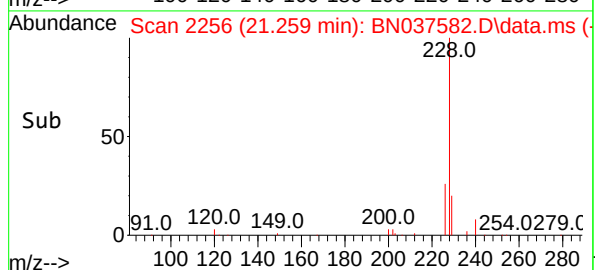
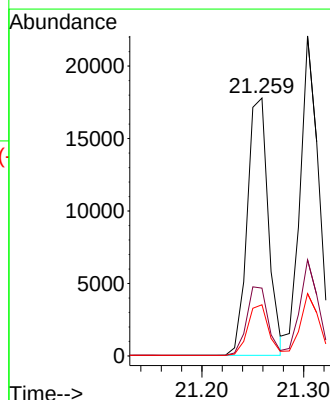
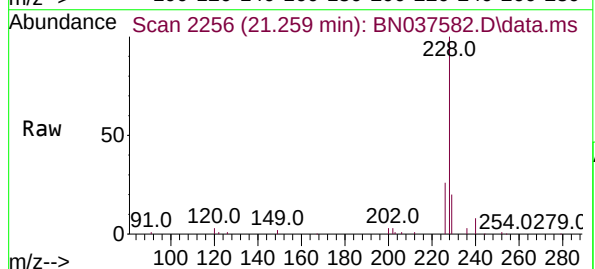
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

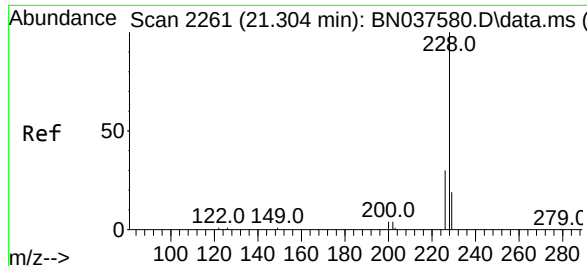
Tgt Ion:244 Resp: 15761  
Ion Ratio Lower Upper  
244 100  
212 9.0 8.2 12.2  
122 16.3 13.2 19.8



#32  
Benzo(a)anthracene  
Concen: 1.618 ng  
RT: 21.259 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: BN037582.D  
Acq: 12 Aug 2025 18:52

Tgt Ion:228 Resp: 25547  
Ion Ratio Lower Upper  
228 100  
226 26.3 21.5 32.3  
229 19.9 16.5 24.7





#33

Chrysene

Concen: 1.624 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

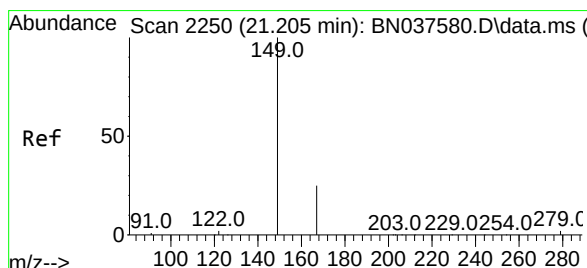
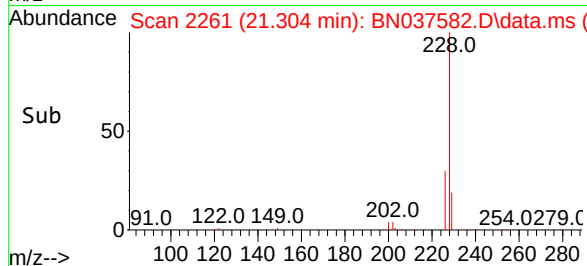
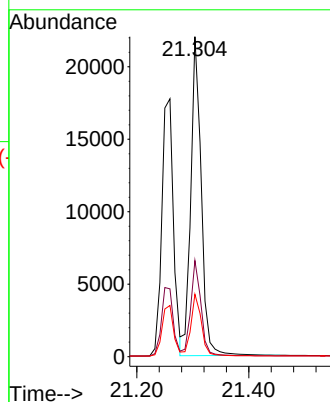
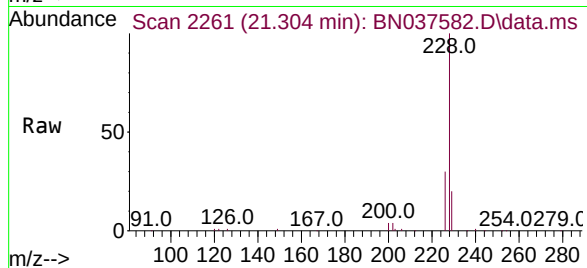
Tgt Ion:228 Resp: 28577

Ion Ratio Lower Upper

228 100

226 30.0 24.9 37.3

229 19.5 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.514 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

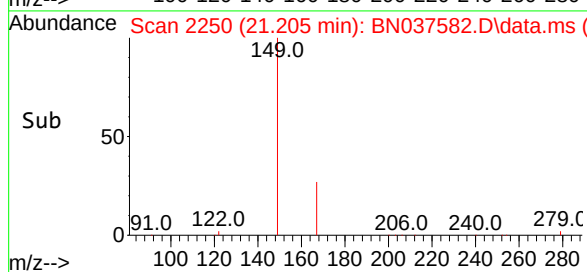
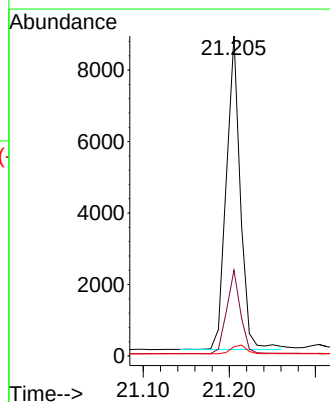
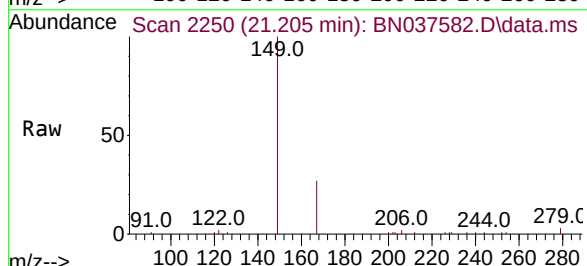
Tgt Ion:149 Resp: 9868

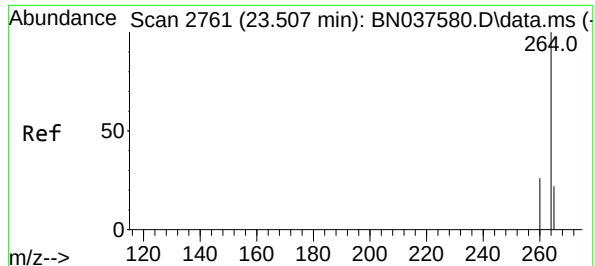
Ion Ratio Lower Upper

149 100

167 26.1 20.5 30.7

279 3.1 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.505 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037582.D

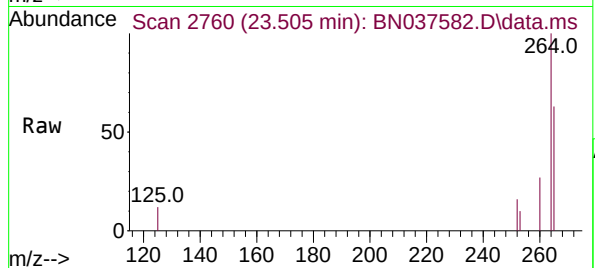
Acq: 12 Aug 2025 18:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



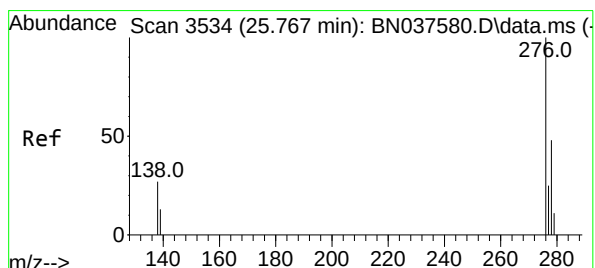
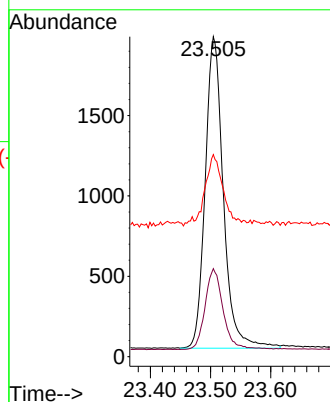
Tgt Ion:264 Resp: 4054

Ion Ratio Lower Upper

264 100

260 27.5 21.6 32.4

265 63.1 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.724 ng

RT: 25.768 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

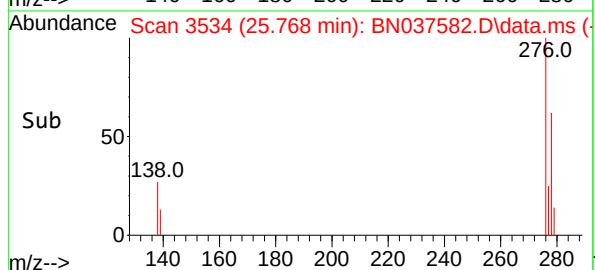
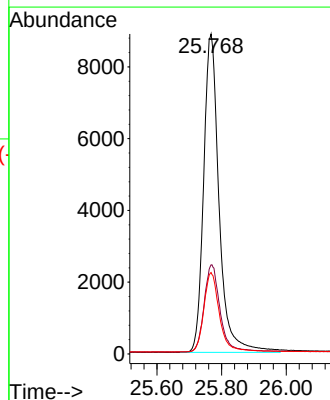
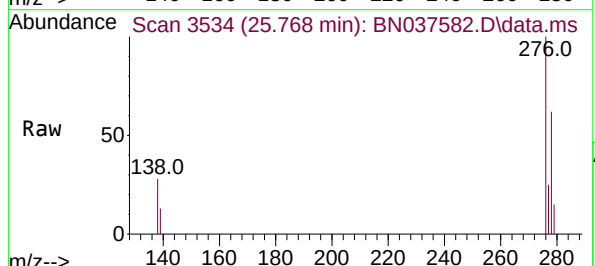
Tgt Ion:276 Resp: 29448

Ion Ratio Lower Upper

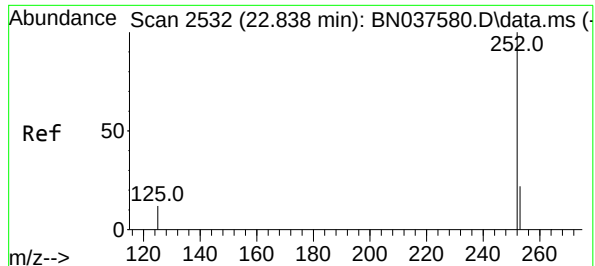
276 100

138 28.3 23.3 34.9

277 25.0 19.5 29.3







#37

Benzo(b)fluoranthene

Concen: 1.705 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037582.D

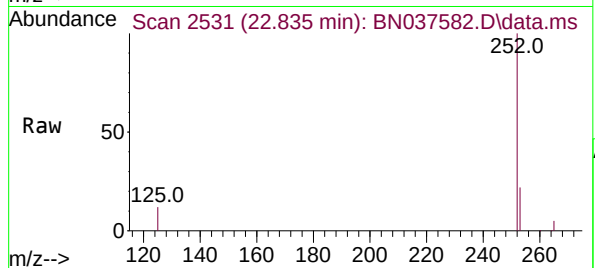
Acq: 12 Aug 2025 18:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



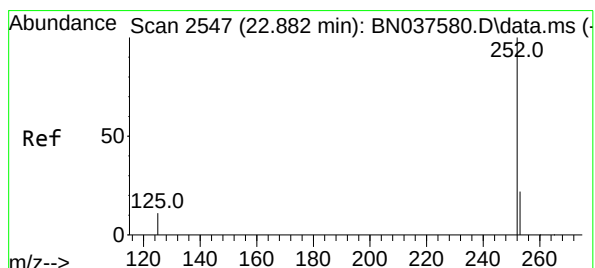
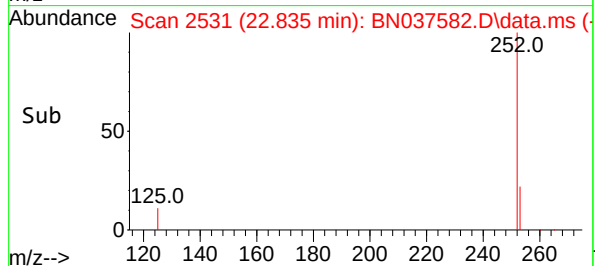
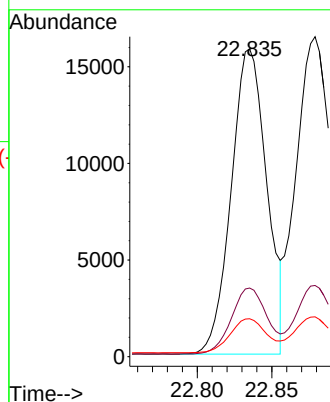
Tgt Ion:252 Resp: 26189

Ion Ratio Lower Upper

252 100

253 22.3 20.0 30.0

125 12.3 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 1.703 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

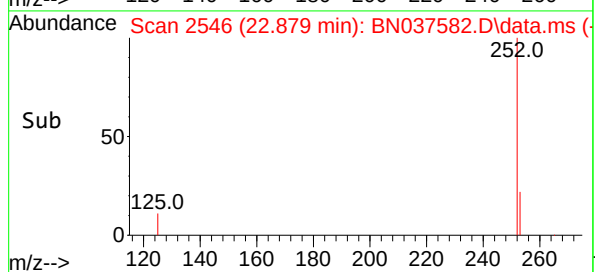
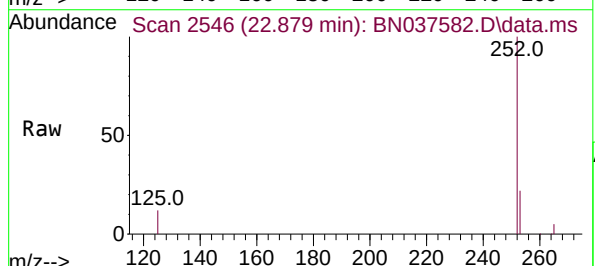
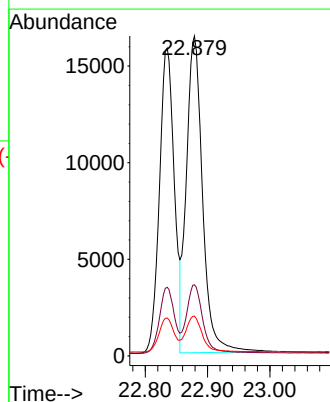
Tgt Ion:252 Resp: 29528

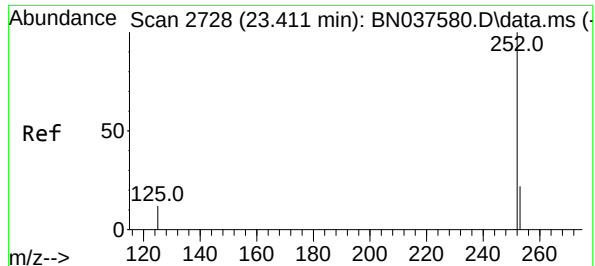
Ion Ratio Lower Upper

252 100

253 22.2 19.9 29.9

125 12.5 15.0 22.6#





#39

Benzo(a)pyrene

Concen: 1.683 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

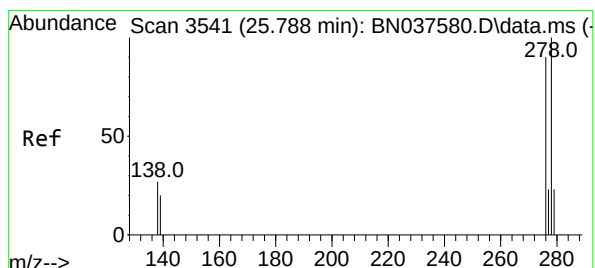
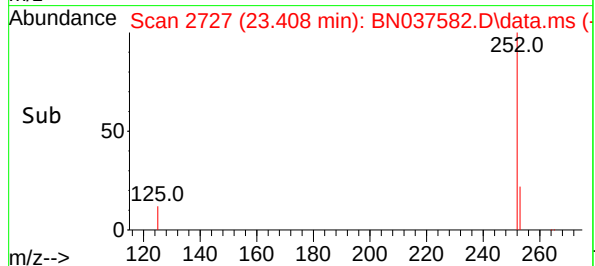
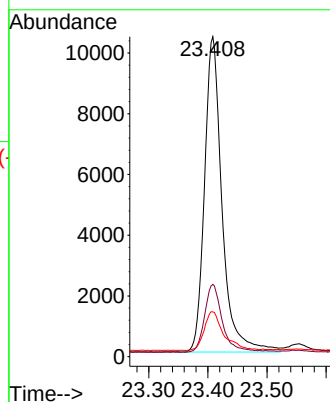
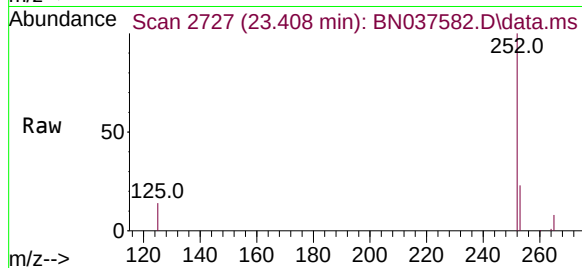
Tgt Ion:252 Resp: 21441

Ion Ratio Lower Upper

252 100

253 22.6 21.6 32.4

125 14.0 16.8 25.2#



#40

Dibenzo(a,h)anthracene

Concen: 1.761 ng

RT: 25.779 min Scan# 3538

Delta R.T. -0.009 min

Lab File: BN037582.D

Acq: 12 Aug 2025 18:52

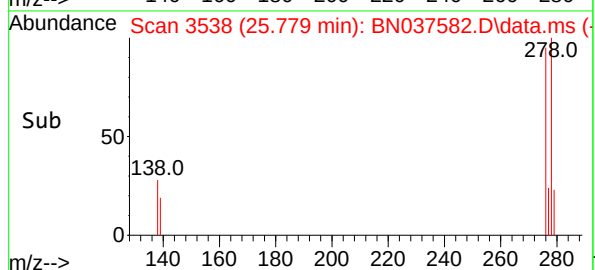
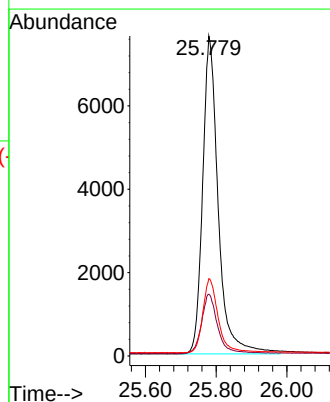
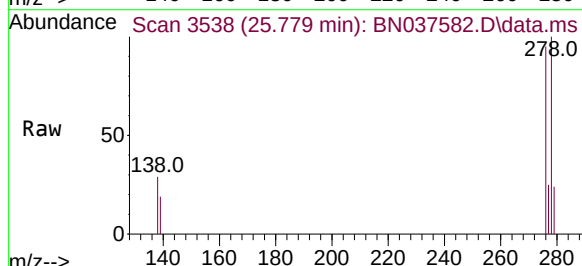
Tgt Ion:278 Resp: 23334

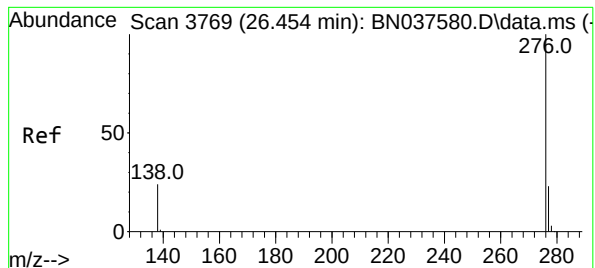
Ion Ratio Lower Upper

278 100

139 19.3 18.3 27.5

279 24.2 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 1.703 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037582.D

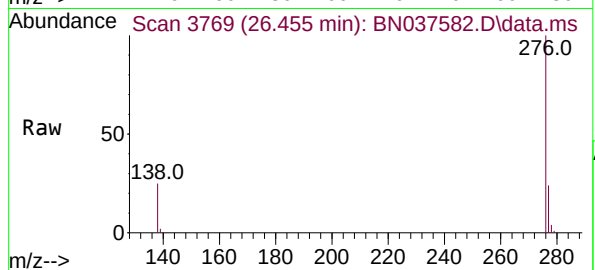
Acq: 12 Aug 2025 18:52

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



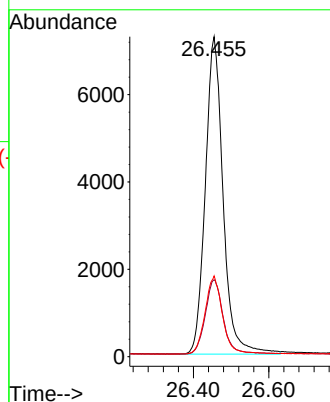
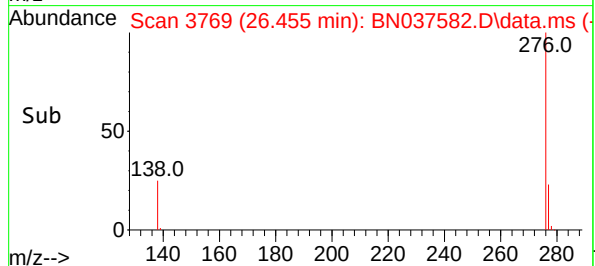
Tgt Ion: 276 Resp: 23781

Ion Ratio Lower Upper

276 100

277 24.1 21.0 31.4

138 25.2 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
 Data File : BN037583.D  
 Acq On : 12 Aug 2025 19:29  
 Operator : RC/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: Aug 13 04:49:35 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 04:46:02 2025  
 Response via : Initial Calibration

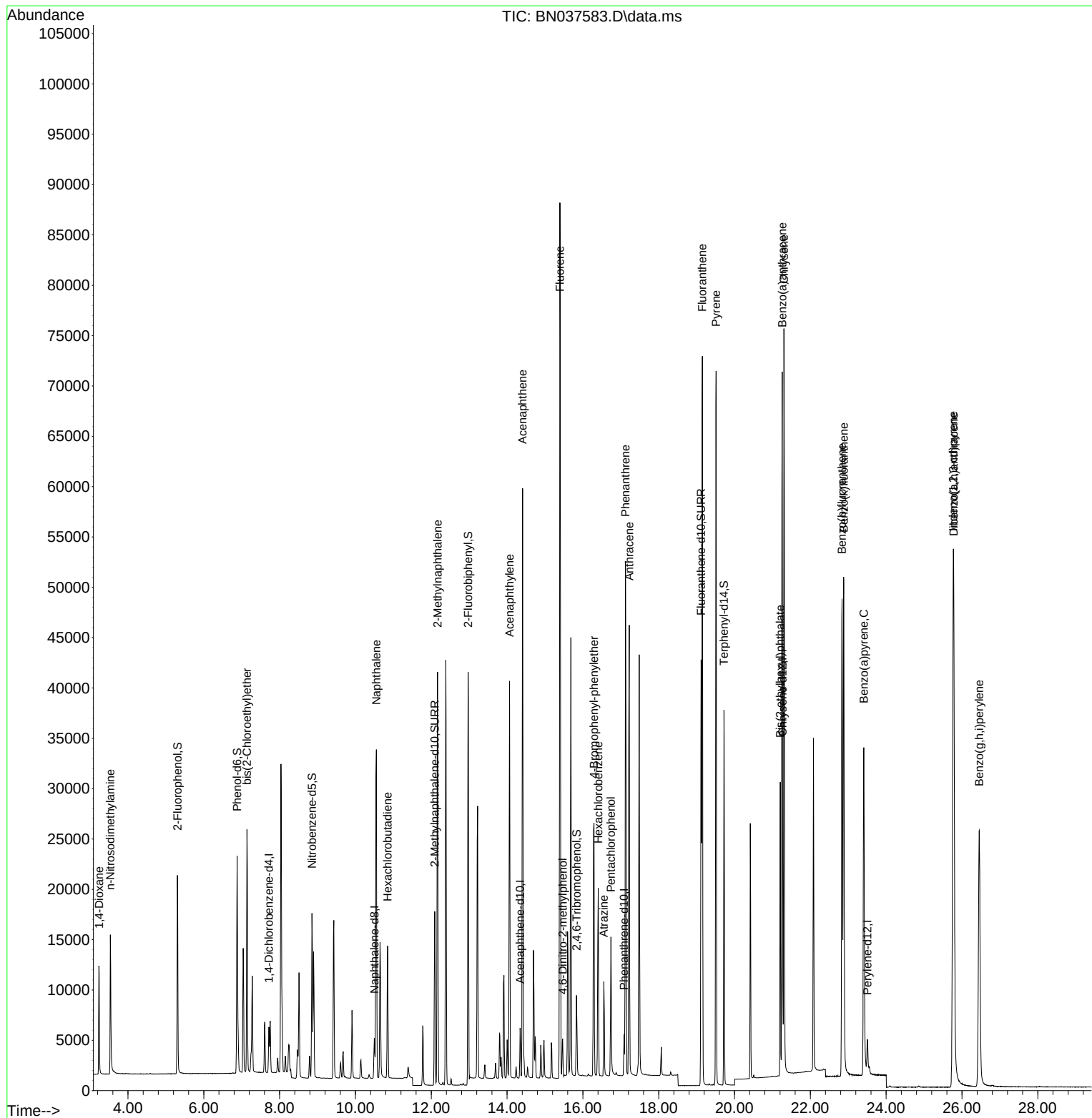
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 2075     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 5019     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2699     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.087 | 188  | 5200     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 5116     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.508 | 264  | 4411     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 15044    | 3.198 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 18546    | 3.276 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 12097    | 3.422 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.091 | 152  | 23211    | 3.402 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 4382     | 3.710 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 51634    | 3.308 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.118 | 212  | 46178    | 3.376 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.722 | 244  | 34892    | 3.315 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 6233     | 3.140 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.536  | 42   | 8352     | 3.292 | ng    | 97       |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 16734    | 3.280 | ng    | 98       |
| 9) Naphthalene                | 10.552 | 128  | 43991    | 3.292 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.851 | 225  | 10602    | 3.248 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.167 | 142  | 29337    | 3.501 | ng    | 98       |
| 16) Acenaphthylene            | 14.067 | 152  | 40122    | 3.316 | ng    | 99       |
| 17) Acenaphthene              | 14.409 | 154  | 27774    | 3.375 | ng    | 94       |
| 18) Fluorene                  | 15.393 | 166  | 36565    | 3.396 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.467 | 198  | 2906     | 3.257 | ng    | # 49     |
| 21) 4-Bromophenyl-phenylether | 16.292 | 248  | 11254    | 3.444 | ng    | # 92     |
| 22) Hexachlorobenzene         | 16.404 | 284  | 14747    | 3.183 | ng    | 100      |
| 23) Atrazine                  | 16.553 | 200  | 7330     | 3.967 | ng    | 94       |
| 24) Pentachlorophenol         | 16.739 | 266  | 6325     | 3.887 | ng    | 97       |
| 25) Phenanthrene              | 17.124 | 178  | 52784    | 3.339 | ng    | 100      |
| 26) Anthracene                | 17.223 | 178  | 49333    | 3.525 | ng    | 100      |
| 28) Fluoranthene              | 19.150 | 202  | 63765    | 3.511 | ng    | 100      |
| 30) Pyrene                    | 19.513 | 202  | 62227    | 3.254 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.259 | 228  | 59663    | 3.491 | ng    | 98       |
| 33) Chrysene                  | 21.304 | 228  | 60925    | 3.199 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 24265    | 3.440 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.768 | 276  | 66459    | 3.576 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.835 | 252  | 59086    | 3.535 | ng    | # 92     |
| 38) Benzo(k)fluoranthene      | 22.879 | 252  | 63422    | 3.363 | ng    | # 90     |
| 39) Benzo(a)pyrene            | 23.411 | 252  | 48767    | 3.518 | ng    | # 87     |
| 40) Dibenzo(a,h)anthracene    | 25.782 | 278  | 53486    | 3.709 | ng    | 92       |
| 41) Benzo(g,h,i)perylene      | 26.455 | 276  | 54068    | 3.558 | ng    | 95       |
| -----                         |        |      |          |       |       |          |

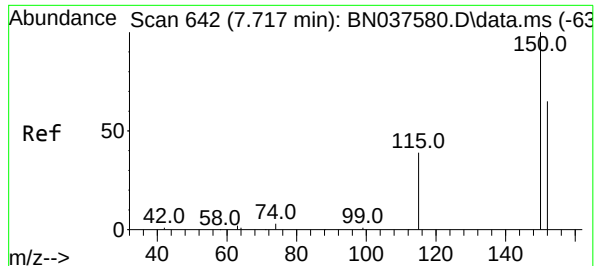
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
Data File : BN037583.D  
Acq On : 12 Aug 2025 19:29  
Operator : RC/JU  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

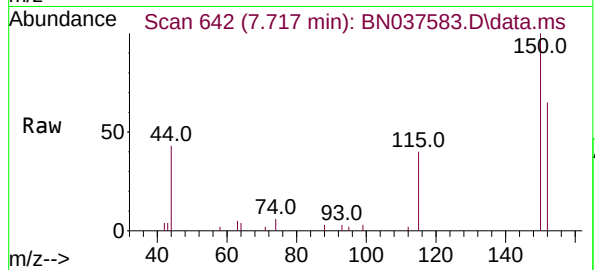
Quant Time: Aug 13 04:49:35 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 04:46:02 2025  
Response via : Initial Calibration



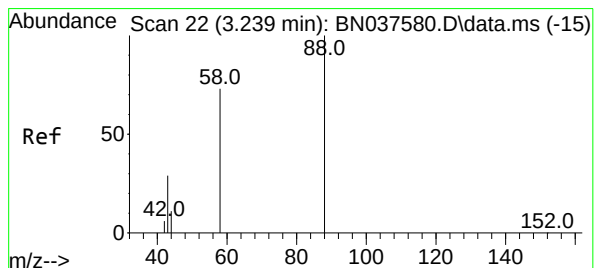
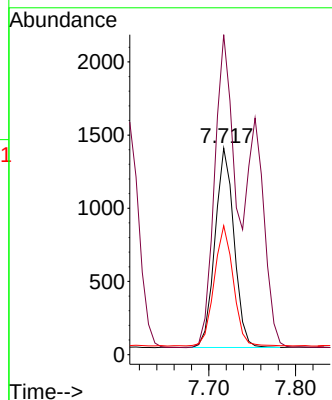
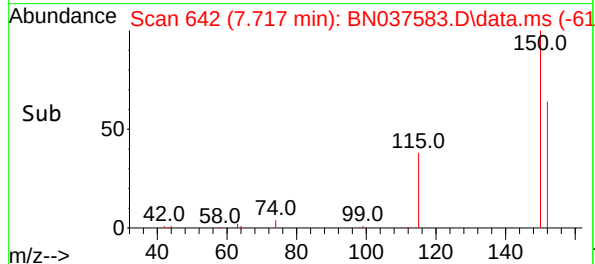


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

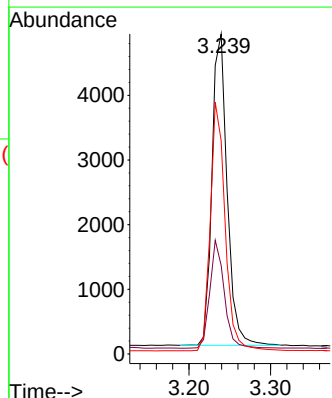
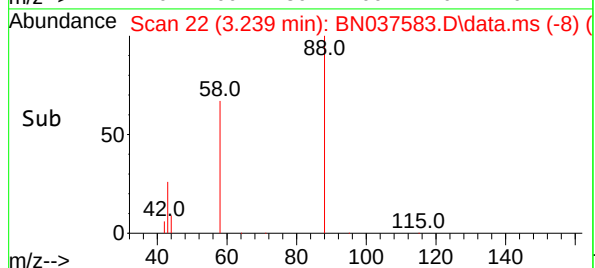
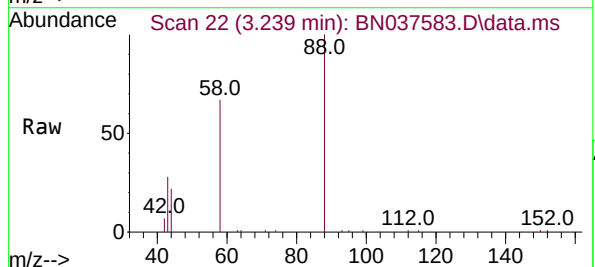


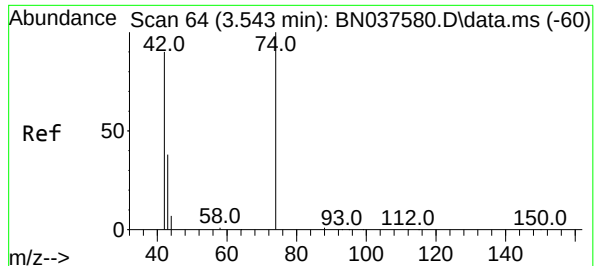
Tgt Ion: 152 Resp: 2075  
Ion Ratio Lower Upper  
152 100  
150 154.9 122.2 183.4  
115 62.4 49.8 74.6



#2  
1,4-Dioxane  
Concen: 3.140 ng  
RT: 3.239 min Scan# 22  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

Tgt Ion: 88 Resp: 6233  
Ion Ratio Lower Upper  
88 100  
43 32.9 25.8 38.6  
58 78.1 61.2 91.8

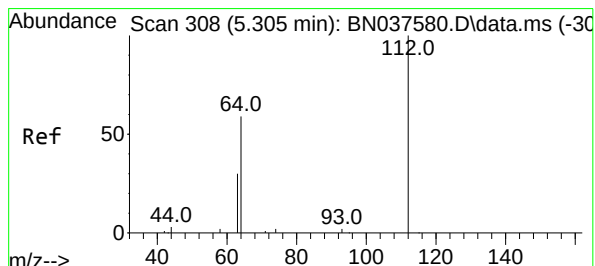
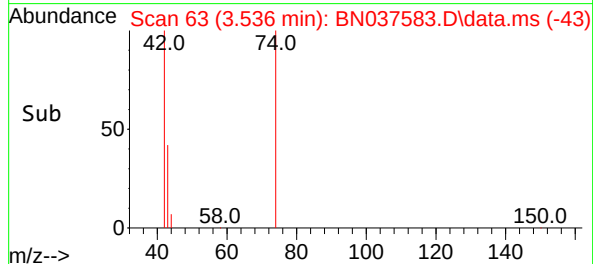
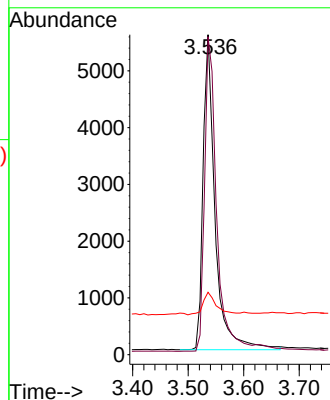
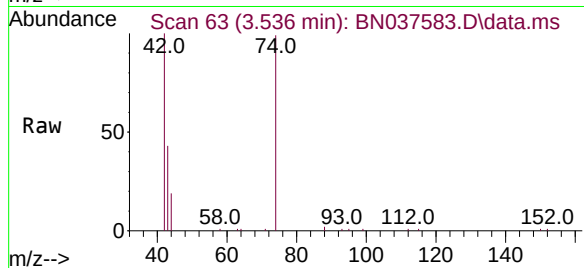




#3  
n-Nitrosodimethylamine  
Concen: 3.292 ng  
RT: 3.536 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

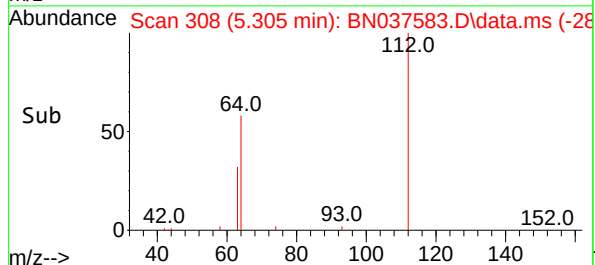
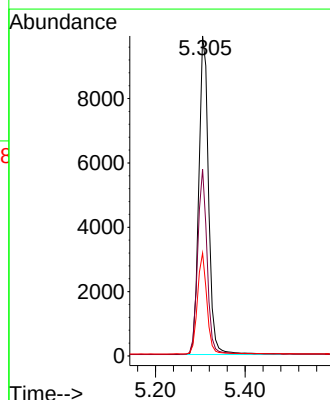
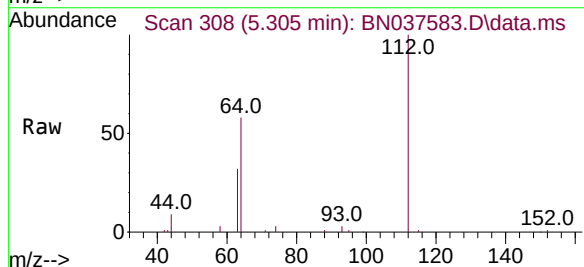
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

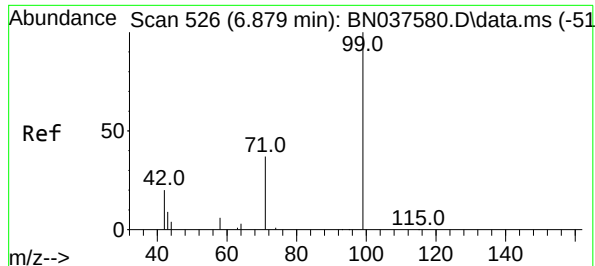
Tgt Ion: 42 Resp: 8352  
Ion Ratio Lower Upper  
42 100  
74 99.7 82.0 123.0  
44 8.0 7.9 11.9



#4  
2-Fluorophenol  
Concen: 3.198 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

Tgt Ion: 112 Resp: 15044  
Ion Ratio Lower Upper  
112 100  
64 56.5 44.9 67.3  
63 30.7 23.4 35.2





#5

Phenol-d6

Concen: 3.276 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

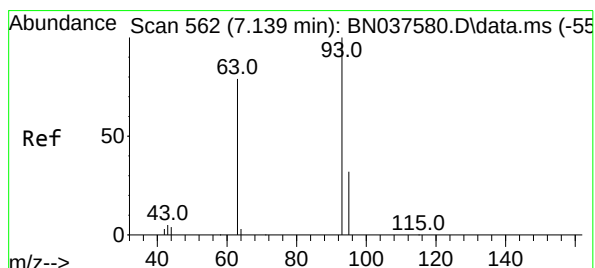
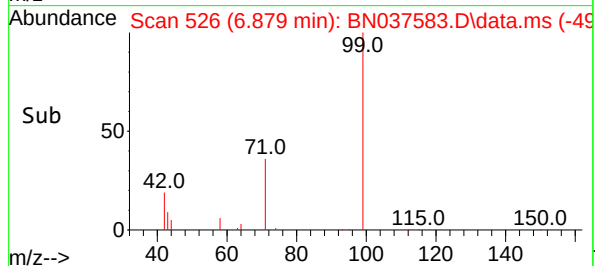
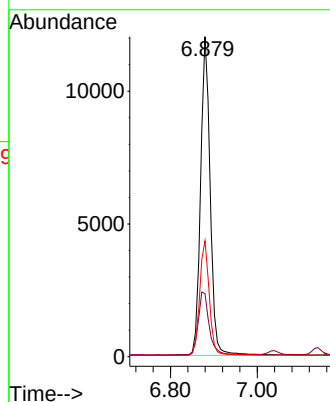
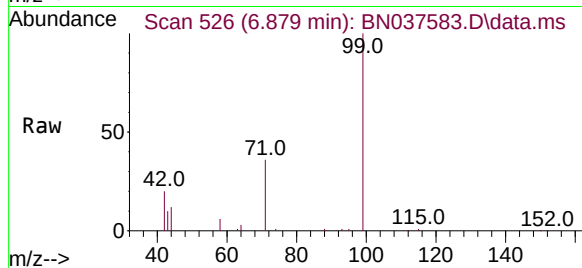
Tgt Ion: 99 Resp: 18546

Ion Ratio Lower Upper

99 100

42 22.2 18.5 27.7

71 36.1 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 3.280 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

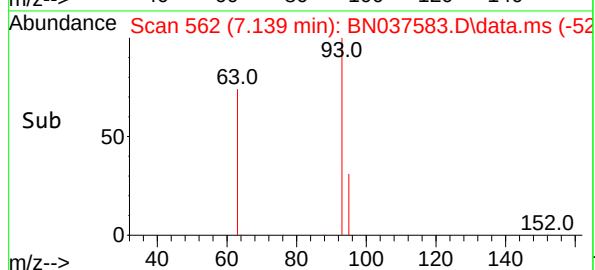
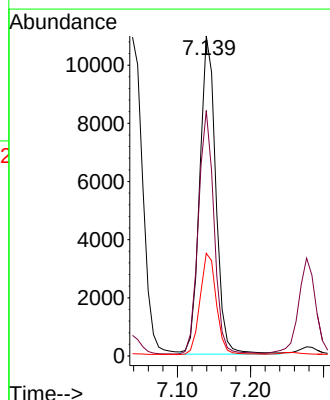
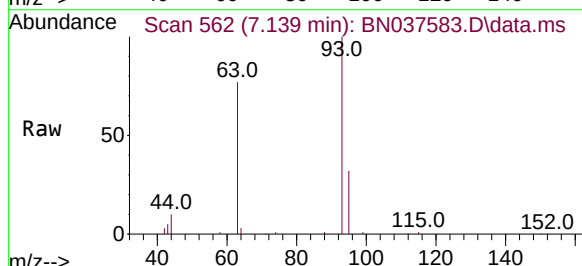
Tgt Ion: 93 Resp: 16734

Ion Ratio Lower Upper

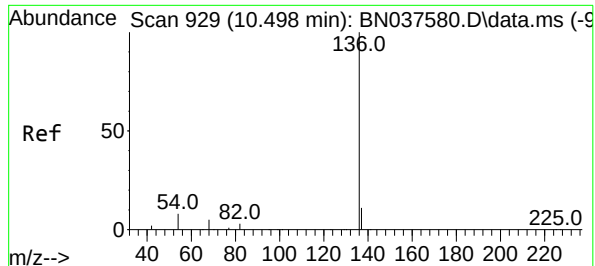
93 100

63 74.4 58.0 87.0

95 32.0 24.9 37.3



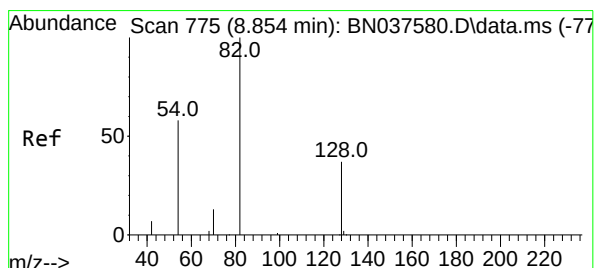
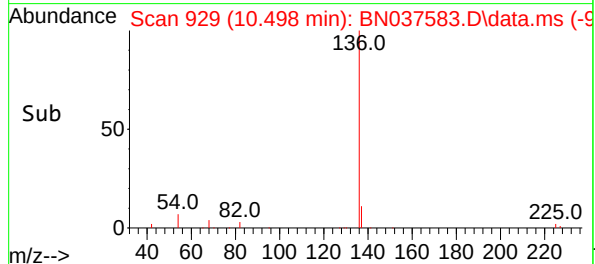
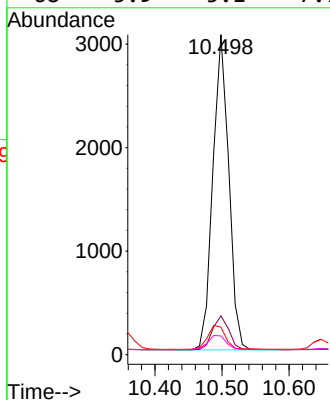
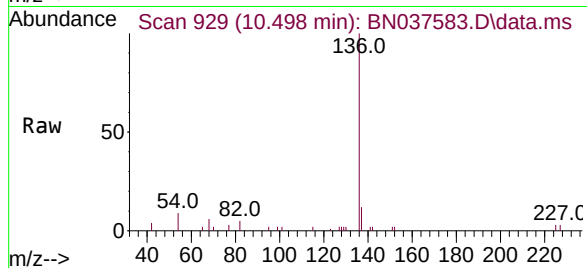




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

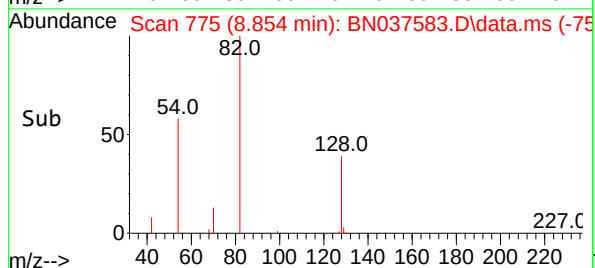
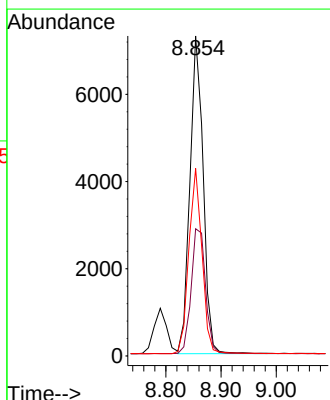
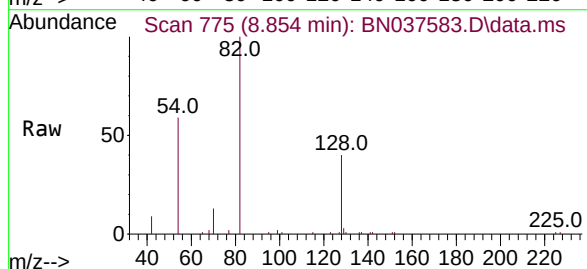
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

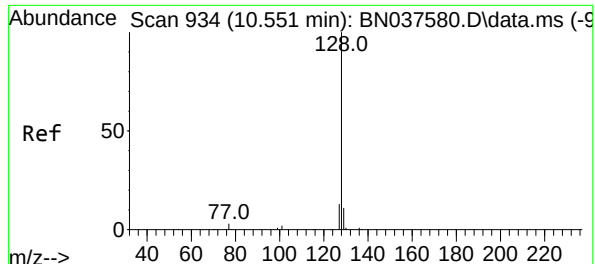
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5019  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.1  | 9.5   | 14.3  |
| 54       | 8.6   | 7.3   | 10.9  |
| 68       | 5.9   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 3.422 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 12097 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 39.7  | 32.6  | 48.8  |
| 54       | 58.6  | 48.9  | 73.3  |

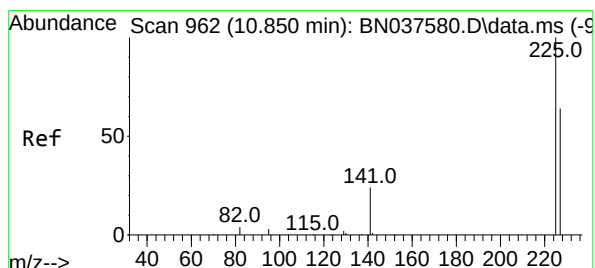
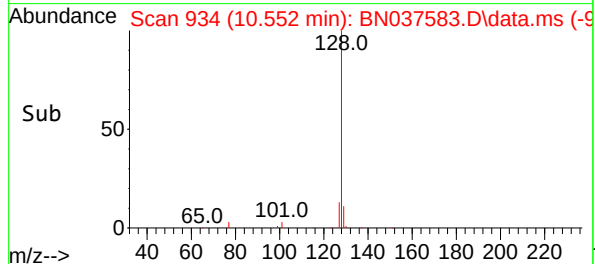
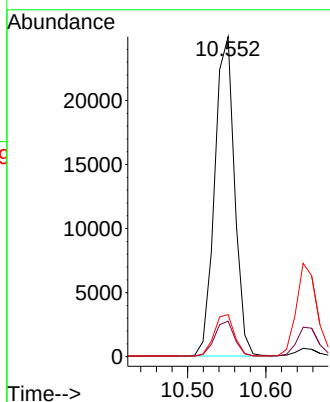
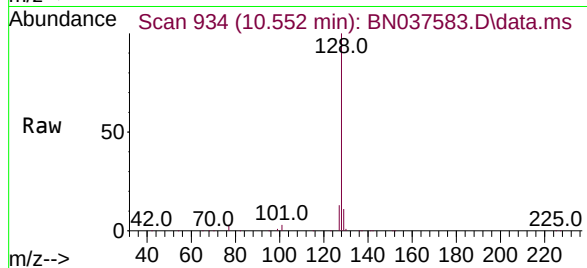




#9  
Naphthalene  
Concen: 3.292 ng  
RT: 10.552 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

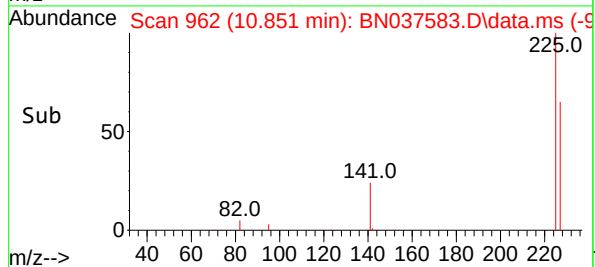
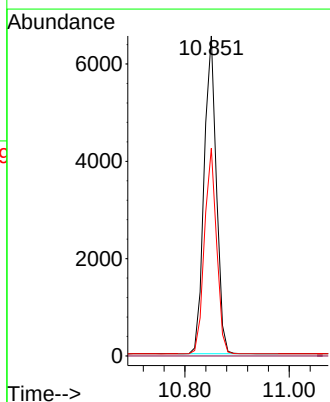
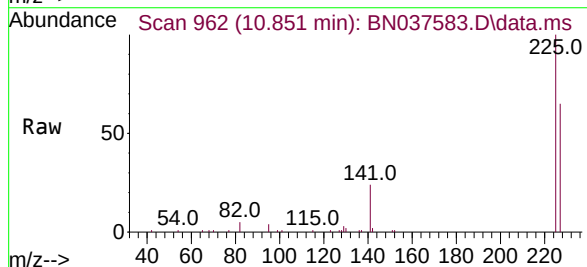
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

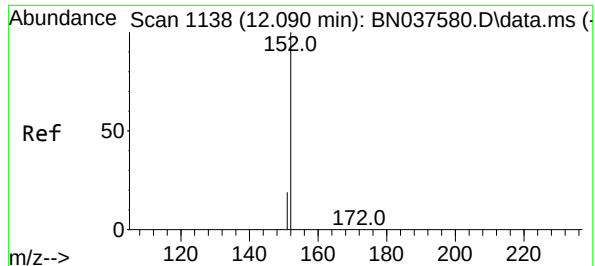
Tgt Ion:128 Resp: 43991  
Ion Ratio Lower Upper  
128 100  
129 11.1 9.8 14.6  
127 13.2 11.5 17.3



#10  
Hexachlorobutadiene  
Concen: 3.248 ng  
RT: 10.851 min Scan# 962  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

Tgt Ion:225 Resp: 10602  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.0 50.8 76.2

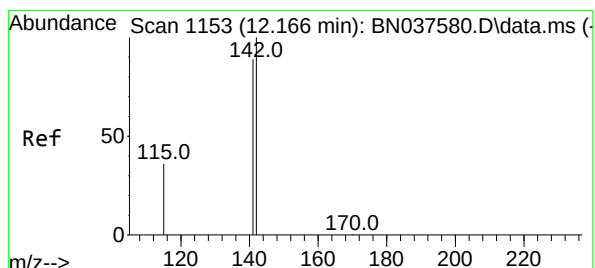
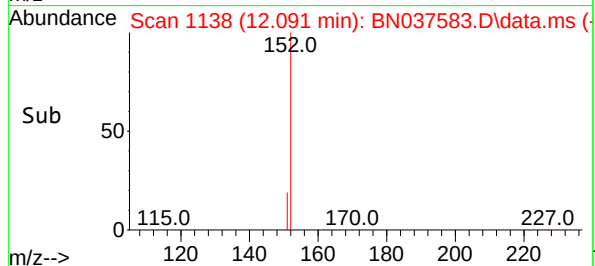
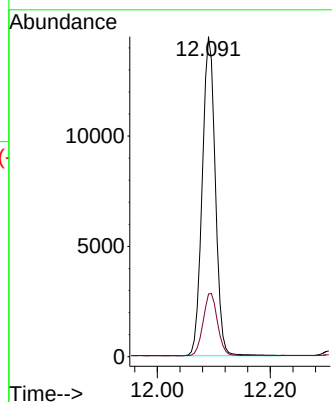
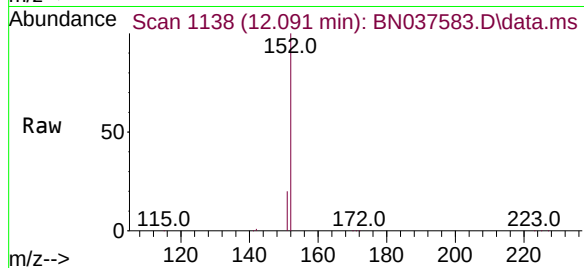




#11  
2-Methylnaphthalene-d10  
Concen: 3.402 ng  
RT: 12.091 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

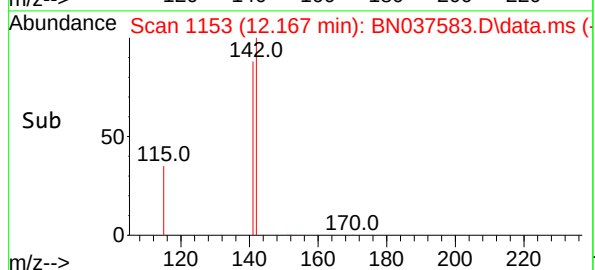
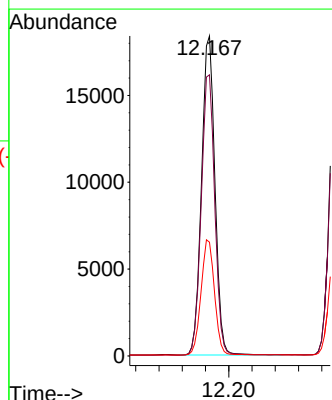
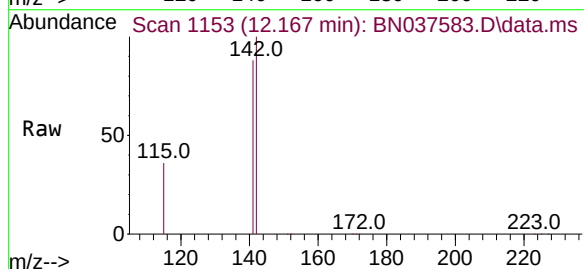
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BNA\_N  
ClientSampleId :  
SSTDICC3.2

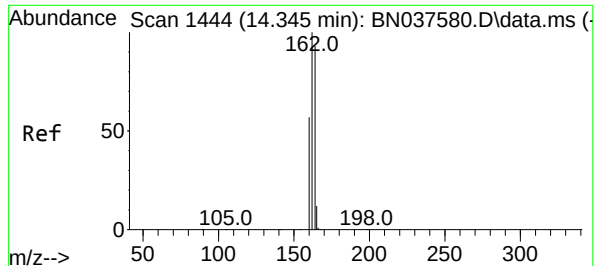
Tgt Ion:152 Resp: 23211  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.3 25.9



#12  
2-Methylnaphthalene  
Concen: 3.501 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

Tgt Ion:142 Resp: 29337  
Ion Ratio Lower Upper  
142 100  
141 87.9 71.4 107.0  
115 35.5 30.2 45.4

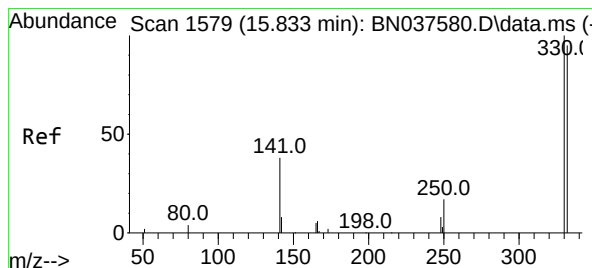
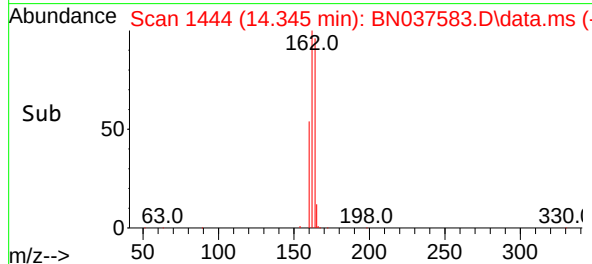
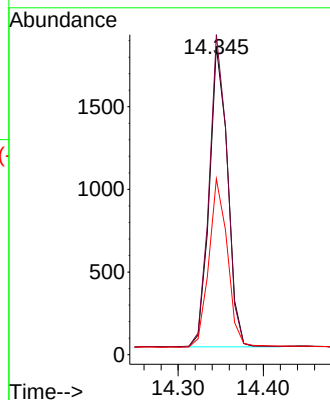
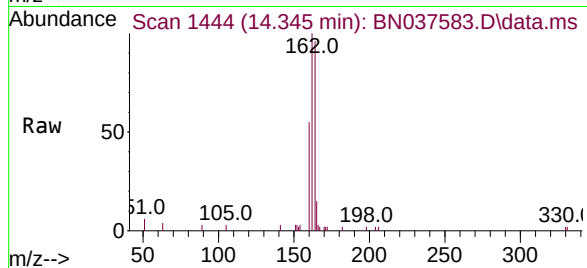




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

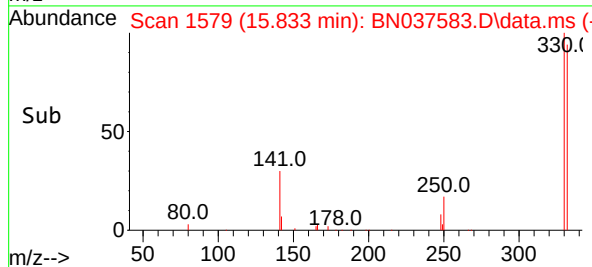
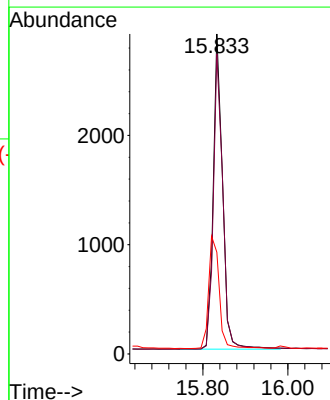
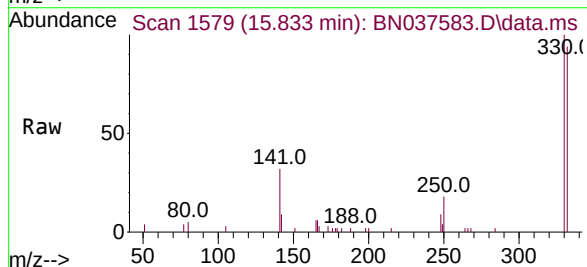
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

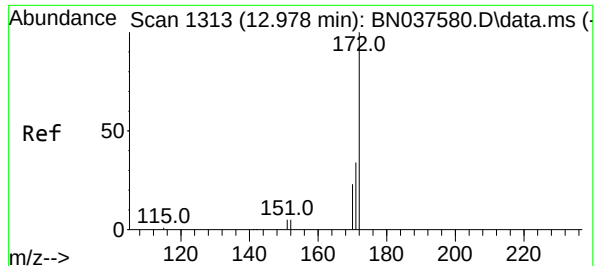
Tgt Ion:164 Resp: 2699  
Ion Ratio Lower Upper  
164 100  
162 103.8 85.5 128.3  
160 57.0 49.5 74.3



#14  
2,4,6-Tribromophenol  
Concen: 3.710 ng  
RT: 15.833 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

Tgt Ion:330 Resp: 4382  
Ion Ratio Lower Upper  
330 100  
332 95.1 77.4 116.0  
141 40.3 30.9 46.3

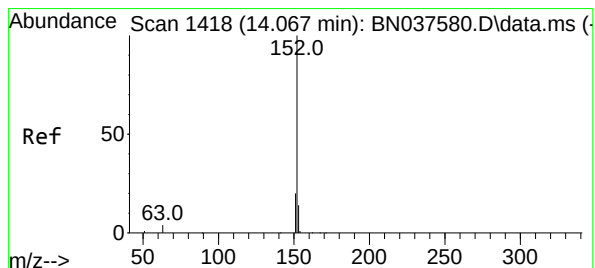
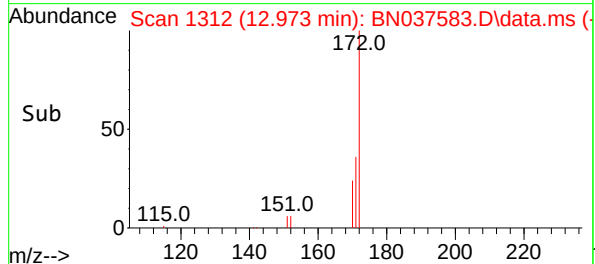
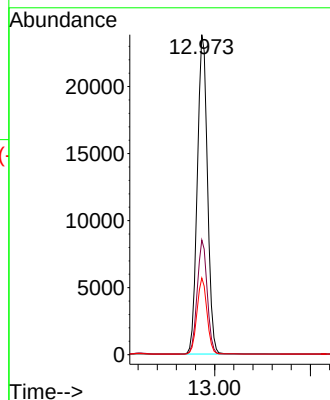
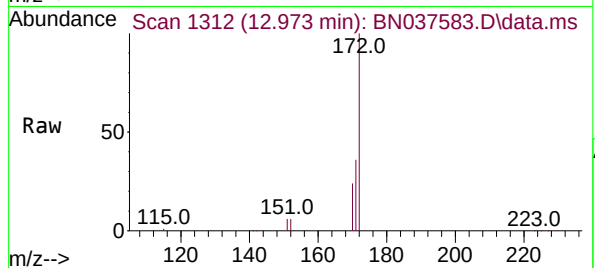




#15  
2-Fluorobiphenyl  
Concen: 3.308 ng  
RT: 12.973 min Scan# 1312  
Delta R.T. -0.005 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

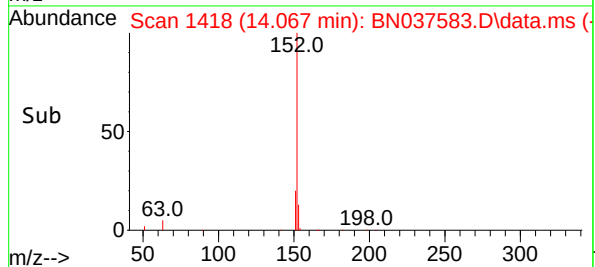
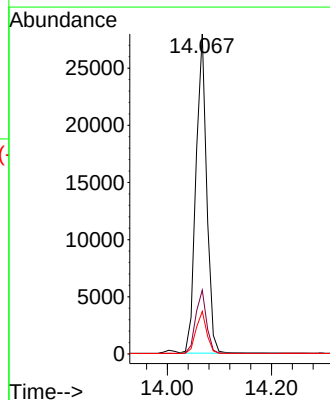
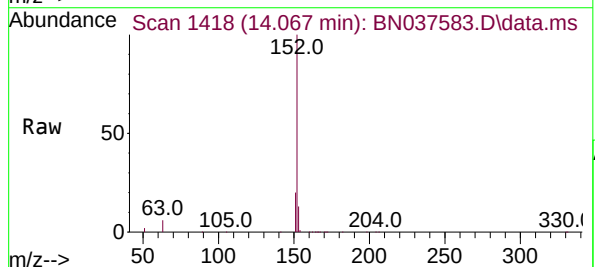
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

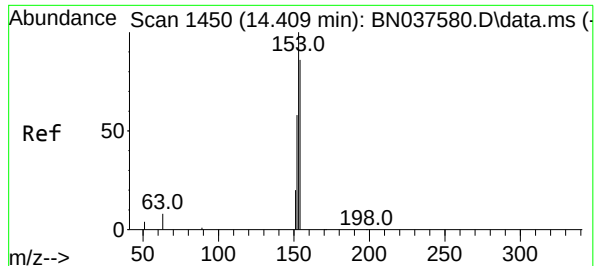
Tgt Ion:172 Resp: 51634  
Ion Ratio Lower Upper  
172 100  
171 35.9 28.2 42.4  
170 24.0 19.2 28.8



#16  
Acenaphthylene  
Concen: 3.316 ng  
RT: 14.067 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

Tgt Ion:152 Resp: 40122  
Ion Ratio Lower Upper  
152 100  
151 20.0 16.1 24.1  
153 13.0 10.7 16.1

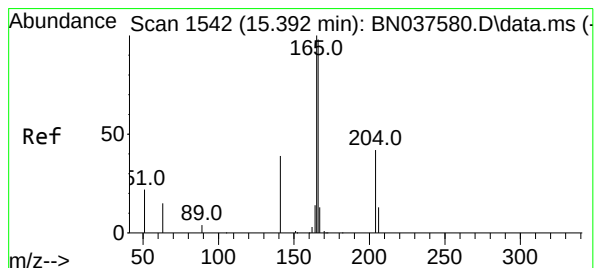
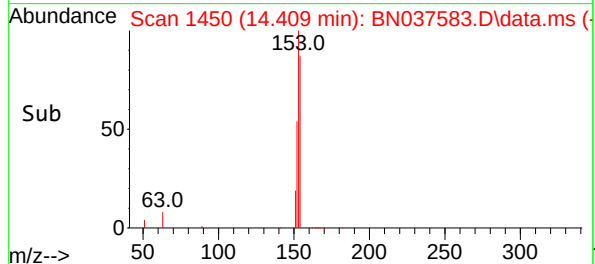
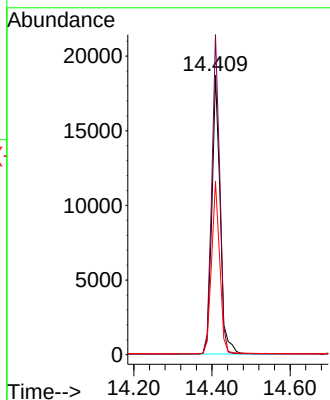
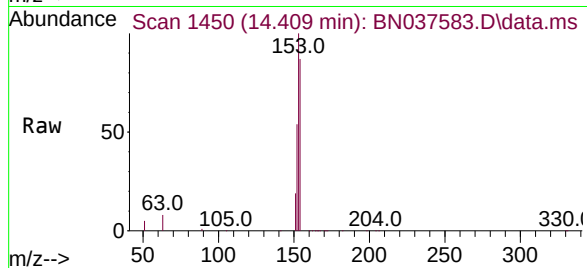




#17  
Acenaphthene  
Concen: 3.375 ng  
RT: 14.409 min Scan# 1450  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

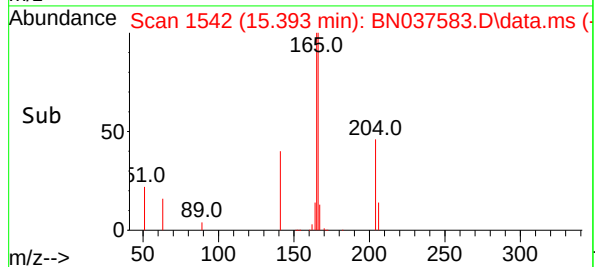
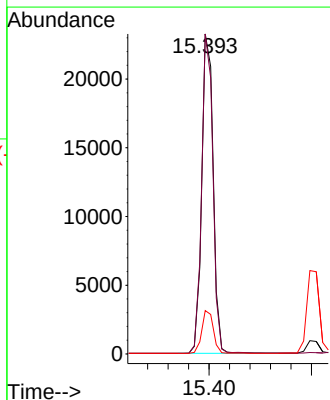
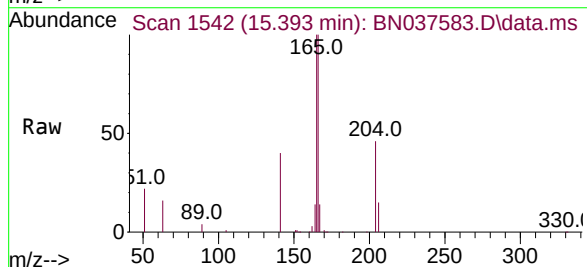
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

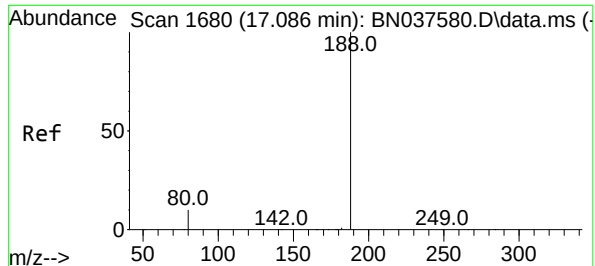
Tgt Ion:154 Resp: 27774  
Ion Ratio Lower Upper  
154 100  
153 109.4 90.6 135.8  
152 60.7 54.9 82.3



#18  
Fluorene  
Concen: 3.396 ng  
RT: 15.393 min Scan# 1542  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

Tgt Ion:166 Resp: 36565  
Ion Ratio Lower Upper  
166 100  
165 98.5 78.9 118.3  
167 13.4 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

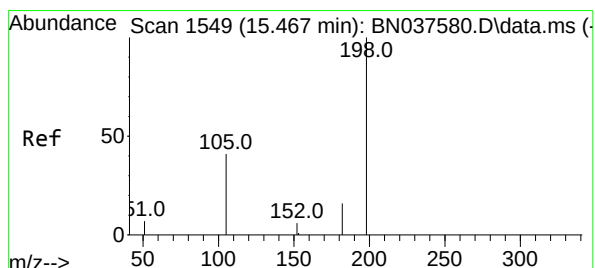
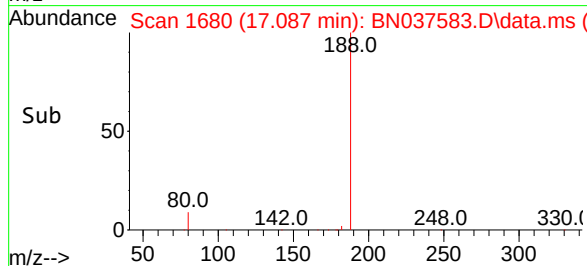
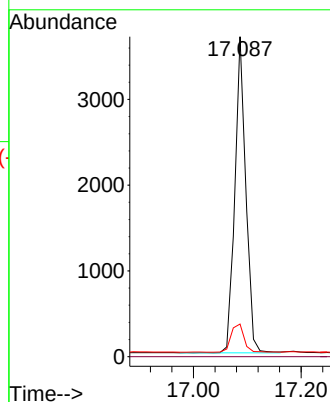
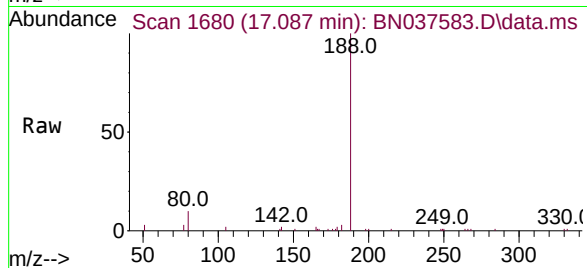
Tgt Ion:188 Resp: 5200

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.2 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 3.257 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

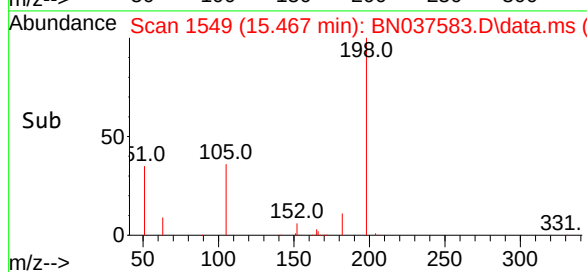
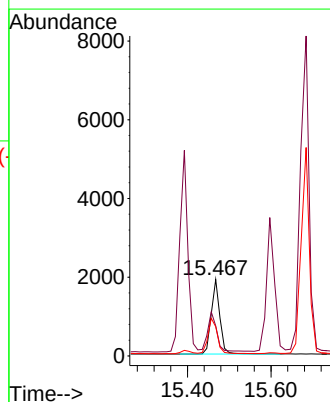
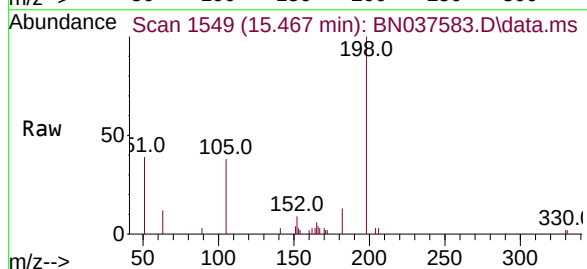
Tgt Ion:198 Resp: 2906

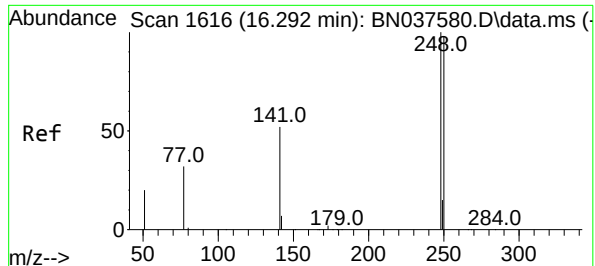
Ion Ratio Lower Upper

198 100

51 39.4 81.0 121.6#

105 38.3 52.5 78.7#





#21

4-Bromophenyl-phenylether

Concen: 3.444 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

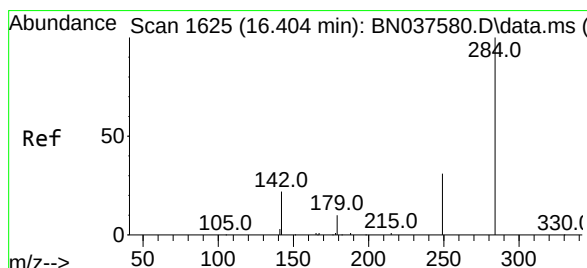
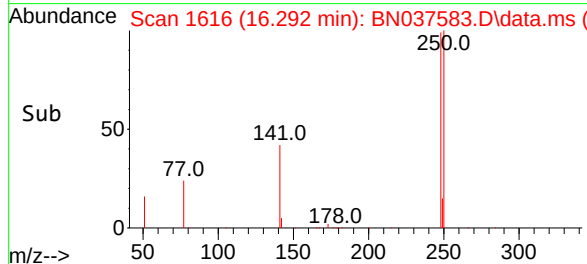
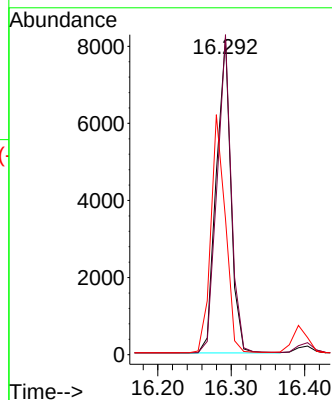
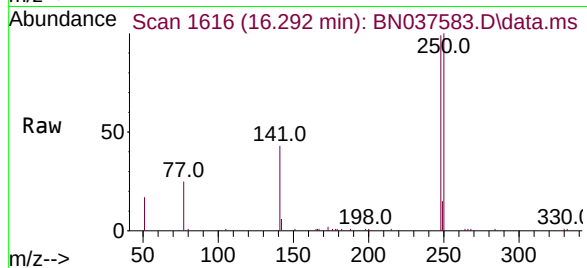
Tgt Ion:248 Resp: 11254

Ion Ratio Lower Upper

248 100

250 101.0 78.6 118.0

141 42.9 43.7 65.5#



#22

Hexachlorobenzene

Concen: 3.183 ng

RT: 16.404 min Scan# 1625

Delta R.T. -0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

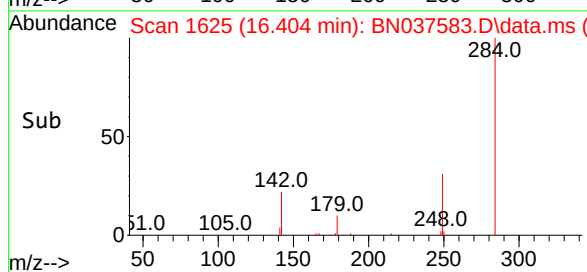
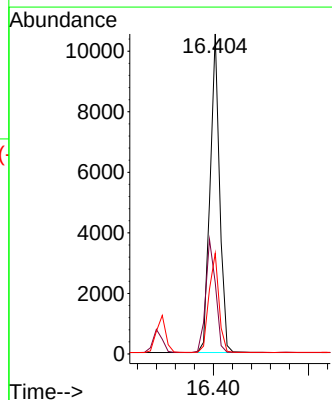
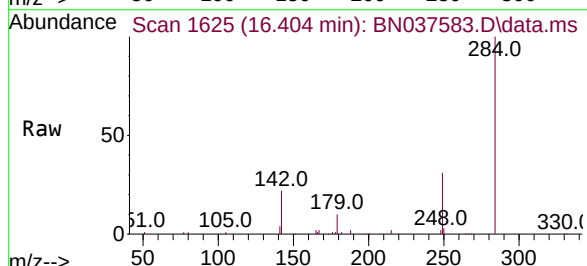
Tgt Ion:284 Resp: 14747

Ion Ratio Lower Upper

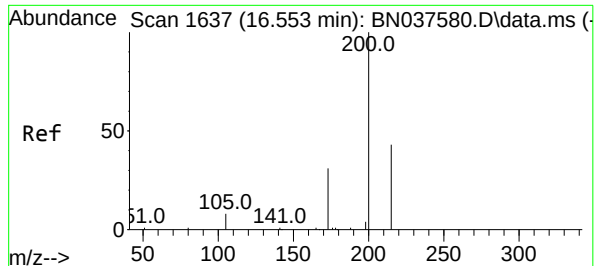
284 100

142 37.0 29.8 44.6

249 32.6 26.0 39.0



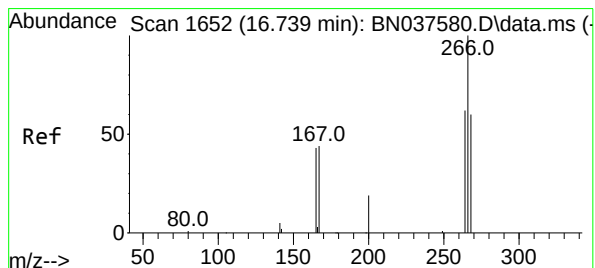
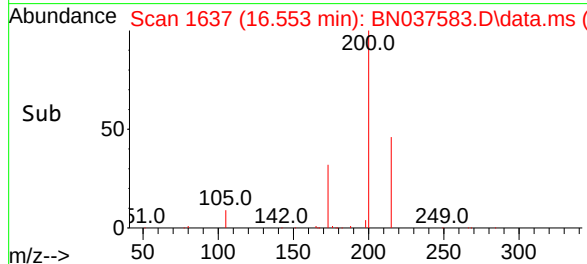
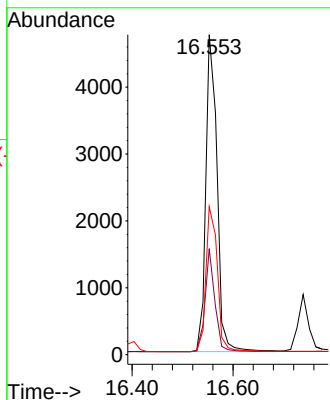
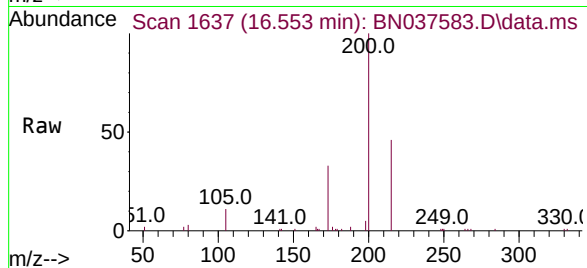




#23  
Atrazine  
Concen: 3.967 ng  
RT: 16.553 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

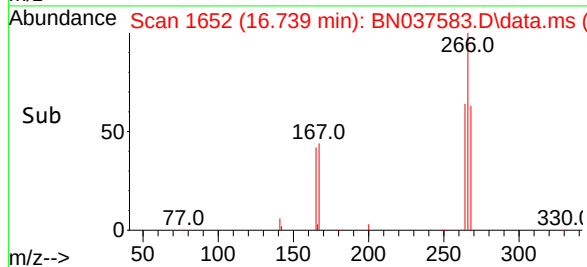
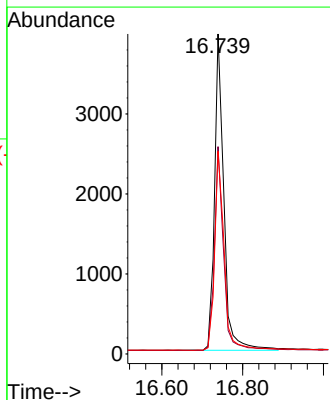
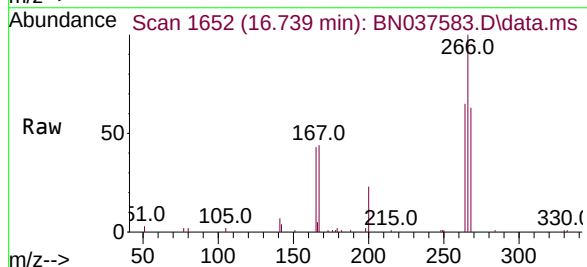
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

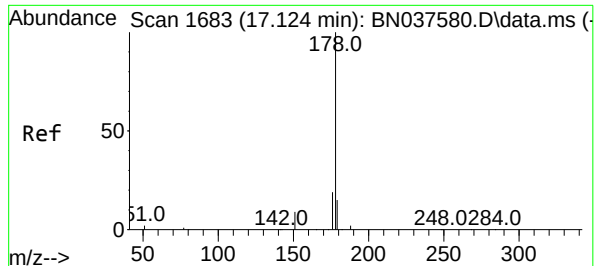
Tgt Ion:200 Resp: 7330  
Ion Ratio Lower Upper  
200 100  
173 33.1 31.0 46.4  
215 46.2 39.4 59.0



#24  
Pentachlorophenol  
Concen: 3.887 ng  
RT: 16.739 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

Tgt Ion:266 Resp: 6325  
Ion Ratio Lower Upper  
266 100  
264 63.4 49.6 74.4  
268 64.3 49.2 73.8

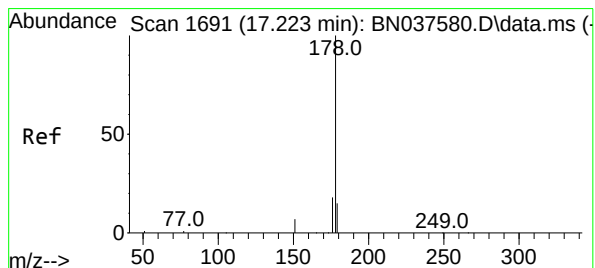
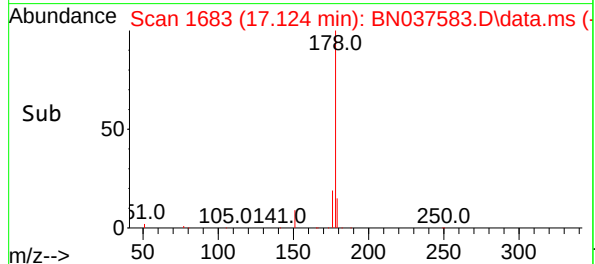
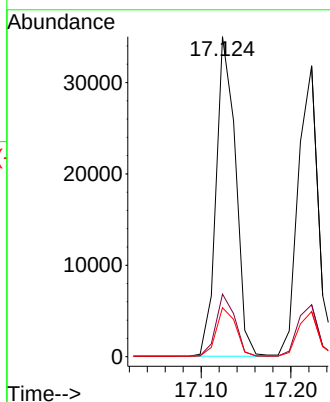
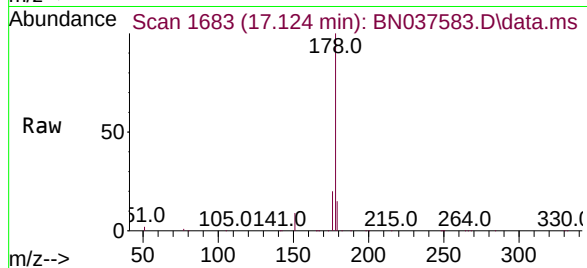




#25  
Phenanthrene  
Concen: 3.339 ng  
RT: 17.124 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

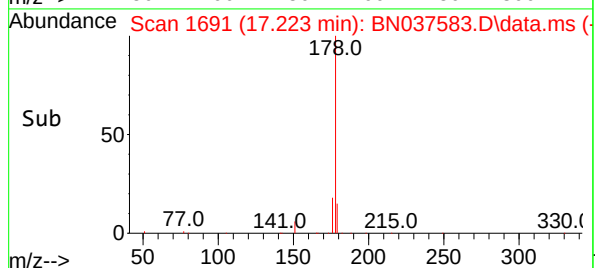
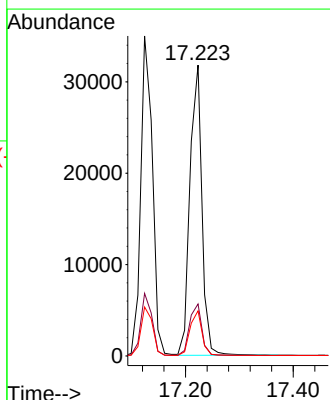
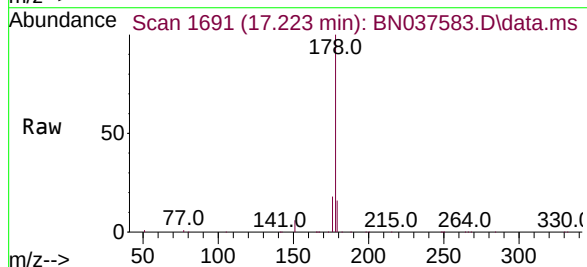
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

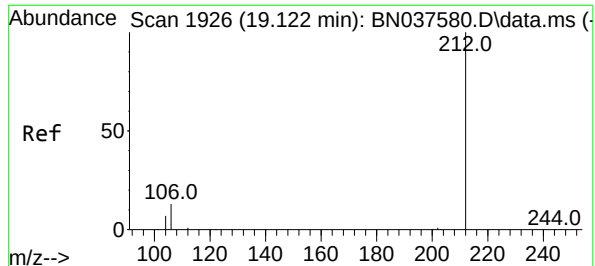
Tgt Ion:178 Resp: 52784  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.0 22.6  
179 15.3 12.3 18.5



#26  
Anthracene  
Concen: 3.525 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

Tgt Ion:178 Resp: 49333  
Ion Ratio Lower Upper  
178 100  
176 18.2 14.7 22.1  
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.376 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

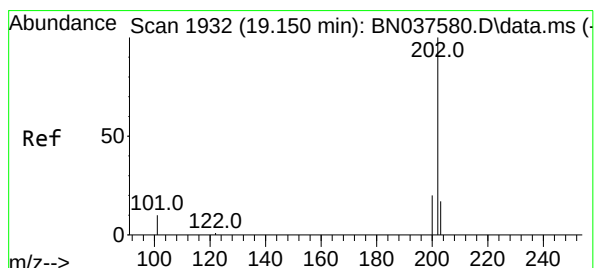
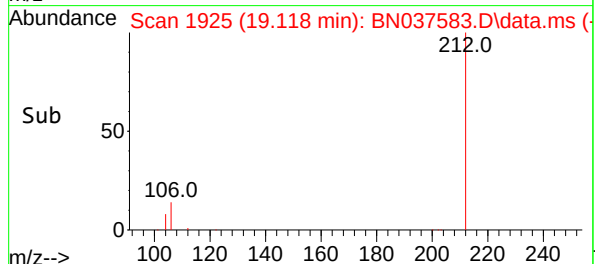
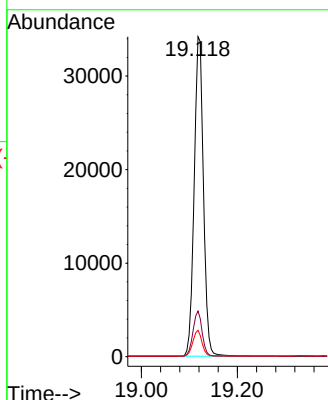
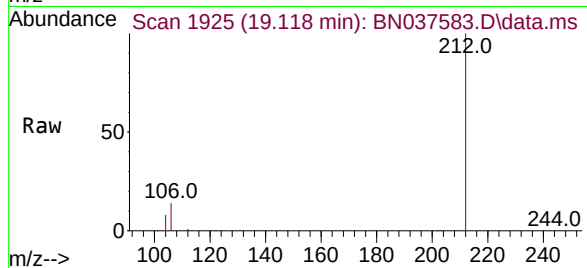
Tgt Ion:212 Resp: 46178

Ion Ratio Lower Upper

212 100

106 13.9 11.5 17.3

104 8.0 6.6 9.8



#28

Fluoranthene

Concen: 3.511 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

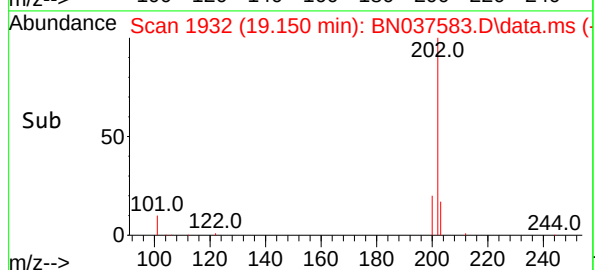
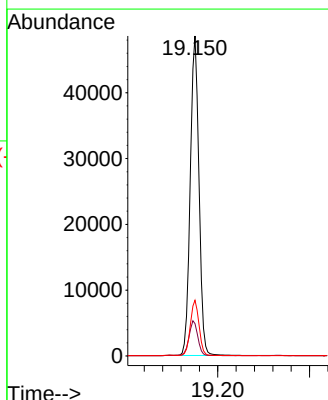
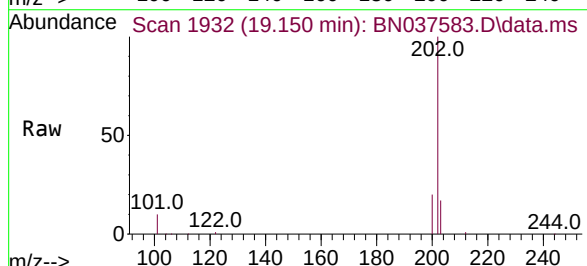
Tgt Ion:202 Resp: 63765

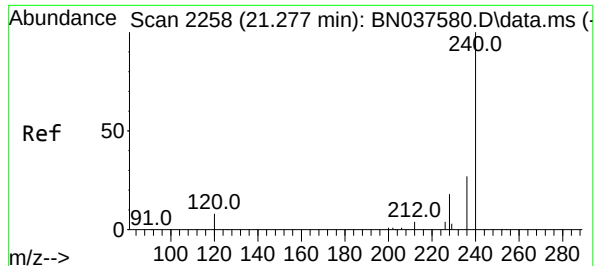
Ion Ratio Lower Upper

202 100

101 11.1 9.0 13.6

203 17.3 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

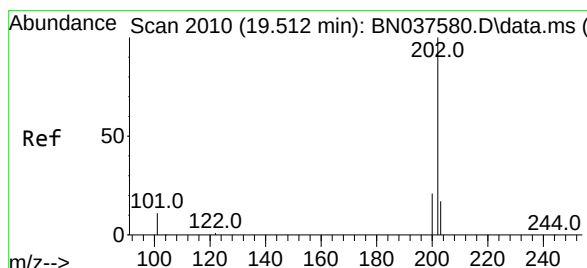
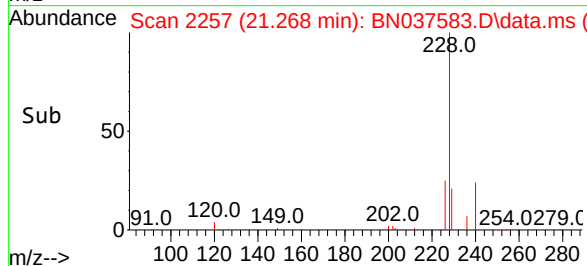
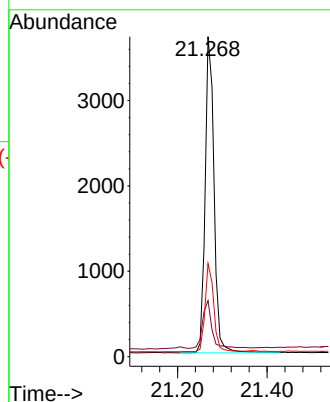
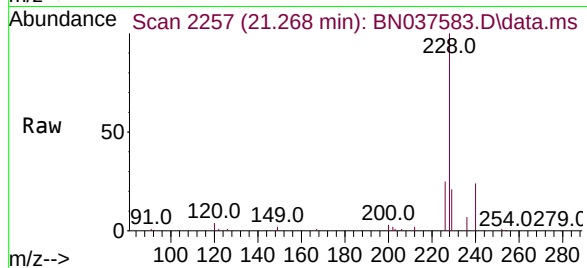
Tgt Ion:240 Resp: 5116

Ion Ratio Lower Upper

240 100

120 17.5 8.9 13.3#

236 29.1 22.6 33.8



#30

Pyrene

Concen: 3.254 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

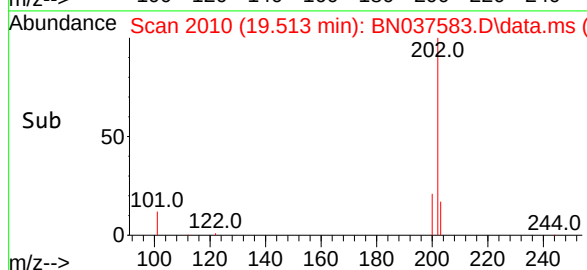
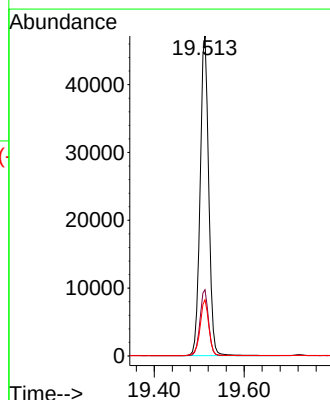
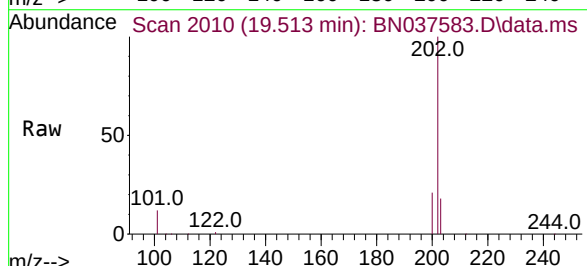
Tgt Ion:202 Resp: 62227

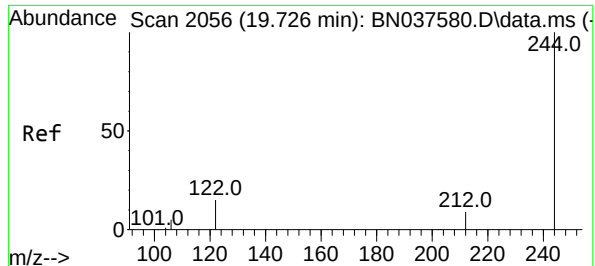
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.8 14.3 21.5

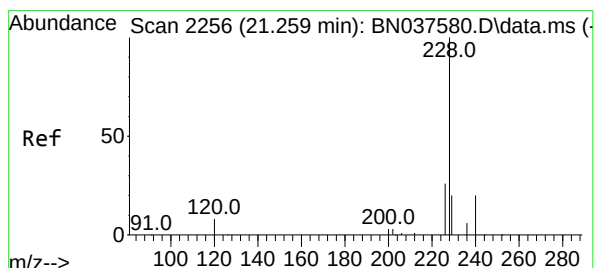
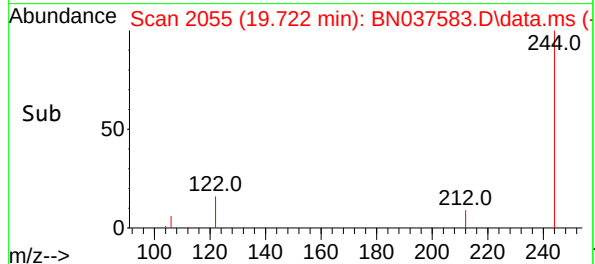
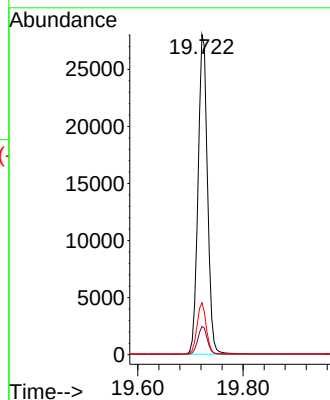
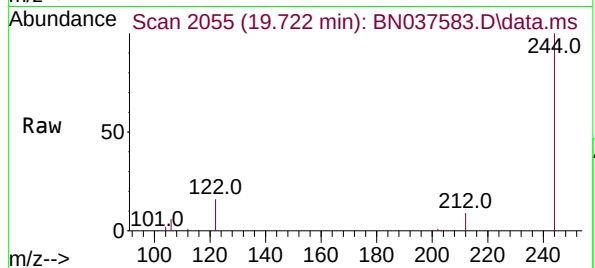




#31  
Terphenyl-d14  
Concen: 3.315 ng  
RT: 19.722 min Scan# 2055  
Delta R.T. -0.004 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

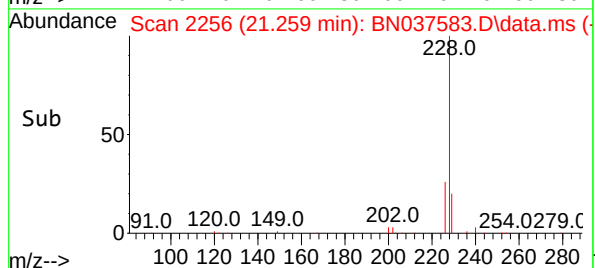
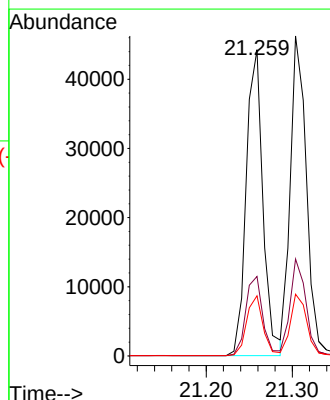
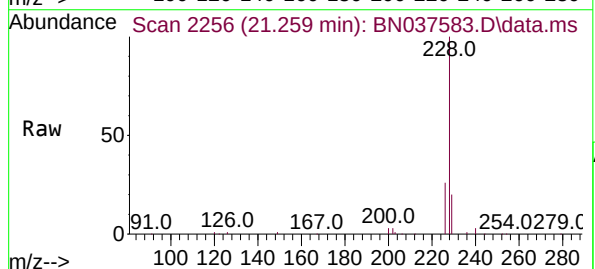
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

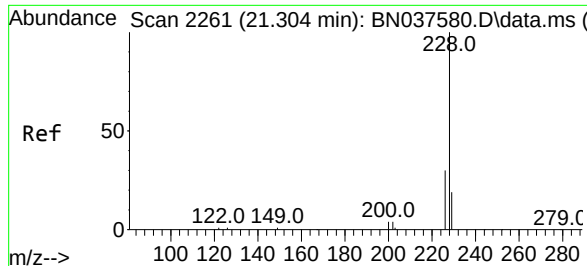
Tgt Ion:244 Resp: 34892  
Ion Ratio Lower Upper  
244 100  
212 8.8 8.2 12.2  
122 16.2 13.2 19.8



#32  
Benzo(a)anthracene  
Concen: 3.491 ng  
RT: 21.259 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: BN037583.D  
Acq: 12 Aug 2025 19:29

Tgt Ion:228 Resp: 59663  
Ion Ratio Lower Upper  
228 100  
226 26.0 21.5 32.3  
229 19.6 16.5 24.7





#33

Chrysene

Concen: 3.199 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

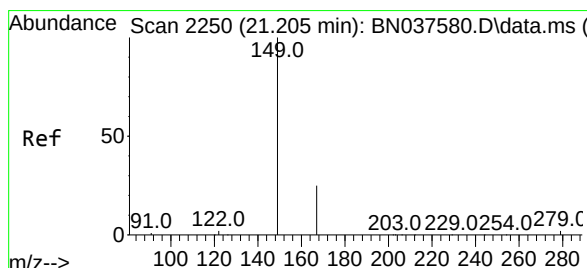
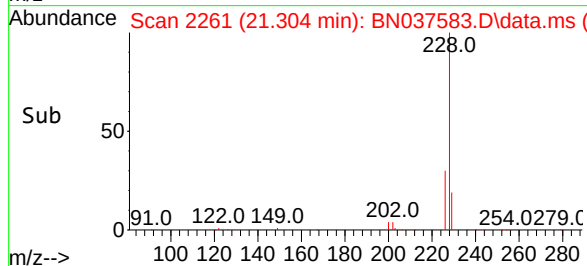
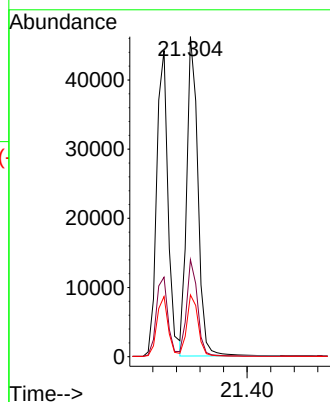
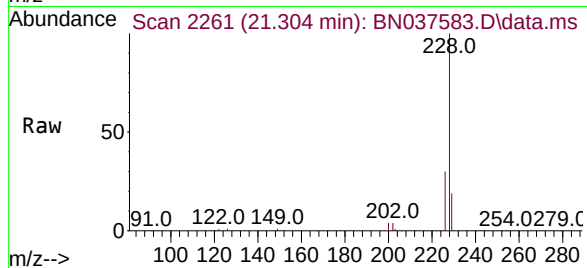
Tgt Ion:228 Resp: 60925

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

229 19.3 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.440 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

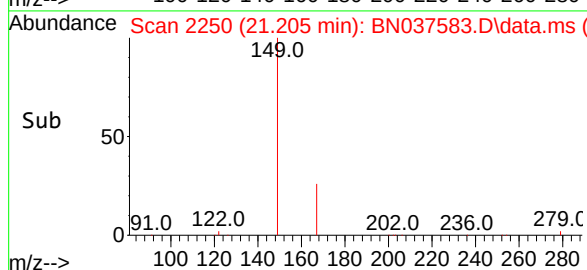
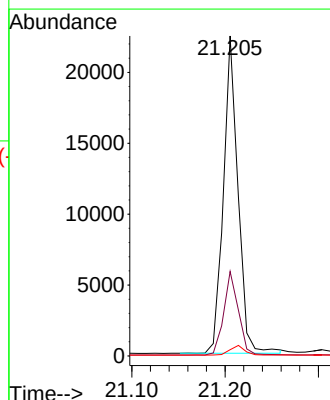
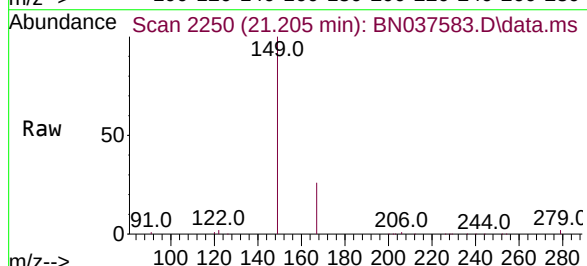
Tgt Ion:149 Resp: 24265

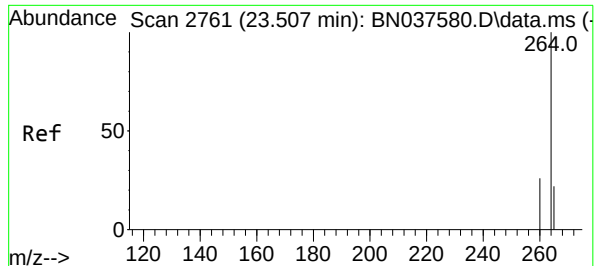
Ion Ratio Lower Upper

149 100

167 26.3 20.5 30.7

279 3.1 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.508 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

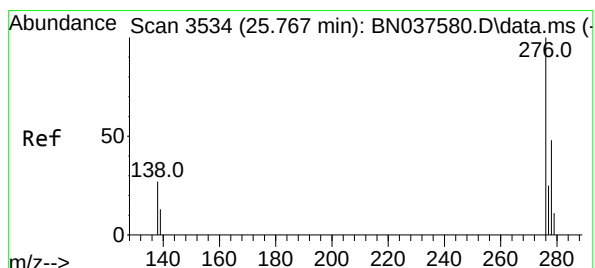
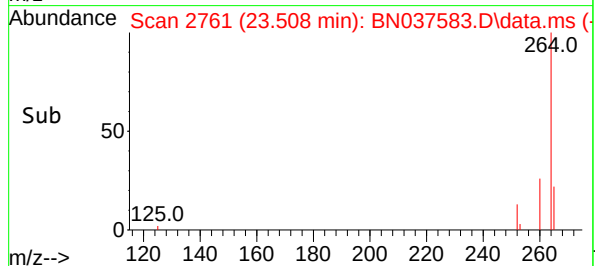
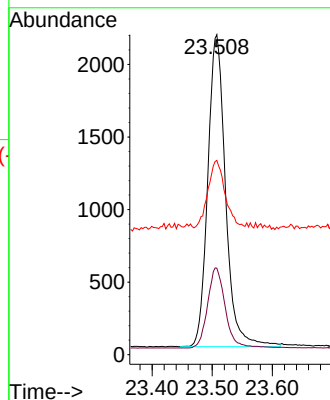
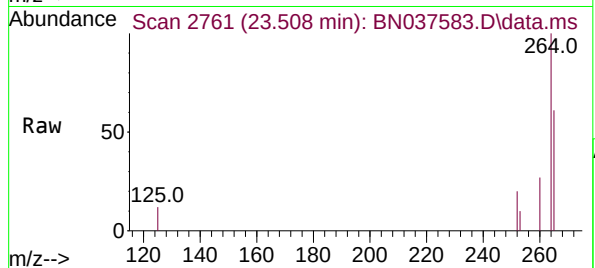
Tgt Ion:264 Resp: 4411

Ion Ratio Lower Upper

264 100

260 27.1 21.6 32.4

265 60.7 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.576 ng

RT: 25.768 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

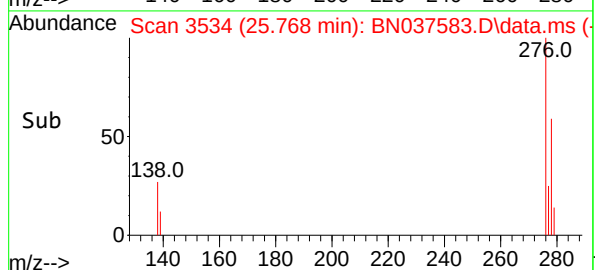
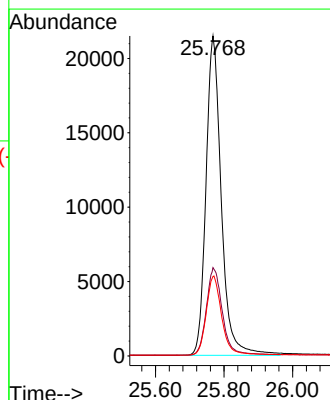
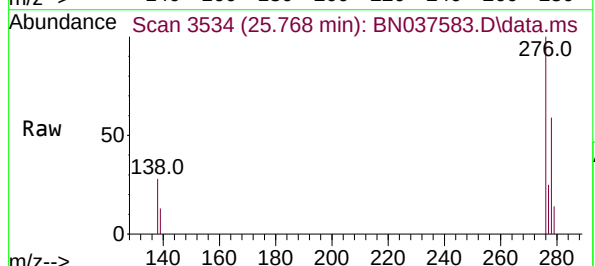
Tgt Ion:276 Resp: 66459

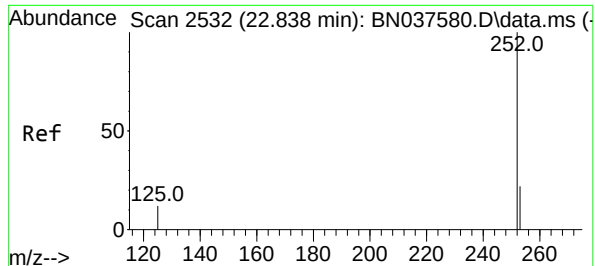
Ion Ratio Lower Upper

276 100

138 28.5 23.3 34.9

277 25.1 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 3.535 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

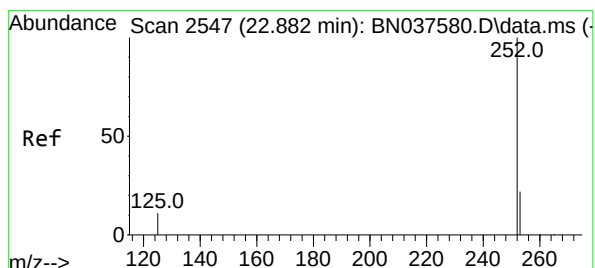
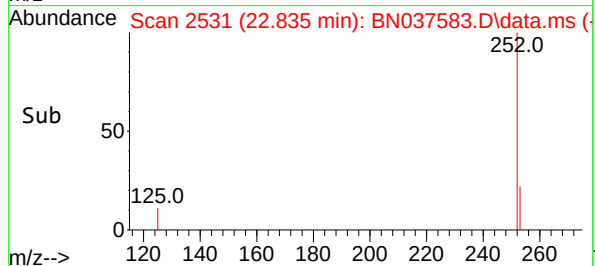
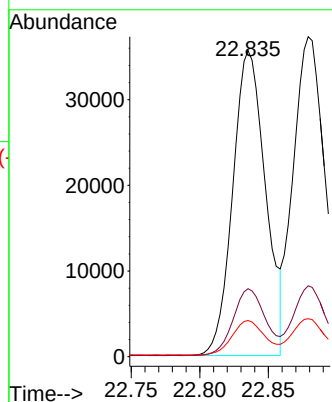
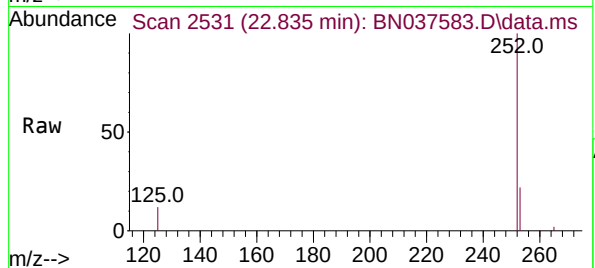
Tgt Ion:252 Resp: 59086

Ion Ratio Lower Upper

252 100

253 22.2 20.0 30.0

125 11.8 13.8 20.6#



#38

Benzo(k)fluoranthene

Concen: 3.363 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037583.D

Acq: 12 Aug 2025 19:29

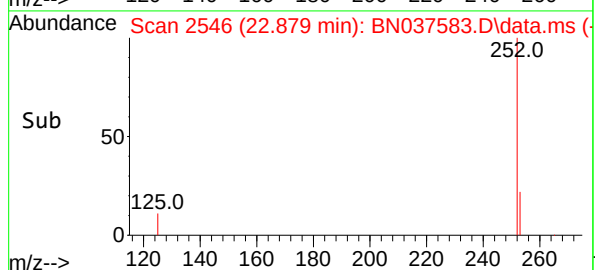
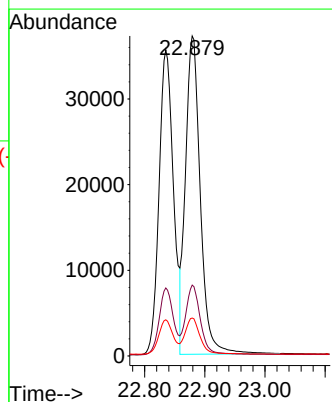
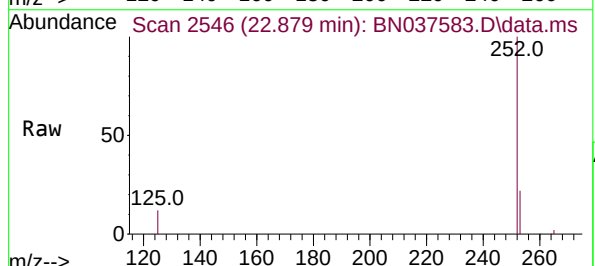
Tgt Ion:252 Resp: 63422

Ion Ratio Lower Upper

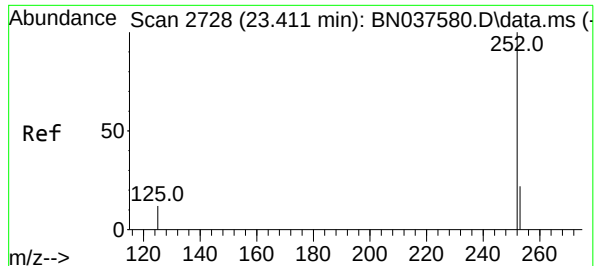
252 100

253 22.2 19.9 29.9

125 11.8 15.0 22.6#







#39

Benzo(a)pyrene

Concen: 3.518 ng

RT: 23.411 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037583.D

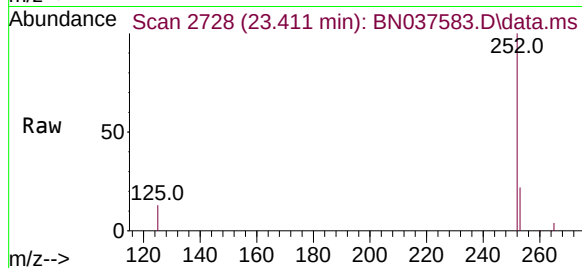
Acq: 12 Aug 2025 19:29

Instrument :

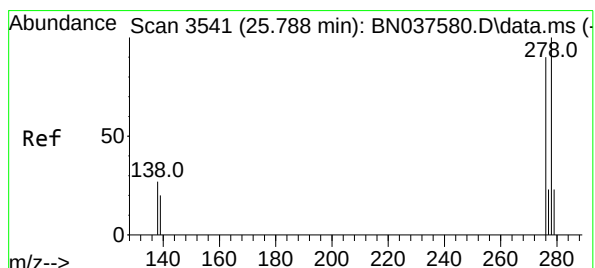
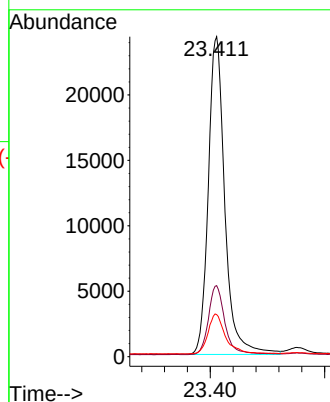
BNA\_N

ClientSampleId :

SSTDICC3.2



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 48767 |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 22.2  | 21.6  | 32.4  |
| 125      | 13.1  | 16.8  | 25.2# |



#40

Dibenzo(a,h)anthracene

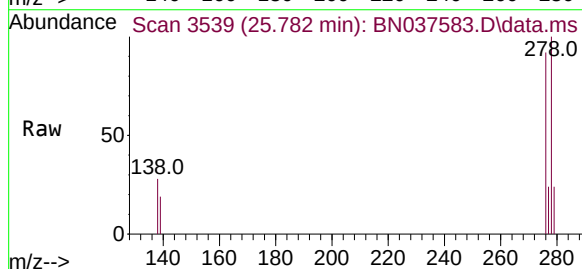
Concen: 3.709 ng

RT: 25.782 min Scan# 3539

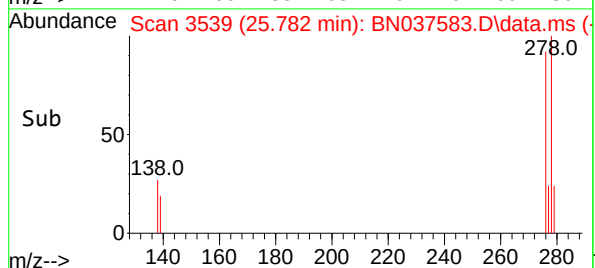
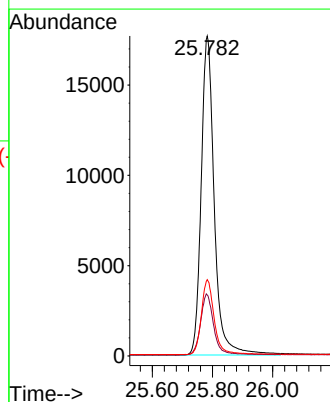
Delta R.T. -0.006 min

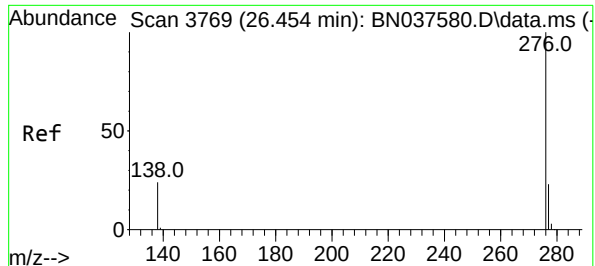
Lab File: BN037583.D

Acq: 12 Aug 2025 19:29



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 278   | Resp: | 53486 |
| Ion      | Ratio | Lower | Upper |
| 278      | 100   |       |       |
| 139      | 19.0  | 18.3  | 27.5  |
| 279      | 23.9  | 22.5  | 33.7  |





#41

Benzo(g,h,i)perylene

Concen: 3.558 ng

RT: 26.455 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037583.D

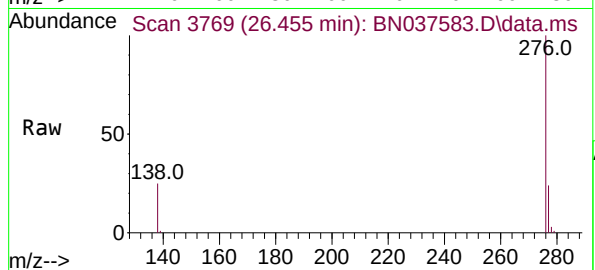
Acq: 12 Aug 2025 19:29

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2



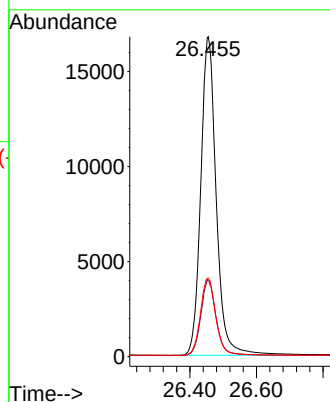
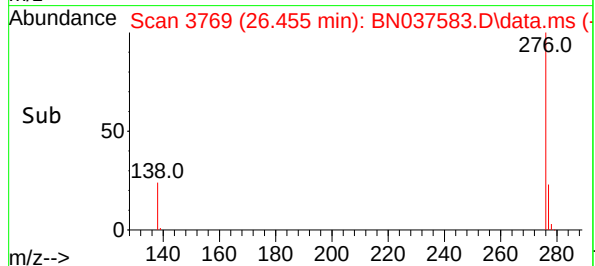
Tgt Ion:276 Resp: 54068

Ion Ratio Lower Upper

276 100

277 23.7 21.0 31.4

138 24.6 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
 Data File : BN037584.D  
 Acq On : 12 Aug 2025 20:05  
 Operator : RC/JU  
 Sample : SSTDICC5.0  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

Quant Time: Aug 13 04:50:02 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 04:46:02 2025  
 Response via : Initial Calibration

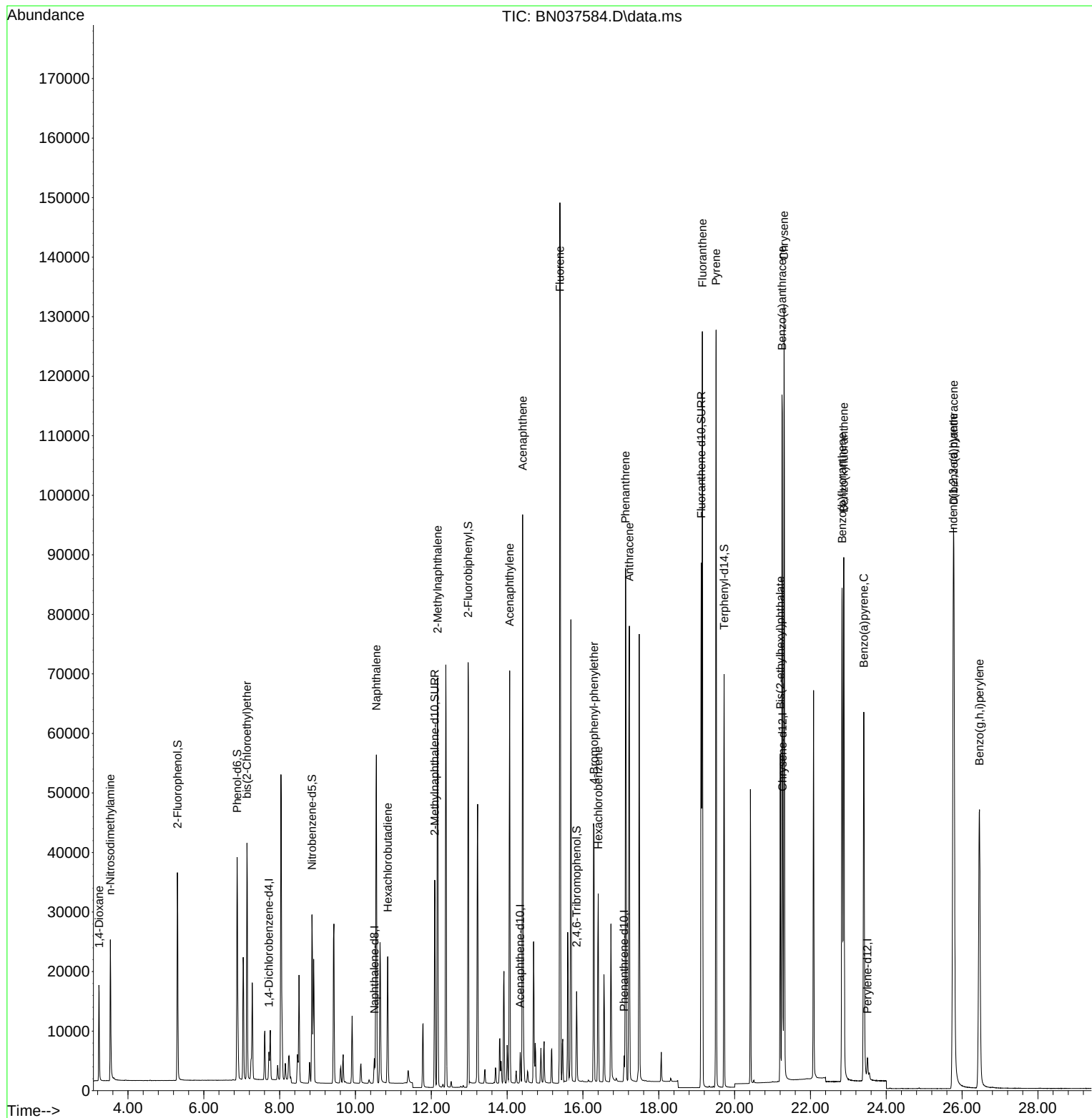
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 2149     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 5152     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2803     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 5318     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 5600     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.505 | 264  | 4653     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 26238    | 5.386 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 32269    | 5.504 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 20990    | 5.784 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.091 | 152  | 45385    | 6.480 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 8185     | 6.672 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 85489    | 5.273 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.118 | 212  | 94332    | 6.743 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.722 | 244  | 63100    | 5.477 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 9359     | 4.552 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.535  | 42   | 13640    | 5.192 | ng    | # 99     |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 27456    | 5.197 | ng    | 98       |
| 9) Naphthalene                | 10.551 | 128  | 72603    | 5.293 | ng    | 97       |
| 10) Hexachlorobutadiene       | 10.850 | 225  | 17071    | 5.094 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.167 | 142  | 48917    | 5.686 | ng    | 98       |
| 16) Acenaphthylene            | 14.067 | 152  | 69369    | 5.521 | ng    | 99       |
| 17) Acenaphthene              | 14.409 | 154  | 47237    | 5.527 | ng    | 92       |
| 18) Fluorene                  | 15.392 | 166  | 62012    | 5.546 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 16.292 | 248  | 19417    | 5.809 | ng    | # 91     |
| 22) Hexachlorobenzene         | 16.404 | 284  | 24588    | 5.190 | ng    | 100      |
| 25) Phenanthrene              | 17.124 | 178  | 89516    | 5.537 | ng    | 100      |
| 26) Anthracene                | 17.223 | 178  | 85474    | 5.972 | ng    | 100      |
| 28) Fluoranthene              | 19.150 | 202  | 109583   | 5.900 | ng    | 100      |
| 30) Pyrene                    | 19.513 | 202  | 108658   | 5.190 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.250 | 228  | 104084   | 5.564 | ng    | 98       |
| 33) Chrysene                  | 21.304 | 228  | 108554   | 5.207 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 46994    | 6.087 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.768 | 276  | 116962   | 5.965 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.835 | 252  | 106138   | 6.019 | ng    | # 91     |
| 38) Benzo(k)fluoranthene      | 22.879 | 252  | 110373   | 5.548 | ng    | # 90     |
| 39) Benzo(a)pyrene            | 23.408 | 252  | 87699    | 5.997 | ng    | # 87     |
| 40) Dibenzo(a,h)anthracene    | 25.782 | 278  | 94267    | 6.197 | ng    | 92       |
| 41) Benzo(g,h,i)perylene      | 26.458 | 276  | 95537    | 5.960 | ng    | 95       |
| -----                         |        |      |          |       |       |          |

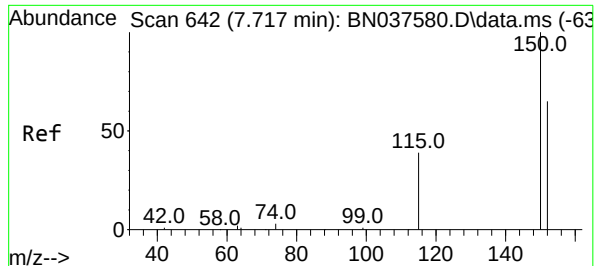
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
Data File : BN037584.D  
Acq On : 12 Aug 2025 20:05  
Operator : RC/JU  
Sample : SSTDICC5.0  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

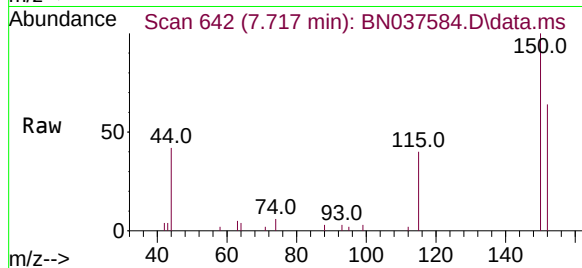
Quant Time: Aug 13 04:50:02 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 04:46:02 2025  
Response via : Initial Calibration



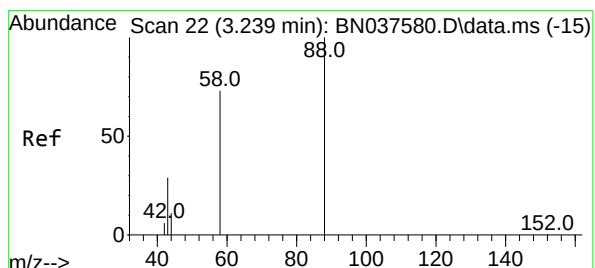
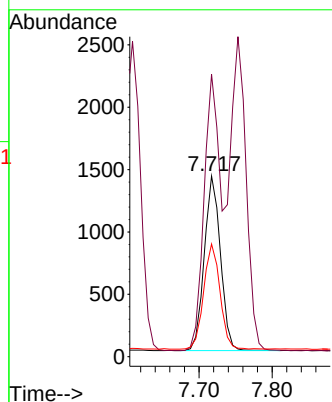
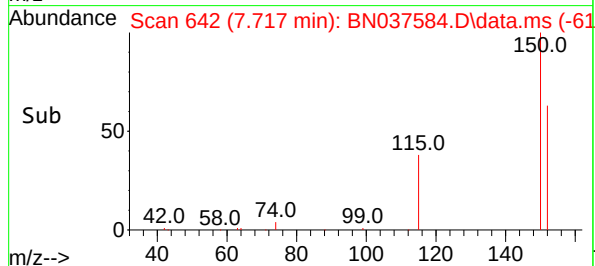


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

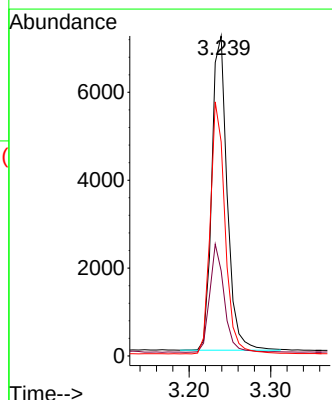
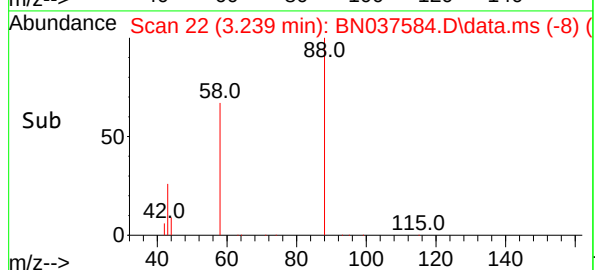
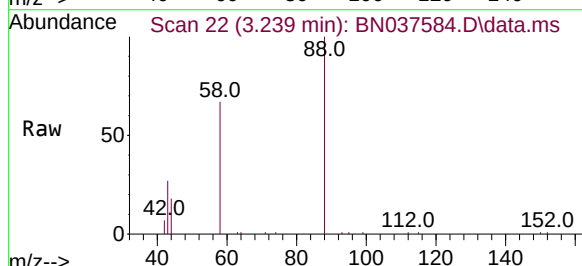


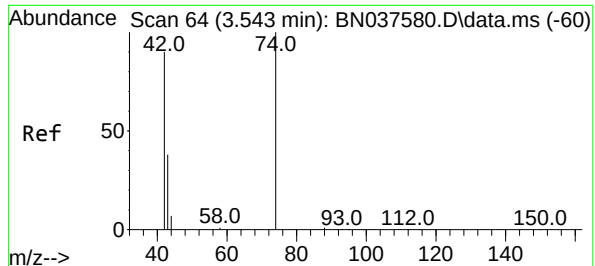
Tgt Ion:152 Resp: 2149  
Ion Ratio Lower Upper  
152 100  
150 156.4 122.2 183.4  
115 62.4 49.8 74.6



#2  
1,4-Dioxane  
Concen: 4.552 ng  
RT: 3.239 min Scan# 22  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Tgt Ion: 88 Resp: 9359  
Ion Ratio Lower Upper  
88 100  
43 32.5 25.8 38.6  
58 77.5 61.2 91.8

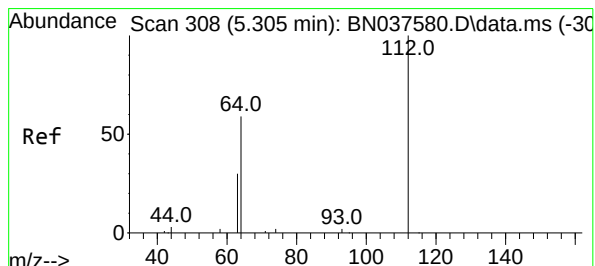
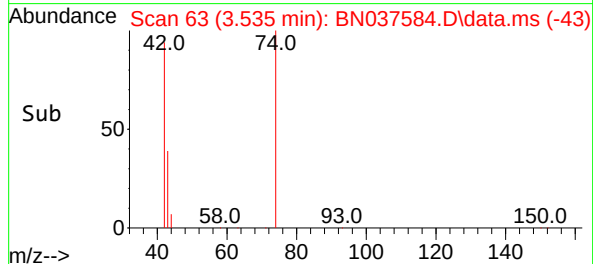
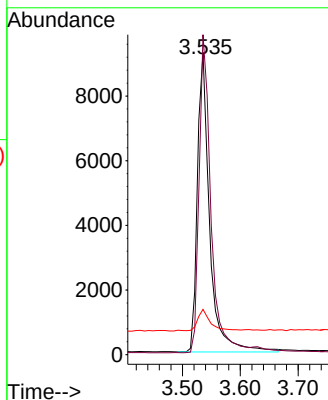
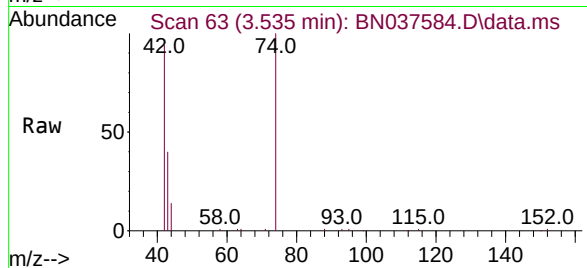




#3  
n-Nitrosodimethylamine  
Concen: 5.192 ng  
RT: 3.535 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

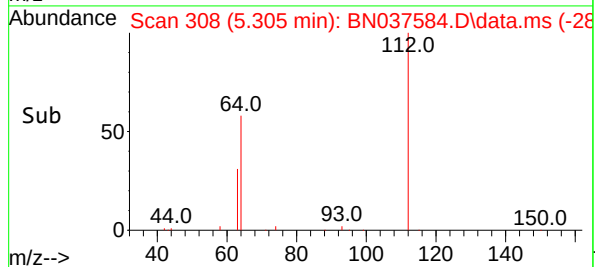
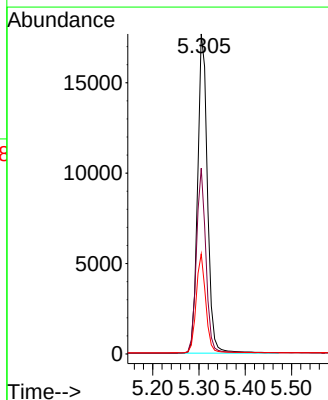
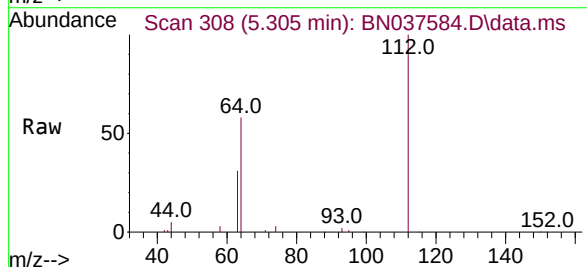
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

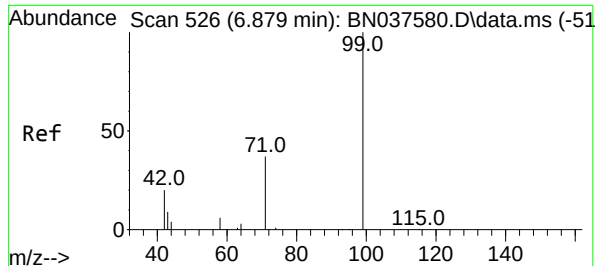
Tgt Ion: 42 Resp: 13640  
Ion Ratio Lower Upper  
42 100  
74 102.7 82.0 123.0  
44 7.6 7.9 11.9#



#4  
2-Fluorophenol  
Concen: 5.386 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Tgt Ion: 112 Resp: 26238  
Ion Ratio Lower Upper  
112 100  
64 56.5 44.9 67.3  
63 30.1 23.4 35.2





#5

Phenol-d6

Concen: 5.504 ng

RT: 6.879 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

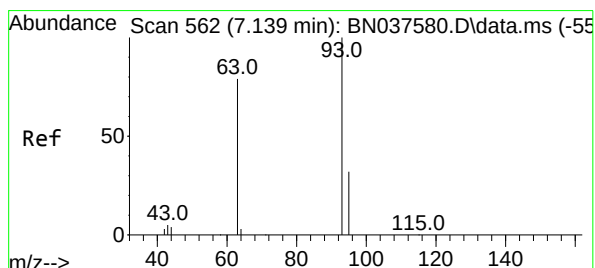
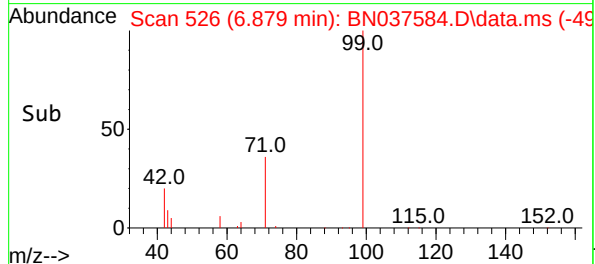
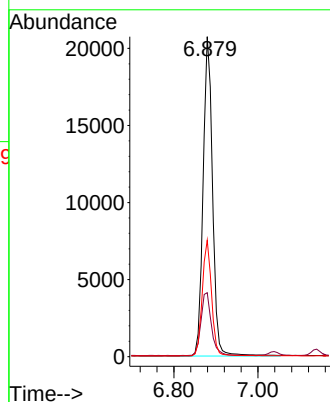
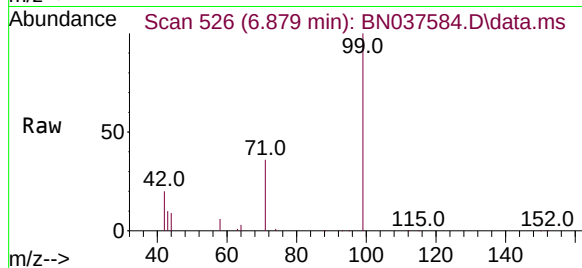
Tgt Ion: 99 Resp: 32269

Ion Ratio Lower Upper

99 100

42 21.8 18.5 27.7

71 35.9 28.6 42.8



#6

bis(2-Chloroethyl)ether

Concen: 5.197 ng

RT: 7.139 min Scan# 562

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

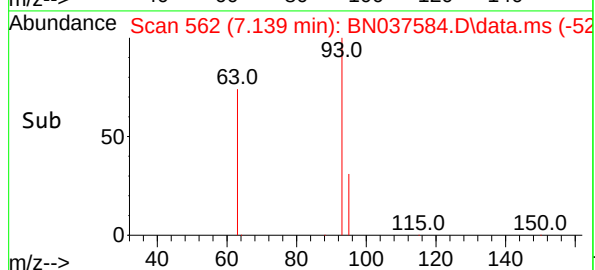
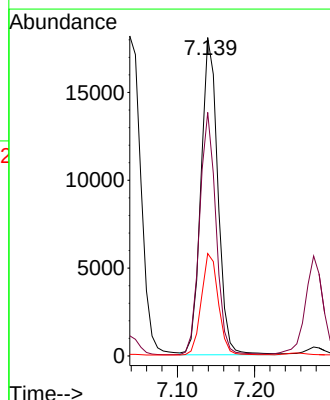
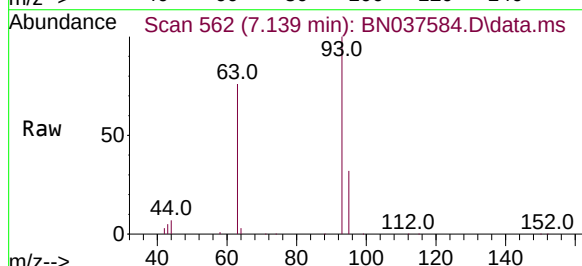
Tgt Ion: 93 Resp: 27456

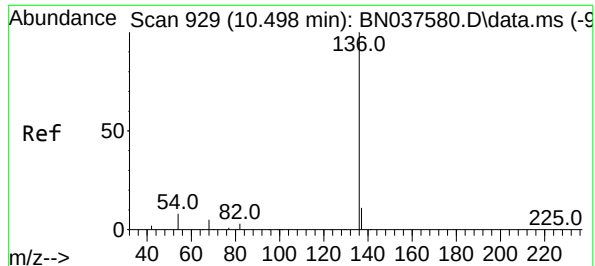
Ion Ratio Lower Upper

93 100

63 74.3 58.0 87.0

95 32.1 24.9 37.3

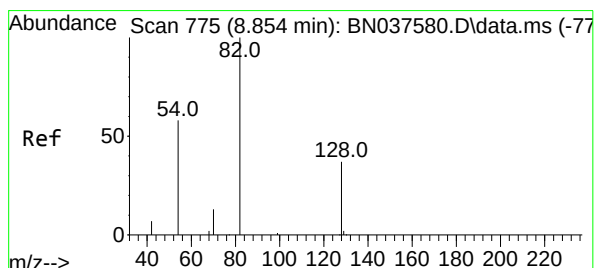
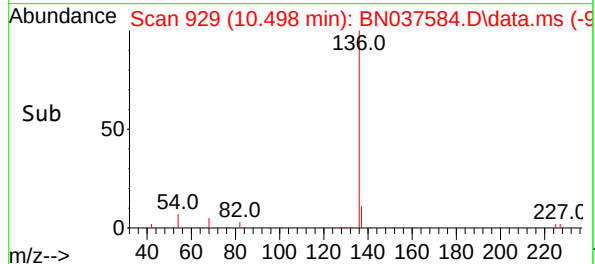
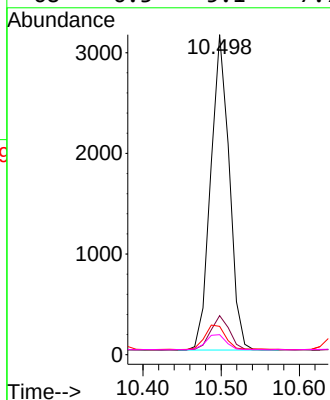
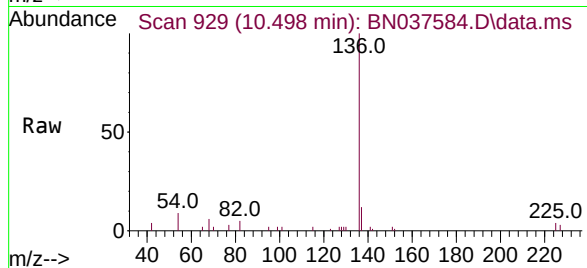




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

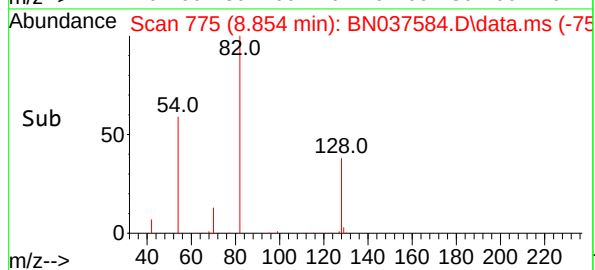
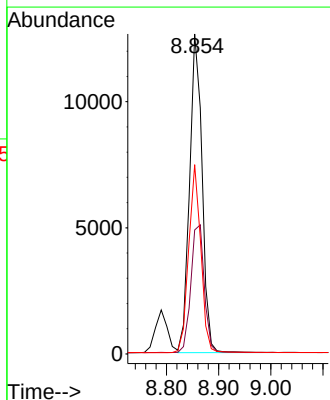
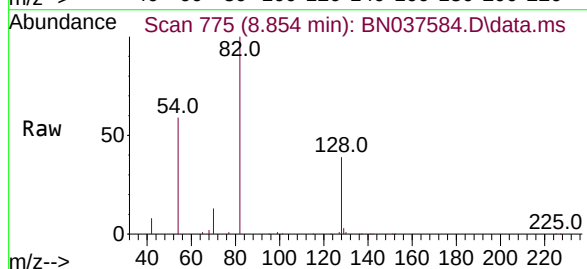
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5152  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.2  | 9.5   | 14.3  |
| 54       | 8.9   | 7.3   | 10.9  |
| 68       | 6.3   | 5.1   | 7.7   |

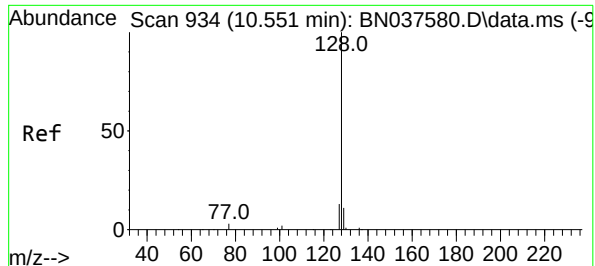


#8  
Nitrobenzene-d5  
Concen: 5.784 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 20990 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 38.7  | 32.6  | 48.8  |
| 54       | 59.1  | 48.9  | 73.3  |



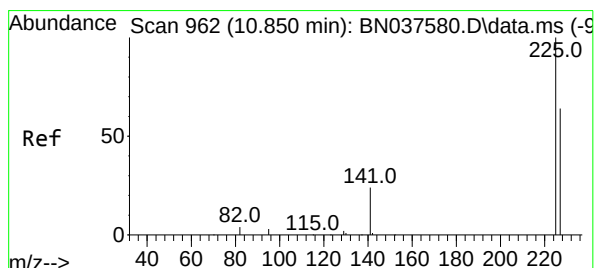
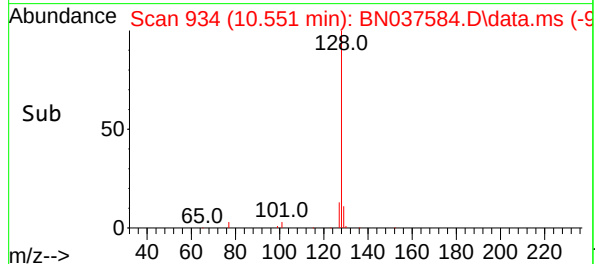
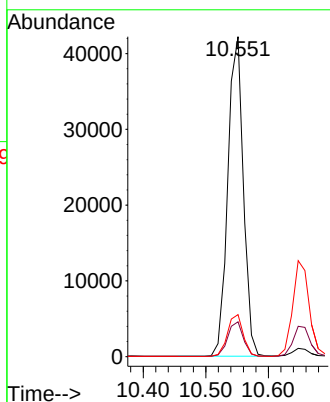
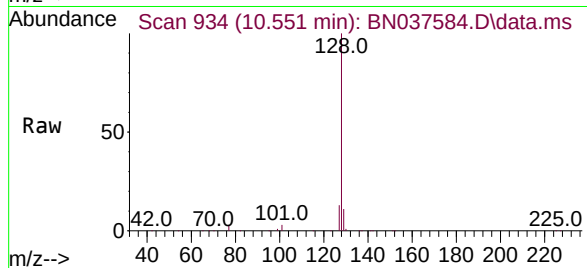




#9  
Naphthalene  
Concen: 5.293 ng  
RT: 10.551 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

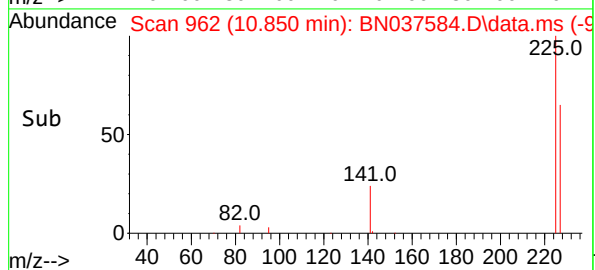
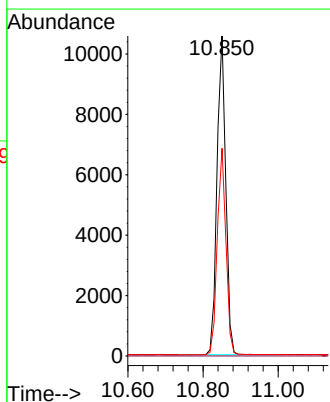
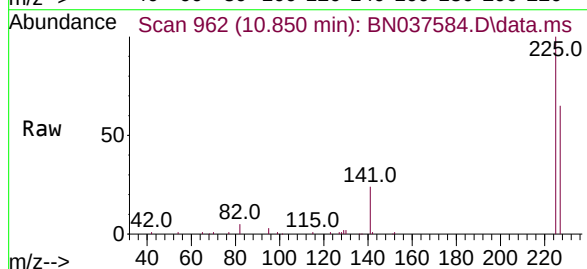
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

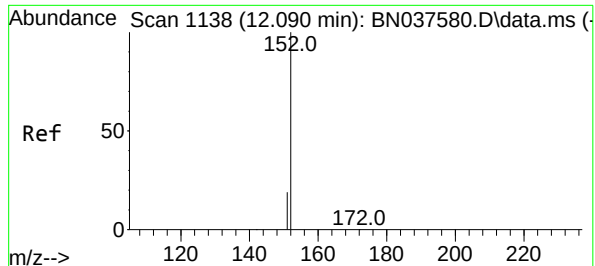
Tgt Ion:128 Resp: 72603  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.8 14.6  
127 13.1 11.5 17.3



#10  
Hexachlorobutadiene  
Concen: 5.094 ng  
RT: 10.850 min Scan# 962  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Tgt Ion:225 Resp: 17071  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.8 50.8 76.2

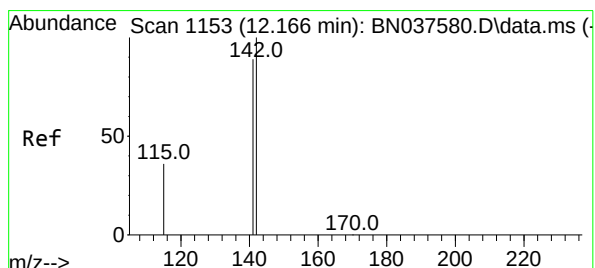
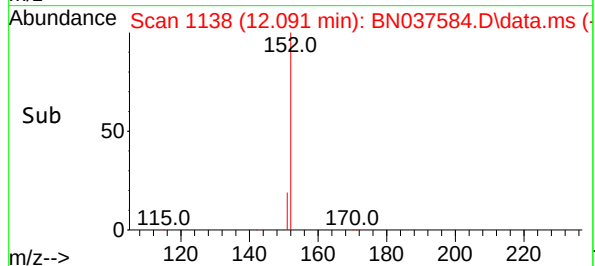
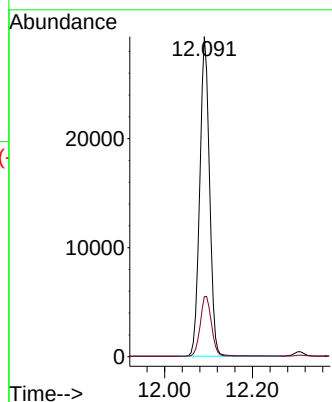
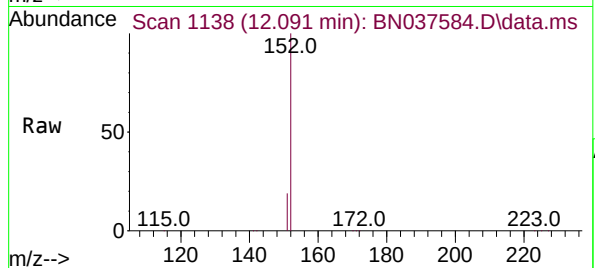




#11  
2-Methylnaphthalene-d10  
Concen: 6.480 ng  
RT: 12.091 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

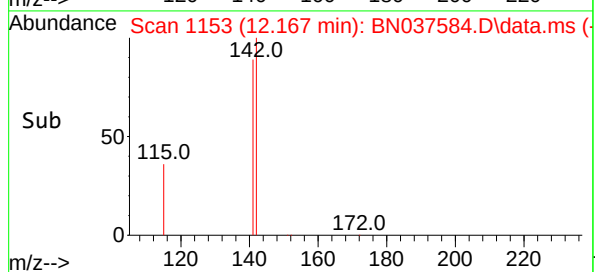
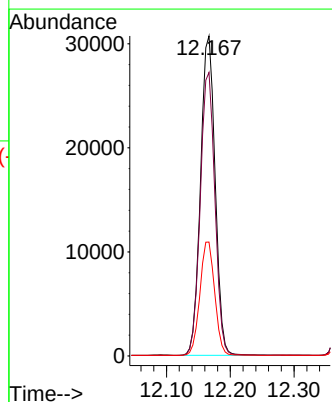
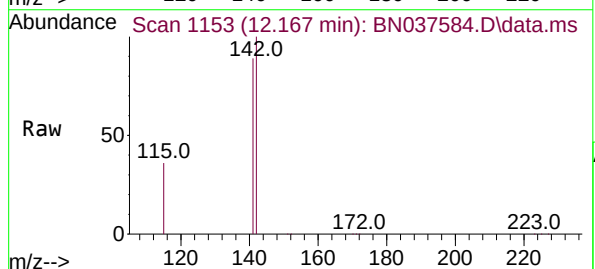
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

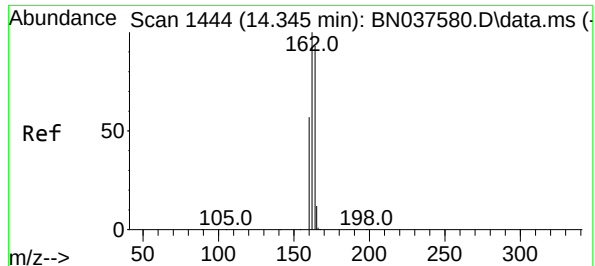
Tgt Ion:152 Resp: 45385  
Ion Ratio Lower Upper  
152 100  
151 21.4 17.3 25.9



#12  
2-Methylnaphthalene  
Concen: 5.686 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Tgt Ion:142 Resp: 48917  
Ion Ratio Lower Upper  
142 100  
141 88.6 71.4 107.0  
115 35.6 30.2 45.4

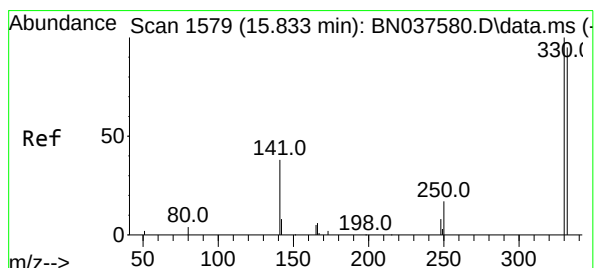
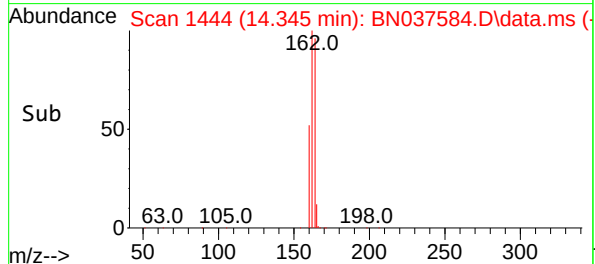
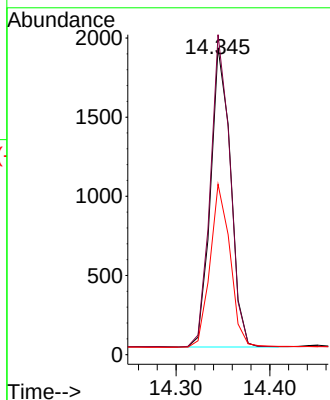
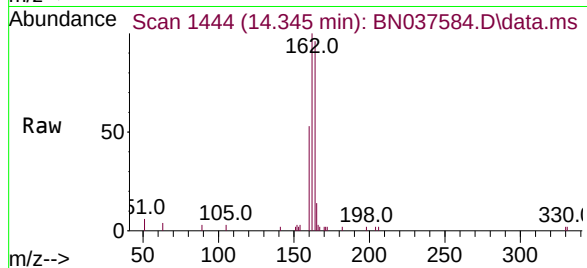




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

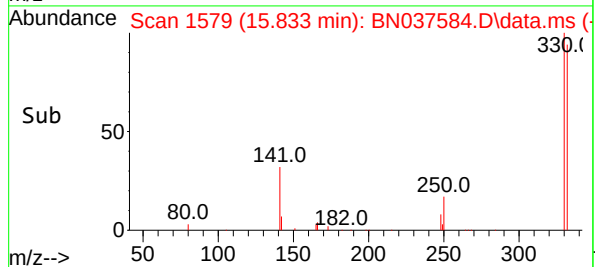
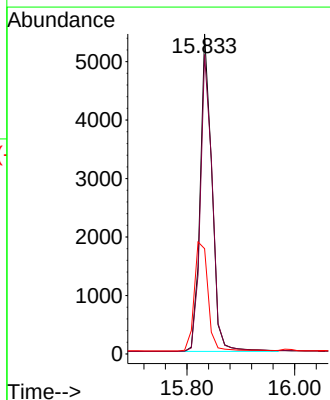
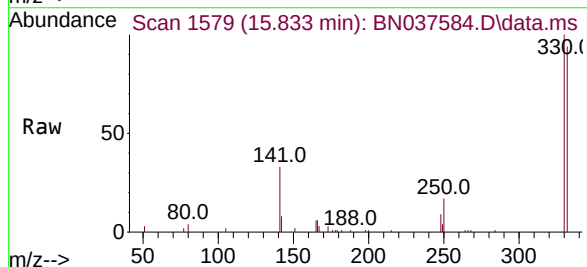
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

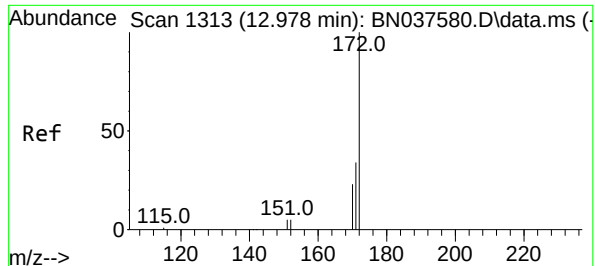
Tgt Ion:164 Resp: 2803  
Ion Ratio Lower Upper  
164 100  
162 104.2 85.5 128.3  
160 55.5 49.5 74.3



#14  
2,4,6-Tribromophenol  
Concen: 6.672 ng  
RT: 15.833 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Tgt Ion:330 Resp: 8185  
Ion Ratio Lower Upper  
330 100  
332 96.2 77.4 116.0  
141 40.7 30.9 46.3

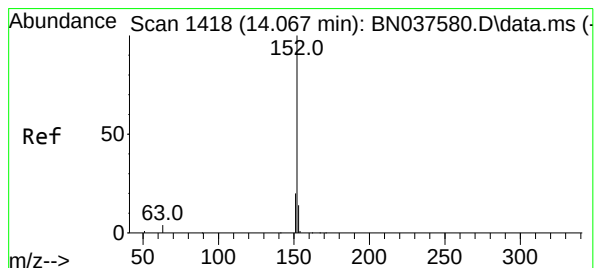
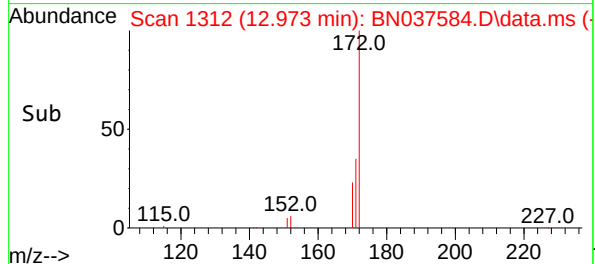
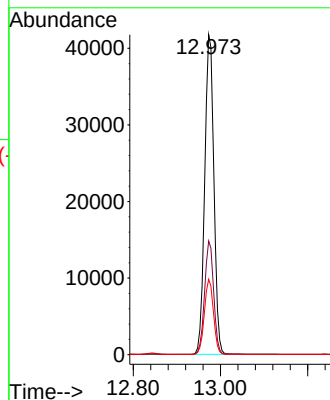
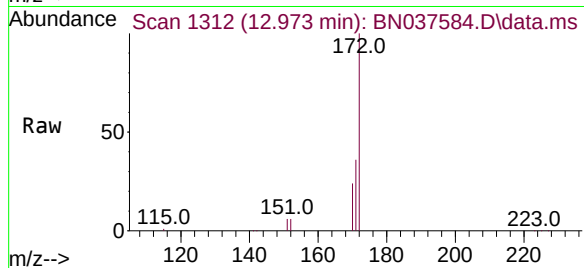




#15  
2-Fluorobiphenyl  
Concen: 5.273 ng  
RT: 12.973 min Scan# 1312  
Delta R.T. -0.005 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

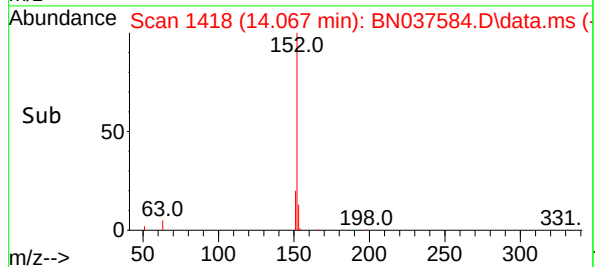
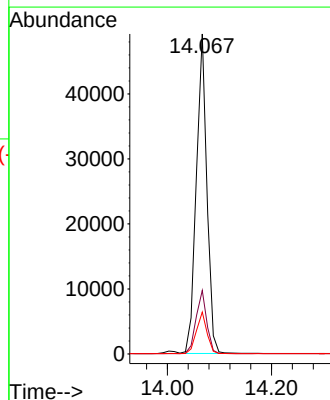
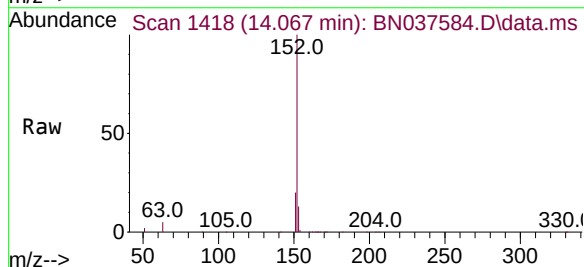
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

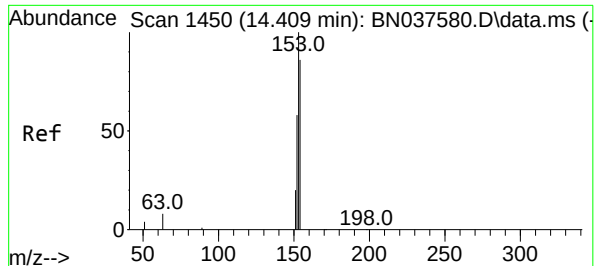
Tgt Ion:172 Resp: 85489  
Ion Ratio Lower Upper  
172 100  
171 35.6 28.2 42.4  
170 23.6 19.2 28.8



#16  
Acenaphthylene  
Concen: 5.521 ng  
RT: 14.067 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Tgt Ion:152 Resp: 69369  
Ion Ratio Lower Upper  
152 100  
151 20.0 16.1 24.1  
153 12.9 10.7 16.1

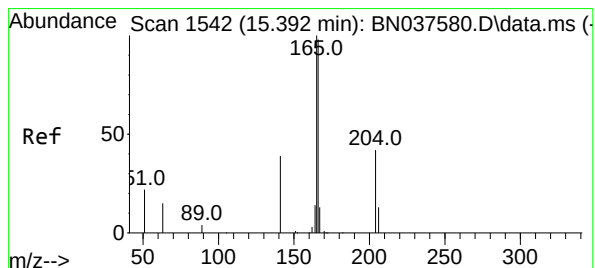
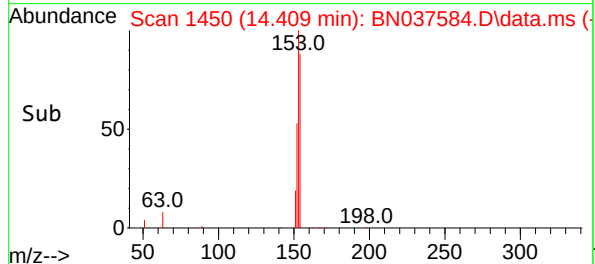
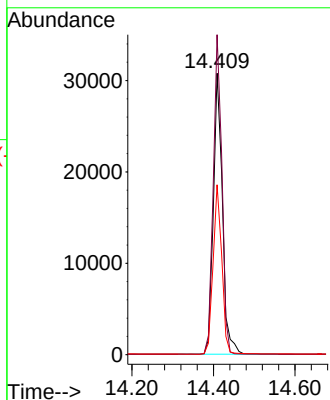
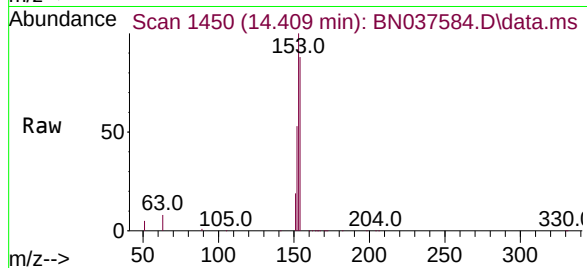




#17  
Acenaphthene  
Concen: 5.527 ng  
RT: 14.409 min Scan# 1450  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

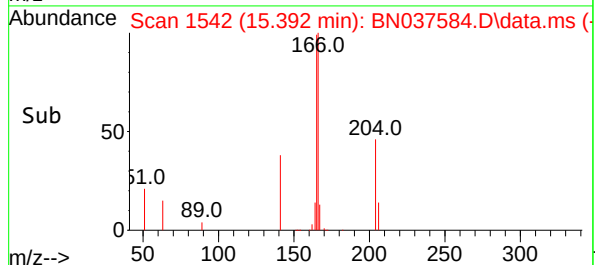
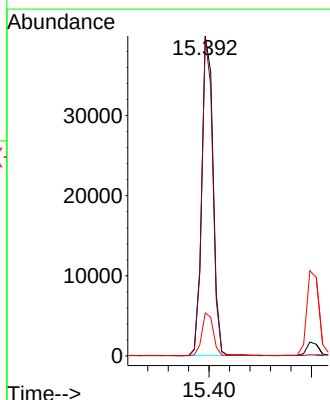
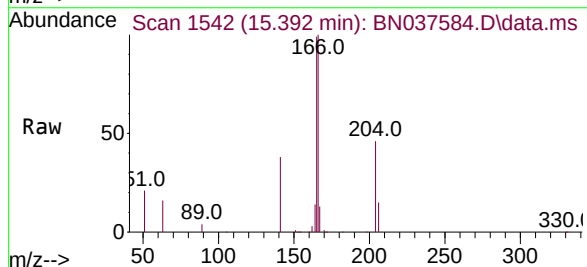
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

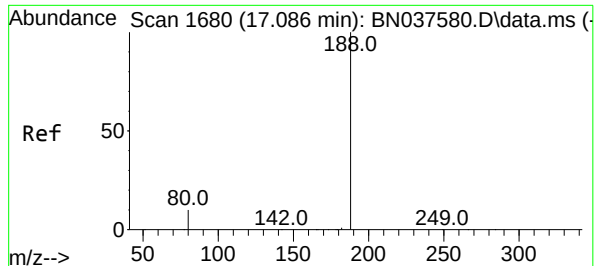
Tgt Ion:154 Resp: 47237  
Ion Ratio Lower Upper  
154 100  
153 108.5 90.6 135.8  
152 58.2 54.9 82.3



#18  
Fluorene  
Concen: 5.546 ng  
RT: 15.392 min Scan# 1542  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Tgt Ion:166 Resp: 62012  
Ion Ratio Lower Upper  
166 100  
165 97.8 78.9 118.3  
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

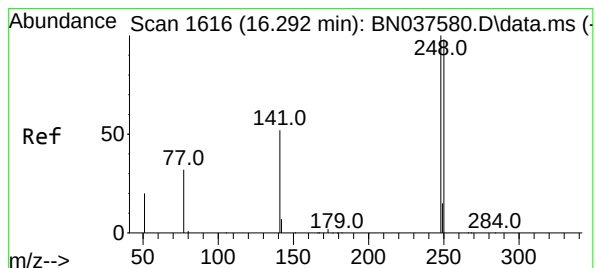
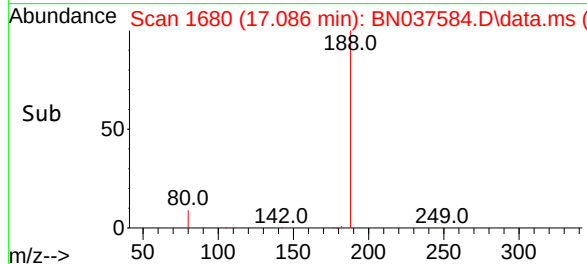
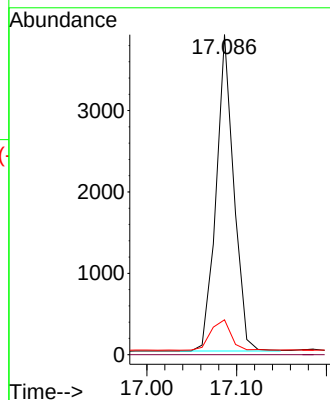
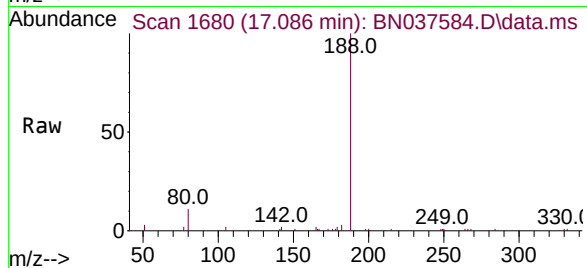
Tgt Ion:188 Resp: 5318

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.9 9.1 13.7



#21

4-Bromophenyl-phenylether

Concen: 5.809 ng

RT: 16.292 min Scan# 1616

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

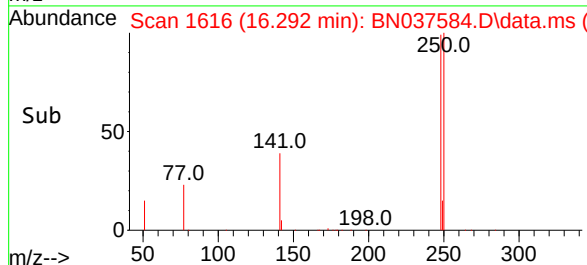
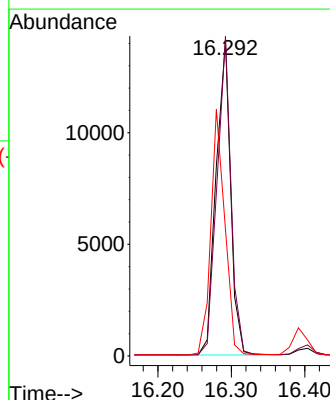
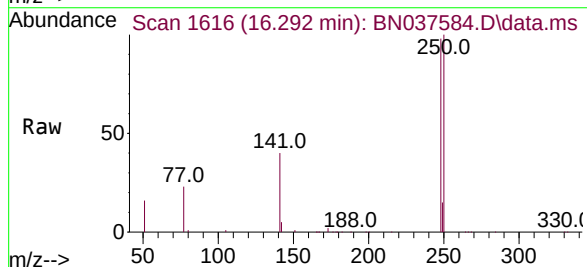
Tgt Ion:248 Resp: 19417

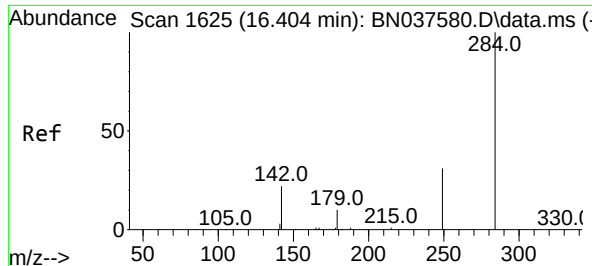
Ion Ratio Lower Upper

248 100

250 101.5 78.6 118.0

141 40.1 43.7 65.5#





#22

Hexachlorobenzene

Concen: 5.190 ng

RT: 16.404 min Scan# 1625

Delta R.T. -0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

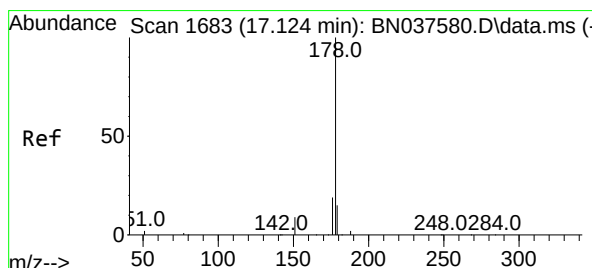
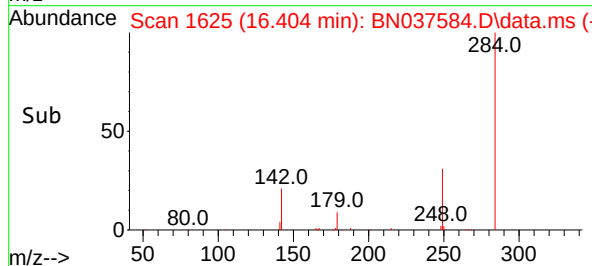
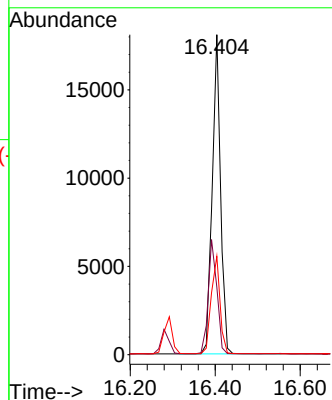
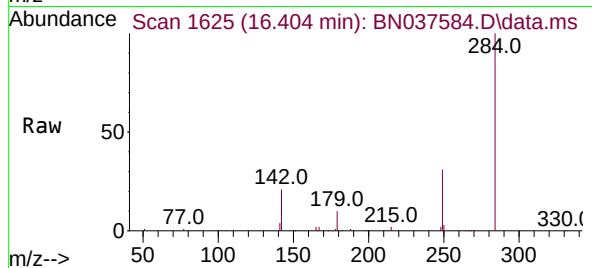
Tgt Ion:284 Resp: 24588

Ion Ratio Lower Upper

284 100

142 37.2 29.8 44.6

249 32.3 26.0 39.0



#25

Phenanthrene

Concen: 5.537 ng

RT: 17.124 min Scan# 1683

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

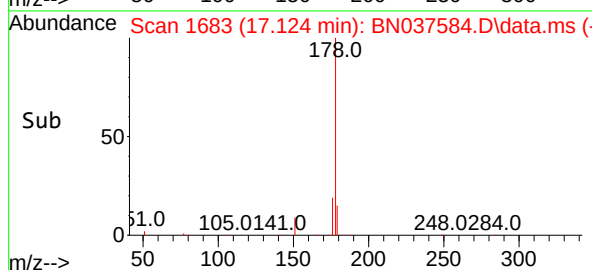
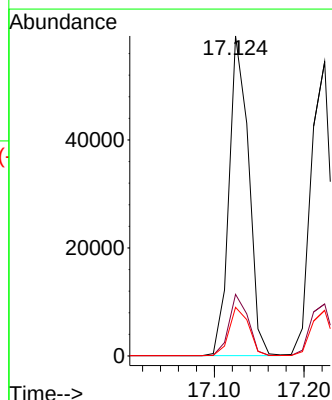
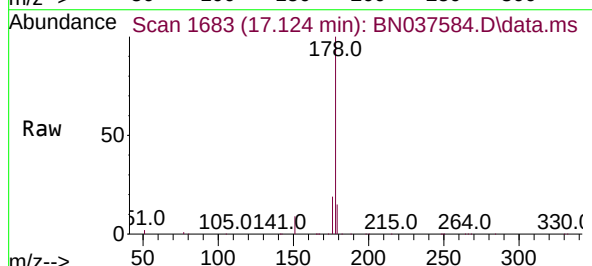
Tgt Ion:178 Resp: 89516

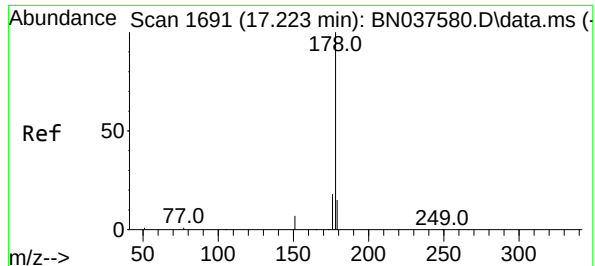
Ion Ratio Lower Upper

178 100

176 18.8 15.0 22.6

179 15.3 12.3 18.5

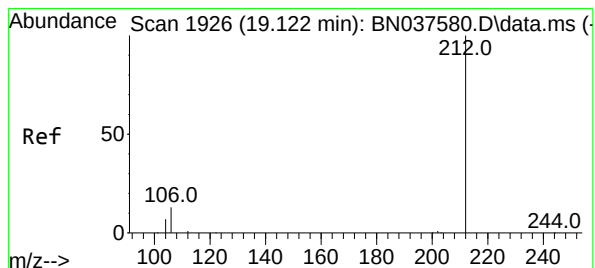
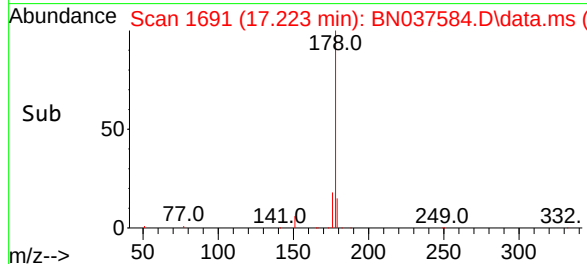
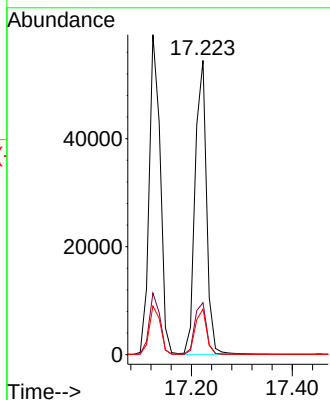
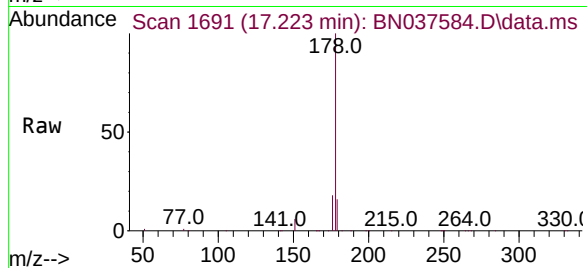




#26  
Anthracene  
Concen: 5.972 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

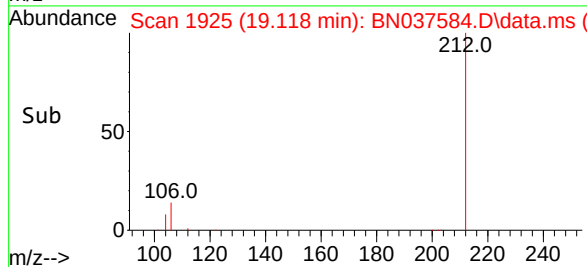
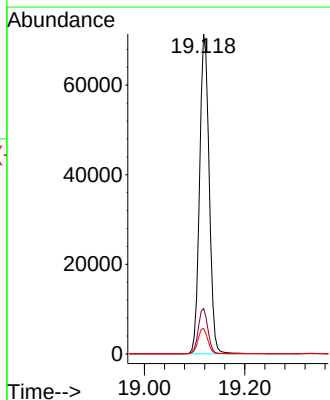
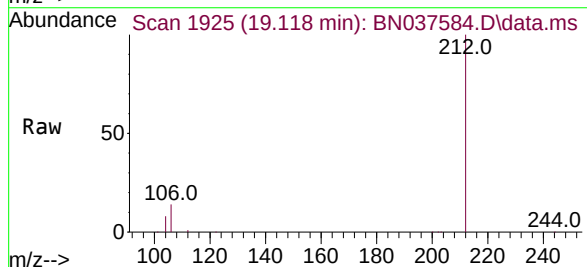
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 178     | 100   |       |       |
| 176     | 18.2  | 14.7  | 22.1  |
| 179     | 15.4  | 12.3  | 18.5  |

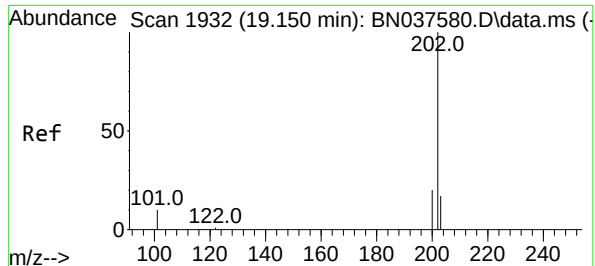


#27  
Fluoranthene-d10  
Concen: 6.743 ng  
RT: 19.118 min Scan# 1925  
Delta R.T. -0.005 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 14.2  | 11.5  | 17.3  |
| 104     | 8.0   | 6.6   | 9.8   |



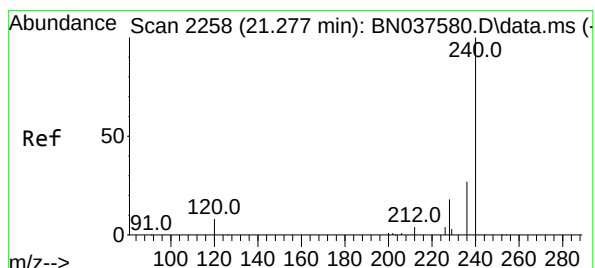
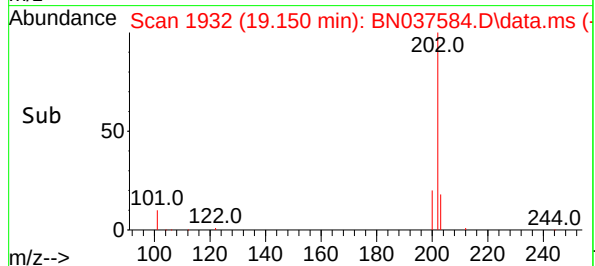
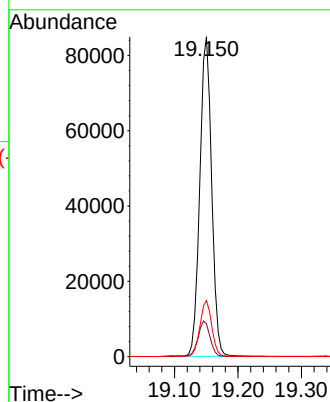
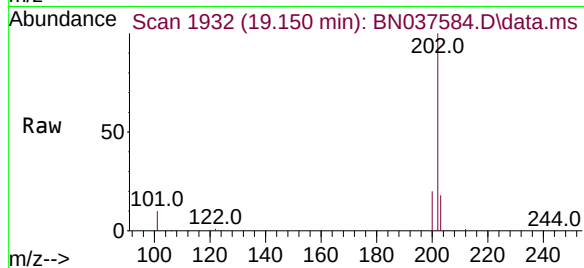




#28  
Fluoranthene  
Concen: 5.900 ng  
RT: 19.150 min Scan# 1932  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

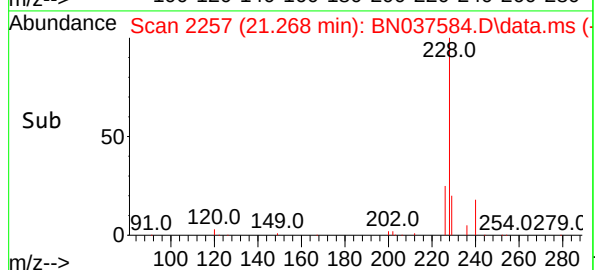
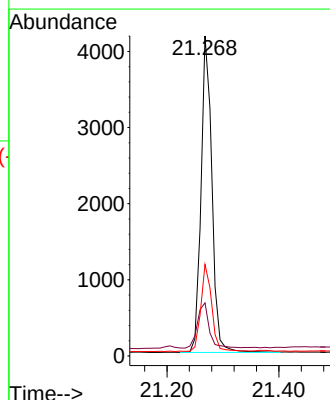
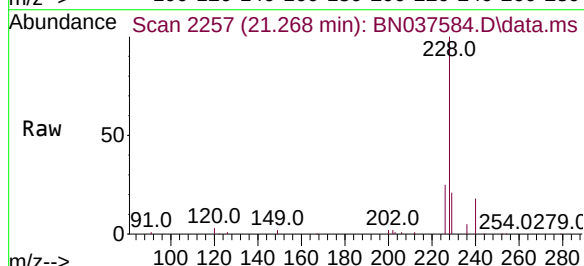
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

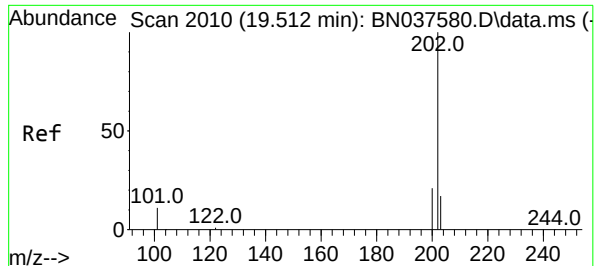
Tgt Ion:202 Resp: 109583  
Ion Ratio Lower Upper  
202 100  
101 11.4 9.0 13.6  
203 17.4 13.8 20.8



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.268 min Scan# 2257  
Delta R.T. -0.009 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Tgt Ion:240 Resp: 5600  
Ion Ratio Lower Upper  
240 100  
120 16.6 8.9 13.3#  
236 28.6 22.6 33.8

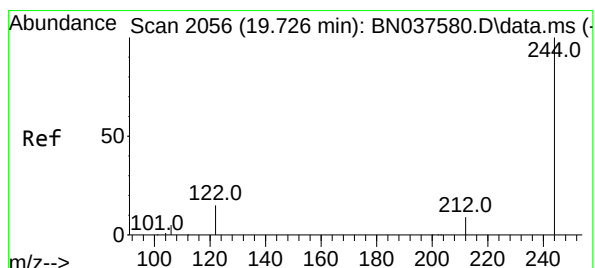
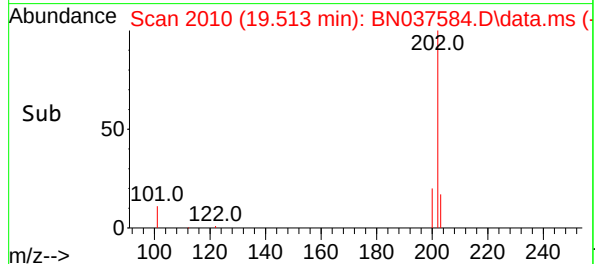
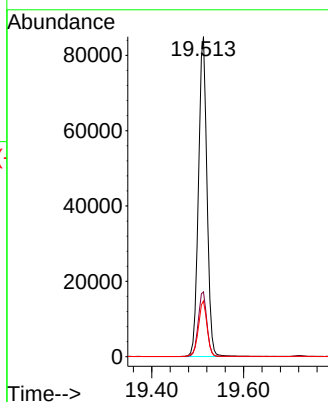
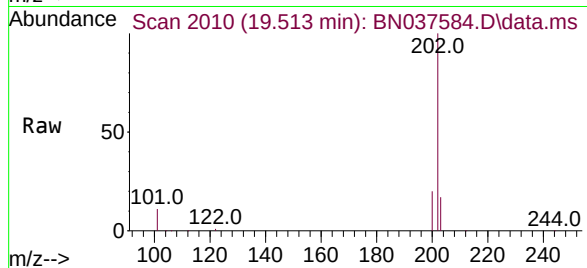




#30  
Pyrene  
Concen: 5.190 ng  
RT: 19.513 min Scan# 2010  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

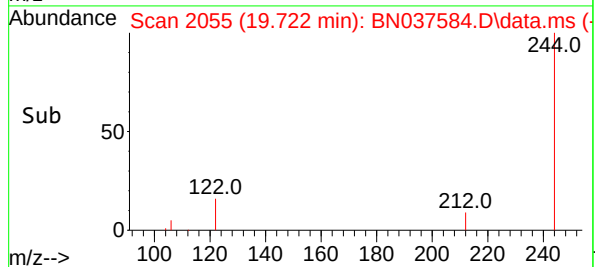
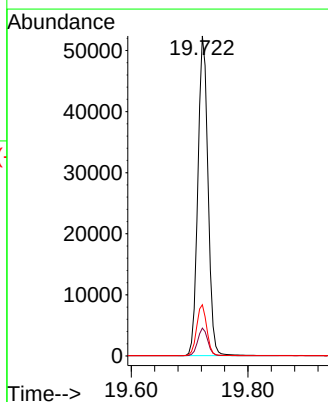
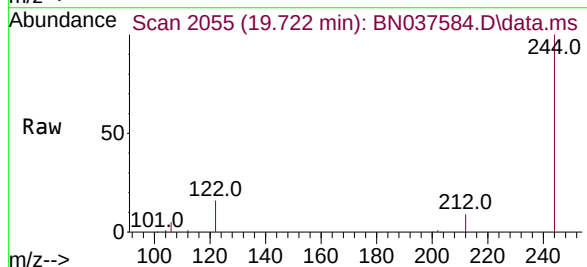
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

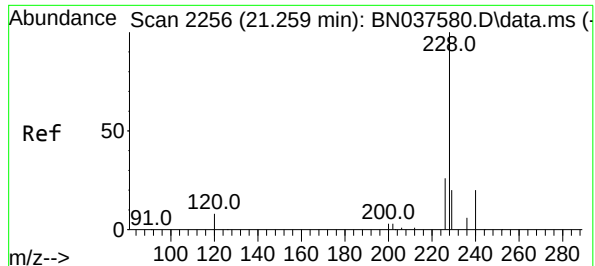
Tgt Ion:202 Resp: 108658  
Ion Ratio Lower Upper  
202 100  
200 20.6 16.6 25.0  
203 17.8 14.3 21.5



#31  
Terphenyl-d14  
Concen: 5.477 ng  
RT: 19.722 min Scan# 2055  
Delta R.T. -0.005 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Tgt Ion:244 Resp: 63100  
Ion Ratio Lower Upper  
244 100  
212 8.7 8.2 12.2  
122 16.0 13.2 19.8

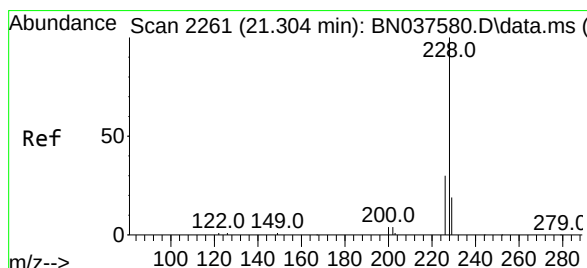
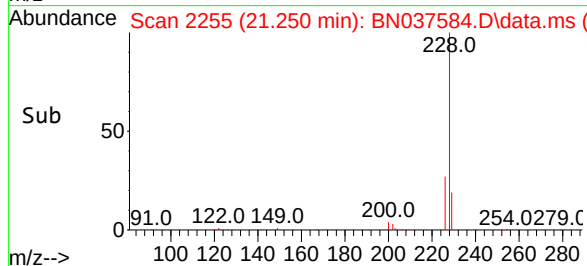
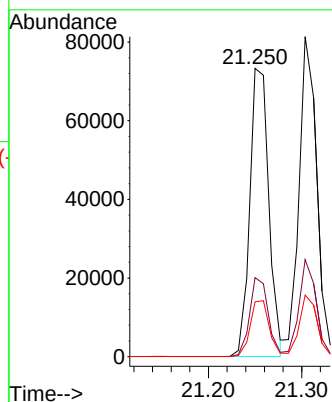
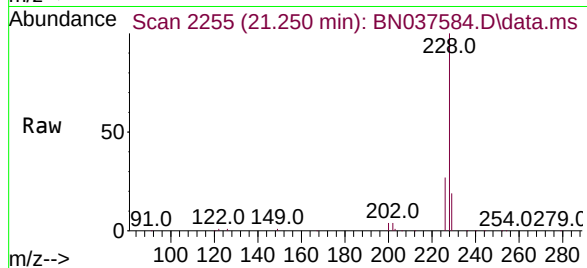




#32  
Benzo(a)anthracene  
Concen: 5.564 ng  
RT: 21.250 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

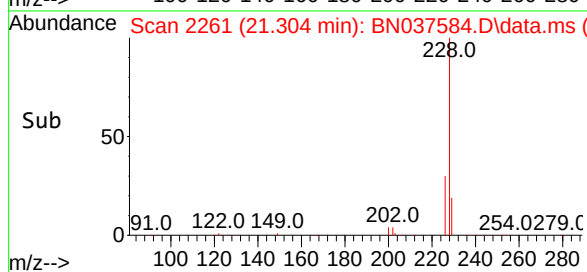
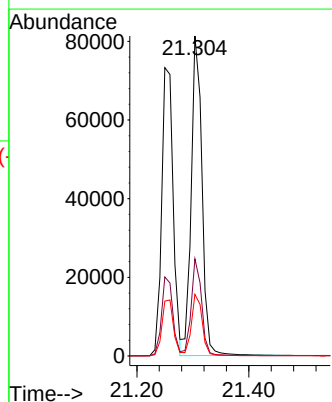
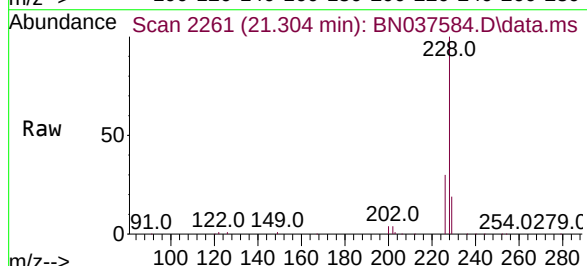
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

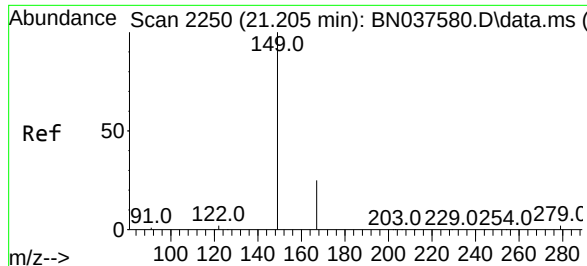
Tgt Ion:228 Resp: 104084  
Ion Ratio Lower Upper  
228 100  
226 27.4 21.5 32.3  
229 19.0 16.5 24.7



#33  
Chrysene  
Concen: 5.207 ng  
RT: 21.304 min Scan# 2261  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Tgt Ion:228 Resp: 108554  
Ion Ratio Lower Upper  
228 100  
226 30.4 24.9 37.3  
229 19.2 15.8 23.8

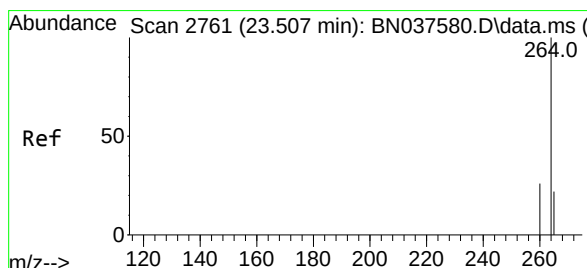
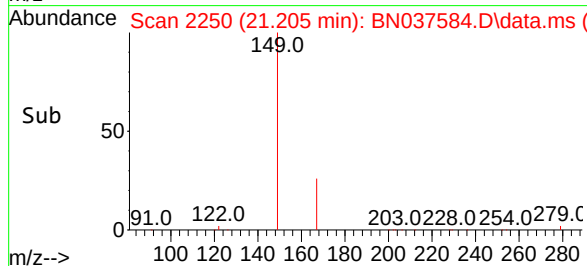
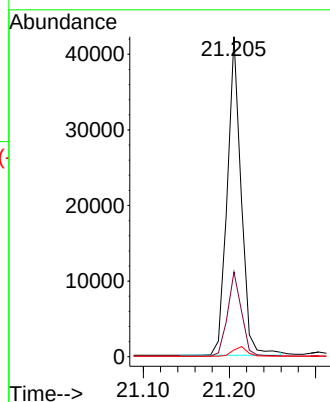
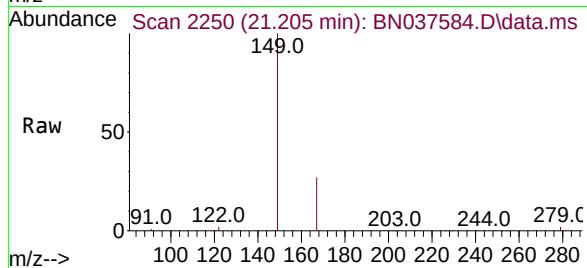




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 6.087 ng  
RT: 21.205 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

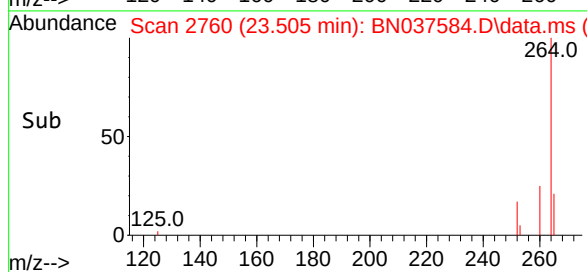
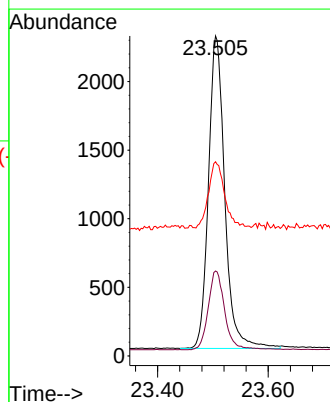
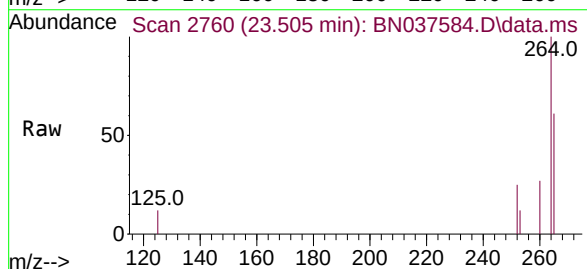
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

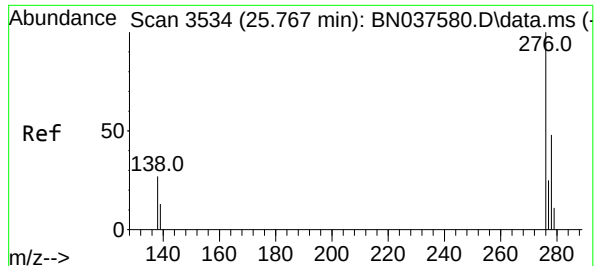
Tgt Ion:149 Resp: 46994  
Ion Ratio Lower Upper  
149 100  
167 26.4 20.5 30.7  
279 3.1 2.6 4.0



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.505 min Scan# 2760  
Delta R.T. -0.003 min  
Lab File: BN037584.D  
Acq: 12 Aug 2025 20:05

Tgt Ion:264 Resp: 4653  
Ion Ratio Lower Upper  
264 100  
260 26.5 21.6 32.4  
265 60.7 48.2 72.4





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.965 ng

RT: 25.768 min Scan# 3534

Delta R.T. 0.000 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

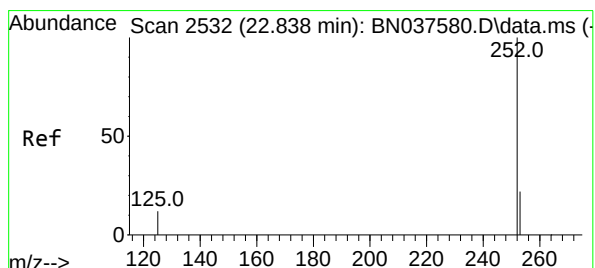
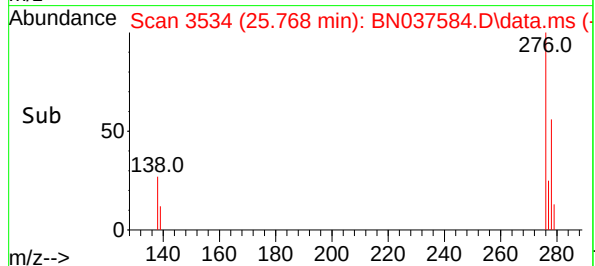
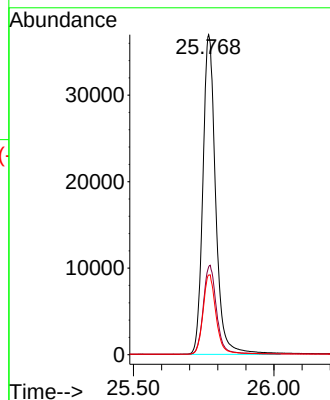
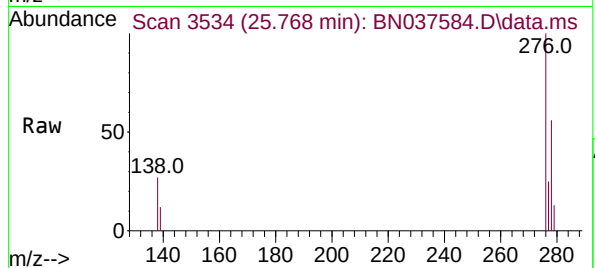
Tgt Ion:276 Resp: 116962

Ion Ratio Lower Upper

276 100

138 28.5 23.3 34.9

277 25.2 19.5 29.3



#37

Benzo(b)fluoranthene

Concen: 6.019 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

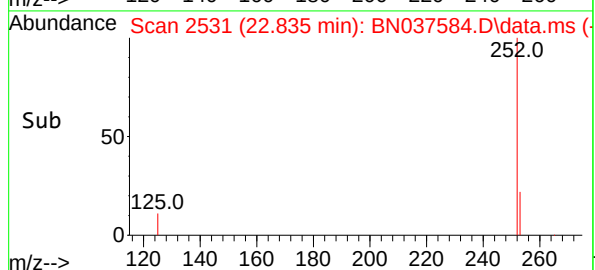
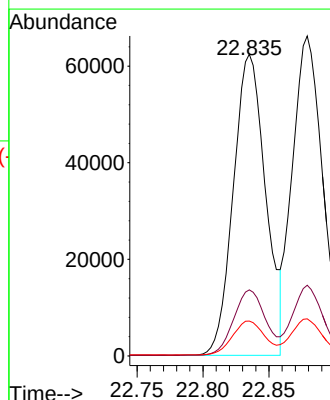
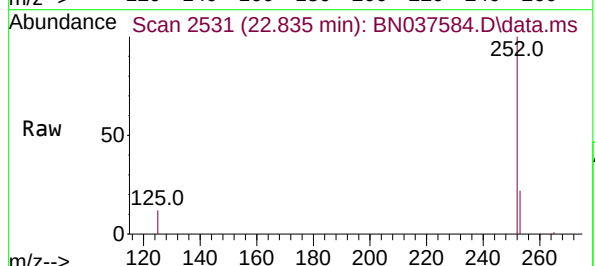
Tgt Ion:252 Resp: 106138

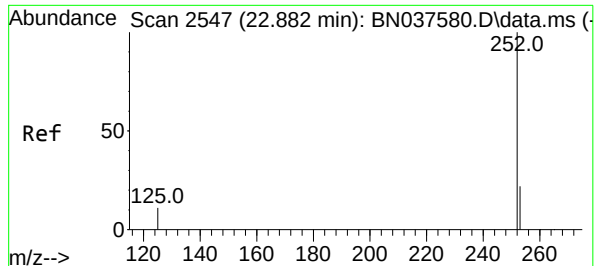
Ion Ratio Lower Upper

252 100

253 21.9 20.0 30.0

125 11.6 13.8 20.6#





#38

Benzo(k)fluoranthene

Concen: 5.548 ng

RT: 22.879 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037584.D

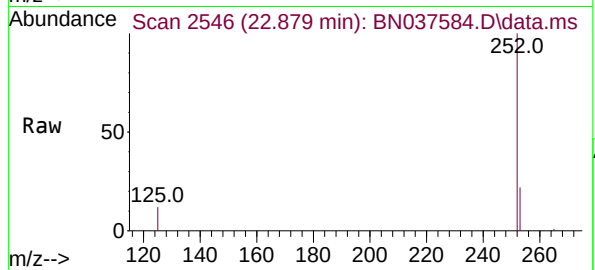
Acq: 12 Aug 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



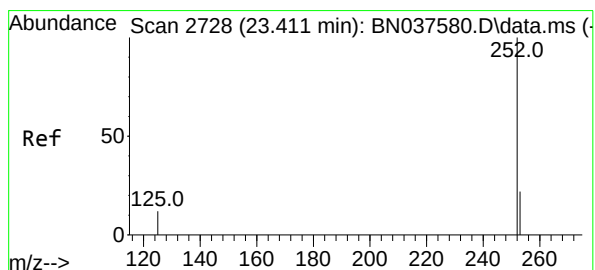
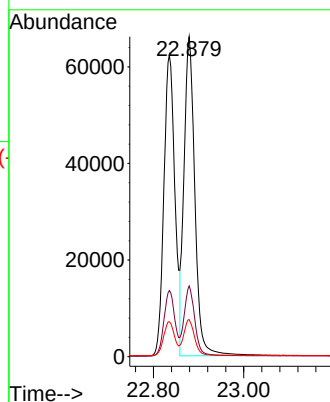
Tgt Ion:252 Resp: 110373

Ion Ratio Lower Upper

252 100

253 22.1 19.9 29.9

125 11.6 15.0 22.6#



#39

Benzo(a)pyrene

Concen: 5.997 ng

RT: 23.408 min Scan# 2727

Delta R.T. -0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

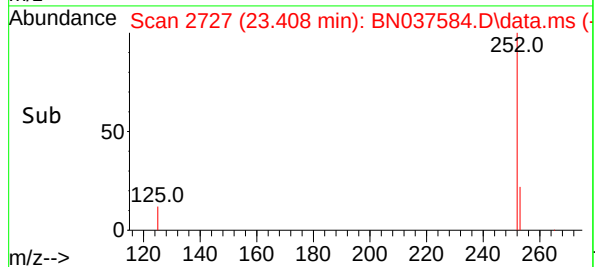
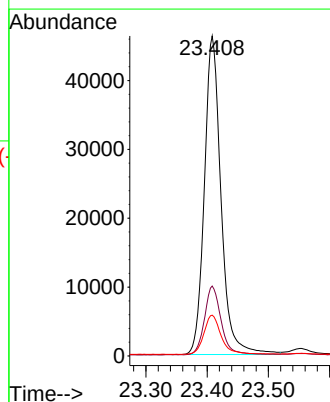
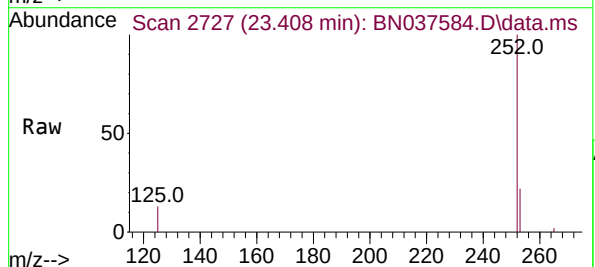
Tgt Ion:252 Resp: 87699

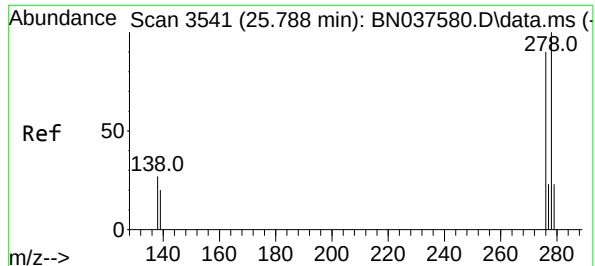
Ion Ratio Lower Upper

252 100

253 21.8 21.6 32.4

125 12.8 16.8 25.2#





#40

Dibenzo(a,h)anthracene

Concen: 6.197 ng

RT: 25.782 min Scan# 3541

Delta R.T. -0.006 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

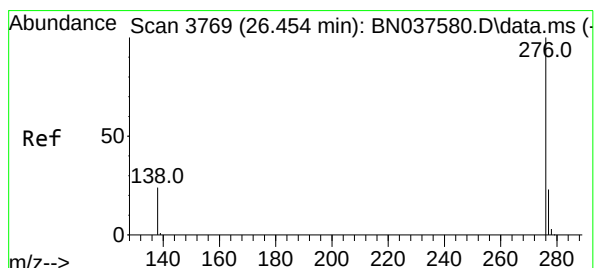
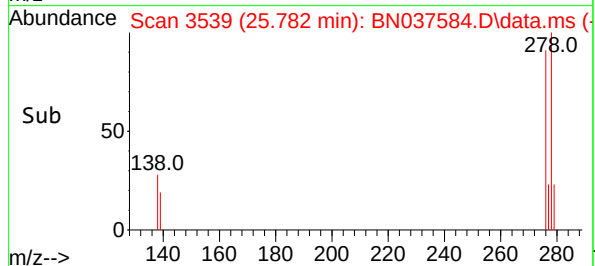
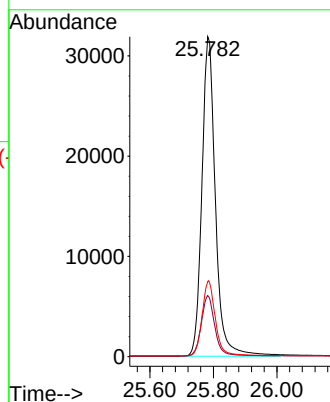
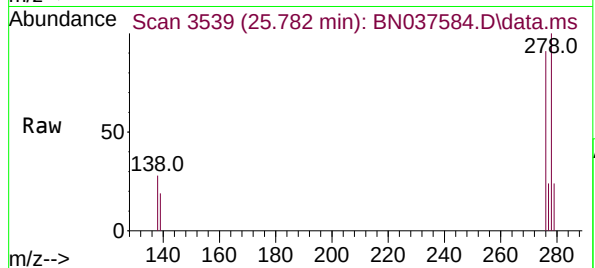
Tgt Ion:278 Resp: 94267

Ion Ratio Lower Upper

278 100

139 19.1 18.3 27.5

279 23.6 22.5 33.7



#41

Benzo(g,h,i)perylene

Concen: 5.960 ng

RT: 26.458 min Scan# 3770

Delta R.T. 0.003 min

Lab File: BN037584.D

Acq: 12 Aug 2025 20:05

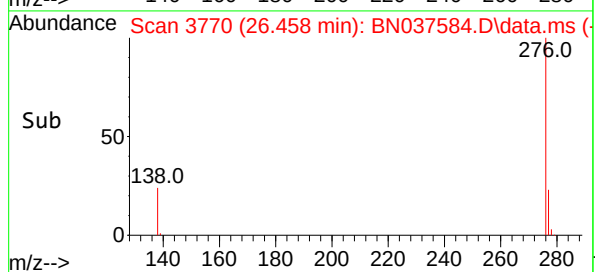
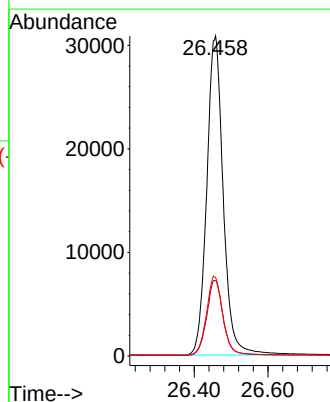
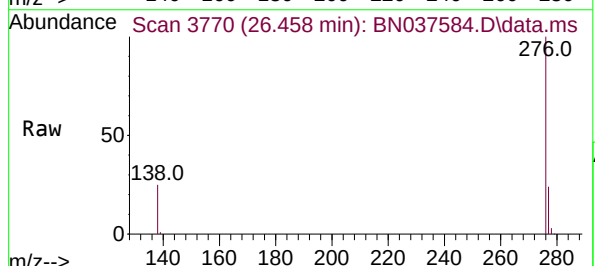
Tgt Ion:276 Resp: 95537

Ion Ratio Lower Upper

276 100

277 23.6 21.0 31.4

138 24.5 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
 Data File : BN037585.D  
 Acq On : 12 Aug 2025 20:42  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN081225

Quant Time: Aug 13 05:03:37 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 1850     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 4517     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2241     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.087 | 188  | 4564     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 4001     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.511 | 264  | 3490     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 1785     | 0.426 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.880  | 99   | 2272     | 0.450 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 1408     | 0.443 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.091 | 152  | 2611     | 0.425 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 358      | 0.365 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 5746     | 0.443 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.118 | 212  | 4866     | 0.405 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.727 | 244  | 3884     | 0.472 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.240  | 88   | 889      | 0.502 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.543  | 42   | 1054     | 0.466 | ng    | 98       |
| 6) bis(2-Chloroethyl)ether    | 7.140  | 93   | 1993     | 0.438 | ng    | 99       |
| 9) Naphthalene                | 10.552 | 128  | 4985     | 0.415 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.851 | 225  | 1259     | 0.429 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.167 | 142  | 2809     | 0.372 | ng    | 98       |
| 16) Acenaphthylene            | 14.067 | 152  | 4504     | 0.448 | ng    | 99       |
| 17) Acenaphthene              | 14.409 | 154  | 2768     | 0.405 | ng    | 99       |
| 18) Fluorene                  | 15.393 | 166  | 3592     | 0.402 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.467 | 198  | 209      | 0.433 | ng    | 97       |
| 21) 4-Bromophenyl-phenylether | 16.292 | 248  | 1147     | 0.400 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.404 | 284  | 1702     | 0.419 | ng    | 99       |
| 23) Atrazine                  | 16.553 | 200  | 681      | 0.420 | ng    | 98       |
| 24) Pentachlorophenol         | 16.739 | 266  | 484      | 0.339 | ng    | 96       |
| 25) Phenanthrene              | 17.124 | 178  | 5612     | 0.404 | ng    | 100      |
| 26) Anthracene                | 17.223 | 178  | 4939     | 0.402 | ng    | 99       |
| 28) Fluoranthene              | 19.150 | 202  | 6097     | 0.382 | ng    | 100      |
| 30) Pyrene                    | 19.513 | 202  | 5925     | 0.396 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.259 | 228  | 5497     | 0.411 | ng    | 100      |
| 33) Chrysene                  | 21.304 | 228  | 6035     | 0.405 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 2306     | 0.418 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.765 | 276  | 6028     | 0.410 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.835 | 252  | 5410     | 0.409 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.879 | 252  | 6026     | 0.404 | ng    | 99       |
| 39) Benzo(a)pyrene            | 23.408 | 252  | 4761     | 0.434 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.788 | 278  | 4571     | 0.401 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 26.458 | 276  | 4888     | 0.407 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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



**Instrument :**  
BNA\_N  
**ClientSampleId :**  
ICVBN081225

Abundance

TIC: BN037585.D\data.ms

Time-->

1,4-Dioxane  
n-Nitrosodimethylamine

2-Fluorophenol

Phenol-d6  
bis(2-Chloroethyl)ether

1,4-Dichlorobenzene-d4

Nitrobenzene-d5

Hexachlorobutadiene

Naphthalene-d8

2-Methylnaphthalene

2-Fluorobiphenyl

Acenaphthylene  
Acenaphthene-d10

Fluorene

4,6-Dinitro-2-methylphenol  
2,4,6-Tribromophenol

Hexachloro-2-methylphenyl-phenylether

Phenanthrene-d10  
Anthracene  
Phenanthrene

Fluoranthene  
Pyrene

Fluoranthene-d10

Terphenyl-d14

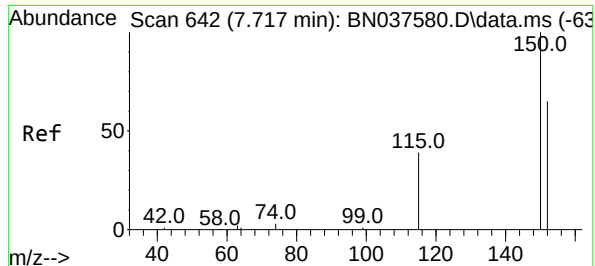
Bis(2-ethylhexyl)phthalate

Benzo(a)anthracene  
Benzo(b)fluoranthene

Perylene

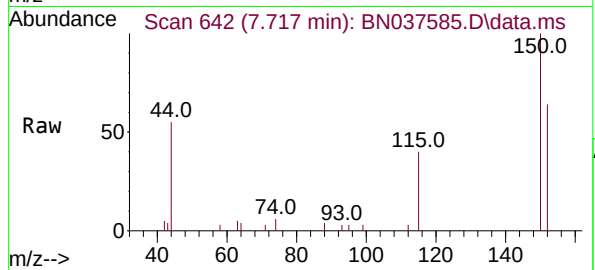
Benzo(g,h,i)perylene

Benzo(a)pyrene

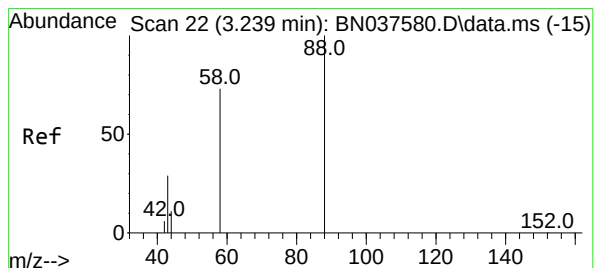
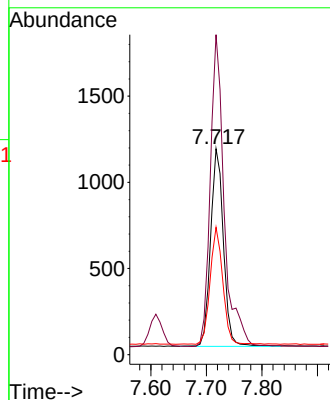


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN081225

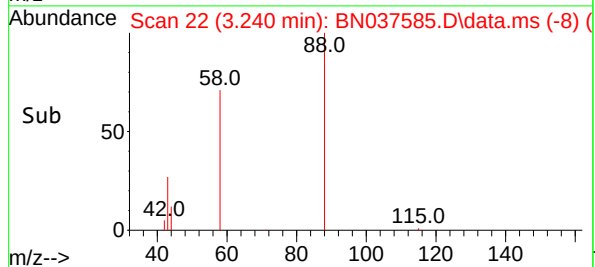
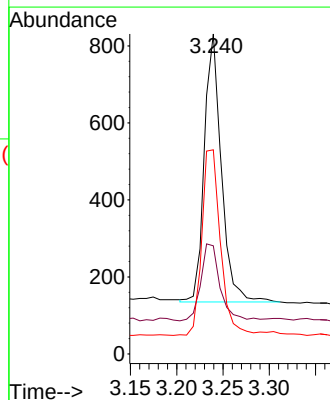
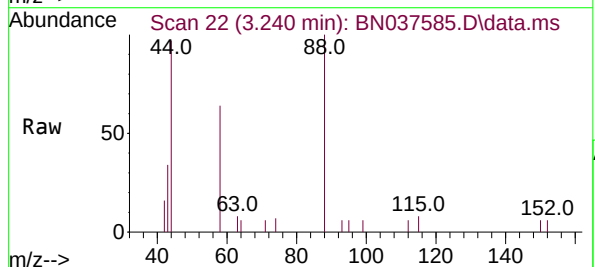


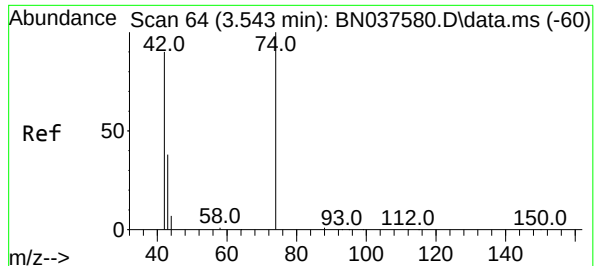
Tgt Ion: 152 Resp: 1850  
Ion Ratio Lower Upper  
152 100  
150 155.4 122.2 183.4  
115 61.8 49.8 74.6



#2  
1,4-Dioxane  
Concen: 0.502 ng  
RT: 3.240 min Scan# 22  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

Tgt Ion: 88 Resp: 889  
Ion Ratio Lower Upper  
88 100  
43 32.6 25.8 38.6  
58 76.0 61.2 91.8

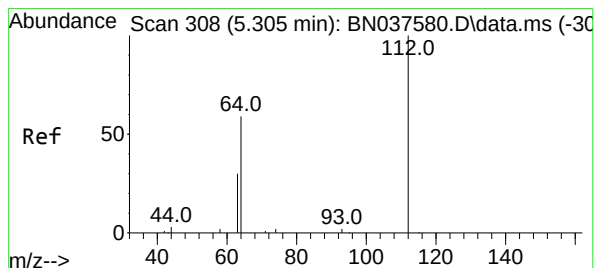
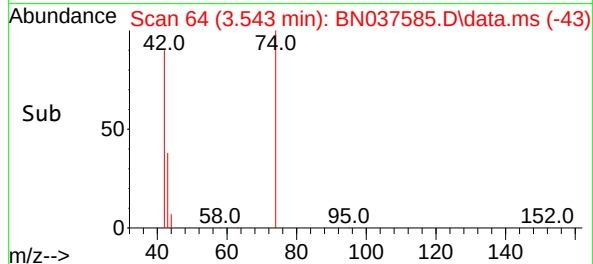
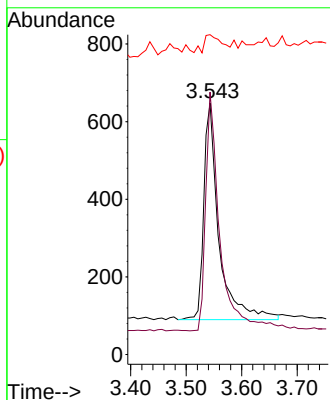
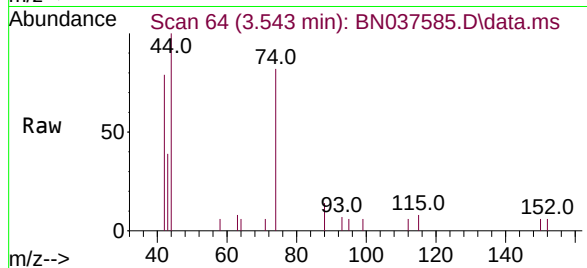




#3  
n-Nitrosodimethylamine  
Concen: 0.466 ng  
RT: 3.543 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

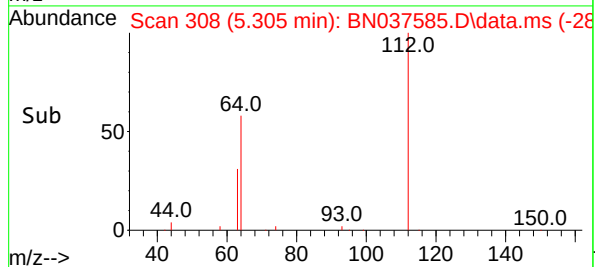
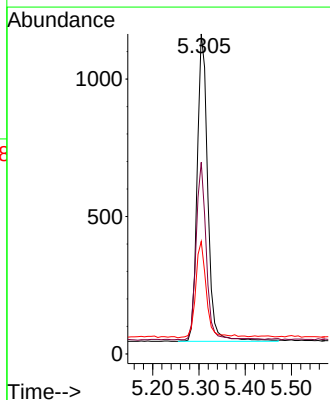
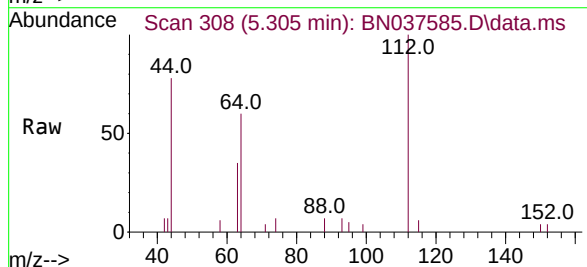
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN081225

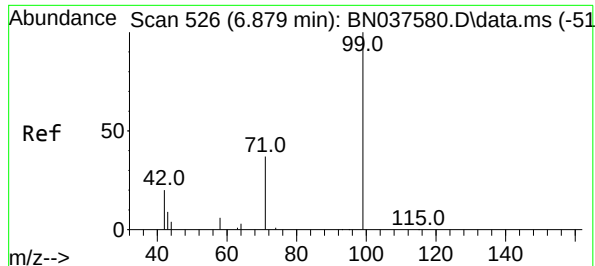
Tgt Ion: 42 Resp: 1054  
Ion Ratio Lower Upper  
42 100  
74 104.6 82.0 123.0  
44 9.7 7.9 11.9



#4  
2-Fluorophenol  
Concen: 0.426 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

Tgt Ion: 112 Resp: 1785  
Ion Ratio Lower Upper  
112 100  
64 55.4 44.9 67.3  
63 31.3 23.4 35.2

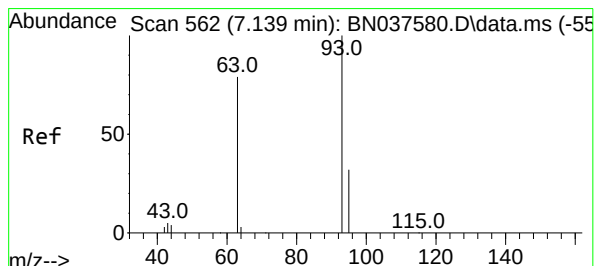
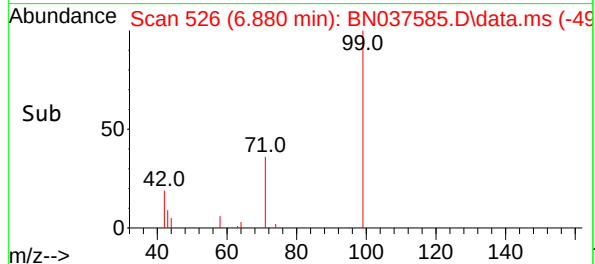
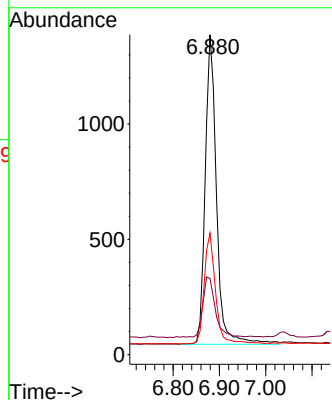
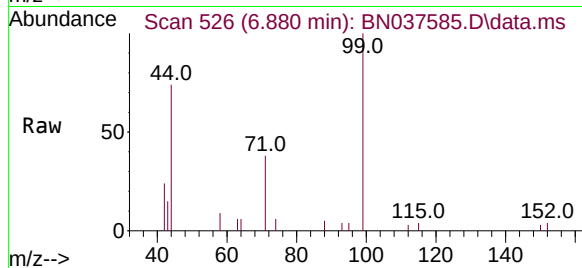




#5  
Phenol-d6  
Concen: 0.450 ng  
RT: 6.880 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

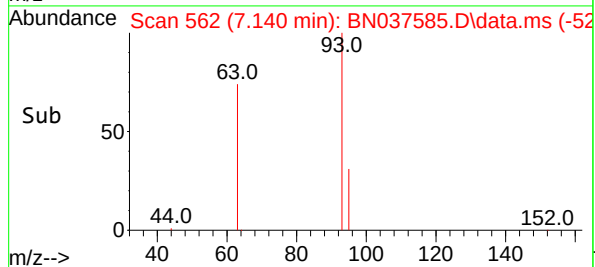
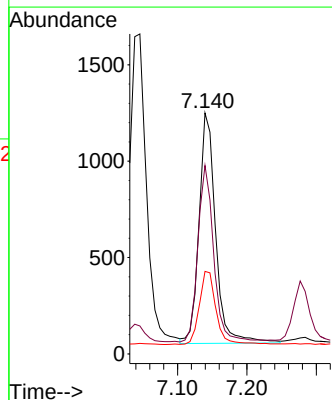
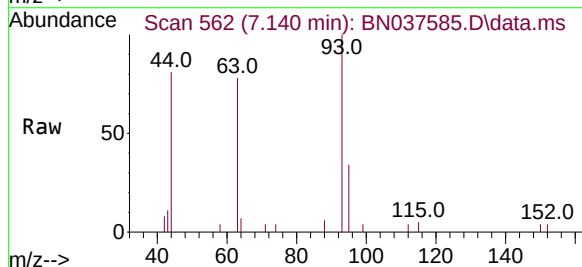
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN081225

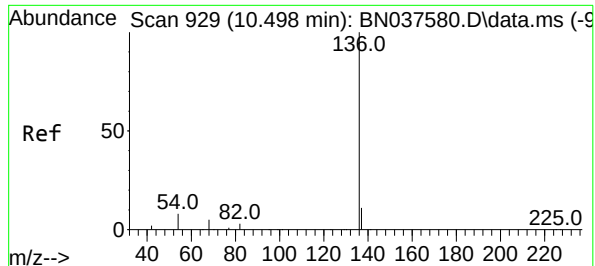
Tgt Ion: 99 Resp: 2272  
Ion Ratio Lower Upper  
99 100  
42 21.9 18.5 27.7  
71 35.6 28.6 42.8



#6  
bis(2-Chloroethyl)ether  
Concen: 0.438 ng  
RT: 7.140 min Scan# 562  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

Tgt Ion: 93 Resp: 1993  
Ion Ratio Lower Upper  
93 100  
63 72.5 58.0 87.0  
95 32.1 24.9 37.3





#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.498 min Scan# 91

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA\_N

ClientSampleId :

ICVBN081225

Tgt Ion:136 Resp: 4517

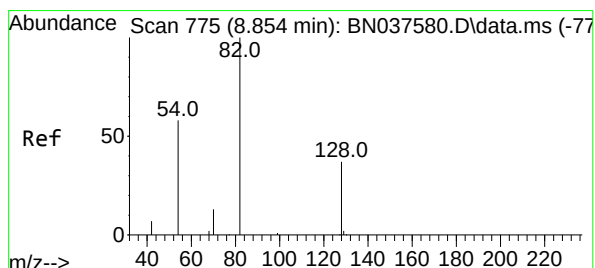
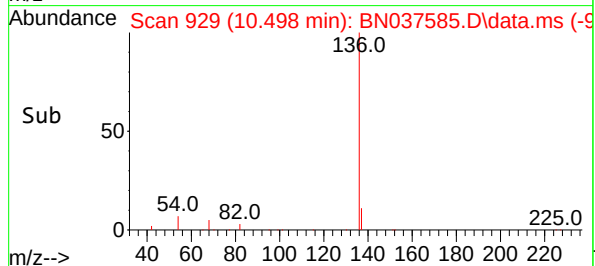
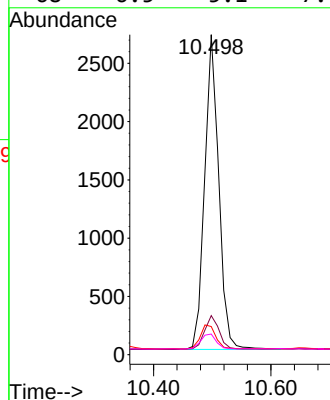
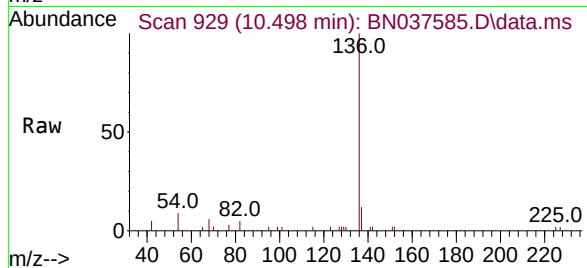
Ion Ratio Lower Upper

136 100

137 12.2 9.5 14.3

54 8.8 7.3 10.9

68 6.5 5.1 7.7



#8

Nitrobenzene-d5

Concen: 0.443 ng

RT: 8.854 min Scan# 775

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

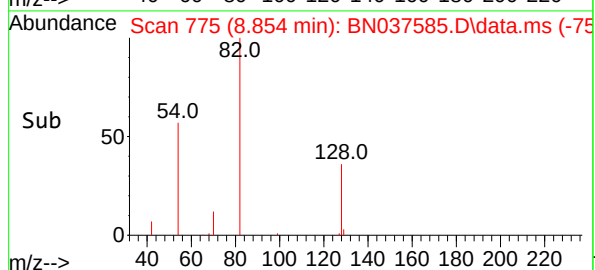
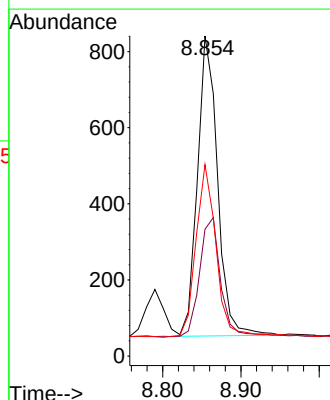
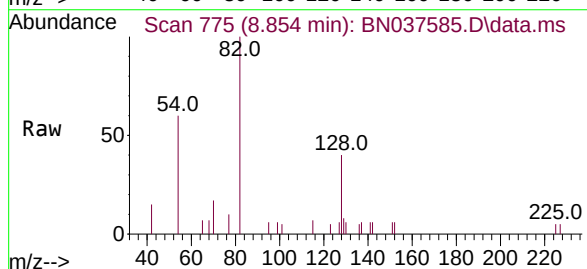
Tgt Ion: 82 Resp: 1408

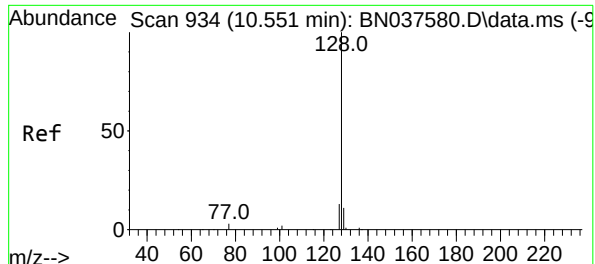
Ion Ratio Lower Upper

82 100

128 39.6 32.6 48.8

54 59.8 48.9 73.3

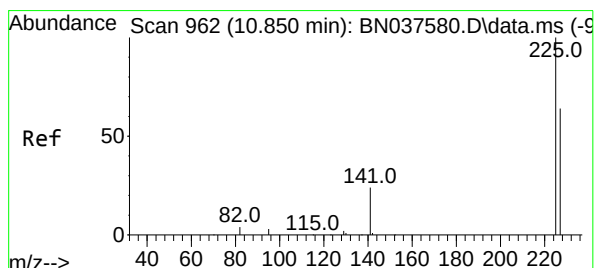
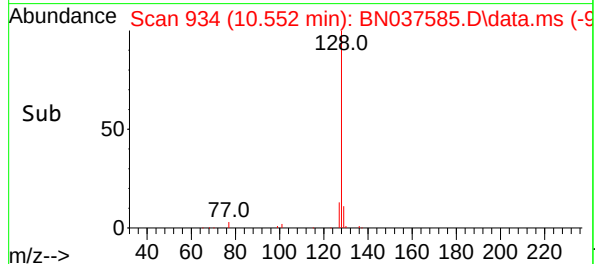
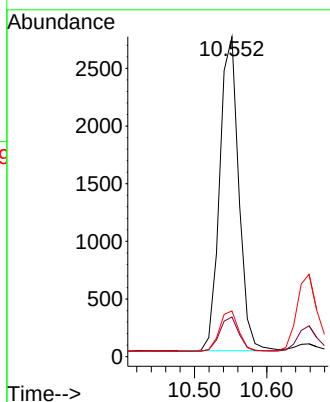
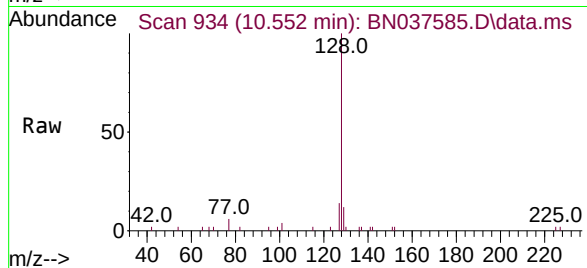




#9  
Naphthalene  
Concen: 0.415 ng  
RT: 10.552 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

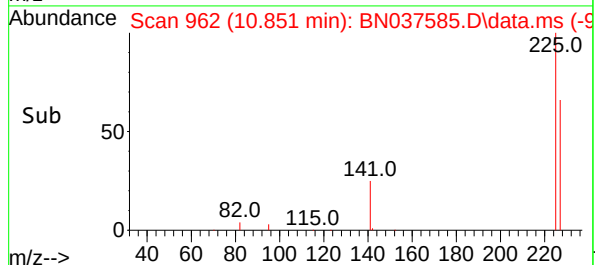
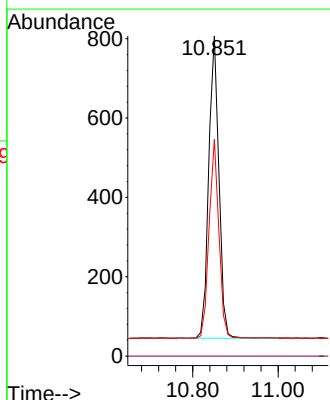
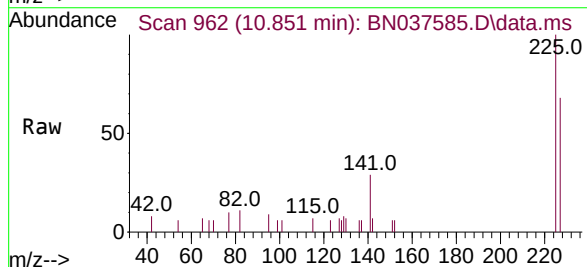
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN081225

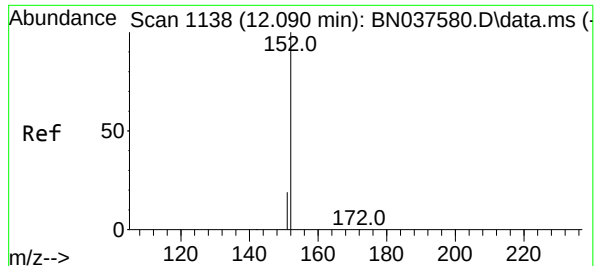
| Tgt Ion | 128   | Resp  | 4985  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 128     | 100   |       |       |
| 129     | 12.4  | 9.8   | 14.6  |
| 127     | 14.3  | 11.5  | 17.3  |



#10  
Hexachlorobutadiene  
Concen: 0.429 ng  
RT: 10.851 min Scan# 962  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

| Tgt Ion | 225   | Resp  | 1259  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 63.4  | 50.8  | 76.2  |

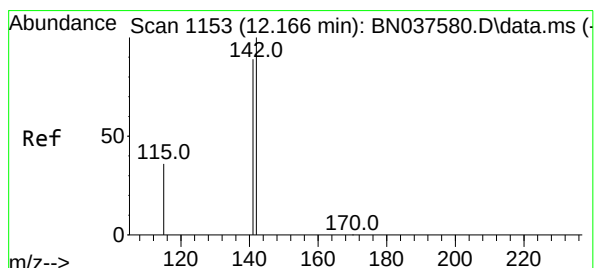
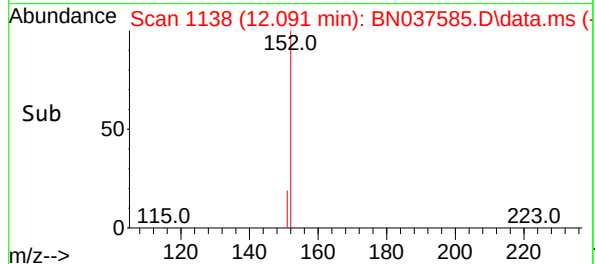
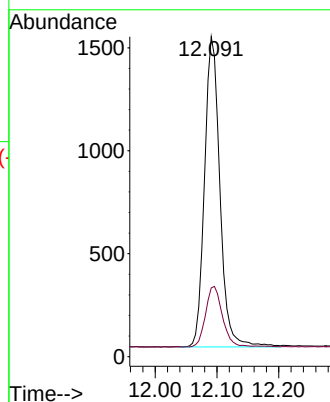
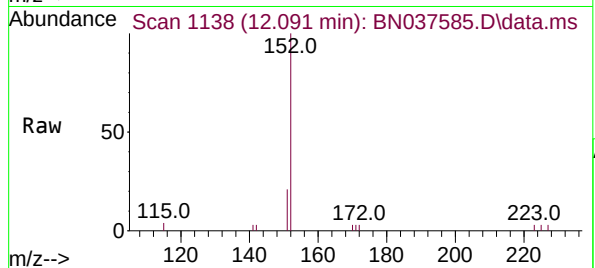




#11  
2-Methylnaphthalene-d10  
Concen: 0.425 ng  
RT: 12.091 min Scan# 1138  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

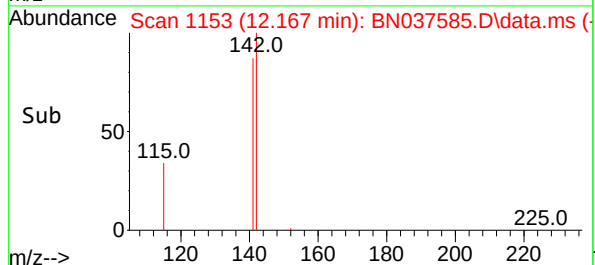
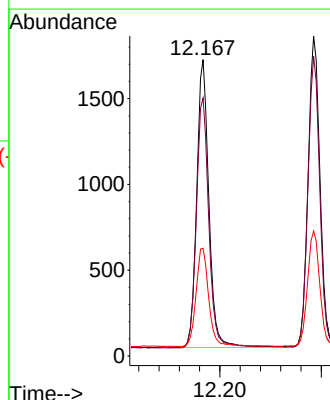
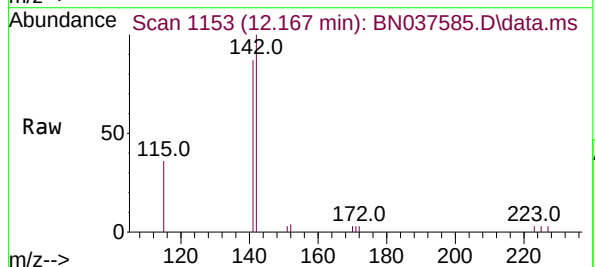
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN081225

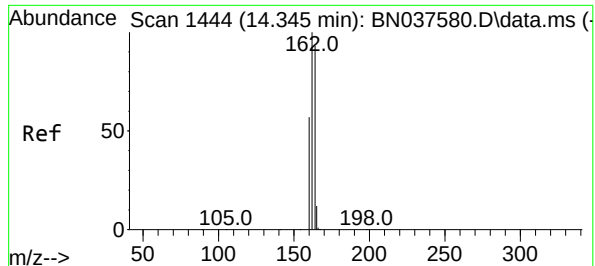
Tgt Ion:152 Resp: 2611  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.3 25.9



#12  
2-Methylnaphthalene  
Concen: 0.372 ng  
RT: 12.167 min Scan# 1153  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

Tgt Ion:142 Resp: 2809  
Ion Ratio Lower Upper  
142 100  
141 87.0 71.4 107.0  
115 36.4 30.2 45.4

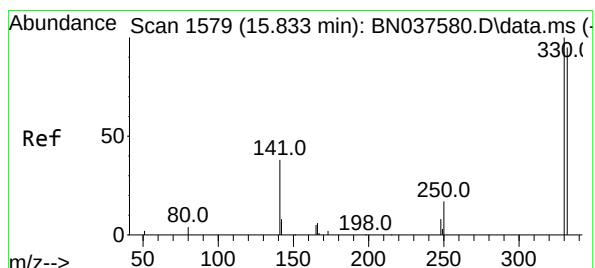
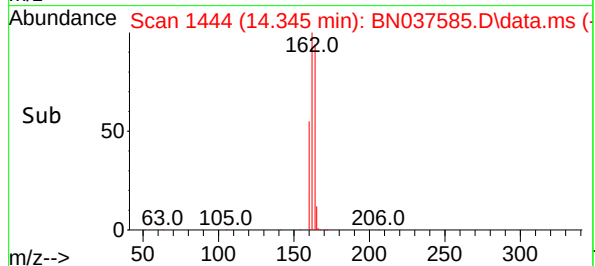
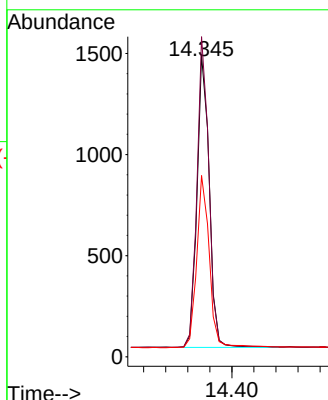
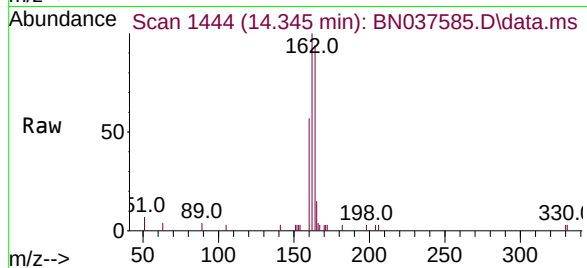




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

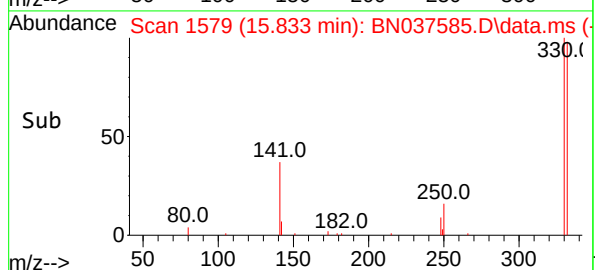
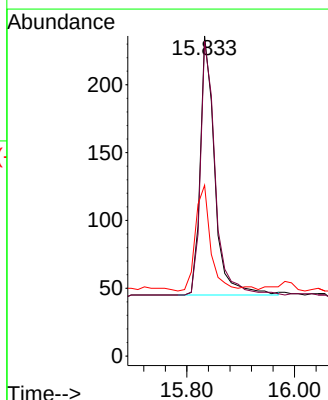
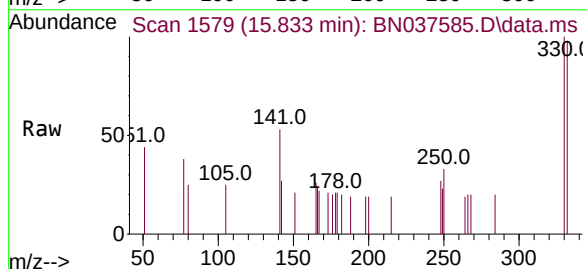
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN081225

| Tgt Ion   | 164  | 162   | 160  |
|-----------|------|-------|------|
| Resp:     | 2241 |       |      |
| Ion Ratio | 100  | 106.2 | 60.1 |
| Lower     |      | 85.5  | 49.5 |
| Upper     |      | 128.3 | 74.3 |

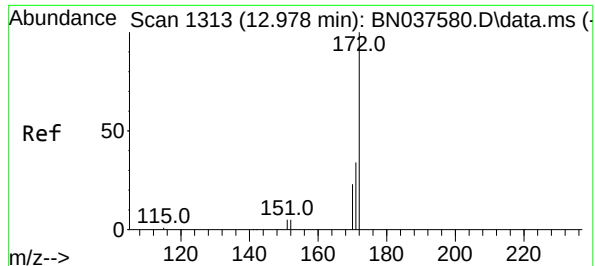


#14  
2,4,6-Tribromophenol  
Concen: 0.365 ng  
RT: 15.833 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

| Tgt Ion   | 330 | 332   | 141  |
|-----------|-----|-------|------|
| Resp:     | 358 |       |      |
| Ion Ratio | 100 | 99.7  | 42.7 |
| Lower     |     | 77.4  | 30.9 |
| Upper     |     | 116.0 | 46.3 |



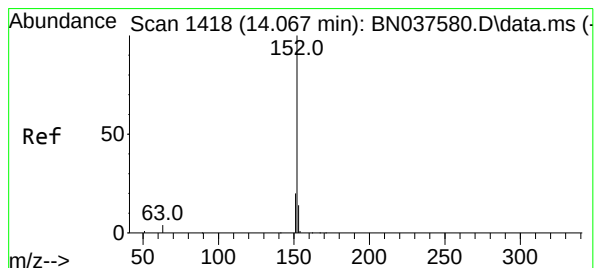
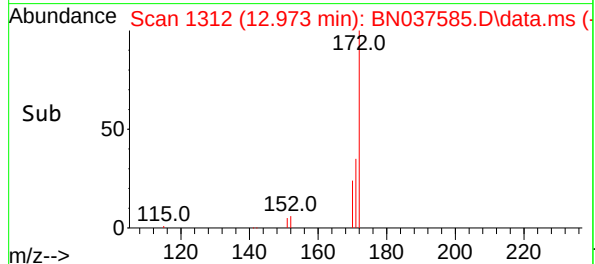
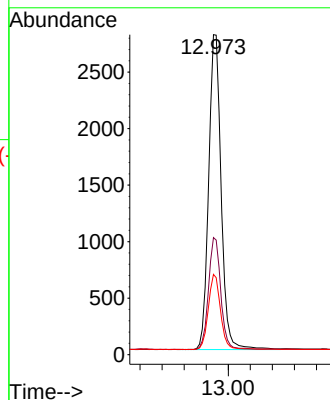
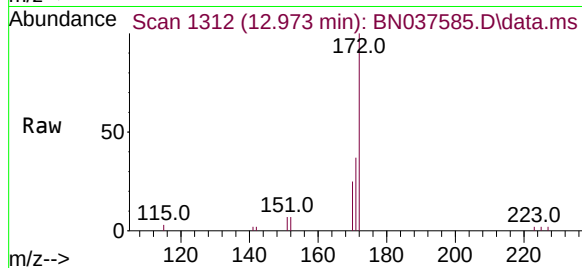




#15  
2-Fluorobiphenyl  
Concen: 0.443 ng  
RT: 12.973 min Scan# 1312  
Delta R.T. -0.005 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

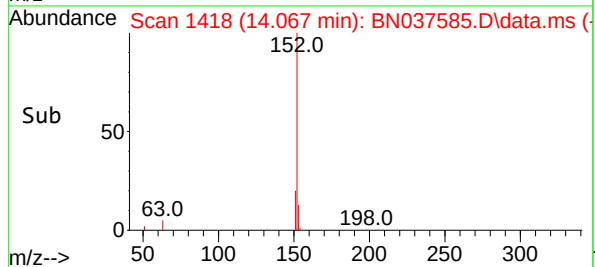
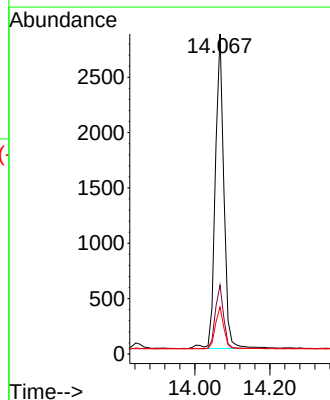
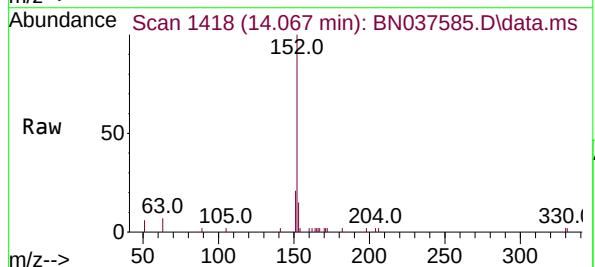
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN081225

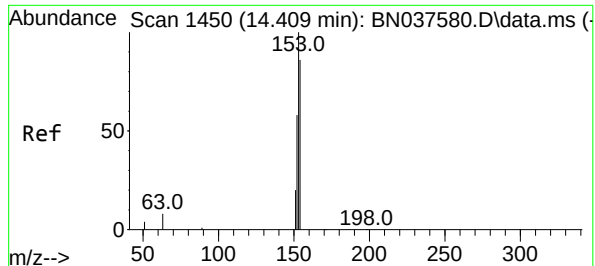
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 5746  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.6  | 28.2  | 42.4  |
| 170      | 25.1  | 19.2  | 28.8  |



#16  
Acenaphthylene  
Concen: 0.448 ng  
RT: 14.067 min Scan# 1418  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 4504  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 19.9  | 16.1  | 24.1  |
| 153      | 13.1  | 10.7  | 16.1  |

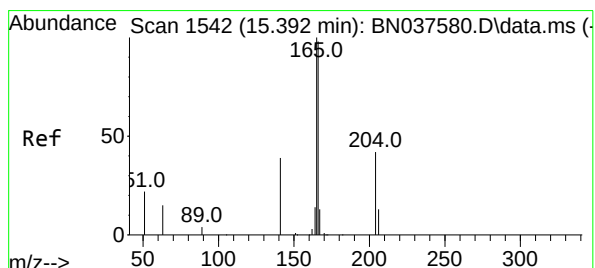
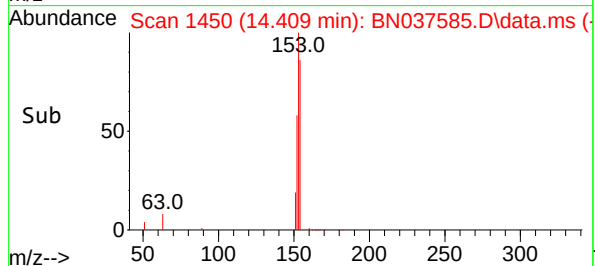
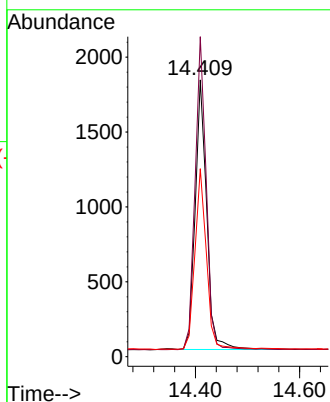
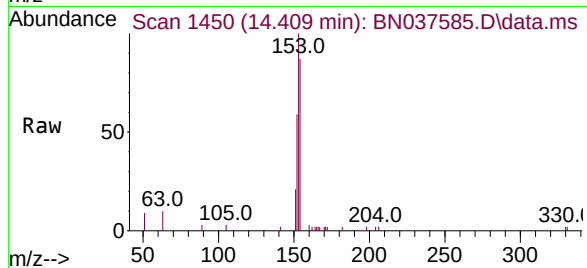




#17  
Acenaphthene  
Concen: 0.405 ng  
RT: 14.409 min Scan# 1450  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

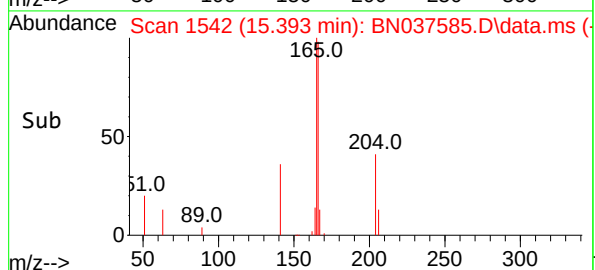
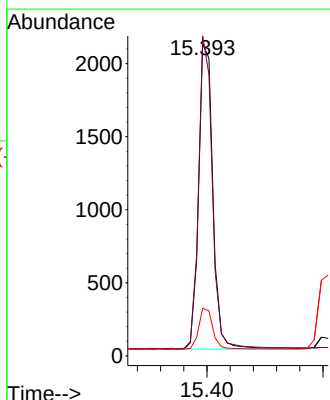
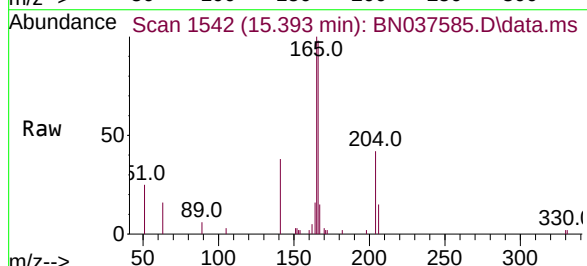
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN081225

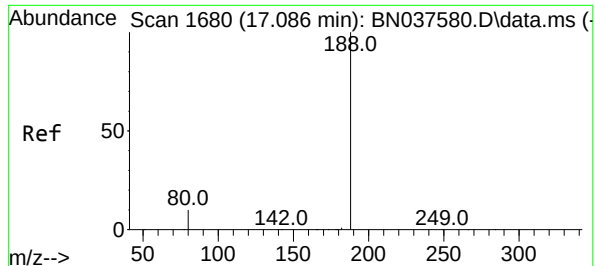
Tgt Ion:154 Resp: 2768  
Ion Ratio Lower Upper  
154 100  
153 112.4 90.6 135.8  
152 67.8 54.9 82.3



#18  
Fluorene  
Concen: 0.402 ng  
RT: 15.393 min Scan# 1542  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

Tgt Ion:166 Resp: 3592  
Ion Ratio Lower Upper  
166 100  
165 100.0 78.9 118.3  
167 14.0 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.087 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA\_N

ClientSampleId :

ICVBN081225

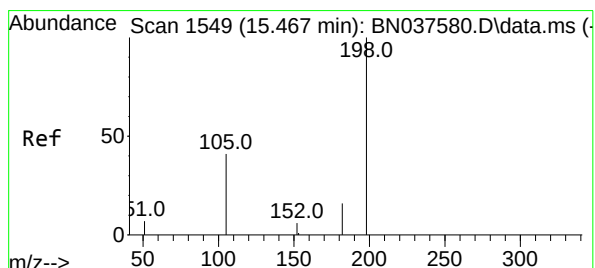
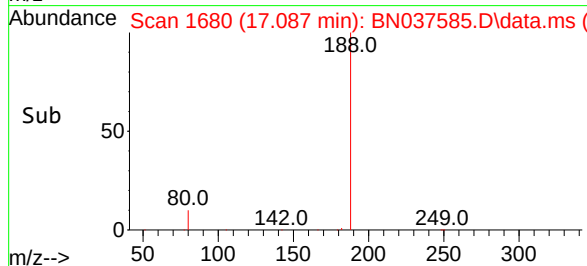
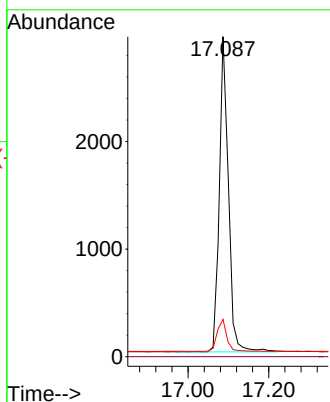
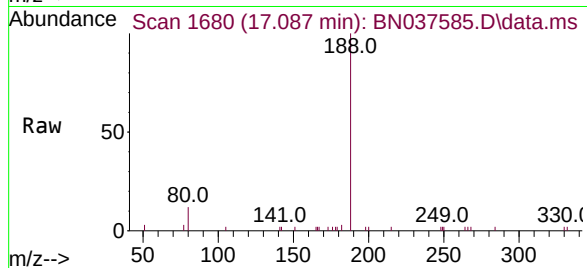
Tgt Ion:188 Resp: 4564

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.6 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.433 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

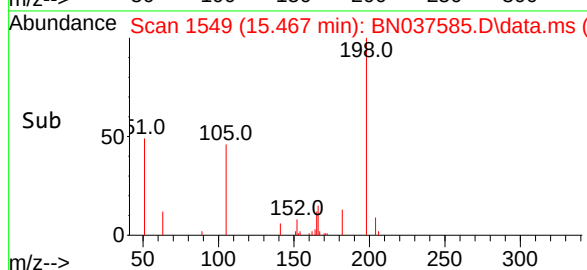
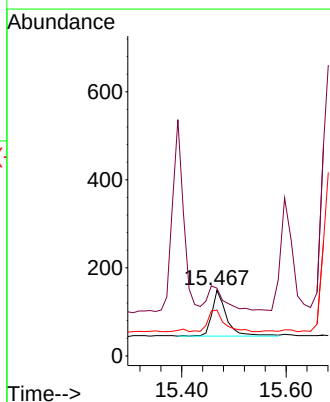
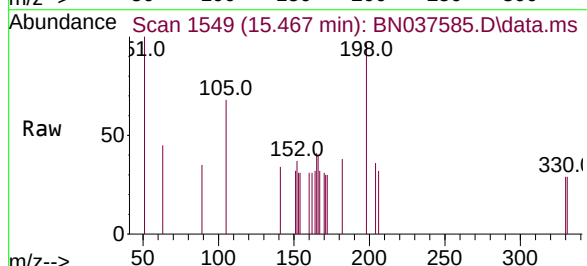
Tgt Ion:198 Resp: 209

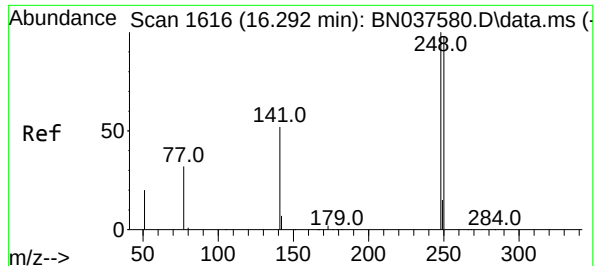
Ion Ratio Lower Upper

198 100

51 103.4 81.0 121.6

105 69.8 52.5 78.7

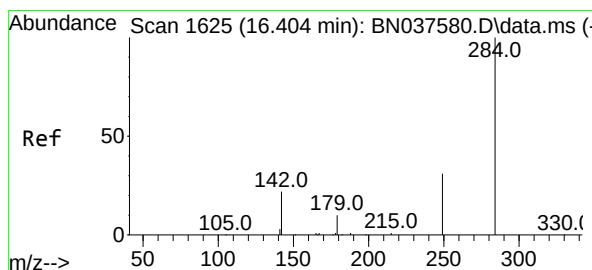
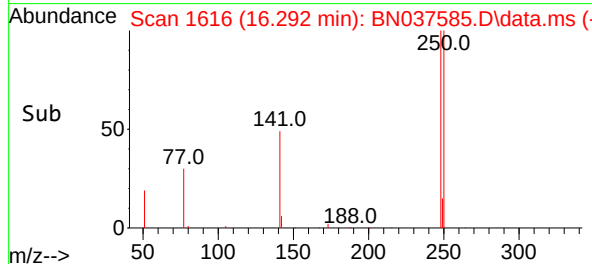
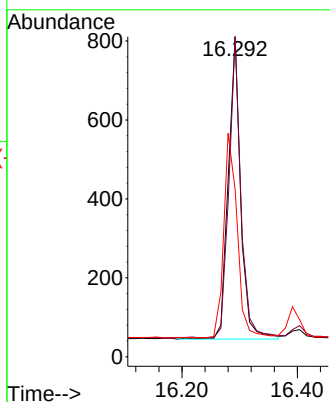
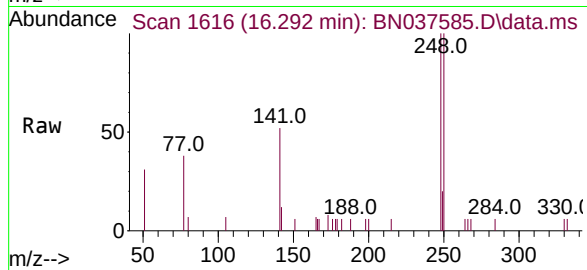




#21  
4-Bromophenyl-phenylether  
Concen: 0.400 ng  
RT: 16.292 min Scan# 1616  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

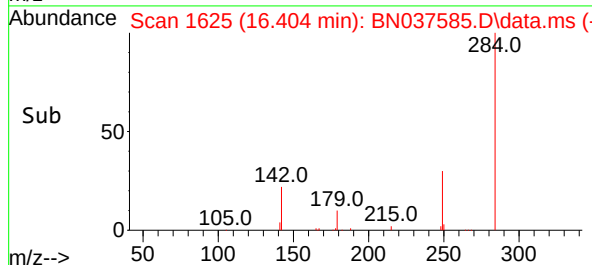
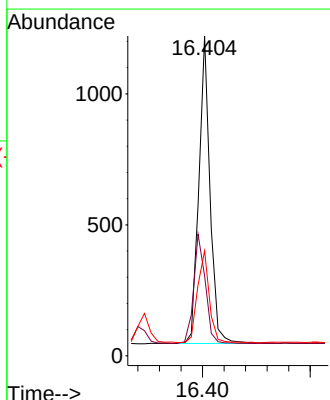
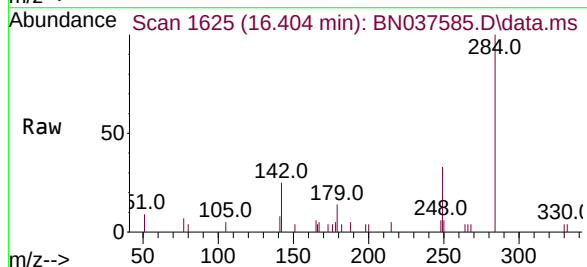
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN081225

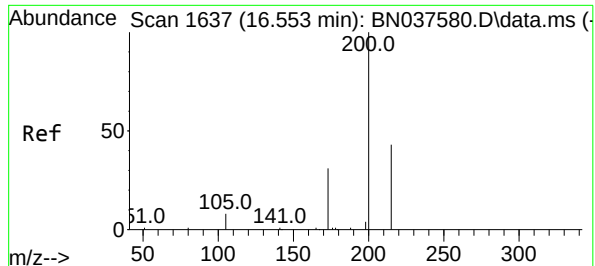
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 100.0 | 78.6  | 118.0 |
| 141     | 52.2  | 43.7  | 65.5  |



#22  
Hexachlorobenzene  
Concen: 0.419 ng  
RT: 16.404 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 37.1  | 29.8  | 44.6  |
| 249     | 31.6  | 26.0  | 39.0  |

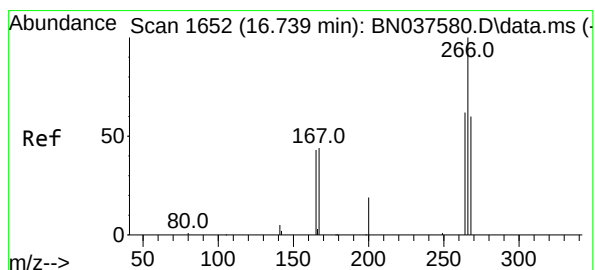
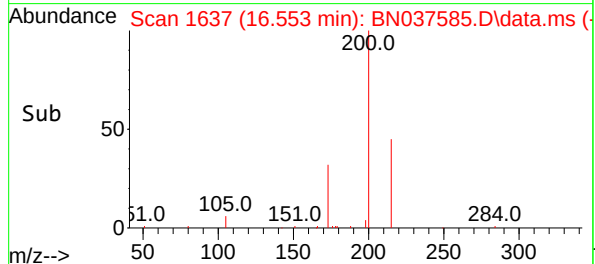
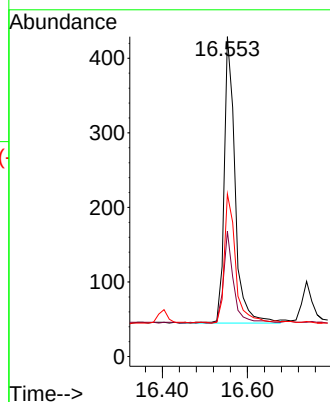
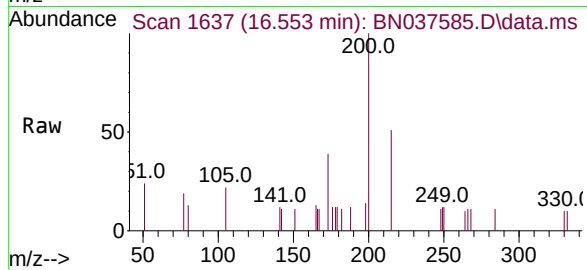




#23  
Atrazine  
Concen: 0.420 ng  
RT: 16.553 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

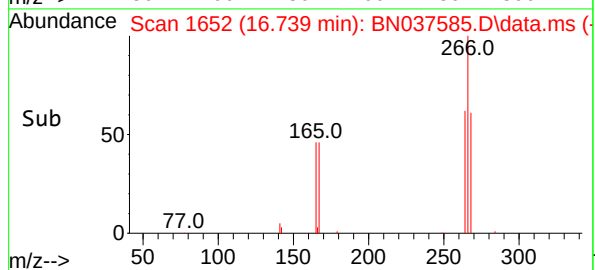
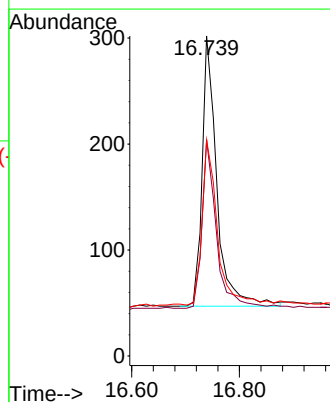
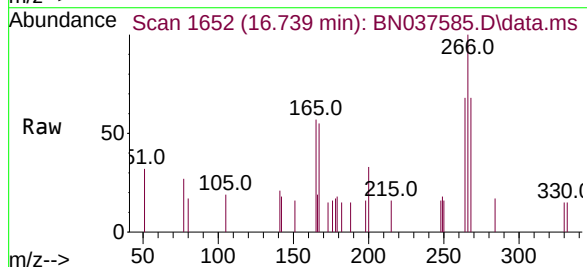
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN081225

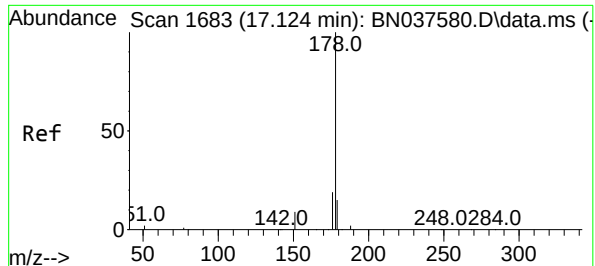
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 39.2  | 31.0  | 46.4  |
| 215     | 50.8  | 39.4  | 59.0  |



#24  
Pentachlorophenol  
Concen: 0.339 ng  
RT: 16.739 min Scan# 1652  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 61.8  | 49.6  | 74.4  |
| 268     | 67.4  | 49.2  | 73.8  |

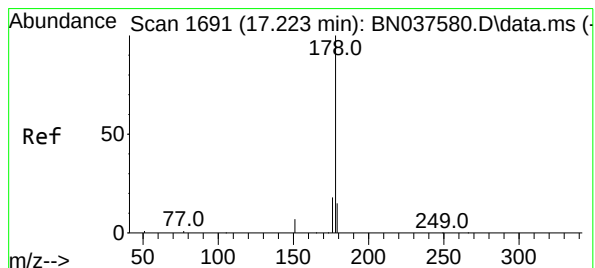
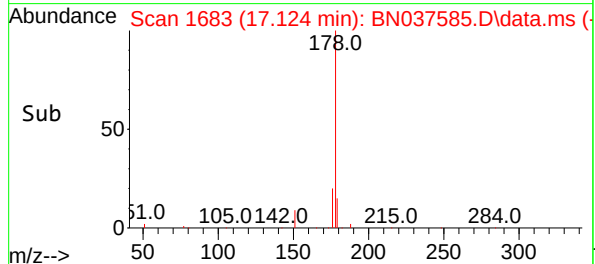
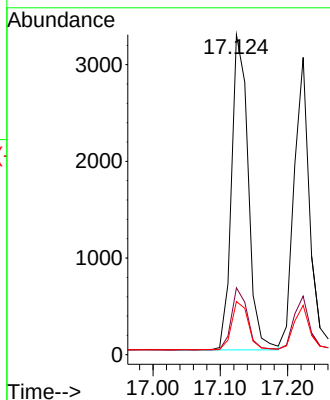
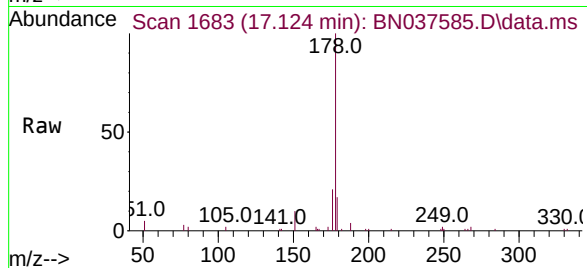




#25  
Phenanthrene  
Concen: 0.404 ng  
RT: 17.124 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

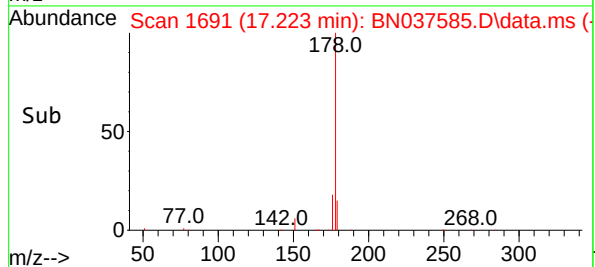
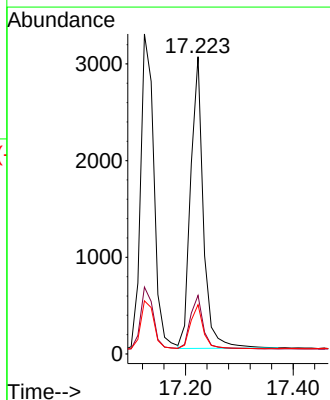
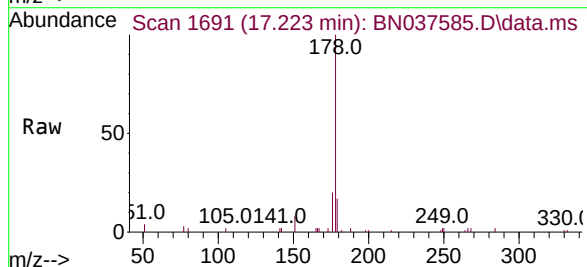
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BNA\_N  
ClientSampleId :  
ICVBN081225

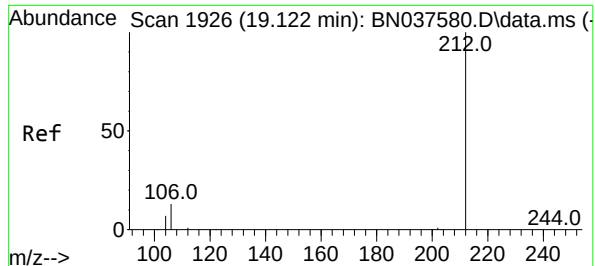
Tgt Ion:178 Resp: 5612  
Ion Ratio Lower Upper  
178 100  
176 19.0 15.0 22.6  
179 15.3 12.3 18.5



#26  
Anthracene  
Concen: 0.402 ng  
RT: 17.223 min Scan# 1691  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

Tgt Ion:178 Resp: 4939  
Ion Ratio Lower Upper  
178 100  
176 19.0 14.7 22.1  
179 15.5 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.405 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA\_N

ClientSampleId :

ICVBN081225

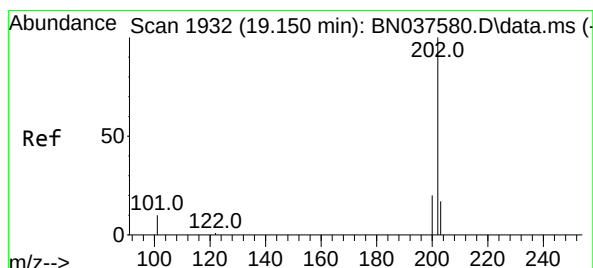
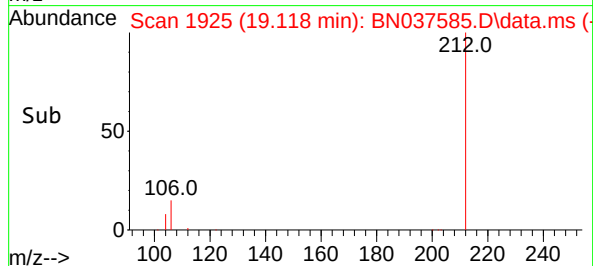
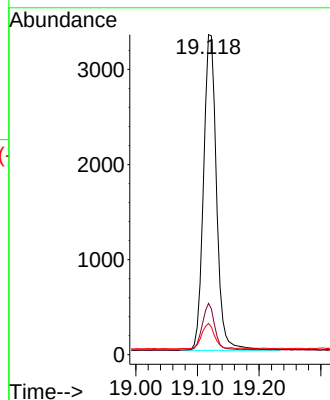
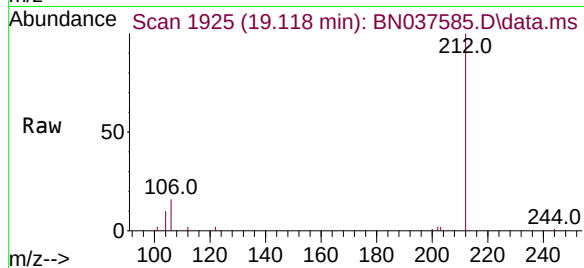
Tgt Ion:212 Resp: 4866

Ion Ratio Lower Upper

212 100

106 14.3 11.5 17.3

104 7.7 6.6 9.8



#28

Fluoranthene

Concen: 0.382 ng

RT: 19.150 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

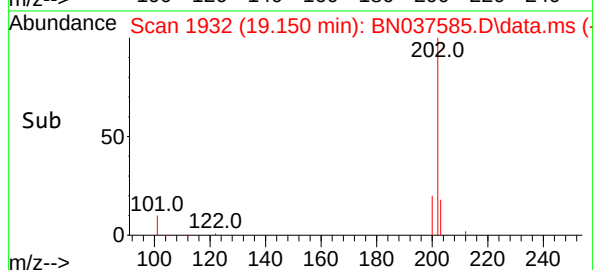
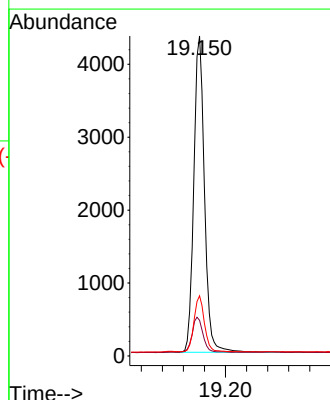
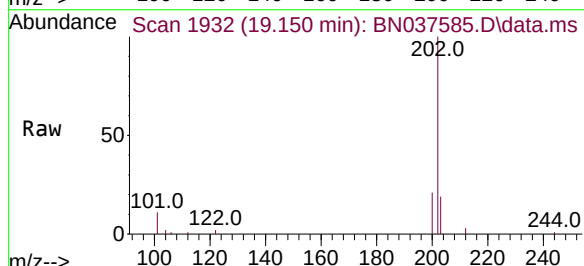
Tgt Ion:202 Resp: 6097

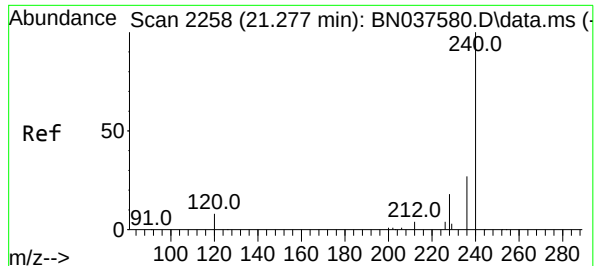
Ion Ratio Lower Upper

202 100

101 11.5 9.0 13.6

203 17.4 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA\_N

ClientSampleId :

ICVBN081225

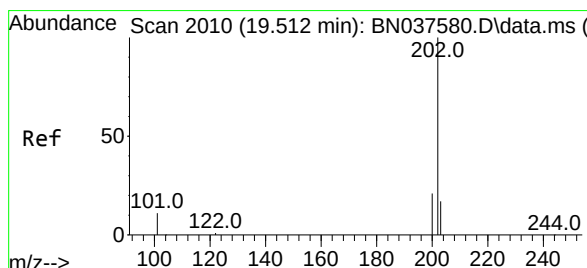
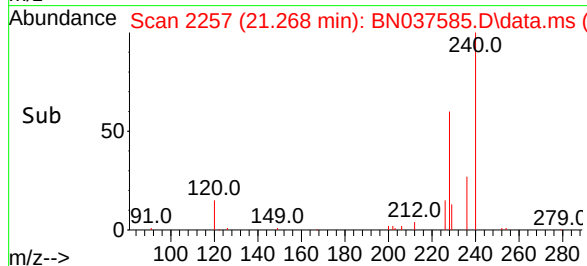
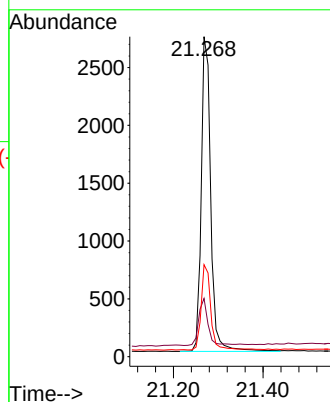
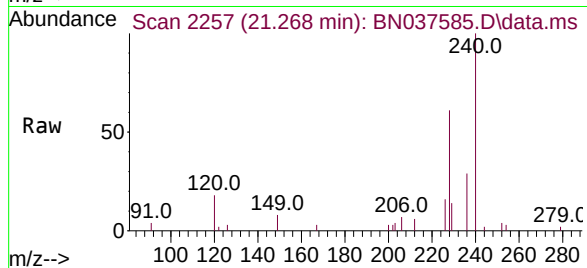
Tgt Ion:240 Resp: 4001

Ion Ratio Lower Upper

240 100

120 18.2 8.9 13.3#

236 28.8 22.6 33.8



#30

Pyrene

Concen: 0.396 ng

RT: 19.513 min Scan# 2010

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

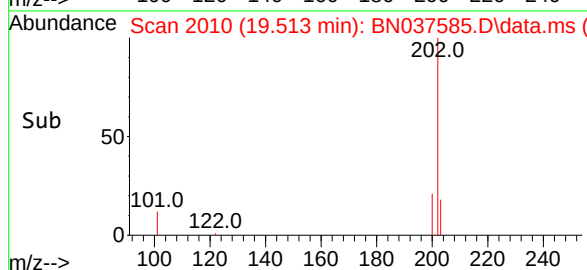
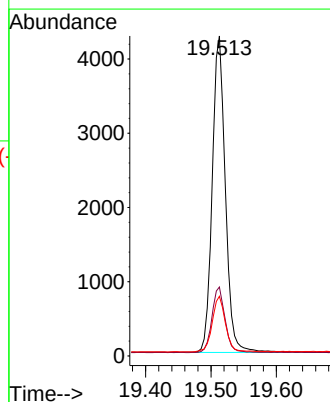
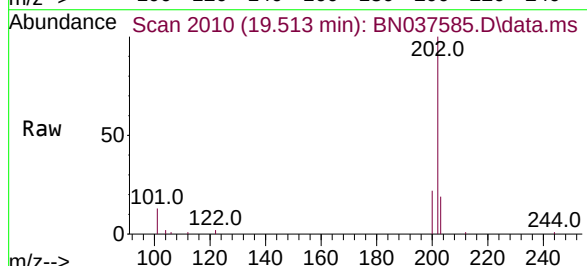
Tgt Ion:202 Resp: 5925

Ion Ratio Lower Upper

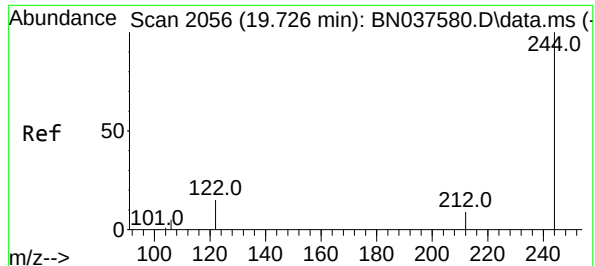
202 100

200 20.6 16.6 25.0

203 17.7 14.3 21.5

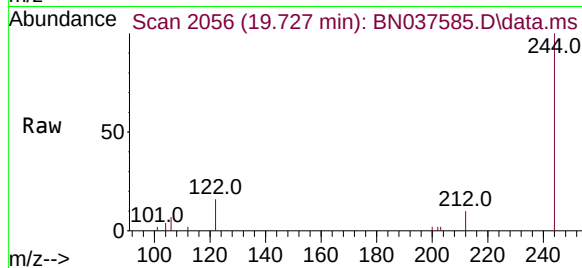




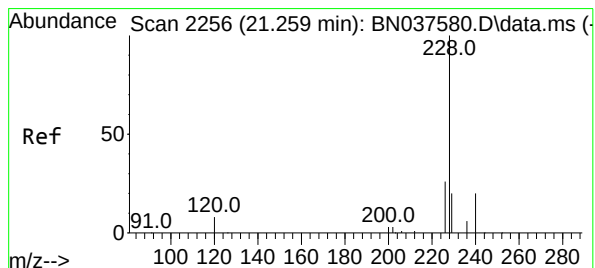
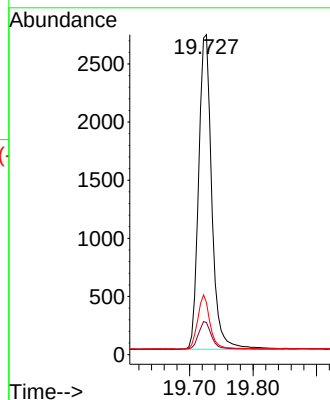


#31  
Terphenyl-d14  
Concen: 0.472 ng  
RT: 19.727 min Scan# 2056  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN081225

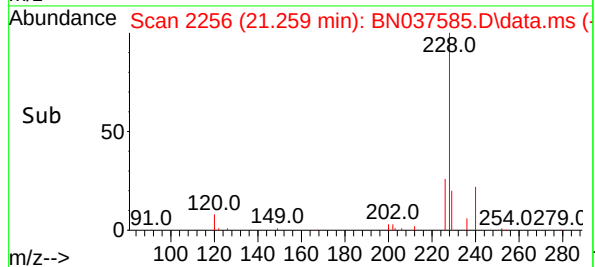
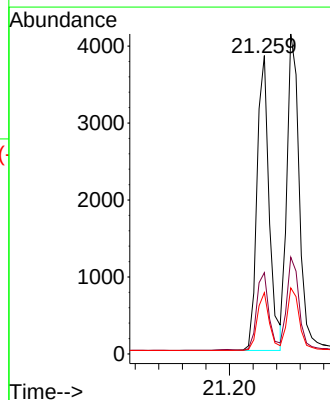
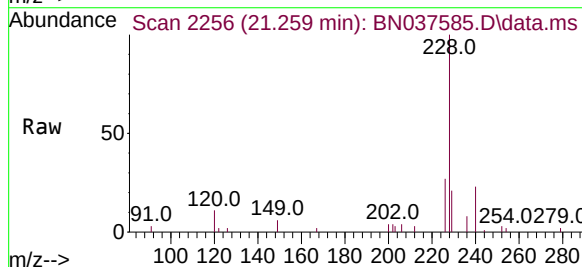


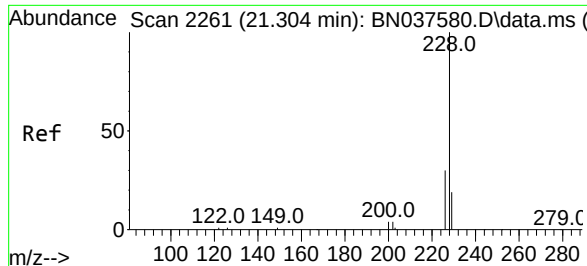
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.0  | 8.2   | 12.2  |
| 122     | 16.3  | 13.2  | 19.8  |



#32  
Benzo(a)anthracene  
Concen: 0.411 ng  
RT: 21.259 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: BN037585.D  
Acq: 12 Aug 2025 20:42

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.2  | 21.5  | 32.3  |
| 229     | 20.5  | 16.5  | 24.7  |





#33

Chrysene

Concen: 0.405 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA\_N

ClientSampleId :

ICVBN081225

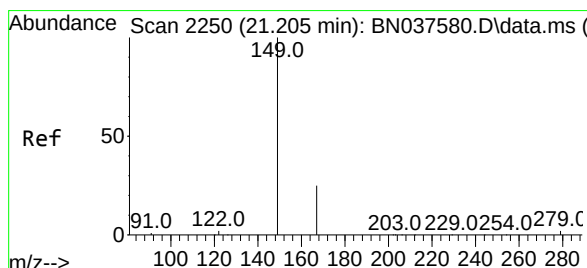
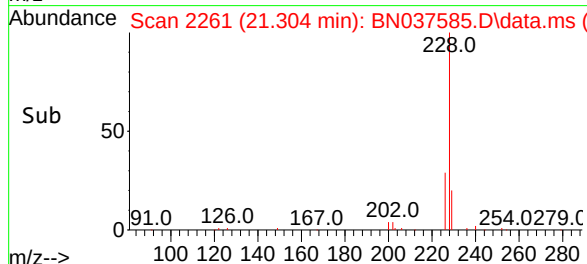
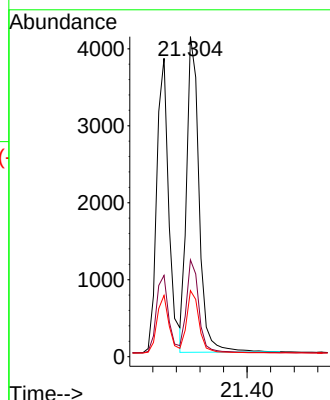
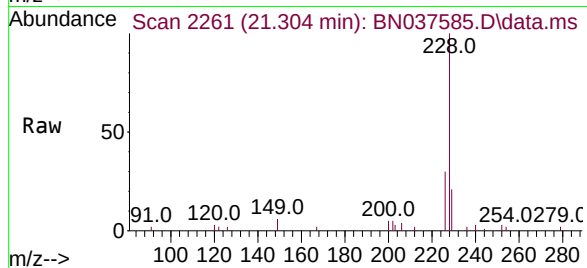
Tgt Ion:228 Resp: 6035

Ion Ratio Lower Upper

228 100

226 30.3 24.9 37.3

229 20.7 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.418 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

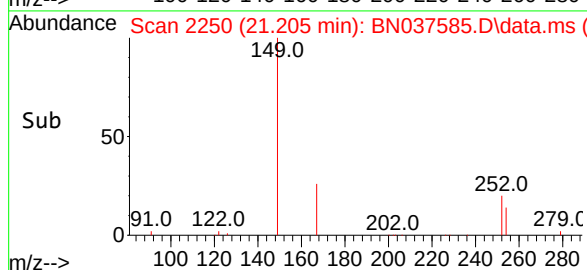
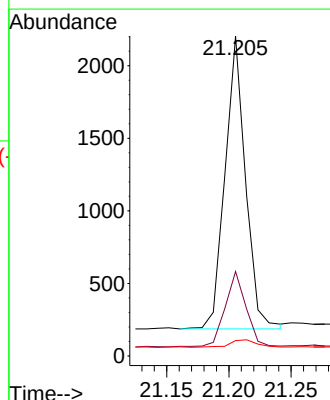
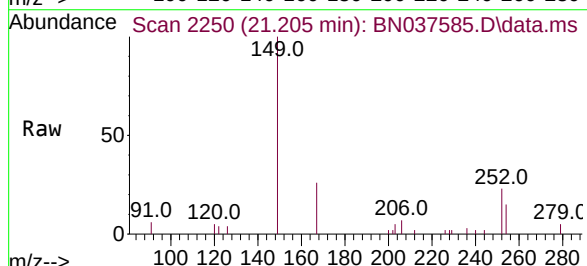
Tgt Ion:149 Resp: 2306

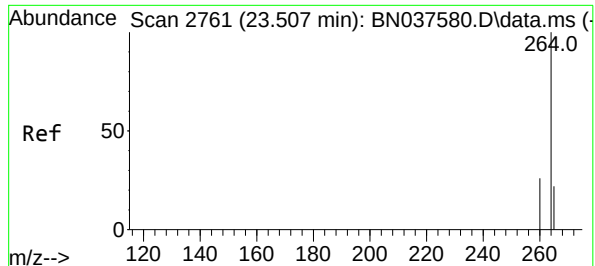
Ion Ratio Lower Upper

149 100

167 26.3 20.5 30.7

279 3.3 2.6 4.0





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.511 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037585.D

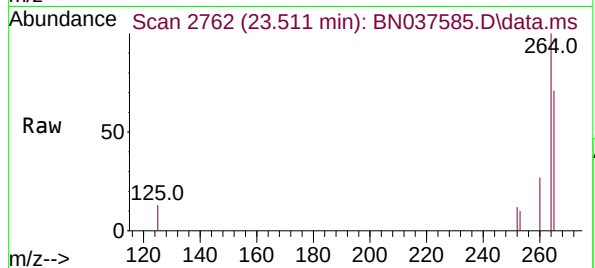
Acq: 12 Aug 2025 20:42

Instrument :

BNA\_N

ClientSampleId :

ICVBN081225



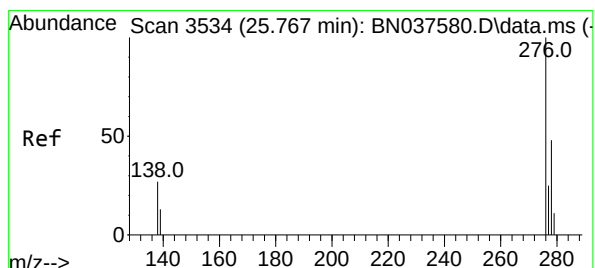
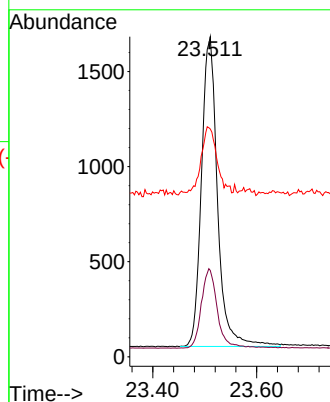
Tgt Ion:264 Resp: 3490

Ion Ratio Lower Upper

264 100

260 27.0 21.6 32.4

265 71.2 48.2 72.4



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.410 ng

RT: 25.765 min Scan# 3533

Delta R.T. -0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

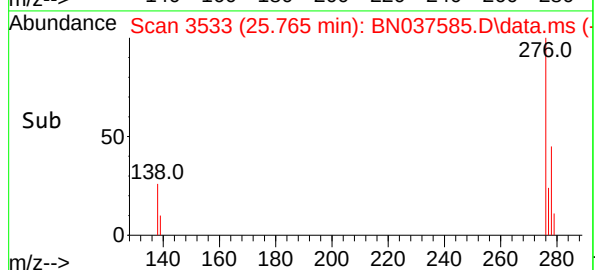
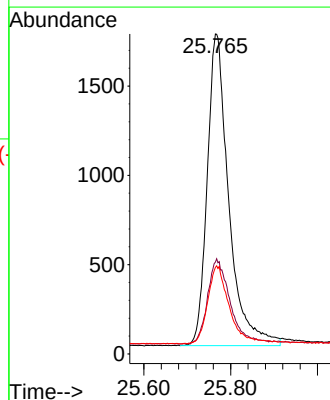
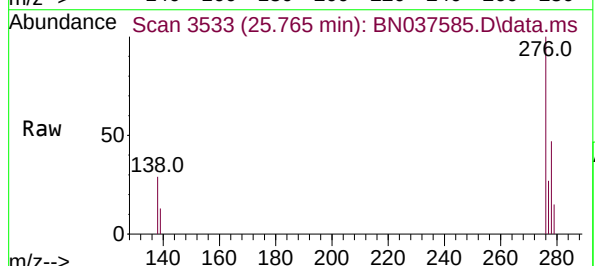
Tgt Ion:276 Resp: 6028

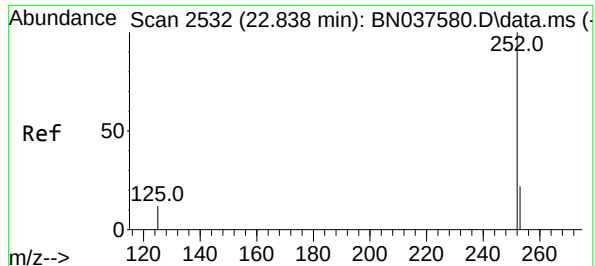
Ion Ratio Lower Upper

276 100

138 28.3 23.3 34.9

277 24.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.409 ng

RT: 22.835 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037585.D

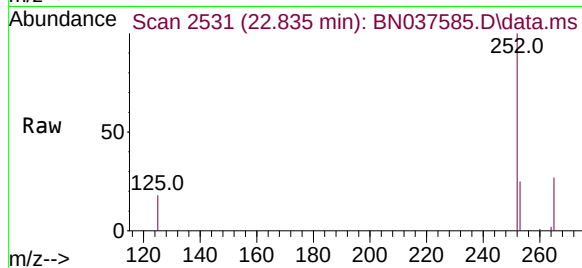
Acq: 12 Aug 2025 20:42

Instrument :

BNA\_N

ClientSampleId :

ICVBN081225



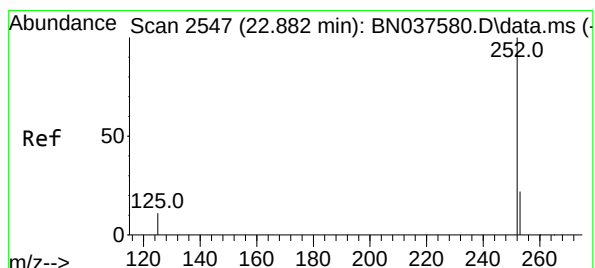
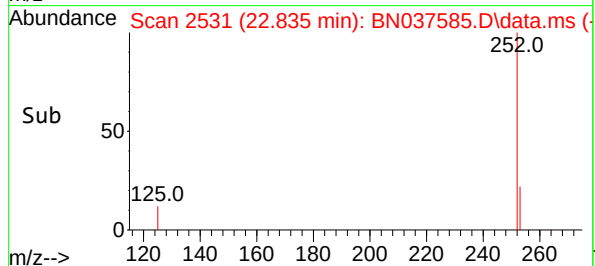
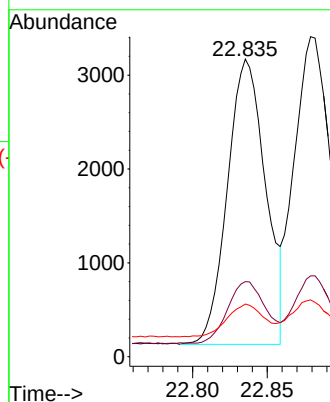
Tgt Ion:252 Resp: 5410

Ion Ratio Lower Upper

252 100

253 25.2 20.0 30.0

125 17.7 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.404 ng

RT: 22.879 min Scan# 2546

Delta R.T. -0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

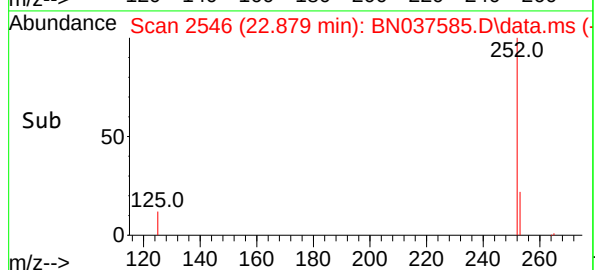
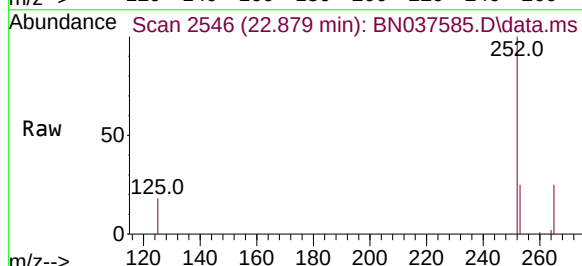
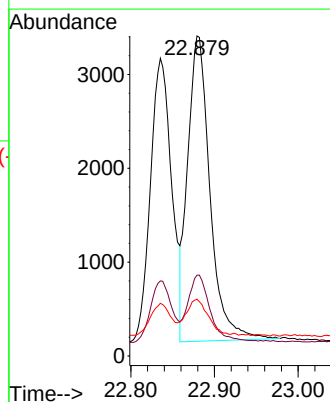
Tgt Ion:252 Resp: 6026

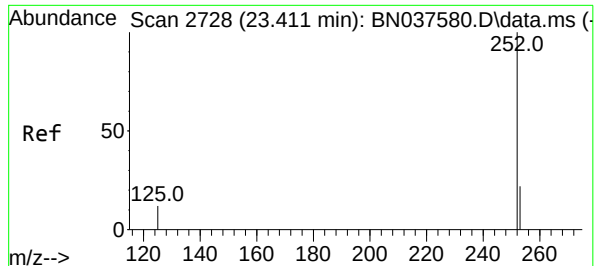
Ion Ratio Lower Upper

252 100

253 25.2 19.9 29.9

125 17.7 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.434 ng

RT: 23.408 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

Instrument :

BNA\_N

ClientSampleId :

ICVBN081225

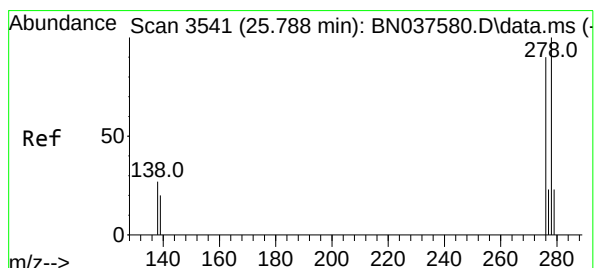
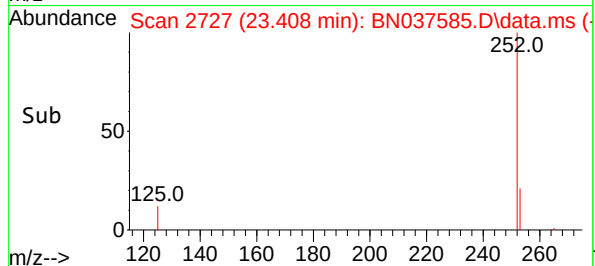
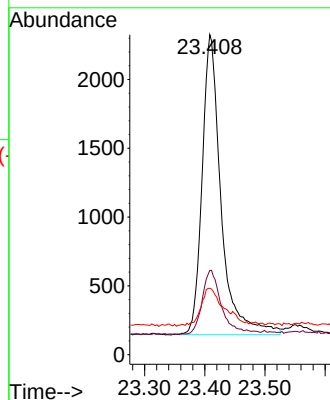
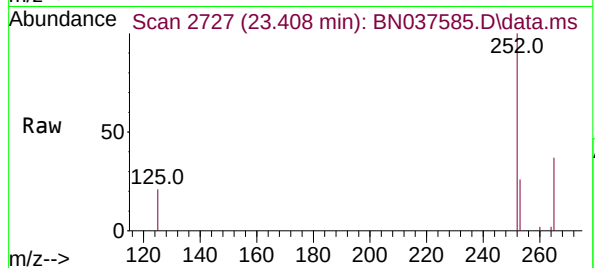
Tgt Ion:252 Resp: 4761

Ion Ratio Lower Upper

252 100

253 26.4 21.6 32.4

125 20.7 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.401 ng

RT: 25.788 min Scan# 3541

Delta R.T. 0.000 min

Lab File: BN037585.D

Acq: 12 Aug 2025 20:42

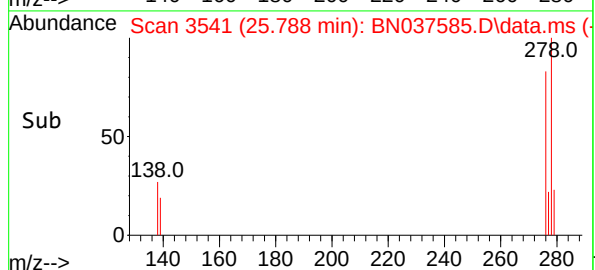
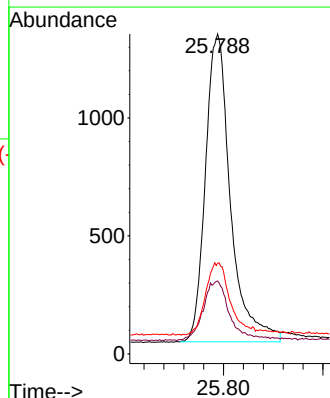
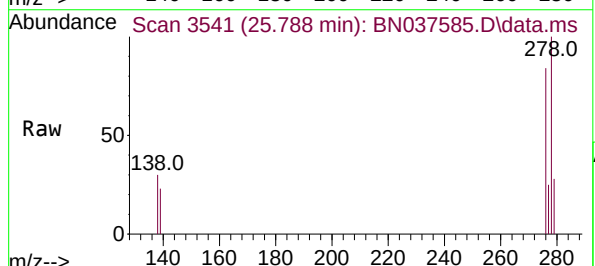
Tgt Ion:278 Resp: 4571

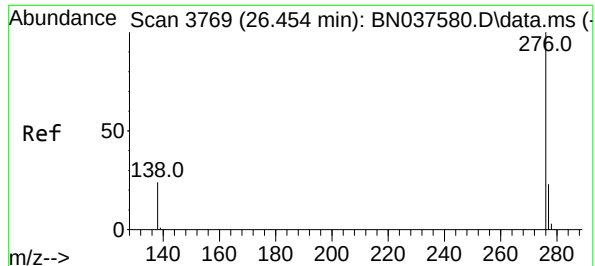
Ion Ratio Lower Upper

278 100

139 22.8 18.3 27.5

279 28.3 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.407 ng

RT: 26.458 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037585.D

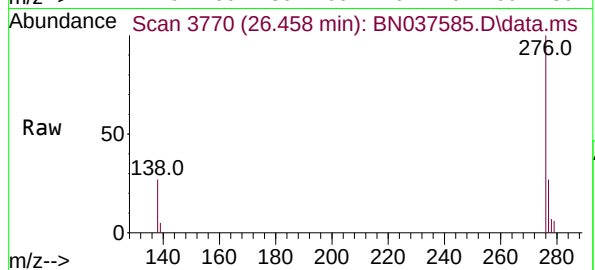
Acq: 12 Aug 2025 20:42

Instrument :

BNA\_N

ClientSampleId :

ICVBN081225



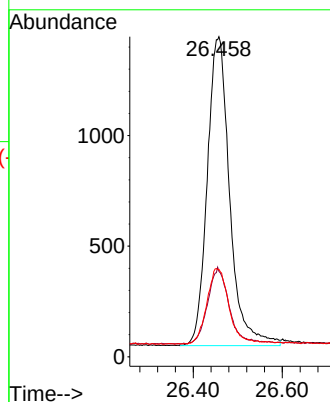
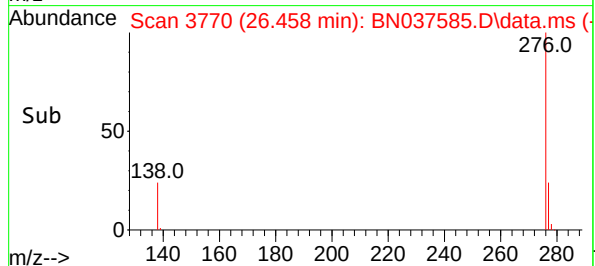
Tgt Ion:276 Resp: 4888

Ion Ratio Lower Upper

276 100

277 26.7 21.0 31.4

138 27.3 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
 Data File : BN037585.D  
 Acq On : 12 Aug 2025 20:42  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN081225

Quant Time: Aug 13 05:03:37 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | AvgRF | CCRF  | %Dev   | Area% | Dev(min) |
|---------|----------------------------|-------|-------|--------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0    | 88    | 0.00     |
| 2       | 1,4-Dioxane                | 0.383 | 0.481 | -25.6# | 107   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.489 | 0.570 | -16.6  | 103   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.907 | 0.965 | -6.4   | 96    | 0.00     |
| 5 S     | Phenol-d6                  | 1.091 | 1.228 | -12.6  | 103   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.983 | 1.077 | -9.6   | 97    | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0    | 88    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.282 | 0.312 | -10.6  | 104   | 0.00     |
| 9       | Naphthalene                | 1.065 | 1.104 | -3.7   | 94    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.260 | 0.279 | -7.3   | 93    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.544 | 0.578 | -6.2   | 100   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.668 | 0.622 | 6.9    | 86    | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0    | 88    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.175 | 0.160 | 8.6    | 90    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 2.313 | 2.564 | -10.9  | 99    | 0.00     |
| 16      | Acenaphthylene             | 1.793 | 2.010 | -12.1  | 104   | 0.00     |
| 17      | Acenaphthene               | 1.220 | 1.235 | -1.2   | 93    | 0.00     |
| 18      | Fluorene                   | 1.596 | 1.603 | -0.4   | 93    | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0    | 91    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.053 | 0.046 | 13.2   | 90    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.251 | 0.251 | 0.0    | 97    | 0.00     |
| 22      | Hexachlorobenzene          | 0.356 | 0.373 | -4.8   | 95    | 0.00     |
| 23      | Atrazine                   | 0.142 | 0.149 | -4.9   | 104   | 0.00     |
| 24      | Pentachlorophenol          | 0.125 | 0.106 | 15.2   | 85    | 0.00     |
| 25      | Phenanthrene               | 1.216 | 1.230 | -1.2   | 95    | 0.00     |
| 26      | Anthracene                 | 1.077 | 1.082 | -0.5   | 99    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.052 | 1.066 | -1.3   | 101   | 0.00     |
| 28      | Fluoranthene               | 1.397 | 1.336 | 4.4    | 93    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0    | 93    | 0.00     |
| 30      | Pyrene                     | 1.495 | 1.481 | 0.9    | 94    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.823 | 0.971 | -18.0  | 113   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.336 | 1.374 | -2.8   | 101   | 0.00     |
| 33      | Chrysene                   | 1.489 | 1.508 | -1.3   | 98    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.551 | 0.576 | -4.5   | 102   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0    | 83    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.686 | 1.727 | -2.4   | 89    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.516 | 1.550 | -2.2   | 97    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.710 | 1.727 | -1.0   | 87    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.257 | 1.364 | -8.5   | 99    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.308 | 1.310 | -0.2   | 89    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.378 | 1.401 | -1.7   | 93    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
 Data File : BN037585.D  
 Acq On : 12 Aug 2025 20:42  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN081225

Quant Time: Aug 13 05:03:37 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | Amount | Calc. | %Dev   | Area% | Dev(min) |
|---------|----------------------------|--------|-------|--------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0    | 88    | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.502 | -25.5# | 107   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.466 | -16.5  | 103   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.426 | -6.5   | 96    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.450 | -12.5  | 103   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.438 | -9.5   | 97    | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0    | 88    | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.443 | -10.7  | 104   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.415 | -3.7   | 94    | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.429 | -7.2   | 93    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.425 | -6.2   | 100   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.372 | 7.0    | 86    | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0    | 88    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.365 | 8.8    | 90    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.443 | -10.7  | 99    | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.448 | -12.0  | 104   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.405 | -1.3   | 93    | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.402 | -0.5   | 93    | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0    | 91    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.433 | -8.2   | 90    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.400 | 0.0    | 97    | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.419 | -4.7   | 95    | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.420 | -5.0   | 104   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.339 | 15.3   | 85    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.404 | -1.0   | 95    | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.402 | -0.5   | 99    | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.405 | -1.3   | 101   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.382 | 4.5    | 93    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0    | 93    | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.396 | 1.0    | 94    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.472 | -18.0  | 113   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.411 | -2.7   | 101   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.405 | -1.3   | 98    | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.418 | -4.5   | 102   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0    | 83    | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.410 | -2.5   | 89    | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.409 | -2.2   | 97    | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.404 | -1.0   | 87    | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.434 | -8.5   | 99    | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.401 | -0.3   | 89    | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.407 | -1.7   | 93    | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: JAC005  
 Lab Code: ACE SDG No.: Q2842  
 Instrument ID: BNA\_N Calibration Date/Time: 08/19/2025 10:39  
 Lab File ID: BN037600.D Init. Calib. Date(s): 08/12/2025 08/12/2025  
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:26 20:05  
 GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D   | MAX%D |
|-------------------------|-------|--------|------------|------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.498  |            | -8.5 | 20.0  |
| Fluoranthene-d10        | 1.052 | 0.957  |            | -9.0 | 20.0  |
| 2-Fluorophenol          | 0.907 | 0.907  |            | 0.0  | 20.0  |
| Phenol-d6               | 1.091 | 1.078  |            | -1.2 | 20.0  |
| Nitrobenzene-d5         | 0.282 | 0.275  |            | -2.5 | 20.0  |
| 2-Fluorobiphenyl        | 2.313 | 2.186  |            | -5.5 | 20.0  |
| 2,4,6-Tribromophenol    | 0.175 | 0.169  |            | -3.4 | 20.0  |
| Terphenyl-d14           | 0.823 | 0.796  |            | -3.3 | 20.0  |
| 1,4-Dioxane             | 0.383 | 0.406  |            | 6.0  | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037600.D  
 Acq On : 19 Aug 2025 10:39  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Aug 20 01:24:09 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

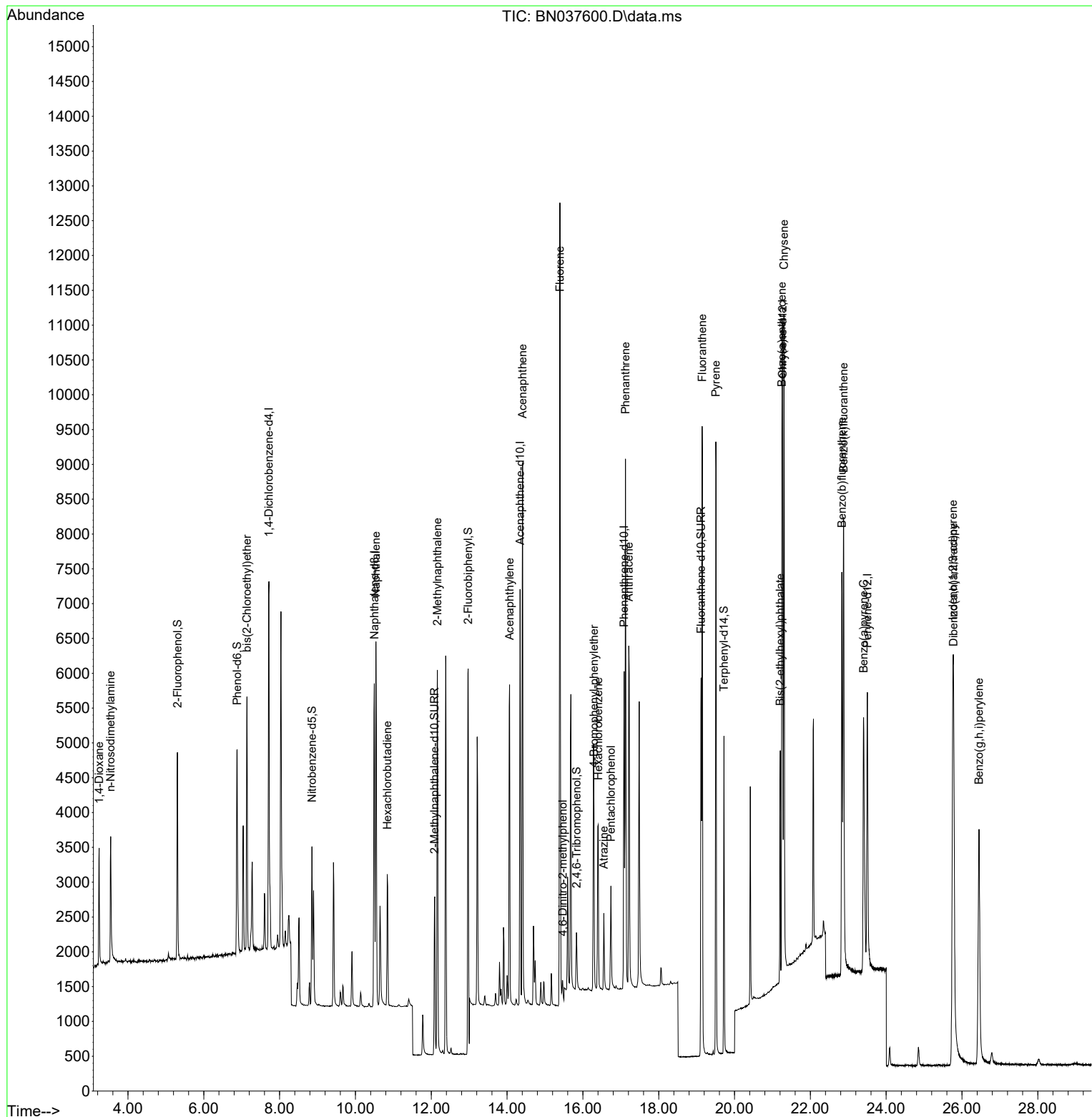
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 2628     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 6457     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.344 | 164  | 3216     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 6293     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.267 | 240  | 5356     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.504 | 264  | 5379     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.304  | 112  | 2384     | 0.400 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 2834     | 0.395 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.853  | 82   | 1778     | 0.391 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.085 | 152  | 3215     | 0.366 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.832 | 330  | 542      | 0.385 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 7030     | 0.378 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.117 | 212  | 6023     | 0.364 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.721 | 244  | 4265     | 0.387 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 1066     | 0.424 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.542  | 42   | 1257     | 0.391 | ng    | # 93     |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 2636     | 0.408 | ng    | 98       |
| 9) Naphthalene                | 10.540 | 128  | 6800     | 0.396 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.839 | 225  | 1625     | 0.387 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.161 | 142  | 4129     | 0.383 | ng    | 98       |
| 16) Acenaphthylene            | 14.066 | 152  | 5461     | 0.379 | ng    | 100      |
| 17) Acenaphthene              | 14.408 | 154  | 3757     | 0.383 | ng    | 99       |
| 18) Fluorene                  | 15.392 | 166  | 4853     | 0.378 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.467 | 198  | 277      | 0.423 | ng    | 97       |
| 21) 4-Bromophenyl-phenylether | 16.292 | 248  | 1480     | 0.374 | ng    | # 92     |
| 22) Hexachlorobenzene         | 16.403 | 284  | 2223     | 0.397 | ng    | 99       |
| 23) Atrazine                  | 16.552 | 200  | 882      | 0.394 | ng    | 95       |
| 24) Pentachlorophenol         | 16.738 | 266  | 775      | 0.394 | ng    | 97       |
| 25) Phenanthrene              | 17.123 | 178  | 7452     | 0.390 | ng    | 100      |
| 26) Anthracene                | 17.210 | 178  | 6342     | 0.374 | ng    | 99       |
| 28) Fluoranthene              | 19.145 | 202  | 8237     | 0.375 | ng    | 99       |
| 30) Pyrene                    | 19.508 | 202  | 8114     | 0.405 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.250 | 228  | 6833     | 0.382 | ng    | 98       |
| 33) Chrysene                  | 21.303 | 228  | 8075     | 0.405 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 2987     | 0.405 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.761 | 276  | 8634     | 0.381 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.832 | 252  | 7289     | 0.358 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.876 | 252  | 8761     | 0.381 | ng    | 99       |
| 39) Benzo(a)pyrene            | 23.405 | 252  | 6262     | 0.370 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.779 | 278  | 6490     | 0.369 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 26.448 | 276  | 7193     | 0.388 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

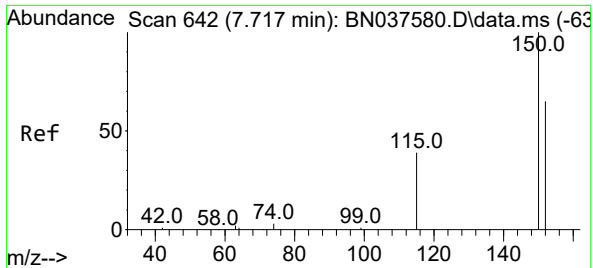
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037600.D  
Acq On : 19 Aug 2025 10:39  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Quant Time: Aug 20 01:24:09 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration

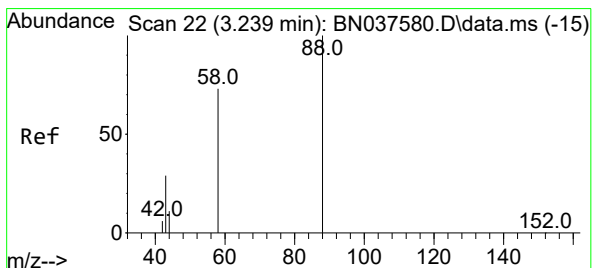
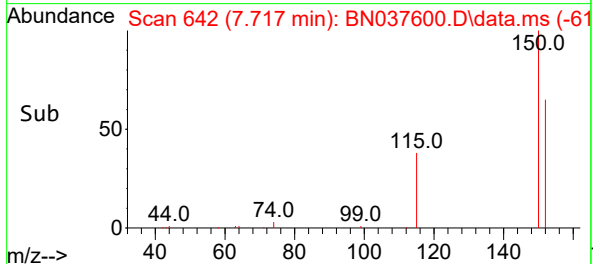
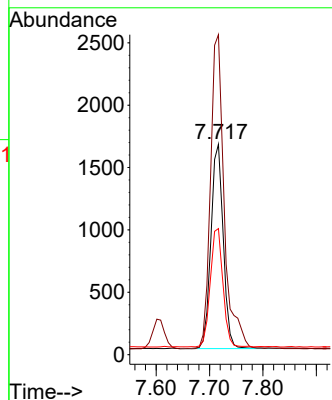
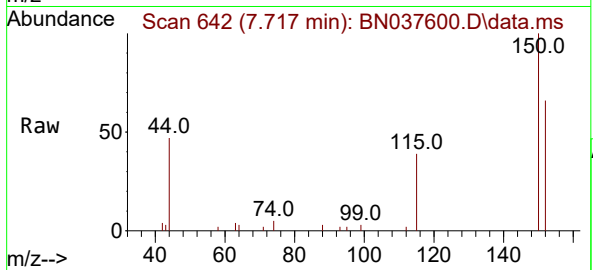




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

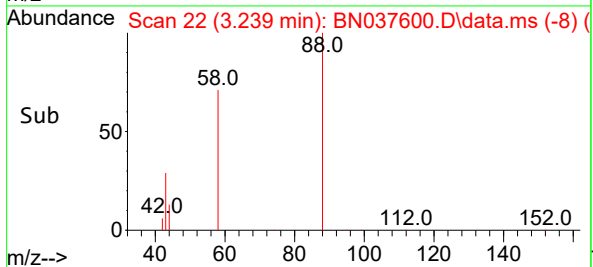
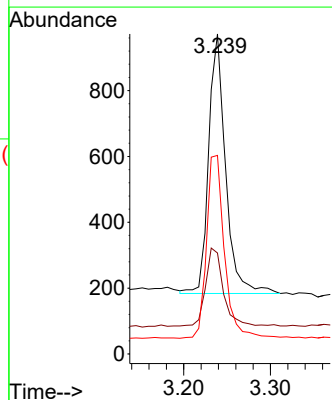
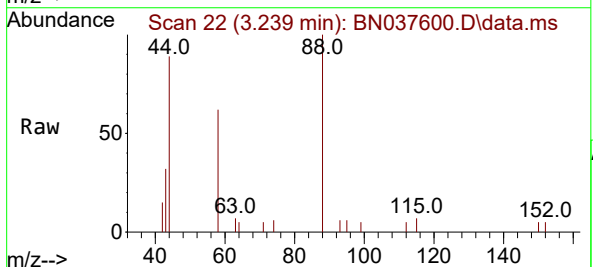
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

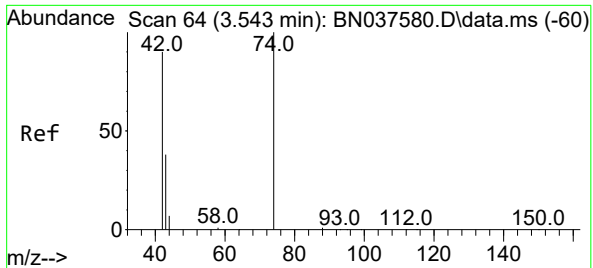
Tgt Ion:152 Resp: 2628  
Ion Ratio Lower Upper  
152 100  
150 152.1 122.2 183.4  
115 59.9 49.8 74.6



#2  
1,4-Dioxane  
Concen: 0.424 ng  
RT: 3.239 min Scan# 22  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

Tgt Ion: 88 Resp: 1066  
Ion Ratio Lower Upper  
88 100  
43 31.4 25.8 38.6  
58 74.8 61.2 91.8

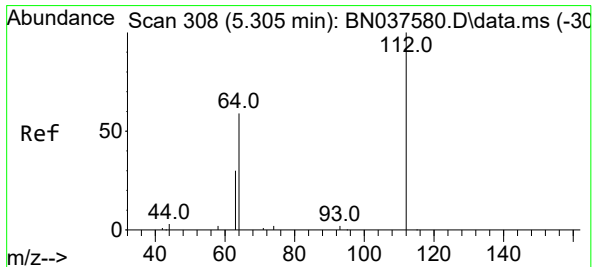
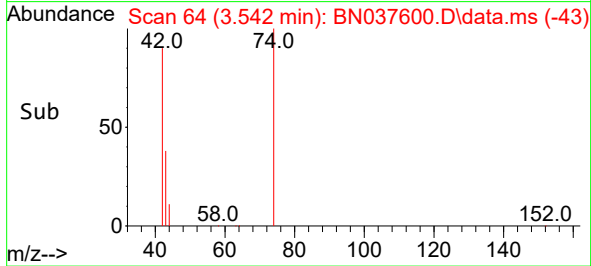
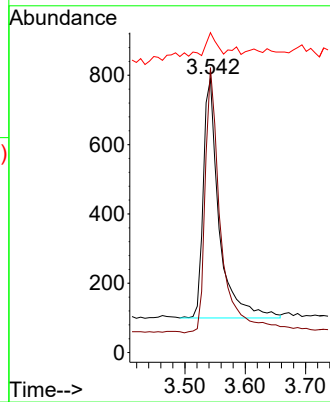
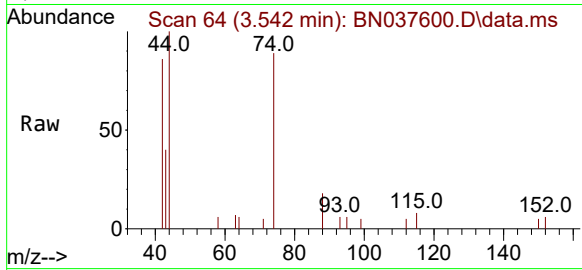




#3  
n-Nitrosodimethylamine  
Concen: 0.391 ng  
RT: 3.542 min Scan# 64  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

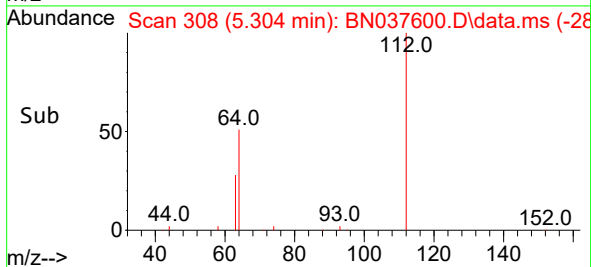
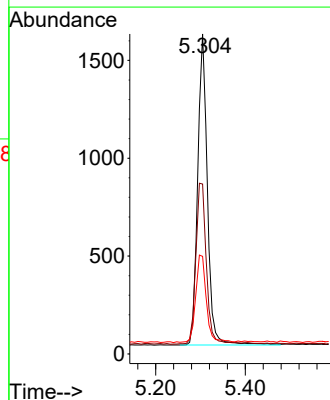
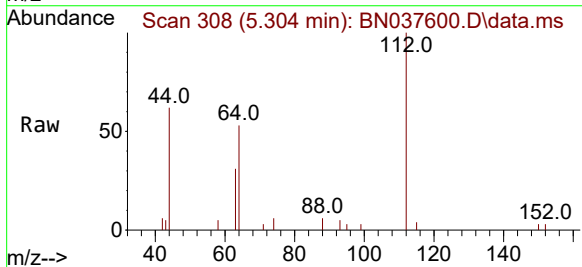
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

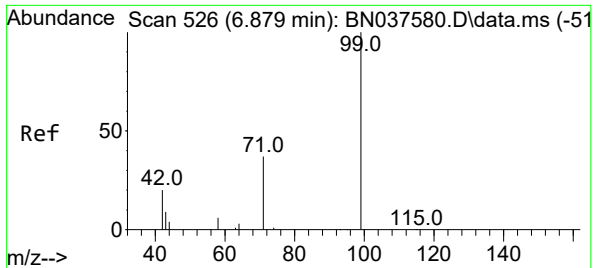
Tgt Ion: 42 Resp: 1257  
Ion Ratio Lower Upper  
42 100  
74 109.4 82.0 123.0  
44 6.0 7.9 11.9#



#4  
2-Fluorophenol  
Concen: 0.400 ng  
RT: 5.304 min Scan# 308  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

Tgt Ion: 112 Resp: 2384  
Ion Ratio Lower Upper  
112 100  
64 55.9 44.9 67.3  
63 31.0 23.4 35.2

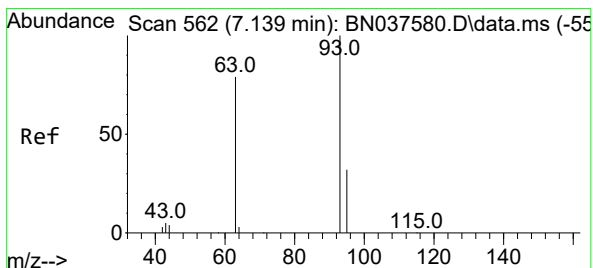
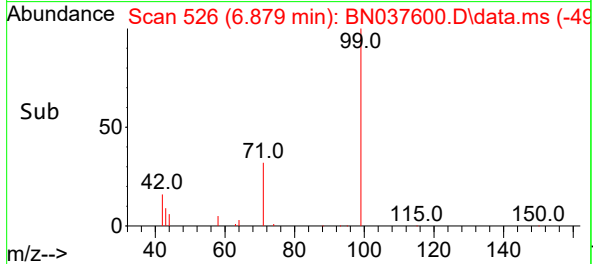
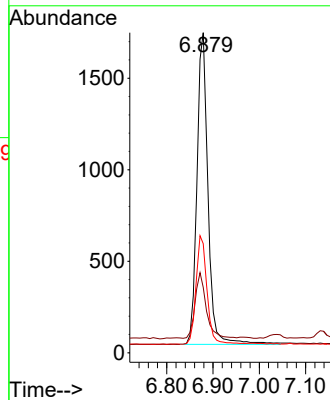
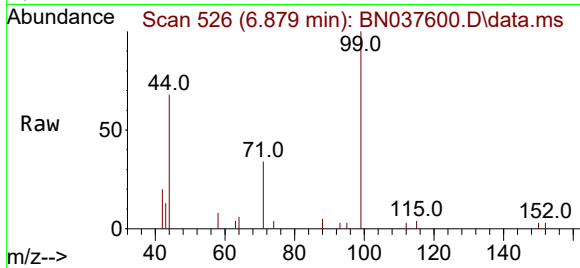




#5  
Phenol-d6  
Concen: 0.395 ng  
RT: 6.879 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

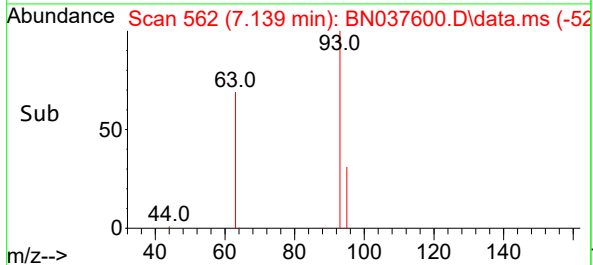
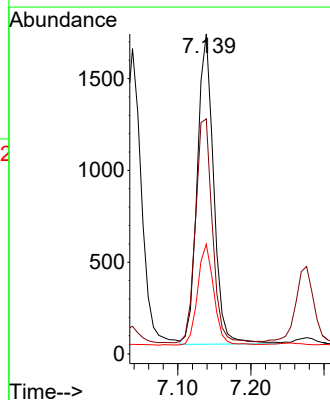
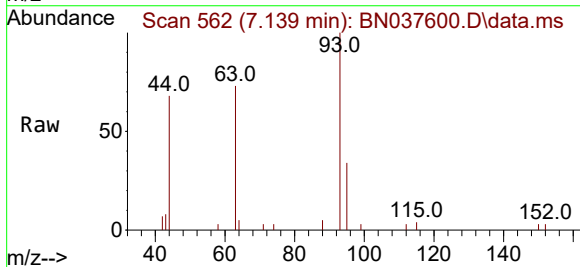
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

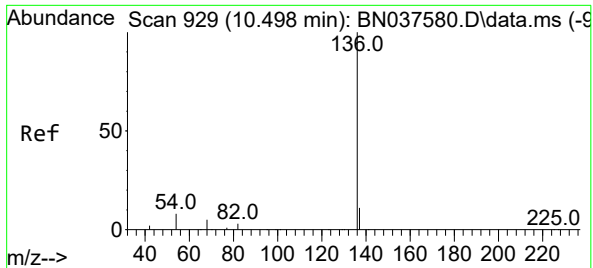
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 21.3  | 18.5  | 27.7  |
| 71      | 34.5  | 28.6  | 42.8  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.408 ng  
RT: 7.139 min Scan# 562  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 73.9  | 58.0  | 87.0  |
| 95      | 32.0  | 24.9  | 37.3  |

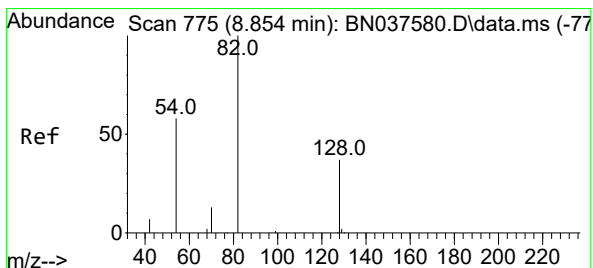
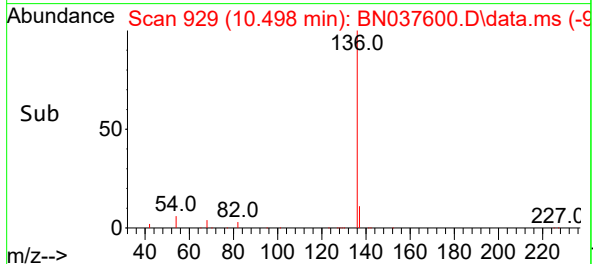
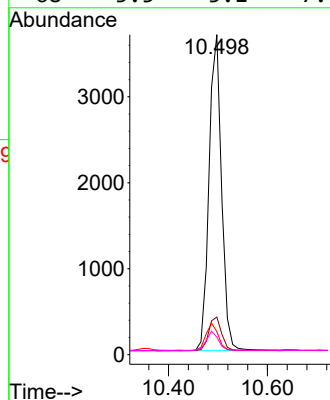
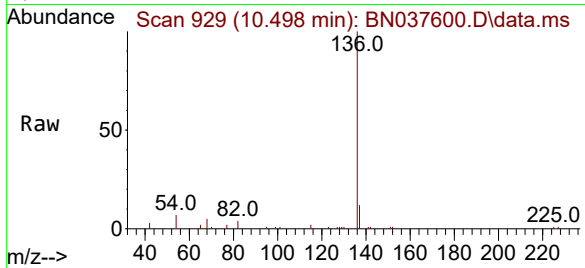




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

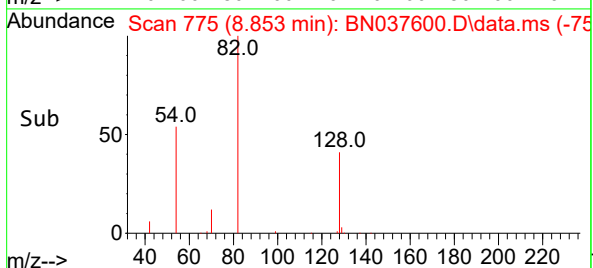
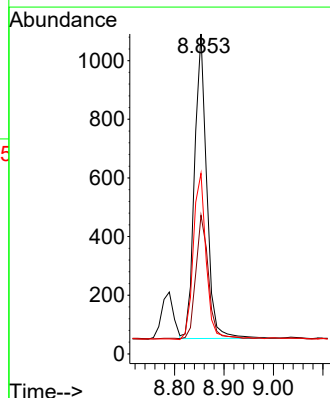
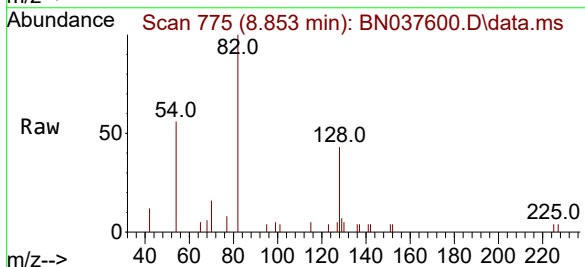
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

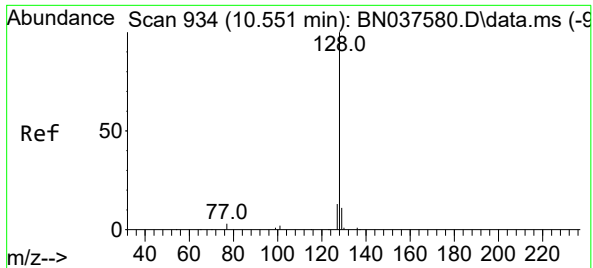
Tgt Ion:136 Resp: 6457  
Ion Ratio Lower Upper  
136 100  
137 11.7 9.5 14.3  
54 7.2 7.3 10.9#  
68 5.5 5.1 7.7



#8  
Nitrobenzene-d5  
Concen: 0.391 ng  
RT: 8.853 min Scan# 775  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

Tgt Ion: 82 Resp: 1778  
Ion Ratio Lower Upper  
82 100  
128 43.4 32.6 48.8  
54 56.5 48.9 73.3

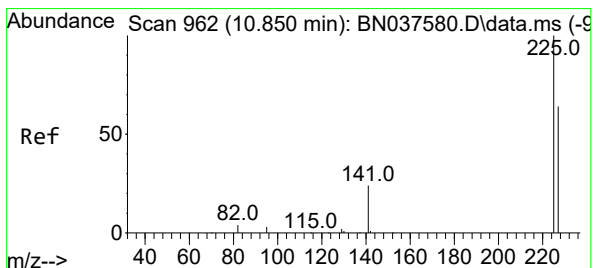
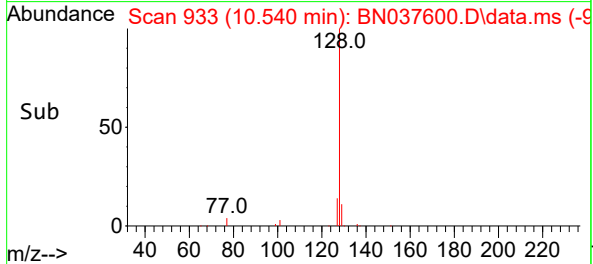
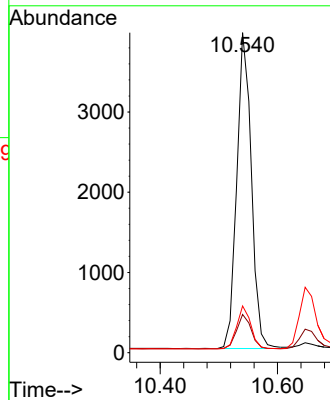
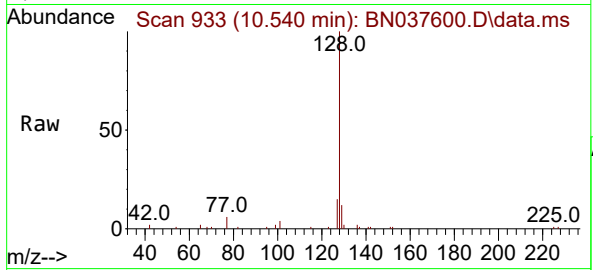




#9  
Naphthalene  
Concen: 0.396 ng  
RT: 10.540 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

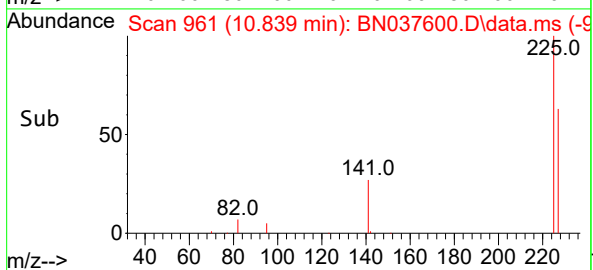
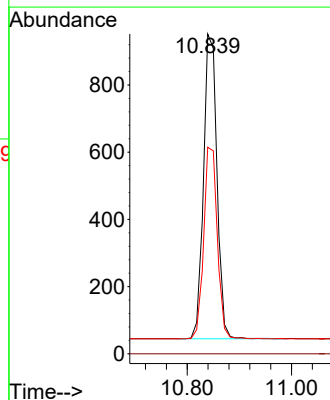
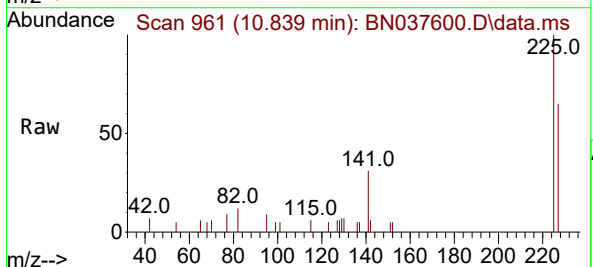
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:128 Resp: 6800  
Ion Ratio Lower Upper  
128 100  
129 11.9 9.8 14.6  
127 14.6 11.5 17.3

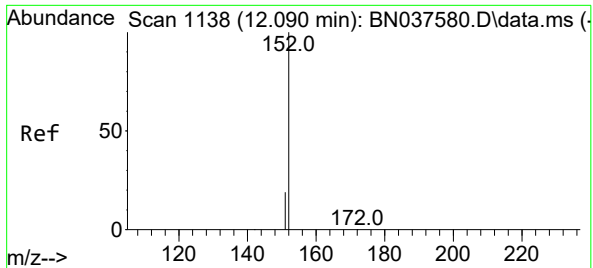


#10  
Hexachlorobutadiene  
Concen: 0.387 ng  
RT: 10.839 min Scan# 961  
Delta R.T. -0.011 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

Tgt Ion:225 Resp: 1625  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.3 50.8 76.2



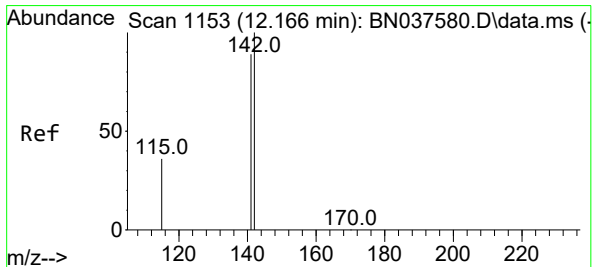
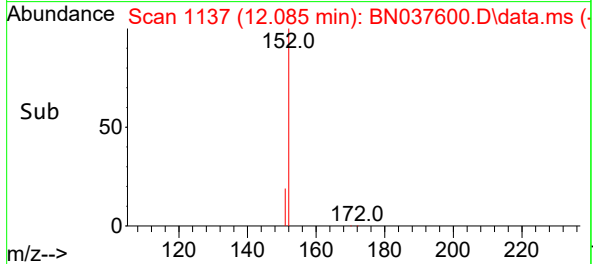
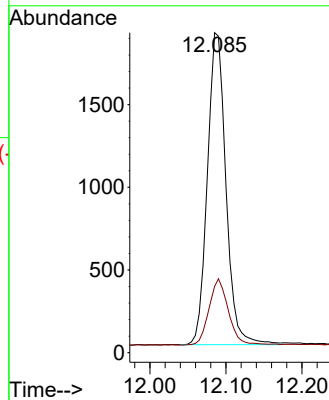
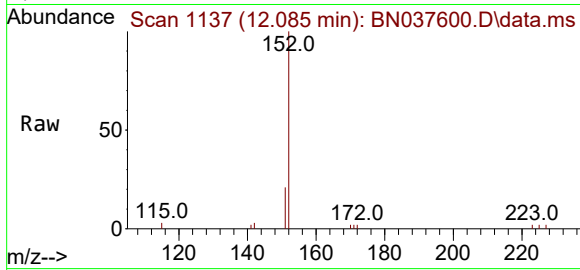




#11  
2-Methylnaphthalene-d10  
Concen: 0.366 ng  
RT: 12.085 min Scan# 1137  
Delta R.T. -0.005 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

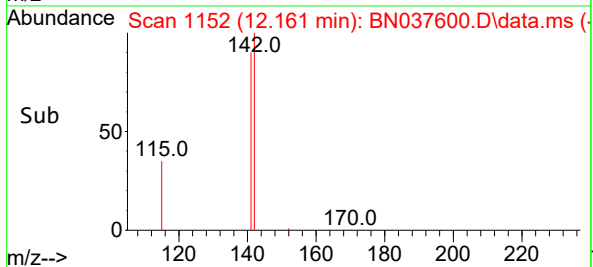
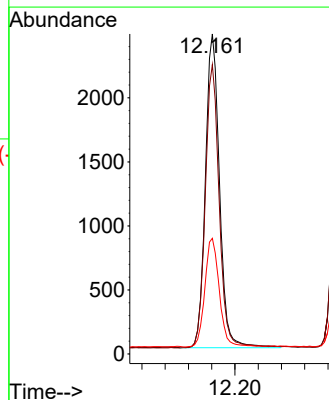
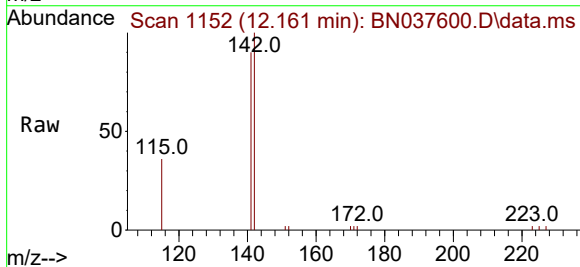
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

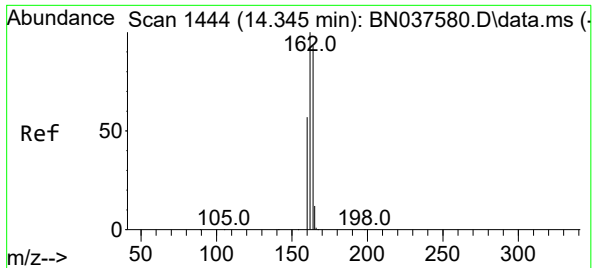
Tgt Ion:152 Resp: 3215  
Ion Ratio Lower Upper  
152 100  
151 22.1 17.3 25.9



#12  
2-Methylnaphthalene  
Concen: 0.383 ng  
RT: 12.161 min Scan# 1152  
Delta R.T. -0.005 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

Tgt Ion:142 Resp: 4129  
Ion Ratio Lower Upper  
142 100  
141 90.4 71.4 107.0  
115 36.2 30.2 45.4

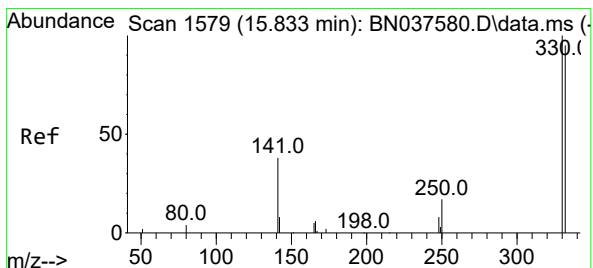
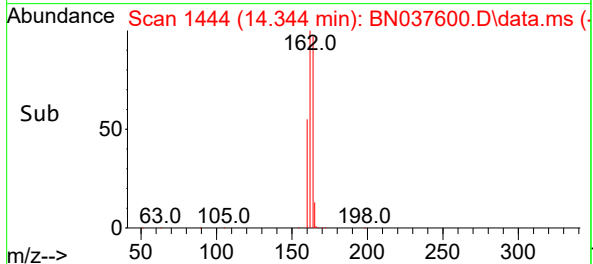
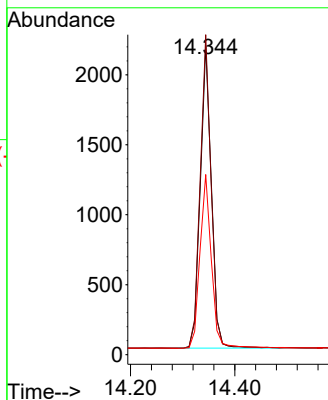
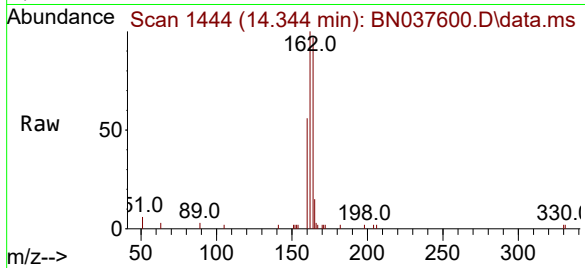




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.344 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

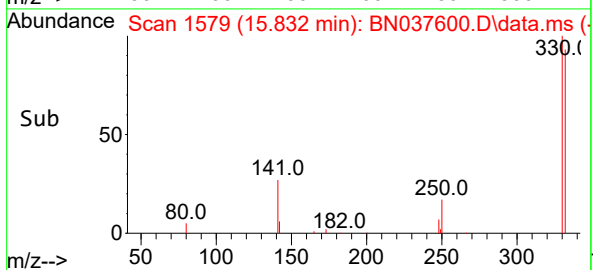
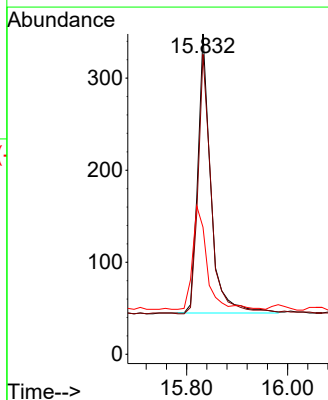
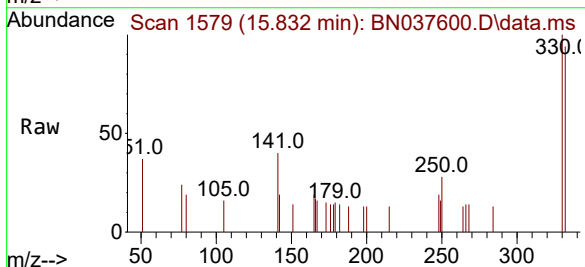
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

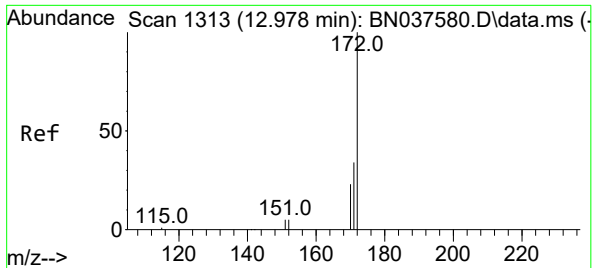
Tgt Ion:164 Resp: 3216  
Ion Ratio Lower Upper  
164 100  
162 103.5 85.5 128.3  
160 58.2 49.5 74.3



#14  
2,4,6-Tribromophenol  
Concen: 0.385 ng  
RT: 15.832 min Scan# 1579  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

Tgt Ion:330 Resp: 542  
Ion Ratio Lower Upper  
330 100  
332 95.6 77.4 116.0  
141 40.6 30.9 46.3

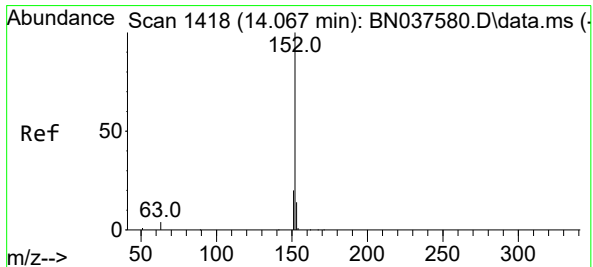
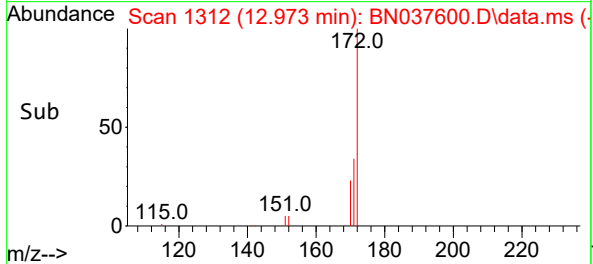
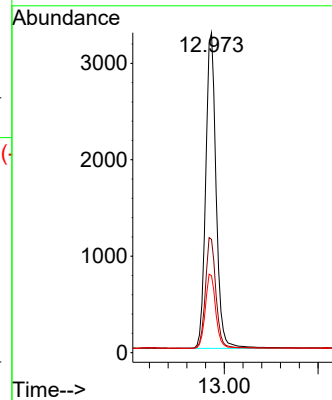
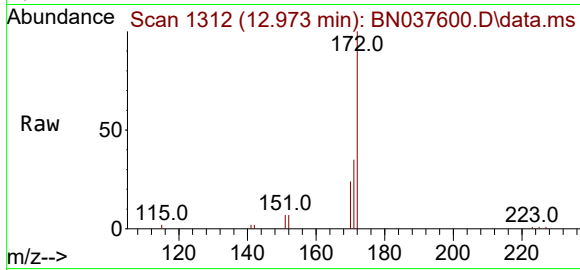




#15  
2-Fluorobiphenyl  
Concen: 0.378 ng  
RT: 12.973 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

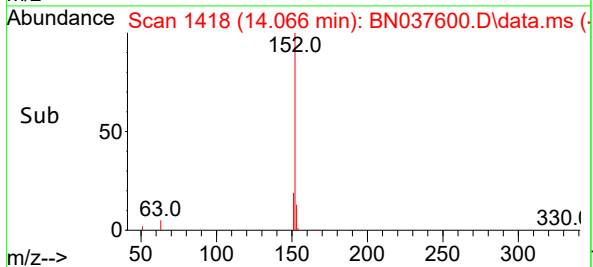
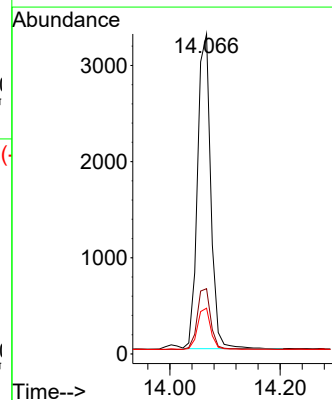
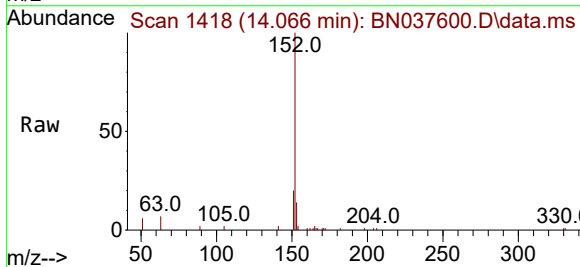
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

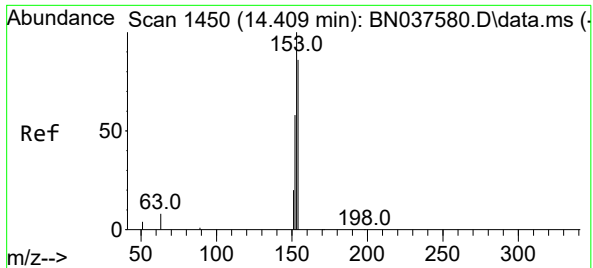
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 7030  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 35.4  | 28.2  | 42.4  |
| 170      | 24.1  | 19.2  | 28.8  |



#16  
Acenaphthylene  
Concen: 0.379 ng  
RT: 14.066 min Scan# 1418  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 5461  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.1  | 16.1  | 24.1  |
| 153      | 13.3  | 10.7  | 16.1  |

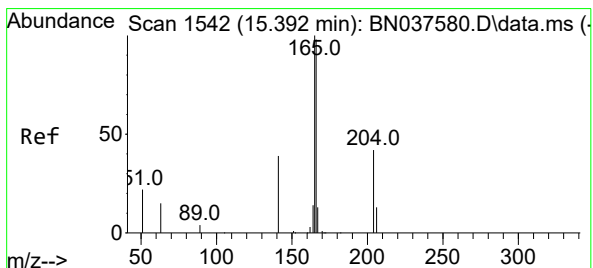
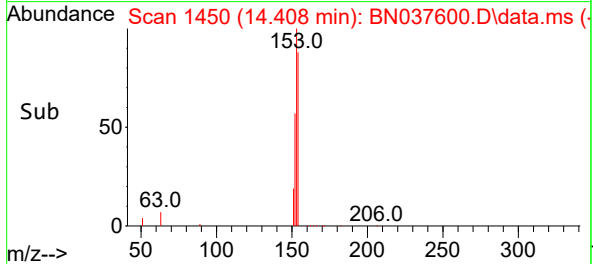
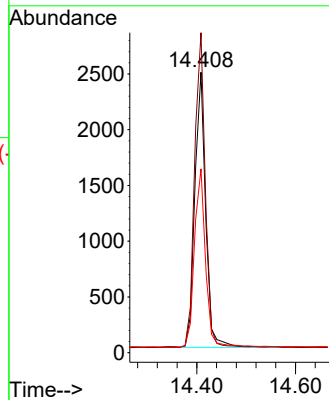
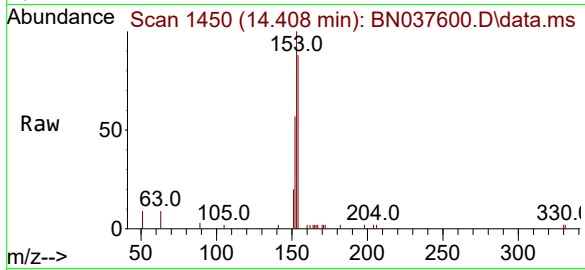




#17  
Acenaphthene  
Concen: 0.383 ng  
RT: 14.408 min Scan# 1450  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

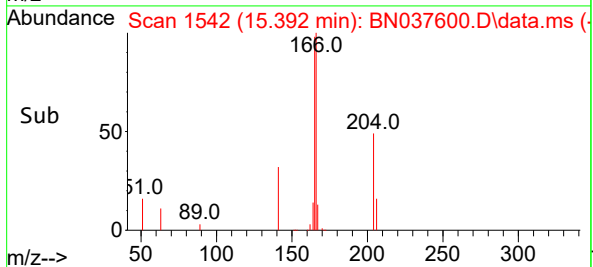
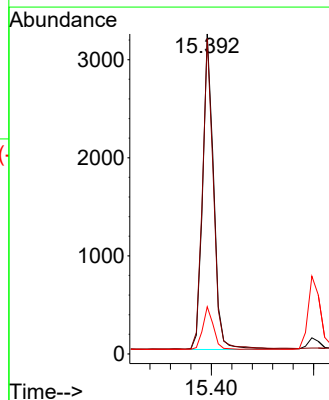
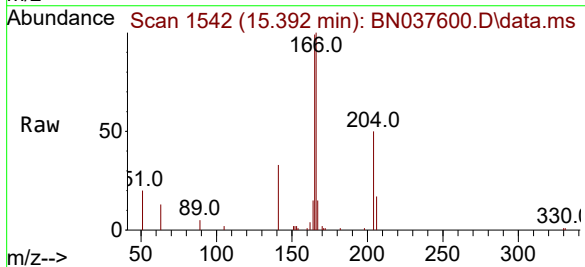
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

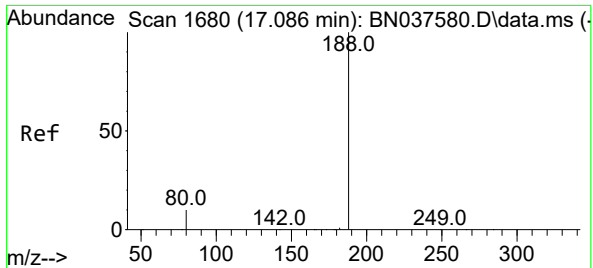
Tgt Ion:154 Resp: 3757  
Ion Ratio Lower Upper  
154 100  
153 113.2 90.6 135.8  
152 66.7 54.9 82.3



#18  
Fluorene  
Concen: 0.378 ng  
RT: 15.392 min Scan# 1542  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

Tgt Ion:166 Resp: 4853  
Ion Ratio Lower Upper  
166 100  
165 97.2 78.9 118.3  
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

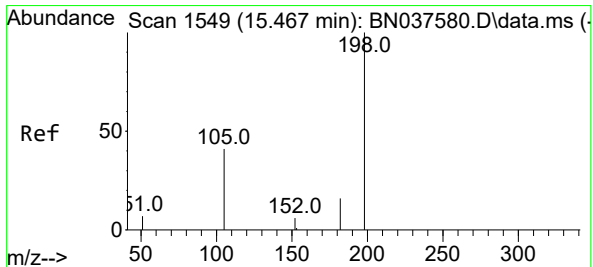
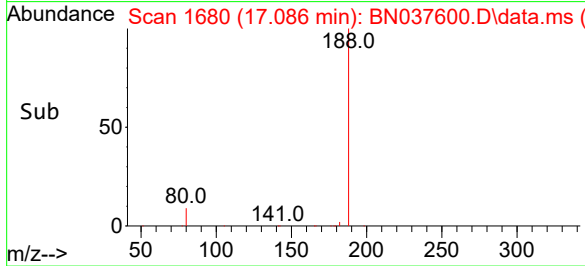
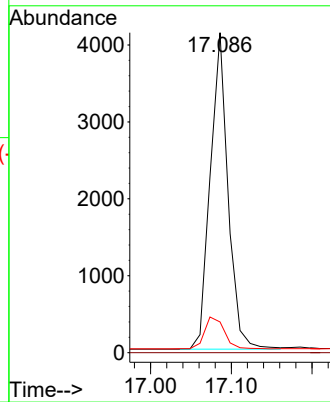
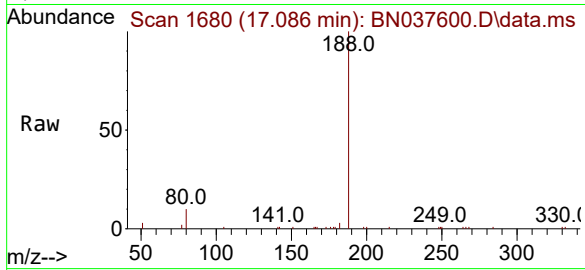
Tgt Ion:188 Resp: 6293

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.6 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.423 ng

RT: 15.467 min Scan# 1549

Delta R.T. -0.000 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

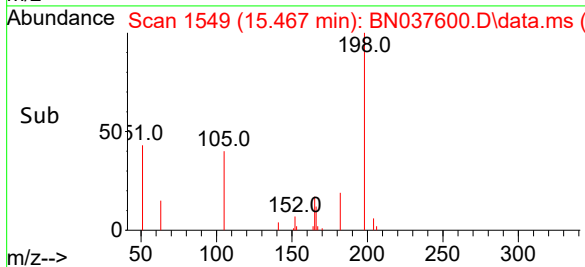
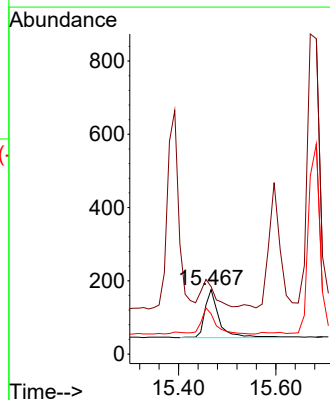
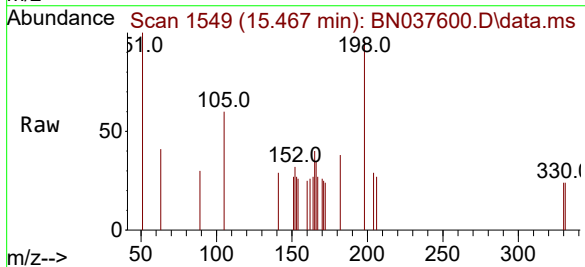
Tgt Ion:198 Resp: 277

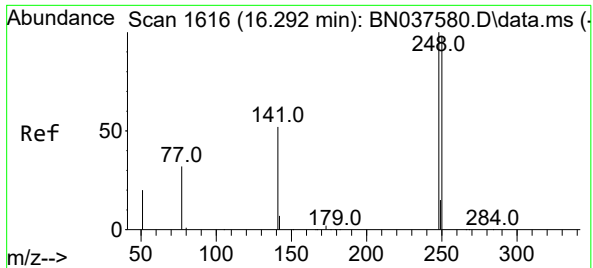
Ion Ratio Lower Upper

198 100

51 104.5 81.0 121.6

105 62.5 52.5 78.7

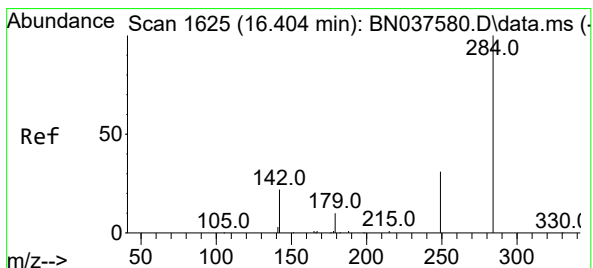
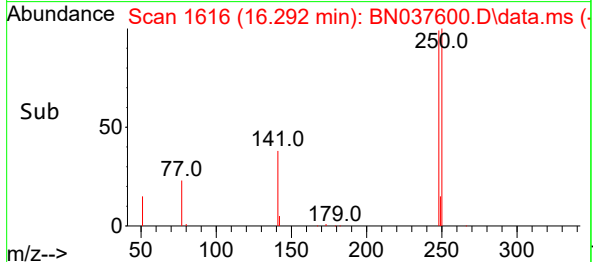
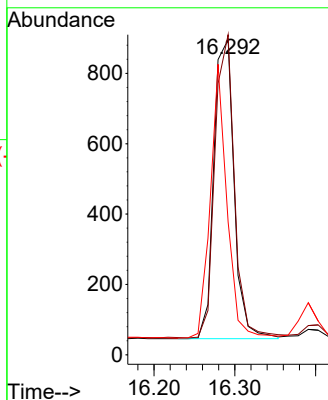
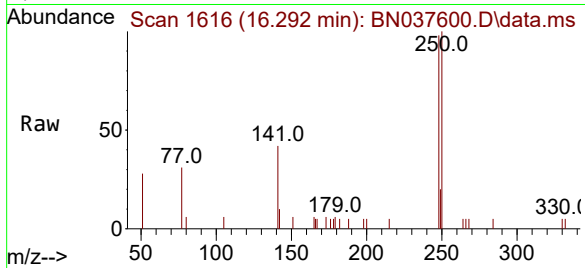




#21  
4-Bromophenyl-phenylether  
Concen: 0.374 ng  
RT: 16.292 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

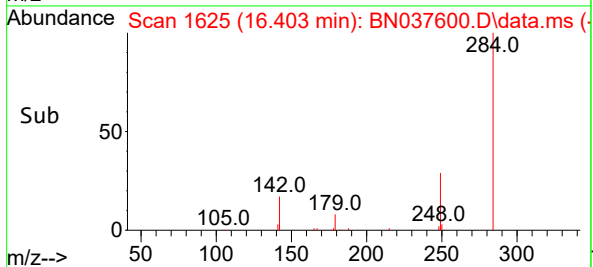
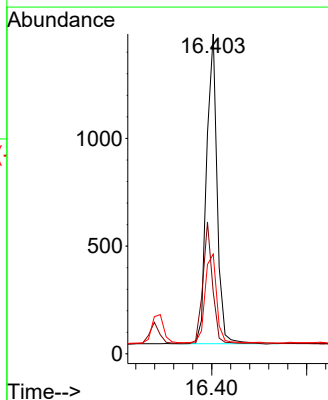
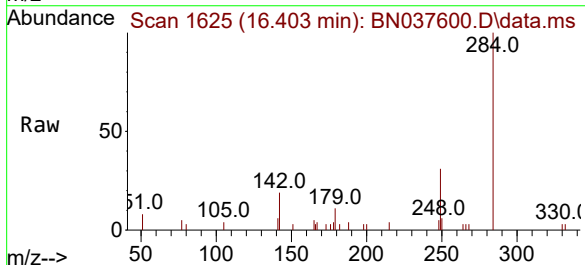
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

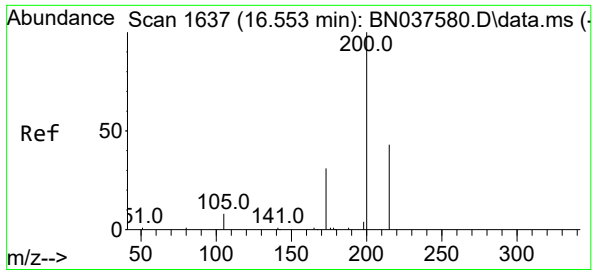
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 101.6 | 78.6  | 118.0 |
| 141     | 42.2  | 43.7  | 65.5# |



#22  
Hexachlorobenzene  
Concen: 0.397 ng  
RT: 16.403 min Scan# 1625  
Delta R.T. -0.001 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 36.6  | 29.8  | 44.6  |
| 249     | 32.0  | 26.0  | 39.0  |

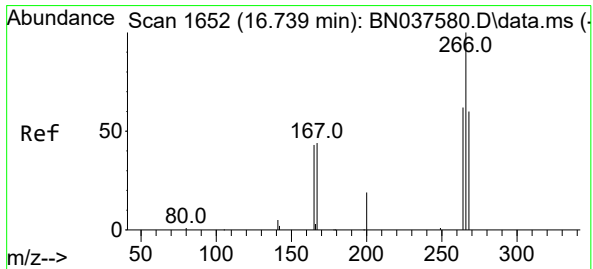
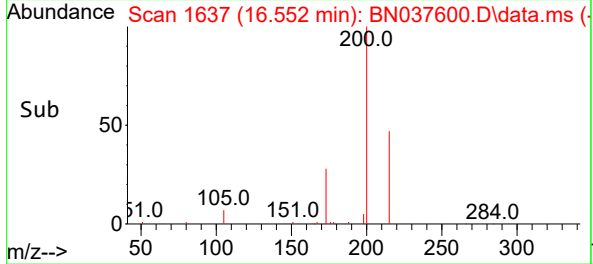
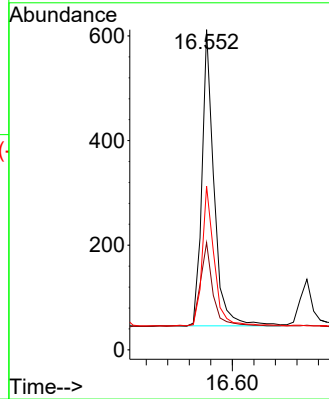
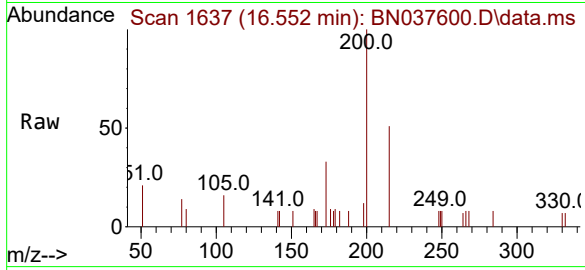




#23  
Atrazine  
Concen: 0.394 ng  
RT: 16.552 min Scan# 1637  
Delta R.T. -0.001 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

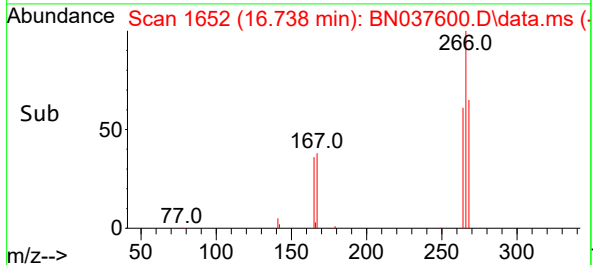
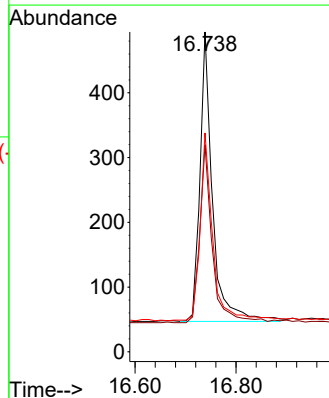
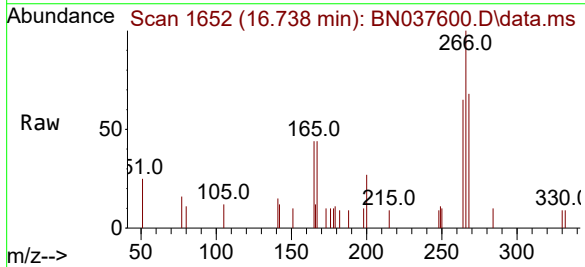
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

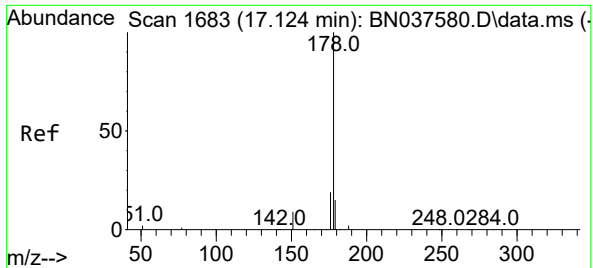
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 33.5  | 31.0  | 46.4  |
| 215     | 51.1  | 39.4  | 59.0  |



#24  
Pentachlorophenol  
Concen: 0.394 ng  
RT: 16.738 min Scan# 1652  
Delta R.T. -0.001 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 61.9  | 49.6  | 74.4  |
| 268     | 65.7  | 49.2  | 73.8  |

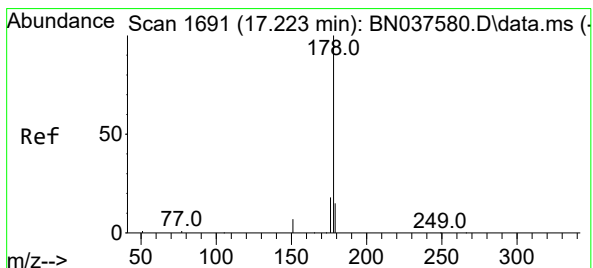
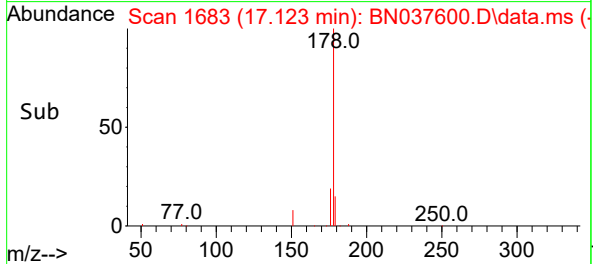
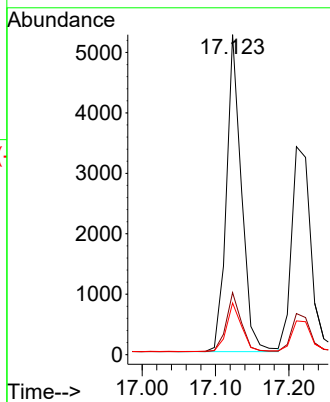
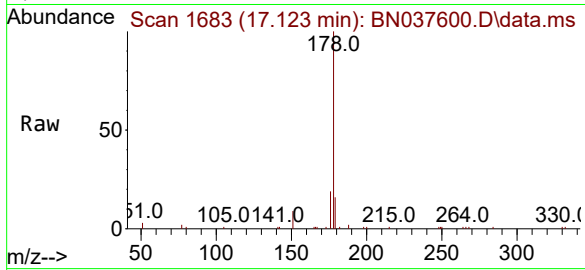




#25  
Phenanthrene  
Concen: 0.390 ng  
RT: 17.123 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

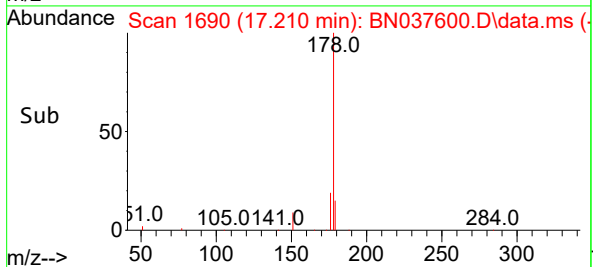
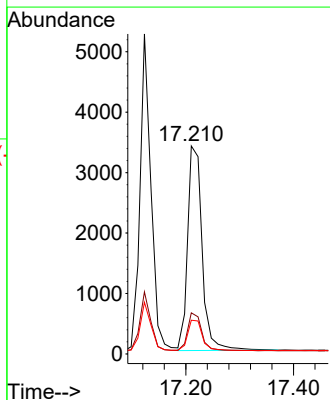
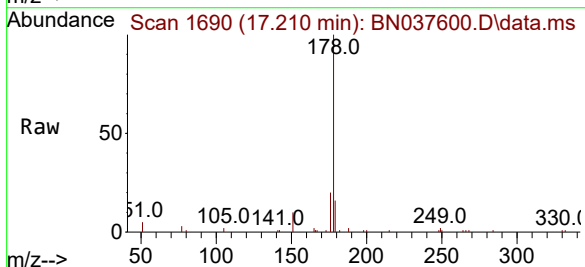
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:178 Resp: 7452  
Ion Ratio Lower Upper  
178 100  
176 18.7 15.0 22.6  
179 15.3 12.3 18.5

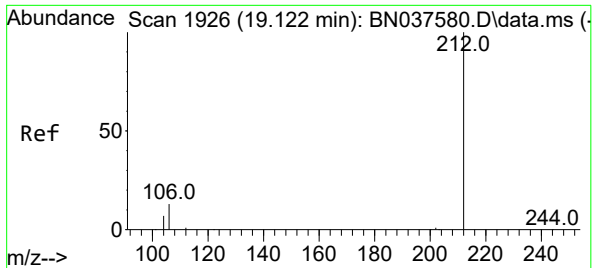


#26  
Anthracene  
Concen: 0.374 ng  
RT: 17.210 min Scan# 1690  
Delta R.T. -0.013 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

Tgt Ion:178 Resp: 6342  
Ion Ratio Lower Upper  
178 100  
176 18.0 14.7 22.1  
179 14.9 12.3 18.5



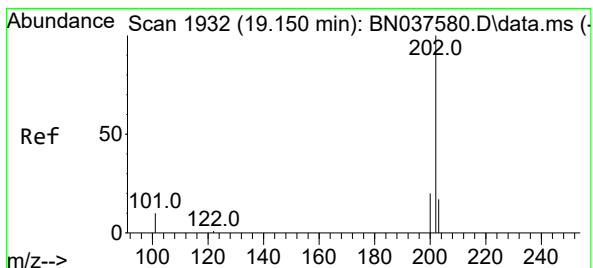
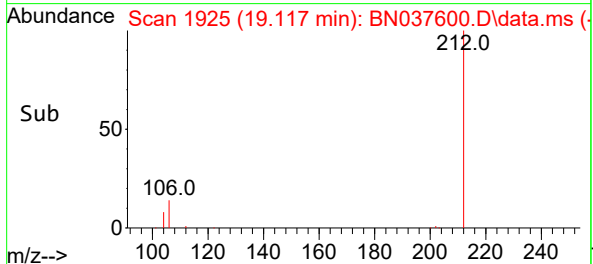
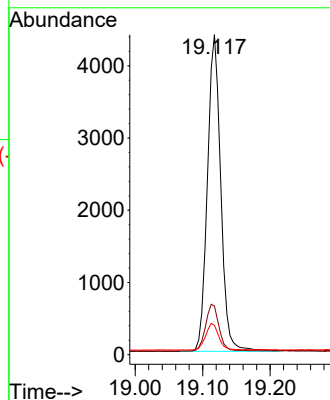
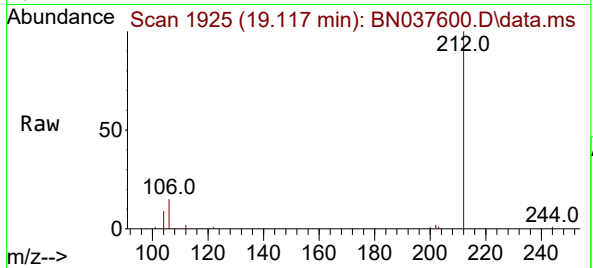




#27  
Fluoranthene-d10  
Concen: 0.364 ng  
RT: 19.117 min Scan# 1925  
Delta R.T. -0.005 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

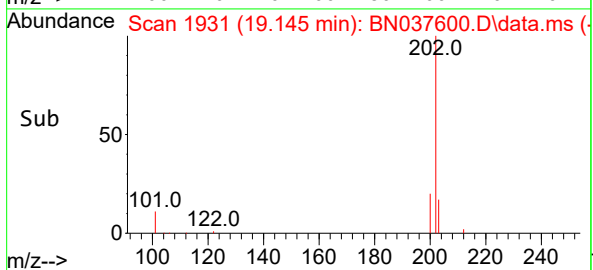
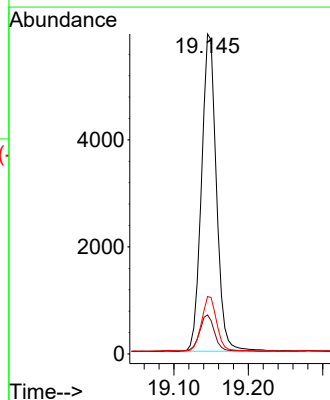
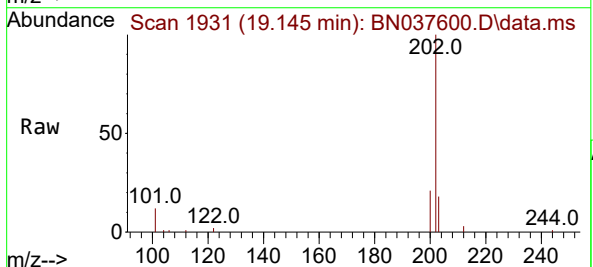
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

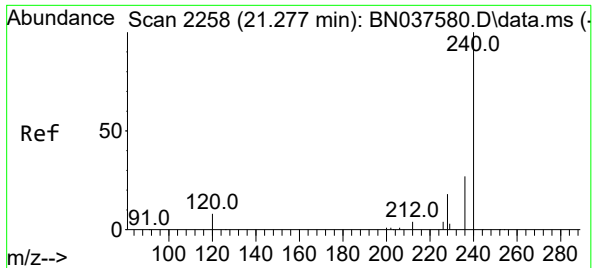
Tgt Ion:212 Resp: 6023  
Ion Ratio Lower Upper  
212 100  
106 15.0 11.5 17.3  
104 8.1 6.6 9.8



#28  
Fluoranthene  
Concen: 0.375 ng  
RT: 19.145 min Scan# 1931  
Delta R.T. -0.005 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

Tgt Ion:202 Resp: 8237  
Ion Ratio Lower Upper  
202 100  
101 11.7 9.0 13.6  
203 17.1 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.267 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

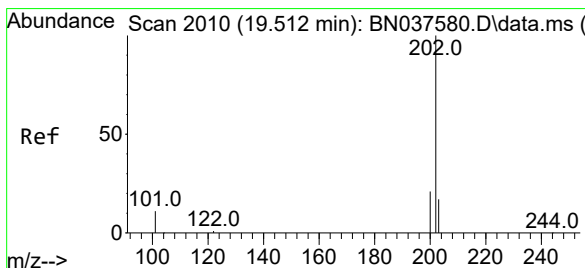
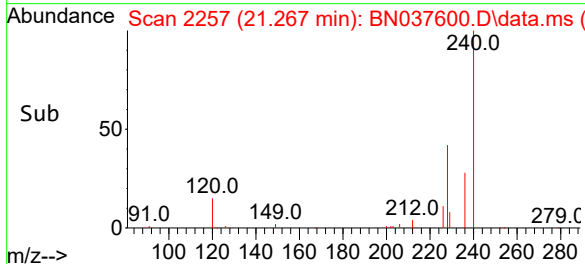
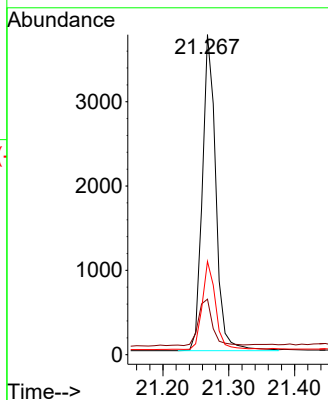
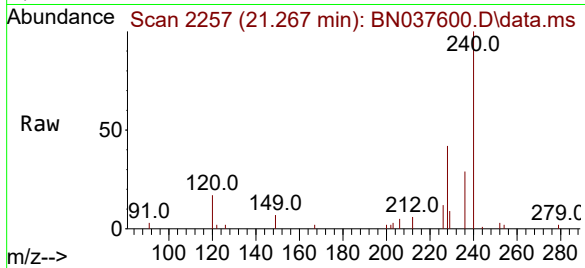
Tgt Ion:240 Resp: 5356

Ion Ratio Lower Upper

240 100

120 17.3 8.9 13.3#

236 29.1 22.6 33.8



#30

Pyrene

Concen: 0.405 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.005 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

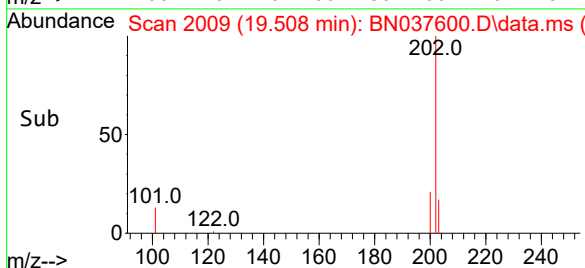
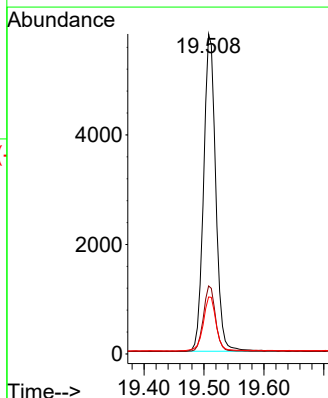
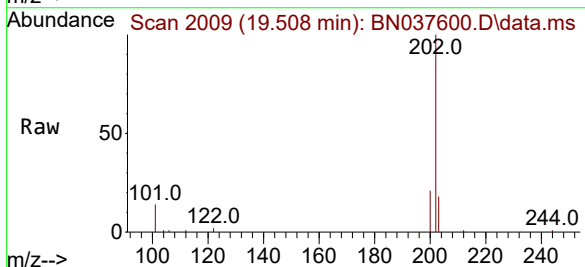
Tgt Ion:202 Resp: 8114

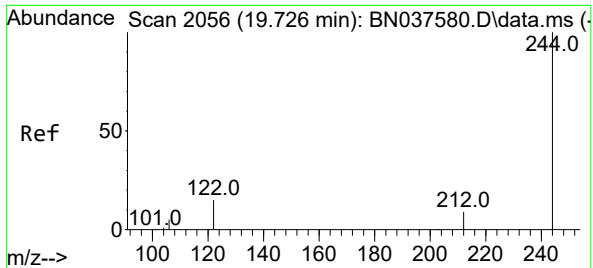
Ion Ratio Lower Upper

202 100

200 20.6 16.6 25.0

203 17.9 14.3 21.5

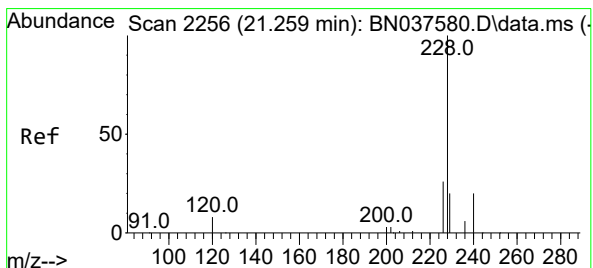
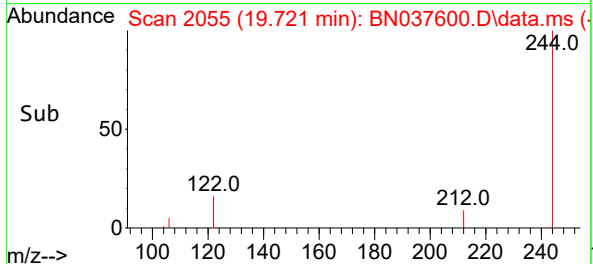
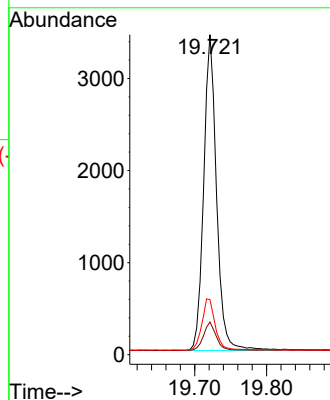
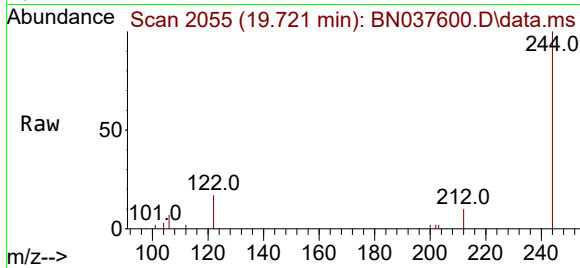




#31  
Terphenyl-d14  
Concen: 0.387 ng  
RT: 19.721 min Scan# 2055  
Delta R.T. -0.005 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

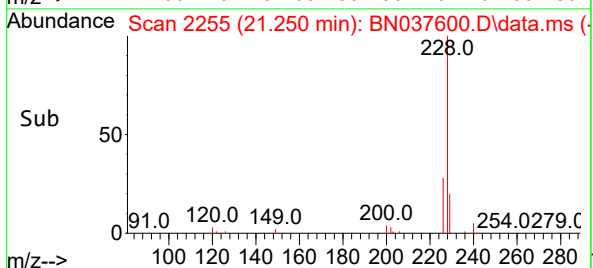
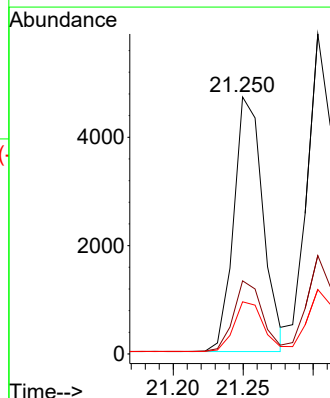
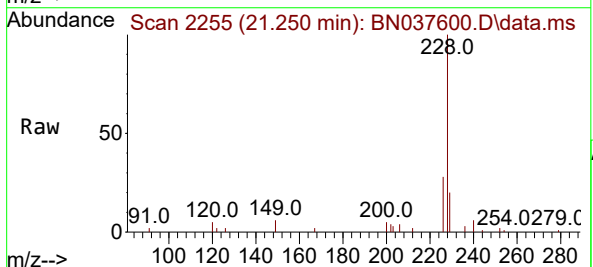
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

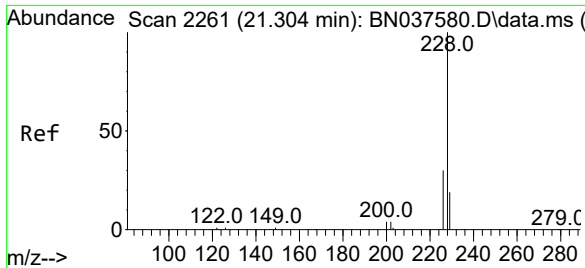
Tgt Ion:244 Resp: 4265  
Ion Ratio Lower Upper  
244 100  
212 10.2 8.2 12.2  
122 17.2 13.2 19.8



#32  
Benzo(a)anthracene  
Concen: 0.382 ng  
RT: 21.250 min Scan# 2255  
Delta R.T. -0.009 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

Tgt Ion:228 Resp: 6833  
Ion Ratio Lower Upper  
228 100  
226 28.5 21.5 32.3  
229 20.3 16.5 24.7





#33

Chrysene

Concen: 0.405 ng

RT: 21.303 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

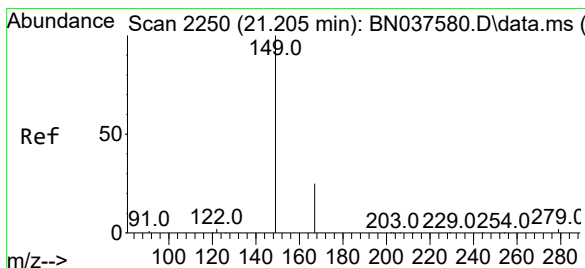
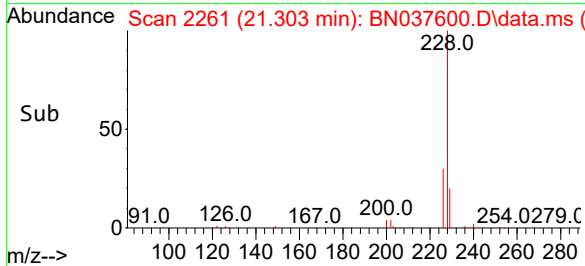
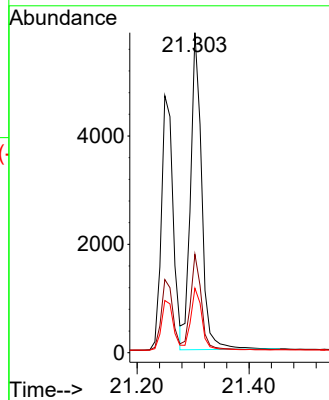
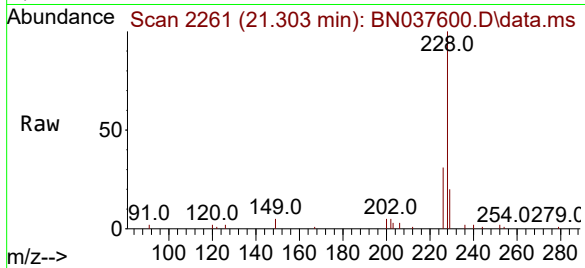
Tgt Ion:228 Resp: 8075

Ion Ratio Lower Upper

228 100

226 30.8 24.9 37.3

229 20.1 15.8 23.8



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.405 ng

RT: 21.205 min Scan# 2250

Delta R.T. -0.000 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

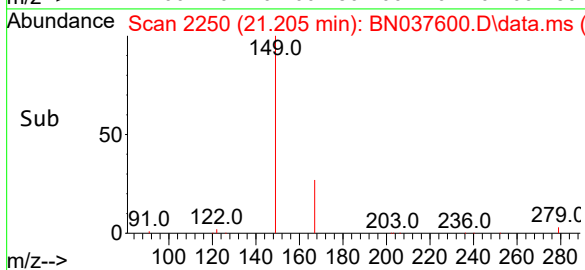
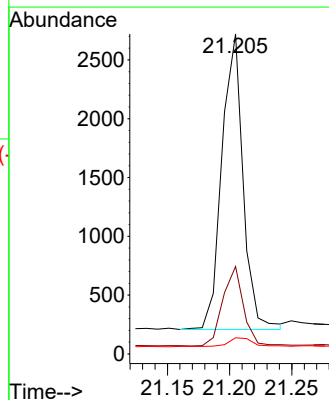
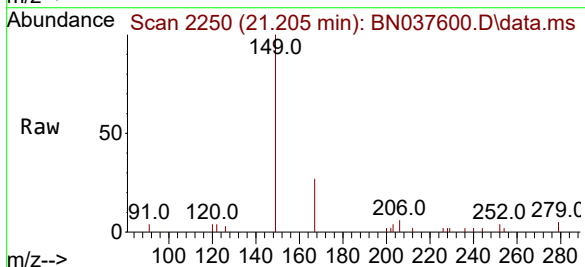
Tgt Ion:149 Resp: 2987

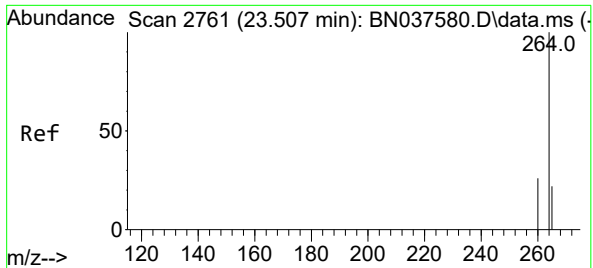
Ion Ratio Lower Upper

149 100

167 26.2 20.5 30.7

279 3.7 2.6 4.0

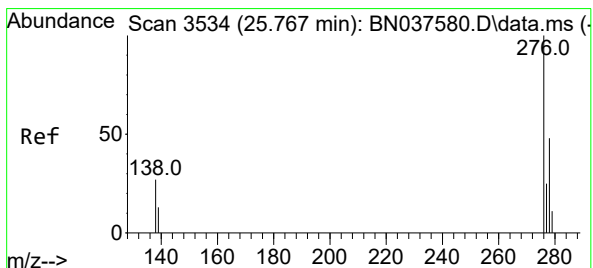
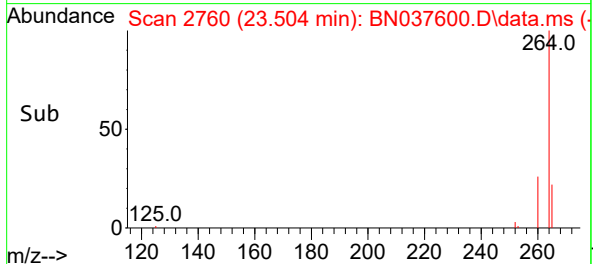
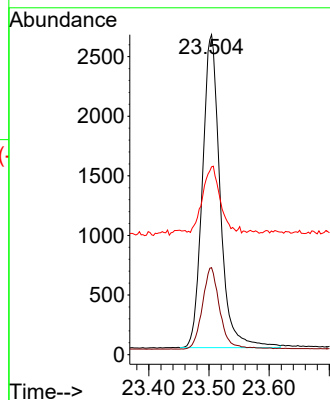
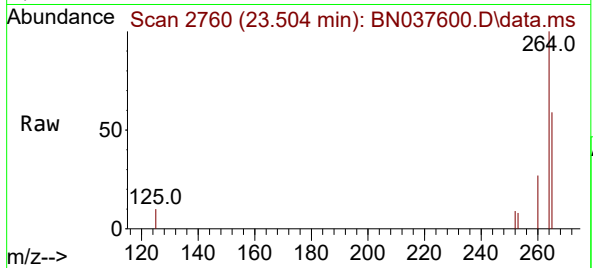




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.504 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

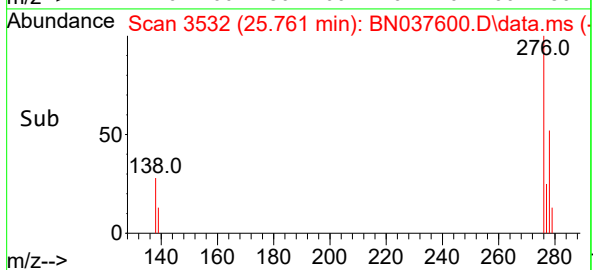
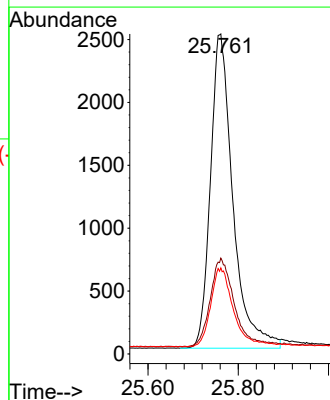
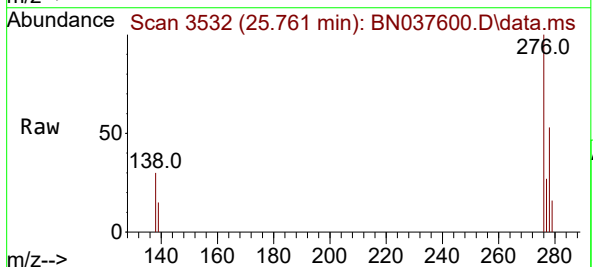
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

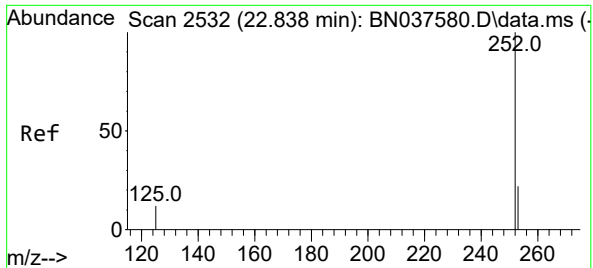
Tgt Ion:264 Resp: 5379  
Ion Ratio Lower Upper  
264 100  
260 27.2 21.6 32.4  
265 58.7 48.2 72.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.381 ng  
RT: 25.761 min Scan# 3532  
Delta R.T. -0.006 min  
Lab File: BN037600.D  
Acq: 19 Aug 2025 10:39

Tgt Ion:276 Resp: 8634  
Ion Ratio Lower Upper  
276 100  
138 30.5 23.3 34.9  
277 25.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.358 ng

RT: 22.832 min Scan# 2532

Delta R.T. -0.006 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

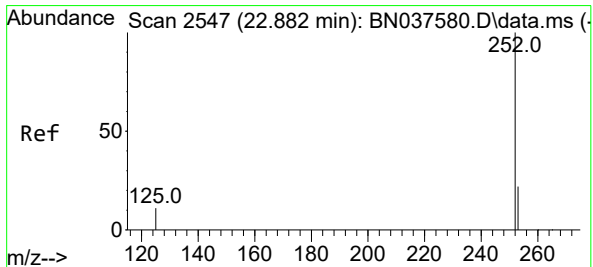
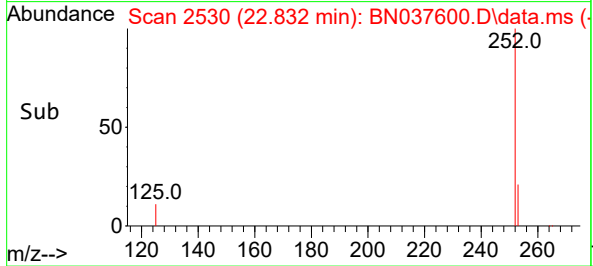
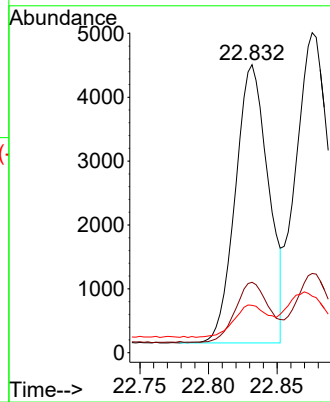
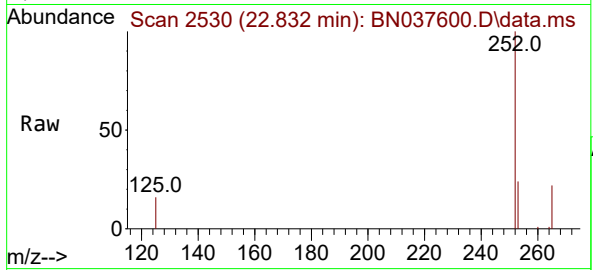
Tgt Ion:252 Resp: 7289

Ion Ratio Lower Upper

252 100

253 24.5 20.0 30.0

125 16.5 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.381 ng

RT: 22.876 min Scan# 2545

Delta R.T. -0.006 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

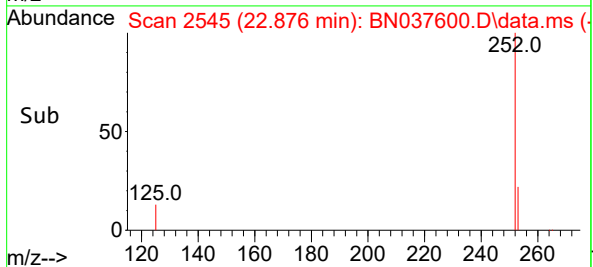
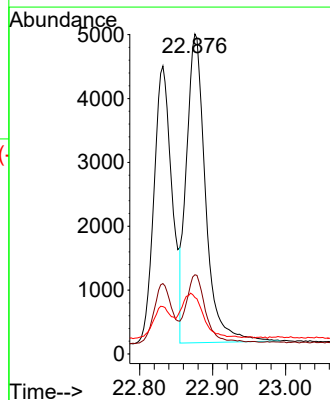
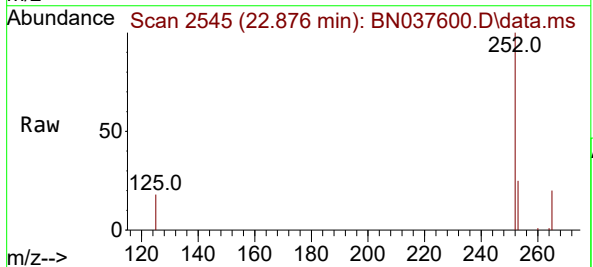
Tgt Ion:252 Resp: 8761

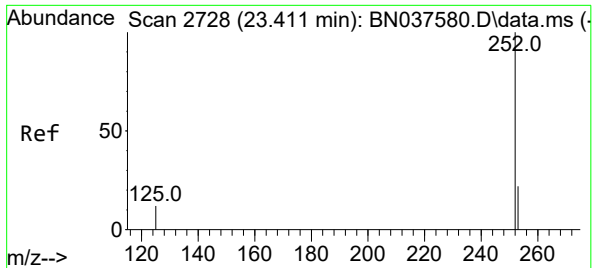
Ion Ratio Lower Upper

252 100

253 24.7 19.9 29.9

125 17.7 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.370 ng

RT: 23.405 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037600.D

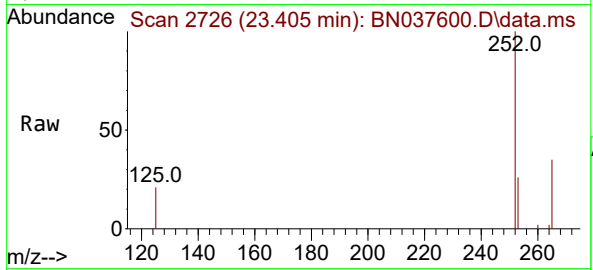
Acq: 19 Aug 2025 10:39

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



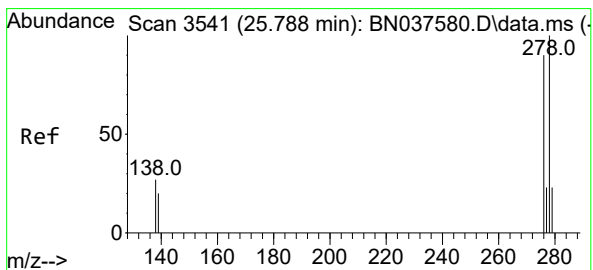
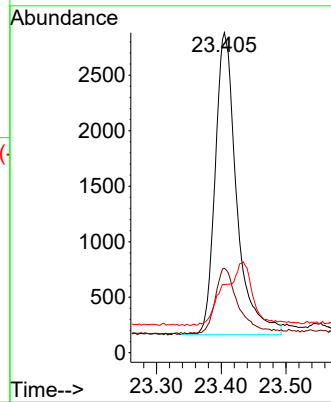
Tgt Ion:252 Resp: 6262

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 252 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 253 | 26.4 | 21.6 | 32.4 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 125 | 21.3 | 16.8 | 25.2 |
|-----|------|------|------|



#40

Dibenzo(a,h)anthracene

Concen: 0.369 ng

RT: 25.779 min Scan# 3538

Delta R.T. -0.009 min

Lab File: BN037600.D

Acq: 19 Aug 2025 10:39

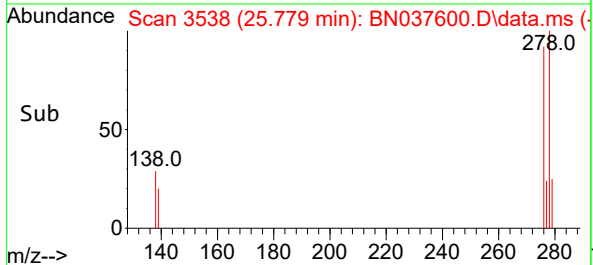
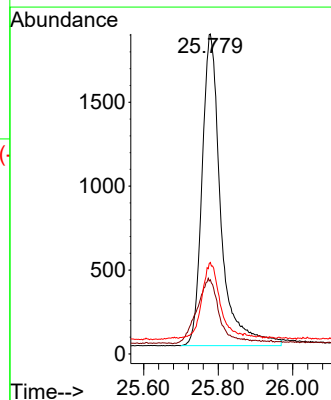
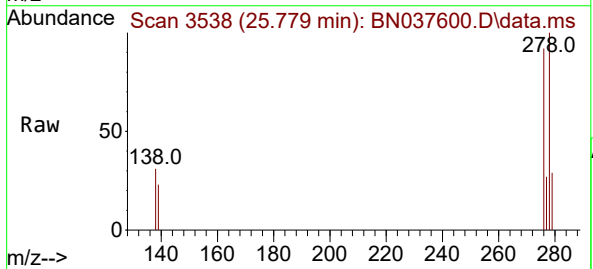
Tgt Ion:278 Resp: 6490

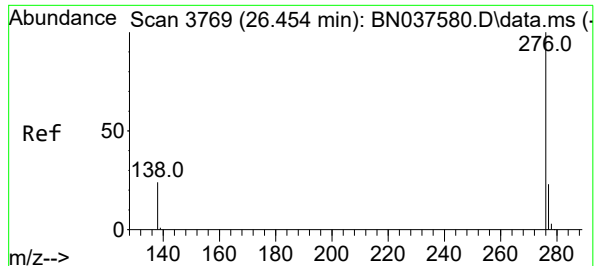
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 278 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 139 | 23.2 | 18.3 | 27.5 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 279 | 28.6 | 22.5 | 33.7 |
|-----|------|------|------|





#41

Benzo(g,h,i)perylene

Concen: 0.388 ng

RT: 26.448 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037600.D

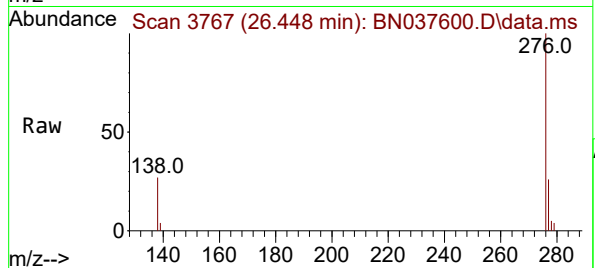
Acq: 19 Aug 2025 10:39

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



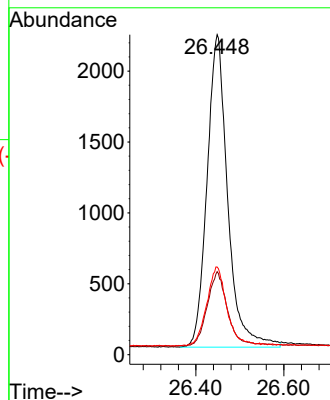
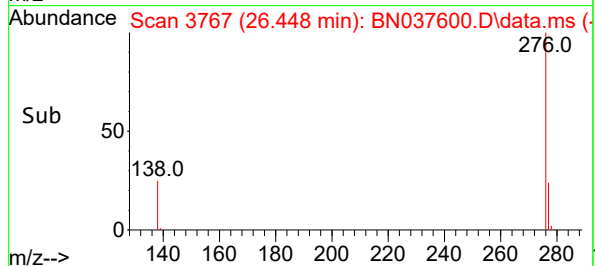
Tgt Ion:276 Resp: 7193

Ion Ratio Lower Upper

276 100

277 25.9 21.0 31.4

138 27.4 21.7 32.5





Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037600.D  
 Acq On : 19 Aug 2025 10:39  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Aug 20 01:24:09 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | AvgRF | CCRF  | %Dev | Area% | Dev(min) |
|---------|----------------------------|-------|-------|------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0  | 125   | 0.00     |
| 2       | 1,4-Dioxane                | 0.383 | 0.406 | -6.0 | 128   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.489 | 0.478 | 2.2  | 122   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.907 | 0.907 | 0.0  | 128   | 0.00     |
| 5 S     | Phenol-d6                  | 1.091 | 1.078 | 1.2  | 129   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.983 | 1.003 | -2.0 | 128   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0  | 126   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.282 | 0.275 | 2.5  | 132   | 0.00     |
| 9       | Naphthalene                | 1.065 | 1.053 | 1.1  | 128   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.260 | 0.252 | 3.1  | 121   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.544 | 0.498 | 8.5  | 123   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.668 | 0.639 | 4.3  | 127   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0  | 127   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.175 | 0.169 | 3.4  | 137   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 2.313 | 2.186 | 5.5  | 121   | 0.00     |
| 16      | Acenaphthylene             | 1.793 | 1.698 | 5.3  | 126   | 0.00     |
| 17      | Acenaphthene               | 1.220 | 1.168 | 4.3  | 127   | 0.00     |
| 18      | Fluorene                   | 1.596 | 1.509 | 5.5  | 126   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 125   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.053 | 0.044 | 17.0 | 120   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.251 | 0.235 | 6.4  | 126   | 0.00     |
| 22      | Hexachlorobenzene          | 0.356 | 0.353 | 0.8  | 124   | 0.00     |
| 23      | Atrazine                   | 0.142 | 0.140 | 1.4  | 135   | 0.00     |
| 24      | Pentachlorophenol          | 0.125 | 0.123 | 1.6  | 136   | 0.00     |
| 25      | Phenanthrene               | 1.216 | 1.184 | 2.6  | 127   | 0.00     |
| 26      | Anthracene                 | 1.077 | 1.008 | 6.4  | 127   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 1.052 | 0.957 | 9.0  | 125   | 0.00     |
| 28      | Fluoranthene               | 1.397 | 1.309 | 6.3  | 126   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 124   | 0.00     |
| 30      | Pyrene                     | 1.495 | 1.515 | -1.3 | 128   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.823 | 0.796 | 3.3  | 124   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.336 | 1.276 | 4.5  | 125   | 0.00     |
| 33      | Chrysene                   | 1.489 | 1.508 | -1.3 | 131   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.551 | 0.558 | -1.3 | 133   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0  | 128   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.686 | 1.605 | 4.8  | 128   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.516 | 1.355 | 10.6 | 130   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.710 | 1.629 | 4.7  | 127   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.257 | 1.164 | 7.4  | 130   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.308 | 1.207 | 7.7  | 127   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.378 | 1.337 | 3.0  | 136   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037600.D  
 Acq On : 19 Aug 2025 10:39  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Aug 20 01:24:09 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | Amount | Calc. | %Dev | Area% | Dev(min) |
|---------|----------------------------|--------|-------|------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0  | 125   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.424 | -6.0 | 128   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.391 | 2.3  | 122   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.400 | 0.0  | 128   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.395 | 1.3  | 129   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.408 | -2.0 | 128   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0  | 126   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.391 | 2.3  | 132   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.396 | 1.0  | 128   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.387 | 3.3  | 121   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.366 | 8.5  | 123   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.383 | 4.3  | 127   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0  | 127   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.385 | 3.8  | 137   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.378 | 5.5  | 121   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.379 | 5.3  | 126   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.383 | 4.3  | 127   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.378 | 5.5  | 126   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0  | 125   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.423 | -5.7 | 120   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.374 | 6.5  | 126   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.397 | 0.8  | 124   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.394 | 1.5  | 135   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.394 | 1.5  | 136   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.390 | 2.5  | 127   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.374 | 6.5  | 127   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.364 | 9.0  | 125   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.375 | 6.3  | 126   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0  | 124   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.405 | -1.3 | 128   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.387 | 3.3  | 124   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.382 | 4.5  | 125   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.405 | -1.3 | 131   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.405 | -1.3 | 133   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0  | 128   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.381 | 4.8  | 128   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.358 | 10.5 | 130   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.381 | 4.8  | 127   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.370 | 7.5  | 130   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.369 | 7.8  | 127   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.388 | 3.0  | 136   | 0.00     |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: Alliance Contract: JAC005  
 Lab Code: ACE SDG No.: Q2842  
 Instrument ID: BNA\_N Calibration Date/Time: 08/20/2025 04:14  
 Lab File ID: BN037618.D Init. Calib. Date(s): 08/12/2025 08/12/2025  
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 16:26 20:05  
 GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D   | MAX%D |
|-------------------------|-------|--------|------------|------|-------|
| 2-Methylnaphthalene-d10 | 0.544 | 0.498  |            | -8.5 | 20.0  |
| Fluoranthene-d10        | 1.052 | 0.951  |            | -9.6 | 20.0  |
| 2-Fluorophenol          | 0.907 | 0.875  |            | -3.5 | 20.0  |
| Phenol-d6               | 1.091 | 1.045  |            | -4.2 | 20.0  |
| Nitrobenzene-d5         | 0.282 | 0.281  |            | -0.4 | 20.0  |
| 2-Fluorobiphenyl        | 2.313 | 2.246  |            | -2.9 | 20.0  |
| 2,4,6-Tribromophenol    | 0.175 | 0.175  |            | 0.0  | 20.0  |
| Terphenyl-d14           | 0.823 | 0.793  |            | -3.6 | 20.0  |
| 1,4-Dioxane             | 0.383 | 0.380  |            | -0.8 | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037618.D  
 Acq On : 20 Aug 2025 04:14  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Aug 20 06:13:19 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

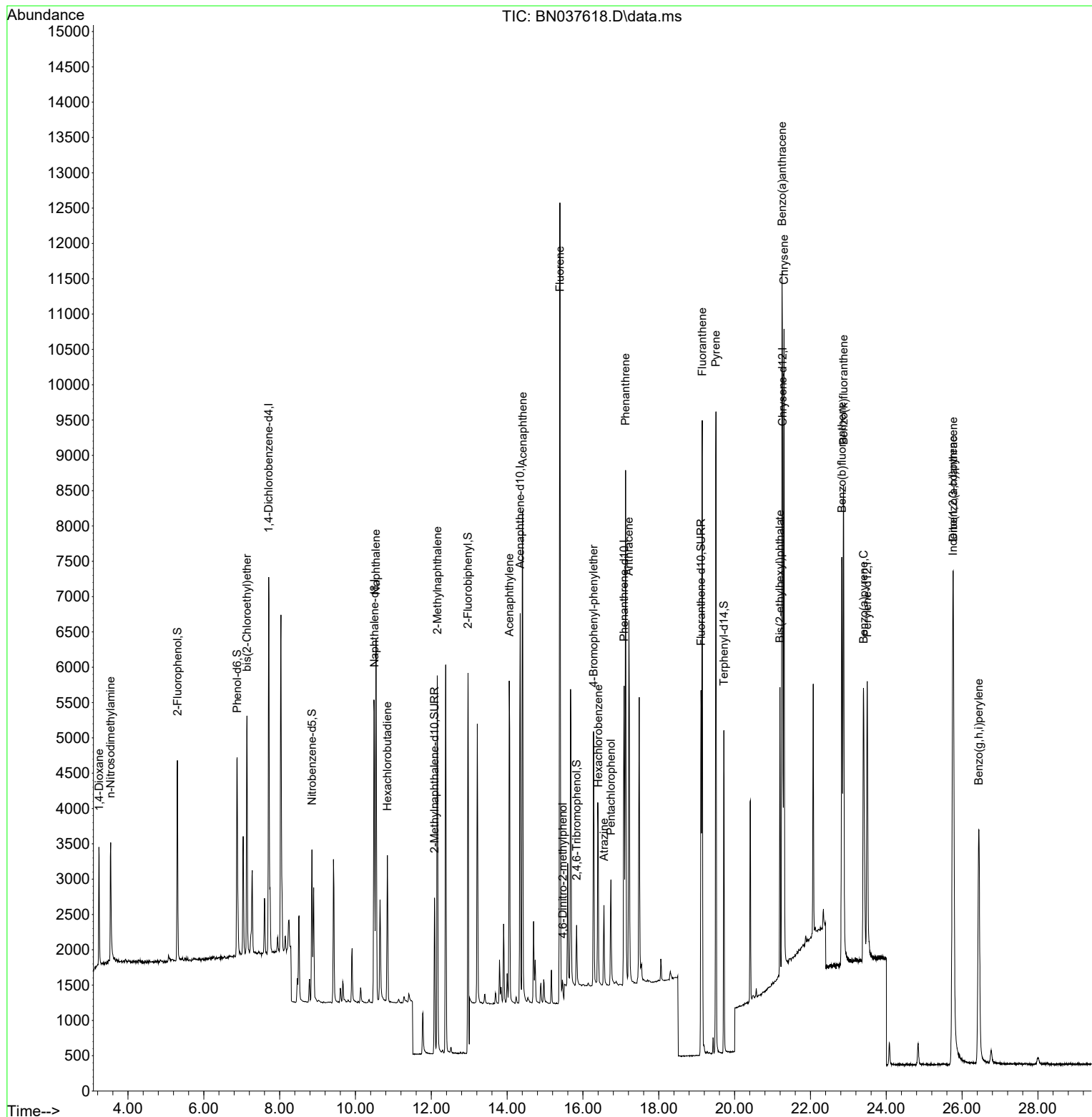
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.710  | 152  | 2622     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 6166     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 3094     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 6113     | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.268 | 240  | 5494     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.499 | 264  | 5322     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 2293     | 0.386 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 2739     | 0.383 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 1733     | 0.399 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.085 | 152  | 3068     | 0.366 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 541      | 0.400 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.968 | 172  | 6948     | 0.388 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.113 | 212  | 5813     | 0.361 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.717 | 244  | 4354     | 0.385 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 996      | 0.397 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.543  | 42   | 1251     | 0.390 | ng    | 98       |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 2522     | 0.391 | ng    | 97       |
| 9) Naphthalene                | 10.541 | 128  | 6581     | 0.401 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.840 | 225  | 1692     | 0.422 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.162 | 142  | 3979     | 0.386 | ng    | 99       |
| 16) Acenaphthylene            | 14.056 | 152  | 5458     | 0.394 | ng    | 99       |
| 17) Acenaphthene              | 14.409 | 154  | 3630     | 0.385 | ng    | 99       |
| 18) Fluorene                  | 15.392 | 166  | 4767     | 0.386 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.467 | 198  | 208      | 0.368 | ng    | 95       |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248  | 1521     | 0.396 | ng    | # 82     |
| 22) Hexachlorobenzene         | 16.404 | 284  | 2290     | 0.420 | ng    | 98       |
| 23) Atrazine                  | 16.553 | 200  | 941      | 0.433 | ng    | # 92     |
| 24) Pentachlorophenol         | 16.739 | 266  | 807      | 0.422 | ng    | 95       |
| 25) Phenanthrene              | 17.124 | 178  | 7226     | 0.389 | ng    | 100      |
| 26) Anthracene                | 17.211 | 178  | 6209     | 0.377 | ng    | 100      |
| 28) Fluoranthene              | 19.146 | 202  | 8030     | 0.376 | ng    | 99       |
| 30) Pyrene                    | 19.508 | 202  | 8292     | 0.404 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.250 | 228  | 7217     | 0.393 | ng    | 99       |
| 33) Chrysene                  | 21.304 | 228  | 7950     | 0.389 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149  | 3567     | 0.471 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.756 | 276  | 9347     | 0.417 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.829 | 252  | 7542     | 0.374 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.873 | 252  | 8901     | 0.391 | ng    | 98       |
| 39) Benzo(a)pyrene            | 23.399 | 252  | 6340     | 0.379 | ng    | 98       |
| 40) Dibenzo(a,h)anthracene    | 25.768 | 278  | 7121     | 0.409 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 26.440 | 276  | 7272     | 0.397 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

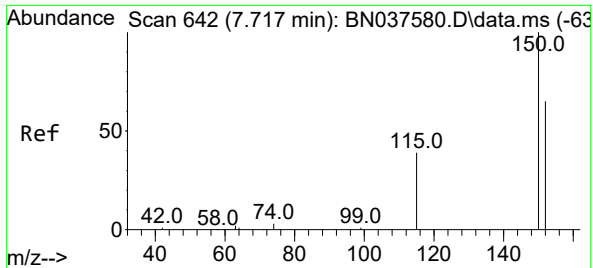
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037618.D  
Acq On : 20 Aug 2025 04:14  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 19 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

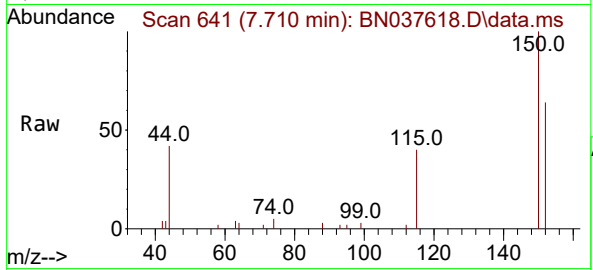
Quant Time: Aug 20 06:13:19 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration



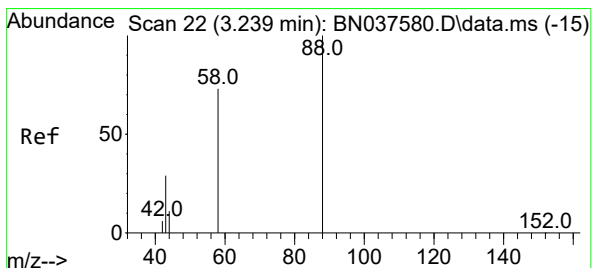
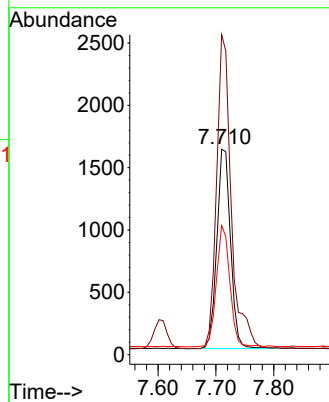
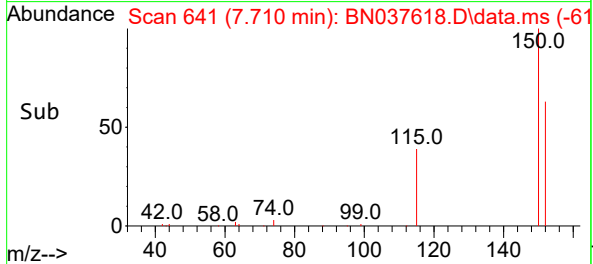


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.710 min Scan# 64  
 Delta R.T. -0.007 min  
 Lab File: BN037618.D  
 Acq: 20 Aug 2025 04:14

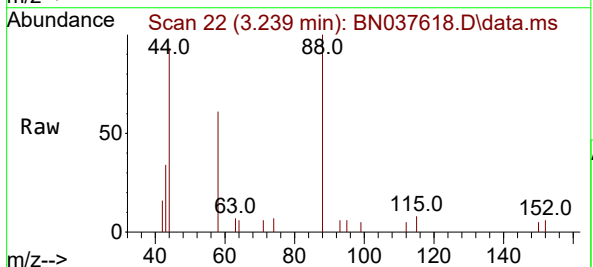
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4



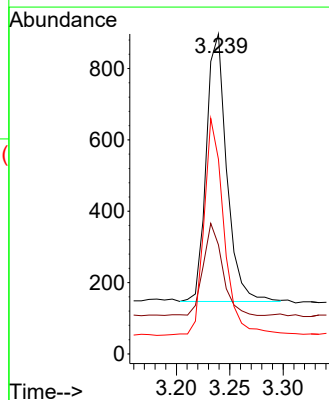
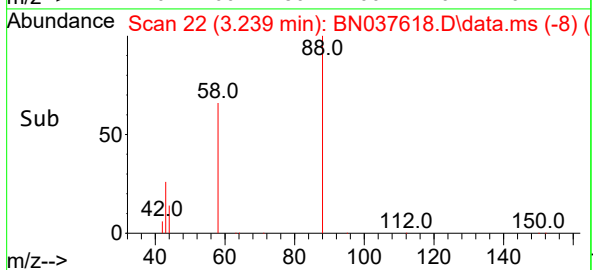
Tgt Ion:152 Resp: 2622  
 Ion Ratio Lower Upper  
 152 100  
 150 155.8 122.2 183.4  
 115 62.9 49.8 74.6

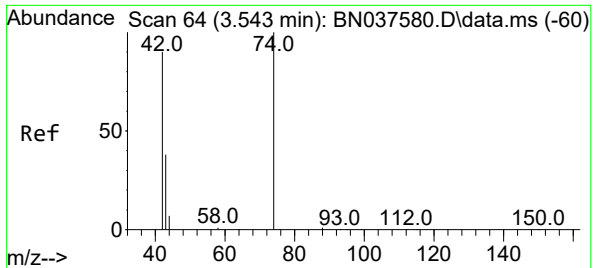


#2  
 1,4-Dioxane  
 Concen: 0.397 ng  
 RT: 3.239 min Scan# 22  
 Delta R.T. 0.000 min  
 Lab File: BN037618.D  
 Acq: 20 Aug 2025 04:14



Tgt Ion: 88 Resp: 996  
 Ion Ratio Lower Upper  
 88 100  
 43 32.3 25.8 38.6  
 58 80.3 61.2 91.8

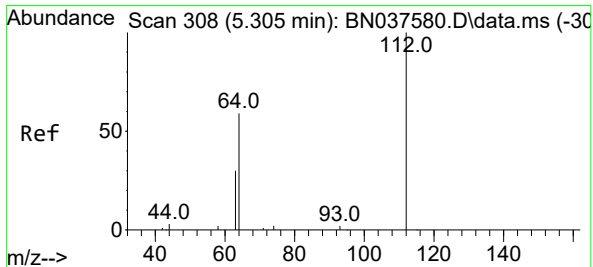
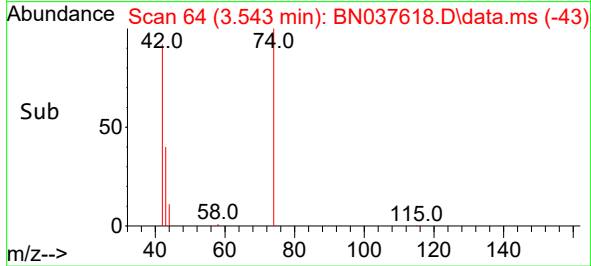
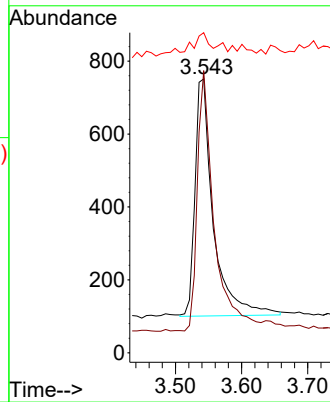
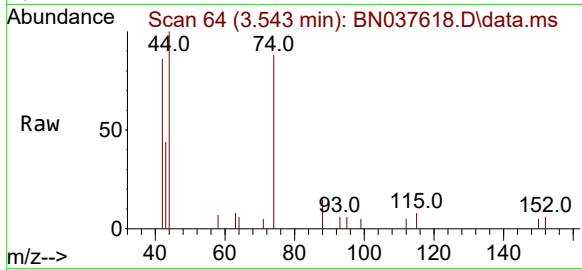




#3  
n-Nitrosodimethylamine  
Concen: 0.390 ng  
RT: 3.543 min Scan# 64  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

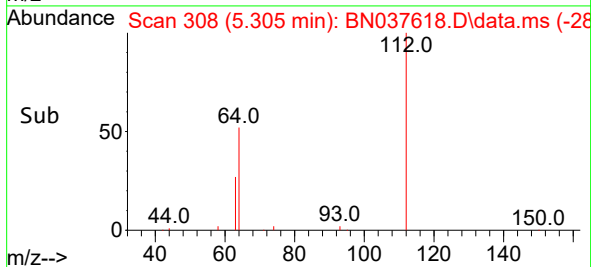
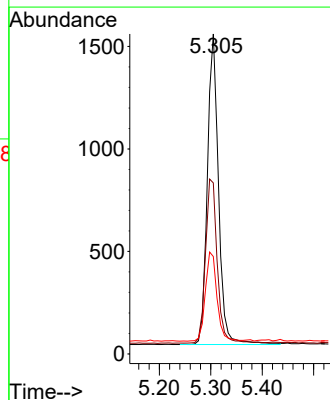
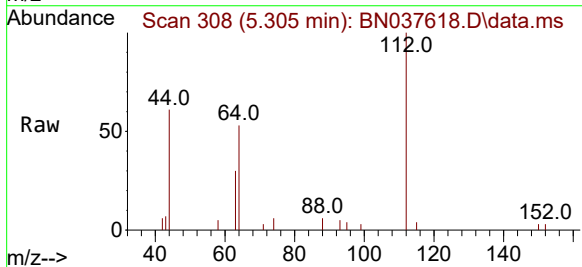
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

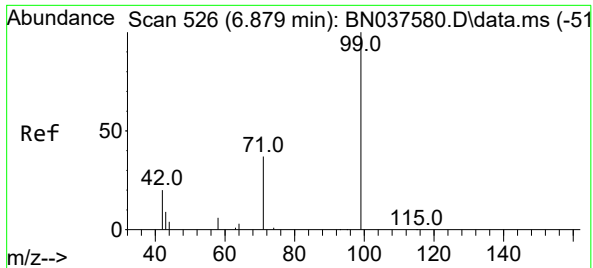
Tgt Ion: 42 Resp: 1251  
Ion Ratio Lower Upper  
42 100  
74 100.6 82.0 123.0  
44 10.8 7.9 11.9



#4  
2-Fluorophenol  
Concen: 0.386 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

Tgt Ion: 112 Resp: 2293  
Ion Ratio Lower Upper  
112 100  
64 55.5 44.9 67.3  
63 29.9 23.4 35.2

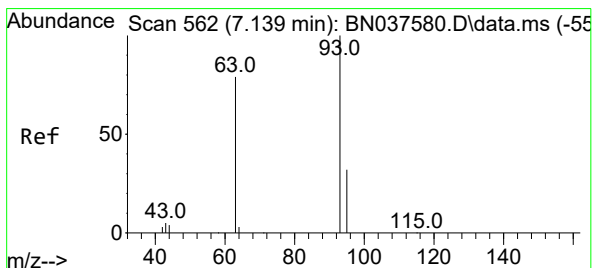
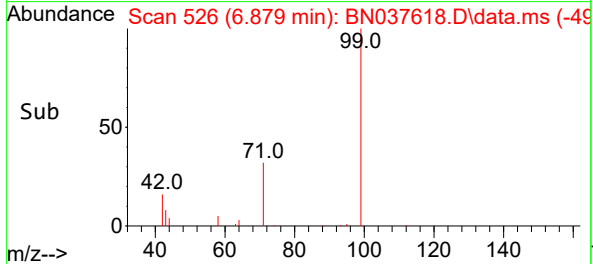
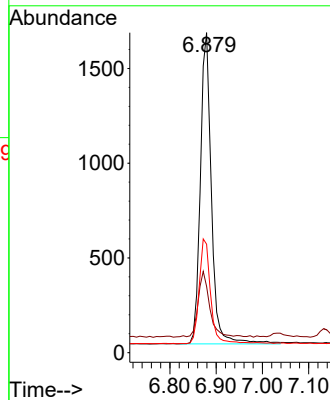
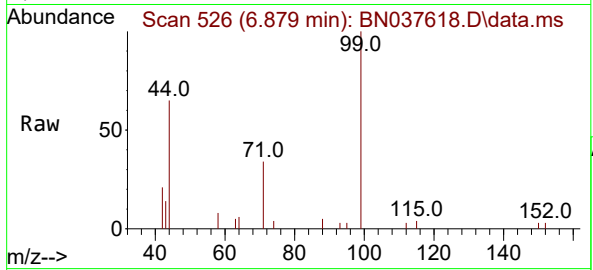




#5  
Phenol-d6  
Concen: 0.383 ng  
RT: 6.879 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

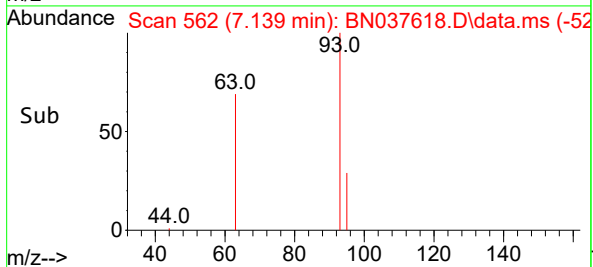
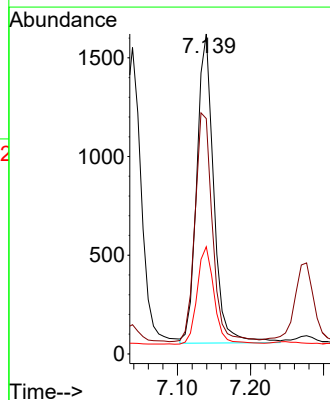
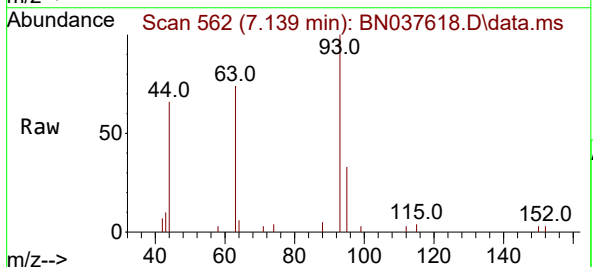
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion: 99 Resp: 2739  
Ion Ratio Lower Upper  
99 100  
42 21.9 18.5 27.7  
71 34.3 28.6 42.8

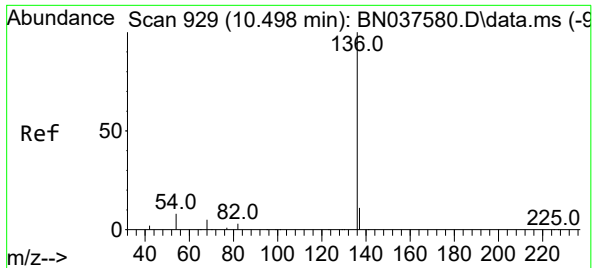


#6  
bis(2-Chloroethyl)ether  
Concen: 0.391 ng  
RT: 7.139 min Scan# 562  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

Tgt Ion: 93 Resp: 2522  
Ion Ratio Lower Upper  
93 100  
63 76.0 58.0 87.0  
95 31.7 24.9 37.3



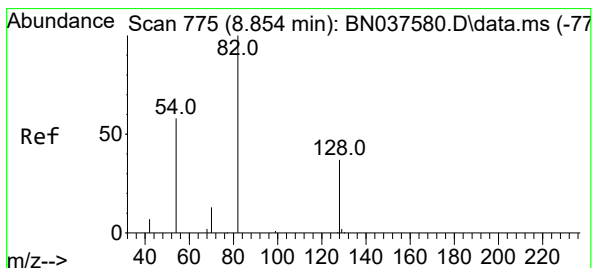
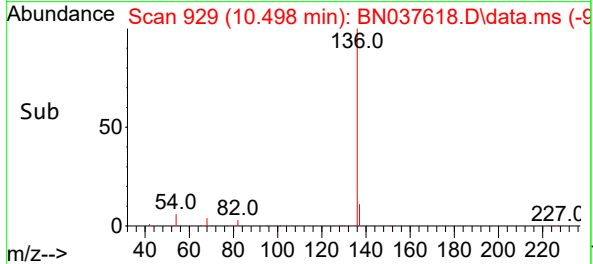
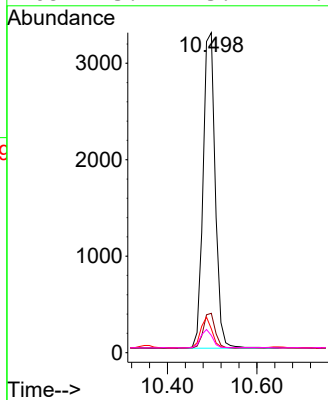
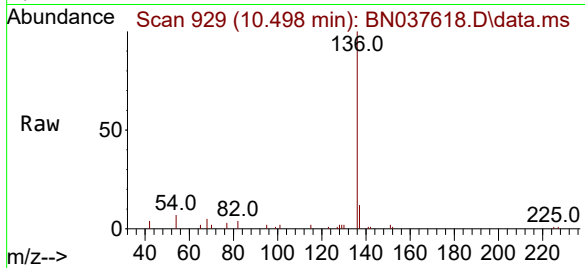




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 91  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

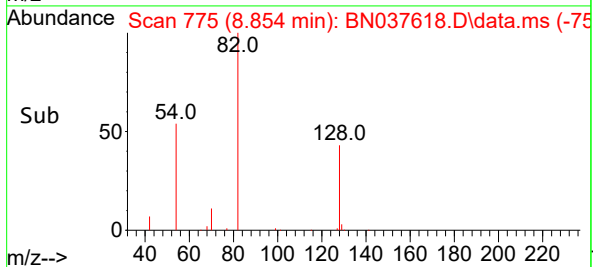
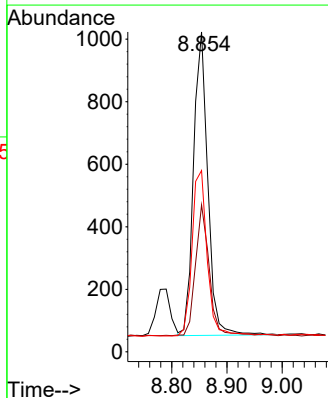
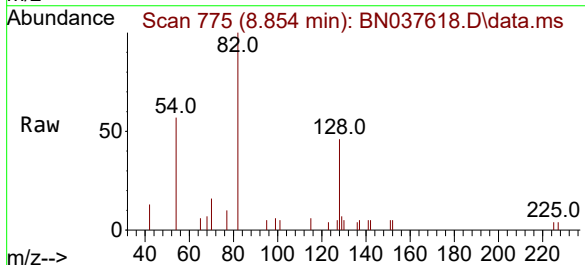
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

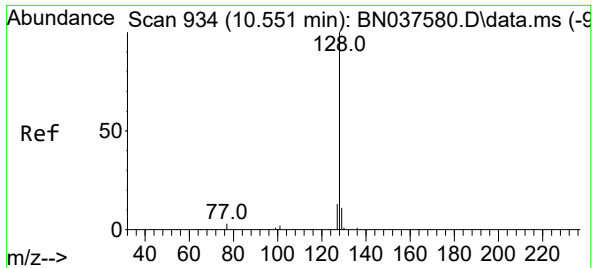
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 6166  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.3  | 9.5   | 14.3  |
| 54       | 7.4   | 7.3   | 10.9  |
| 68       | 5.4   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.399 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1733  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.9  | 32.6  | 48.8  |
| 54       | 56.7  | 48.9  | 73.3  |

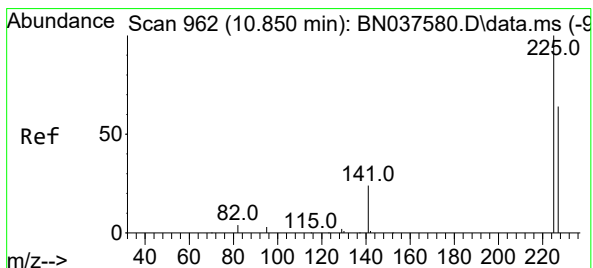
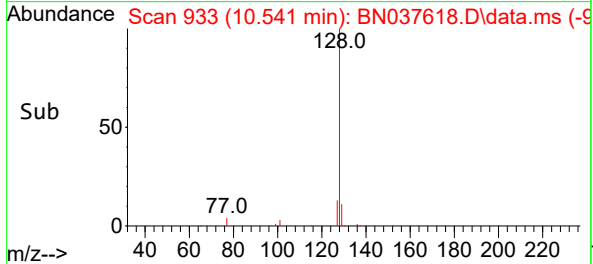
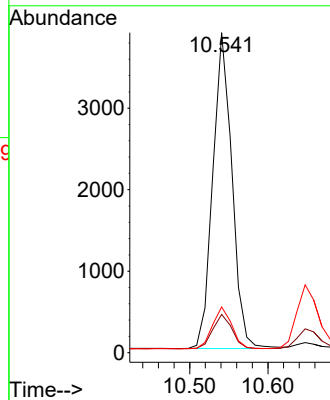
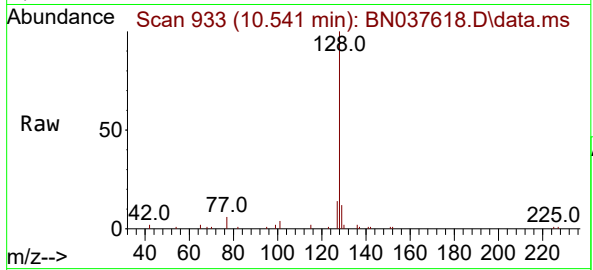




#9  
Naphthalene  
Concen: 0.401 ng  
RT: 10.541 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

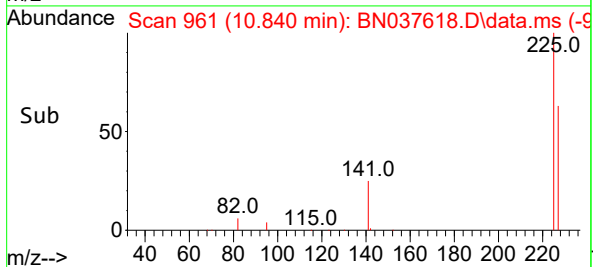
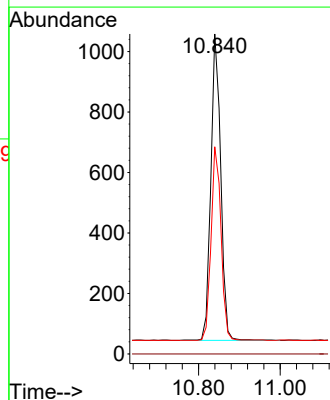
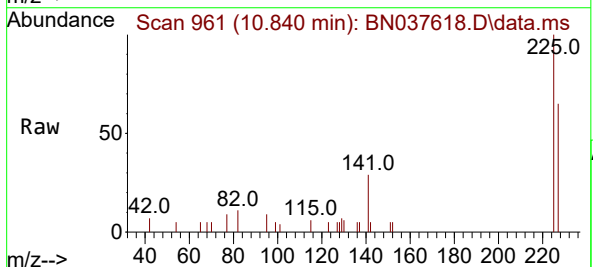
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

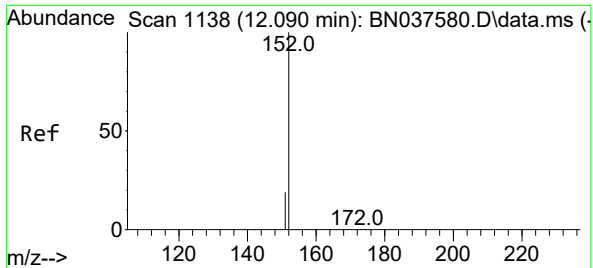
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 6581  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.9  | 9.8   | 14.6  |
| 127      | 14.3  | 11.5  | 17.3  |



#10  
Hexachlorobutadiene  
Concen: 0.422 ng  
RT: 10.840 min Scan# 961  
Delta R.T. -0.011 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 1692  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.9  | 50.8  | 76.2  |

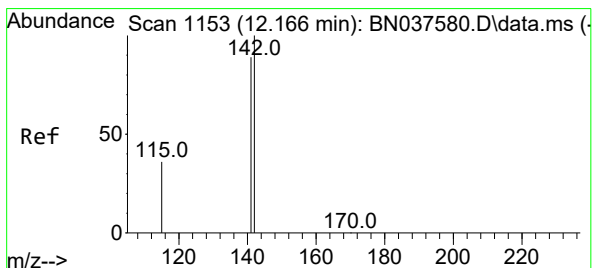
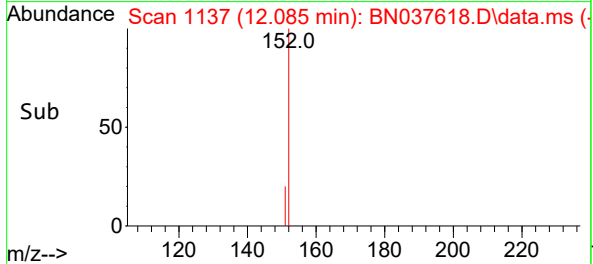
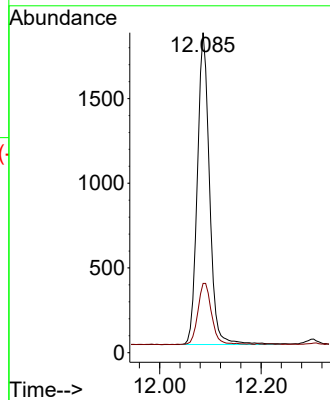
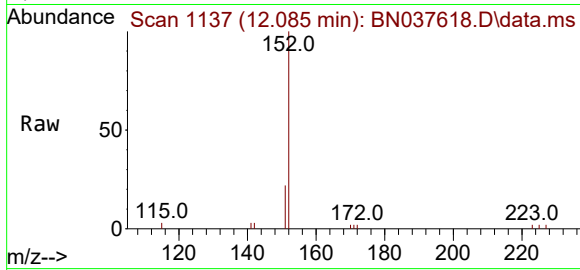




#11  
2-Methylnaphthalene-d10  
Concen: 0.366 ng  
RT: 12.085 min Scan# 1137  
Delta R.T. -0.005 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

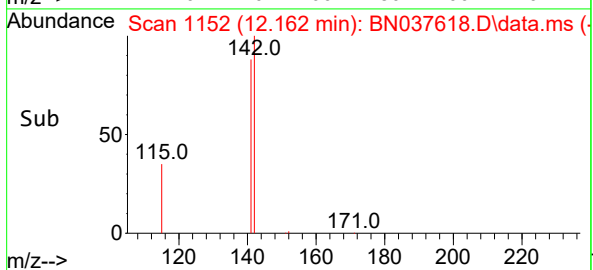
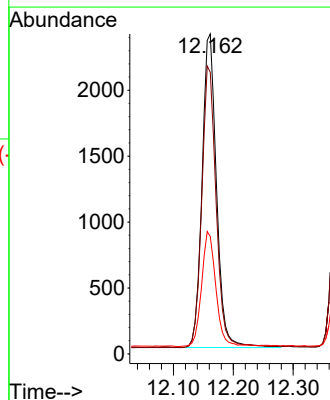
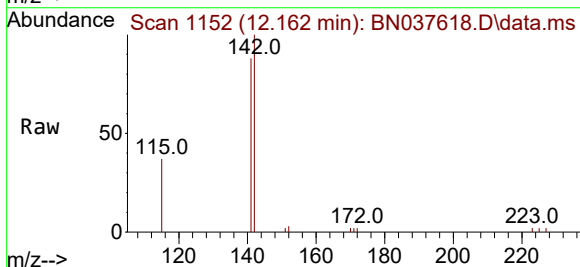
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

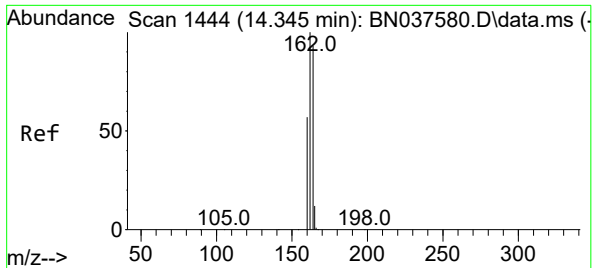
Tgt Ion:152 Resp: 3068  
Ion Ratio Lower Upper  
152 100  
151 22.2 17.3 25.9



#12  
2-Methylnaphthalene  
Concen: 0.386 ng  
RT: 12.162 min Scan# 1152  
Delta R.T. -0.005 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

Tgt Ion:142 Resp: 3979  
Ion Ratio Lower Upper  
142 100  
141 88.0 71.4 107.0  
115 36.7 30.2 45.4

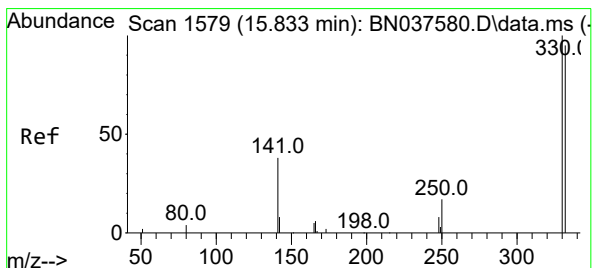
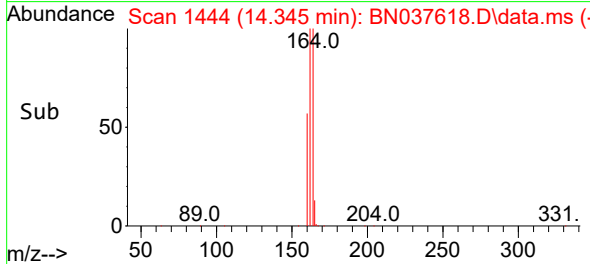
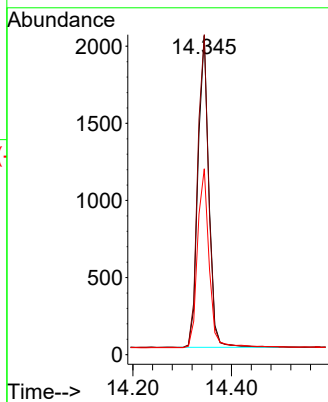
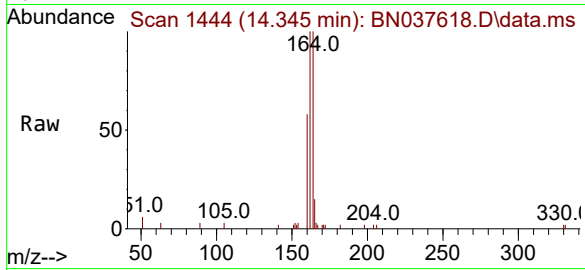




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

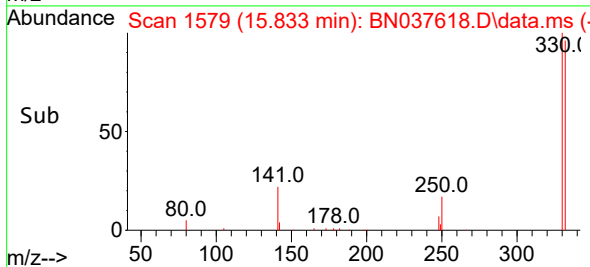
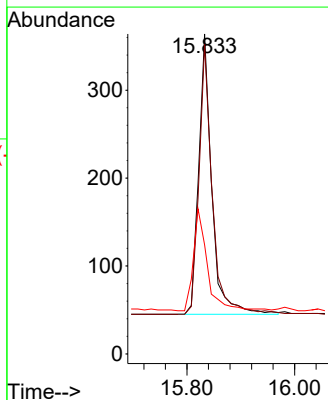
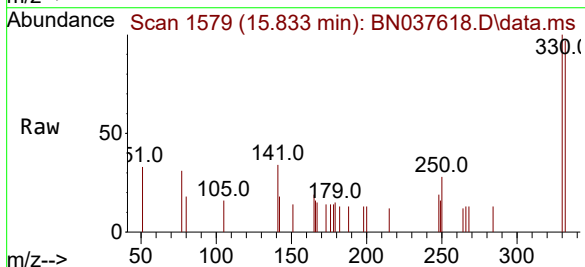
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

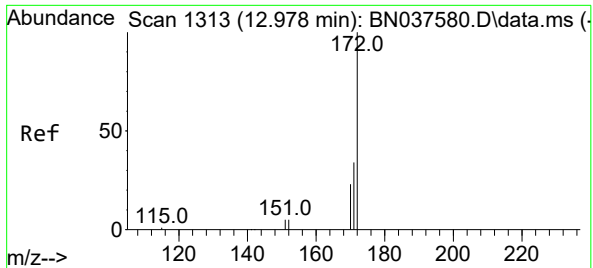
Tgt Ion:164 Resp: 3094  
Ion Ratio Lower Upper  
164 100  
162 100.3 85.5 128.3  
160 58.3 49.5 74.3



#14  
2,4,6-Tribromophenol  
Concen: 0.400 ng  
RT: 15.833 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

Tgt Ion:330 Resp: 541  
Ion Ratio Lower Upper  
330 100  
332 97.6 77.4 116.0  
141 39.0 30.9 46.3

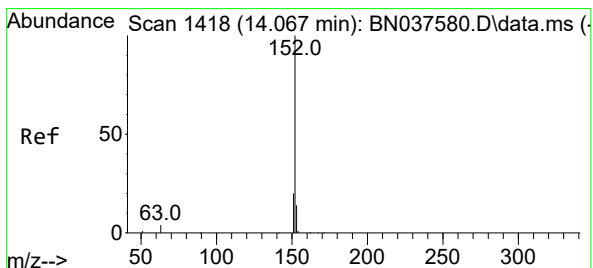
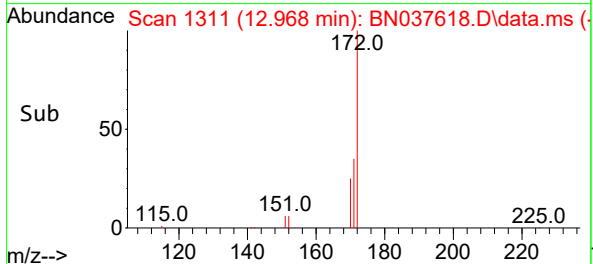
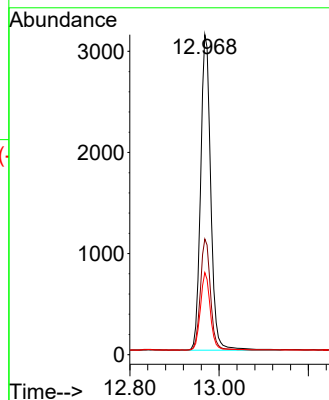
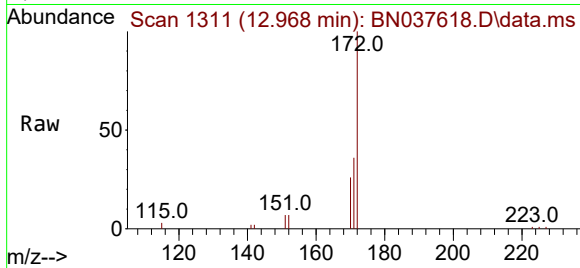




#15  
2-Fluorobiphenyl  
Concen: 0.388 ng  
RT: 12.968 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

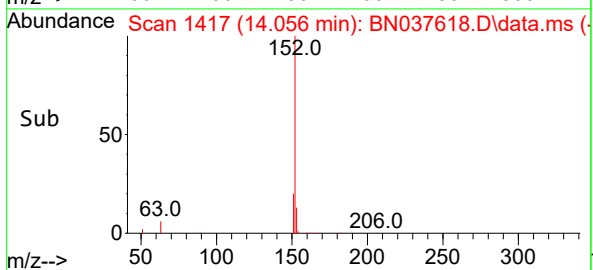
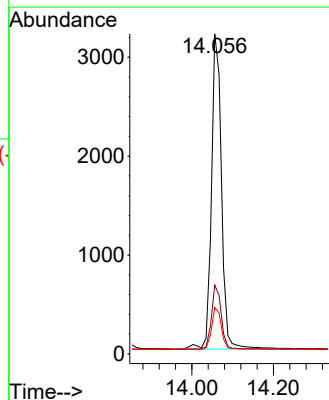
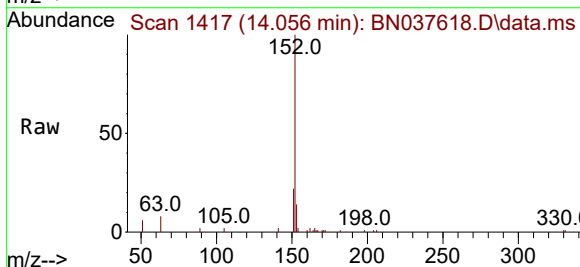
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

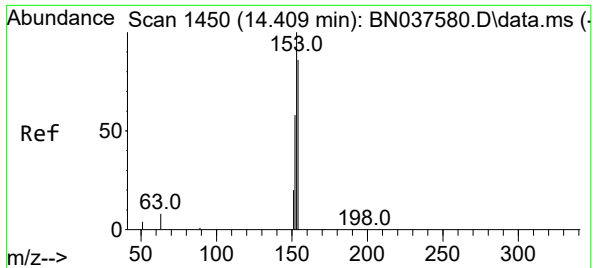
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 6948  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.1  | 28.2  | 42.4  |
| 170      | 25.7  | 19.2  | 28.8  |



#16  
Acenaphthylene  
Concen: 0.394 ng  
RT: 14.056 min Scan# 1417  
Delta R.T. -0.011 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 5458  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 19.6  | 16.1  | 24.1  |
| 153      | 13.1  | 10.7  | 16.1  |

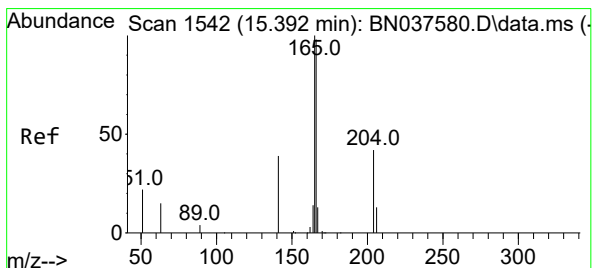
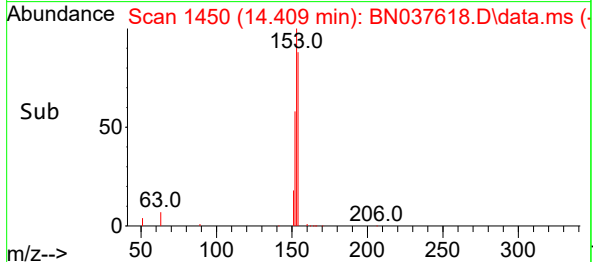
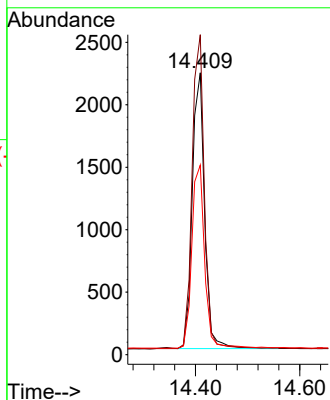
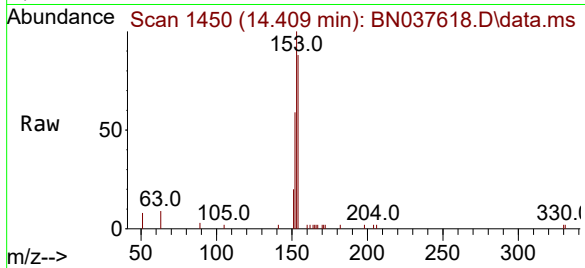




#17  
Acenaphthene  
Concen: 0.385 ng  
RT: 14.409 min Scan# 1450  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

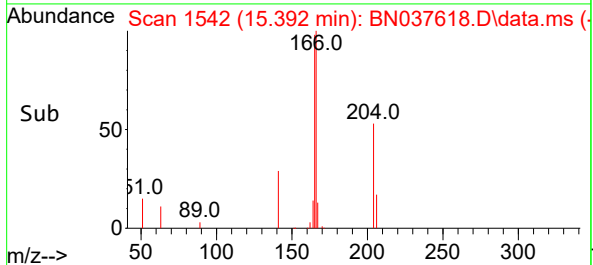
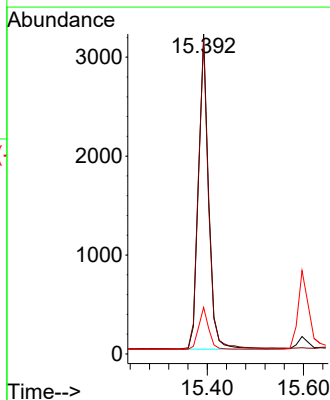
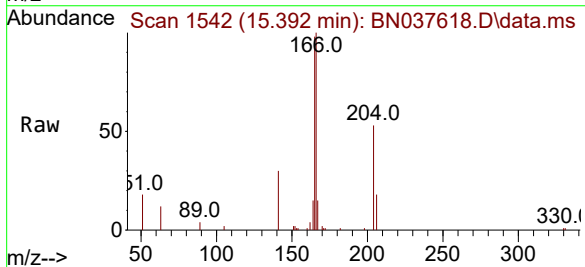
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

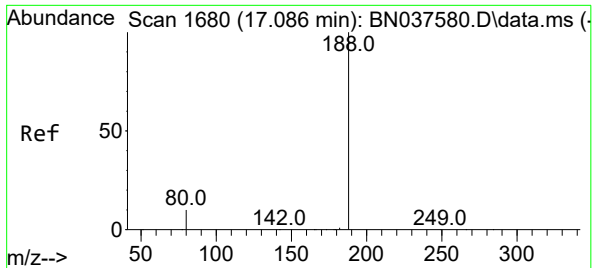
Tgt Ion:154 Resp: 3630  
Ion Ratio Lower Upper  
154 100  
153 113.3 90.6 135.8  
152 69.6 54.9 82.3



#18  
Fluorene  
Concen: 0.386 ng  
RT: 15.392 min Scan# 1542  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

Tgt Ion:166 Resp: 4767  
Ion Ratio Lower Upper  
166 100  
165 99.3 78.9 118.3  
167 13.3 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

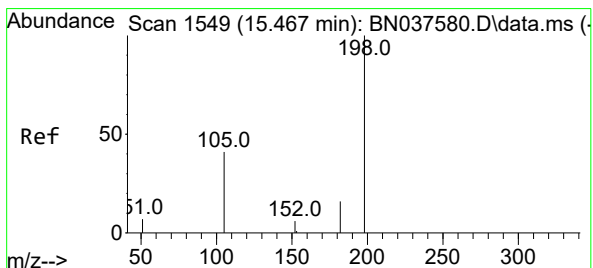
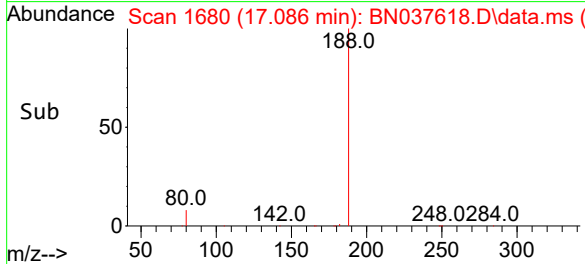
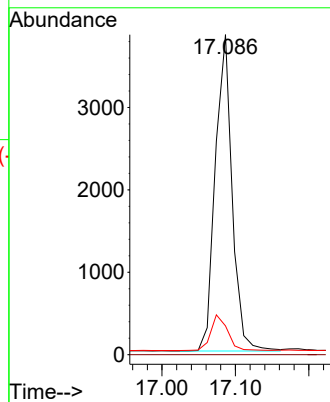
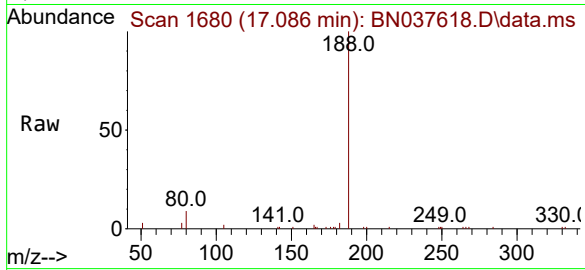
Tgt Ion:188 Resp: 6113

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 9.1 13.7#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.368 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

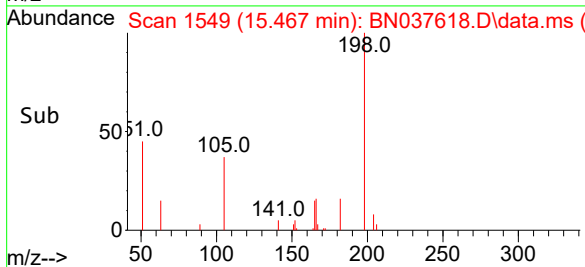
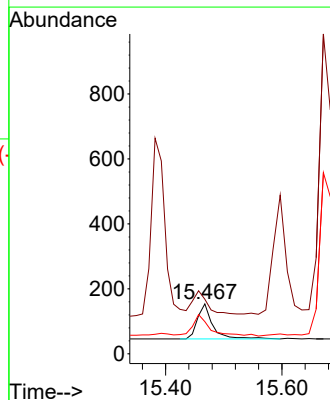
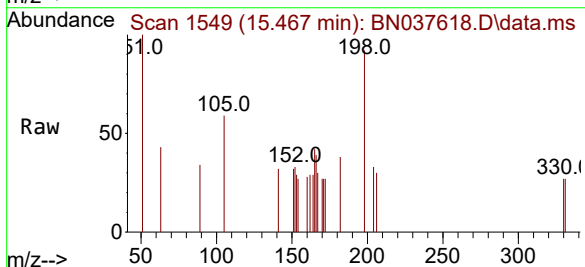
Tgt Ion:198 Resp: 208

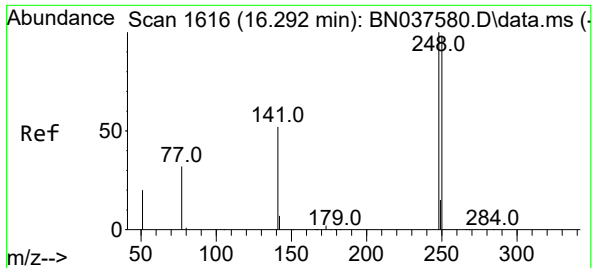
Ion Ratio Lower Upper

198 100

51 109.1 81.0 121.6

105 64.3 52.5 78.7

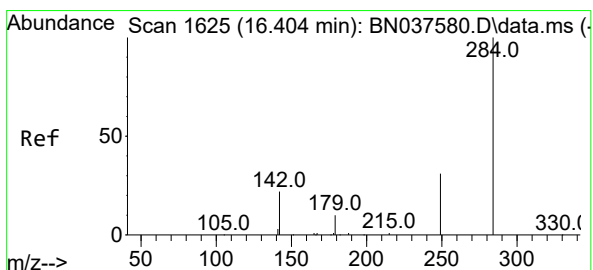
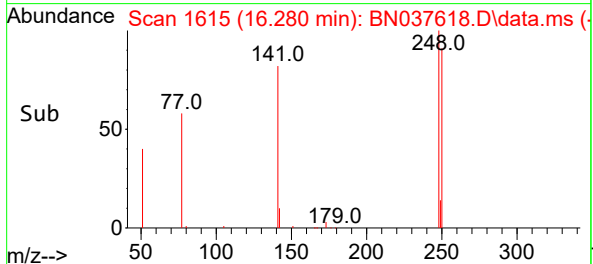
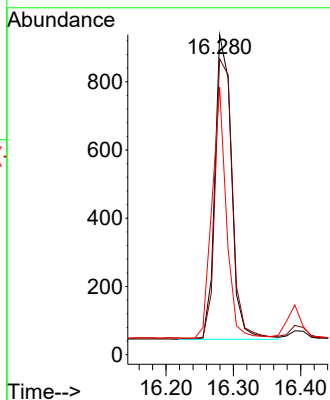
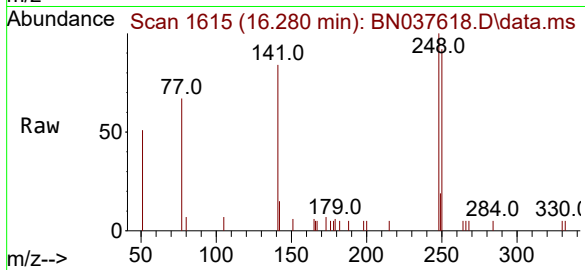




#21  
4-Bromophenyl-phenylether  
Concen: 0.396 ng  
RT: 16.280 min Scan# 1615  
Delta R.T. -0.012 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

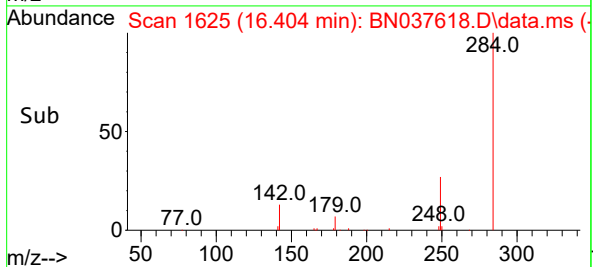
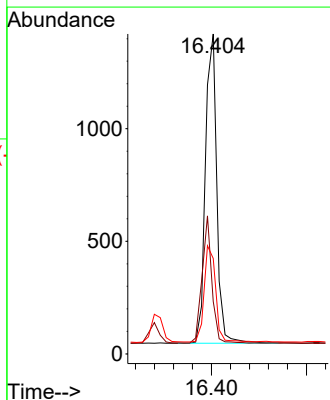
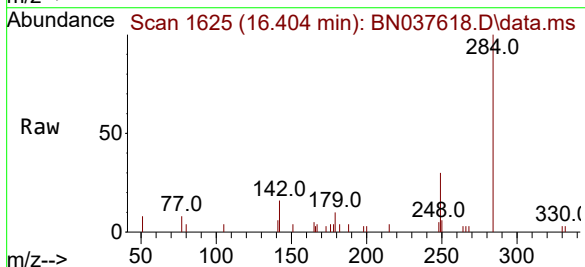
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:248 Resp: 1521  
Ion Ratio Lower Upper  
248 100  
250 92.4 78.6 118.0  
141 83.6 43.7 65.5#

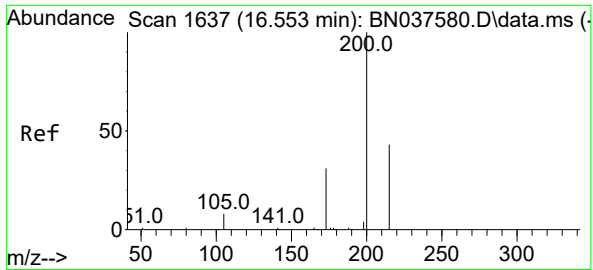


#22  
Hexachlorobenzene  
Concen: 0.420 ng  
RT: 16.404 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

Tgt Ion:284 Resp: 2290  
Ion Ratio Lower Upper  
284 100  
142 35.7 29.8 44.6  
249 31.4 26.0 39.0



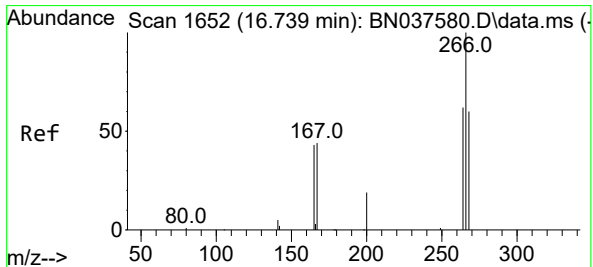
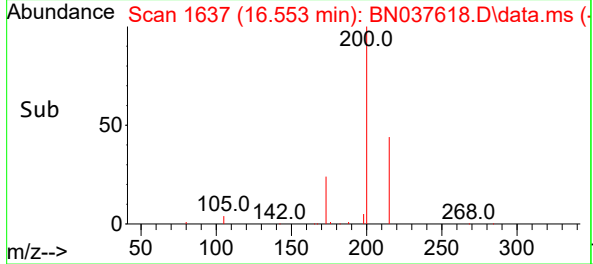
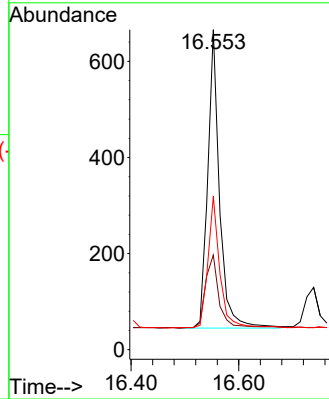
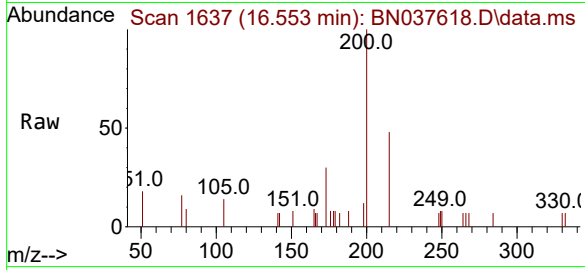




#23  
Atrazine  
Concen: 0.433 ng  
RT: 16.553 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

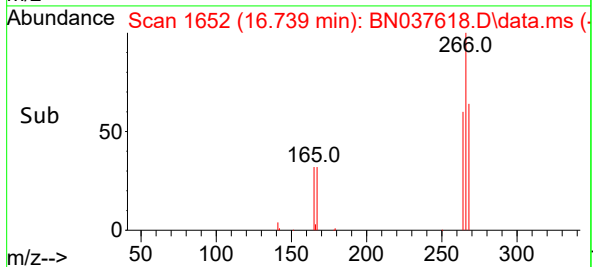
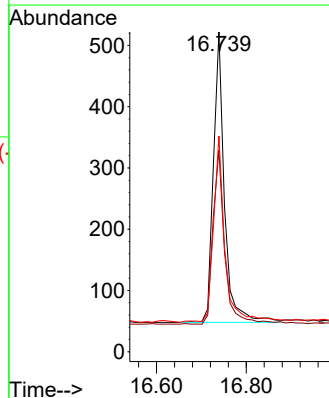
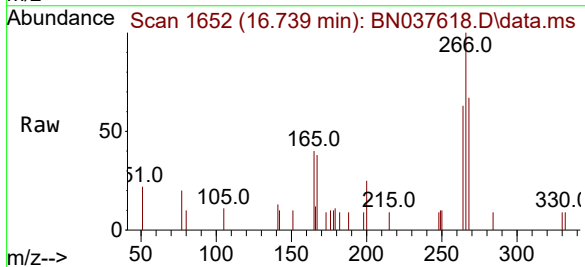
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

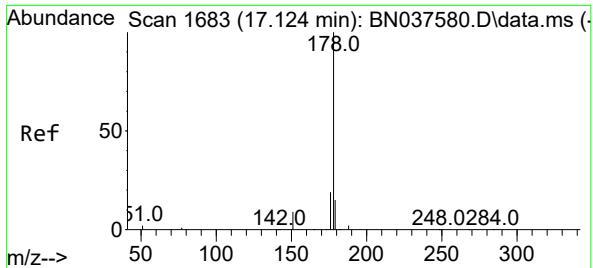
Tgt Ion:200 Resp: 941  
Ion Ratio Lower Upper  
200 100  
173 29.6 31.0 46.4#  
215 47.9 39.4 59.0



#24  
Pentachlorophenol  
Concen: 0.422 ng  
RT: 16.739 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

Tgt Ion:266 Resp: 807  
Ion Ratio Lower Upper  
266 100  
264 63.8 49.6 74.4  
268 67.0 49.2 73.8

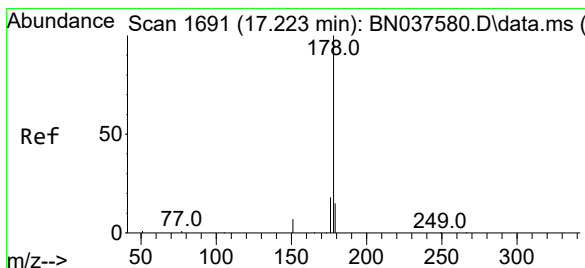
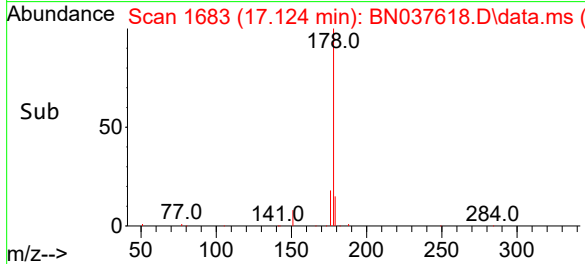
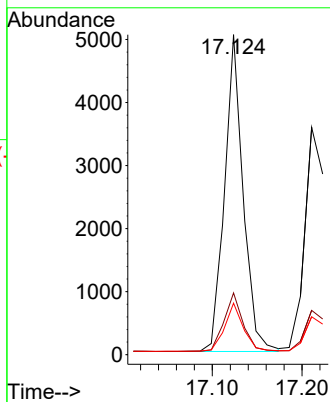
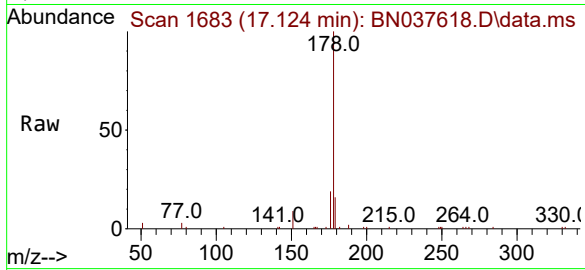




#25  
Phenanthrene  
Concen: 0.389 ng  
RT: 17.124 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

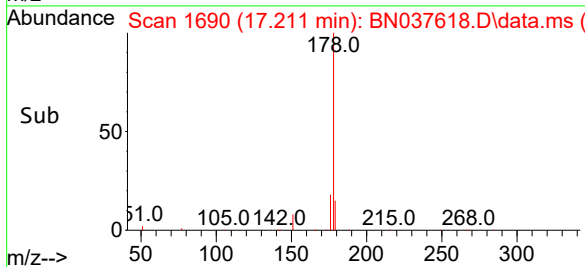
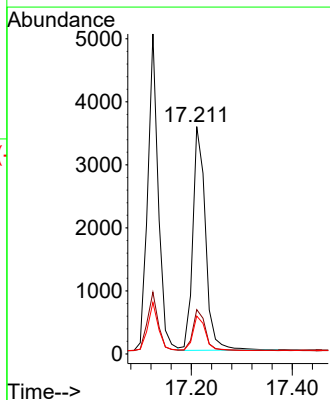
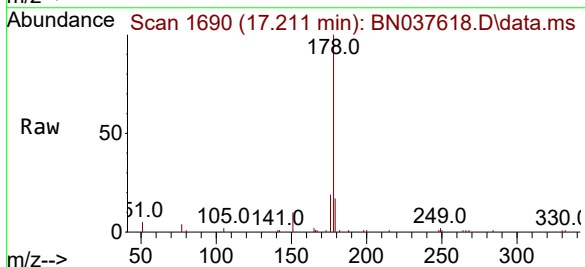
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

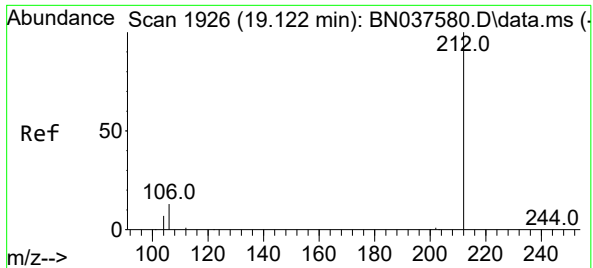
Tgt Ion:178 Resp: 7226  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.0 22.6  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.377 ng  
RT: 17.211 min Scan# 1690  
Delta R.T. -0.012 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

Tgt Ion:178 Resp: 6209  
Ion Ratio Lower Upper  
178 100  
176 18.4 14.7 22.1  
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.361 ng

RT: 19.113 min Scan# 1924

Delta R.T. -0.009 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

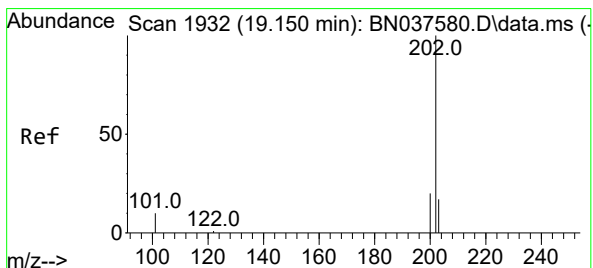
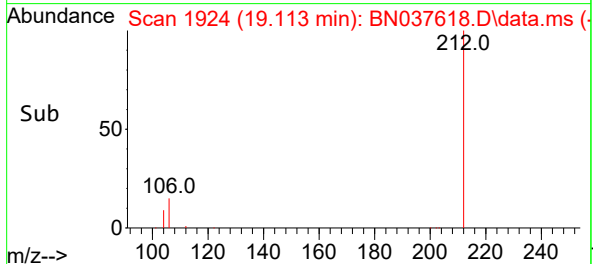
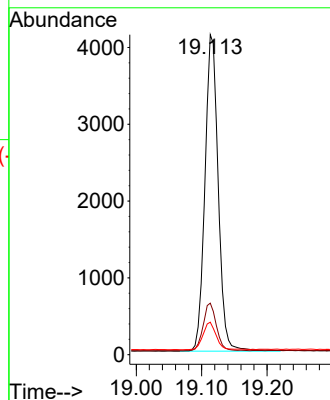
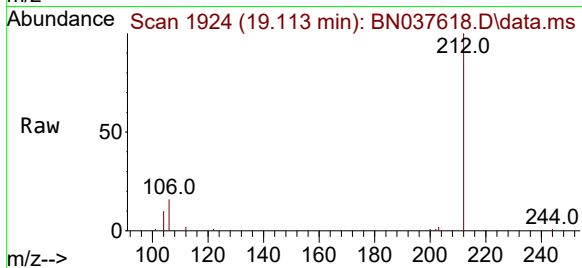
Tgt Ion:212 Resp: 5813

Ion Ratio Lower Upper

212 100

106 15.1 11.5 17.3

104 8.5 6.6 9.8



#28

Fluoranthene

Concen: 0.376 ng

RT: 19.146 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

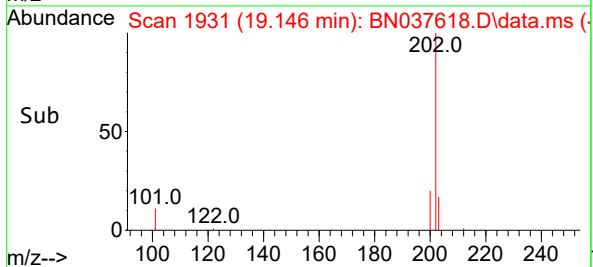
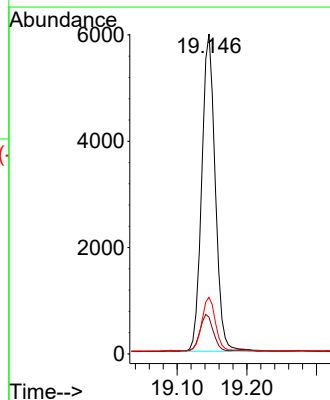
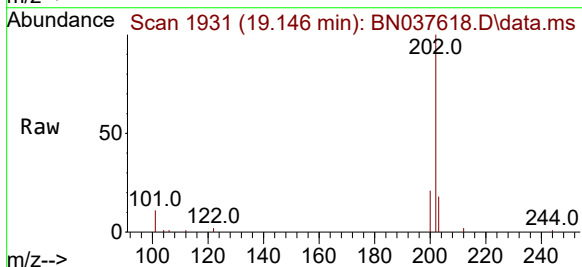
Tgt Ion:202 Resp: 8030

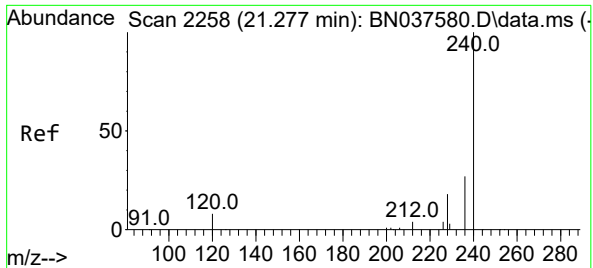
Ion Ratio Lower Upper

202 100

101 11.5 9.0 13.6

203 17.0 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

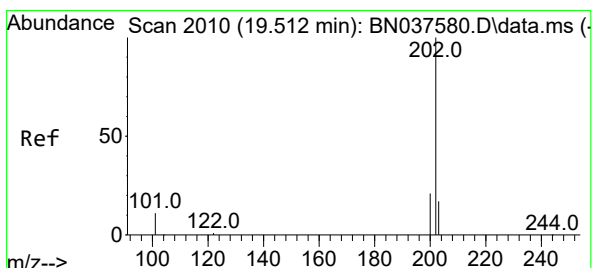
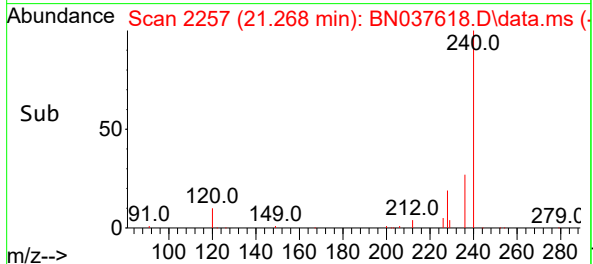
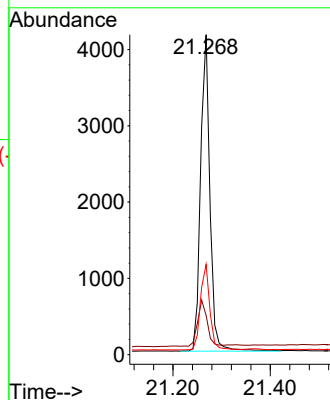
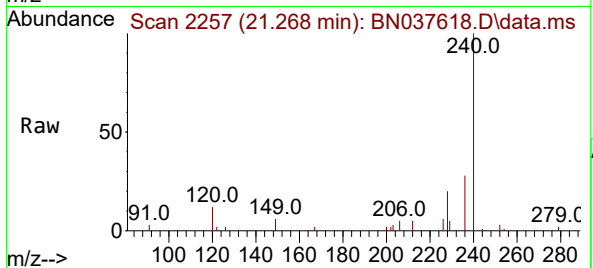
Tgt Ion:240 Resp: 5494

Ion Ratio Lower Upper

240 100

120 12.2 8.9 13.3

236 28.2 22.6 33.8



#30

Pyrene

Concen: 0.404 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.004 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

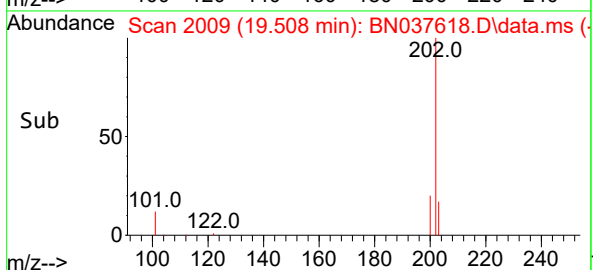
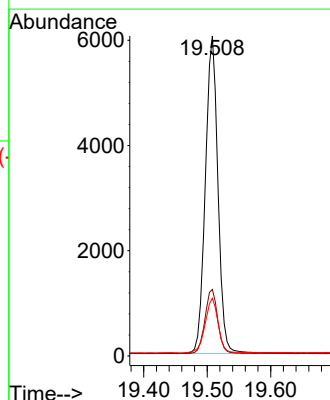
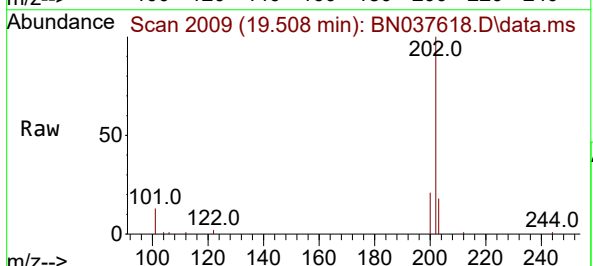
Tgt Ion:202 Resp: 8292

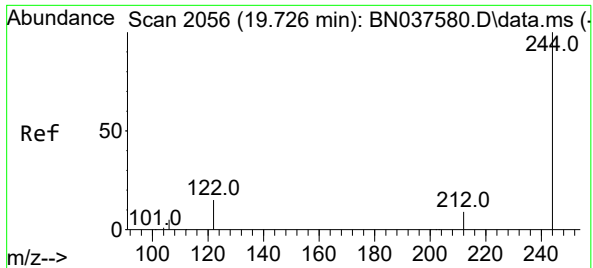
Ion Ratio Lower Upper

202 100

200 20.4 16.6 25.0

203 17.9 14.3 21.5

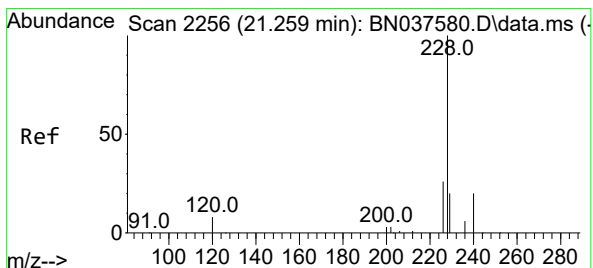
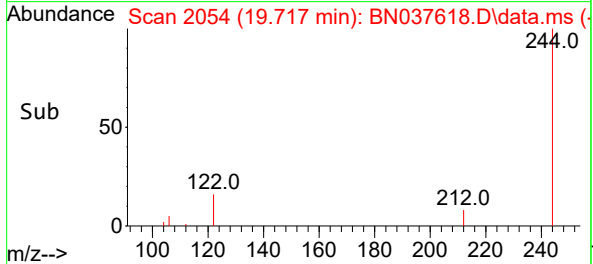
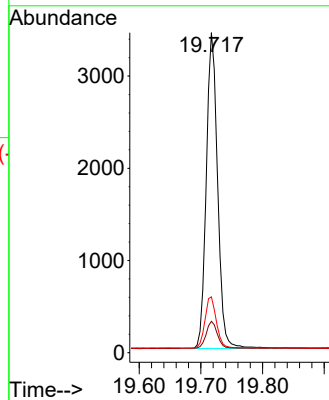
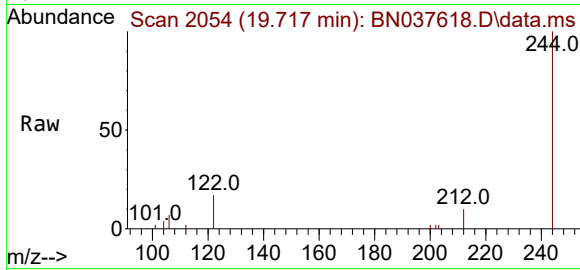




#31  
Terphenyl-d14  
Concen: 0.385 ng  
RT: 19.717 min Scan# 2054  
Delta R.T. -0.009 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

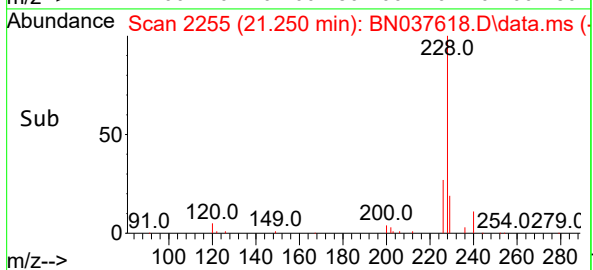
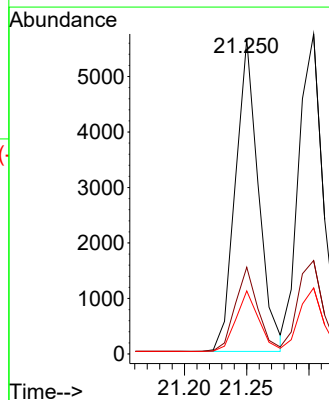
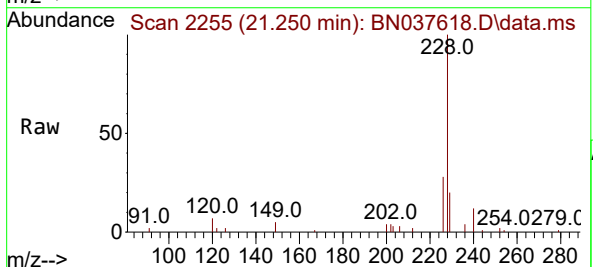
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

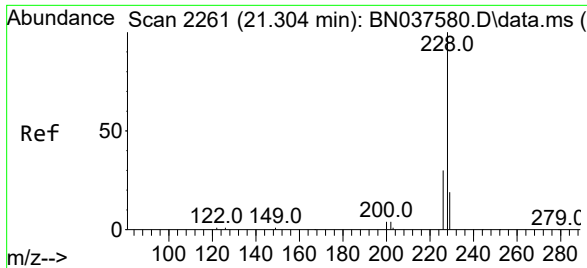
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.8   | 8.2   | 12.2  |
| 122     | 17.5  | 13.2  | 19.8  |



#32  
Benzo(a)anthracene  
Concen: 0.393 ng  
RT: 21.250 min Scan# 2255  
Delta R.T. -0.009 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 27.5  | 21.5  | 32.3  |
| 229     | 20.0  | 16.5  | 24.7  |

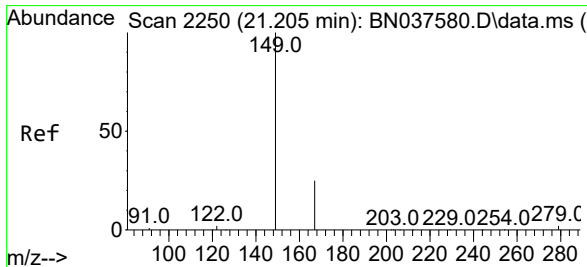
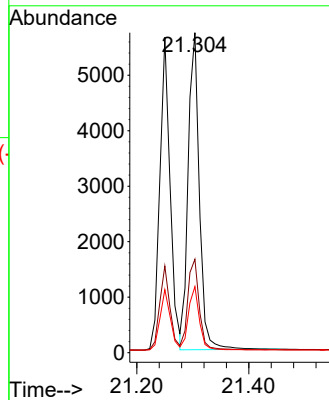
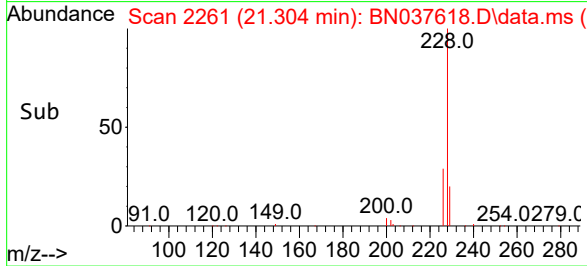
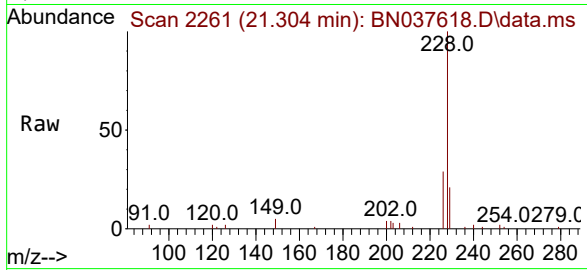




#33  
Chrysene  
Concen: 0.389 ng  
RT: 21.304 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

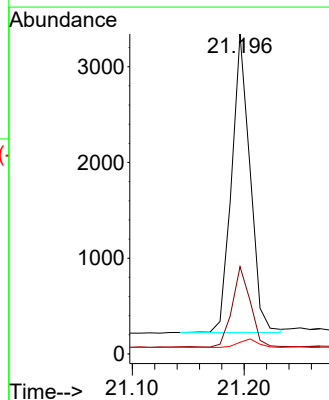
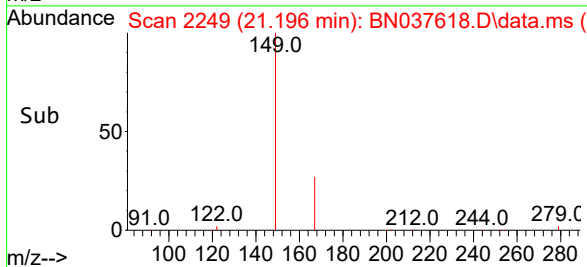
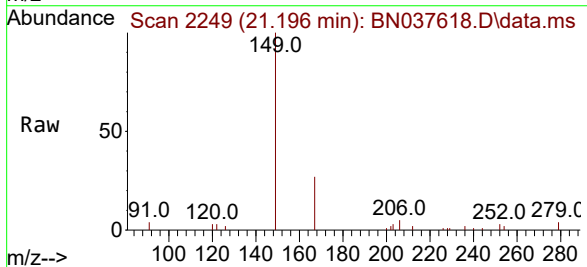
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

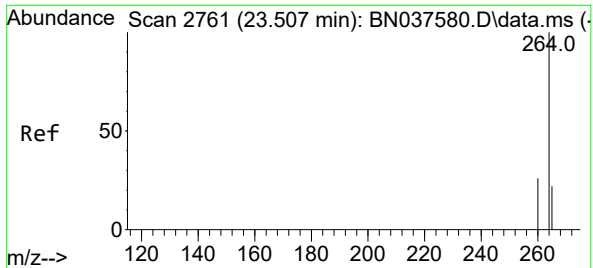
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.2  | 24.9  | 37.3  |
| 229     | 20.7  | 15.8  | 23.8  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.471 ng  
RT: 21.196 min Scan# 2249  
Delta R.T. -0.009 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.3  | 20.5  | 30.7  |
| 279     | 3.0   | 2.6   | 4.0   |

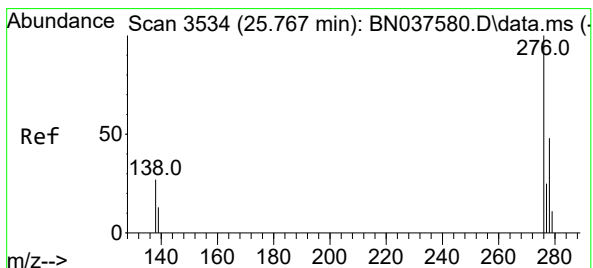
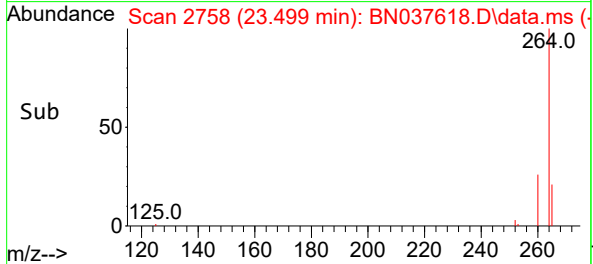
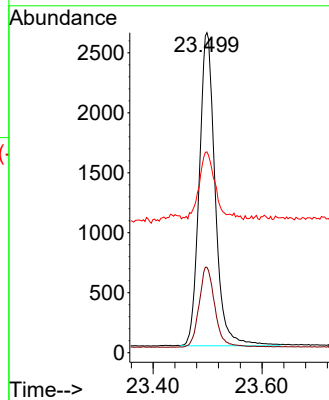
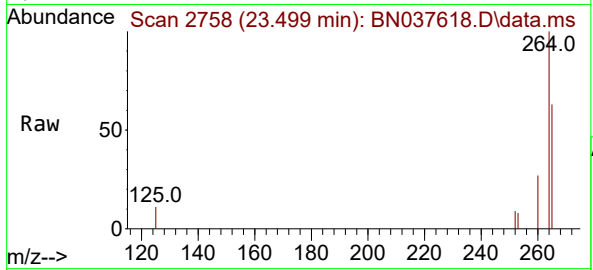




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.499 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

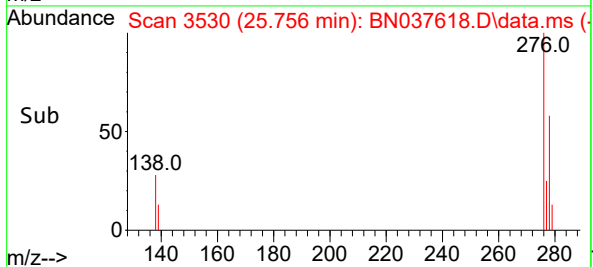
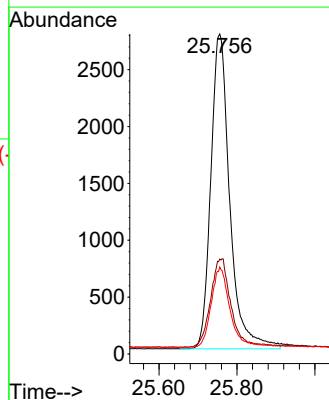
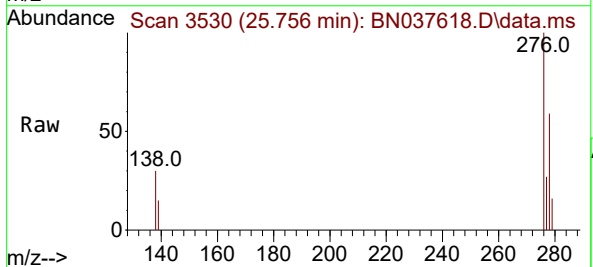
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

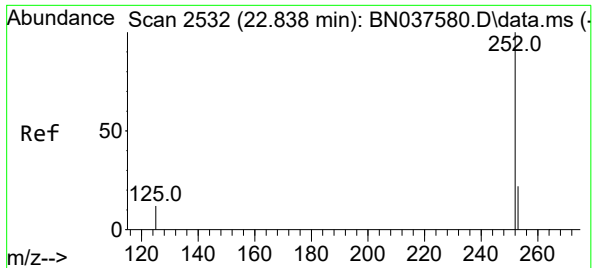
Tgt Ion:264 Resp: 5322  
Ion Ratio Lower Upper  
264 100  
260 26.7 21.6 32.4  
265 62.7 48.2 72.4



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.417 ng  
RT: 25.756 min Scan# 3530  
Delta R.T. -0.012 min  
Lab File: BN037618.D  
Acq: 20 Aug 2025 04:14

Tgt Ion:276 Resp: 9347  
Ion Ratio Lower Upper  
276 100  
138 30.1 23.3 34.9  
277 25.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.374 ng

RT: 22.829 min Scan# 2529

Delta R.T. -0.009 min

Lab File: BN037618.D

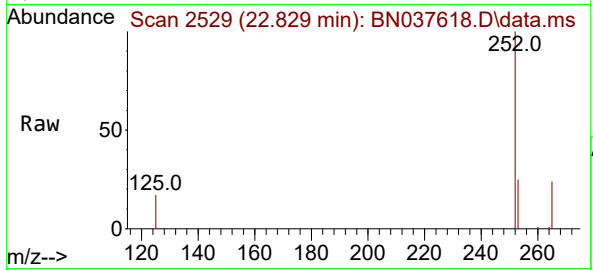
Acq: 20 Aug 2025 04:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



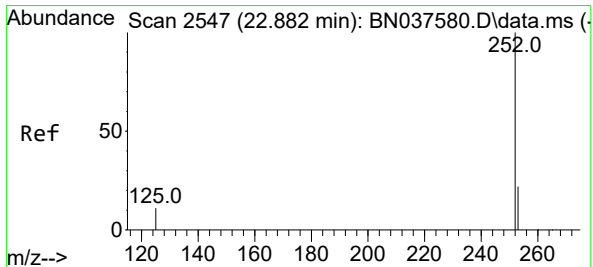
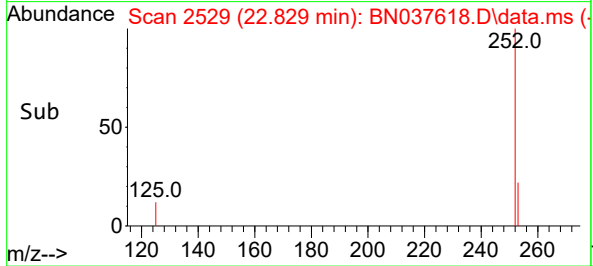
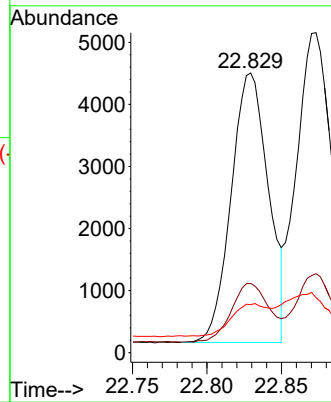
Tgt Ion:252 Resp: 7542

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

|     |     |  |  |
|-----|-----|--|--|
| 252 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 253 | 24.7 | 20.0 | 30.0 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 125 | 17.1 | 13.8 | 20.6 |
|-----|------|------|------|



#38

Benzo(k)fluoranthene

Concen: 0.391 ng

RT: 22.873 min Scan# 2544

Delta R.T. -0.009 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14

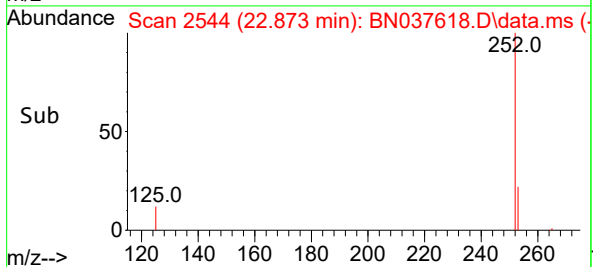
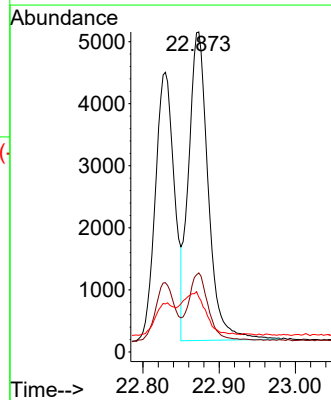
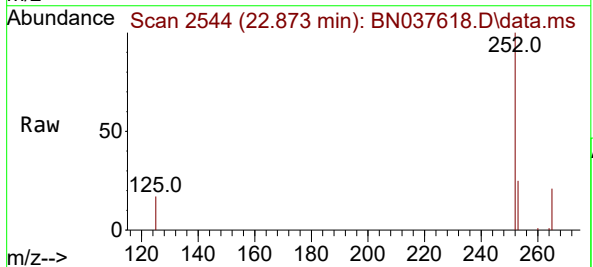
Tgt Ion:252 Resp: 8901

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
|-----|-------|-------|-------|

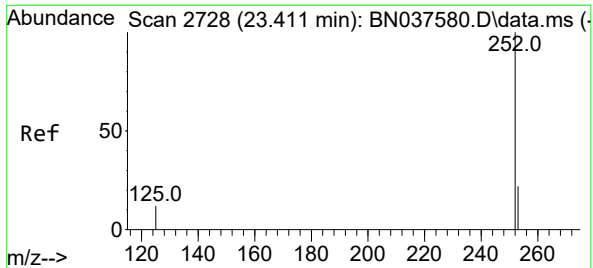
|     |     |  |  |
|-----|-----|--|--|
| 252 | 100 |  |  |
|-----|-----|--|--|

|     |      |      |      |
|-----|------|------|------|
| 253 | 24.7 | 19.9 | 29.9 |
|-----|------|------|------|

|     |      |      |      |
|-----|------|------|------|
| 125 | 17.1 | 15.0 | 22.6 |
|-----|------|------|------|







#39

Benzo(a)pyrene

Concen: 0.379 ng

RT: 23.399 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037618.D

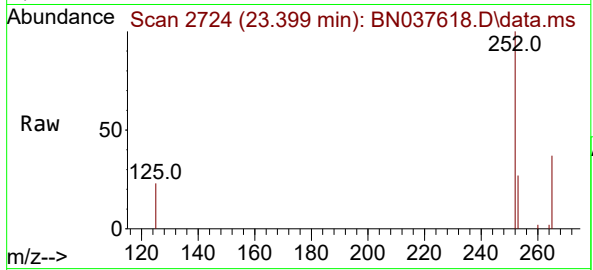
Acq: 20 Aug 2025 04:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



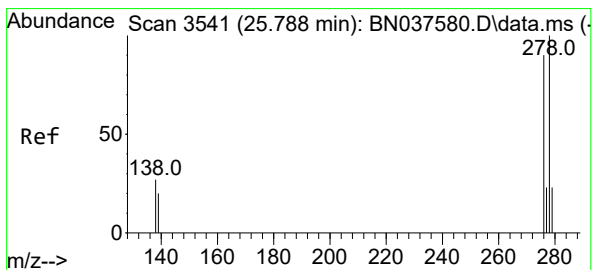
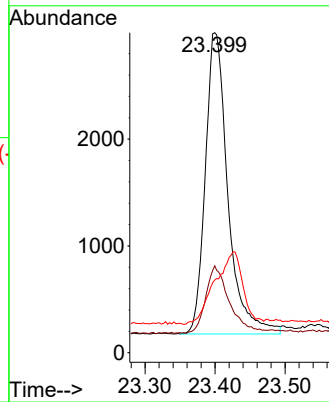
Tgt Ion:252 Resp: 6340

Ion Ratio Lower Upper

252 100

253 27.2 21.6 32.4

125 22.7 16.8 25.2



#40

Dibenzo(a,h)anthracene

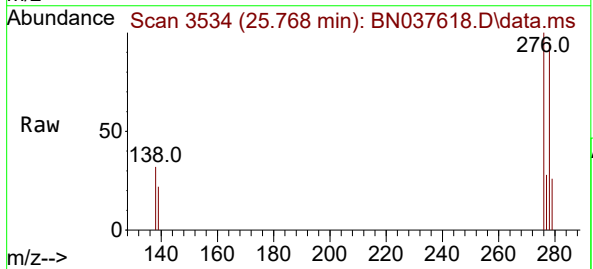
Concen: 0.409 ng

RT: 25.768 min Scan# 3534

Delta R.T. -0.020 min

Lab File: BN037618.D

Acq: 20 Aug 2025 04:14



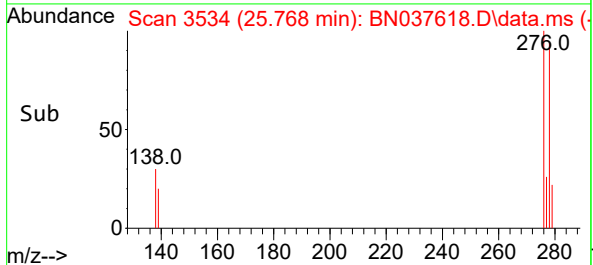
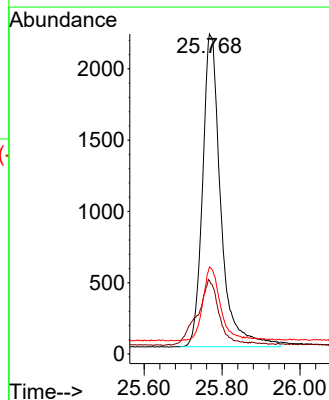
Tgt Ion:278 Resp: 7121

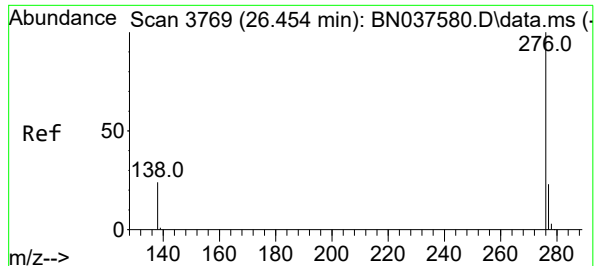
Ion Ratio Lower Upper

278 100

139 22.9 18.3 27.5

279 27.2 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.397 ng

RT: 26.440 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN037618.D

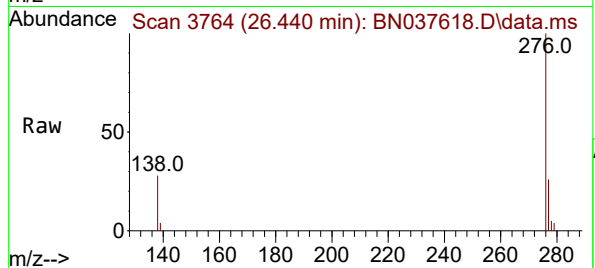
Acq: 20 Aug 2025 04:14

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



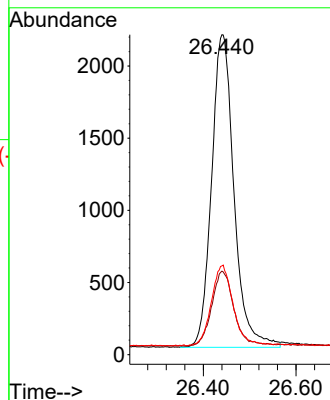
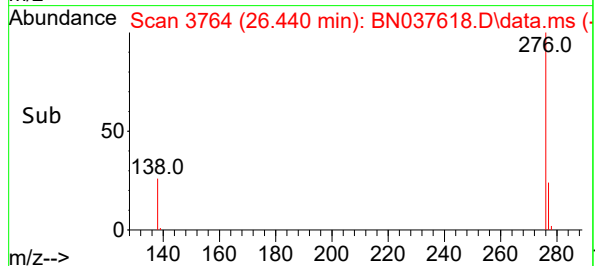
Tgt Ion:276 Resp: 7272

Ion Ratio Lower Upper

276 100

277 26.1 21.0 31.4

138 27.7 21.7 32.5



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037618.D  
 Acq On : 20 Aug 2025 04:14  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Aug 20 06:13:19 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | AvgRF | CCRF  | %Dev  | Area% | Dev(min) |
|---------|----------------------------|-------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 1.000 | 1.000 | 0.0   | 125   | 0.00     |
| 2       | 1,4-Dioxane                | 0.383 | 0.380 | 0.8   | 120   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.489 | 0.477 | 2.5   | 122   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.907 | 0.875 | 3.5   | 123   | 0.00     |
| 5 S     | Phenol-d6                  | 1.091 | 1.045 | 4.2   | 125   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.983 | 0.962 | 2.1   | 123   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 120   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.282 | 0.281 | 0.4   | 129   | 0.00     |
| 9       | Naphthalene                | 1.065 | 1.067 | -0.2  | 123   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.260 | 0.274 | -5.4  | 126   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.544 | 0.498 | 8.5   | 118   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.668 | 0.645 | 3.4   | 122   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 122   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.175 | 0.175 | 0.0   | 137   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 2.313 | 2.246 | 2.9   | 119   | 0.00     |
| 16      | Acenaphthylene             | 1.793 | 1.764 | 1.6   | 126   | -0.01    |
| 17      | Acenaphthene               | 1.220 | 1.173 | 3.9   | 122   | 0.00     |
| 18      | Fluorene                   | 1.596 | 1.541 | 3.4   | 123   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 121   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.053 | 0.034 | 35.8# | 90    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.251 | 0.249 | 0.8   | 129   | -0.01    |
| 22      | Hexachlorobenzene          | 0.356 | 0.375 | -5.3  | 128   | 0.00     |
| 23      | Atrazine                   | 0.142 | 0.154 | -8.5  | 144   | 0.00     |
| 24      | Pentachlorophenol          | 0.125 | 0.132 | -5.6  | 141   | 0.00     |
| 25      | Phenanthrene               | 1.216 | 1.182 | 2.8   | 123   | 0.00     |
| 26      | Anthracene                 | 1.077 | 1.016 | 5.7   | 124   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 1.052 | 0.951 | 9.6   | 121   | 0.00     |
| 28      | Fluoranthene               | 1.397 | 1.314 | 5.9   | 123   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 127   | 0.00     |
| 30      | Pyrene                     | 1.495 | 1.509 | -0.9  | 131   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.823 | 0.793 | 3.6   | 127   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.336 | 1.314 | 1.6   | 132   | 0.00     |
| 33      | Chrysene                   | 1.489 | 1.447 | 2.8   | 129   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.551 | 0.649 | -17.8 | 158#  | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 127   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.686 | 1.756 | -4.2  | 138   | -0.01    |
| 37      | Benzo(b)fluoranthene       | 1.516 | 1.417 | 6.5   | 135   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.710 | 1.672 | 2.2   | 129   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.257 | 1.191 | 5.3   | 132   | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 1.308 | 1.338 | -2.3  | 139   | -0.02    |
| 41      | Benzo(g,h,i)perylene       | 1.378 | 1.366 | 0.9   | 138   | -0.01    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037618.D  
 Acq On : 20 Aug 2025 04:14  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 19 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Aug 20 06:13:19 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.50min  
 Max. RRF Dev : 25% Max. Rel. Area : 150%

|         | Compound                   | Amount | Calc. | %Dev  | Area% | Dev(min) |
|---------|----------------------------|--------|-------|-------|-------|----------|
| 1 I     | 1,4-Dichlorobenzene-d4     | 0.400  | 0.400 | 0.0   | 125   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.397 | 0.8   | 120   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.390 | 2.5   | 122   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.386 | 3.5   | 123   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.383 | 4.3   | 125   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.391 | 2.3   | 123   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 120   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.399 | 0.3   | 129   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.401 | -0.3  | 123   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.422 | -5.5  | 126   | -0.01    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.366 | 8.5   | 118   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.386 | 3.5   | 122   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 122   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.400 | 0.0   | 137   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.388 | 3.0   | 119   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.394 | 1.5   | 126   | -0.01    |
| 17      | Acenaphthene               | 0.400  | 0.385 | 3.8   | 122   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.386 | 3.5   | 123   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 121   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.368 | 8.0   | 90    | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.396 | 1.0   | 129   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.420 | -5.0  | 128   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.433 | -8.2  | 144   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.422 | -5.5  | 141   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.389 | 2.8   | 123   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.377 | 5.8   | 124   | -0.01    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.361 | 9.8   | 121   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.376 | 6.0   | 123   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 127   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.404 | -1.0  | 131   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.385 | 3.8   | 127   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.393 | 1.8   | 132   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.389 | 2.8   | 129   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.471 | -17.7 | 158   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 127   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.417 | -4.2  | 138   | -0.01    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.374 | 6.5   | 135   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.391 | 2.3   | 129   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.379 | 5.3   | 132   | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.409 | -2.2  | 139   | -0.02    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.397 | 0.8   | 138   | -0.01    |

(#) = Out of Range

SPCC's out = 0 CCC's out = 0



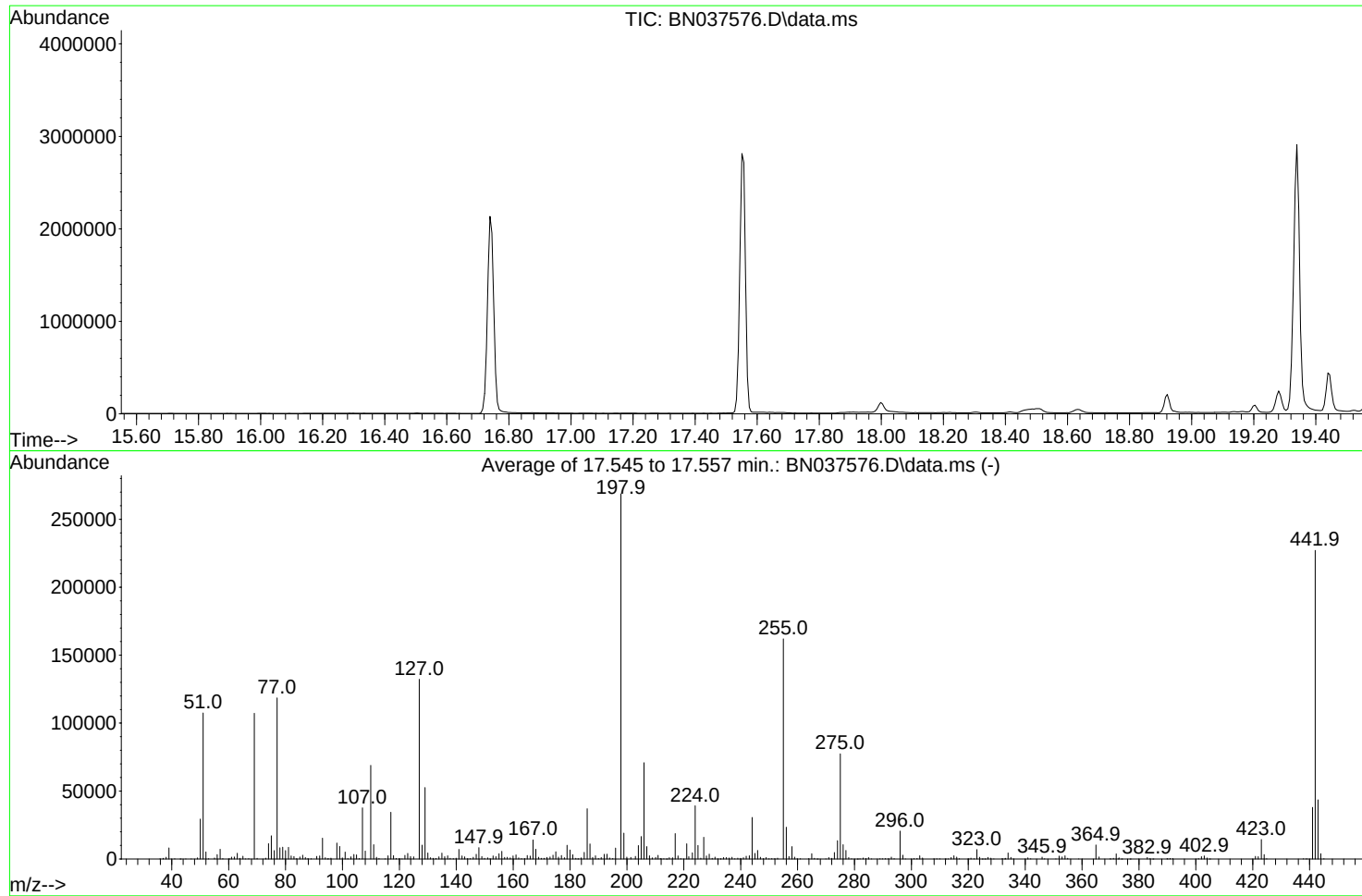
# QC SAMPLE DATA

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
Data File : BN037576.D  
Acq On : 12 Aug 2025 15:05  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Aug 13 05:00:58 2025



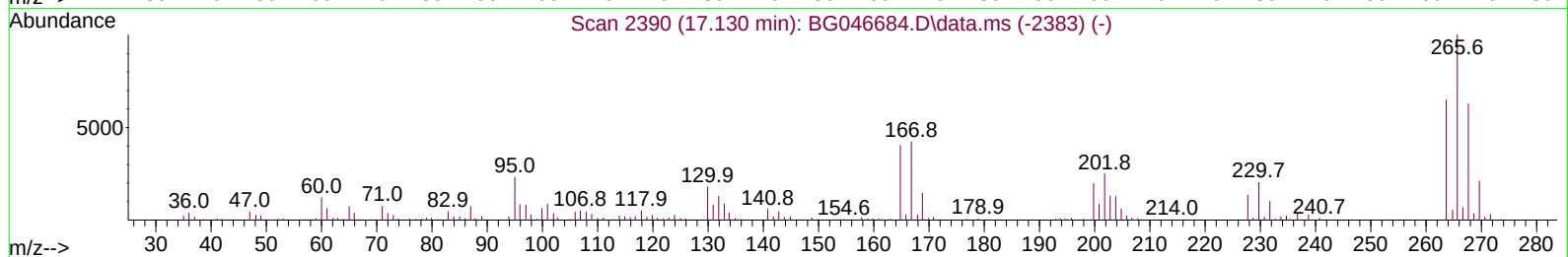
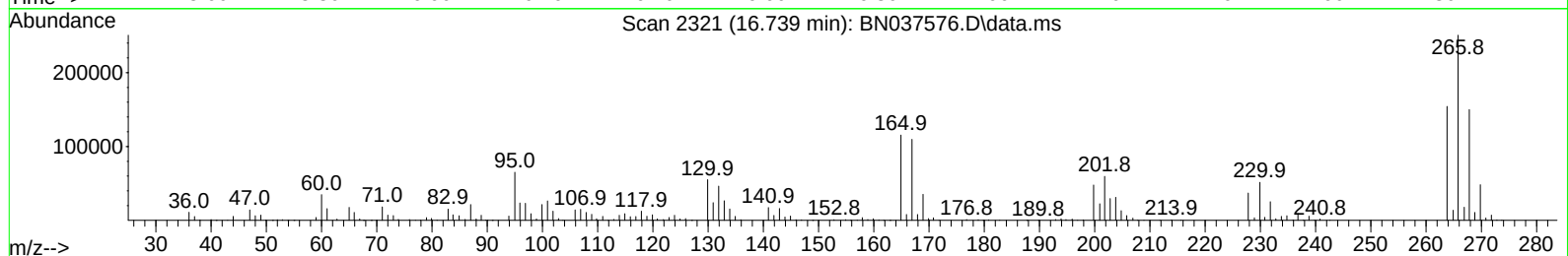
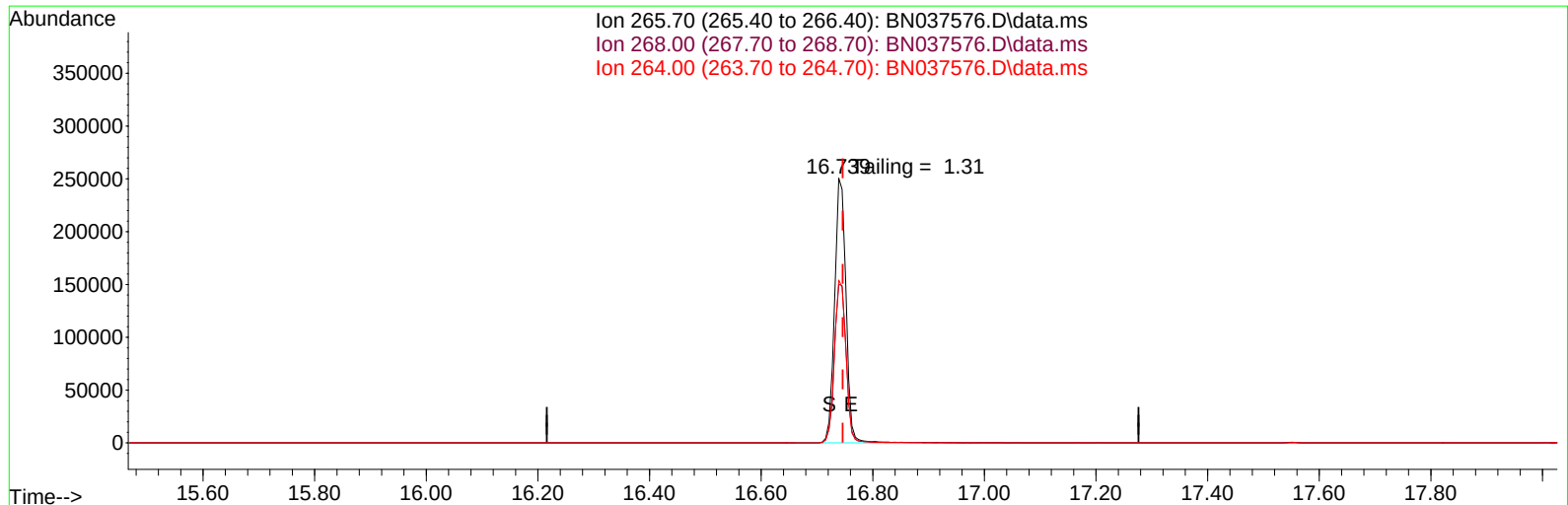
AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2451

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 68          | 69           | 0.00         | 2            | 0.0       | 0       | PASS             |
| 69          | 69           | 100          | 100          | 100.0     | 107227  | PASS             |
| 70          | 69           | 0.00         | 2            | 0.6       | 598     | PASS             |
| 197         | 198          | 0.00         | 2            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 268651  | PASS             |
| 199         | 198          | 5            | 9            | 7.1       | 19058   | PASS             |
| 365         | 198          | 1            | 100          | 3.9       | 10363   | PASS             |
| 441         | 443          | 0.01         | 150          | 87.2      | 38019   | PASS             |
| 442         | 442          | 100          | 100          | 100.0     | 227139  | PASS             |
| 443         | 442          | 15           | 24           | 19.2      | 43589   | PASS             |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
Data File : BN037576.D  
Acq On : 12 Aug 2025 15:05  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Aug 13 06:28:28 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 06 01:49:15 2025  
Response via : Initial Calibration



TIC: BN037576.D\data.ms

**(70) Pentachlorophenol (C)**

16.739min (-0.007) 29662.60 ng

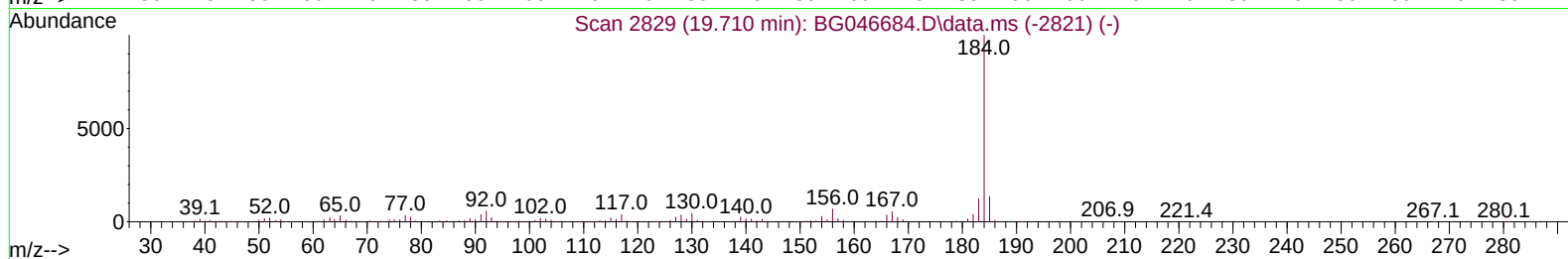
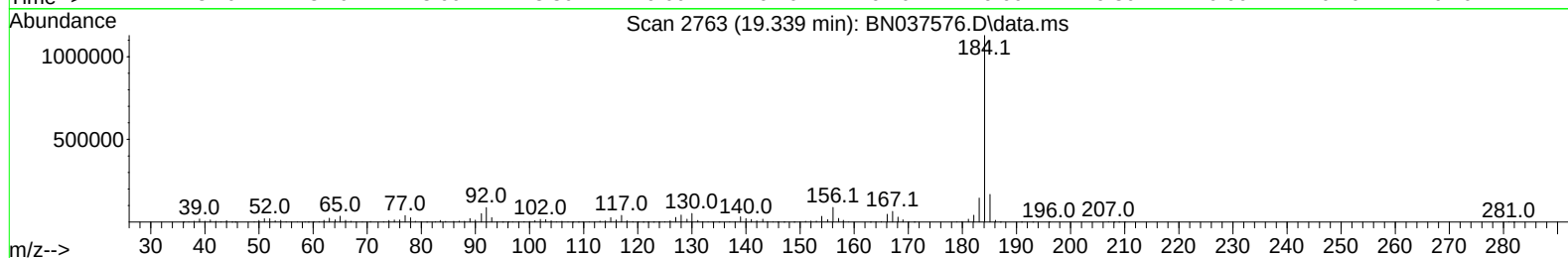
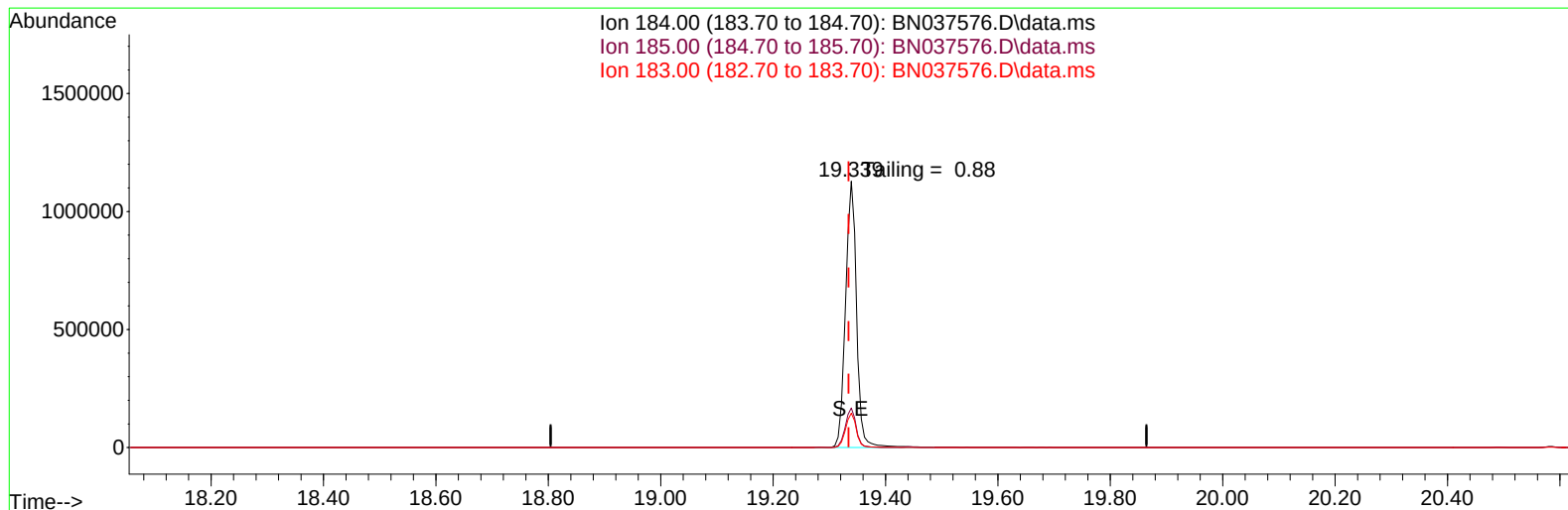
response 357790

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 59.87  |
| 264.00 | 61.60  | 61.53  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081225\  
Data File : BN037576.D  
Acq On : 12 Aug 2025 15:05  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Aug 13 06:28:28 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 06 01:49:15 2025  
Response via : Initial Calibration



TIC: BN037576.D\data.ms

**(77) Benzidine**

**19.339min (+ 0.005) 0.00 ng**

**response 1542567**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.86  |
| 183.00 | 13.20  | 12.90  |
| 0.00   | 0.00   | 0.00   |



Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

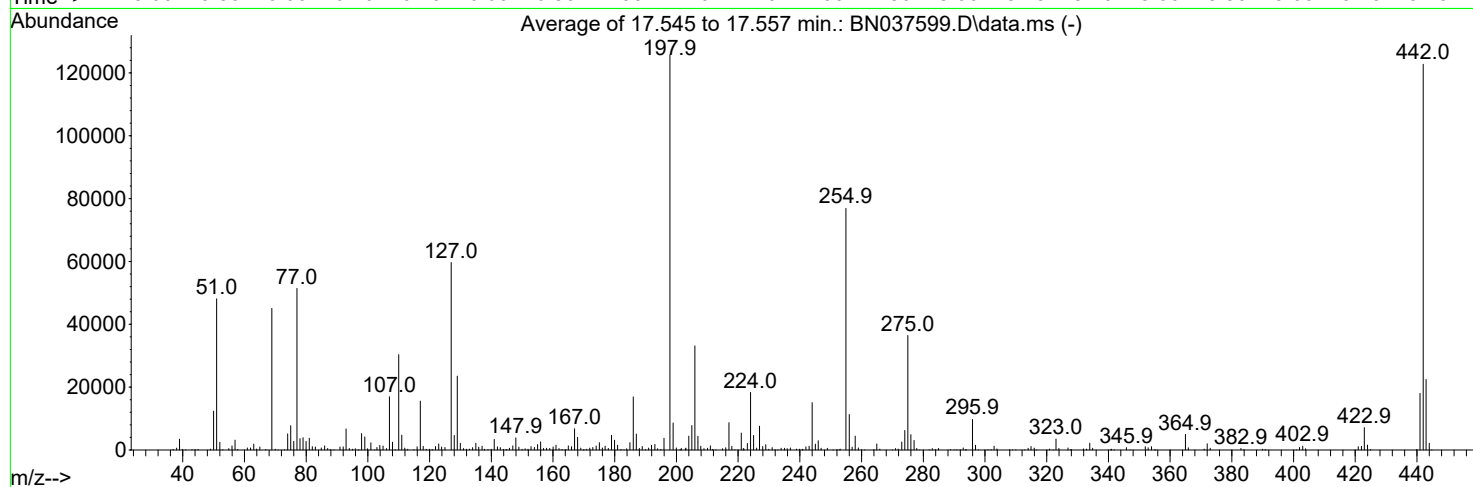
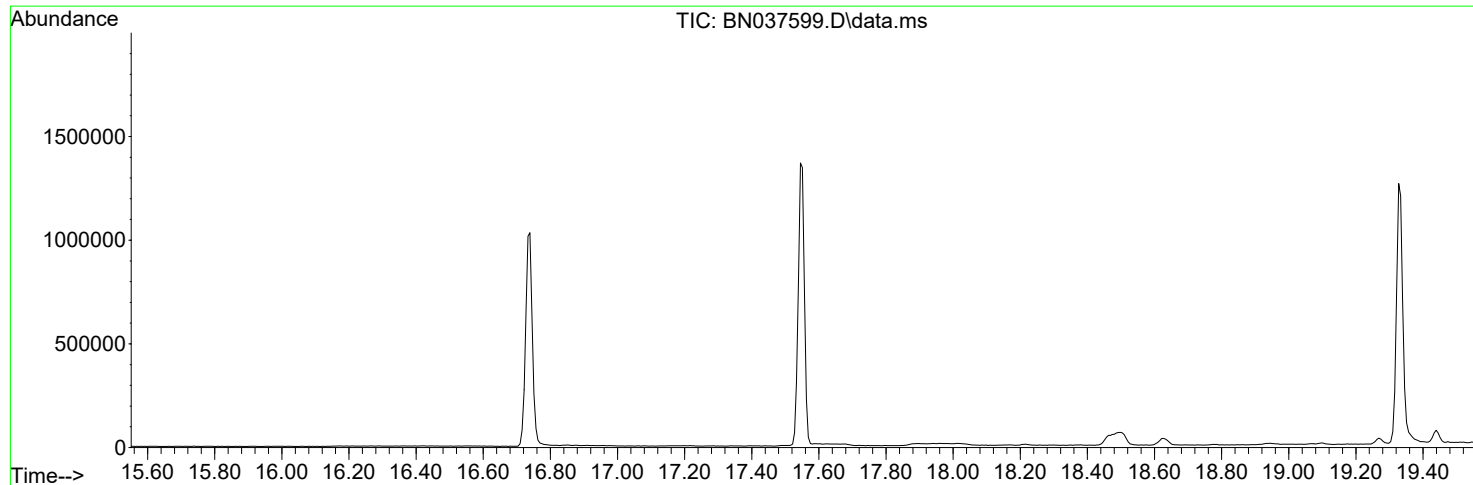
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 8/12/2025     | BNA_N            | <u>BN037576.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 903527           | 20.586             |
| DDD           | 9291             | 20.192             |
| DDE           | 170              | 19.633             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 9461          | 912988           | 1.04               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037599.D  
Acq On : 19 Aug 2025 10:00  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Aug 13 05:00:58 2025



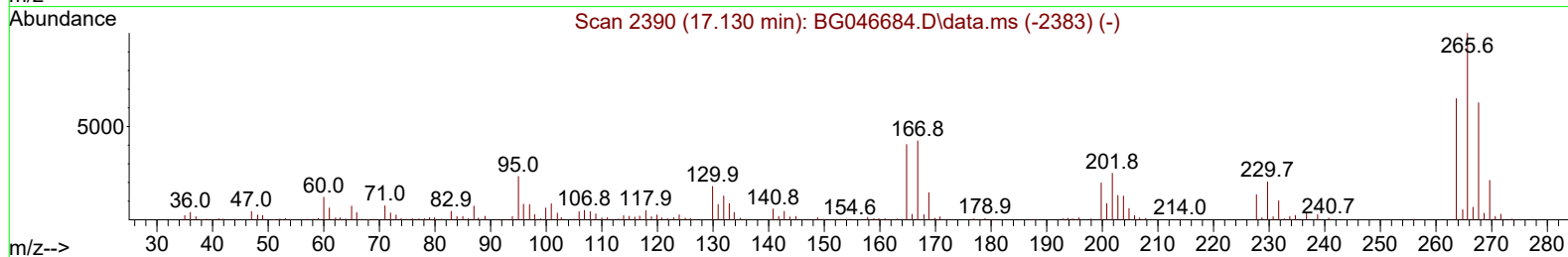
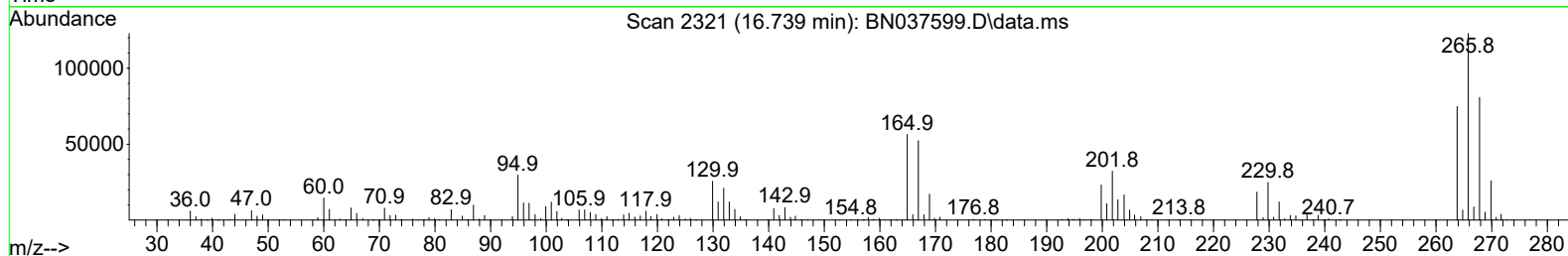
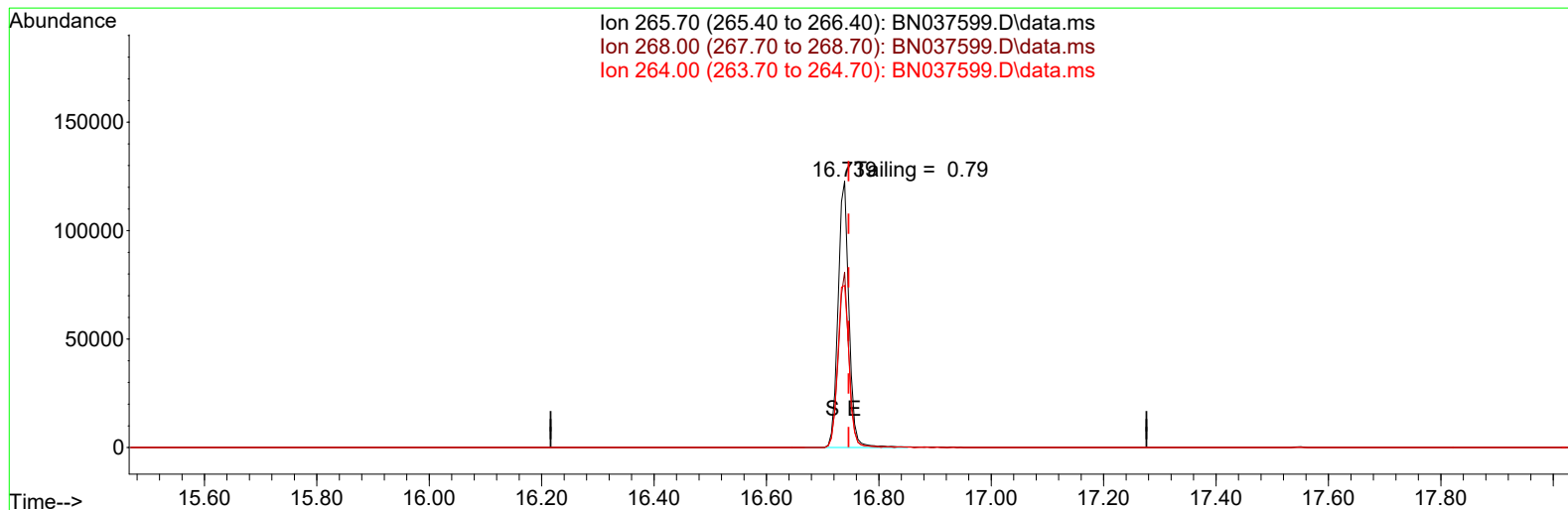
AutoFind: Scans 2458, 2459, 2460; Background Corrected with Scan 2451

| Target Mass | Rel. to Mass | Lower Limit% | Upper Limit% | Rel. Abn% | Raw Abn | Result Pass/Fail |
|-------------|--------------|--------------|--------------|-----------|---------|------------------|
| 68          | 69           | 0.00         | 2            | 0.0       | 0       | PASS             |
| 69          | 69           | 100          | 100          | 100.0     | 45078   | PASS             |
| 70          | 69           | 0.00         | 2            | 0.5       | 240     | PASS             |
| 197         | 198          | 0.00         | 2            | 0.0       | 0       | PASS             |
| 198         | 198          | 100          | 100          | 100.0     | 125645  | PASS             |
| 199         | 198          | 5            | 9            | 6.9       | 8618    | PASS             |
| 365         | 198          | 1            | 100          | 4.0       | 4986    | PASS             |
| 441         | 443          | 0.01         | 150          | 80.4      | 18037   | PASS             |
| 442         | 442          | 100          | 100          | 100.0     | 122741  | PASS             |
| 443         | 442          | 15           | 24           | 18.3      | 22437   | PASS             |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037599.D  
Acq On : 19 Aug 2025 10:00  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Aug 20 06:58:42 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 06 01:49:15 2025  
Response via : Initial Calibration



TIC: BN037599.D\data.ms

**(70) Pentachlorophenol (C)**

16.739min (-0.007) 26205.47 ng

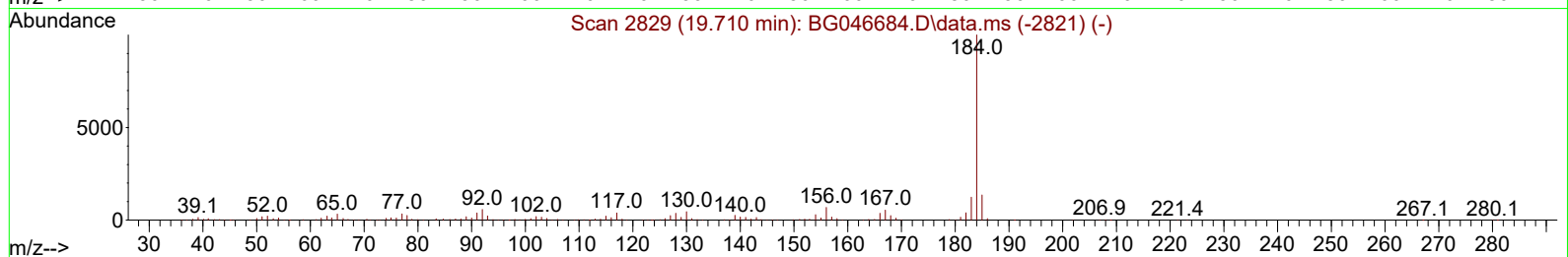
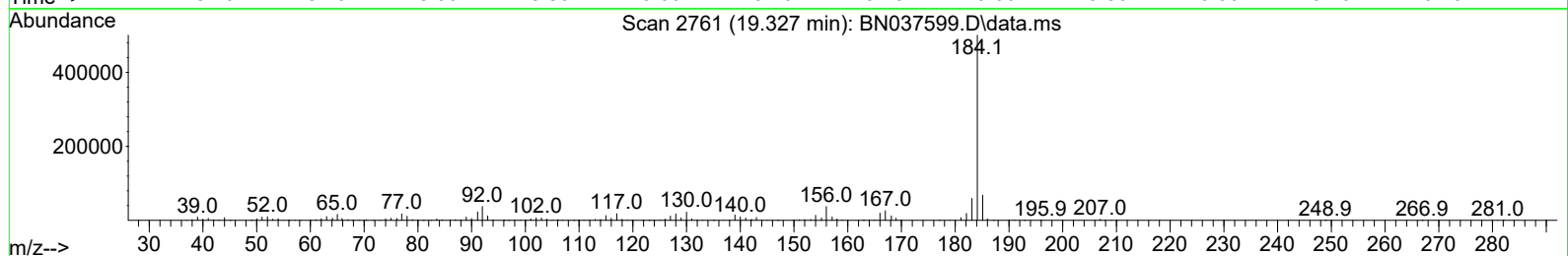
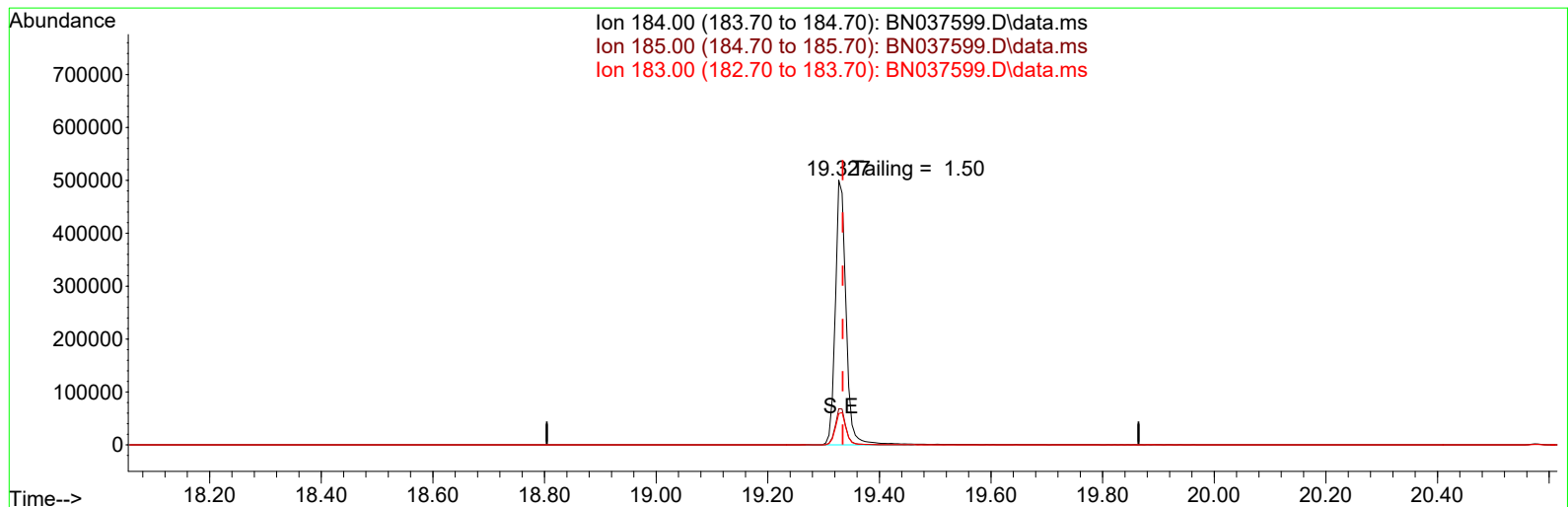
response 166374

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 65.84  |
| 264.00 | 61.60  | 60.88  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037599.D  
Acq On : 19 Aug 2025 10:00  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Aug 20 06:58:42 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 06 01:49:15 2025  
Response via : Initial Calibration



TIC: BN037599.D\data.ms

**(77) Benzidine**

19.327min (-0.007) 0.00 ng

response 670806

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 13.65  |
| 183.00 | 13.20  | 11.83  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

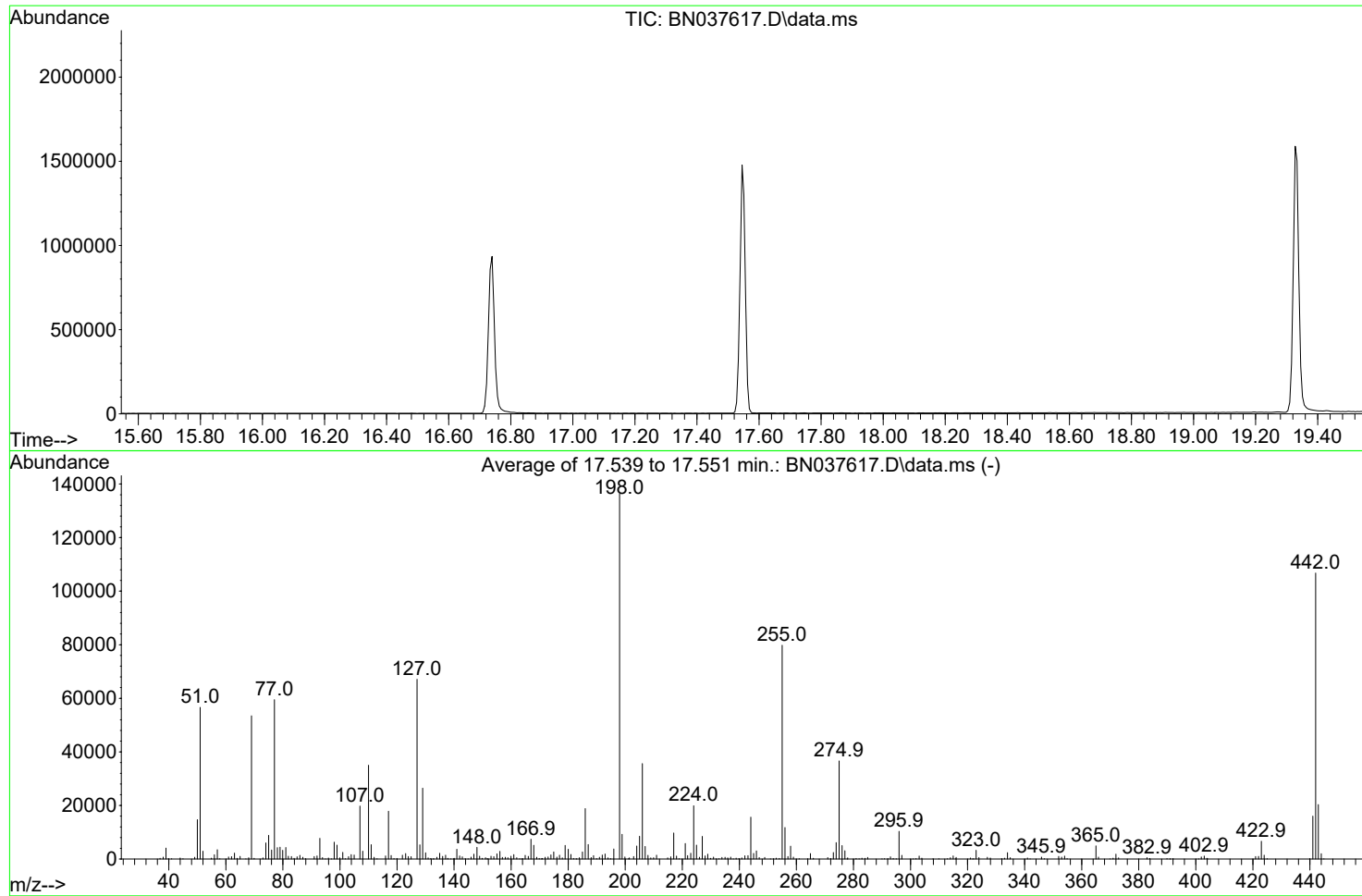
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 8/19/2025     | BNA_N            | <u>BN037599.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 413417           | 20.574             |
| DDD           | 3425             | 20.133             |
| DDE           | 498              | 19.627             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 3923          | 417340           | 0.94               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037617.D  
Acq On : 20 Aug 2025 03:35  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Aug 13 05:00:58 2025



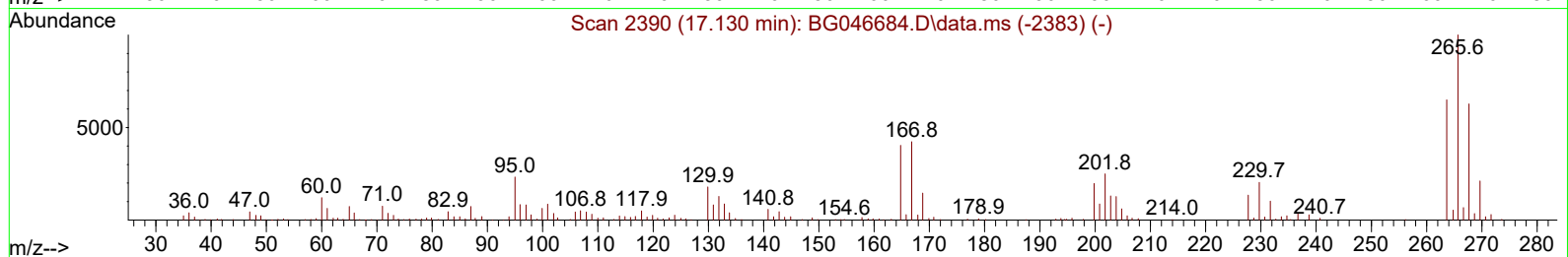
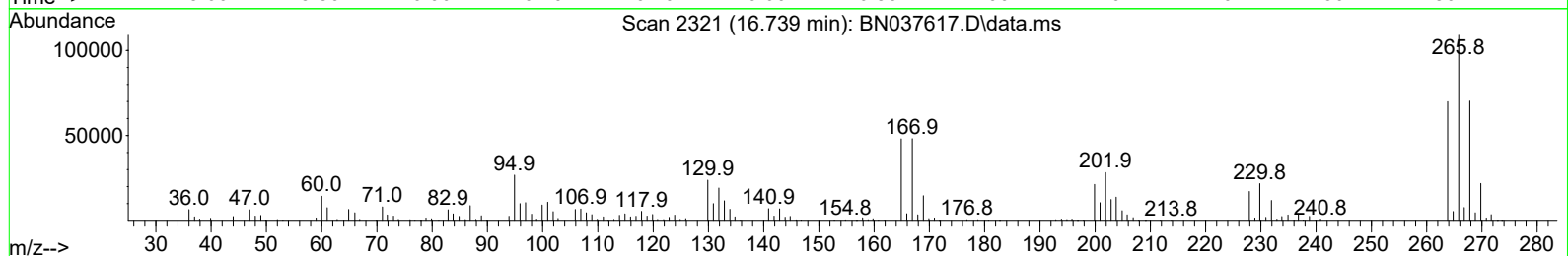
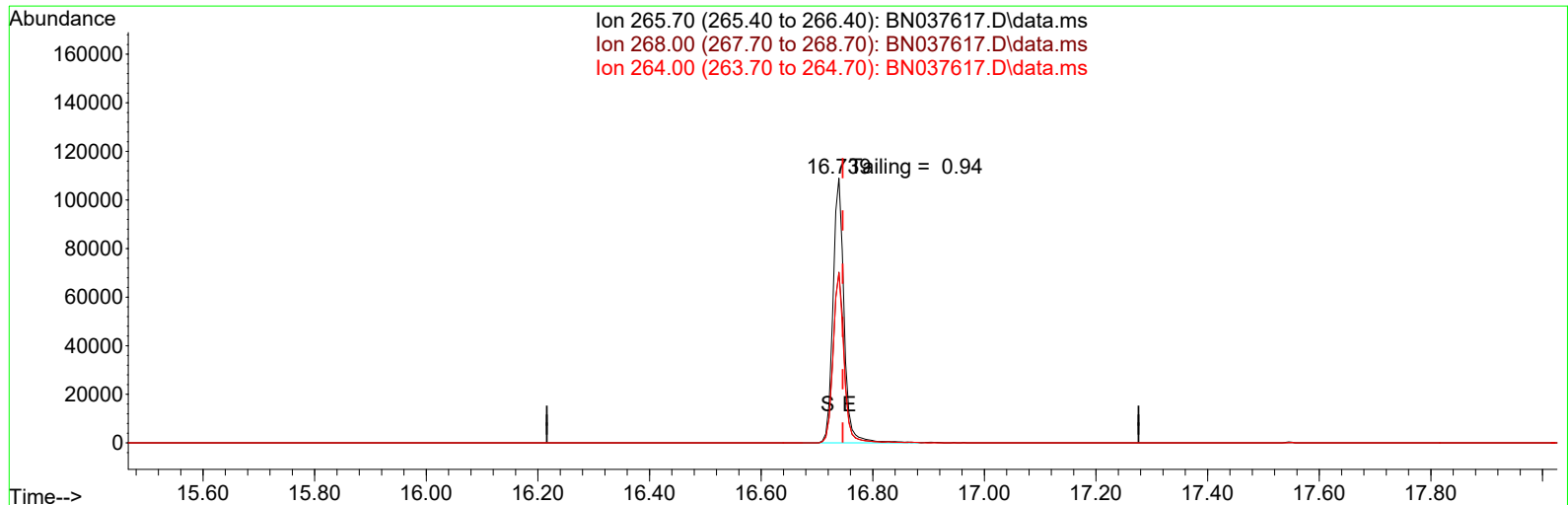
AutoFind: Scans 2457, 2458, 2459; Background Corrected with Scan 2451

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 68     | 69      | 0.00   | 2      | 0.9   | 485    | PASS      |
| 69     | 69      | 100    | 100    | 100.0 | 53448  | PASS      |
| 70     | 69      | 0.00   | 2      | 0.6   | 308    | PASS      |
| 197    | 198     | 0.00   | 2      | 0.0   | 0      | PASS      |
| 198    | 198     | 100    | 100    | 100.0 | 136293 | PASS      |
| 199    | 198     | 5      | 9      | 6.8   | 9235   | PASS      |
| 365    | 198     | 1      | 100    | 3.6   | 4939   | PASS      |
| 441    | 443     | 0.01   | 150    | 79.0  | 16038  | PASS      |
| 442    | 442     | 100    | 100    | 100.0 | 106744 | PASS      |
| 443    | 442     | 15     | 24     | 19.0  | 20305  | PASS      |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037617.D  
Acq On : 20 Aug 2025 03:35  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Aug 20 07:01:46 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 06 01:49:15 2025  
Response via : Initial Calibration



TIC: BN037617.D\data.ms

**(70) Pentachlorophenol (C)**

16.739min (-0.006) 24577.65 ng

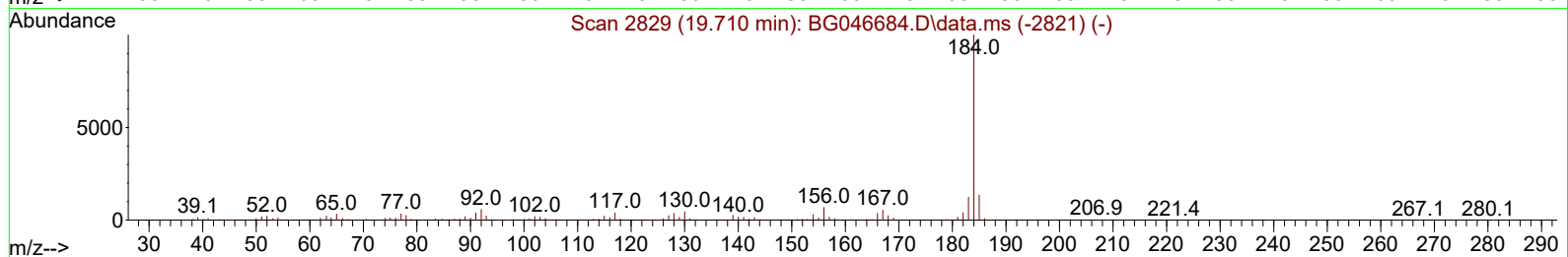
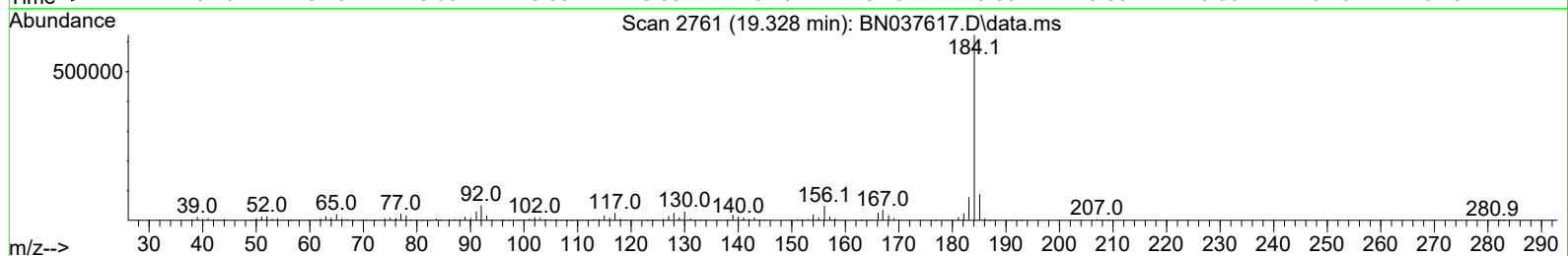
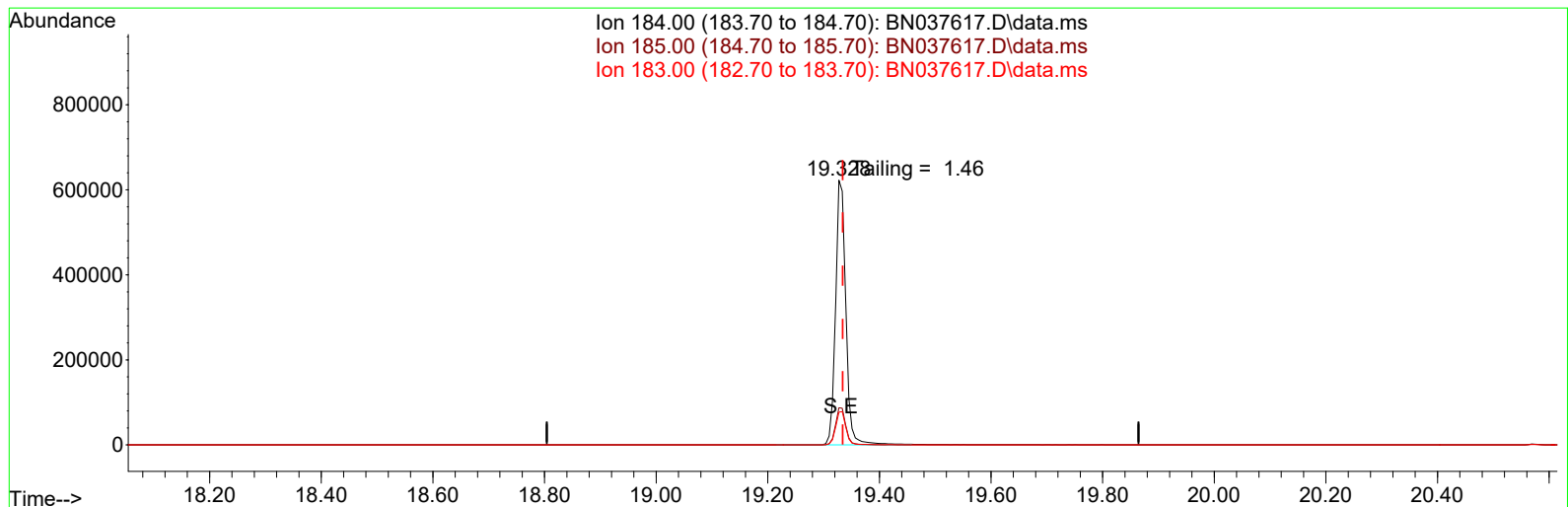
response 150060

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 64.52  |
| 264.00 | 61.60  | 64.16  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037617.D  
Acq On : 20 Aug 2025 03:35  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Aug 20 07:01:46 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 06 01:49:15 2025  
Response via : Initial Calibration



TIC: BN037617.D\data.ms

**(77) Benzydine**

**19.328min (-0.006) 0.00 ng**

**response 801660**

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.02  |
| 183.00 | 13.20  | 12.34  |
| 0.00   | 0.00   | 0.00   |



Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 8/19/2025     | BNA_N            | <u>BN037617.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 466043           | 20.575             |
| DDD           | 8008             | 20.133             |
| DDE           | 521              | 19.628             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 8529          | 474572           | 1.80               |
|               |                  |                    |

## Report of Analysis

|                    |                                           |                 |                |
|--------------------|-------------------------------------------|-----------------|----------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: |                |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  |                |
| Client Sample ID:  | PB169286BL                                | SDG No.:        | Q2842          |
| Lab Sample ID:     | PB169286BL                                | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                                | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 Units: mL                            | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  | uL                                        | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted : N                              | Level :         | LOW            |
| Injection Volume : | GPC Factor : 1.0                          | GPC Cleanup :   | N PH :         |
| Prep Method :      |                                           |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037619.D        | 1         | 08/18/25 08:41 | 08/20/25 04:50 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |                     |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.070 | U         | 0.070               | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |                     |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.32  |           | 30 (20) - 150 (139) | 81%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.33  |           | 30 (54) - 150 (157) | 83%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 30 (27) - 130 (154) | 90%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.35  |           | 30 (30) - 130 (155) | 86%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.37  |           | 30 (54) - 130 (175) | 93%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |                     |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2320  | 7.71      |                     |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5230  | 10.498    |                     |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2340  | 14.345    |                     |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 4470  | 17.087    |                     |            |          |
| 1719-03-5                 | Chrysene-d12            | 3730  | 21.268    |                     |            |          |
| 1520-96-3                 | Perylene-d12            | 3550  | 23.499    |                     |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037619.D  
Acq On : 20 Aug 2025 04:50  
Operator : RC/JU  
Sample : PB169286BL  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BL

Quant Time: Aug 20 06:13:41 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.710  | 152  | 2323     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.498 | 136  | 5229     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10        | 14.345 | 164  | 2344     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10        | 17.087 | 188  | 4466     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12            | 21.268 | 240  | 3733     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12            | 23.499 | 264  | 3552     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.305  | 112  | 1799     | 0.342 | ng    | 0.00     |
| 5) Phenol-d6                | 6.880  | 99   | 1860     | 0.293 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.854  | 82   | 1323     | 0.359 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10 | 12.086 | 152  | 2298     | 0.323 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol    | 15.845 | 330  | 240      | 0.234 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 12.968 | 172  | 4692     | 0.346 | ng    | 0.00     |
| 27) Fluoranthene-d10        | 19.118 | 212  | 3886     | 0.331 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.717 | 244  | 2840     | 0.370 | ng    | 0.00     |

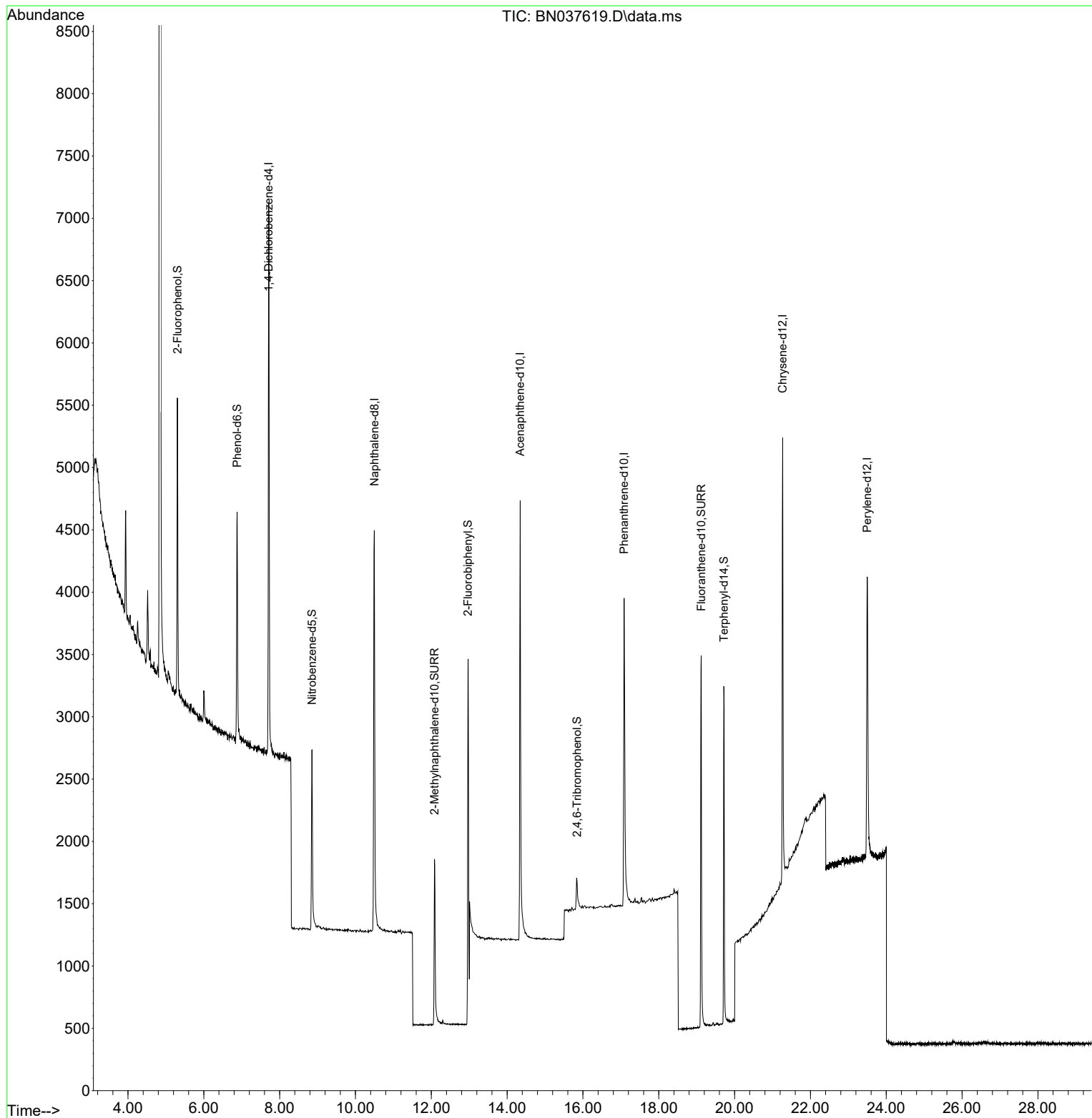
Target Compounds Qvalue

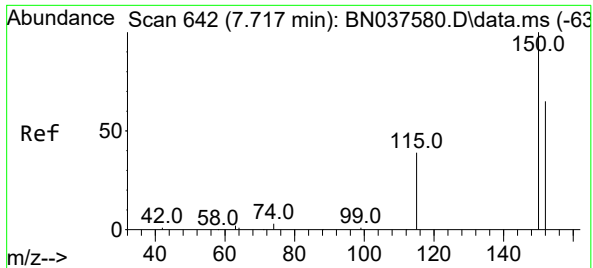
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037619.D  
Acq On : 20 Aug 2025 04:50  
Operator : RC/JU  
Sample : PB169286BL  
Misc :  
ALS Vial : 20 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BL

Quant Time: Aug 20 06:13:41 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration

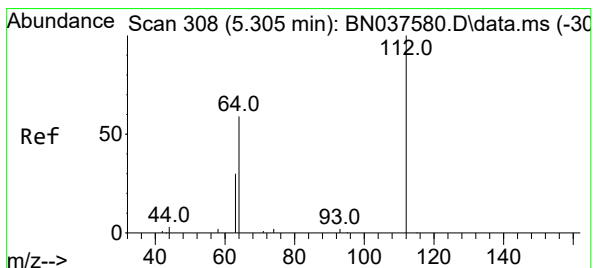
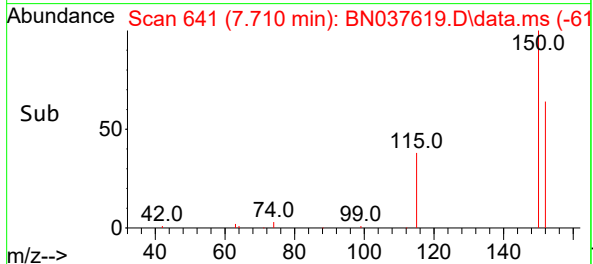
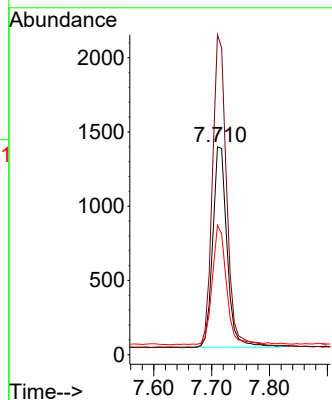
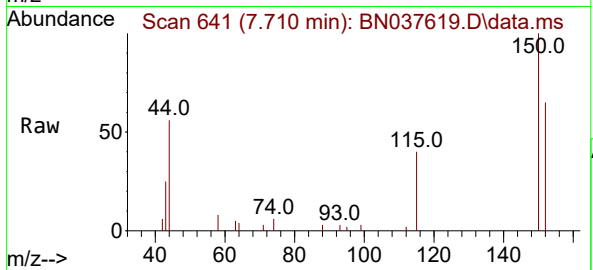




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.710 min Scan# 641  
Delta R.T. -0.007 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

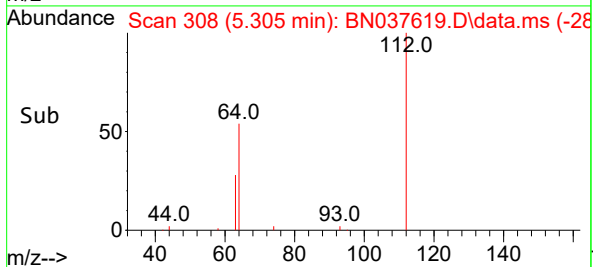
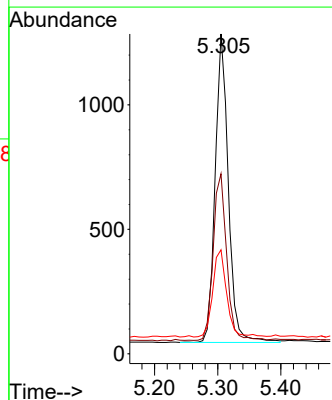
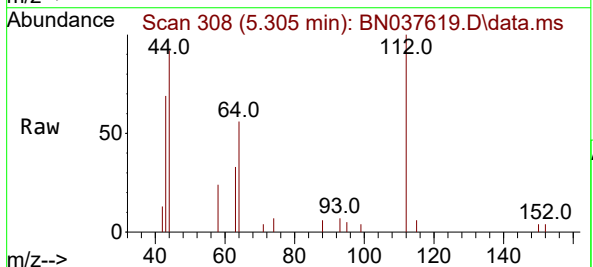
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BL

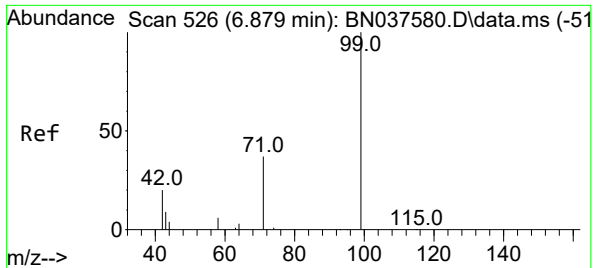
Tgt Ion:152 Resp: 2323  
Ion Ratio Lower Upper  
152 100  
150 153.9 122.2 183.4  
115 62.3 49.8 74.6



#4  
2-Fluorophenol  
Concen: 0.342 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

Tgt Ion:112 Resp: 1799  
Ion Ratio Lower Upper  
112 100  
64 55.3 44.9 67.3  
63 30.0 23.4 35.2

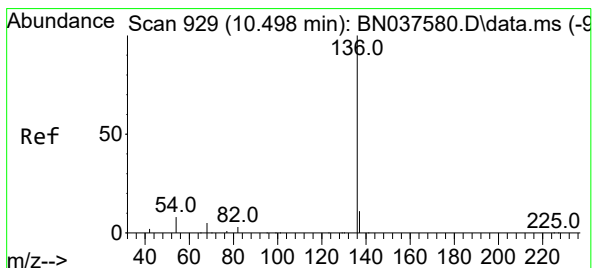
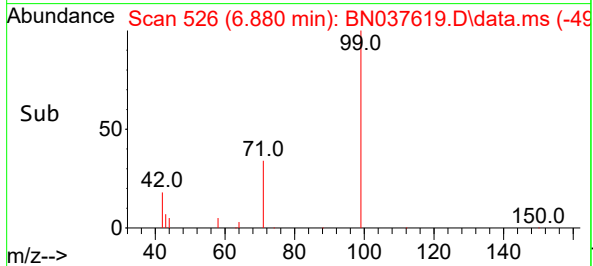
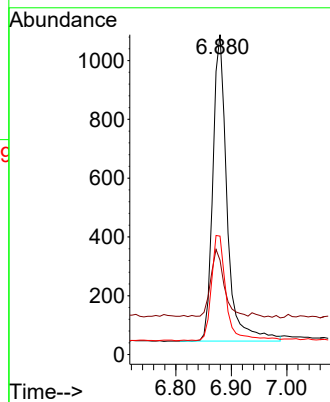
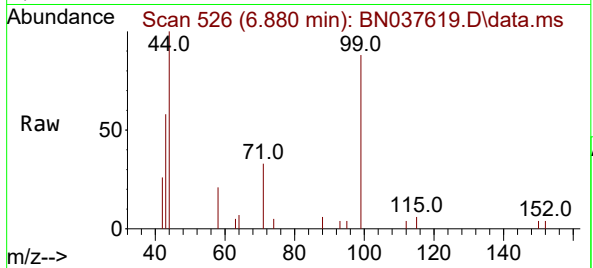




#5  
Phenol-d6  
Concen: 0.293 ng  
RT: 6.880 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

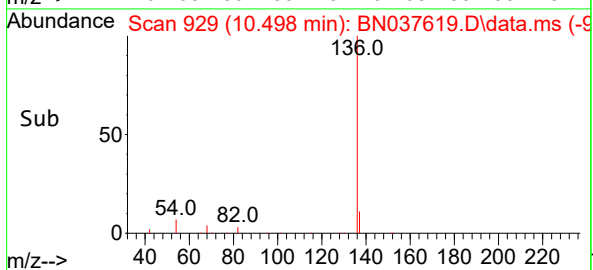
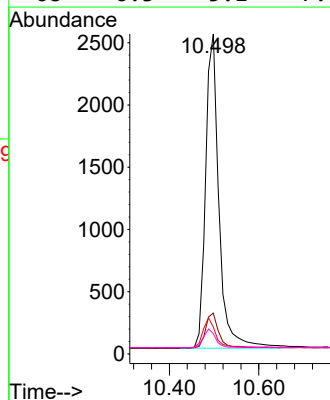
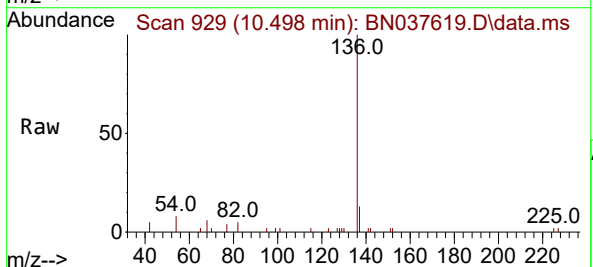
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BL

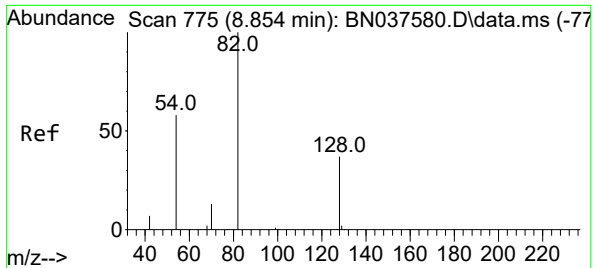
Tgt Ion: 99 Resp: 1860  
Ion Ratio Lower Upper  
99 100  
42 20.8 18.5 27.7  
71 35.5 28.6 42.8



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 929  
Delta R.T. 0.000 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

Tgt Ion: 136 Resp: 5229  
Ion Ratio Lower Upper  
136 100  
137 12.8 9.5 14.3  
54 8.4 7.3 10.9  
68 6.3 5.1 7.7

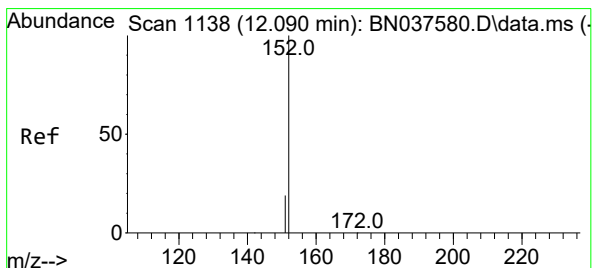
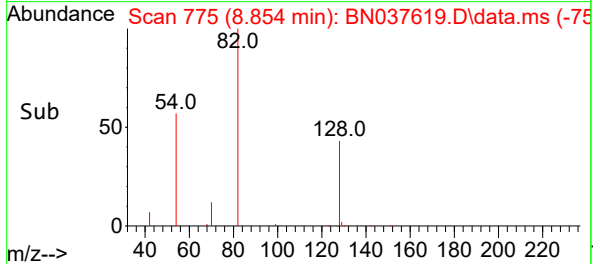
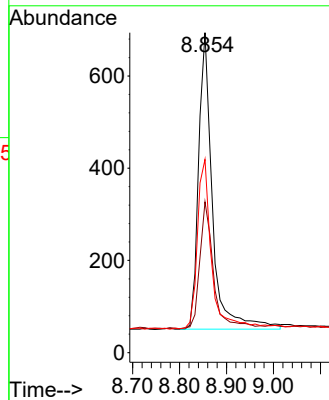
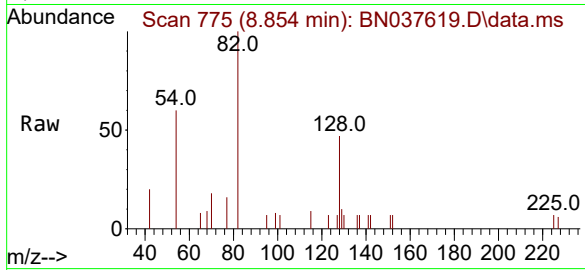




#8  
Nitrobenzene-d5  
Concen: 0.359 ng  
RT: 8.854 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

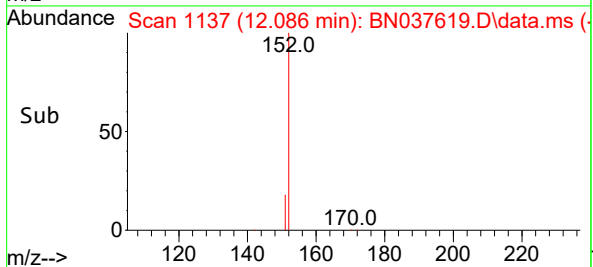
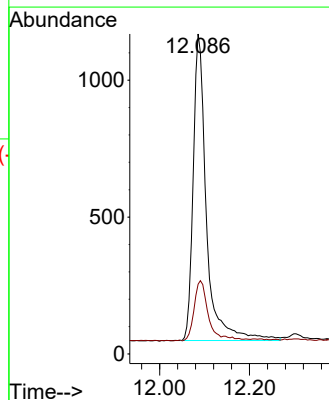
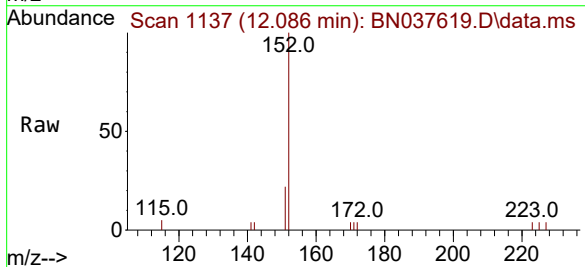
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BL

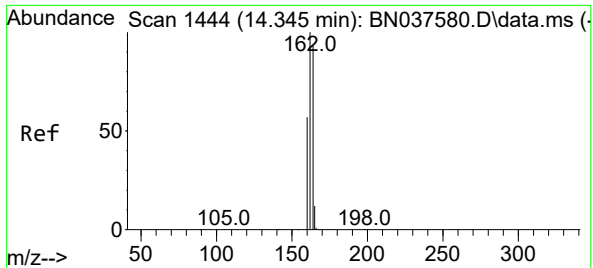
Tgt Ion: 82 Resp: 1323  
Ion Ratio Lower Upper  
82 100  
128 47.1 32.6 48.8  
54 60.4 48.9 73.3



#11  
2-Methylnaphthalene-d10  
Concen: 0.323 ng  
RT: 12.086 min Scan# 1137  
Delta R.T. -0.005 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

Tgt Ion: 152 Resp: 2298  
Ion Ratio Lower Upper  
152 100  
151 21.3 17.3 25.9

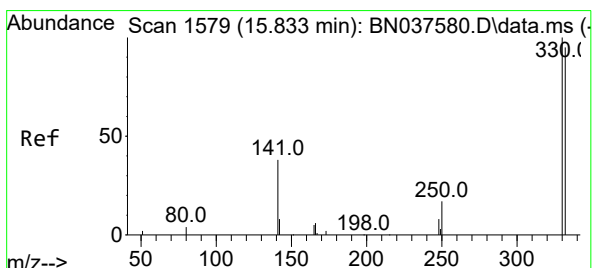
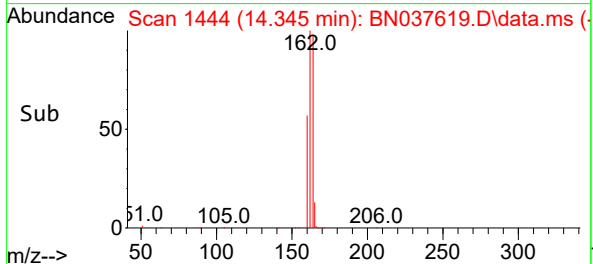
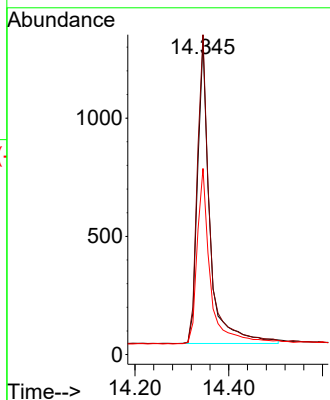
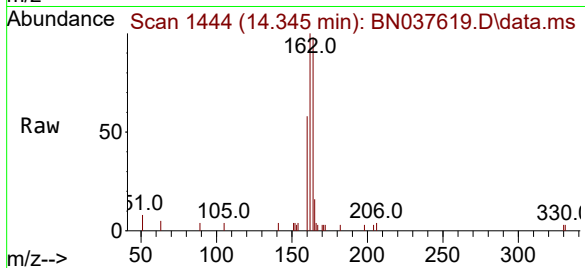




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

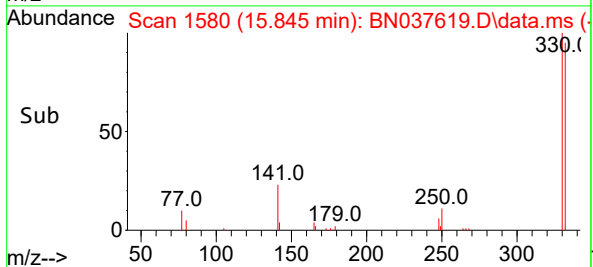
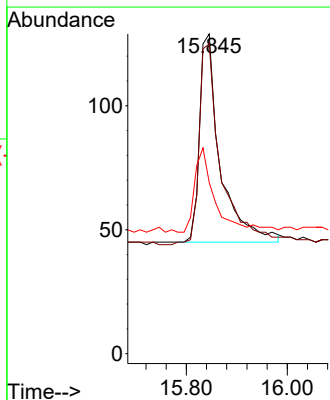
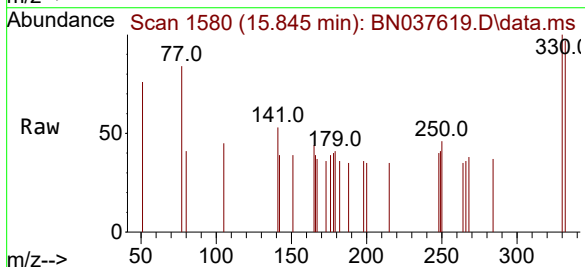
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BL

| Tgt Ion | 164   | Resp: | 2344  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 164     | 100   |       |       |
| 162     | 102.2 | 85.5  | 128.3 |
| 160     | 59.4  | 49.5  | 74.3  |

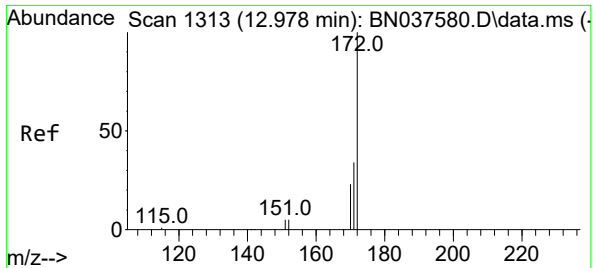


#14  
2,4,6-Tribromophenol  
Concen: 0.234 ng  
RT: 15.845 min Scan# 1580  
Delta R.T. 0.013 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

| Tgt Ion | 330   | Resp: | 240   |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 330     | 100   |       |       |
| 332     | 101.3 | 77.4  | 116.0 |
| 141     | 40.0  | 30.9  | 46.3  |



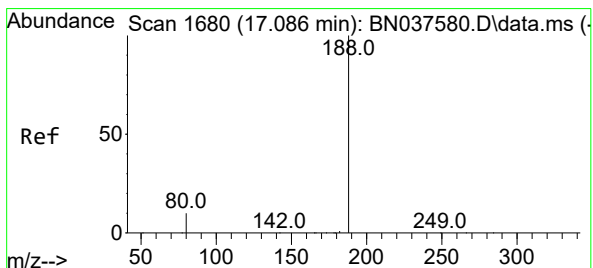
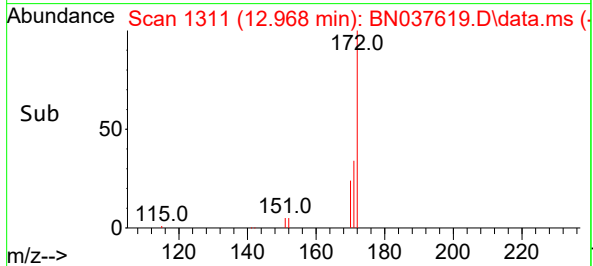
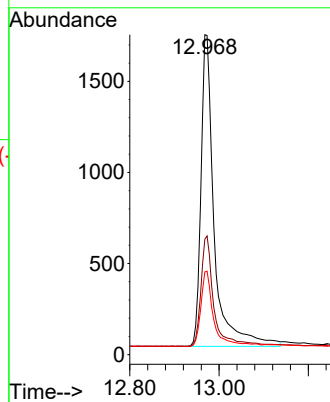
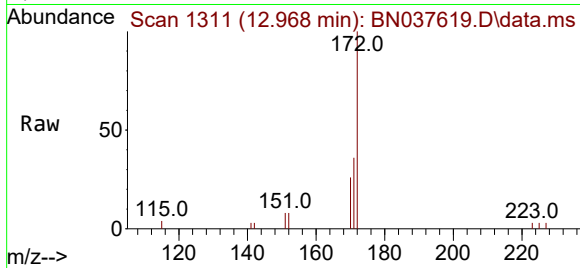




#15  
2-Fluorobiphenyl  
Concen: 0.346 ng  
RT: 12.968 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

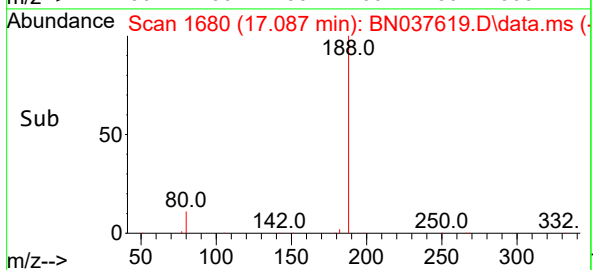
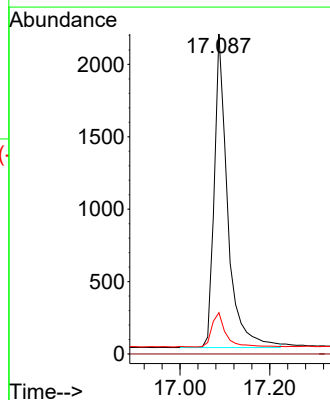
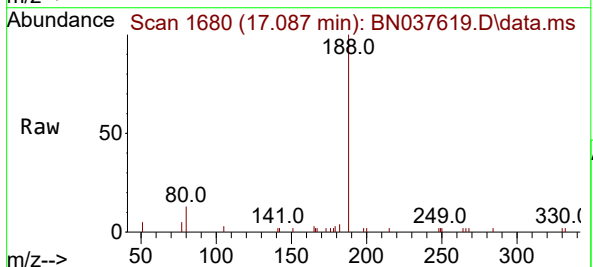
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BL

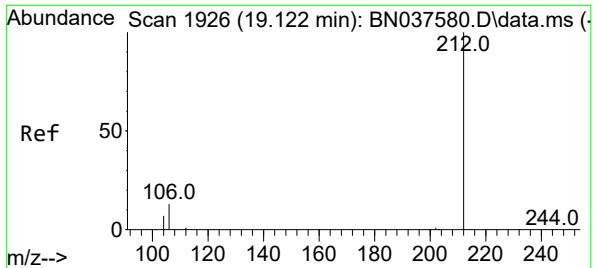
Tgt Ion:172 Resp: 4692  
Ion Ratio Lower Upper  
172 100  
171 36.1 28.2 42.4  
170 25.9 19.2 28.8



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.087 min Scan# 1680  
Delta R.T. 0.000 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

Tgt Ion:188 Resp: 4466  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 12.9 9.1 13.7





#27

Fluoranthene-d10

Concen: 0.331 ng

RT: 19.118 min Scan# 19

Delta R.T. -0.004 min

Lab File: BN037619.D

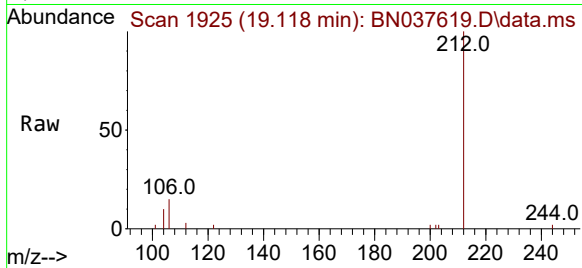
Acq: 20 Aug 2025 04:50

Instrument :

BNA\_N

ClientSampleId :

PB169286BL



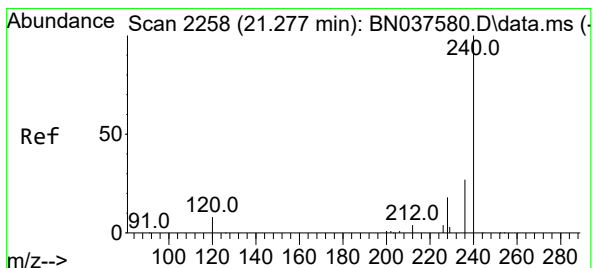
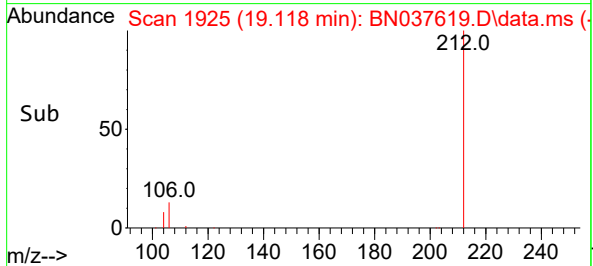
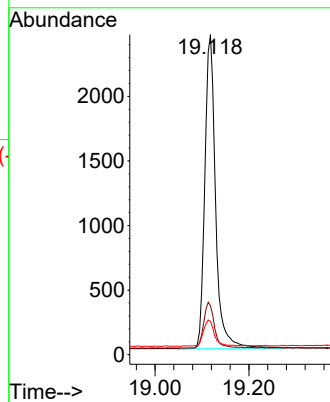
Tgt Ion:212 Resp: 3886

Ion Ratio Lower Upper

212 100

106 14.4 11.5 17.3

104 9.3 6.6 9.8



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 2257

Delta R.T. -0.009 min

Lab File: BN037619.D

Acq: 20 Aug 2025 04:50

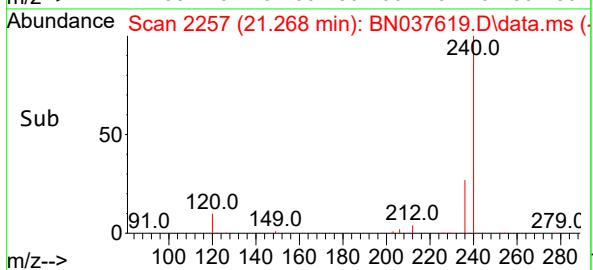
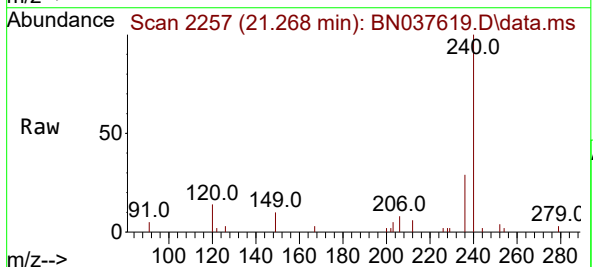
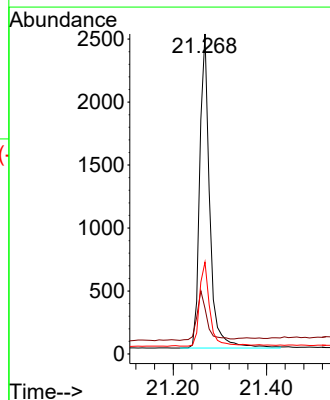
Tgt Ion:240 Resp: 3733

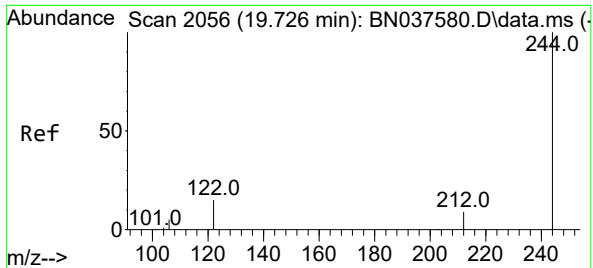
Ion Ratio Lower Upper

240 100

120 14.2 8.9 13.3#

236 28.7 22.6 33.8

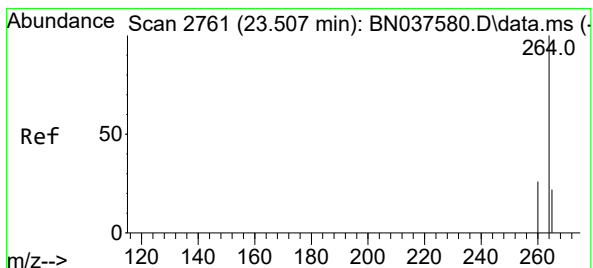
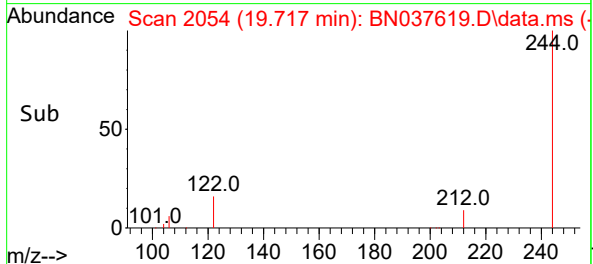
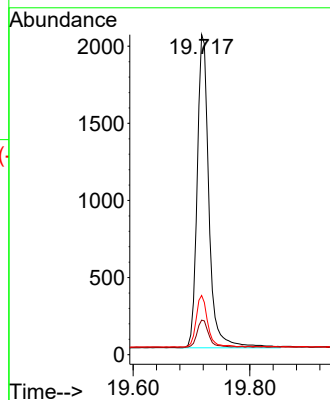
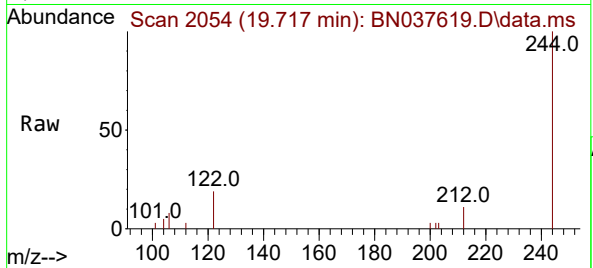




#31  
Terphenyl-d14  
Concen: 0.370 ng  
RT: 19.717 min Scan# 2054  
Delta R.T. -0.009 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

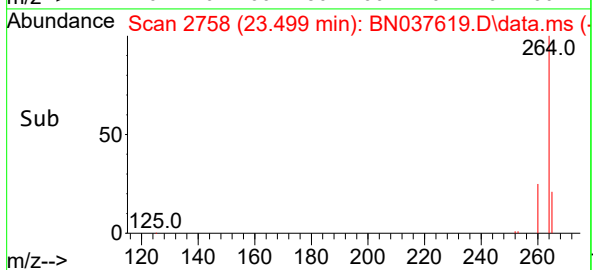
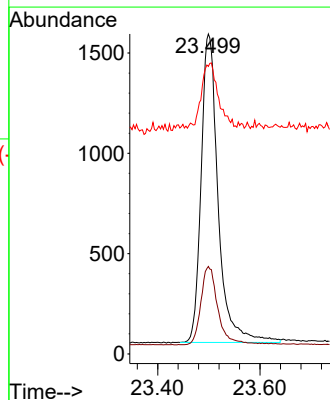
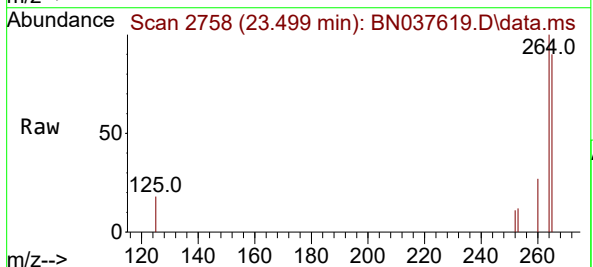
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BL

Tgt Ion:244 Resp: 2840  
Ion Ratio Lower Upper  
244 100  
212 10.8 8.2 12.2  
122 18.5 13.2 19.8



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.499 min Scan# 2758  
Delta R.T. -0.008 min  
Lab File: BN037619.D  
Acq: 20 Aug 2025 04:50

Tgt Ion:264 Resp: 3552  
Ion Ratio Lower Upper  
264 100  
260 27.3 21.6 32.4  
265 89.8 48.2 72.4#



## Report of Analysis

|                    |                                           |                 |                |
|--------------------|-------------------------------------------|-----------------|----------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: |                |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  |                |
| Client Sample ID:  | PB169286BS                                | SDG No.:        | Q2842          |
| Lab Sample ID:     | PB169286BS                                | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                                | % Solid:        | 0              |
| Sample Wt/Vol:     | 1000 Units: mL                            | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  | uL                                        | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted : N                              | Level :         | LOW            |
| Injection Volume : | GPC Factor : 1.0                          | GPC Cleanup :   | N PH :         |
| Prep Method :      |                                           |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037630.D        | 1         | 08/18/25 08:41 | 08/20/25 11:25 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |                     |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.30  |           | 0.070               | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |                     |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.33  |           | 30 (20) - 150 (139) | 82%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.31  |           | 30 (54) - 150 (157) | 76%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.35  |           | 30 (27) - 130 (154) | 87%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.36  |           | 30 (30) - 130 (155) | 90%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.35  |           | 30 (54) - 130 (175) | 88%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |                     |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2390  | 7.71      |                     |            |          |
| 1146-65-2                 | Naphthalene-d8          | 5620  | 10.487    |                     |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2630  | 14.345    |                     |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5040  | 17.086    |                     |            |          |
| 1719-03-5                 | Chrysene-d12            | 4180  | 21.268    |                     |            |          |
| 1520-96-3                 | Perylene-d12            | 3780  | 23.502    |                     |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037630.D  
 Acq On : 20 Aug 2025 11:25  
 Operator : RC/JU  
 Sample : PB169286BS  
 Misc :  
 ALS Vial : 31 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB169286BS

Quant Time: Aug 21 04:13:47 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

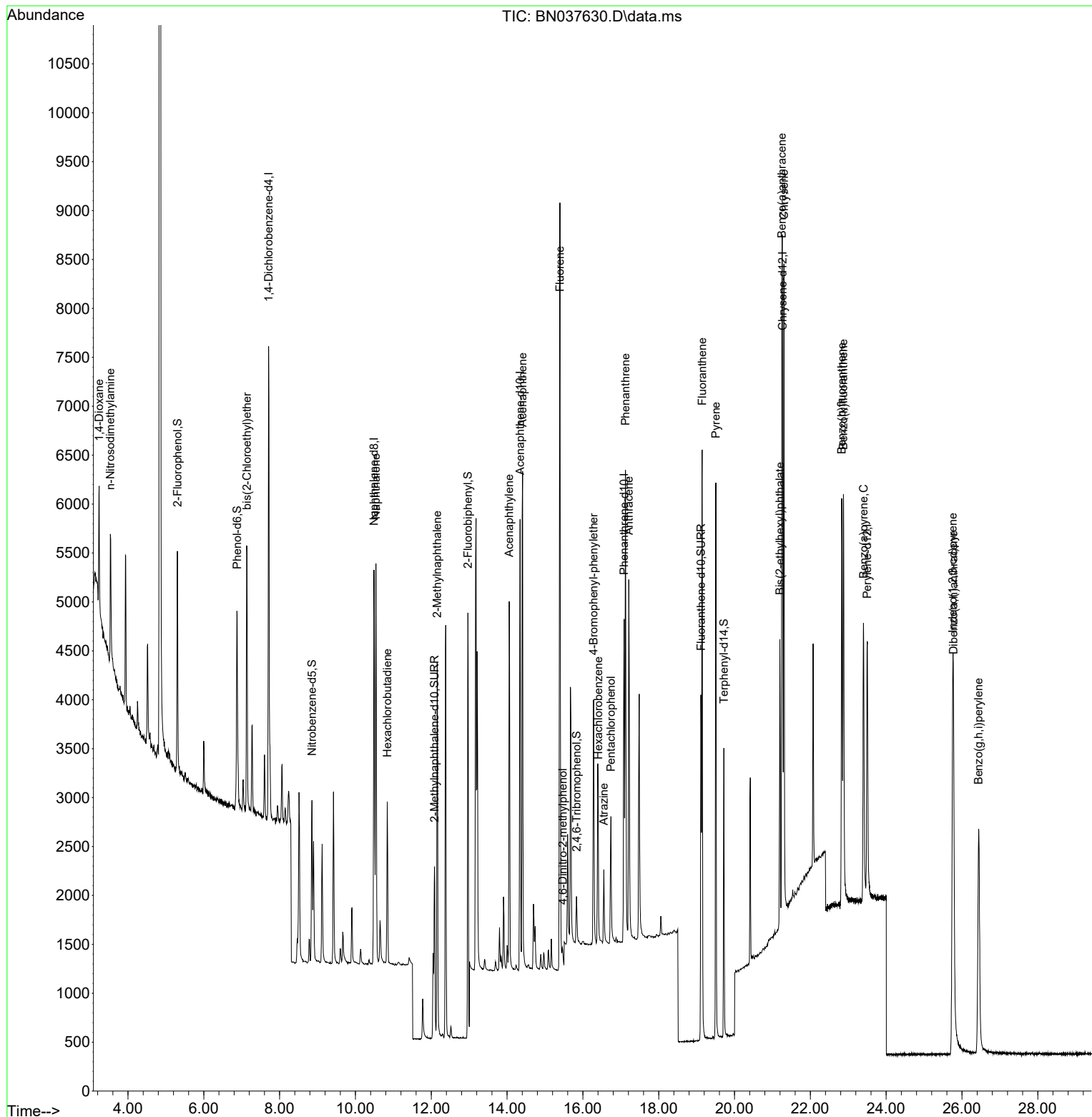
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.710  | 152  | 2389     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.487 | 136  | 5616     | 0.400 | ng    | -0.01    |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2629     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 5040     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 4175     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.502 | 264  | 3780     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 1761     | 0.325 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 1961     | 0.301 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 1380     | 0.349 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.085 | 152  | 2508     | 0.329 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 342      | 0.297 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.968 | 172  | 5503     | 0.362 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.113 | 212  | 4038     | 0.305 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.717 | 244  | 3008     | 0.350 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 677      | 0.296 | ng    | # 78     |
| 3) n-Nitrosodimethylamine     | 3.535  | 42   | 966      | 0.331 | ng    | 95       |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 2041     | 0.347 | ng    | 96       |
| 9) Naphthalene                | 10.541 | 128  | 5264     | 0.352 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.840 | 225  | 1357     | 0.371 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.156 | 142  | 2891     | 0.308 | ng    | 100      |
| 16) Acenaphthylene            | 14.056 | 152  | 4394     | 0.373 | ng    | 100      |
| 17) Acenaphthene              | 14.409 | 154  | 2664     | 0.332 | ng    | 99       |
| 18) Fluorene                  | 15.392 | 166  | 3473     | 0.331 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.467 | 198  | 153      | 0.348 | ng    | # 79     |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248  | 1063     | 0.336 | ng    | # 82     |
| 22) Hexachlorobenzene         | 16.404 | 284  | 1644     | 0.366 | ng    | 98       |
| 23) Atrazine                  | 16.553 | 200  | 688      | 0.384 | ng    | 95       |
| 24) Pentachlorophenol         | 16.739 | 266  | 719      | 0.456 | ng    | 96       |
| 25) Phenanthrene              | 17.124 | 178  | 5179     | 0.338 | ng    | 99       |
| 26) Anthracene                | 17.210 | 178  | 4635     | 0.342 | ng    | 100      |
| 28) Fluoranthene              | 19.146 | 202  | 5464     | 0.310 | ng    | 100      |
| 30) Pyrene                    | 19.508 | 202  | 5332     | 0.342 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.250 | 228  | 4944     | 0.355 | ng    | 98       |
| 33) Chrysene                  | 21.304 | 228  | 5598     | 0.360 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.196 | 149  | 1867     | 0.324 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.756 | 276  | 5812     | 0.365 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.829 | 252  | 5325     | 0.372 | ng    | 97       |
| 38) Benzo(k)fluoranthene      | 22.873 | 252  | 5420     | 0.335 | ng    | 97       |
| 39) Benzo(a)pyrene            | 23.402 | 252  | 4490     | 0.378 | ng    | 95       |
| 40) Dibenzo(a,h)anthracene    | 25.776 | 278  | 4445     | 0.360 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 26.440 | 276  | 5149     | 0.395 | ng    | 98       |
| -----                         |        |      |          |       |       |          |

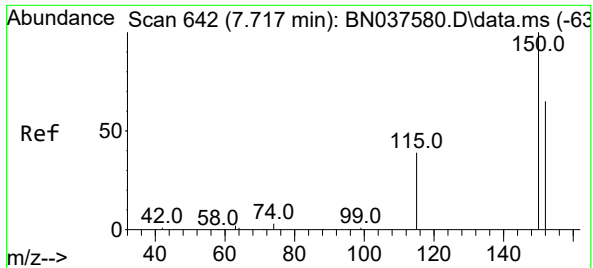
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
Data File : BN037630.D  
Acq On : 20 Aug 2025 11:25  
Operator : RC/JU  
Sample : PB169286BS  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

Quant Time: Aug 21 04:13:47 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Aug 13 05:00:58 2025  
Response via : Initial Calibration

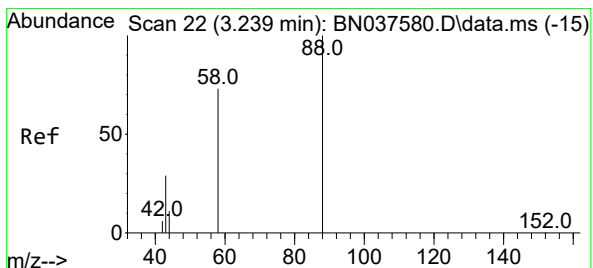
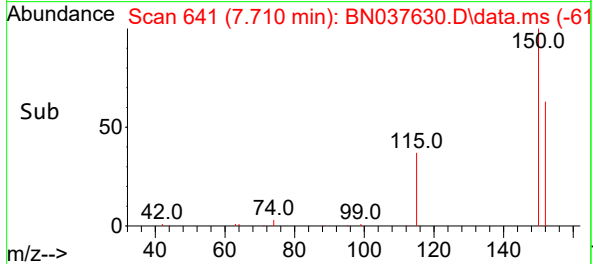
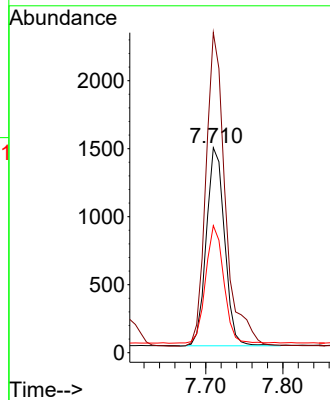
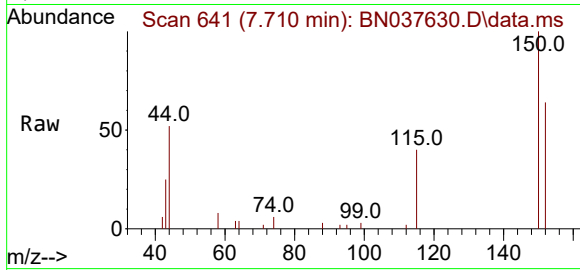




#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.710 min Scan# 64  
 Delta R.T. -0.007 min  
 Lab File: BN037630.D  
 Acq: 20 Aug 2025 11:25

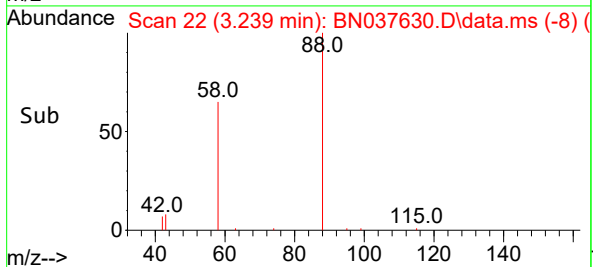
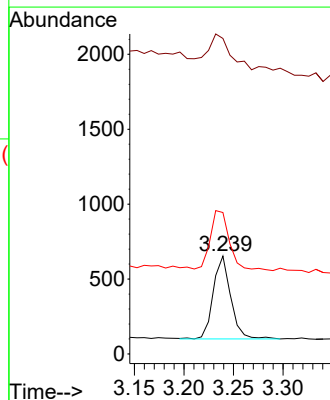
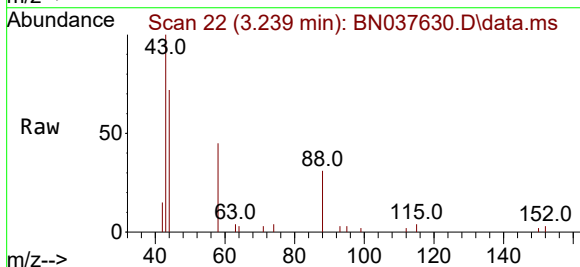
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB169286BS

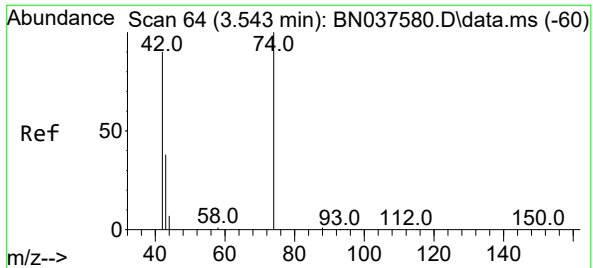
Tgt Ion:152 Resp: 2389  
 Ion Ratio Lower Upper  
 152 100  
 150 156.1 122.2 183.4  
 115 62.0 49.8 74.6



#2  
 1,4-Dioxane  
 Concen: 0.296 ng  
 RT: 3.239 min Scan# 22  
 Delta R.T. 0.000 min  
 Lab File: BN037630.D  
 Acq: 20 Aug 2025 11:25

Tgt Ion: 88 Resp: 677  
 Ion Ratio Lower Upper  
 88 100  
 43 67.7 25.8 38.6#  
 58 80.4 61.2 91.8

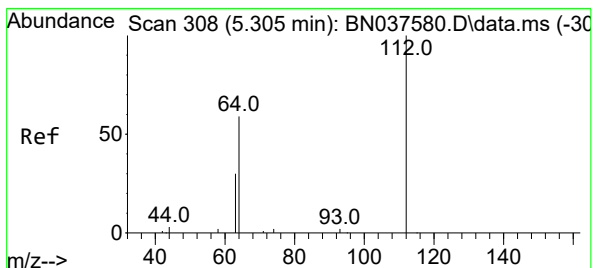
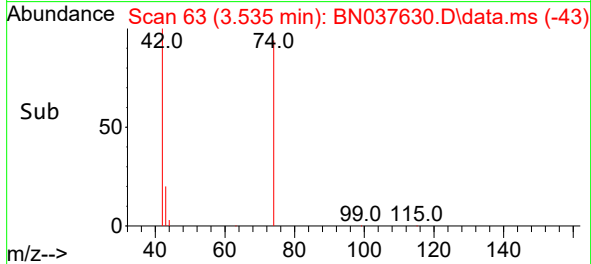
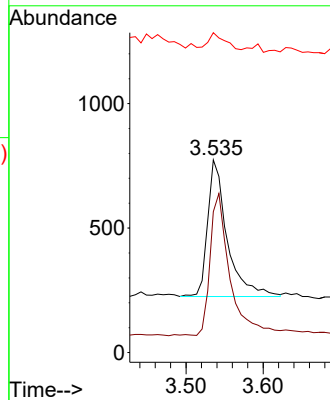
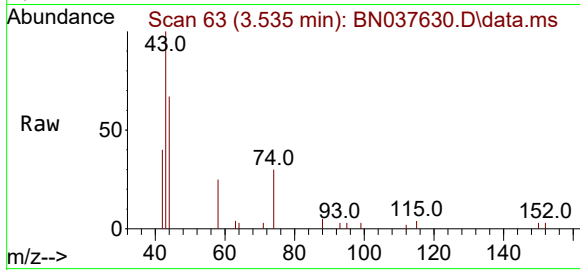




#3  
n-Nitrosodimethylamine  
Concen: 0.331 ng  
RT: 3.535 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

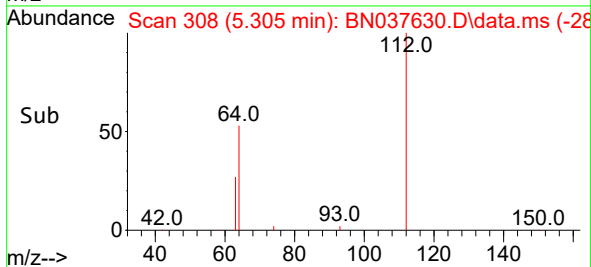
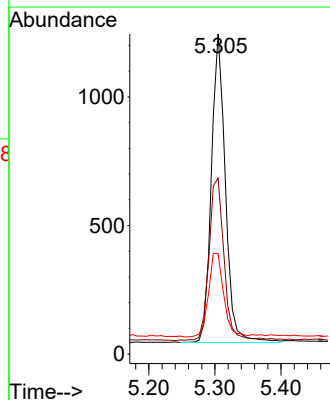
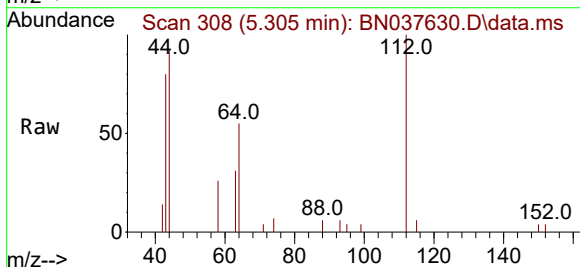
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

Tgt Ion: 42 Resp: 966  
Ion Ratio Lower Upper  
42 100  
74 107.3 82.0 123.0  
44 10.8 7.9 11.9

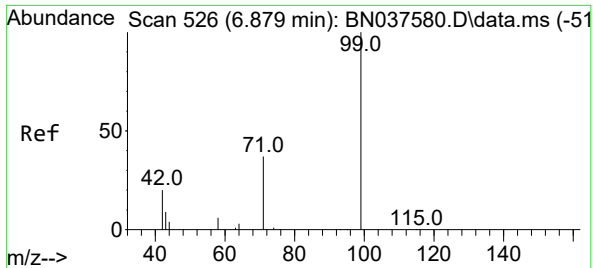


#4  
2-Fluorophenol  
Concen: 0.325 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

Tgt Ion: 112 Resp: 1761  
Ion Ratio Lower Upper  
112 100  
64 57.8 44.9 67.3  
63 29.2 23.4 35.2



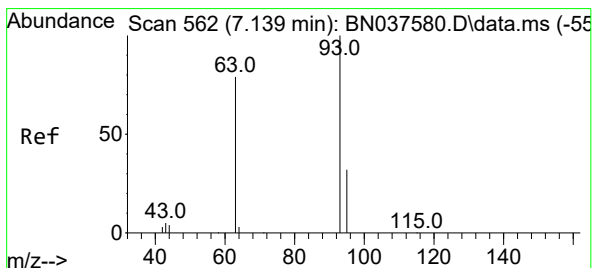
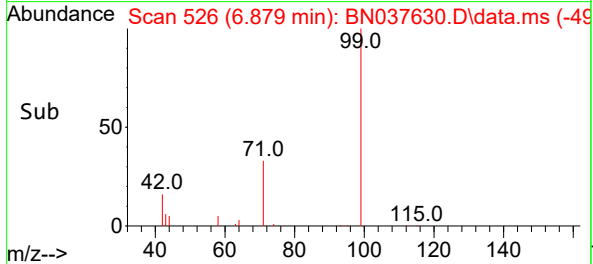
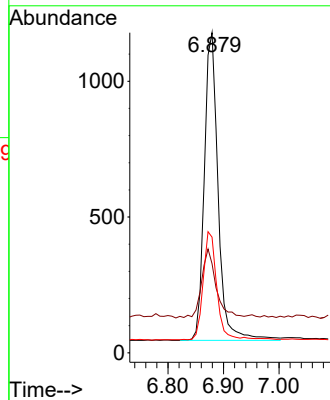
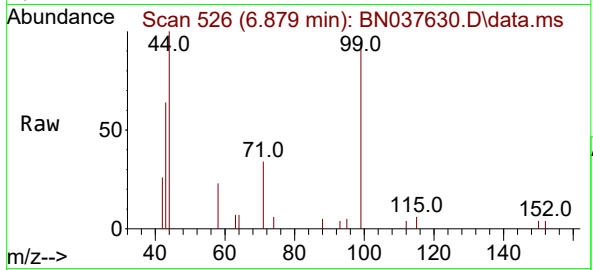




#5  
Phenol-d6  
Concen: 0.301 ng  
RT: 6.879 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

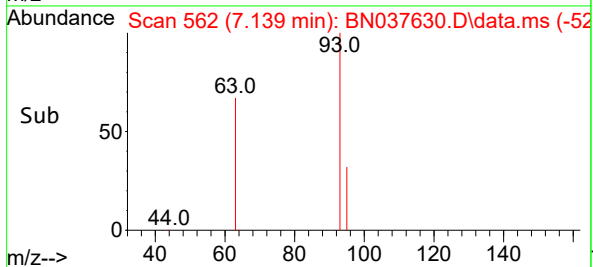
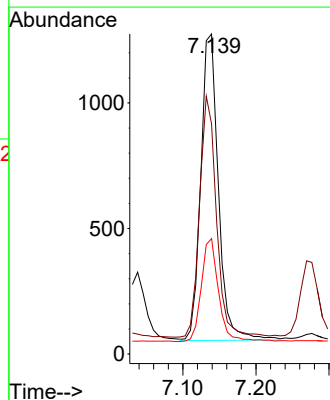
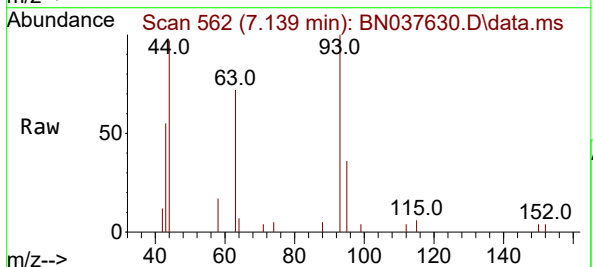
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

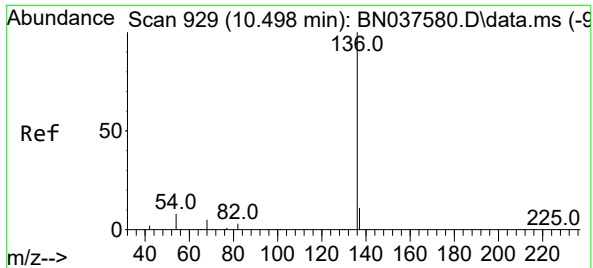
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 23.7  | 18.5  | 27.7  |
| 71      | 34.9  | 28.6  | 42.8  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.347 ng  
RT: 7.139 min Scan# 562  
Delta R.T. 0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 75.7  | 58.0  | 87.0  |
| 95      | 32.9  | 24.9  | 37.3  |

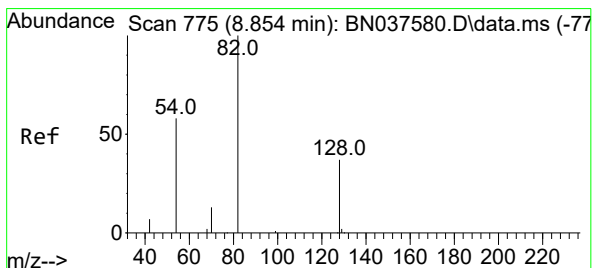
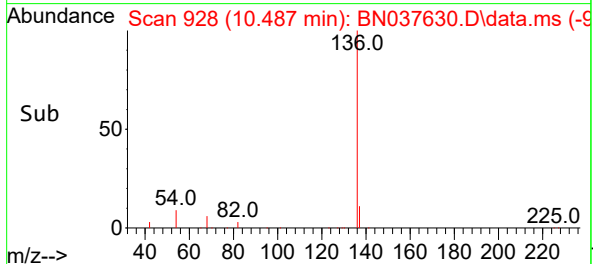
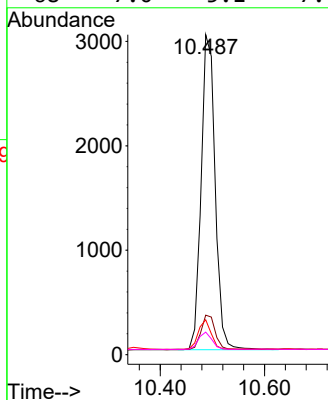
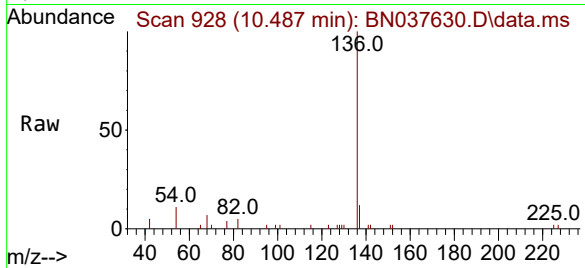




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.487 min Scan# 911  
Delta R.T. -0.011 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

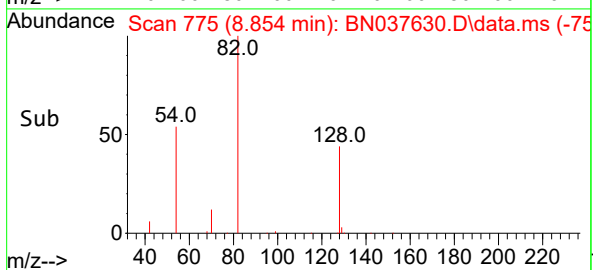
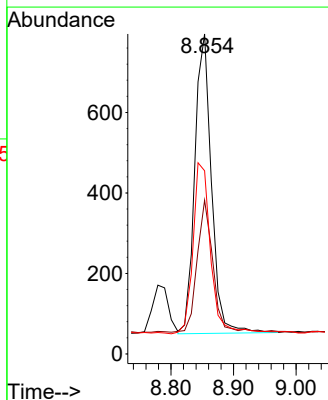
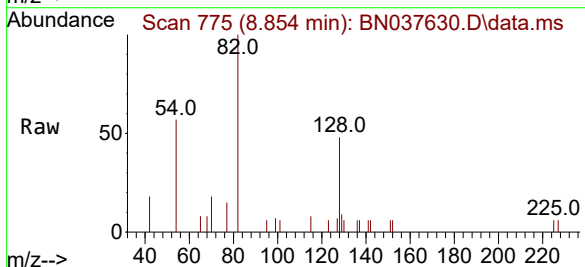
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

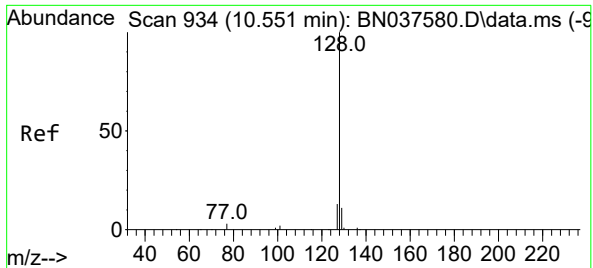
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 5616  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 9.5   | 14.3  |
| 54       | 10.9  | 7.3   | 10.9  |
| 68       | 7.0   | 5.1   | 7.7   |



#8  
Nitrobenzene-d5  
Concen: 0.349 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1380  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 48.1  | 32.6  | 48.8  |
| 54       | 57.2  | 48.9  | 73.3  |

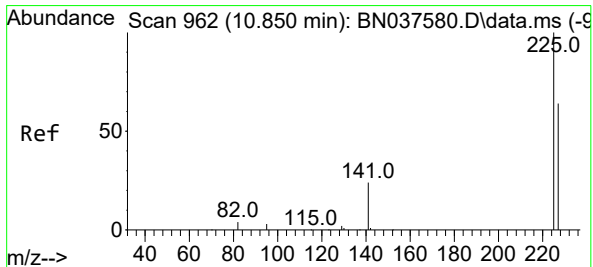
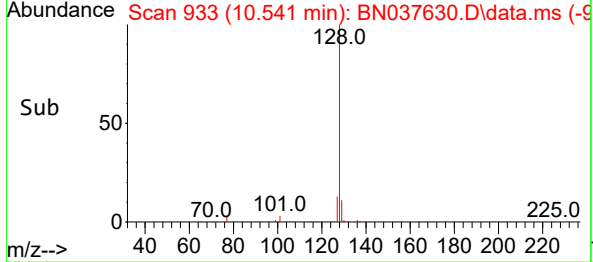
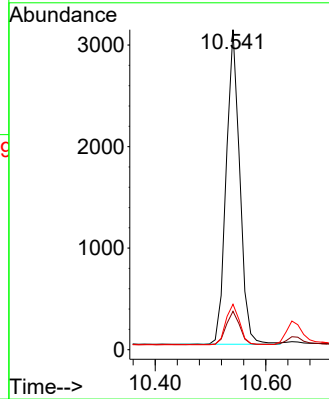
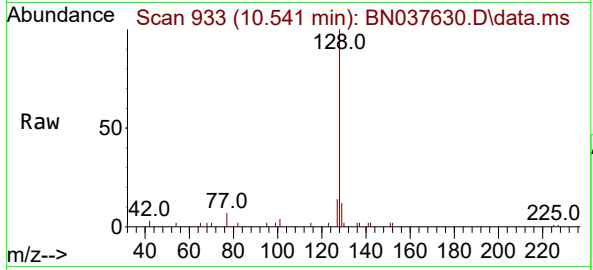




#9  
Naphthalene  
Concen: 0.352 ng  
RT: 10.541 min Scan# 91  
Delta R.T. -0.011 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

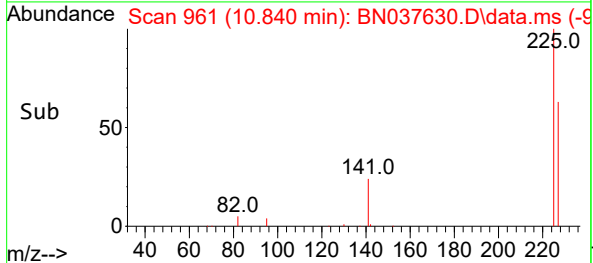
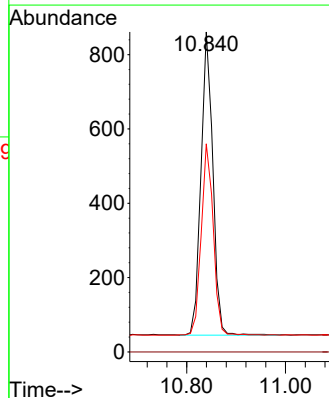
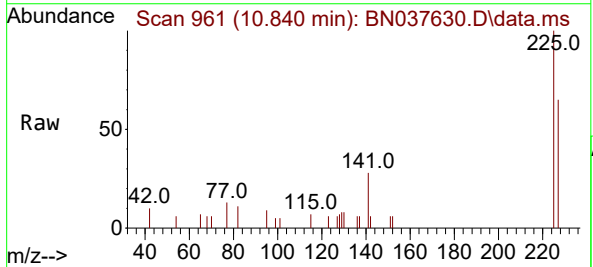
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

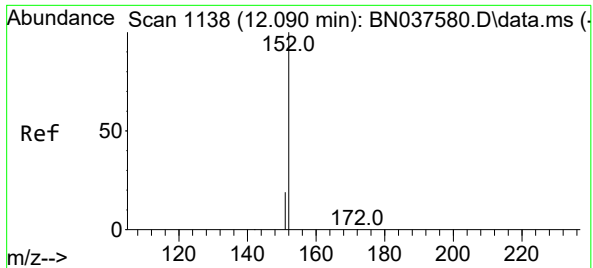
Tgt Ion:128 Resp: 5264  
Ion Ratio Lower Upper  
128 100  
129 12.0 9.8 14.6  
127 14.2 11.5 17.3



#10  
Hexachlorobutadiene  
Concen: 0.371 ng  
RT: 10.840 min Scan# 961  
Delta R.T. -0.011 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

Tgt Ion:225 Resp: 1357  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.0 50.8 76.2

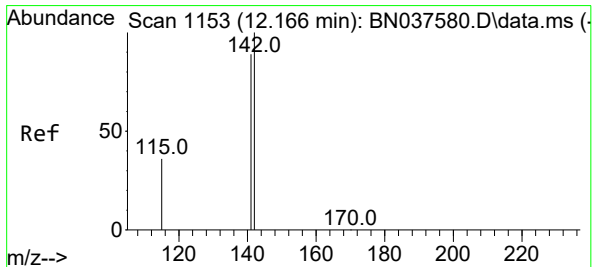
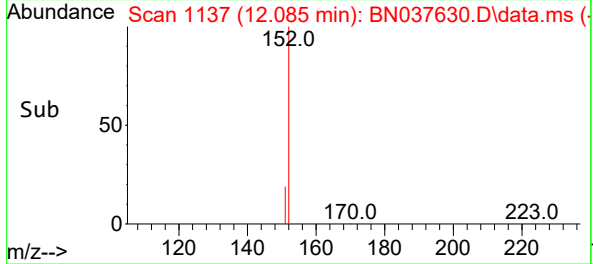
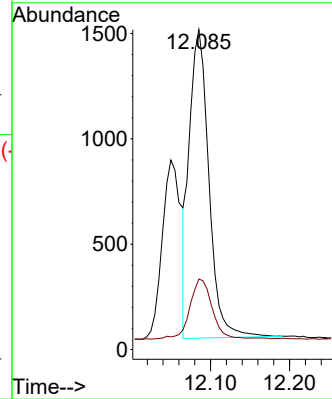
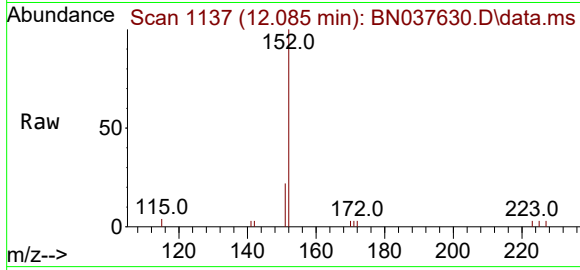




#11  
2-Methylnaphthalene-d10  
Concen: 0.329 ng  
RT: 12.085 min Scan# 1137  
Delta R.T. -0.005 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

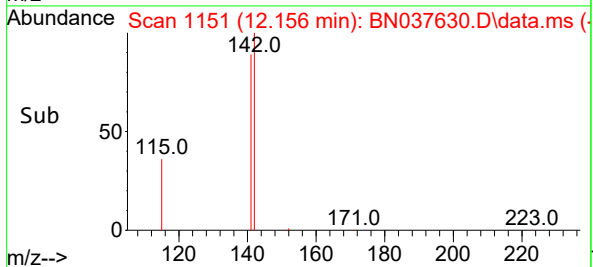
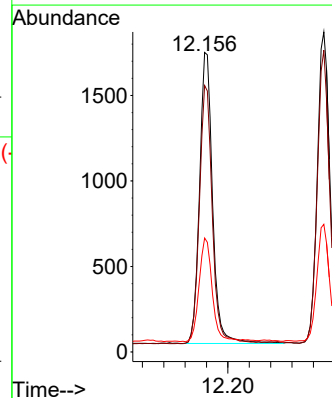
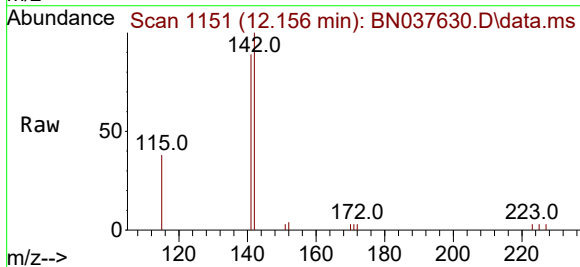
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

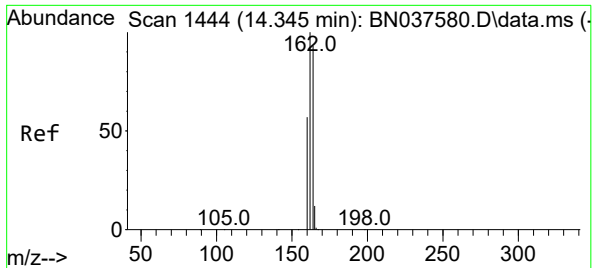
Tgt Ion:152 Resp: 2508  
Ion Ratio Lower Upper  
152 100  
151 22.4 17.3 25.9



#12  
2-Methylnaphthalene  
Concen: 0.308 ng  
RT: 12.156 min Scan# 1151  
Delta R.T. -0.010 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

Tgt Ion:142 Resp: 2891  
Ion Ratio Lower Upper  
142 100  
141 89.0 71.4 107.0  
115 38.0 30.2 45.4

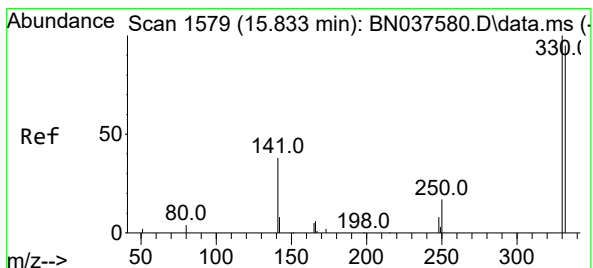
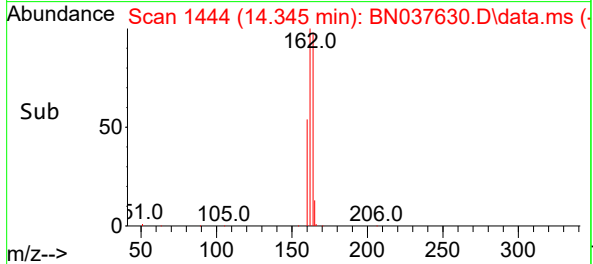
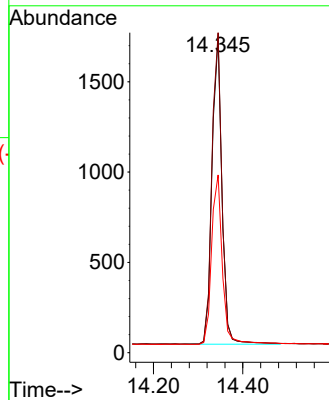
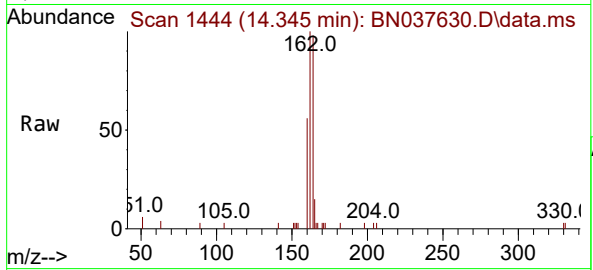




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

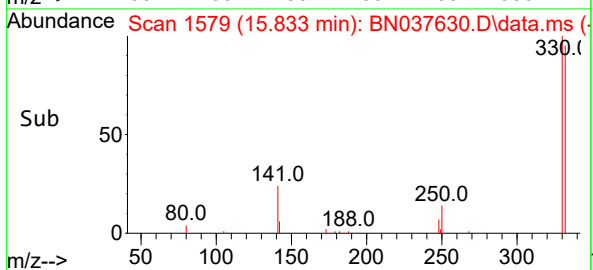
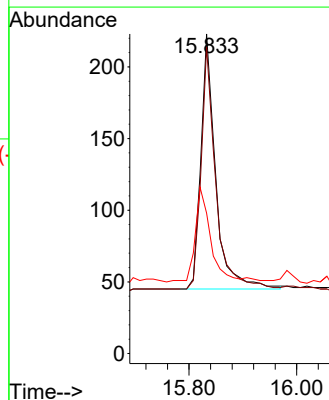
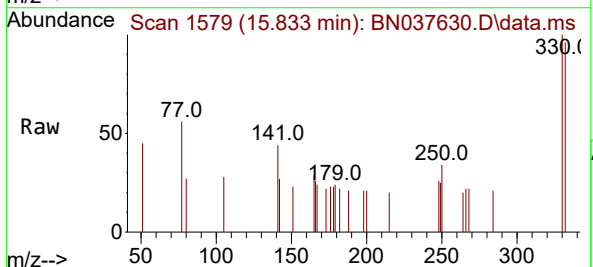
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PB169286BS

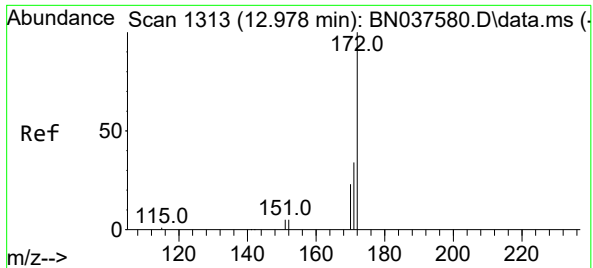
Tgt Ion:164 Resp: 2629  
Ion Ratio Lower Upper  
164 100  
162 101.7 85.5 128.3  
160 56.5 49.5 74.3



#14  
2,4,6-Tribromophenol  
Concen: 0.297 ng  
RT: 15.833 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

Tgt Ion:330 Resp: 342  
Ion Ratio Lower Upper  
330 100  
332 93.3 77.4 116.0  
141 39.5 30.9 46.3

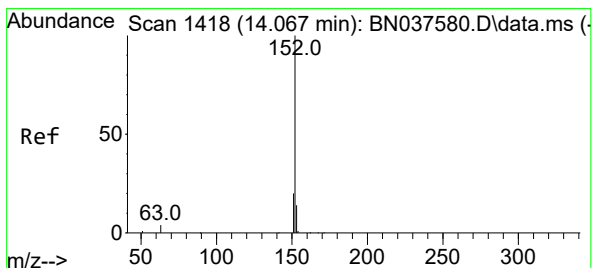
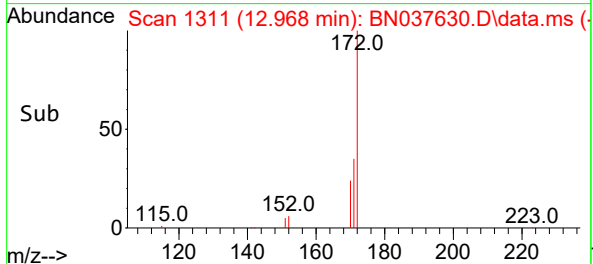
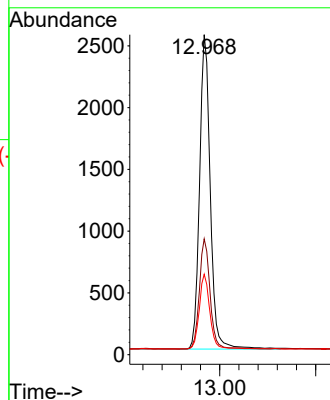
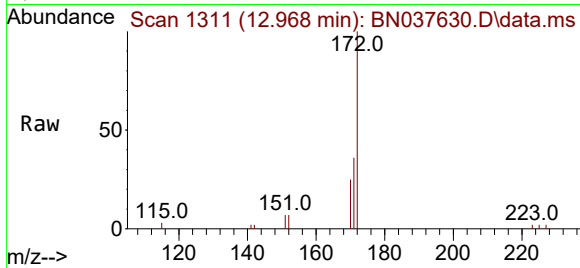




#15  
2-Fluorobiphenyl  
Concen: 0.362 ng  
RT: 12.968 min Scan# 11  
Delta R.T. -0.010 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

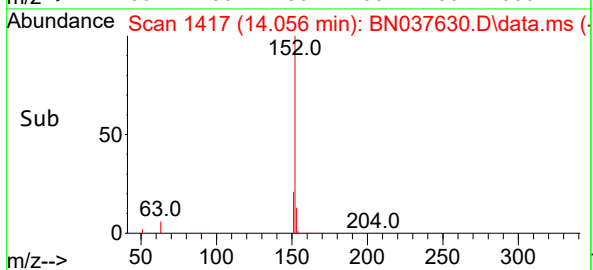
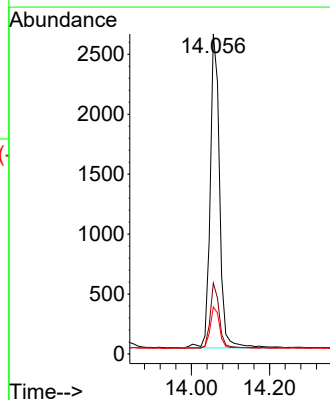
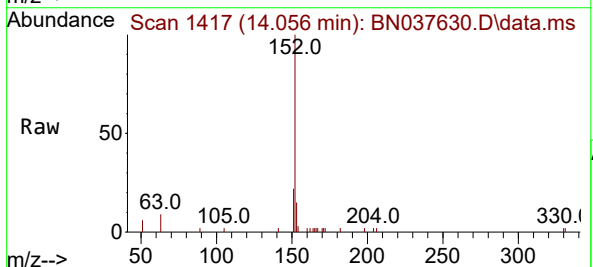
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

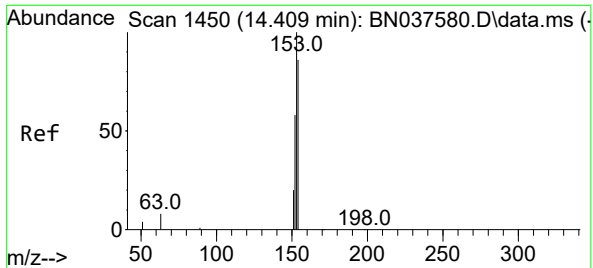
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 5503  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 36.2  | 28.2  | 42.4  |
| 170      | 25.1  | 19.2  | 28.8  |



#16  
Acenaphthylene  
Concen: 0.373 ng  
RT: 14.056 min Scan# 1417  
Delta R.T. -0.011 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 4394  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 19.9  | 16.1  | 24.1  |
| 153      | 13.3  | 10.7  | 16.1  |

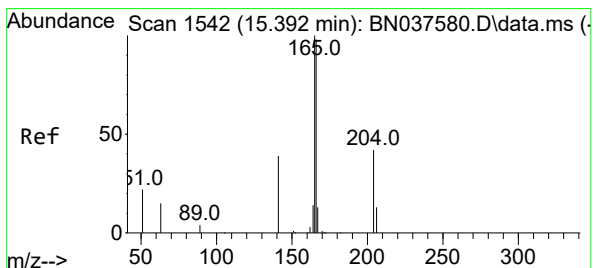
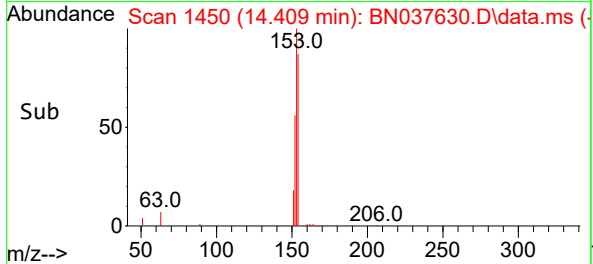
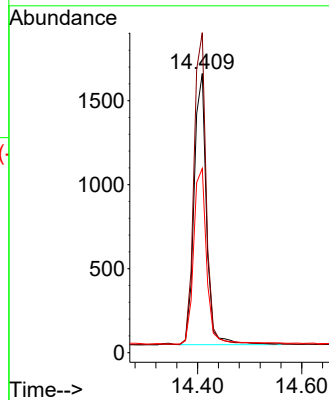
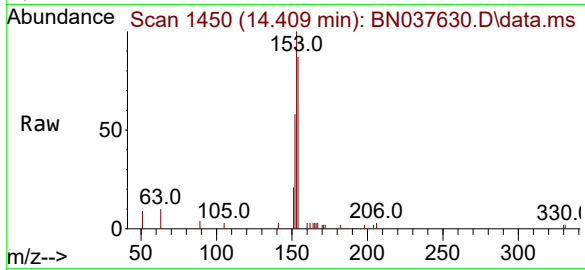




#17  
Acenaphthene  
Concen: 0.332 ng  
RT: 14.409 min Scan# 1450  
Delta R.T. 0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

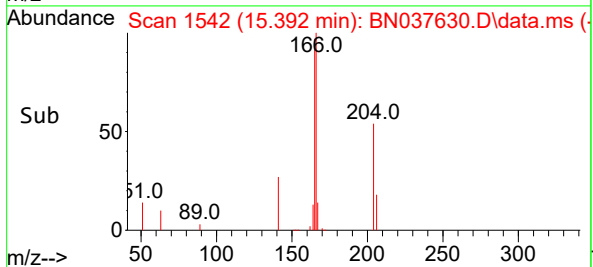
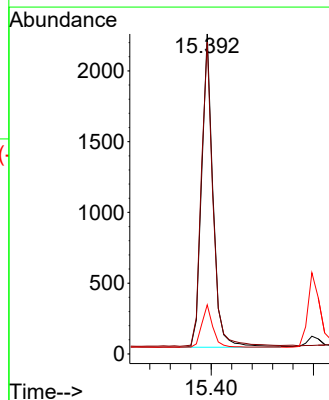
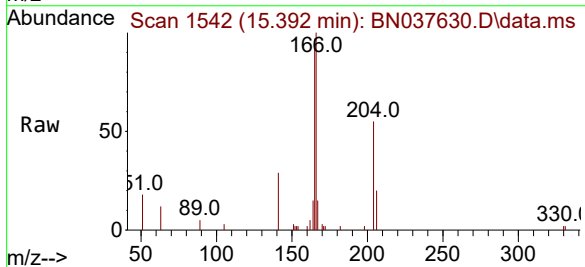
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

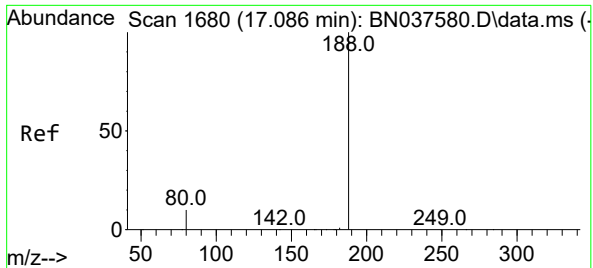
Tgt Ion:154 Resp: 2664  
Ion Ratio Lower Upper  
154 100  
153 114.4 90.6 135.8  
152 68.6 54.9 82.3



#18  
Fluorene  
Concen: 0.331 ng  
RT: 15.392 min Scan# 1542  
Delta R.T. 0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

Tgt Ion:166 Resp: 3473  
Ion Ratio Lower Upper  
166 100  
165 99.2 78.9 118.3  
167 13.1 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

Instrument :

BNA\_N

ClientSampleId :

PB169286BS

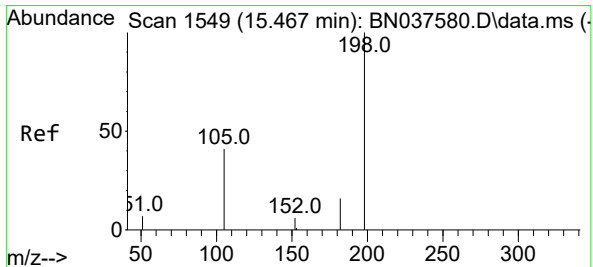
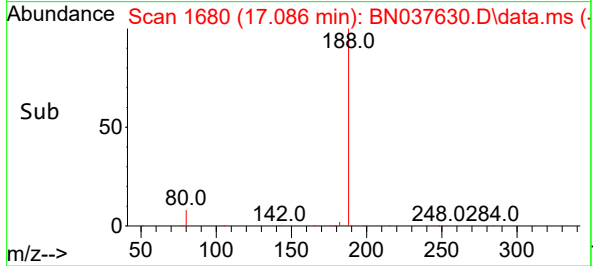
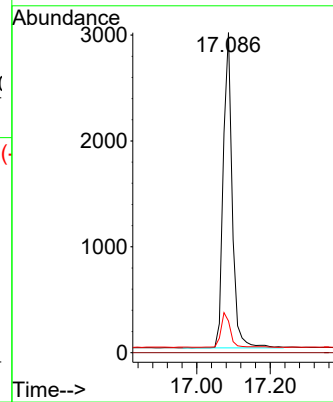
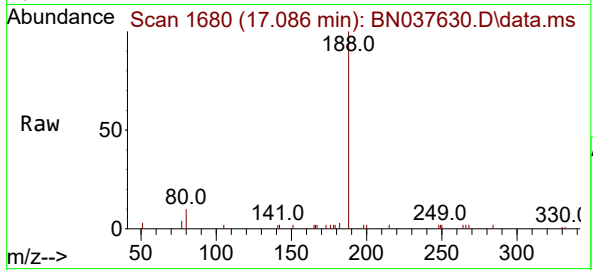
Tgt Ion:188 Resp: 5040

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.9 9.1 13.7



#20

4,6-Dinitro-2-methylphenol

Concen: 0.348 ng

RT: 15.467 min Scan# 1549

Delta R.T. 0.000 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

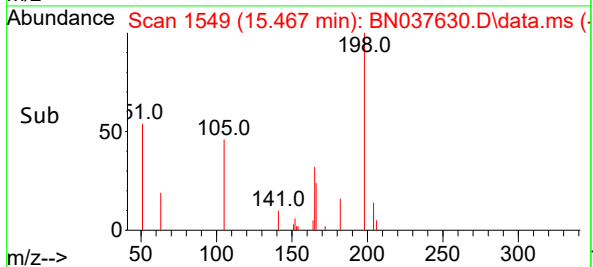
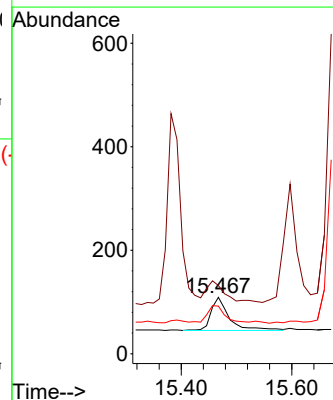
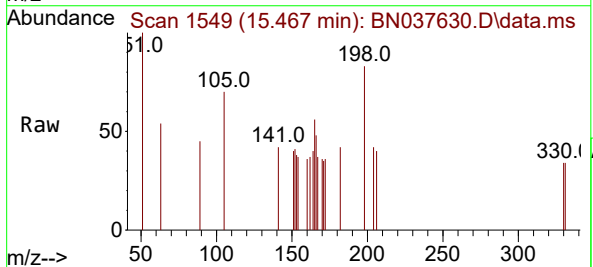
Tgt Ion:198 Resp: 153

Ion Ratio Lower Upper

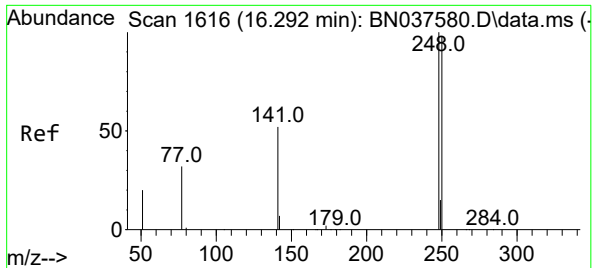
198 100

51 121.1 81.0 121.6

105 84.4 52.5 78.7#



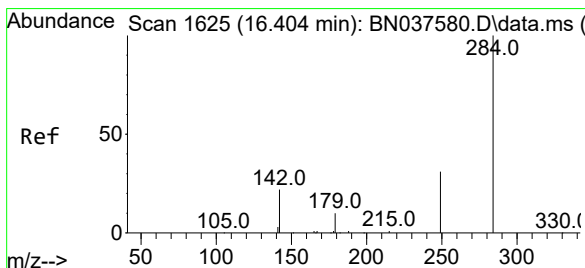
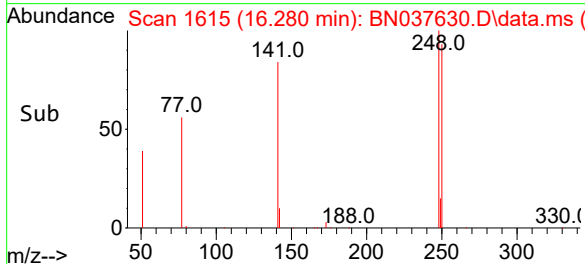
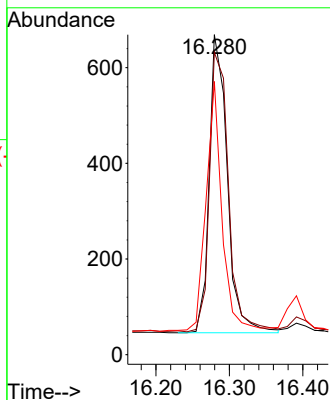
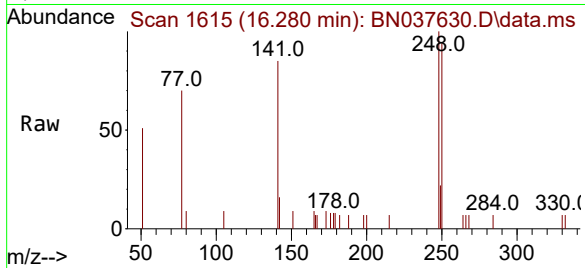




#21  
4-Bromophenyl-phenylether  
Concen: 0.336 ng  
RT: 16.280 min Scan# 1615  
Delta R.T. -0.012 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

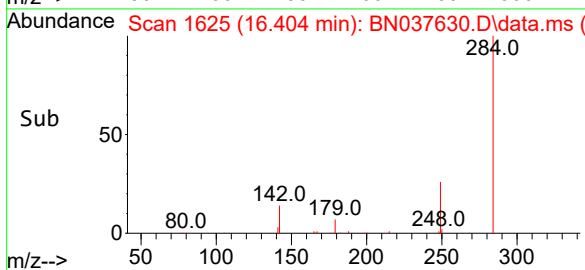
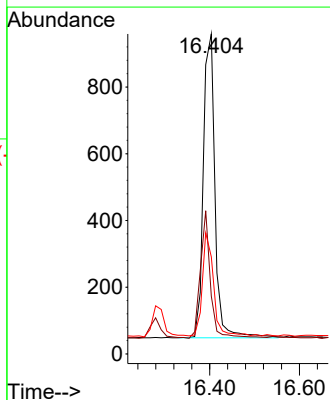
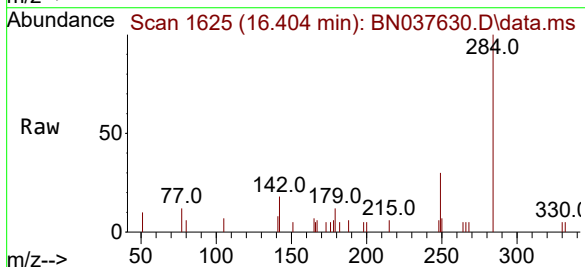
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

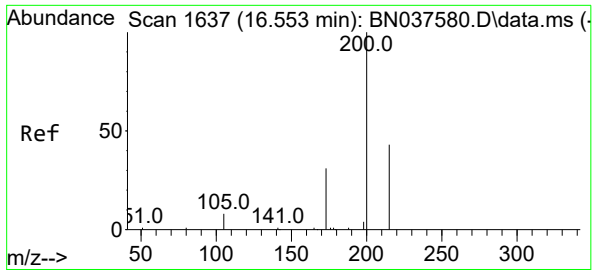
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 94.5  | 78.6  | 118.0 |
| 141     | 85.4  | 43.7  | 65.5  |



#22  
Hexachlorobenzene  
Concen: 0.366 ng  
RT: 16.404 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 35.3  | 29.8  | 44.6  |
| 249     | 32.5  | 26.0  | 39.0  |

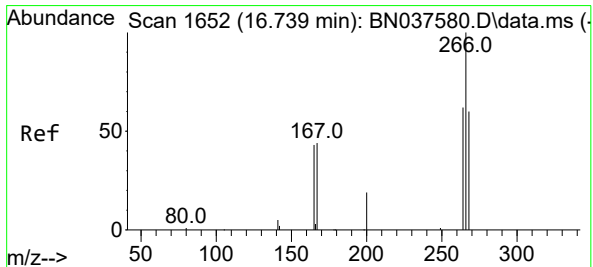
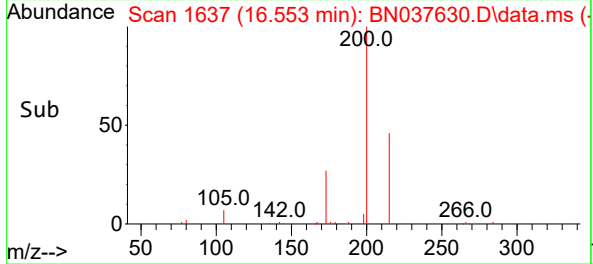
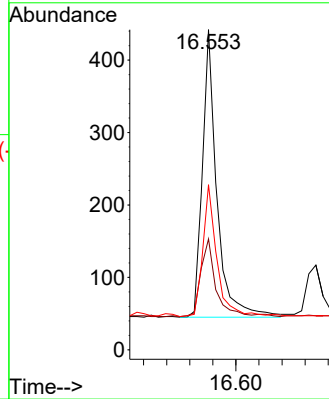
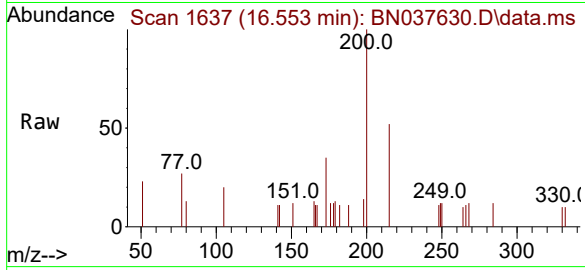




#23  
Atrazine  
Concen: 0.384 ng  
RT: 16.553 min Scan# 1637  
Delta R.T. -0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

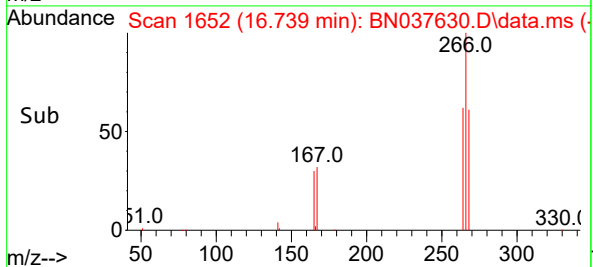
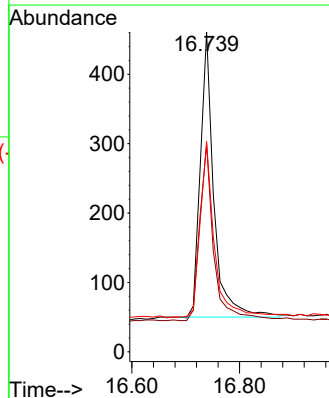
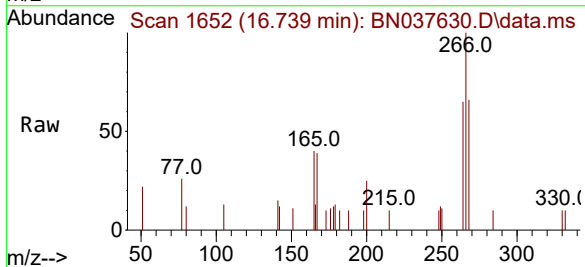
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

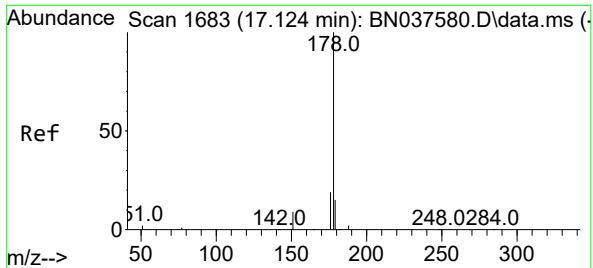
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 34.6  | 31.0  | 46.4  |
| 215     | 51.6  | 39.4  | 59.0  |



#24  
Pentachlorophenol  
Concen: 0.456 ng  
RT: 16.739 min Scan# 1652  
Delta R.T. -0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 64.5  | 49.6  | 74.4  |
| 268     | 65.0  | 49.2  | 73.8  |

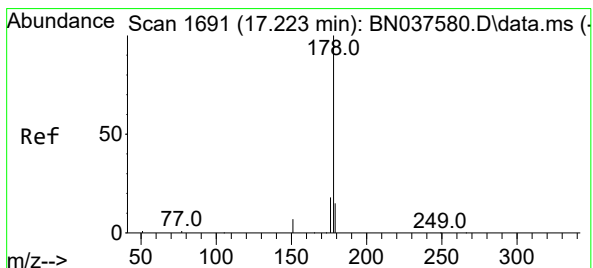
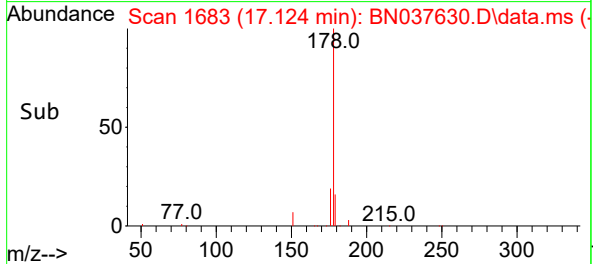
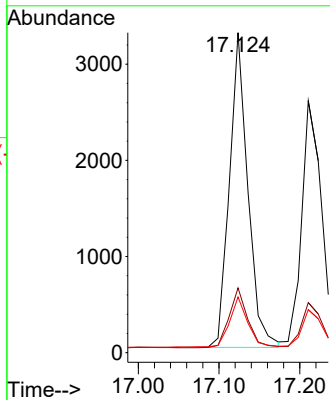
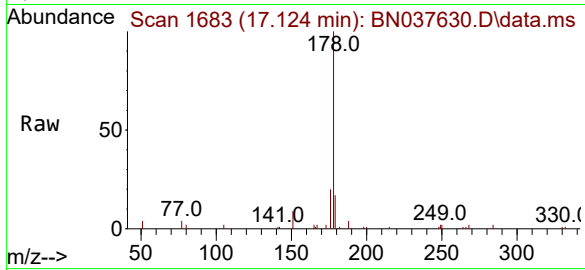




#25  
Phenanthrene  
Concen: 0.338 ng  
RT: 17.124 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

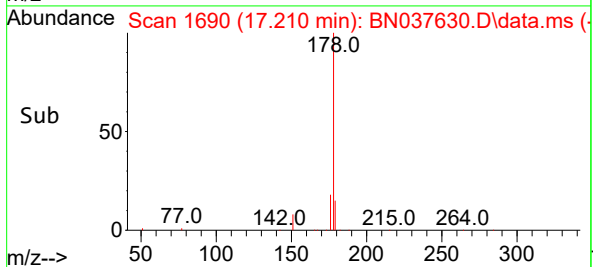
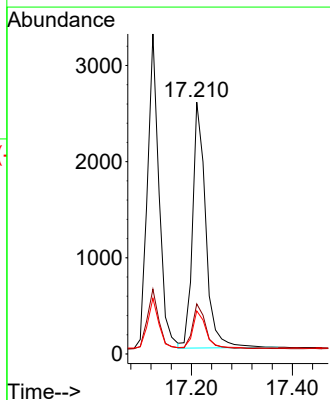
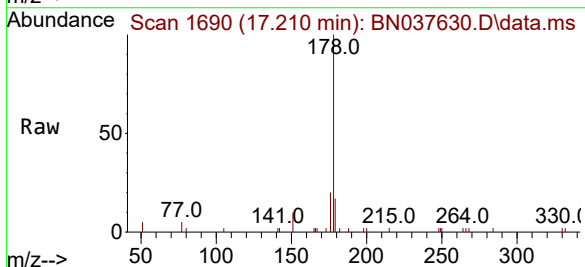
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

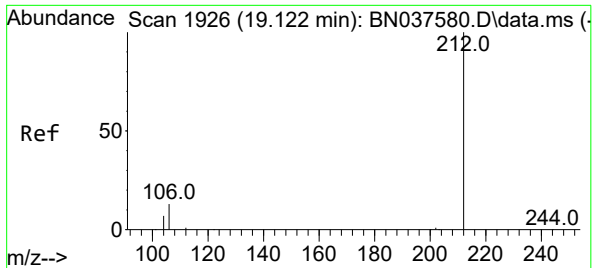
Tgt Ion:178 Resp: 5179  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.0 22.6  
179 15.9 12.3 18.5



#26  
Anthracene  
Concen: 0.342 ng  
RT: 17.210 min Scan# 1690  
Delta R.T. -0.012 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

Tgt Ion:178 Resp: 4635  
Ion Ratio Lower Upper  
178 100  
176 18.2 14.7 22.1  
179 15.3 12.3 18.5

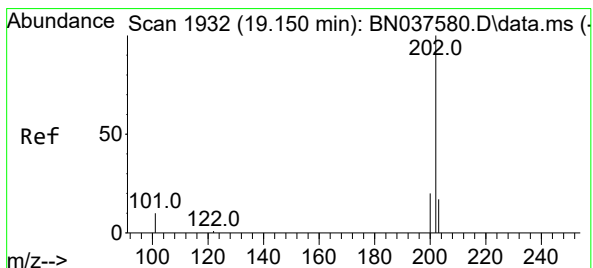
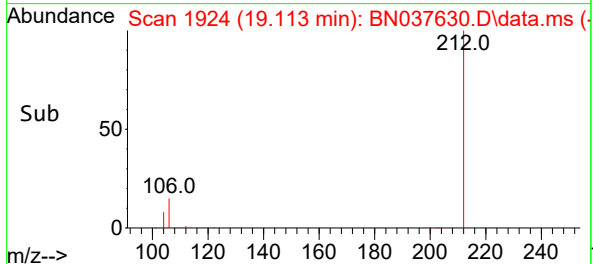
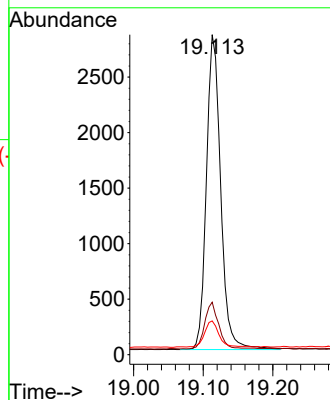
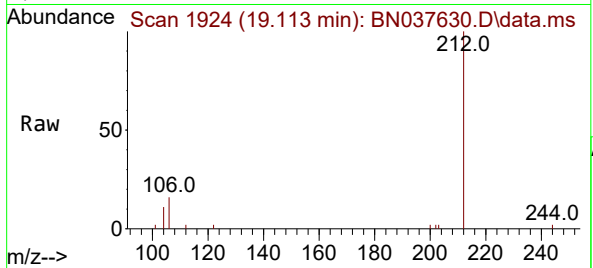




#27  
Fluoranthene-d10  
Concen: 0.305 ng  
RT: 19.113 min Scan# 1924  
Delta R.T. -0.009 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

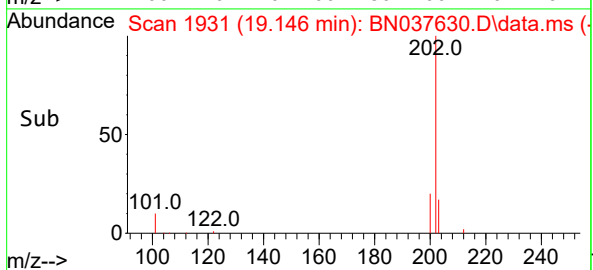
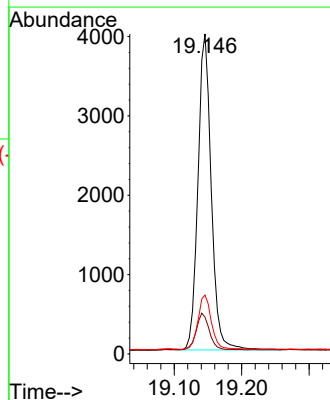
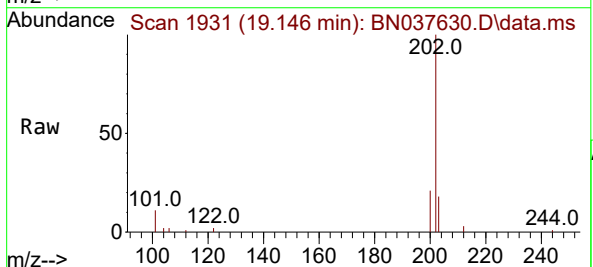
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

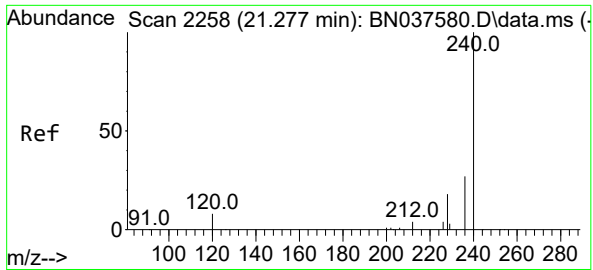
Tgt Ion:212 Resp: 4038  
Ion Ratio Lower Upper  
212 100  
106 14.6 11.5 17.3  
104 8.2 6.6 9.8



#28  
Fluoranthene  
Concen: 0.310 ng  
RT: 19.146 min Scan# 1931  
Delta R.T. -0.005 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

Tgt Ion:202 Resp: 5464  
Ion Ratio Lower Upper  
202 100  
101 11.4 9.0 13.6  
203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

Instrument :

BNA\_N

ClientSampleId :

PB169286BS

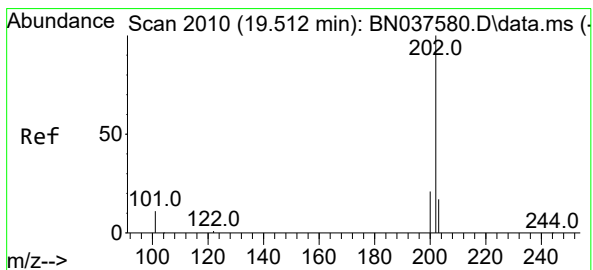
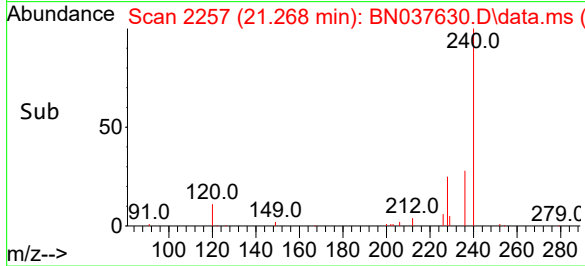
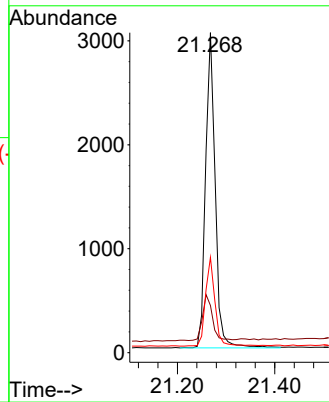
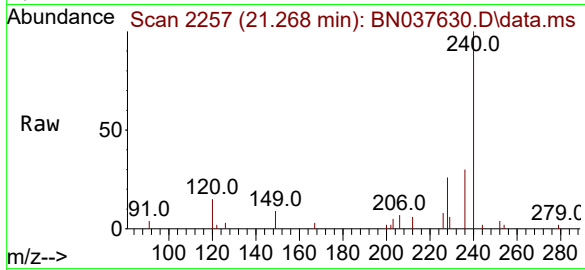
Tgt Ion:240 Resp: 4175

Ion Ratio Lower Upper

240 100

120 14.7 8.9 13.3#

236 29.8 22.6 33.8



#30

Pyrene

Concen: 0.342 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.005 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

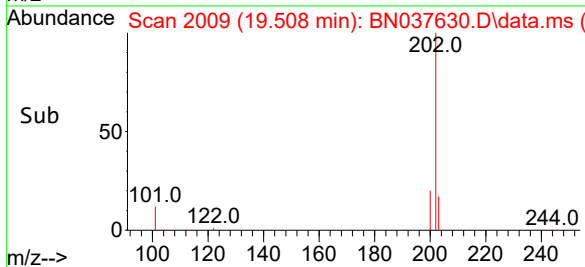
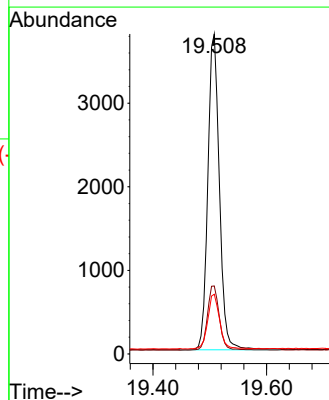
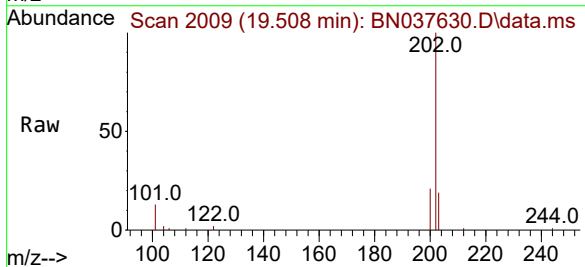
Tgt Ion:202 Resp: 5332

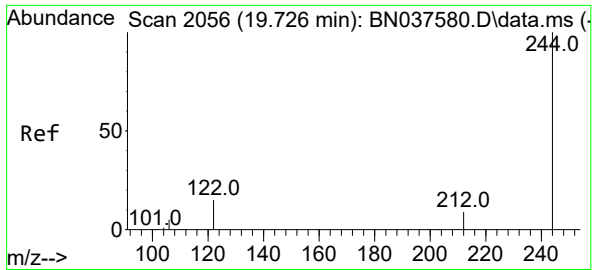
Ion Ratio Lower Upper

202 100

200 20.9 16.6 25.0

203 17.9 14.3 21.5

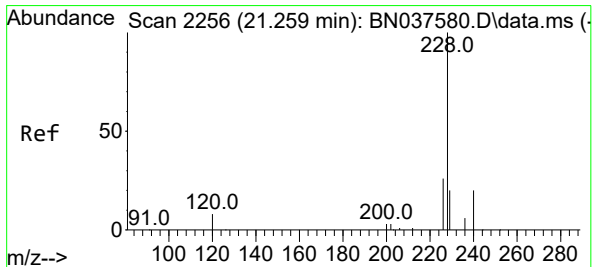
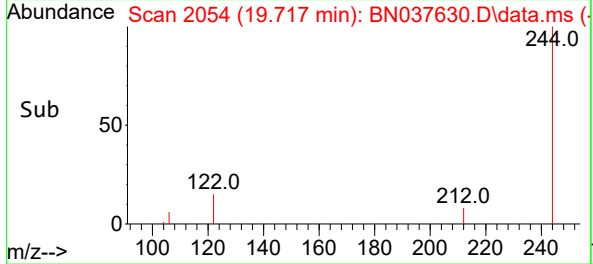
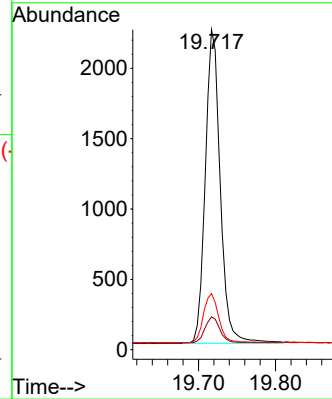
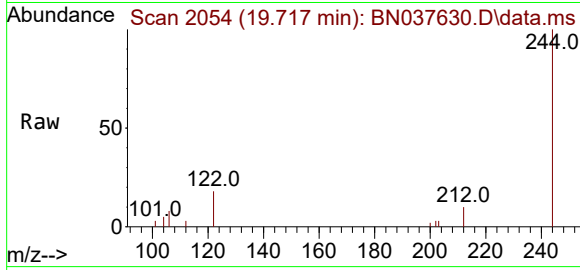




#31  
Terphenyl-d14  
Concen: 0.350 ng  
RT: 19.717 min Scan# 2054  
Delta R.T. -0.009 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

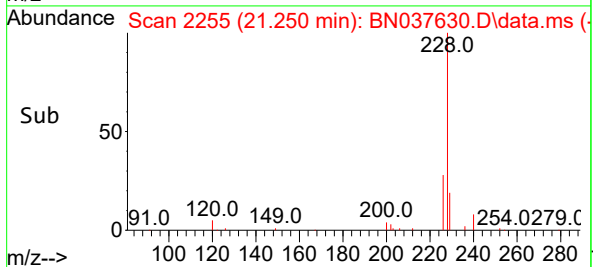
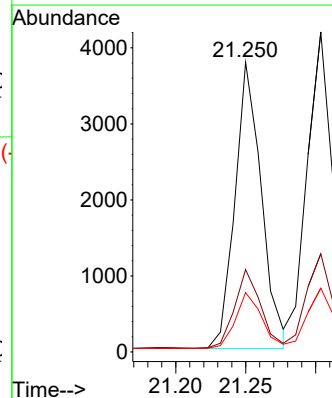
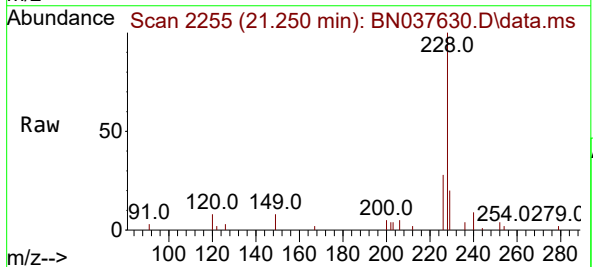
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

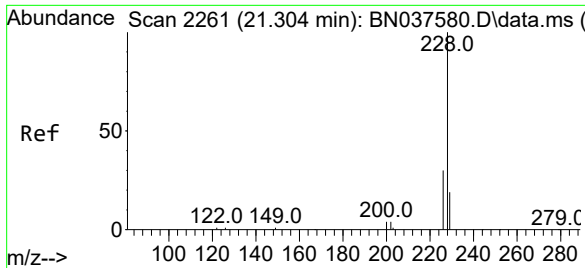
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 10.3  | 8.2   | 12.2  |
| 122     | 17.5  | 13.2  | 19.8  |



#32  
Benzo(a)anthracene  
Concen: 0.355 ng  
RT: 21.250 min Scan# 2255  
Delta R.T. -0.009 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

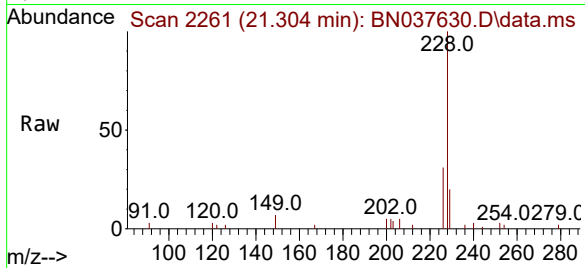
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.5  | 21.5  | 32.3  |
| 229     | 20.5  | 16.5  | 24.7  |



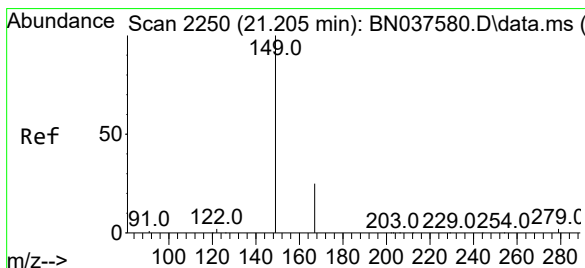
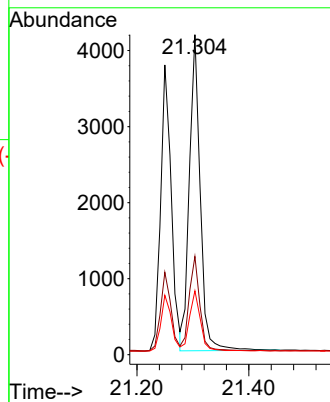
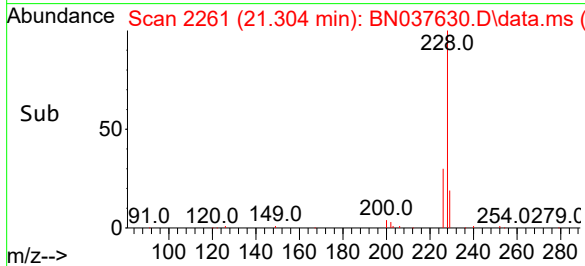


#33  
Chrysene  
Concen: 0.360 ng  
RT: 21.304 min Scan# 211  
Delta R.T. 0.000 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

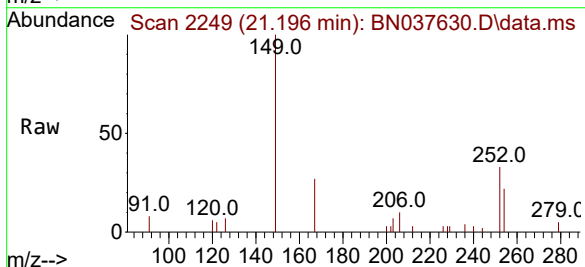
Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS



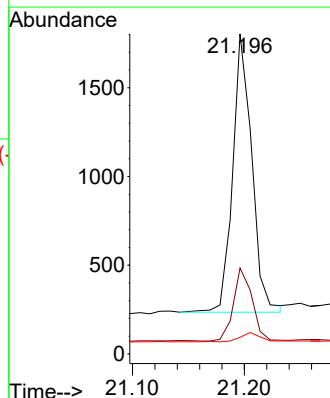
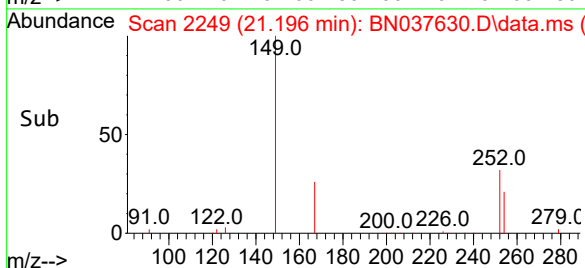
Tgt Ion:228 Resp: 5598  
Ion Ratio Lower Upper  
228 100  
226 30.7 24.9 37.3  
229 20.0 15.8 23.8

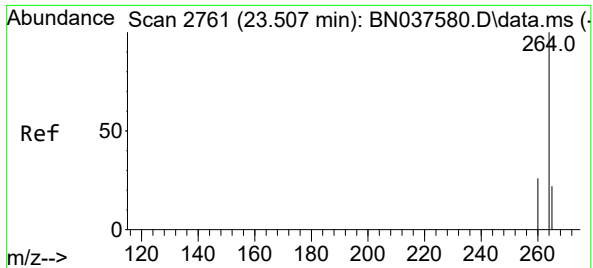


#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.324 ng  
RT: 21.196 min Scan# 2249  
Delta R.T. -0.009 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25



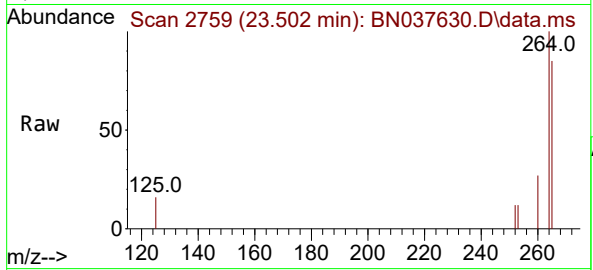
Tgt Ion:149 Resp: 1867  
Ion Ratio Lower Upper  
149 100  
167 25.7 20.5 30.7  
279 3.6 2.6 4.0



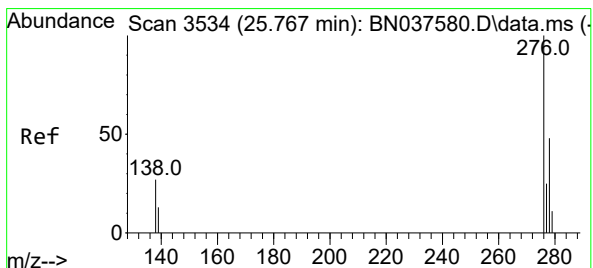
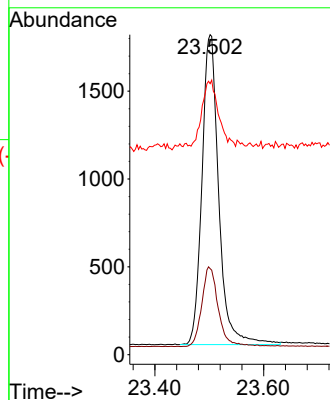


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.502 min Scan# 21  
Delta R.T. -0.006 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

Instrument :  
BNA\_N  
ClientSampleId :  
PB169286BS

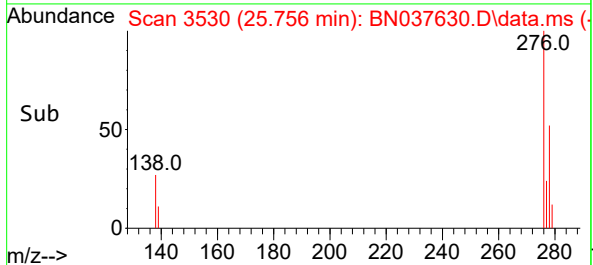
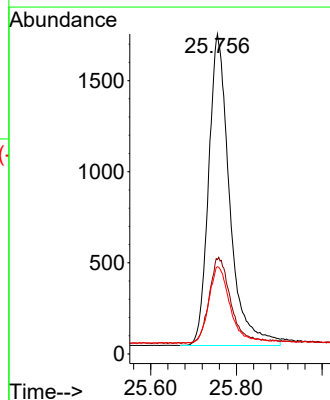
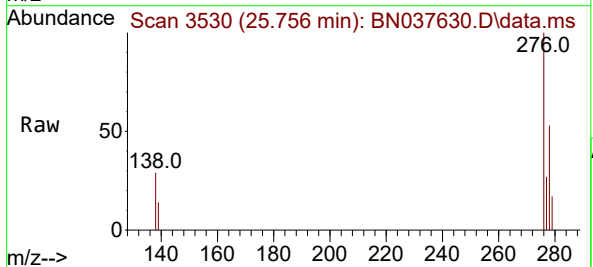


Tgt Ion:264 Resp: 3780  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.6 32.4  
265 84.7 48.2 72.4#

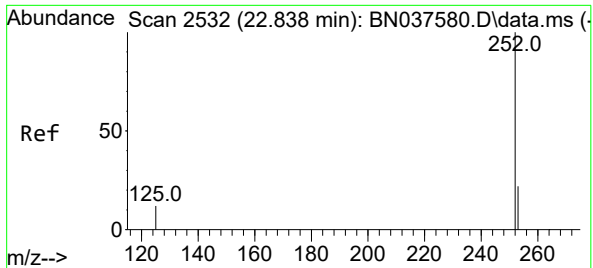


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.365 ng  
RT: 25.756 min Scan# 3530  
Delta R.T. -0.012 min  
Lab File: BN037630.D  
Acq: 20 Aug 2025 11:25

Tgt Ion:276 Resp: 5812  
Ion Ratio Lower Upper  
276 100  
138 27.9 23.3 34.9  
277 24.4 19.5 29.3







#37

Benzo(b)fluoranthene

Concen: 0.372 ng

RT: 22.829 min Scan# 2532

Delta R.T. -0.009 min

Lab File: BN037630.D

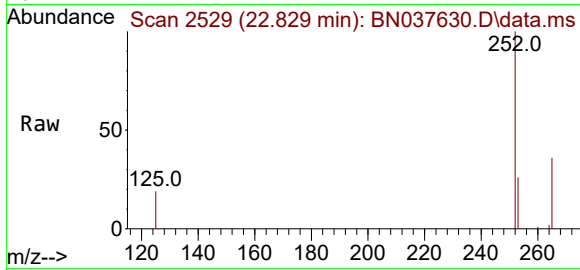
Acq: 20 Aug 2025 11:25

Instrument :

BNA\_N

ClientSampleId :

PB169286BS



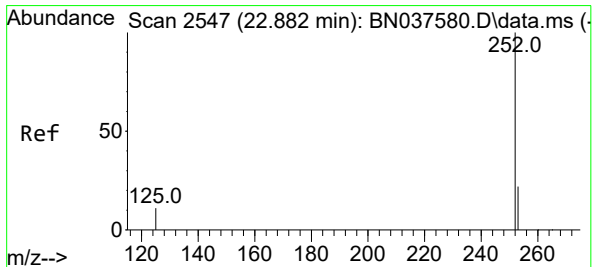
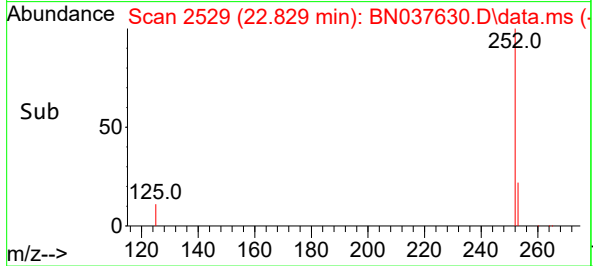
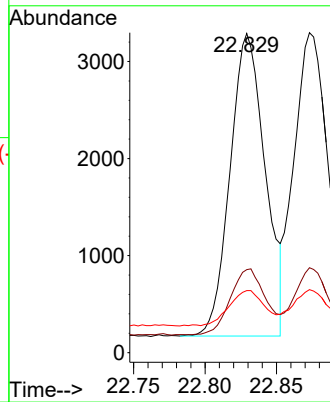
Tgt Ion:252 Resp: 5325

Ion Ratio Lower Upper

252 100

253 26.0 20.0 30.0

125 19.4 13.8 20.6



#38

Benzo(k)fluoranthene

Concen: 0.335 ng

RT: 22.873 min Scan# 2544

Delta R.T. -0.009 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

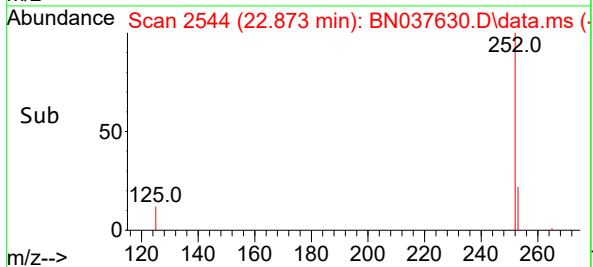
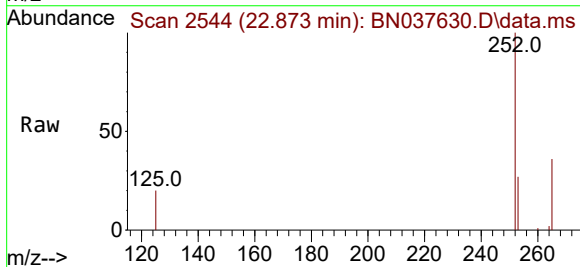
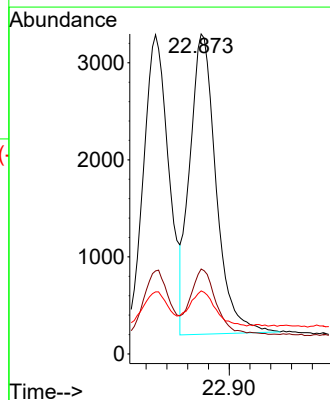
Tgt Ion:252 Resp: 5420

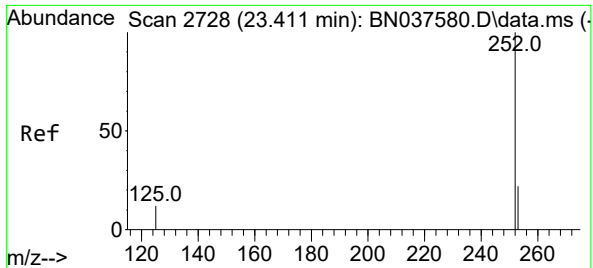
Ion Ratio Lower Upper

252 100

253 26.5 19.9 29.9

125 19.7 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.378 ng

RT: 23.402 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

Instrument :

BNA\_N

ClientSampleId :

PB169286BS

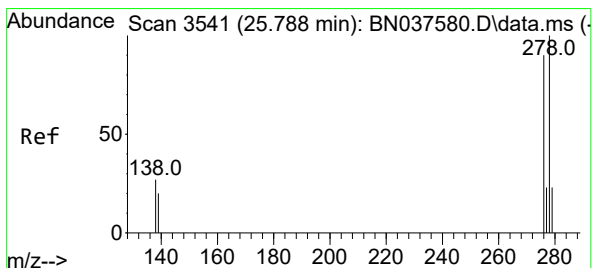
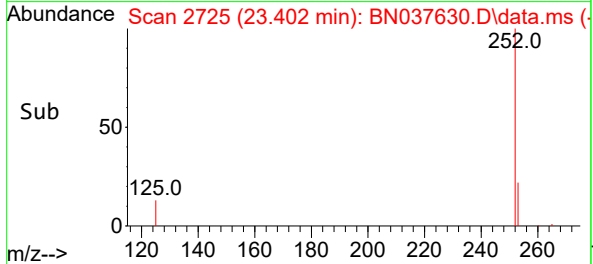
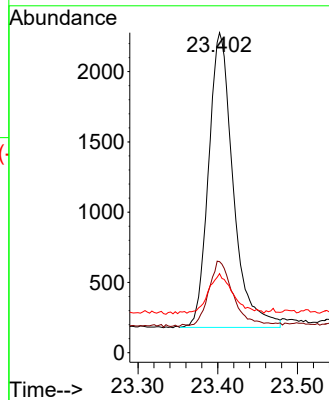
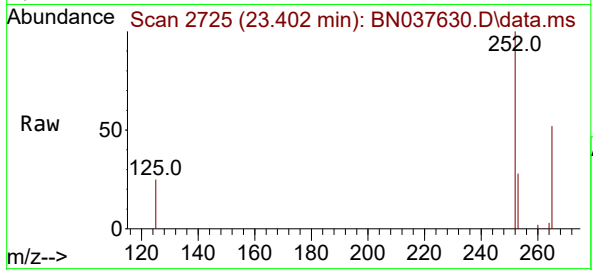
Tgt Ion:252 Resp: 4490

Ion Ratio Lower Upper

252 100

253 28.5 21.6 32.4

125 24.7 16.8 25.2



#40

Dibenzo(a,h)anthracene

Concen: 0.360 ng

RT: 25.776 min Scan# 3537

Delta R.T. -0.012 min

Lab File: BN037630.D

Acq: 20 Aug 2025 11:25

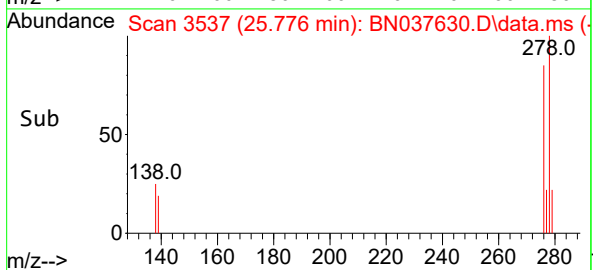
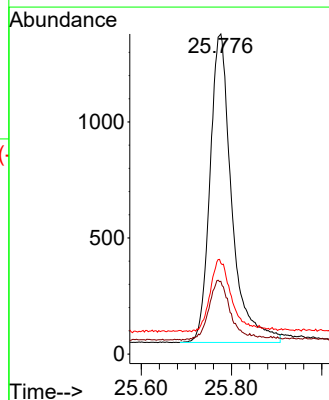
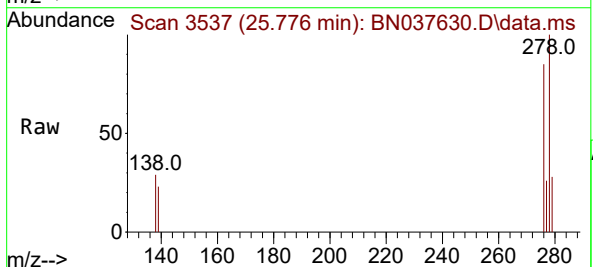
Tgt Ion:278 Resp: 4445

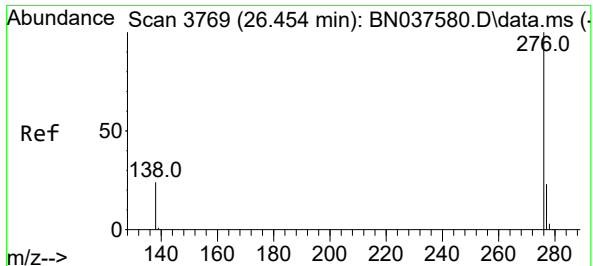
Ion Ratio Lower Upper

278 100

139 22.7 18.3 27.5

279 28.4 22.5 33.7





#41

Benzo(g,h,i)perylene

Concen: 0.395 ng

RT: 26.440 min Scan# 31

Delta R.T. -0.015 min

Lab File: BN037630.D

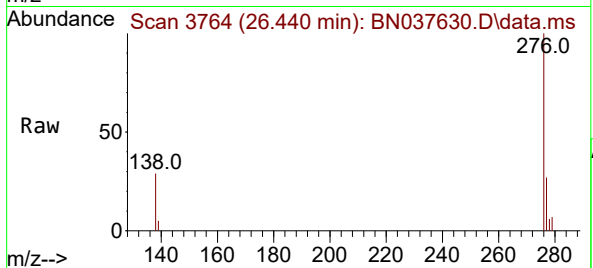
Acq: 20 Aug 2025 11:25

Instrument :

BNA\_N

ClientSampleId :

PB169286BS



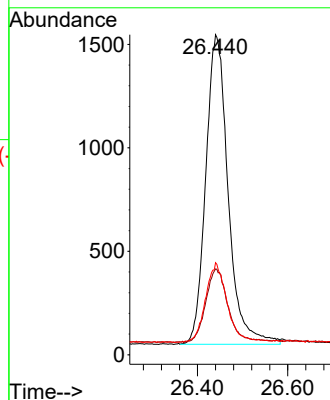
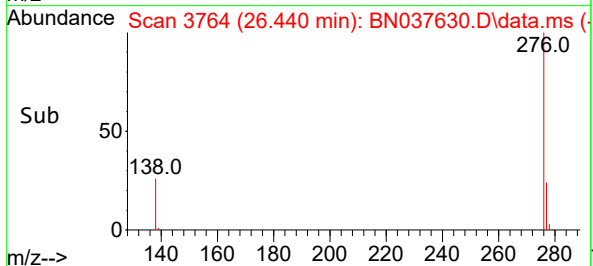
Tgt Ion:276 Resp: 5149

Ion Ratio Lower Upper

276 100

277 26.8 21.0 31.4

138 28.8 21.7 32.5



## Report of Analysis

|                    |                                           |                 |                |
|--------------------|-------------------------------------------|-----------------|----------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: | 08/12/25       |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  | 08/12/25       |
| Client Sample ID:  | MW-17B-55.5-081225MS                      | SDG No.:        | Q2842          |
| Lab Sample ID:     | Q2842-04MS                                | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                                | % Solid:        | 0              |
| Sample Wt/Vol:     | 940 Units: mL                             | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  | uL                                        | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted : N                              | Level :         | LOW            |
| Injection Volume : | GPC Factor : 1.0                          | GPC Cleanup :   | N PH :         |
| Prep Method :      |                                           |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037605.D        | 1         | 08/18/25 08:41 | 08/19/25 13:40 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |                     |            |          |
| 123-91-1                  | 1,4-Dioxane             | 3.00  |           | 0.070               | 0.21       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |                     |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.31  |           | 30 (20) - 150 (139) | 77%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.38  |           | 30 (54) - 150 (157) | 94%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.33  |           | 30 (27) - 130 (154) | 83%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.32  |           | 30 (30) - 130 (155) | 81%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.47  |           | 30 (54) - 130 (175) | 117%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |                     |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2020  | 7.717     |                     |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4770  | 10.498    |                     |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2380  | 14.345    |                     |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 4920  | 17.087    |                     |            |          |
| 1719-03-5                 | Chrysene-d12            | 4510  | 21.268    |                     |            |          |
| 1520-96-3                 | Perylene-d12            | 3910  | 23.505    |                     |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037605.D  
 Acq On : 19 Aug 2025 13:40  
 Operator : RC/JU  
 Sample : Q2842-04MS  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-17B-55.5-081225MS

Manual Integrations  
**APPROVED**

Reviewed By :Rahul Chavli 08/20/2025  
 Supervised By :Jagrut Upadhyay 08/20/2025

Quant Time: Aug 20 01:25:45 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 2023     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 4765     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.345 | 164  | 2380     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.087 | 188  | 4922     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.268 | 240  | 4507     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.505 | 264  | 3909     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.305  | 112  | 698      | 0.152 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 508      | 0.092 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.854  | 82   | 1111     | 0.331 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.086 | 152  | 2001m    | 0.309 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.833 | 330  | 392      | 0.376 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 4453     | 0.324 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.118 | 212  | 4870     | 0.376 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.722 | 244  | 4344     | 0.468 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 5476     | 2.829 | ng    | # 90     |
| 3) n-Nitrosodimethylamine     | 3.536  | 42   | 418      | 0.169 | ng    | # 90     |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 1634     | 0.329 | ng    | 98       |
| 9) Naphthalene                | 10.541 | 128  | 4254     | 0.335 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.840 | 225  | 924      | 0.298 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.162 | 142  | 2421     | 0.304 | ng    | 99       |
| 16) Acenaphthylene            | 14.067 | 152  | 3870     | 0.363 | ng    | 100      |
| 17) Acenaphthene              | 14.409 | 154  | 2473     | 0.341 | ng    | 96       |
| 18) Fluorene                  | 15.393 | 166  | 3340     | 0.352 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.467 | 198  | 226      | 0.434 | ng    | 88       |
| 21) 4-Bromophenyl-phenylether | 16.280 | 248  | 1089     | 0.352 | ng    | # 75     |
| 22) Hexachlorobenzene         | 16.404 | 284  | 1490     | 0.340 | ng    | 99       |
| 23) Atrazine                  | 16.553 | 200  | 797      | 0.456 | ng    | 95       |
| 24) Pentachlorophenol         | 16.739 | 266  | 1320     | 0.857 | ng    | 99       |
| 25) Phenanthrene              | 17.124 | 178  | 6725     | 0.449 | ng    | 100      |
| 26) Anthracene                | 17.211 | 178  | 5205     | 0.393 | ng    | 100      |
| 28) Fluoranthene              | 19.146 | 202  | 7212     | 0.420 | ng    | 100      |
| 30) Pyrene                    | 19.508 | 202  | 6994     | 0.415 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.259 | 228  | 6028     | 0.400 | ng    | 99       |
| 33) Chrysene                  | 21.304 | 228  | 6700     | 0.399 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 3417     | 0.550 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.759 | 276  | 6122     | 0.372 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 22.832 | 252  | 6094     | 0.411 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 22.876 | 252  | 6247     | 0.374 | ng    | 98       |
| 39) Benzo(a)pyrene            | 23.405 | 252  | 5054     | 0.411 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.779 | 278  | 4709     | 0.368 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 26.449 | 276  | 5269     | 0.391 | ng    | 100      |

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

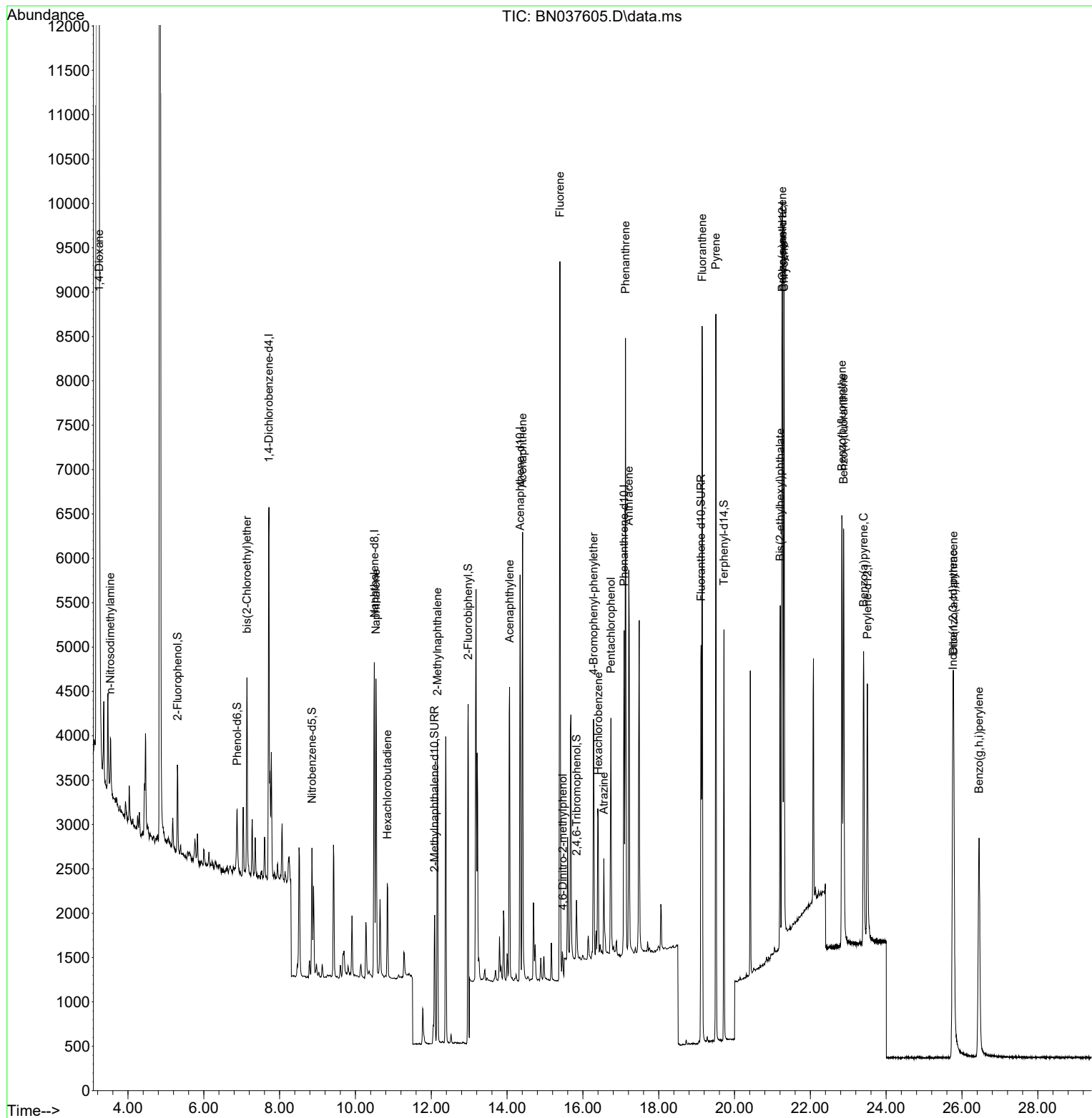
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037605.D  
 Acq On : 19 Aug 2025 13:40  
 Operator : RC/JU  
 Sample : Q2842-04MS  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

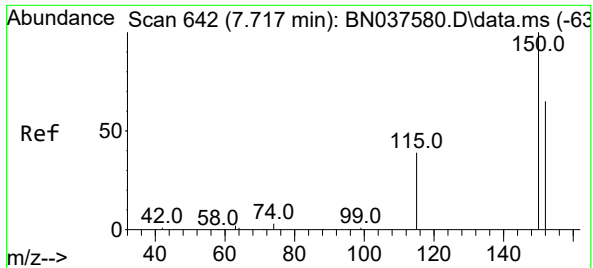
Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-17B-55.5-081225MS

### Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/20/2025  
 Supervised By :Jagrut Upadhyay 08/20/2025

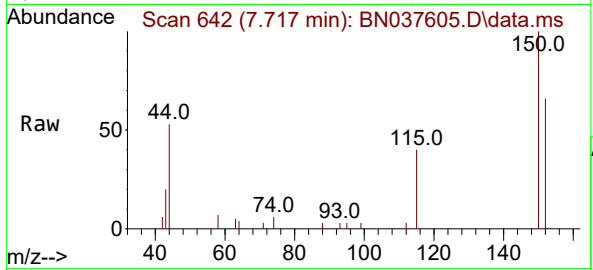
Quant Time: Aug 20 01:25:45 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 642  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

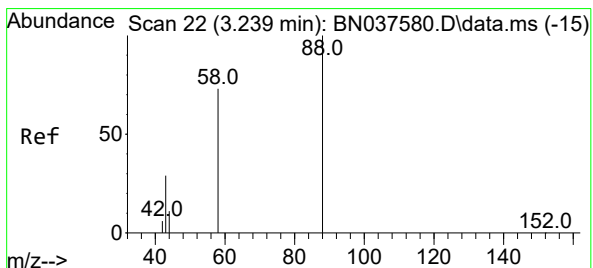
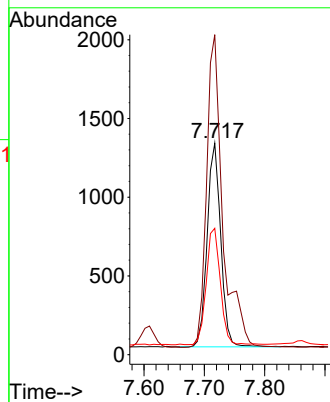
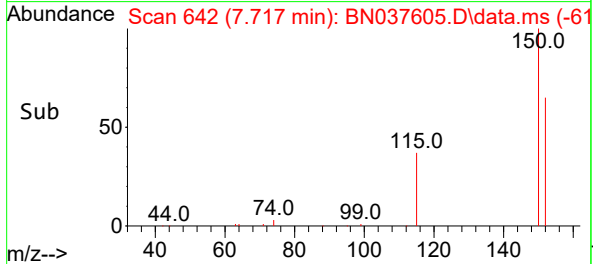
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion: 152 Resp: 2023  
Ion Ratio Lower Upper  
152 100  
150 151.3 122.2 183.4  
115 59.8 49.8 74.6

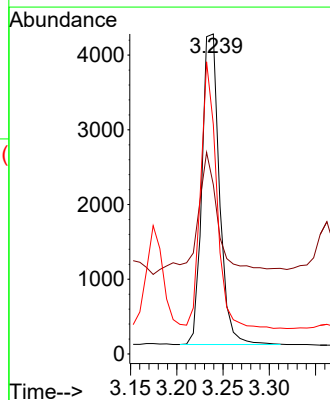
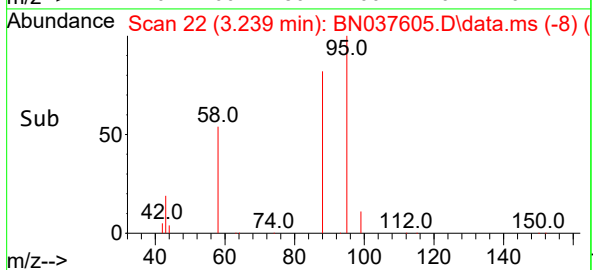
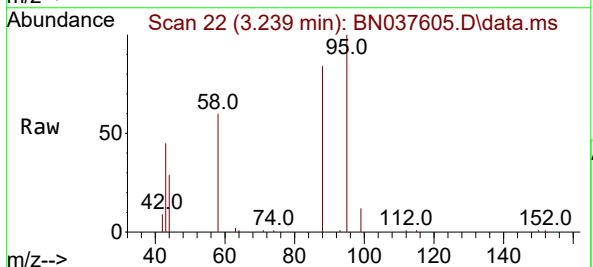
Manual Integrations  
APPROVED

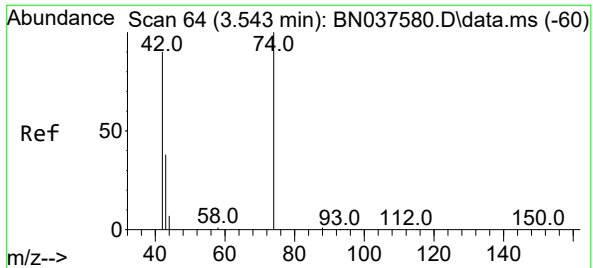
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#2  
1,4-Dioxane  
Concen: 2.829 ng  
RT: 3.239 min Scan# 22  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

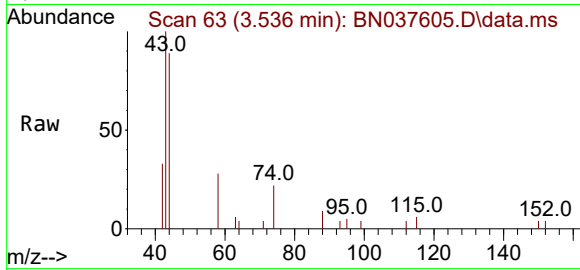
Tgt Ion: 88 Resp: 5476  
Ion Ratio Lower Upper  
88 100  
43 48.7 25.8 38.6#  
58 78.4 61.2 91.8





#3  
n-Nitrosodimethylamine  
Concen: 0.169 ng  
RT: 3.536 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

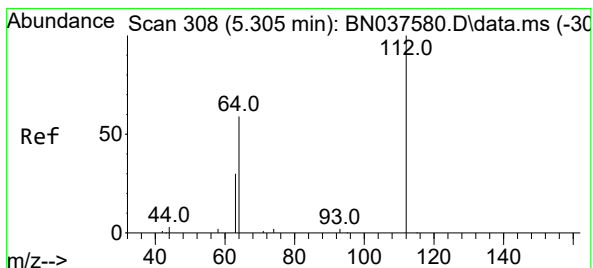
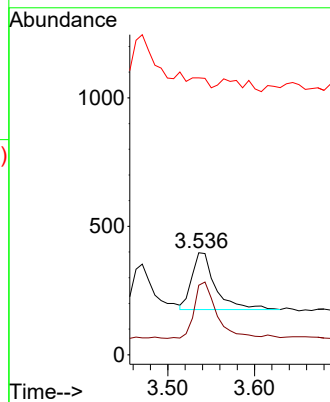
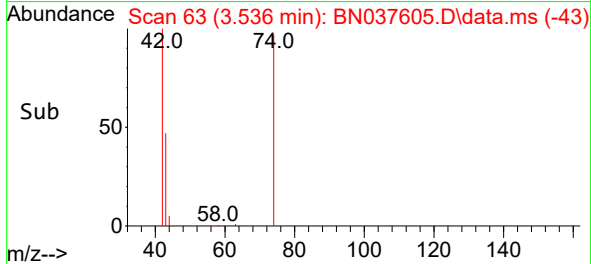
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion: 42 Resp: 418  
Ion Ratio Lower Upper  
42 100  
74 94.0 82.0 123.0  
44 0.0 7.9 11.9

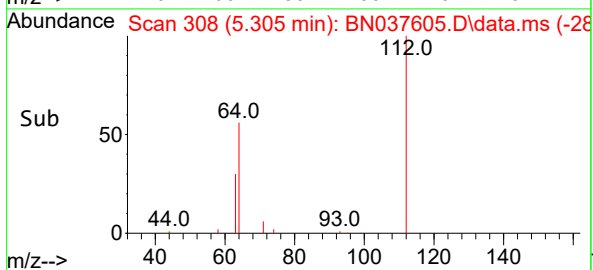
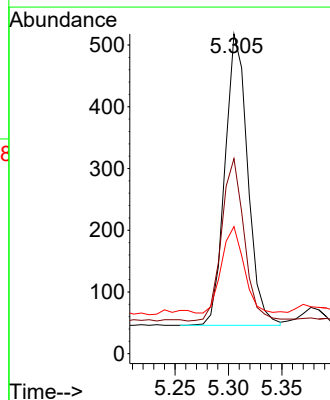
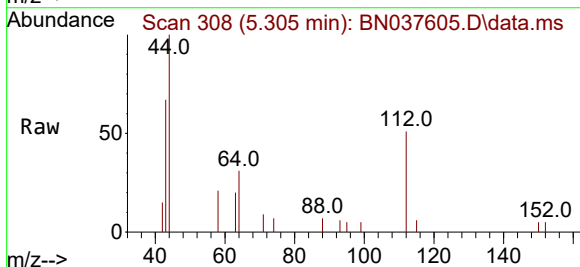
Manual Integrations  
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Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025

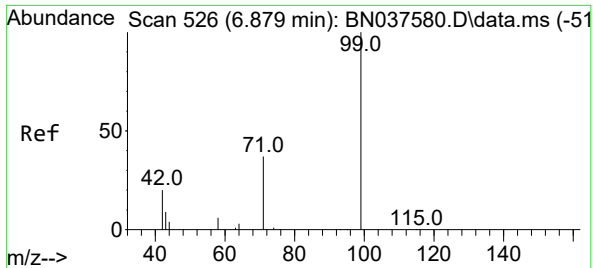


#4  
2-Fluorophenol  
Concen: 0.152 ng  
RT: 5.305 min Scan# 308  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

Tgt Ion:112 Resp: 698  
Ion Ratio Lower Upper  
112 100  
64 55.6 44.9 67.3  
63 29.5 23.4 35.2

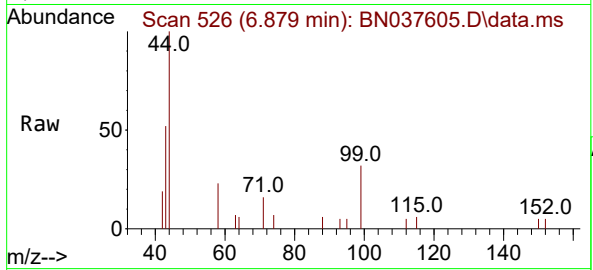






#5  
Phenol-d6  
Concen: 0.092 ng  
RT: 6.879 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

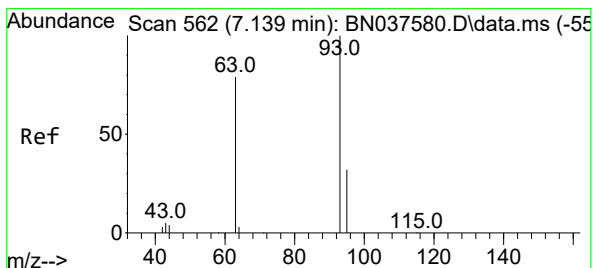
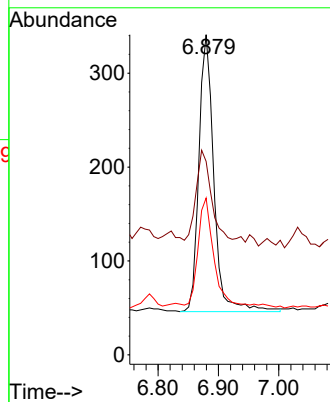
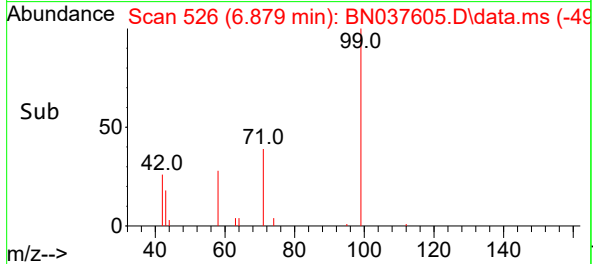
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion: 99 Resp: 508  
Ion Ratio Lower Upper  
99 100  
42 32.3 18.5 27.7  
71 39.4 28.6 42.8

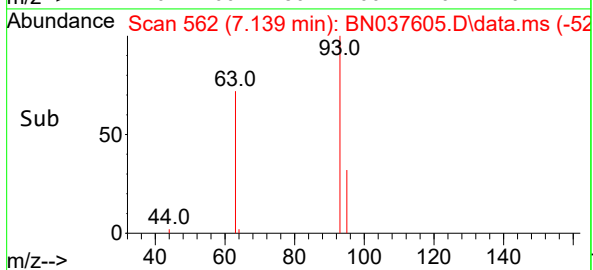
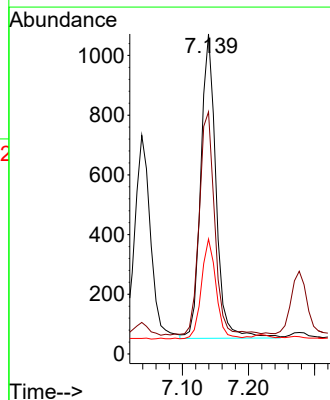
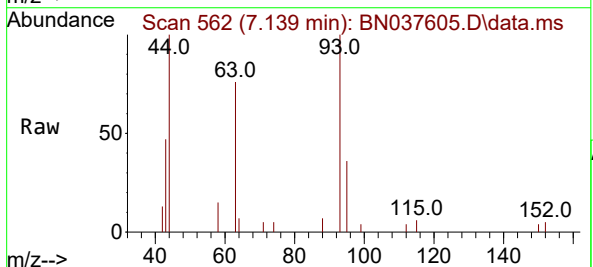
Manual Integrations  
APPROVED

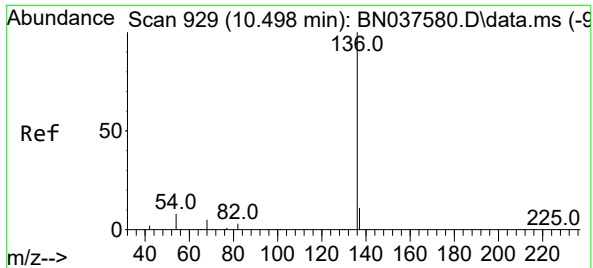
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.329 ng  
RT: 7.139 min Scan# 562  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

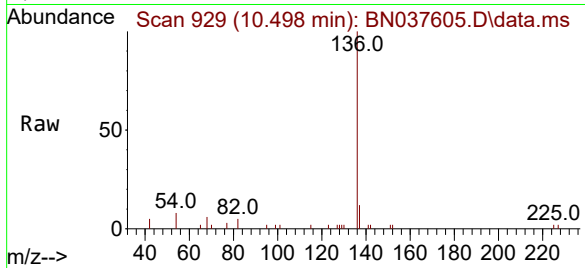
Tgt Ion: 93 Resp: 1634  
Ion Ratio Lower Upper  
93 100  
63 74.9 58.0 87.0  
95 31.4 24.9 37.3





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 929  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

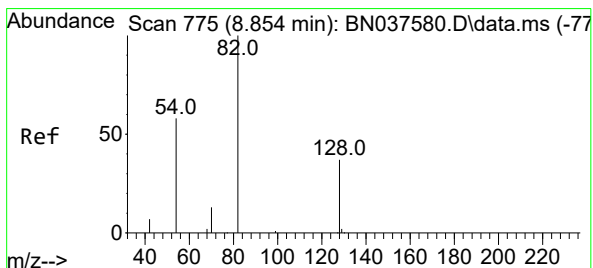
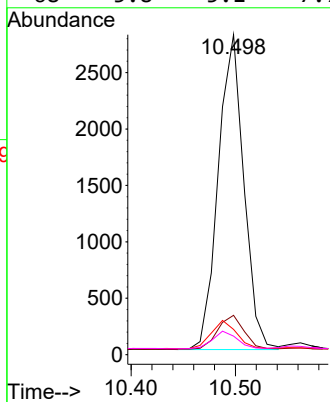
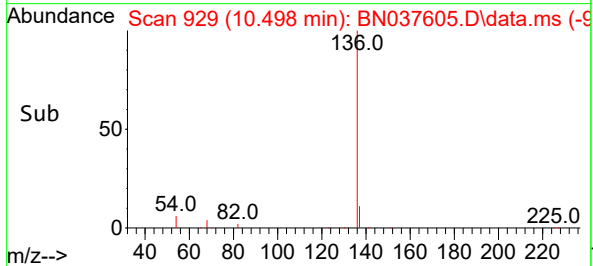
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion: 136 Resp: 476  
Ion Ratio Lower Upper  
136 100  
137 12.3 9.5 14.3  
54 7.9 7.3 10.9  
68 5.8 5.1 7.7

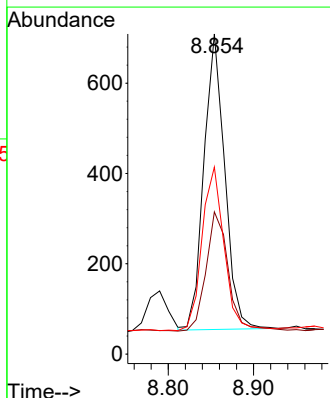
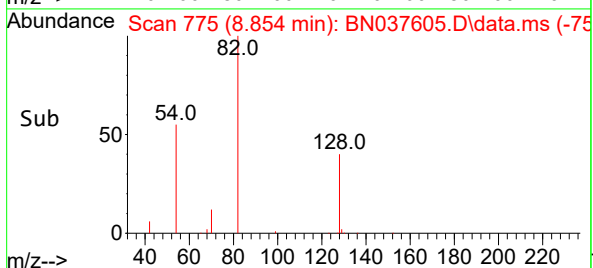
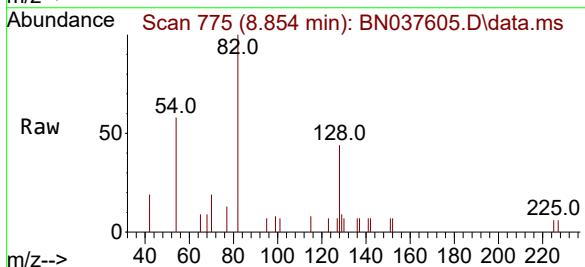
Manual Integrations  
APPROVED

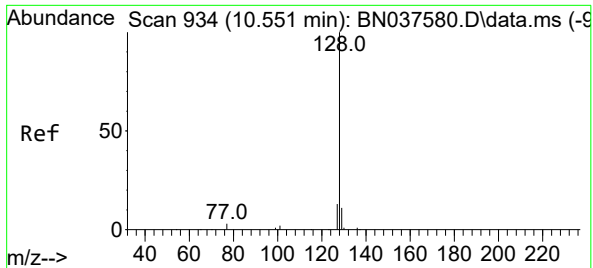
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#8  
Nitrobenzene-d5  
Concen: 0.331 ng  
RT: 8.854 min Scan# 775  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

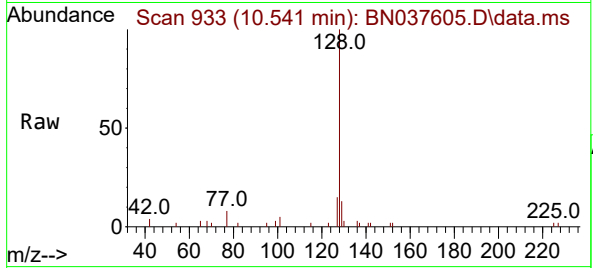
Tgt Ion: 82 Resp: 1111  
Ion Ratio Lower Upper  
82 100  
128 44.4 32.6 48.8  
54 58.4 48.9 73.3





#9  
Naphthalene  
Concen: 0.335 ng  
RT: 10.541 min Scan# 91  
Delta R.T. -0.010 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

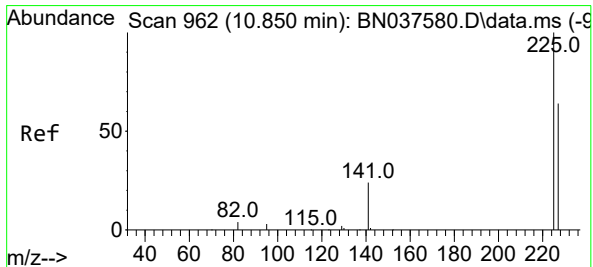
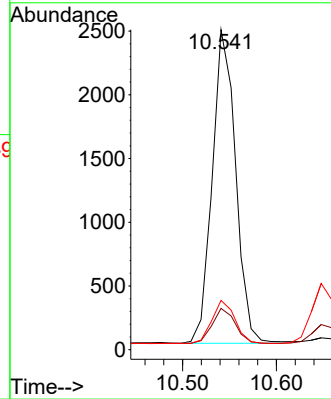
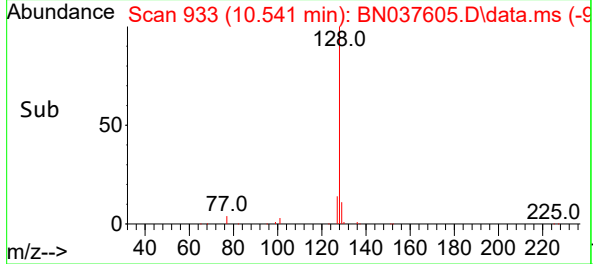
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion:128 Resp: 4254  
Ion Ratio Lower Upper  
128 100  
129 12.9 9.8 14.6  
127 15.4 11.5 17.3

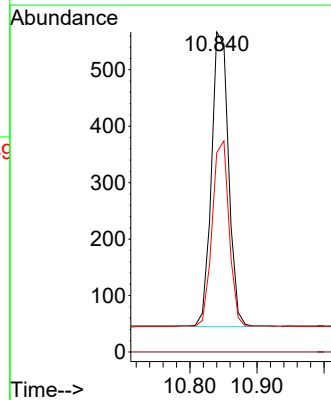
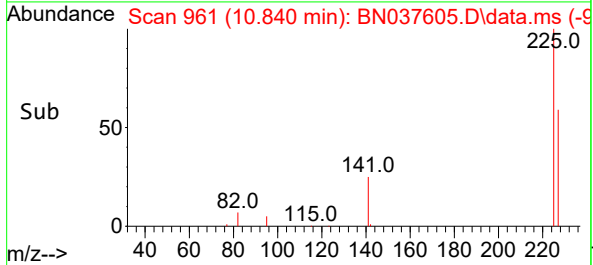
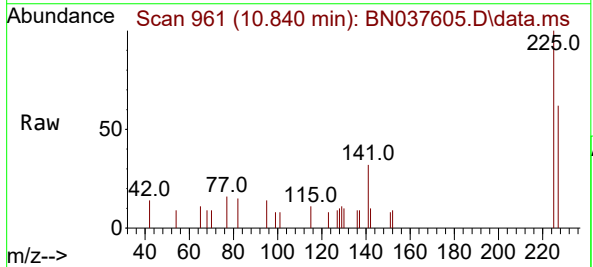
Manual Integrations  
APPROVED

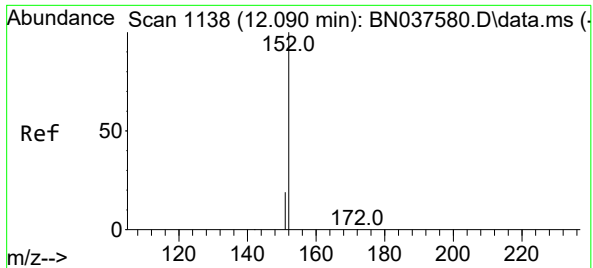
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#10  
Hexachlorobutadiene  
Concen: 0.298 ng  
RT: 10.840 min Scan# 961  
Delta R.T. -0.010 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

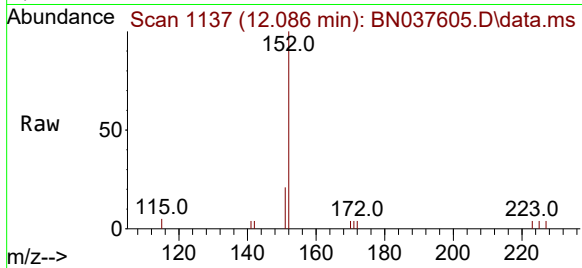
Tgt Ion:225 Resp: 924  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 62.3 50.8 76.2





#11  
2-Methylnaphthalene-d10  
Concen: 0.309 ng m  
RT: 12.086 min Scan# 1137  
Delta R.T. -0.005 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

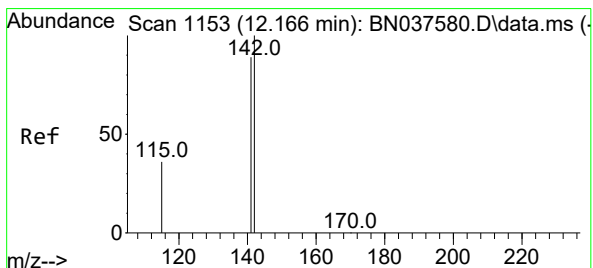
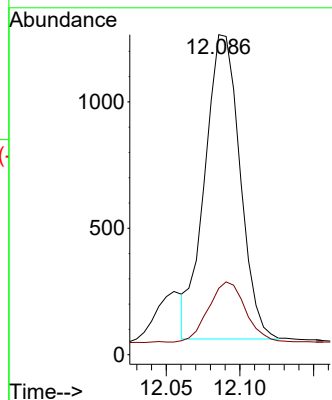
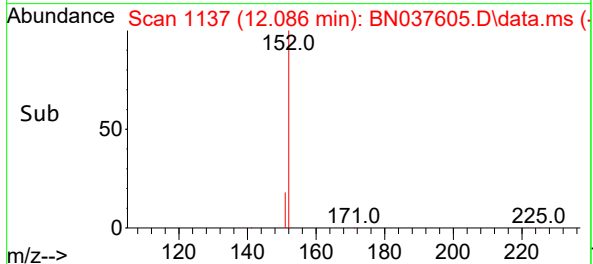
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion:152 Resp: 200  
Ion Ratio Lower Upper  
152 100  
151 22.1 17.3 25.9

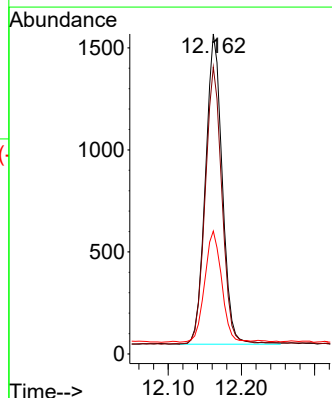
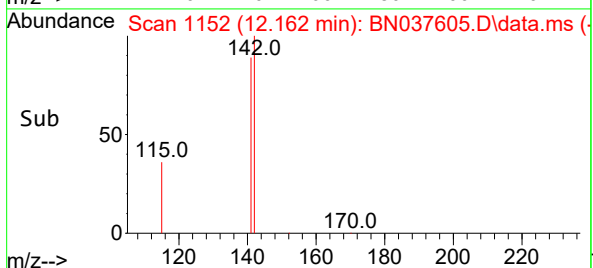
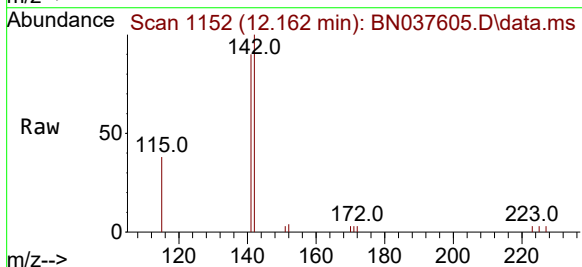
Manual Integrations  
APPROVED

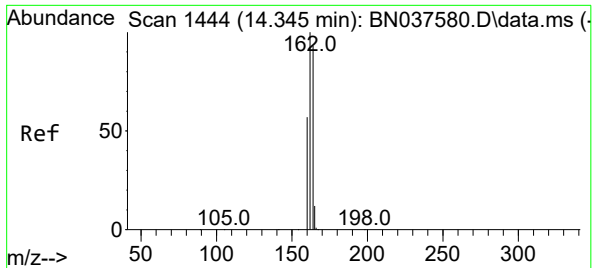
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#12  
2-Methylnaphthalene  
Concen: 0.304 ng  
RT: 12.162 min Scan# 1152  
Delta R.T. -0.005 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

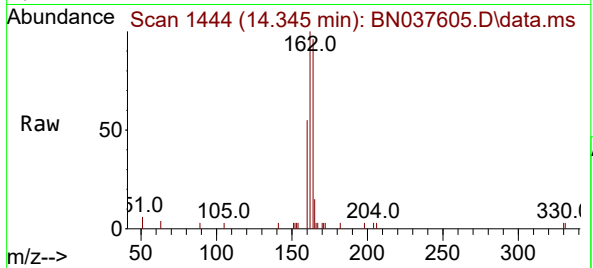
Tgt Ion:142 Resp: 2421  
Ion Ratio Lower Upper  
142 100  
141 89.7 71.4 107.0  
115 38.4 30.2 45.4





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.345 min Scan# 1444  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

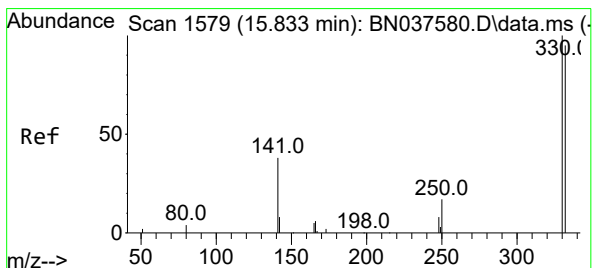
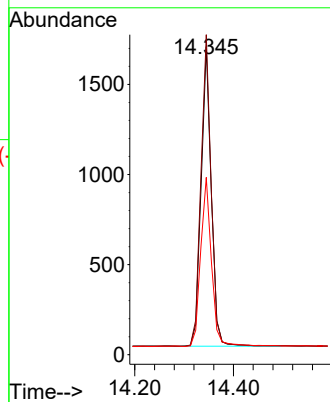
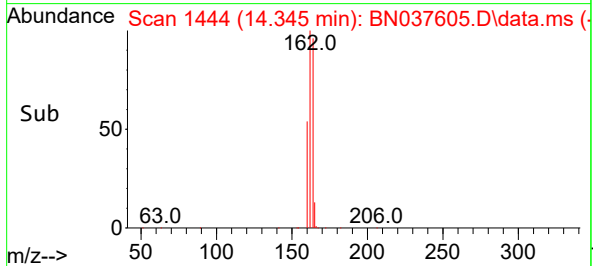
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



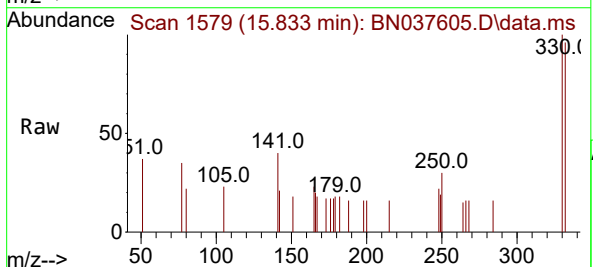
Tgt Ion:164 Resp: 2380  
Ion Ratio Lower Upper  
164 100  
162 103.9 85.5 128.3  
160 57.6 49.5 74.3

Manual Integrations  
**APPROVED**

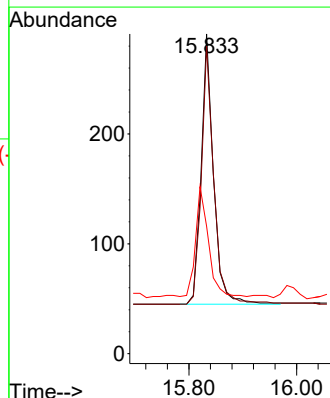
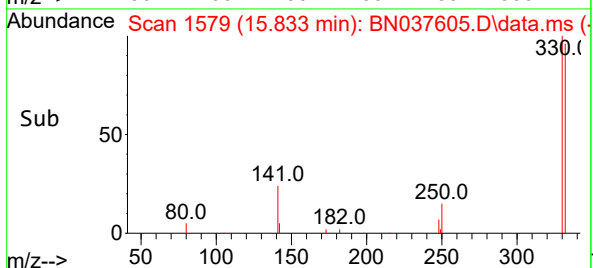
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025

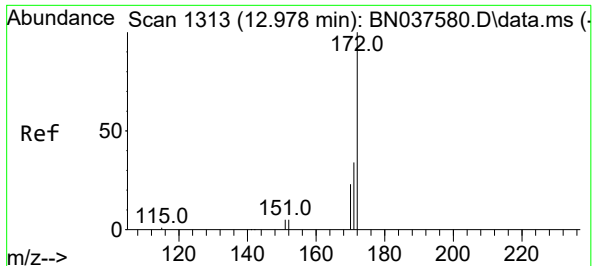


#14  
2,4,6-Tribromophenol  
Concen: 0.376 ng  
RT: 15.833 min Scan# 1579  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40



Tgt Ion:330 Resp: 392  
Ion Ratio Lower Upper  
330 100  
332 96.9 77.4 116.0  
141 43.4 30.9 46.3





#15

2-Fluorobiphenyl

Concen: 0.324 ng

RT: 12.973 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MS

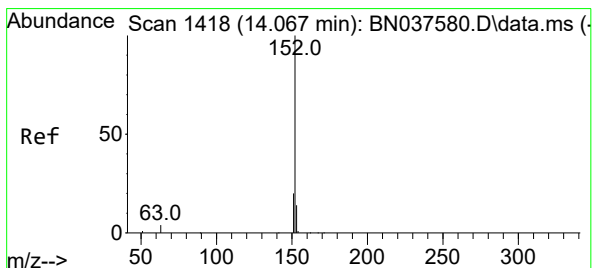
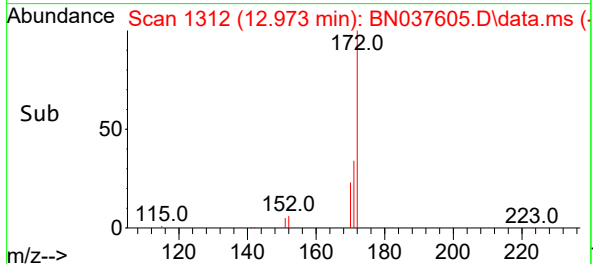
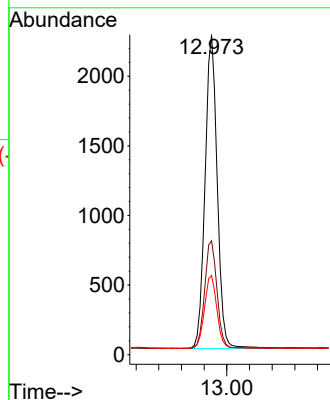
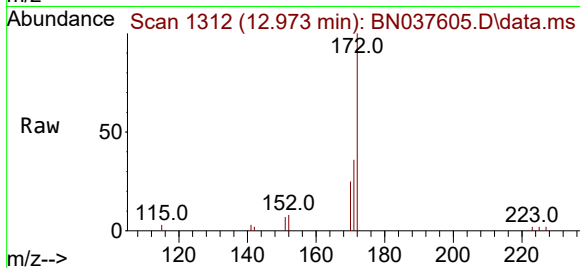
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 445   |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 35.6  | 28.2  | 42.4  |
| 170      | 24.7  | 19.2  | 28.8  |

Manual Integrations

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#16

Acenaphthylene

Concen: 0.363 ng

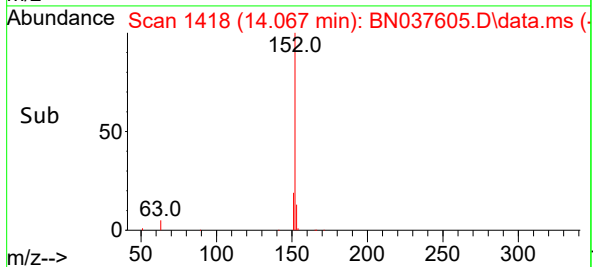
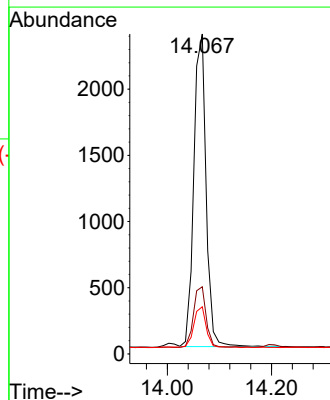
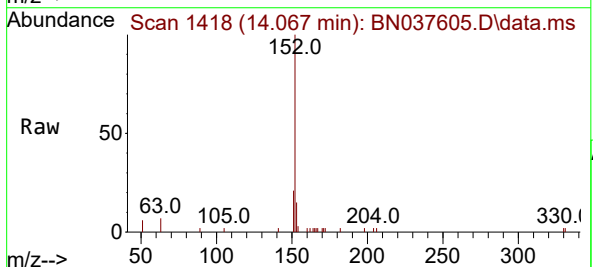
RT: 14.067 min Scan# 1418

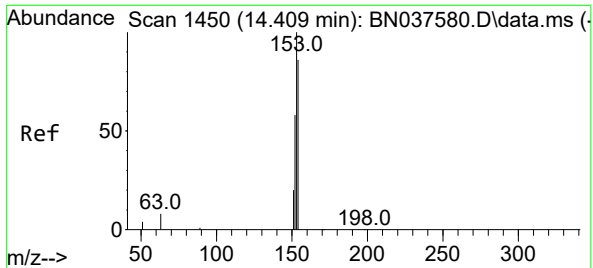
Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

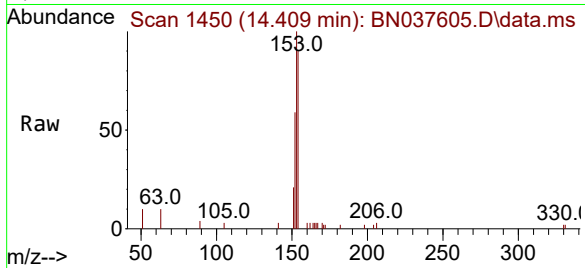
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 3870  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.2  | 16.1  | 24.1  |
| 153      | 13.5  | 10.7  | 16.1  |





#17  
Acenaphthene  
Concen: 0.341 ng  
RT: 14.409 min Scan# 1450  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

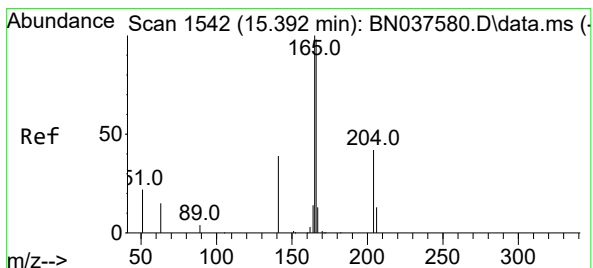
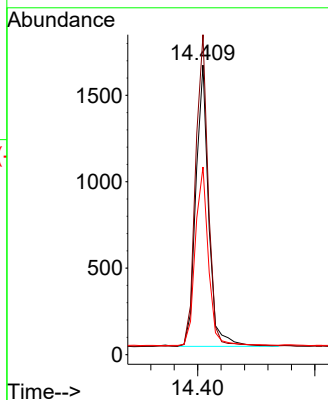
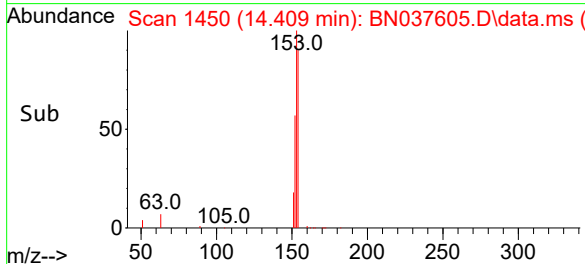
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion:154 Resp: 247  
Ion Ratio Lower Upper  
154 100  
153 109.5 90.6 135.8  
152 65.1 54.9 82.3

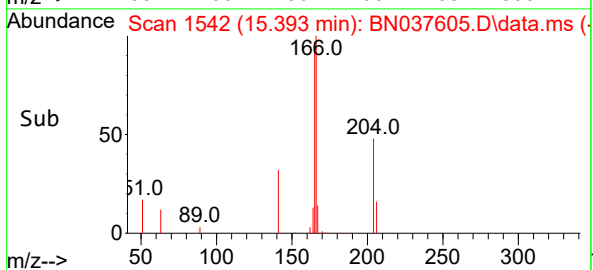
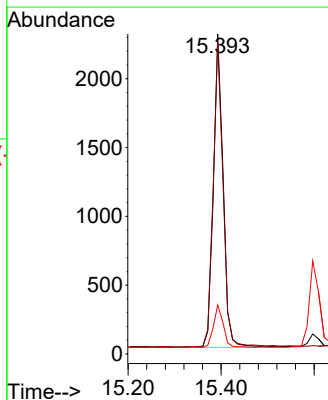
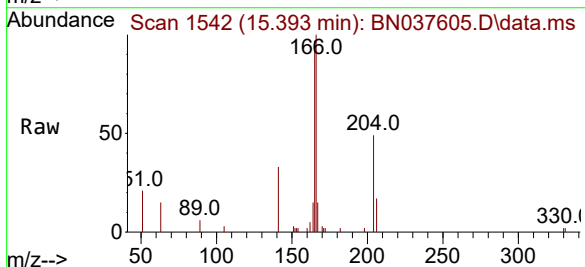
Manual Integrations  
APPROVED

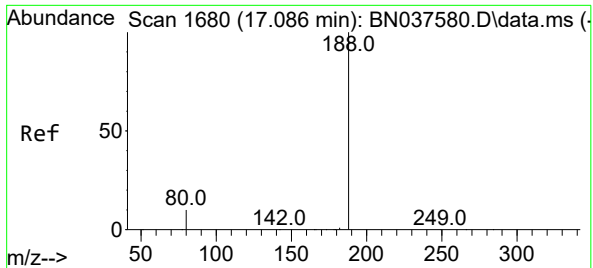
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#18  
Fluorene  
Concen: 0.352 ng  
RT: 15.393 min Scan# 1542  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

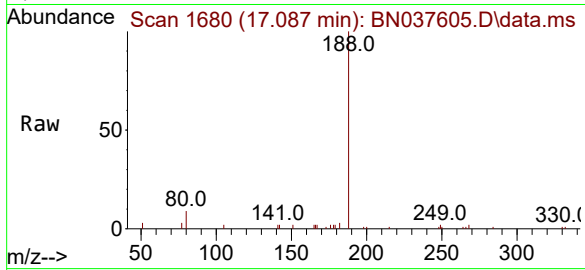
Tgt Ion:166 Resp: 3340  
Ion Ratio Lower Upper  
166 100  
165 97.2 78.9 118.3  
167 13.5 10.7 16.1





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.087 min Scan# 1680  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

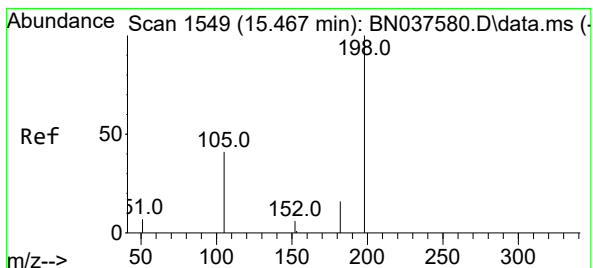
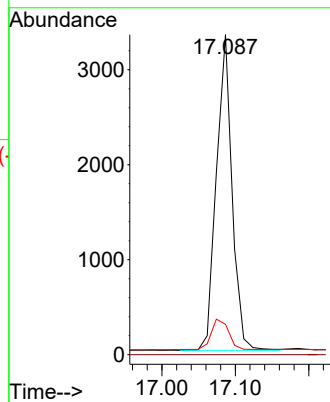
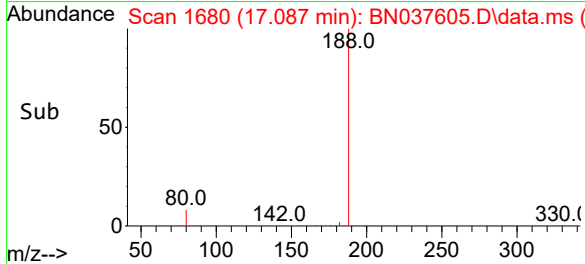
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion:188 Resp: 492  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 9.5 9.1 13.7

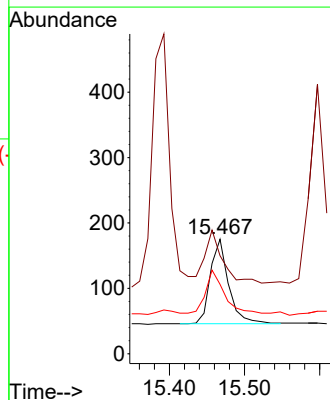
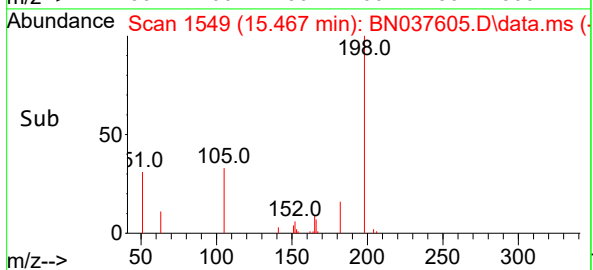
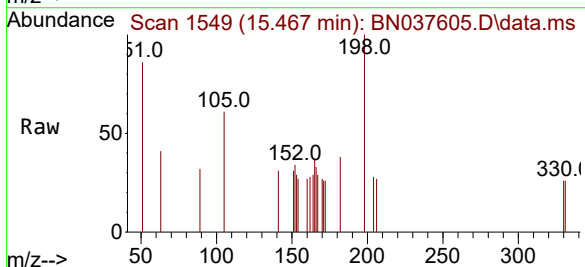
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Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025

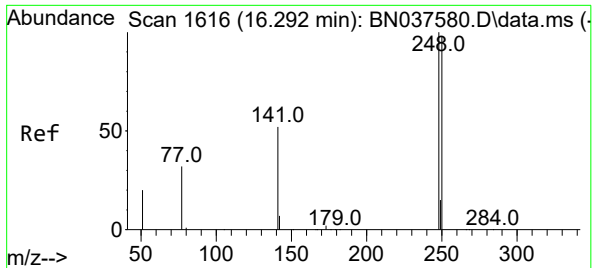


#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.434 ng  
RT: 15.467 min Scan# 1549  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

Tgt Ion:198 Resp: 226  
Ion Ratio Lower Upper  
198 100  
51 85.7 81.0 121.6  
105 60.6 52.5 78.7

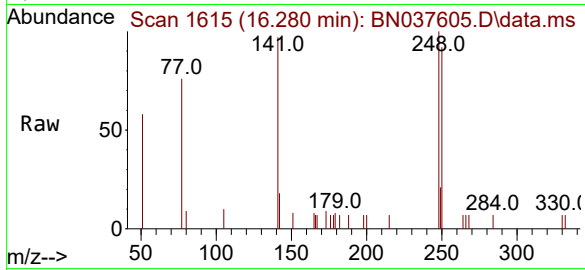






#21  
4-Bromophenyl-phenylether  
Concen: 0.352 ng  
RT: 16.280 min Scan# 1615  
Delta R.T. -0.012 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

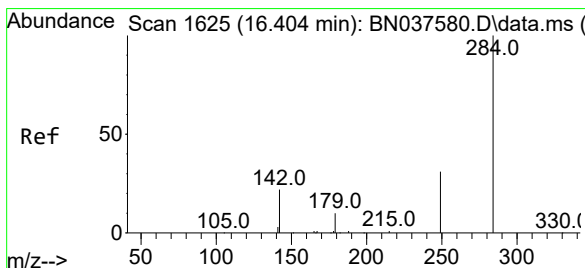
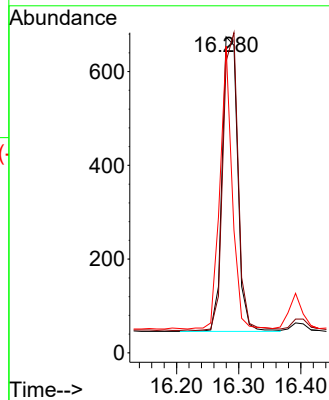
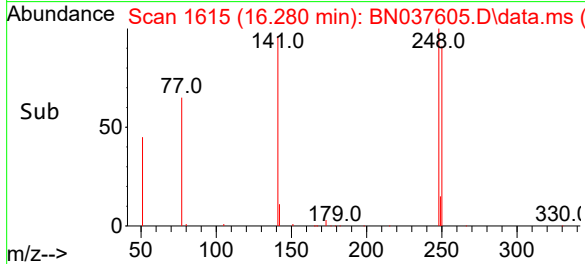
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion:248 Resp: 1089  
Ion Ratio Lower Upper  
248 100  
250 92.3 78.6 118.0  
141 97.0 43.7 65.5

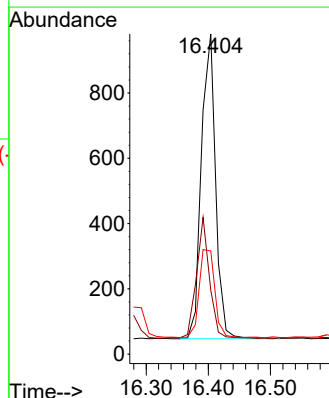
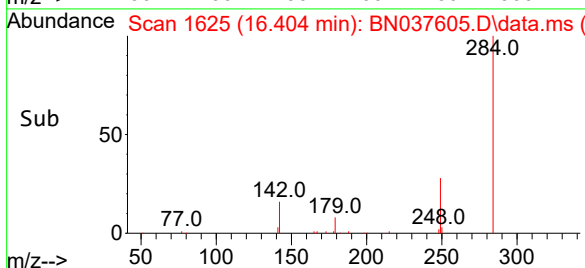
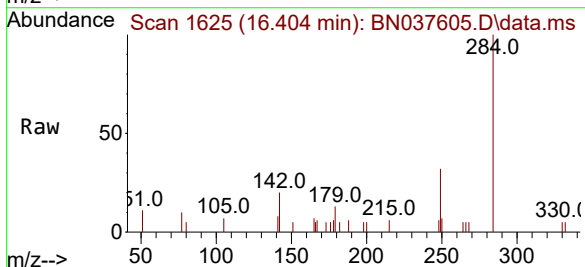
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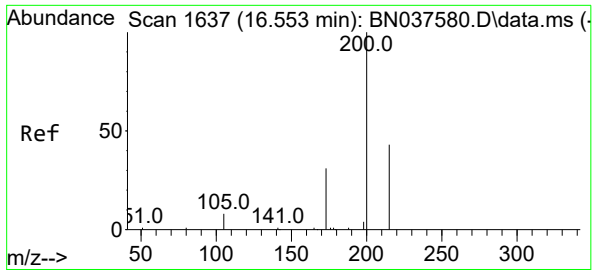
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#22  
Hexachlorobenzene  
Concen: 0.340 ng  
RT: 16.404 min Scan# 1625  
Delta R.T. -0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

Tgt Ion:284 Resp: 1490  
Ion Ratio Lower Upper  
284 100  
142 37.3 29.8 44.6  
249 32.0 26.0 39.0





#23

Atrazine

Concen: 0.456 ng

RT: 16.553 min Scan# 1637

Delta R.T. -0.000 min

Lab File: BN037605.D

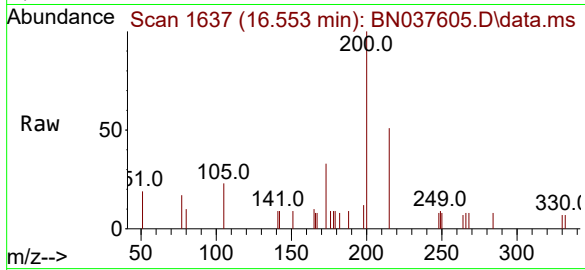
Acq: 19 Aug 2025 13:40

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MS



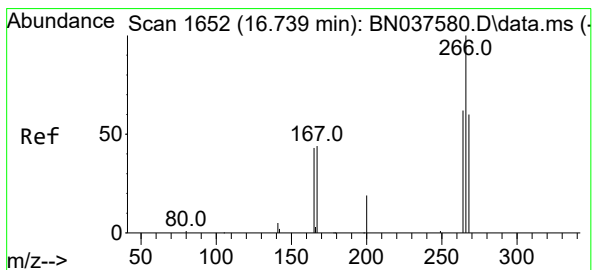
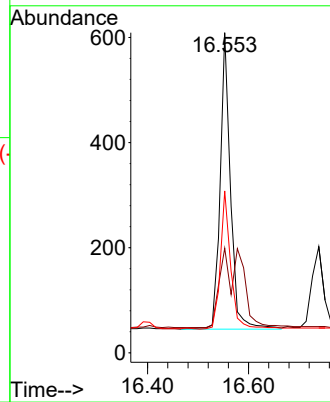
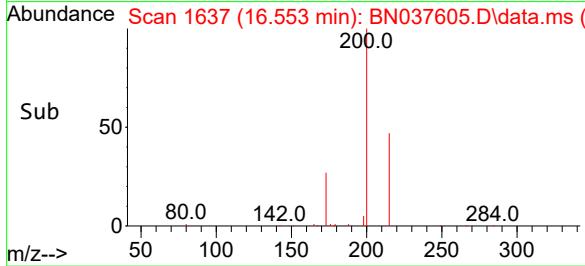
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 200   | Resp: | 79   |
| Ion Ratio | Lower | Upper |      |
| 200       | 100   |       |      |
| 173       | 32.7  | 31.0  | 46.4 |
| 215       | 50.6  | 39.4  | 59.0 |

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#24

Pentachlorophenol

Concen: 0.857 ng

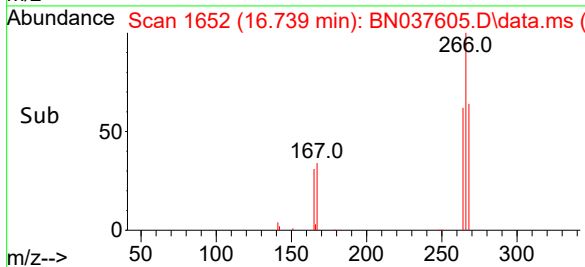
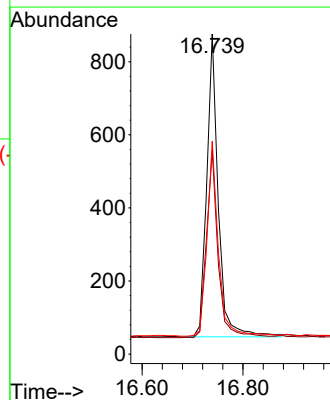
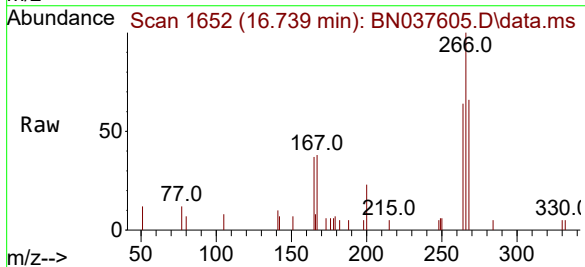
RT: 16.739 min Scan# 1652

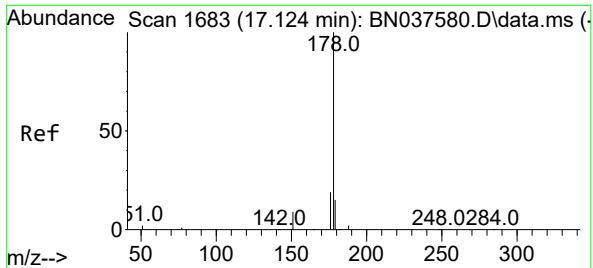
Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

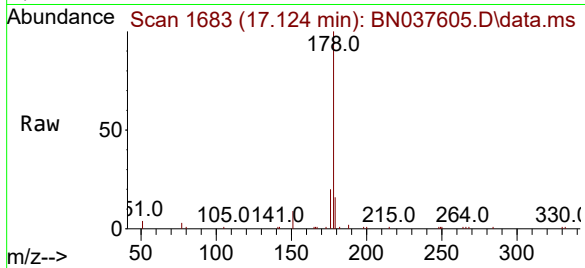
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 1320 |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 62.0  | 49.6  | 74.4 |
| 268       | 63.6  | 49.2  | 73.8 |





#25  
Phenanthrene  
Concen: 0.449 ng  
RT: 17.124 min Scan# 1683  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

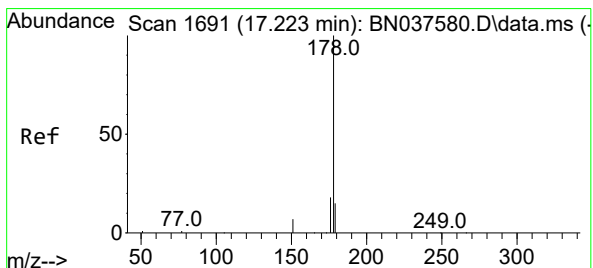
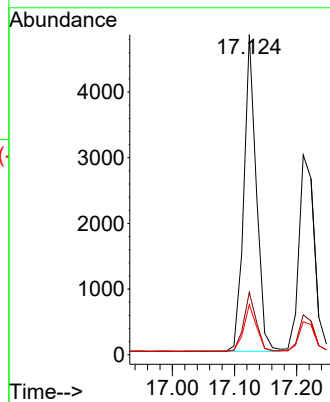
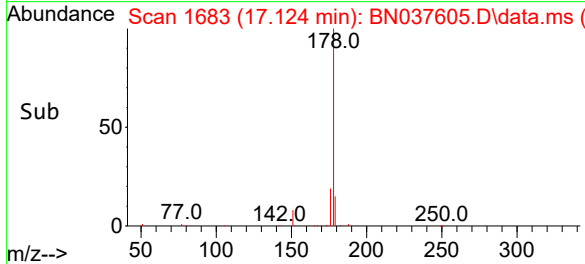
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion:178 Resp: 6725  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.0 22.6  
179 15.1 12.3 18.5

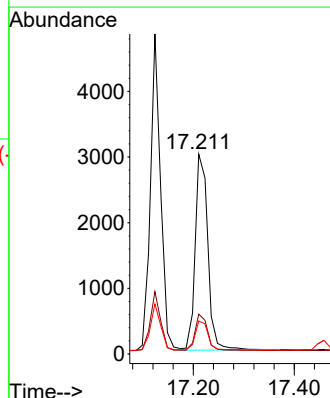
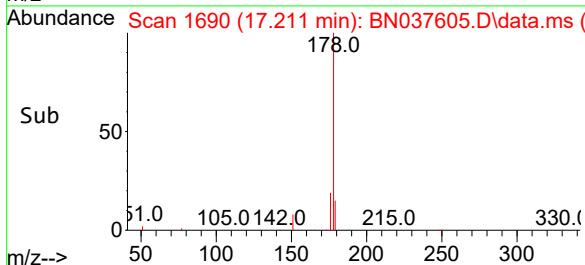
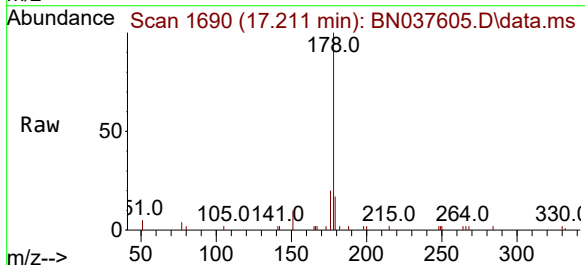
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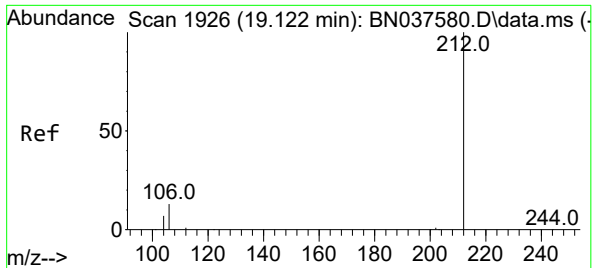
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#26  
Anthracene  
Concen: 0.393 ng  
RT: 17.211 min Scan# 1690  
Delta R.T. -0.012 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

Tgt Ion:178 Resp: 5205  
Ion Ratio Lower Upper  
178 100  
176 18.4 14.7 22.1  
179 15.5 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.376 ng

RT: 19.118 min Scan# 1925

Delta R.T. -0.004 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

Instrument :

BNA\_N

ClientSampleId :

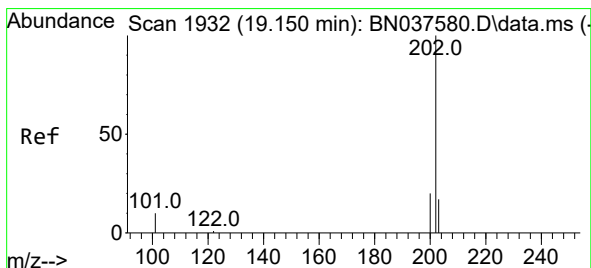
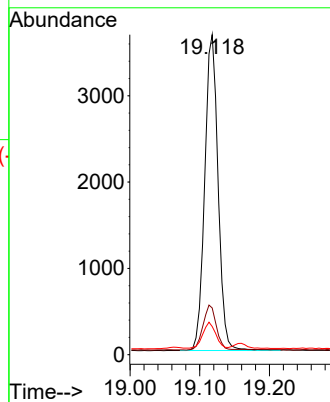
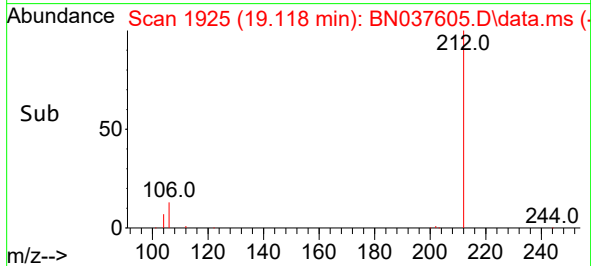
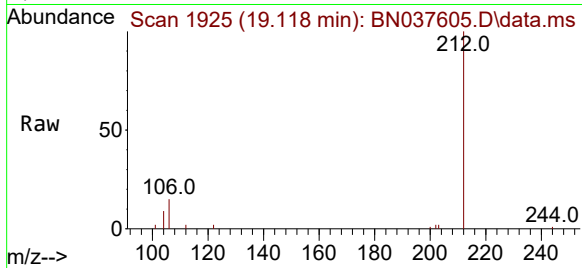
MW-17B-55.5-081225MS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 212   | Resp: | 4870 |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 14.4  | 11.5  | 17.3 |
| 104       | 8.1   | 6.6   | 9.8  |

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Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#28

Fluoranthene

Concen: 0.420 ng

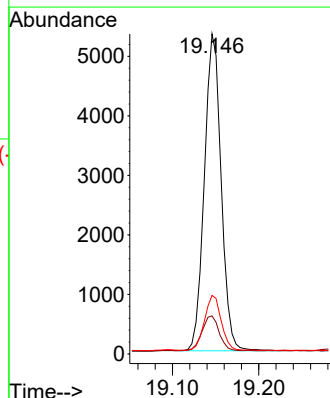
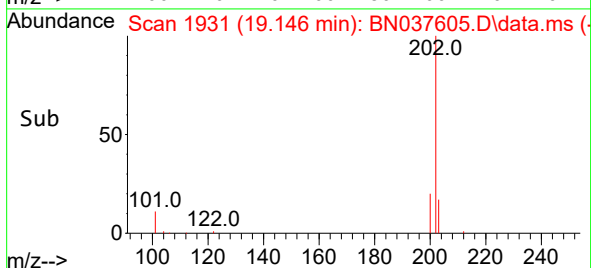
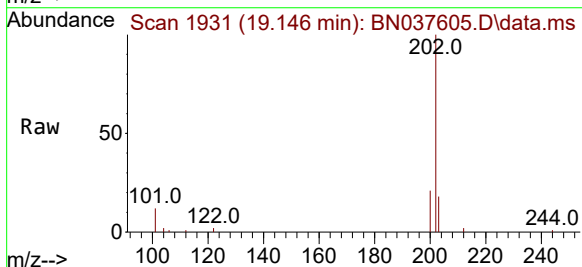
RT: 19.146 min Scan# 1931

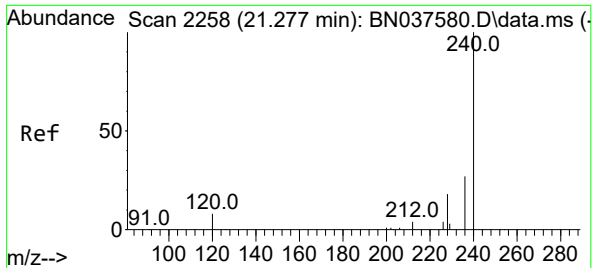
Delta R.T. -0.004 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 7212 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 11.4  | 9.0   | 13.6 |
| 203       | 17.2  | 13.8  | 20.8 |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.268 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037605.D

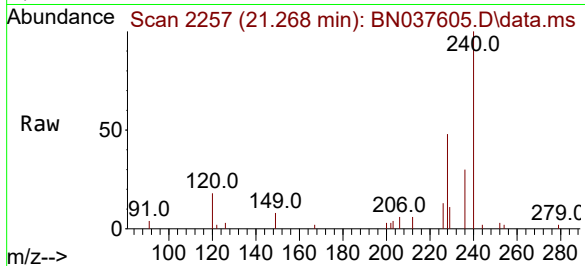
Acq: 19 Aug 2025 13:40

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MS



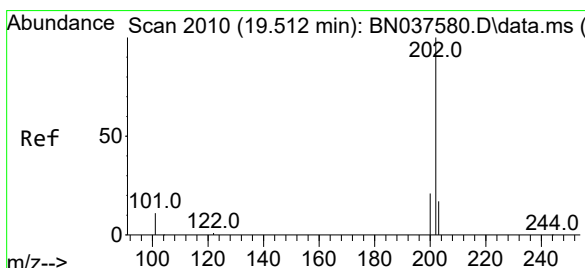
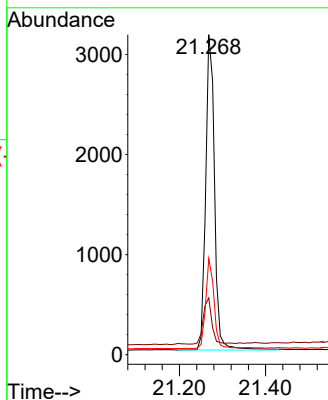
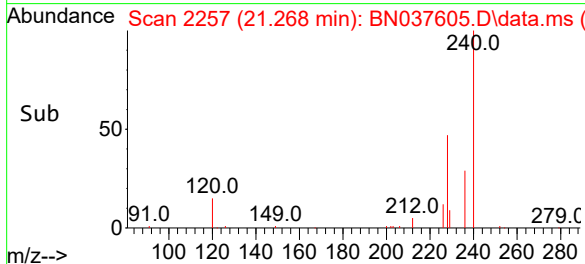
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 450  |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 17.8  | 8.9   | 13.3 |
| 236       | 30.0  | 22.6  | 33.8 |

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Supervised By :Jagrut Upadhyay 08/20/2025



#30

Pyrene

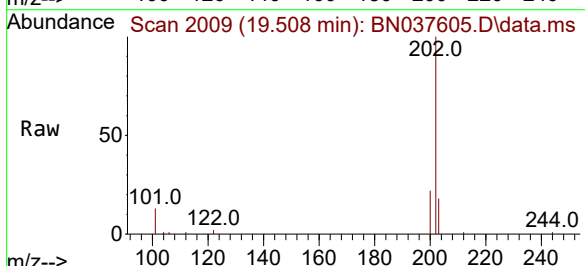
Concen: 0.415 ng

RT: 19.508 min Scan# 2009

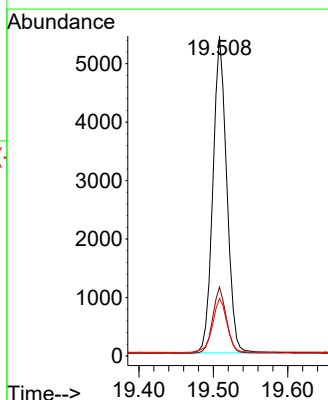
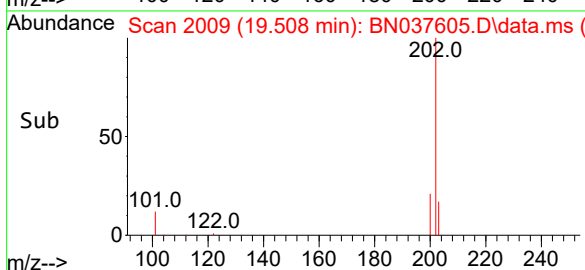
Delta R.T. -0.004 min

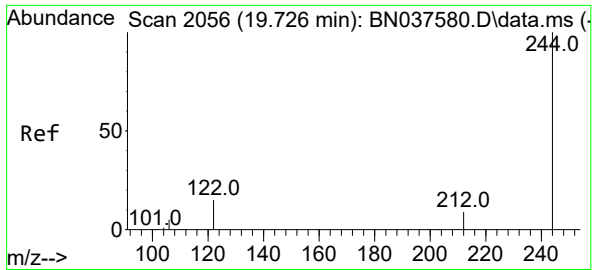
Lab File: BN037605.D

Acq: 19 Aug 2025 13:40



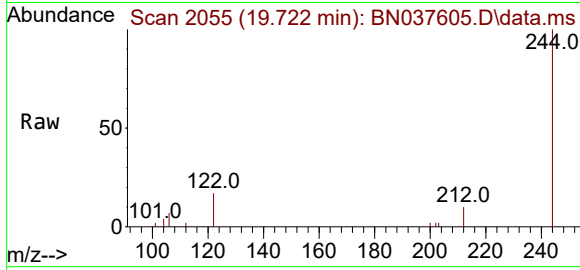
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 6994 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 20.6  | 16.6  | 25.0 |
| 203       | 17.9  | 14.3  | 21.5 |





#31  
Terphenyl-d14  
Concen: 0.468 ng  
RT: 19.722 min Scan# 2056  
Delta R.T. -0.004 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

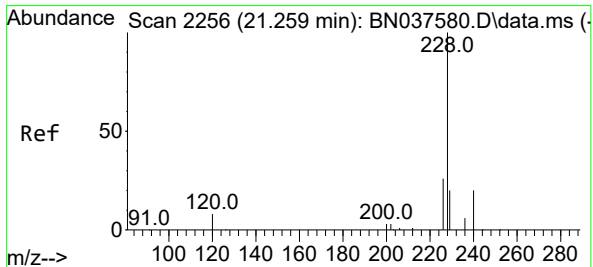
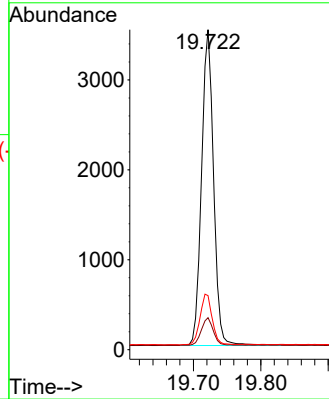
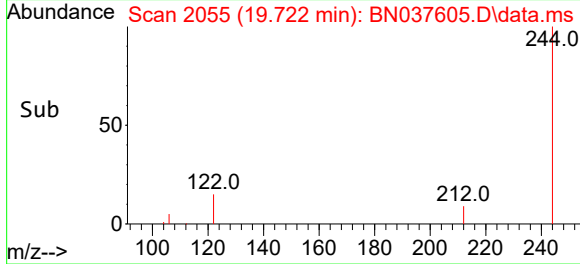
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion:244 Resp: 4344  
Ion Ratio Lower Upper  
244 100  
212 10.0 8.2 12.2  
122 16.9 13.2 19.8

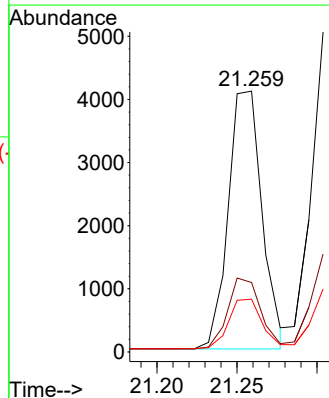
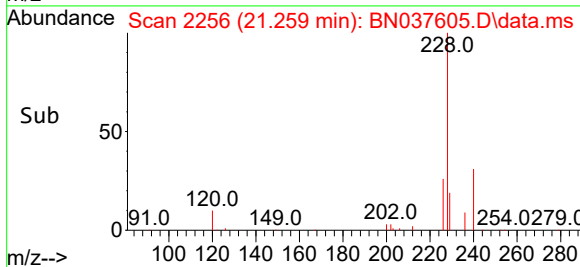
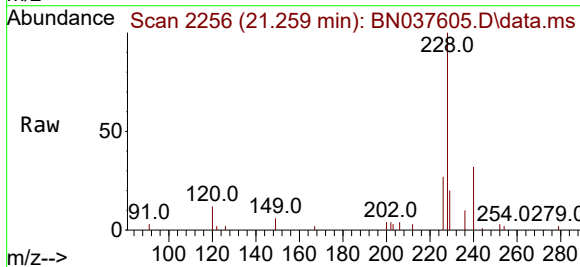
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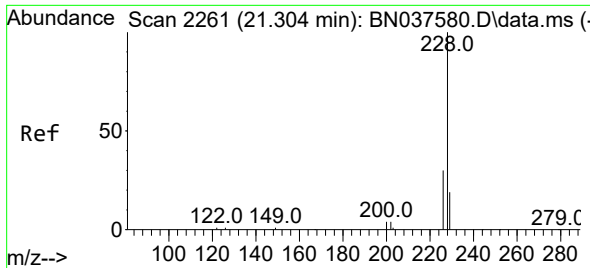
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#32  
Benzo(a)anthracene  
Concen: 0.400 ng  
RT: 21.259 min Scan# 2256  
Delta R.T. 0.000 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

Tgt Ion:228 Resp: 6028  
Ion Ratio Lower Upper  
228 100  
226 26.6 21.5 32.3  
229 20.2 16.5 24.7





#33

Chrysene

Concen: 0.399 ng

RT: 21.304 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037605.D

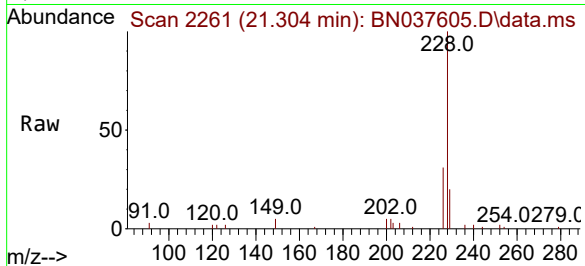
Acq: 19 Aug 2025 13:40

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MS



Tgt Ion:228 Resp: 6700

Ion Ratio Lower Upper

228 100

226 30.6 24.9 37.3

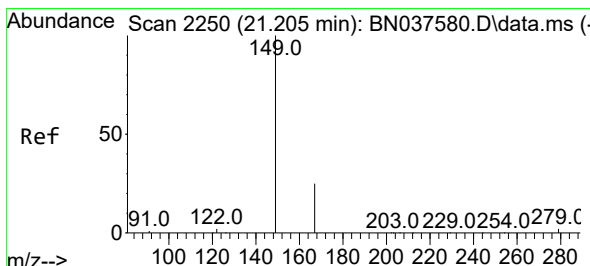
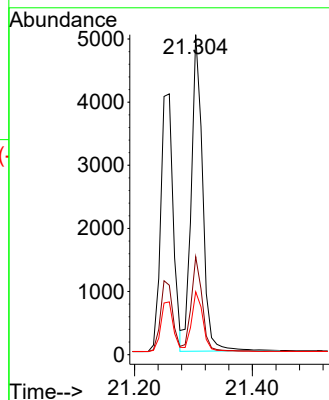
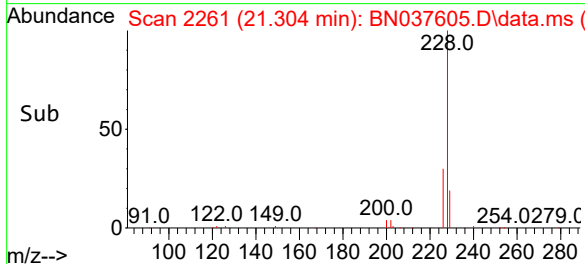
229 19.7 15.8 23.8

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.550 ng

RT: 21.205 min Scan# 2250

Delta R.T. 0.000 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40

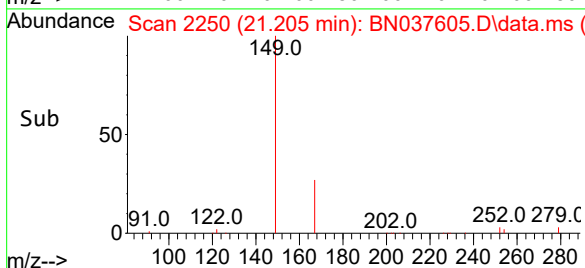
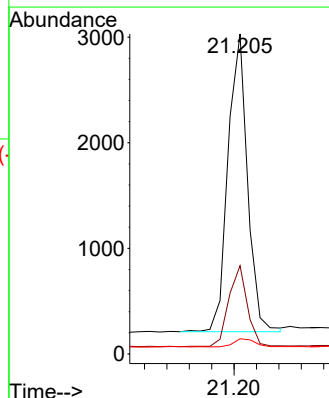
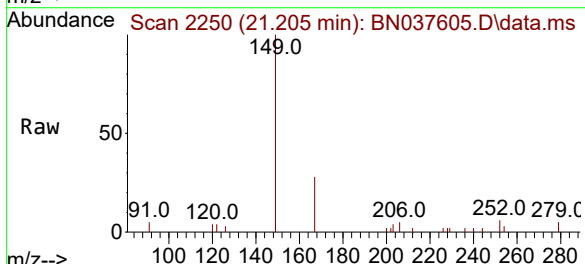
Tgt Ion:149 Resp: 3417

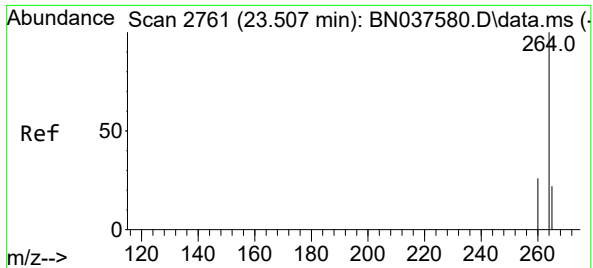
Ion Ratio Lower Upper

149 100

167 26.4 20.5 30.7

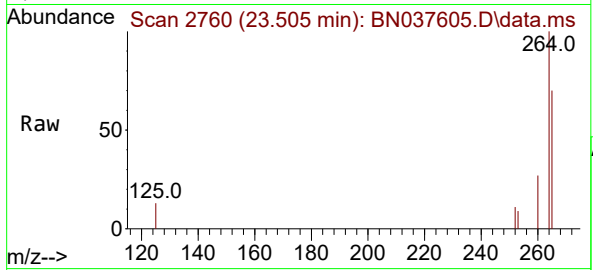
279 3.0 2.6 4.0





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.505 min Scan# 21  
Delta R.T. -0.003 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

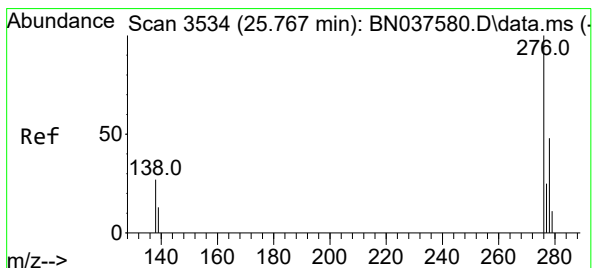
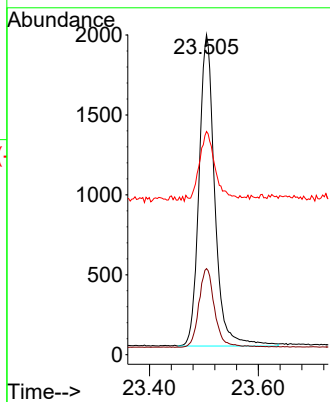
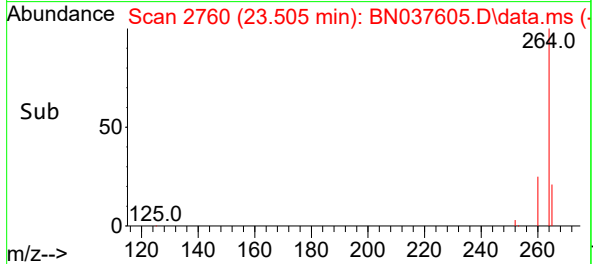
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MS



Tgt Ion:264 Resp: 3909  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.6 32.4  
265 69.7 48.2 72.4

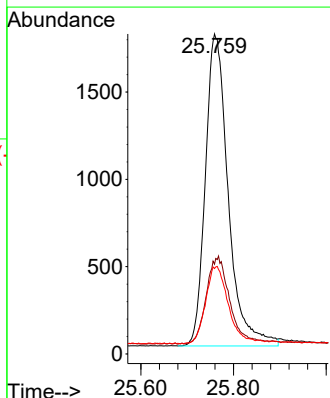
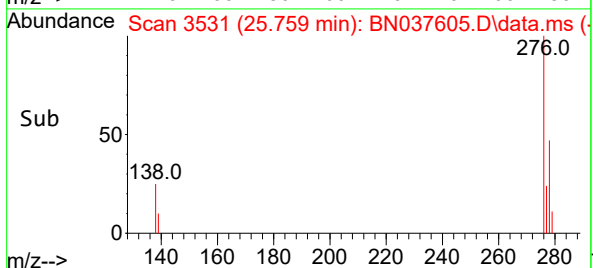
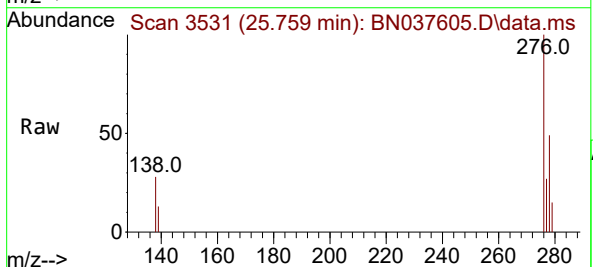
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Supervised By :Jagrut Upadhyay 08/20/2025

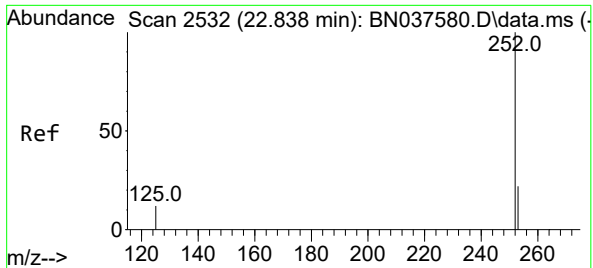


#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.372 ng  
RT: 25.759 min Scan# 3531  
Delta R.T. -0.008 min  
Lab File: BN037605.D  
Acq: 19 Aug 2025 13:40

Tgt Ion:276 Resp: 6122  
Ion Ratio Lower Upper  
276 100  
138 28.7 23.3 34.9  
277 24.6 19.5 29.3







#37

Benzo(b)fluoranthene

Concen: 0.411 ng

RT: 22.832 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037605.D

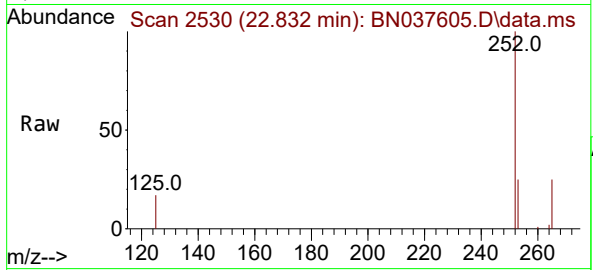
Acq: 19 Aug 2025 13:40

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MS



Tgt Ion:252 Resp: 6094

Ion Ratio Lower Upper

252 100

253 24.8 20.0 30.0

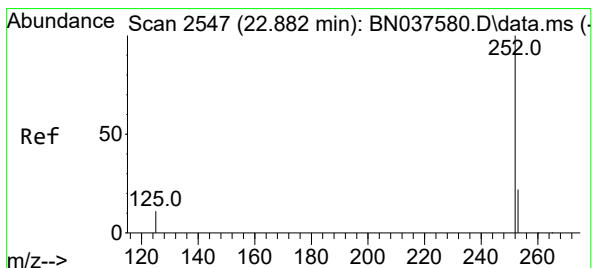
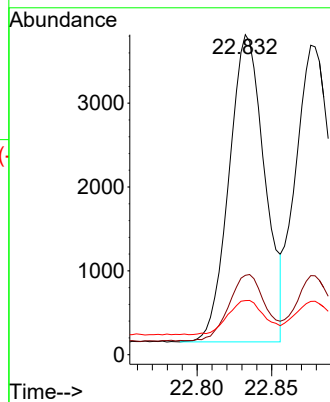
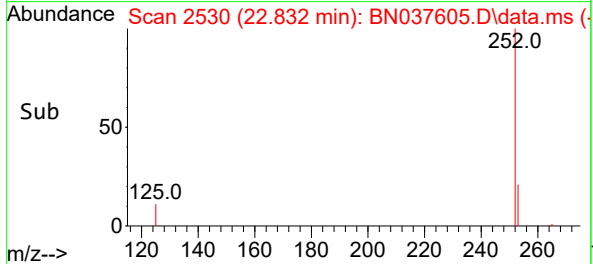
125 16.9 13.8 20.6

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#38

Benzo(k)fluoranthene

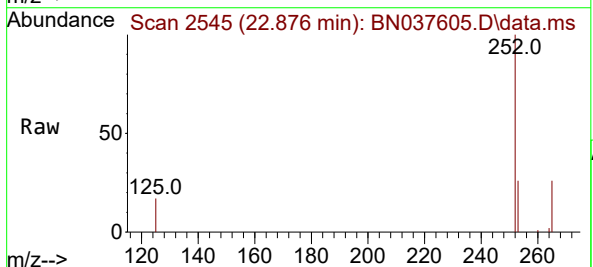
Concen: 0.374 ng

RT: 22.876 min Scan# 2545

Delta R.T. -0.006 min

Lab File: BN037605.D

Acq: 19 Aug 2025 13:40



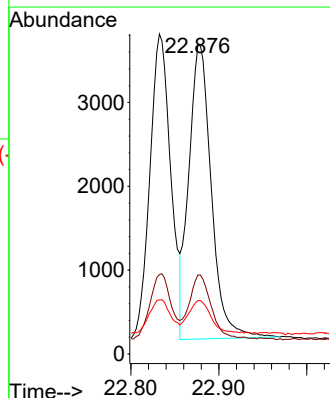
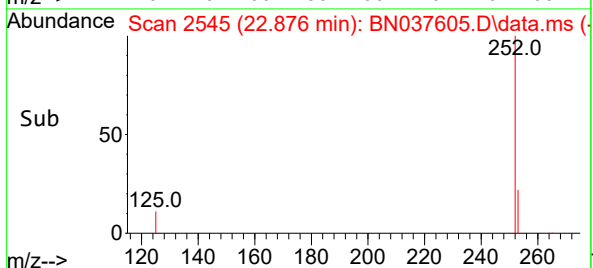
Tgt Ion:252 Resp: 6247

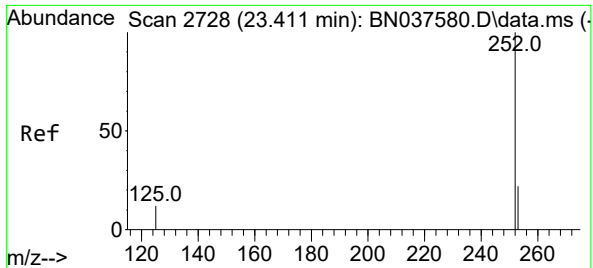
Ion Ratio Lower Upper

252 100

253 25.5 19.9 29.9

125 17.2 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.411 ng

RT: 23.405 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037605.D

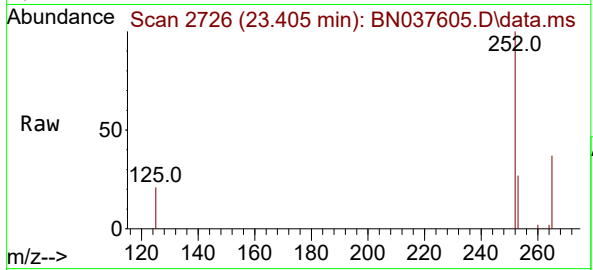
Acq: 19 Aug 2025 13:40

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MS



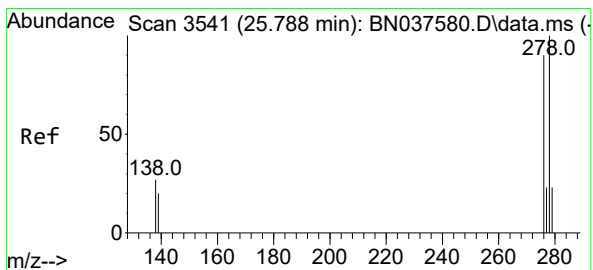
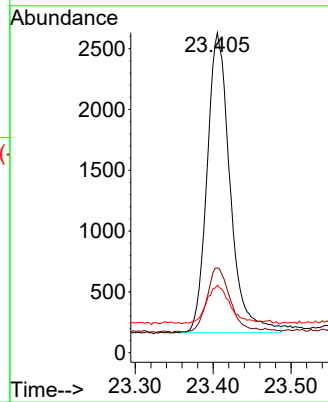
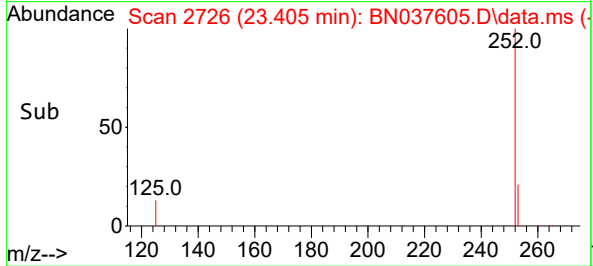
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 26.5  | 21.6  | 32.4  |
| 125     | 21.0  | 16.8  | 25.2  |

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Supervised By :Jagrut Upadhyay 08/20/2025



#40

Dibenzo(a,h)anthracene

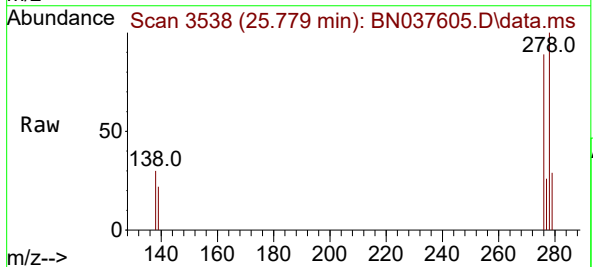
Concen: 0.368 ng

RT: 25.779 min Scan# 3538

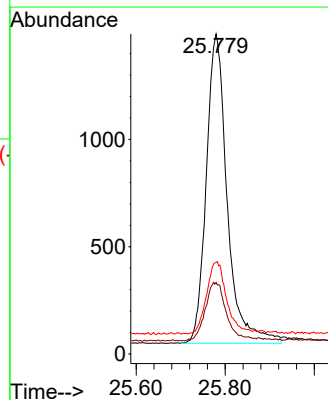
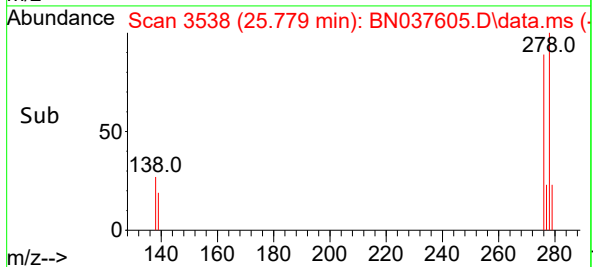
Delta R.T. -0.009 min

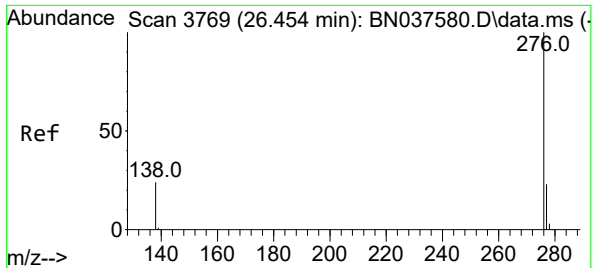
Lab File: BN037605.D

Acq: 19 Aug 2025 13:40



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 22.3  | 18.3  | 27.5  |
| 279     | 28.6  | 22.5  | 33.7  |





#41

Benzo(g,h,i)perylene

Concen: 0.391 ng

RT: 26.449 min Scan# 31

Delta R.T. -0.006 min

Lab File: BN037605.D

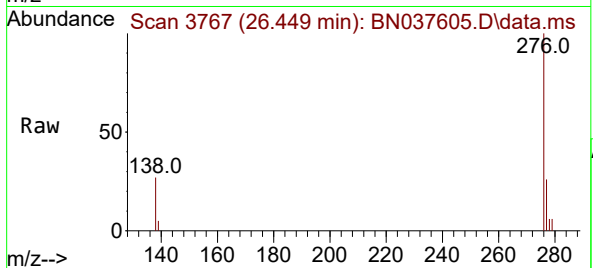
Acq: 19 Aug 2025 13:40

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MS



Tgt Ion:276 Resp: 5269

Ion Ratio Lower Upper

276 100

277 26.2 21.0 31.4

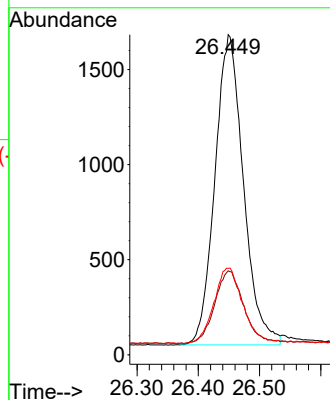
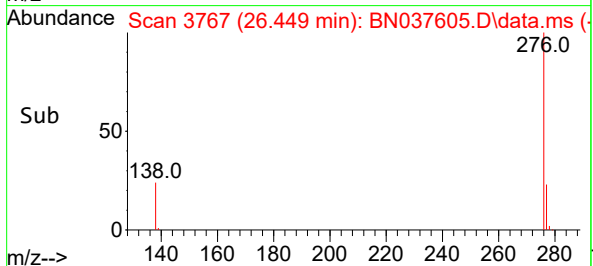
138 27.0 21.7 32.5

Manual Integrations

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Supervised By :Jagrut Upadhyay 08/20/2025



## Report of Analysis

|                    |                                           |                 |                |
|--------------------|-------------------------------------------|-----------------|----------------|
| Client:            | JACOBS Engineering Group, Inc.            | Date Collected: | 08/12/25       |
| Project:           | Former Schlumberger STC PTC Site D3868221 | Date Received:  | 08/12/25       |
| Client Sample ID:  | MW-17B-55.5-081225MSD                     | SDG No.:        | Q2842          |
| Lab Sample ID:     | Q2842-05MSD                               | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                                | % Solid:        | 0              |
| Sample Wt/Vol:     | 960 Units: mL                             | Final Vol:      | 1000 uL        |
| Soil Aliquot Vol:  | uL                                        | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted : N                              | Level :         | LOW            |
| Injection Volume : | GPC Factor : 1.0                          | GPC Cleanup :   | N PH :         |
| Prep Method :      |                                           |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037606.D        | 1         | 08/18/25 08:41 | 08/19/25 14:17 | PB169286      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL                 | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|---------------------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |                     |            |          |
| 123-91-1                  | 1,4-Dioxane             | 3.00  |           | 0.070               | 0.21       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |                     |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.30  |           | 30 (20) - 150 (139) | 76%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.37  |           | 30 (54) - 150 (157) | 93%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.32  |           | 30 (27) - 130 (154) | 79%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.32  |           | 30 (30) - 130 (155) | 81%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.47  |           | 30 (54) - 130 (175) | 117%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |                     |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 2020  | 7.717     |                     |            |          |
| 1146-65-2                 | Naphthalene-d8          | 4840  | 10.498    |                     |            |          |
| 15067-26-2                | Acenaphthene-d10        | 2410  | 14.344    |                     |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 5010  | 17.086    |                     |            |          |
| 1719-03-5                 | Chrysene-d12            | 4560  | 21.267    |                     |            |          |
| 1520-96-3                 | Perylene-d12            | 3940  | 23.504    |                     |            |          |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

M = MS/MSD acceptance criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

\* = Values outside of QC limits

D = Dilution

() = Laboratory InHouse Limit

A = Aldol-Condensation Reaction Products

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037606.D  
 Acq On : 19 Aug 2025 14:17  
 Operator : RC/JU  
 Sample : Q2842-05MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-17B-55.5-081225MSD

Manual Integrations  
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Reviewed By :Rahul Chavli 08/20/2025  
 Supervised By :Jagrut Upadhyay 08/20/2025

Quant Time: Aug 20 01:26:12 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| -----                         |        |      |          |       |       |          |
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.717  | 152  | 2022     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.498 | 136  | 4839     | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.344 | 164  | 2406     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.086 | 188  | 5009     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.267 | 240  | 4561     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.504 | 264  | 3935     | 0.400 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.304  | 112  | 713      | 0.156 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.879  | 99   | 499      | 0.090 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.853  | 82   | 1080     | 0.317 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.090 | 152  | 1993m    | 0.303 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.832 | 330  | 401      | 0.381 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.973 | 172  | 4509     | 0.324 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.117 | 212  | 4894     | 0.371 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.721 | 244  | 4395     | 0.468 | ng    | 0.00     |
|                               |        |      |          |       |       |          |
| Target Compounds              |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.239  | 88   | 5537     | 2.862 | ng    | # 92     |
| 3) n-Nitrosodimethylamine     | 3.535  | 42   | 412      | 0.167 | ng    | # 94     |
| 6) bis(2-Chloroethyl)ether    | 7.139  | 93   | 1634     | 0.329 | ng    | 97       |
| 9) Naphthalene                | 10.540 | 128  | 4289     | 0.333 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.850 | 225  | 911      | 0.289 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.161 | 142  | 2410     | 0.298 | ng    | 100      |
| 16) Acenaphthylene            | 14.066 | 152  | 3852     | 0.357 | ng    | 100      |
| 17) Acenaphthene              | 14.408 | 154  | 2466     | 0.336 | ng    | 98       |
| 18) Fluorene                  | 15.392 | 166  | 3360     | 0.350 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.467 | 198  | 237      | 0.441 | ng    | 90       |
| 21) 4-Bromophenyl-phenylether | 16.292 | 248  | 1112     | 0.353 | ng    | # 90     |
| 22) Hexachlorobenzene         | 16.403 | 284  | 1477     | 0.331 | ng    | 98       |
| 23) Atrazine                  | 16.552 | 200  | 799      | 0.449 | ng    | 96       |
| 24) Pentachlorophenol         | 16.738 | 266  | 1294     | 0.826 | ng    | 97       |
| 25) Phenanthrene              | 17.123 | 178  | 6750     | 0.443 | ng    | 100      |
| 26) Anthracene                | 17.210 | 178  | 5136     | 0.381 | ng    | 99       |
| 28) Fluoranthene              | 19.145 | 202  | 7312     | 0.418 | ng    | 100      |
| 30) Pyrene                    | 19.508 | 202  | 7072     | 0.415 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.250 | 228  | 6132     | 0.402 | ng    | 98       |
| 33) Chrysene                  | 21.303 | 228  | 6692     | 0.394 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.205 | 149  | 3509     | 0.558 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.761 | 276  | 6228     | 0.376 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.832 | 252  | 6261     | 0.420 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 22.876 | 252  | 6279     | 0.373 | ng    | 98       |
| 39) Benzo(a)pyrene            | 23.405 | 252  | 5127     | 0.415 | ng    | 99       |
| 40) Dibenzo(a,h)anthracene    | 25.776 | 278  | 4745     | 0.369 | ng    | 99       |
| 41) Benzo(g,h,i)perylene      | 26.445 | 276  | 5431     | 0.401 | ng    | 99       |
| -----                         |        |      |          |       |       |          |

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

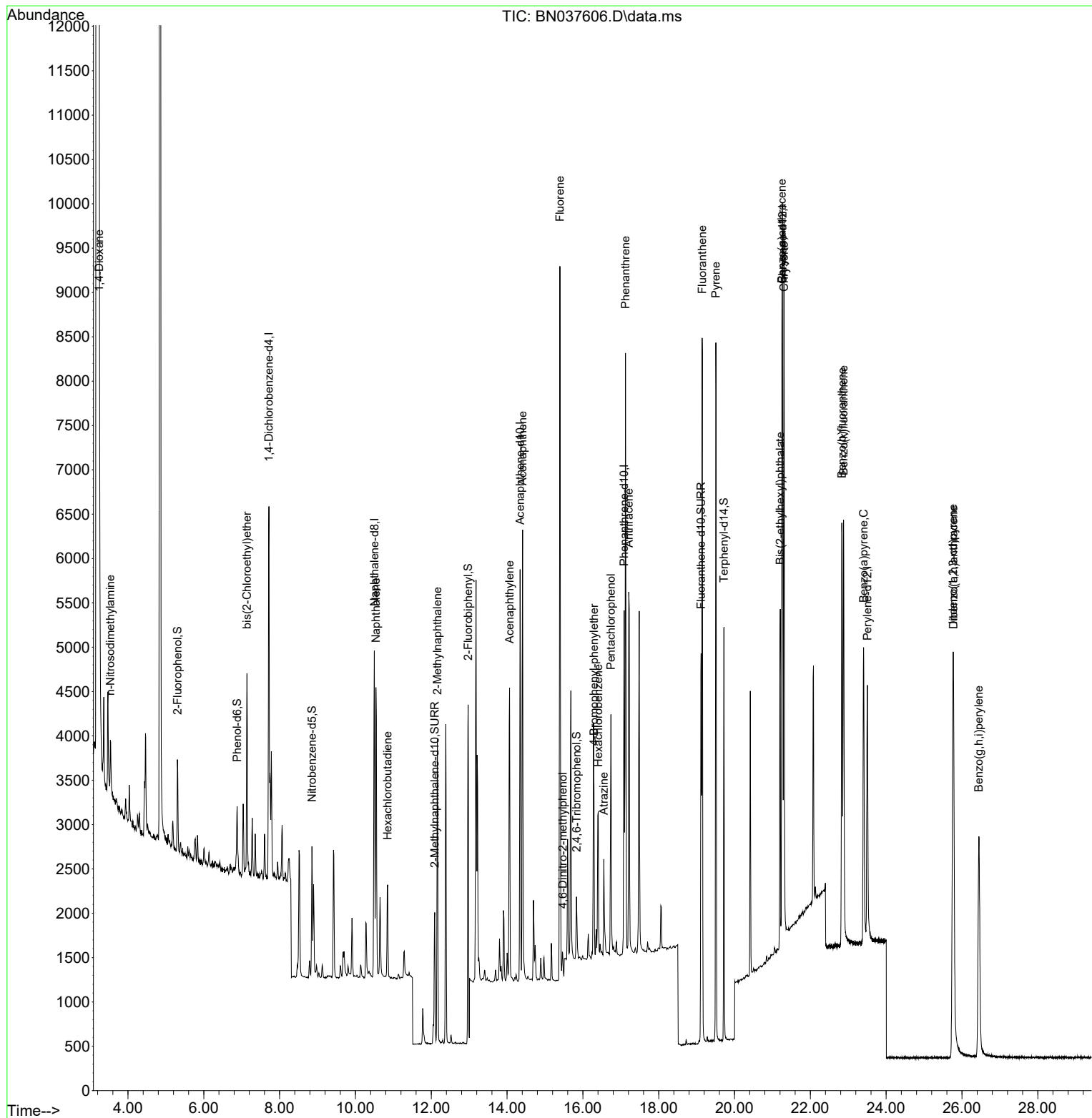
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN081925\  
 Data File : BN037606.D  
 Acq On : 19 Aug 2025 14:17  
 Operator : RC/JU  
 Sample : Q2842-05MSD  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

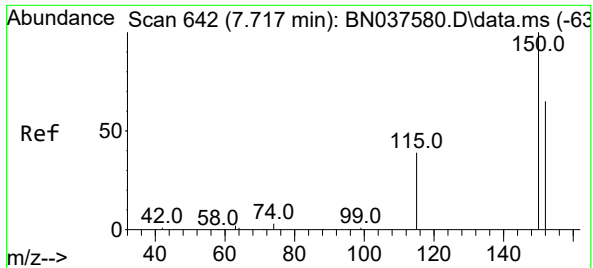
Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-17B-55.5-081225MSD

### Manual Integrations APPROVED

Reviewed By :Rahul Chavli 08/20/2025  
 Supervised By :Jagrut Upadhyay 08/20/2025

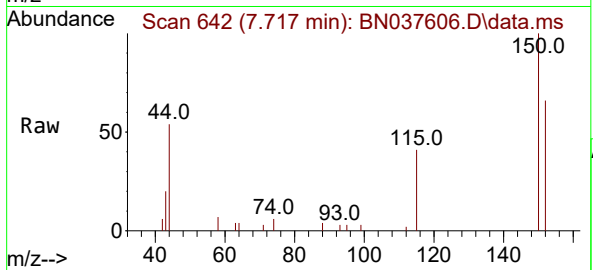
Quant Time: Aug 20 01:26:12 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN081225.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Aug 13 05:00:58 2025  
 Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.717 min Scan# 642  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

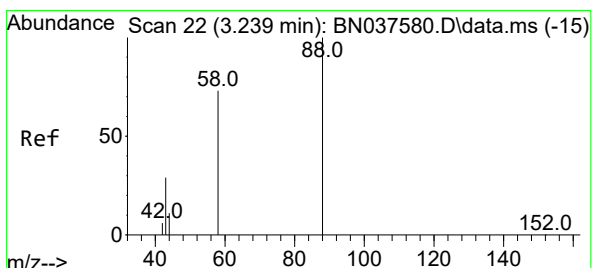
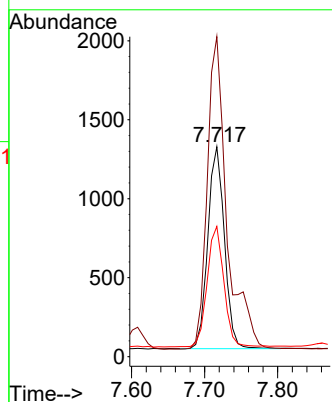
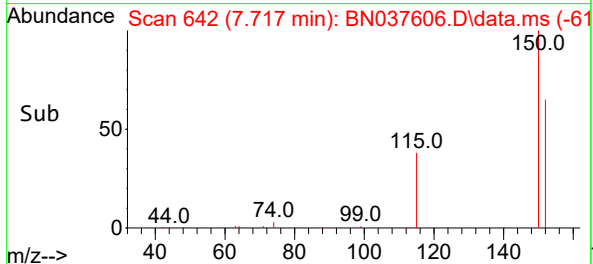
Instrument : BNA\_N  
ClientSampleId : MW-17B-55.5-081225MSD



Tgt Ion: 152 Resp: 2022  
Ion Ratio Lower Upper  
152 100  
150 152.4 122.2 183.4  
115 62.0 49.8 74.6

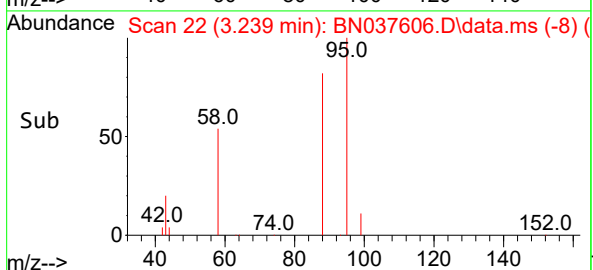
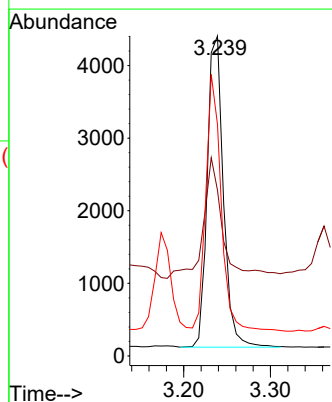
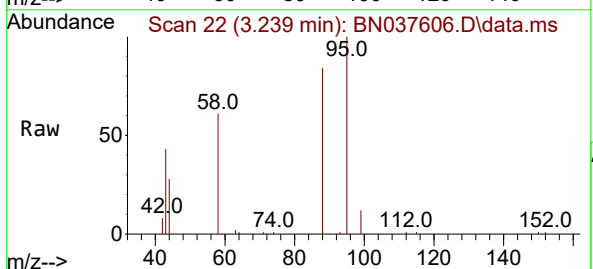
Manual Integrations  
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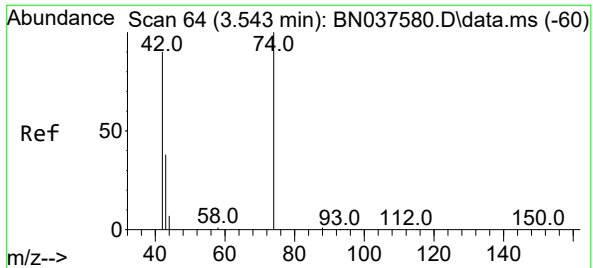
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#2  
1,4-Dioxane  
Concen: 2.862 ng  
RT: 3.239 min Scan# 22  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

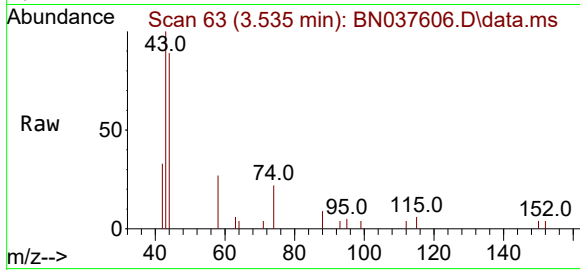
Tgt Ion: 88 Resp: 5537  
Ion Ratio Lower Upper  
88 100  
43 47.0 25.8 38.6#  
58 77.2 61.2 91.8





#3  
n-Nitrosodimethylamine  
Concen: 0.167 ng  
RT: 3.535 min Scan# 61  
Delta R.T. -0.008 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

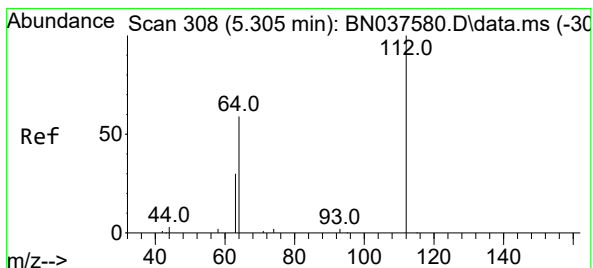
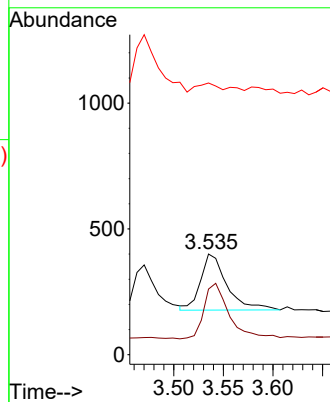
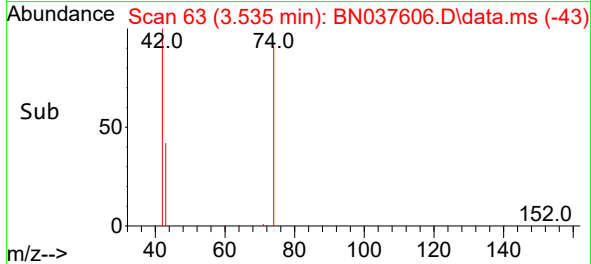
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD



Tgt Ion: 42 Resp: 412  
Ion Ratio Lower Upper  
42 100  
74 97.1 82.0 123.0  
44 16.7 7.9 11.9

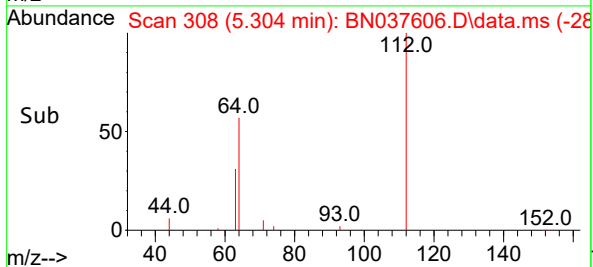
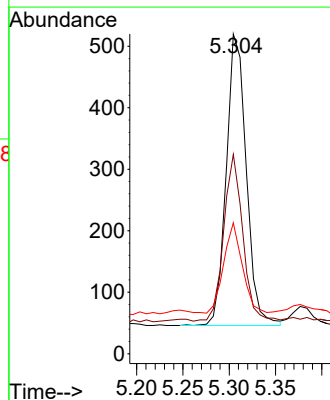
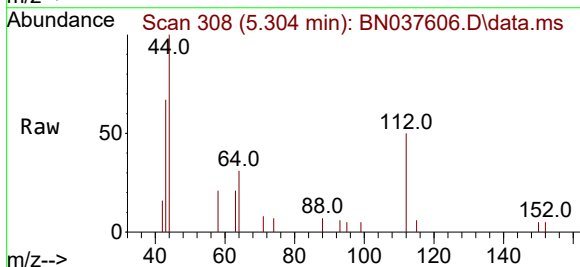
Manual Integrations  
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Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025

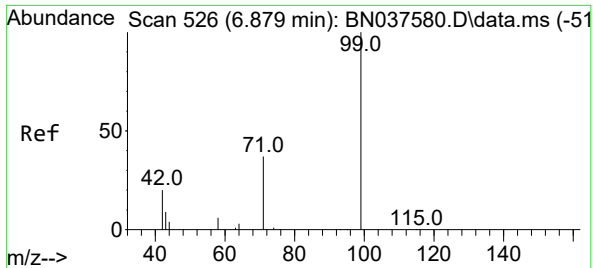


#4  
2-Fluorophenol  
Concen: 0.156 ng  
RT: 5.304 min Scan# 308  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

Tgt Ion:112 Resp: 713  
Ion Ratio Lower Upper  
112 100  
64 54.3 44.9 67.3  
63 29.5 23.4 35.2

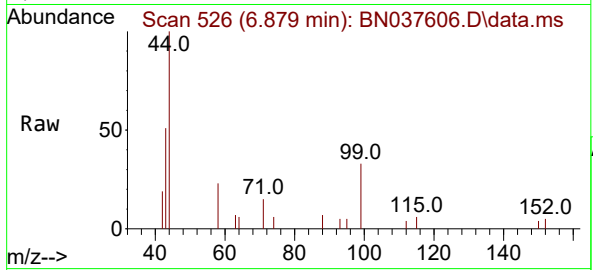






#5  
Phenol-d6  
Concen: 0.090 ng  
RT: 6.879 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

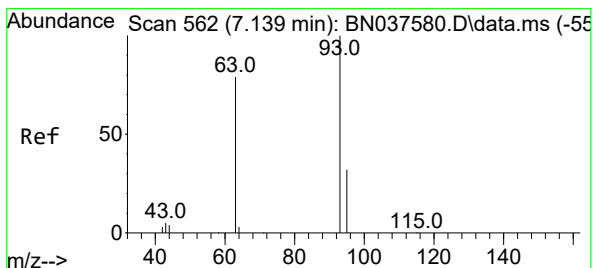
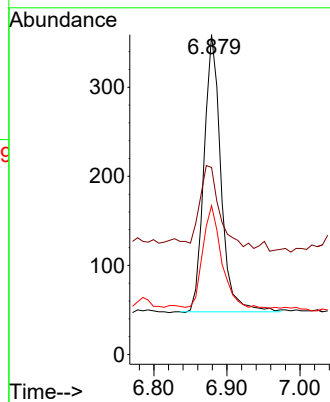
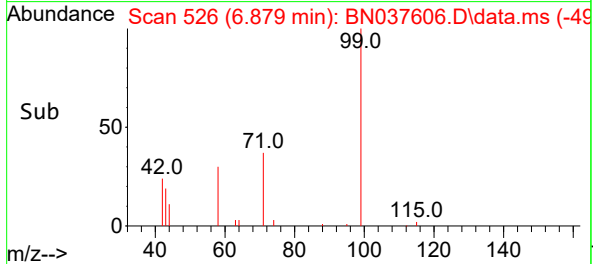
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD



Tgt Ion: 99 Resp: 499  
Ion Ratio Lower Upper  
99 100  
42 35.1 18.5 27.7  
71 41.1 28.6 42.8

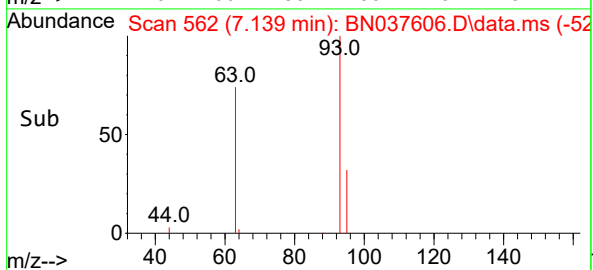
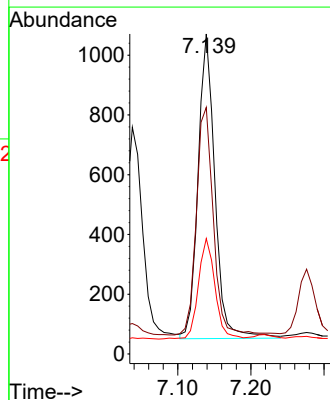
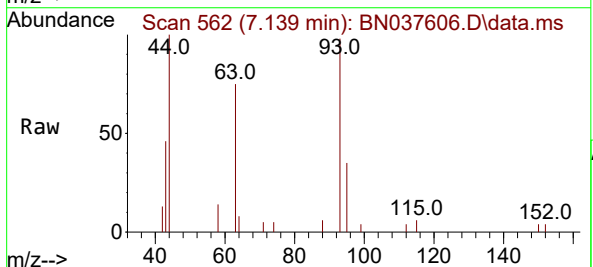
Manual Integrations  
APPROVED

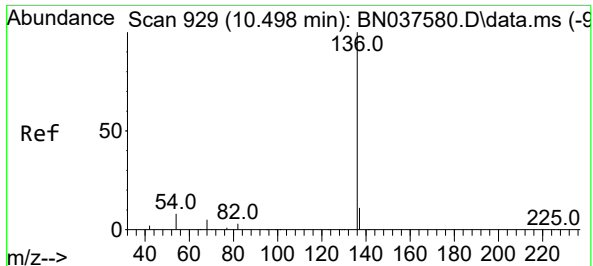
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.329 ng  
RT: 7.139 min Scan# 562  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

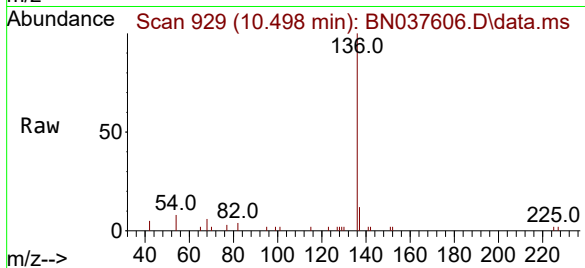
Tgt Ion: 93 Resp: 1634  
Ion Ratio Lower Upper  
93 100  
63 75.2 58.0 87.0  
95 32.4 24.9 37.3





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.498 min Scan# 929  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

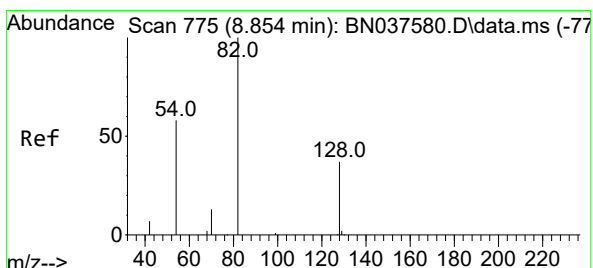
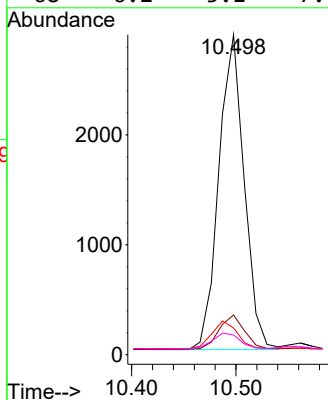
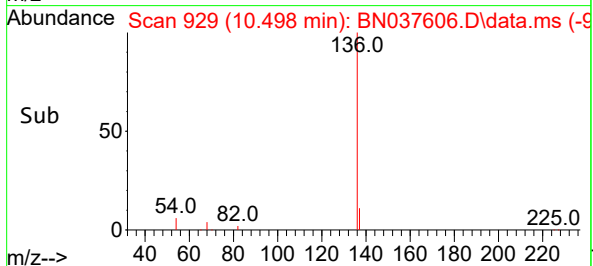
Instrument : BNA\_N  
ClientSampleId : MW-17B-55.5-081225MSD



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4839  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.4  | 9.5   | 14.3  |
| 54       | 8.4   | 7.3   | 10.9  |
| 68       | 6.2   | 5.1   | 7.7   |

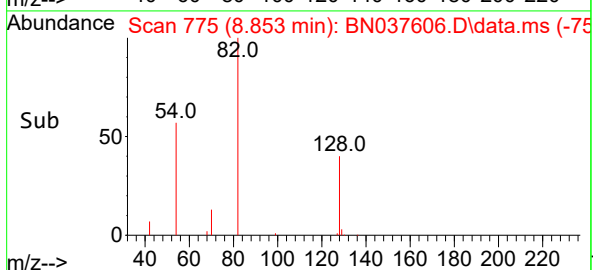
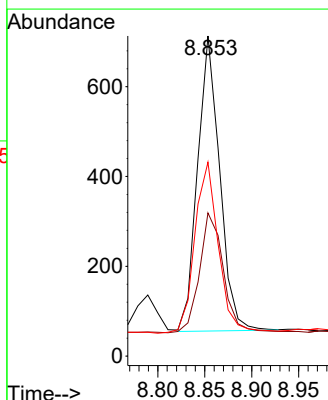
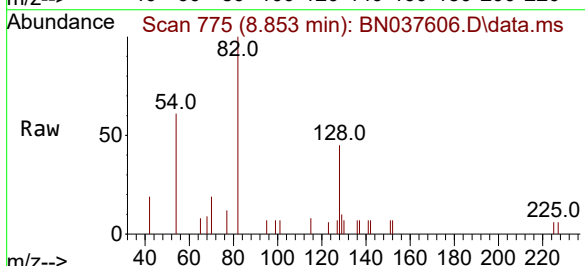
Manual Integrations  
APPROVED

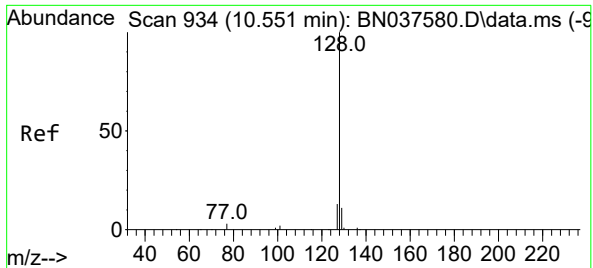
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#8  
Nitrobenzene-d5  
Concen: 0.317 ng  
RT: 8.853 min Scan# 775  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

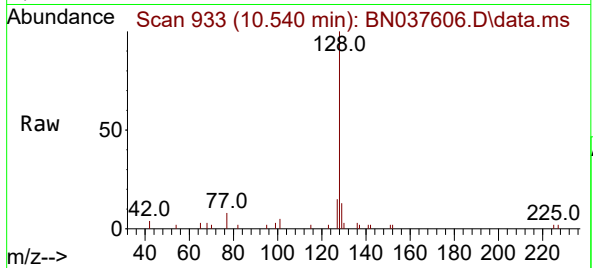
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1080  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 44.7  | 32.6  | 48.8  |
| 54       | 60.6  | 48.9  | 73.3  |





#9  
Naphthalene  
Concen: 0.333 ng  
RT: 10.540 min Scan# 911  
Delta R.T. -0.011 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

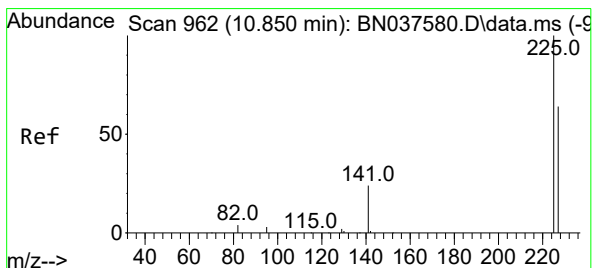
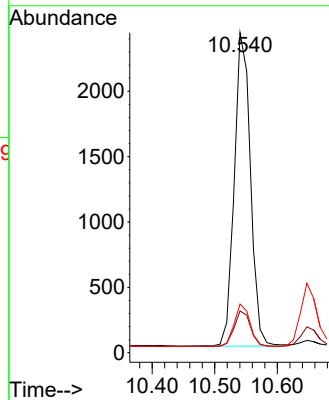
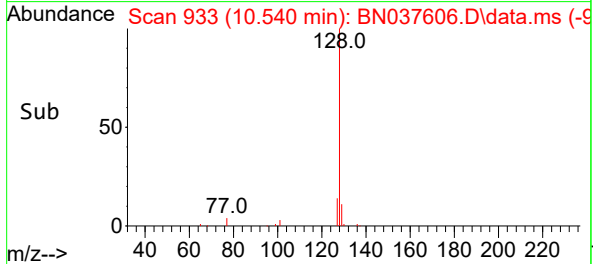
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD



Tgt Ion:128 Resp: 4289  
Ion Ratio Lower Upper  
128 100  
129 13.1 9.8 14.6  
127 15.2 11.5 17.3

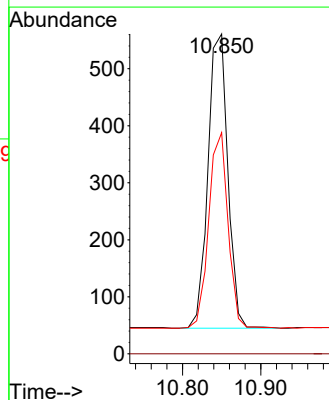
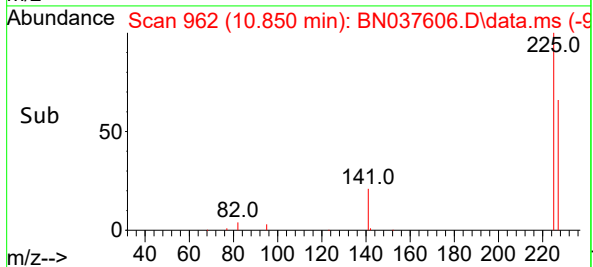
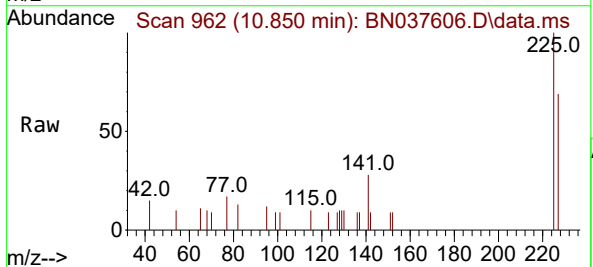
Manual Integrations  
APPROVED

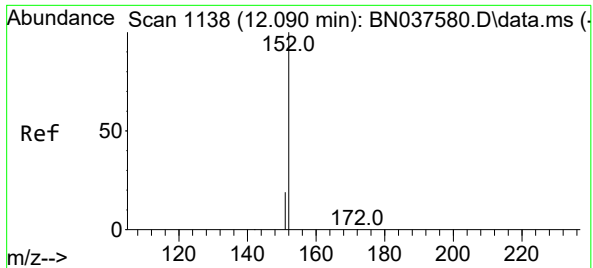
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#10  
Hexachlorobutadiene  
Concen: 0.289 ng  
RT: 10.850 min Scan# 962  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

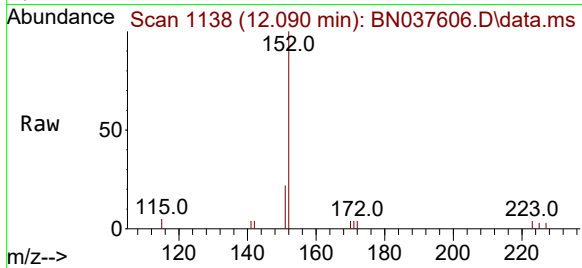
Tgt Ion:225 Resp: 911  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.4 50.8 76.2





#11  
2-Methylnaphthalene-d10  
Concen: 0.303 ng m  
RT: 12.090 min Scan# 1138  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

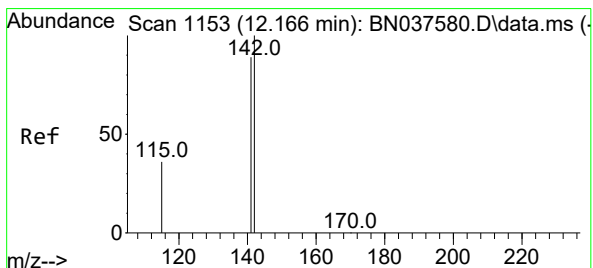
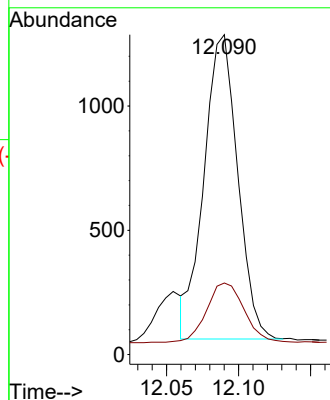
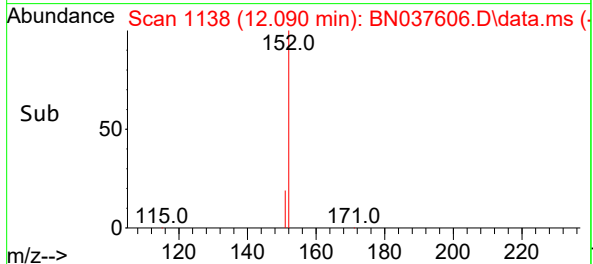
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD



Tgt Ion:152 Resp: 199  
Ion Ratio Lower Upper  
152 100  
151 22.1 17.3 25.9

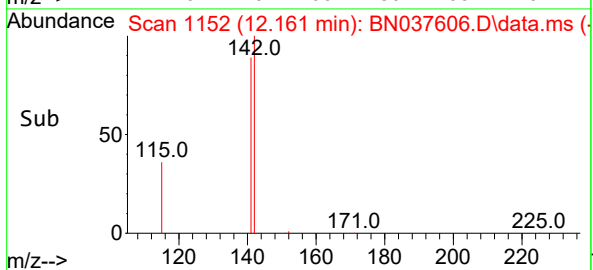
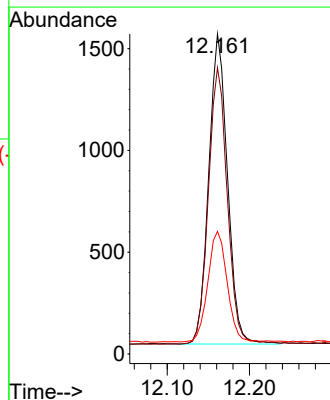
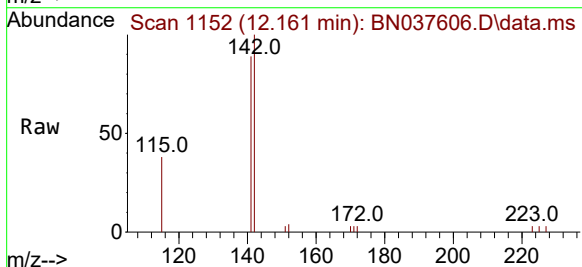
Manual Integrations  
APPROVED

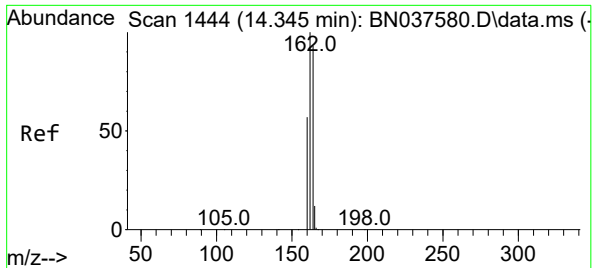
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#12  
2-Methylnaphthalene  
Concen: 0.298 ng  
RT: 12.161 min Scan# 1152  
Delta R.T. -0.005 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

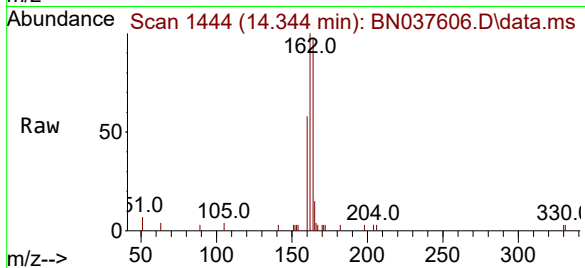
Tgt Ion:142 Resp: 2410  
Ion Ratio Lower Upper  
142 100  
141 89.4 71.4 107.0  
115 38.4 30.2 45.4





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.344 min Scan# 1444  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

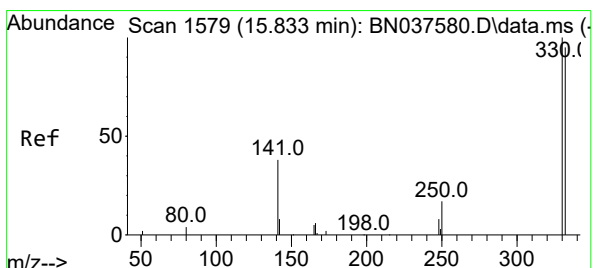
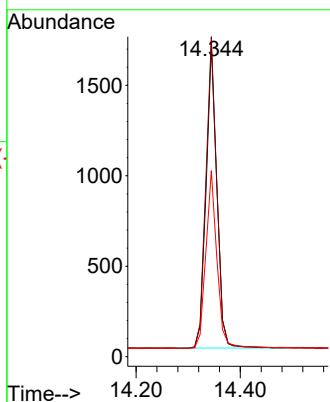
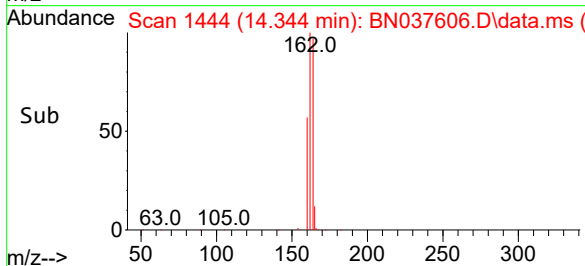
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD



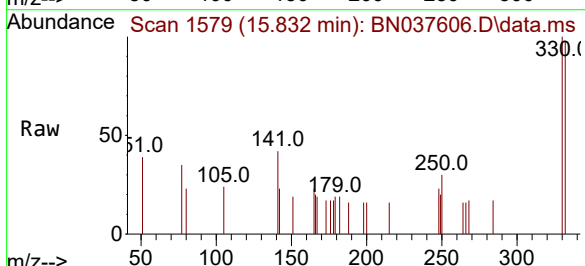
Tgt Ion:164 Resp: 2400  
Ion Ratio Lower Upper  
164 100  
162 102.4 85.5 128.3  
160 59.6 49.5 74.3

Manual Integrations  
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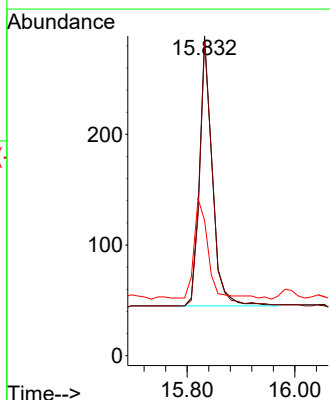
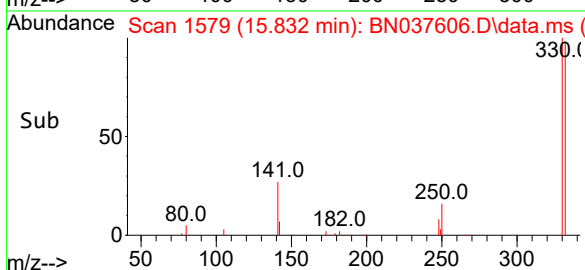
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025

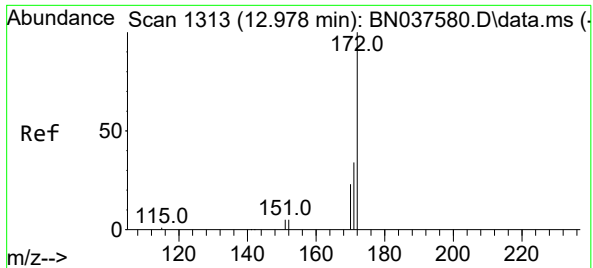


#14  
2,4,6-Tribromophenol  
Concen: 0.381 ng  
RT: 15.832 min Scan# 1579  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17



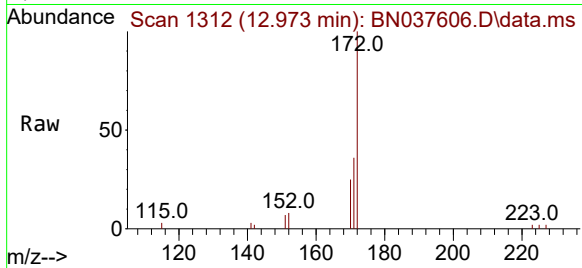
Tgt Ion:330 Resp: 401  
Ion Ratio Lower Upper  
330 100  
332 98.3 77.4 116.0  
141 42.6 30.9 46.3





#15  
2-Fluorobiphenyl  
Concen: 0.324 ng  
RT: 12.973 min Scan# 1313  
Delta R.T. -0.005 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

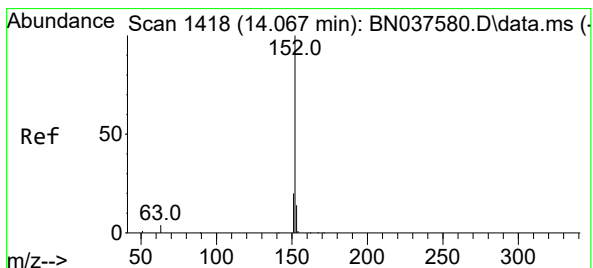
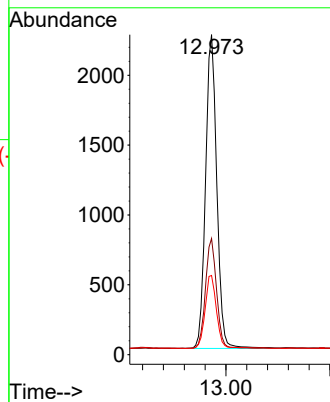
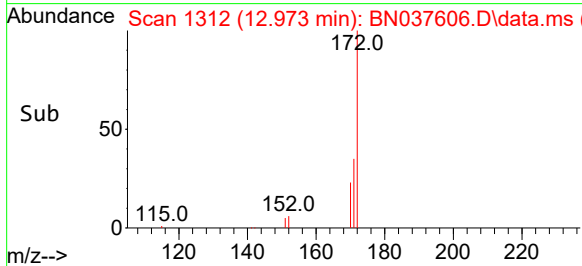
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD



Tgt Ion:172 Resp: 4509  
Ion Ratio Lower Upper  
172 100  
171 36.3 28.2 42.4  
170 24.7 19.2 28.8

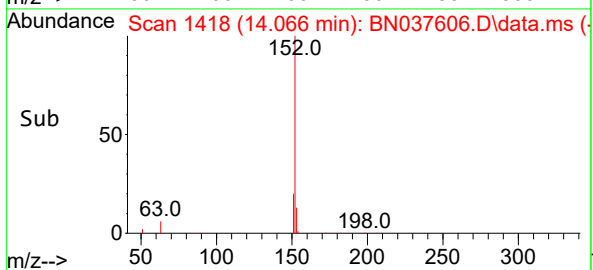
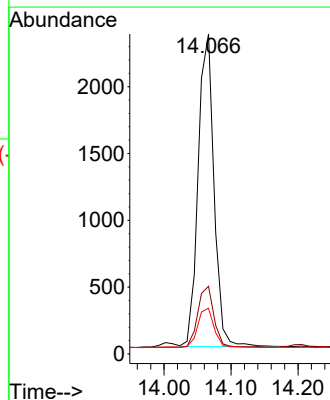
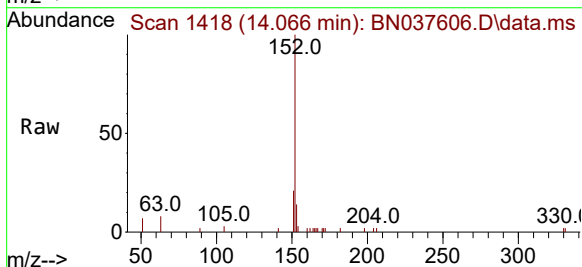
Manual Integrations  
APPROVED

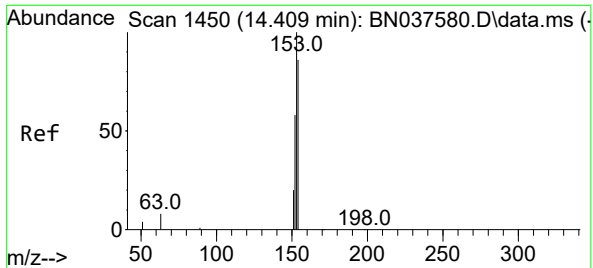
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#16  
Acenaphthylene  
Concen: 0.357 ng  
RT: 14.066 min Scan# 1418  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

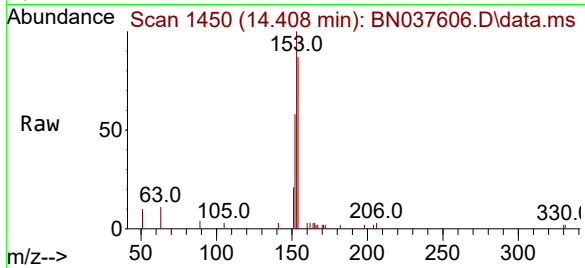
Tgt Ion:152 Resp: 3852  
Ion Ratio Lower Upper  
152 100  
151 19.8 16.1 24.1  
153 13.3 10.7 16.1





#17  
Acenaphthene  
Concen: 0.336 ng  
RT: 14.408 min Scan# 1450  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

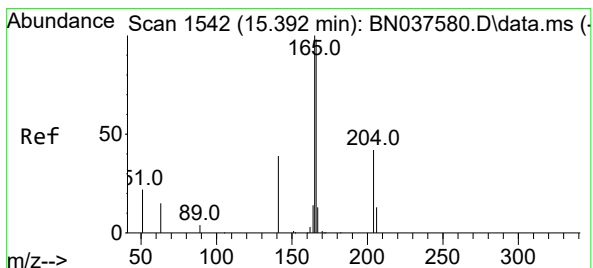
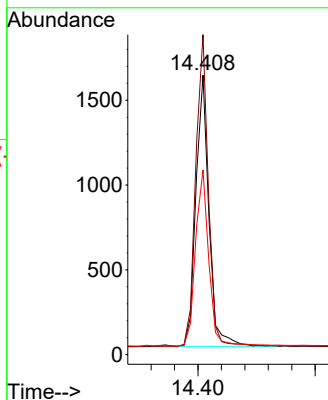
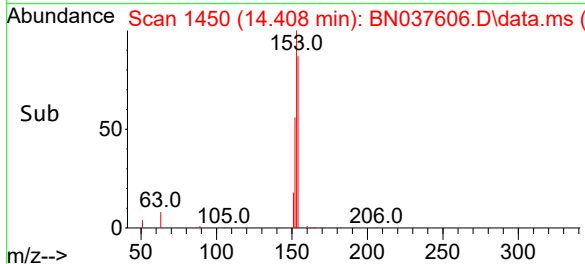
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD



Tgt Ion:154 Resp: 2460  
Ion Ratio Lower Upper  
154 100  
153 111.9 90.6 135.8  
152 66.6 54.9 82.3

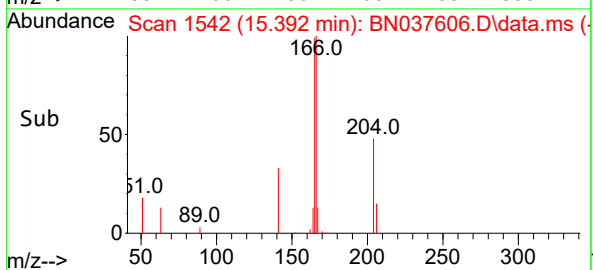
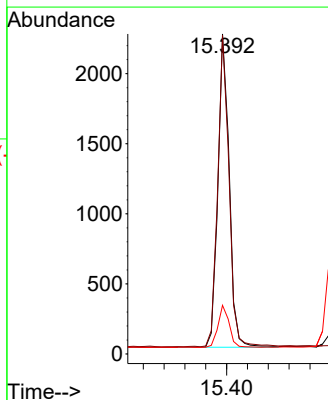
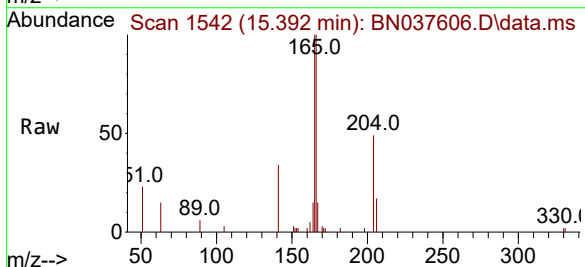
Manual Integrations  
APPROVED

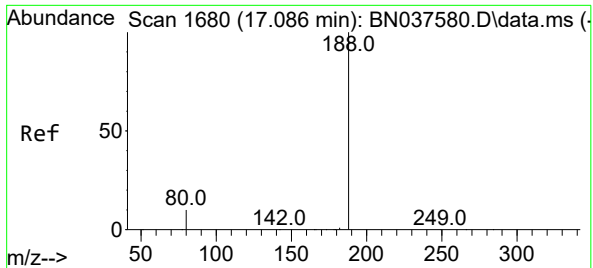
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#18  
Fluorene  
Concen: 0.350 ng  
RT: 15.392 min Scan# 1542  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

Tgt Ion:166 Resp: 3360  
Ion Ratio Lower Upper  
166 100  
165 99.8 78.9 118.3  
167 13.5 10.7 16.1





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.086 min Scan# 1680

Delta R.T. -0.000 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MSD

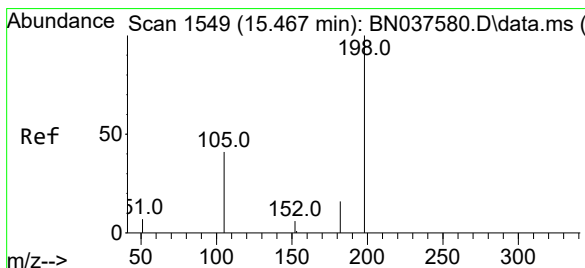
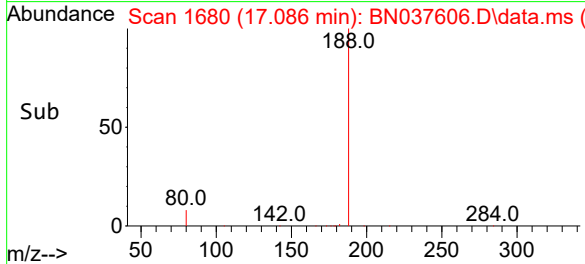
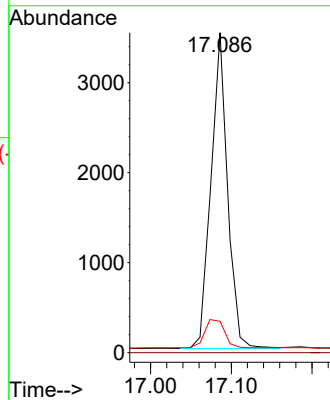
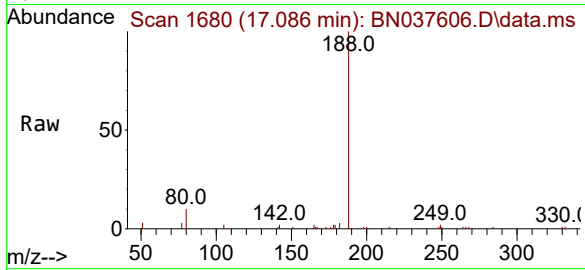
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 188   | Resp: | 500  |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 9.8   | 9.1   | 13.7 |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.441 ng

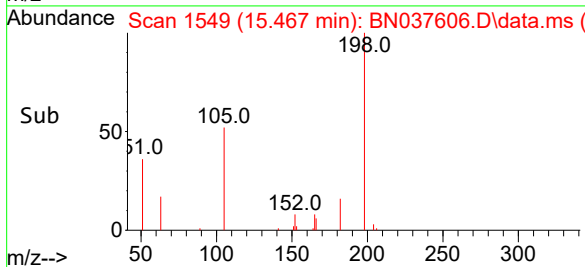
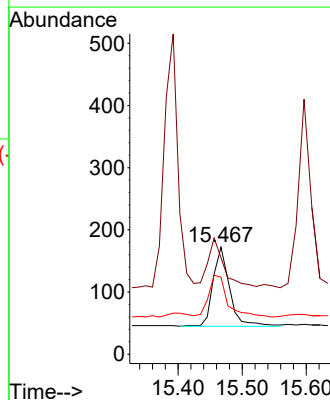
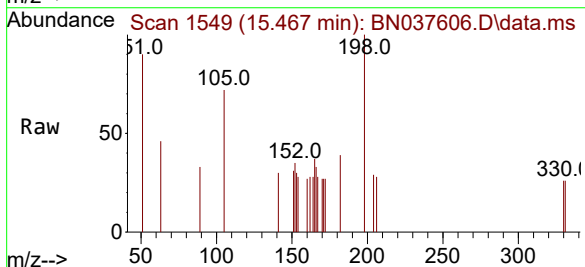
RT: 15.467 min Scan# 1549

Delta R.T. -0.000 min

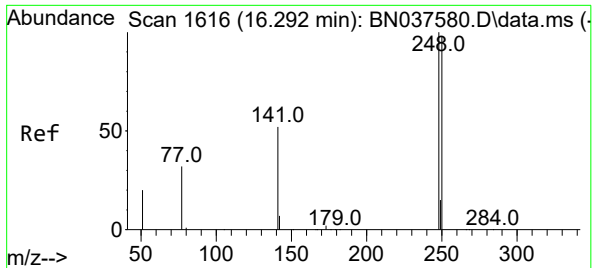
Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 198   | Resp: | 237   |
| Ion Ratio | Lower | Upper |       |
| 198       | 100   |       |       |
| 51        | 90.1  | 81.0  | 121.6 |
| 105       | 72.1  | 52.5  | 78.7  |

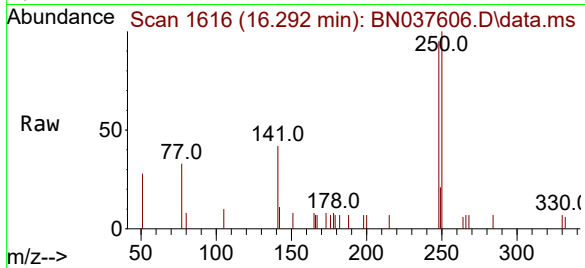






#21  
4-Bromophenyl-phenylether  
Concen: 0.353 ng  
RT: 16.292 min Scan# 1616  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

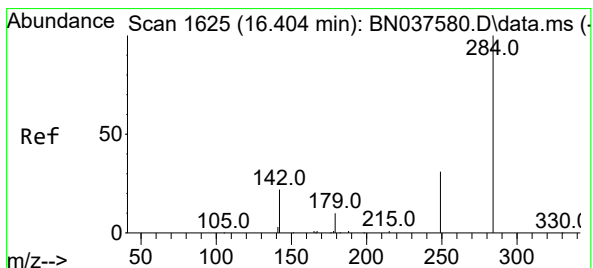
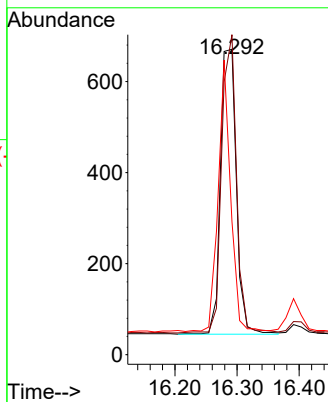
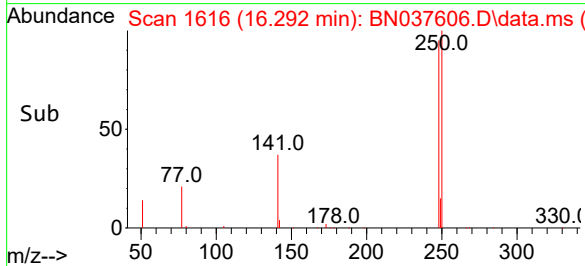
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD



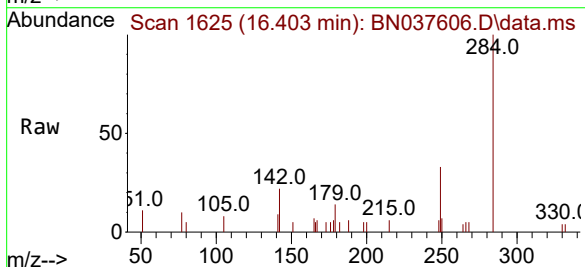
Tgt Ion:248 Resp: 111  
Ion Ratio Lower Upper  
248 100  
250 104.8 78.6 118.0  
141 43.7 43.7 65.5

Manual Integrations  
APPROVED

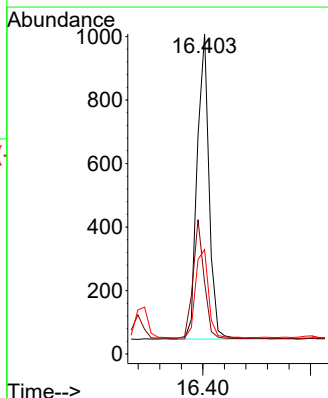
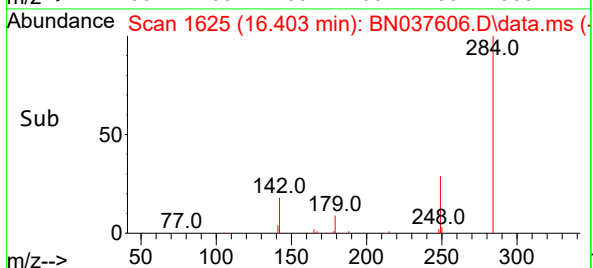
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025

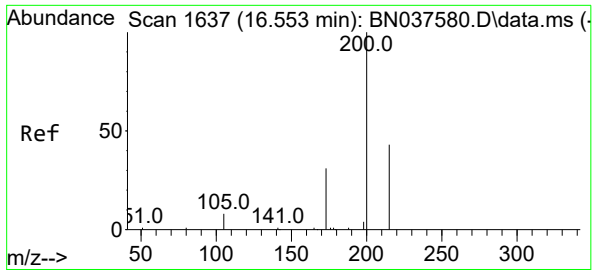


#22  
Hexachlorobenzene  
Concen: 0.331 ng  
RT: 16.403 min Scan# 1625  
Delta R.T. -0.001 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17



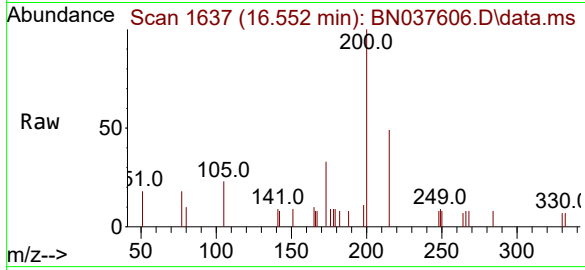
Tgt Ion:284 Resp: 1477  
Ion Ratio Lower Upper  
284 100  
142 36.2 29.8 44.6  
249 31.6 26.0 39.0





#23  
Atrazine  
Concen: 0.449 ng  
RT: 16.552 min Scan# 1637  
Delta R.T. -0.001 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

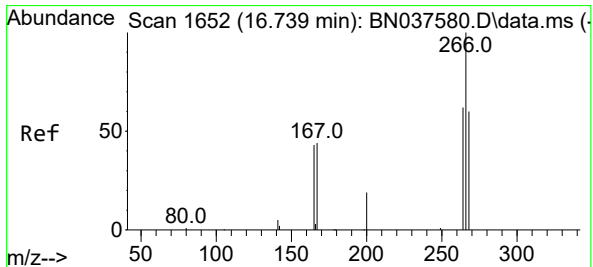
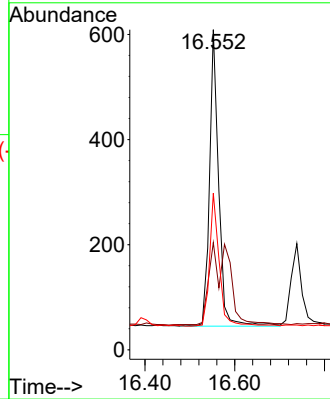
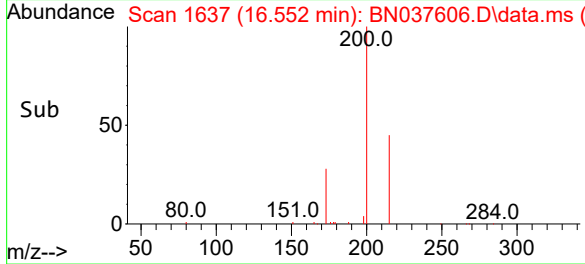
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD



Tgt Ion:200 Resp: 799  
Ion Ratio Lower Upper  
200 100  
173 33.5 31.0 46.4  
215 48.9 39.4 59.0

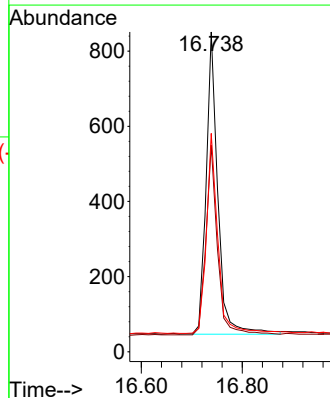
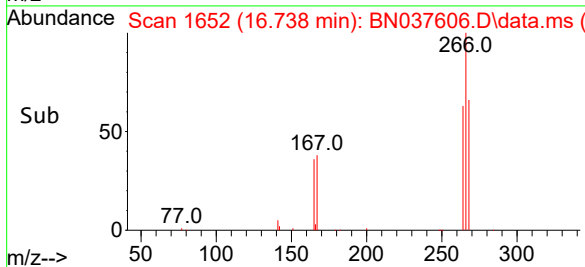
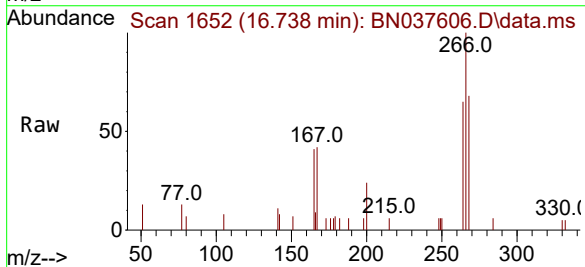
Manual Integrations  
APPROVED

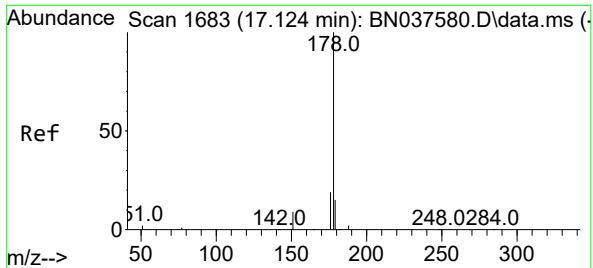
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#24  
Pentachlorophenol  
Concen: 0.826 ng  
RT: 16.738 min Scan# 1652  
Delta R.T. -0.001 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

Tgt Ion:266 Resp: 1294  
Ion Ratio Lower Upper  
266 100  
264 62.4 49.6 74.4  
268 65.3 49.2 73.8





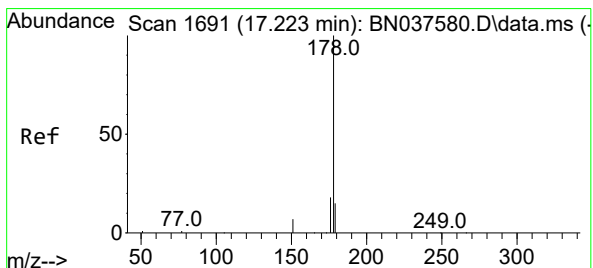
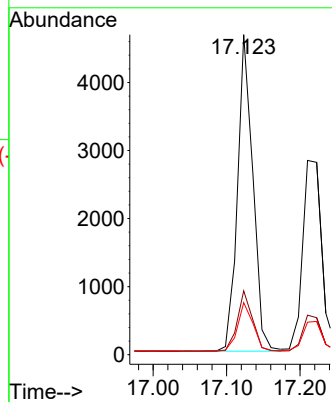
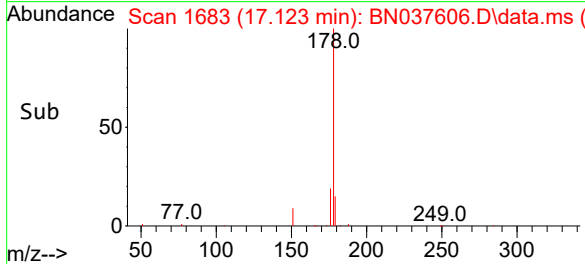
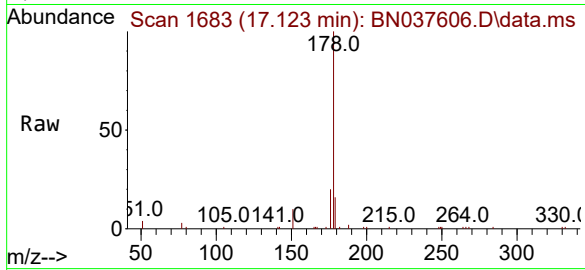
#25  
Phenanthrene  
Concen: 0.443 ng  
RT: 17.123 min Scan# 1683  
Delta R.T. -0.000 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD

Tgt Ion:178 Resp: 6750  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.6  
179 15.6 12.3 18.5

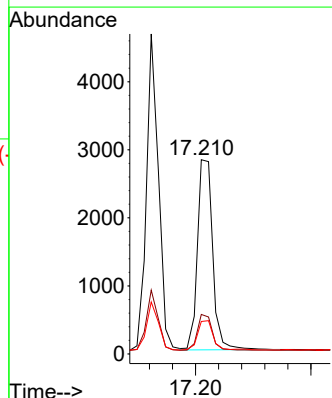
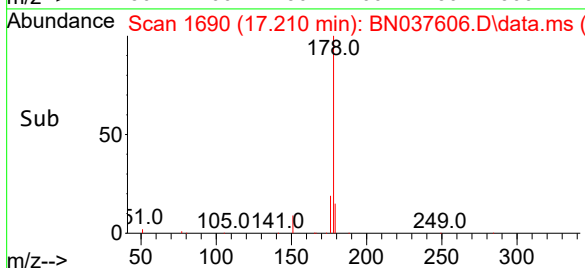
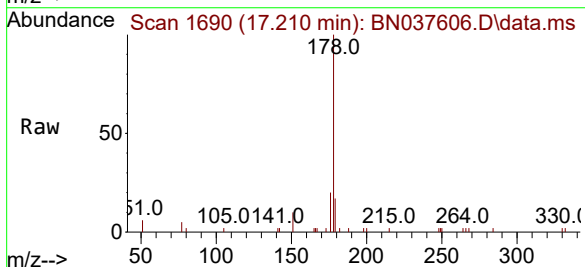
Manual Integrations  
APPROVED

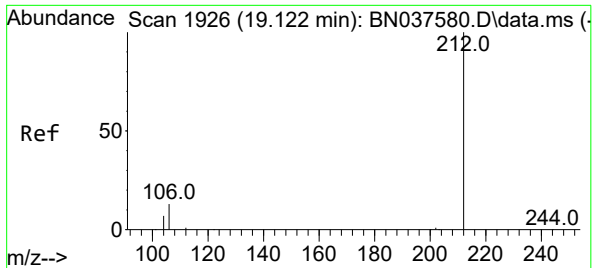
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#26  
Anthracene  
Concen: 0.381 ng  
RT: 17.210 min Scan# 1690  
Delta R.T. -0.013 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

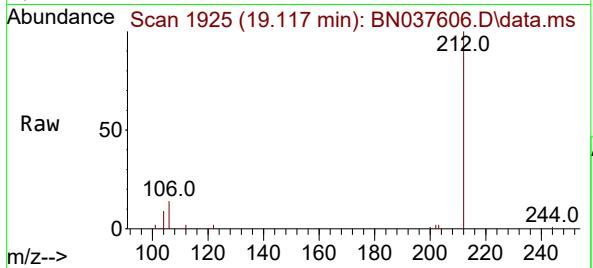
Tgt Ion:178 Resp: 5136  
Ion Ratio Lower Upper  
178 100  
176 18.5 14.7 22.1  
179 15.8 12.3 18.5





#27  
Fluoranthene-d10  
Concen: 0.371 ng  
RT: 19.117 min Scan# 1925  
Delta R.T. -0.005 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

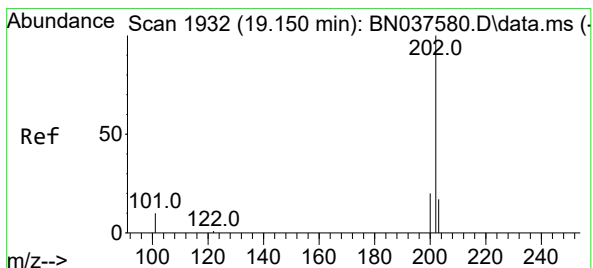
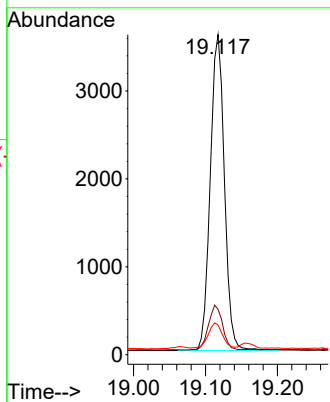
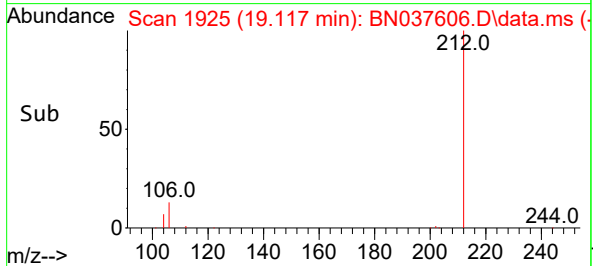
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD



Tgt Ion:212 Resp: 4894  
Ion Ratio Lower Upper  
212 100  
106 14.0 11.5 17.3  
104 8.3 6.6 9.8

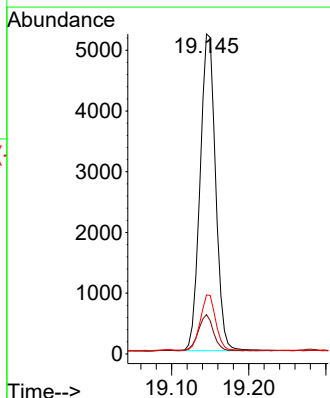
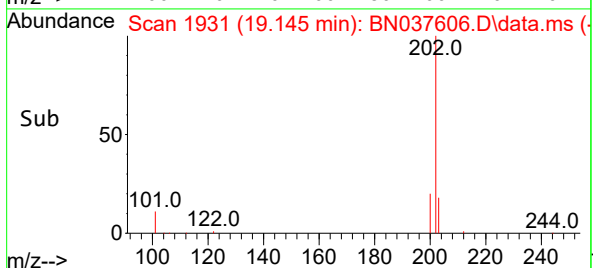
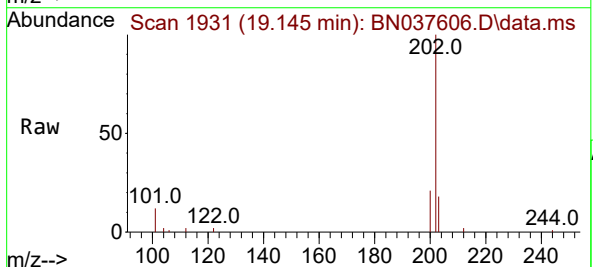
Manual Integrations  
**APPROVED**

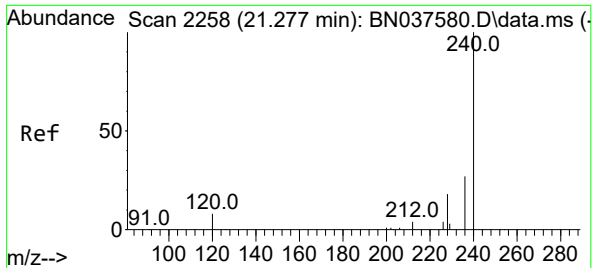
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#28  
Fluoranthene  
Concen: 0.418 ng  
RT: 19.145 min Scan# 1931  
Delta R.T. -0.005 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

Tgt Ion:202 Resp: 7312  
Ion Ratio Lower Upper  
202 100  
101 11.1 9.0 13.6  
203 17.2 13.8 20.8





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.267 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037606.D

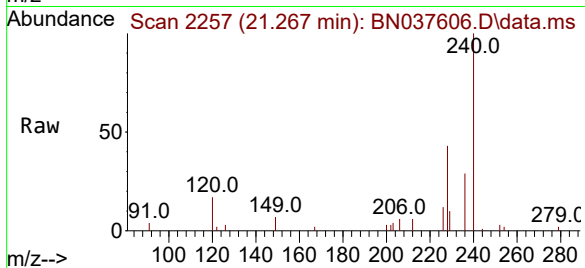
Acq: 19 Aug 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MSD



Tgt Ion:240 Resp: 456

Ion Ratio Lower Upper

240 100

120 17.2 8.9 13.3

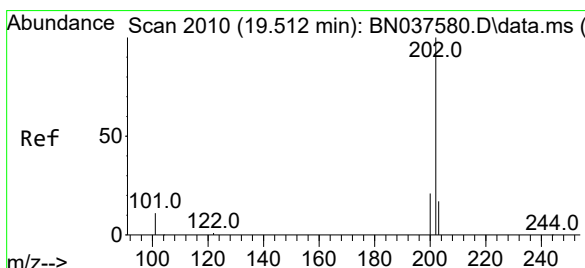
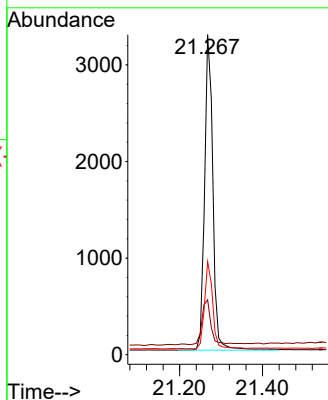
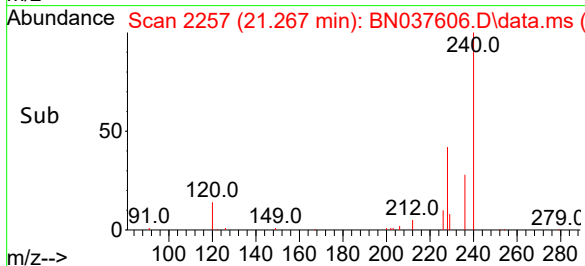
236 29.1 22.6 33.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#30

Pyrene

Concen: 0.415 ng

RT: 19.508 min Scan# 2009

Delta R.T. -0.005 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

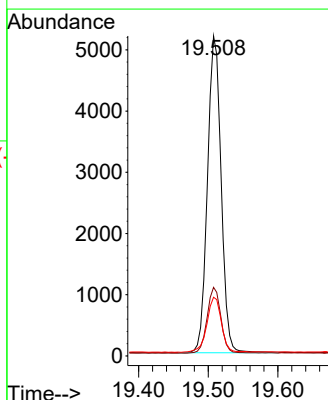
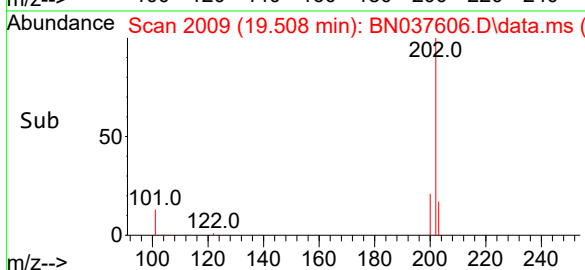
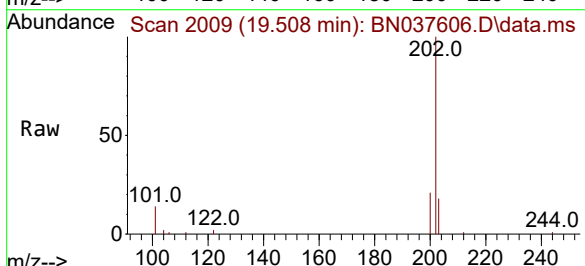
Tgt Ion:202 Resp: 7072

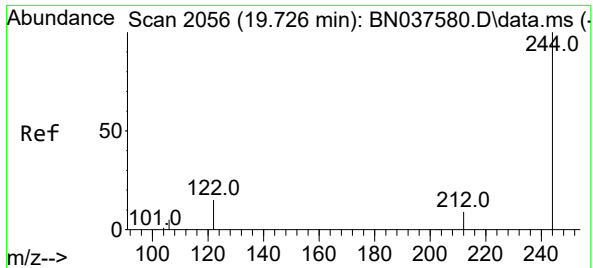
Ion Ratio Lower Upper

202 100

200 20.7 16.6 25.0

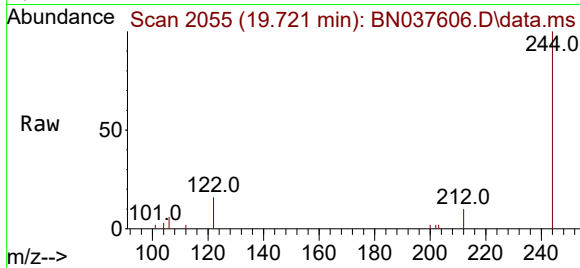
203 18.3 14.3 21.5





#31  
Terphenyl-d14  
Concen: 0.468 ng  
RT: 19.721 min Scan# 2055  
Delta R.T. -0.005 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

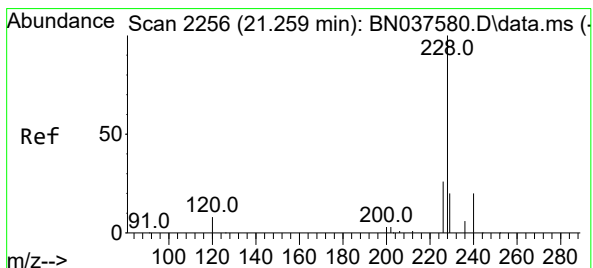
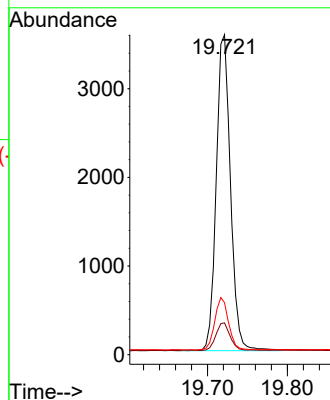
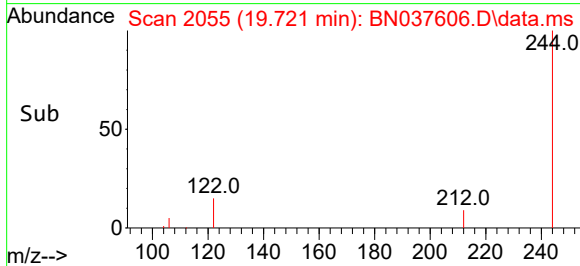
Instrument :  
BNA\_N  
ClientSampleId :  
MW-17B-55.5-081225MSD



Tgt Ion:244 Resp: 439  
Ion Ratio Lower Upper  
244 100  
212 10.0 8.2 12.2  
122 16.2 13.2 19.8

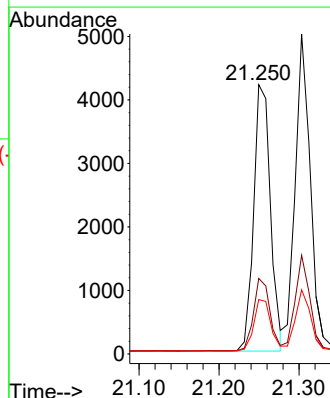
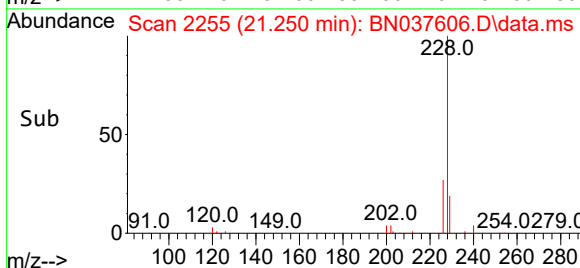
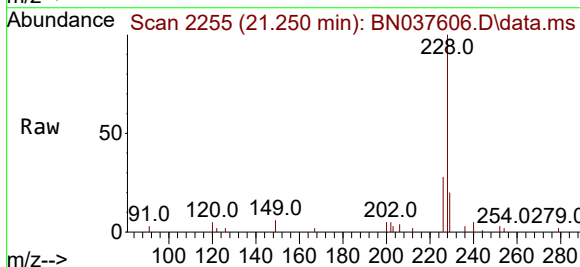
Manual Integrations  
APPROVED

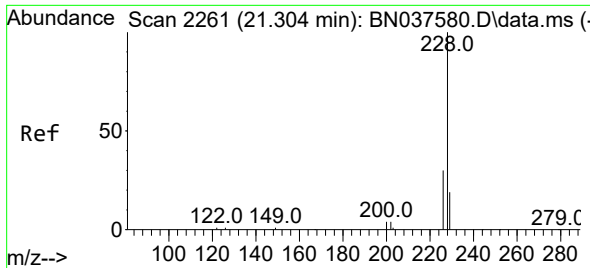
Reviewed By :Rahul Chavli 08/20/2025  
Supervised By :Jagrut Upadhyay 08/20/2025



#32  
Benzo(a)anthracene  
Concen: 0.402 ng  
RT: 21.250 min Scan# 2255  
Delta R.T. -0.009 min  
Lab File: BN037606.D  
Acq: 19 Aug 2025 14:17

Tgt Ion:228 Resp: 6132  
Ion Ratio Lower Upper  
228 100  
226 28.0 21.5 32.3  
229 20.2 16.5 24.7





#33

Chrysene

Concen: 0.394 ng

RT: 21.303 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037606.D

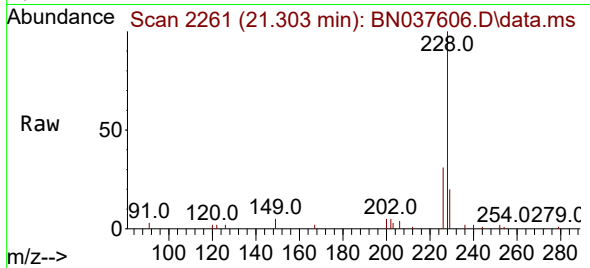
Acq: 19 Aug 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MSD



Tgt Ion:228 Resp: 6692

Ion Ratio Lower Upper

228 100

226 30.8 24.9 37.3

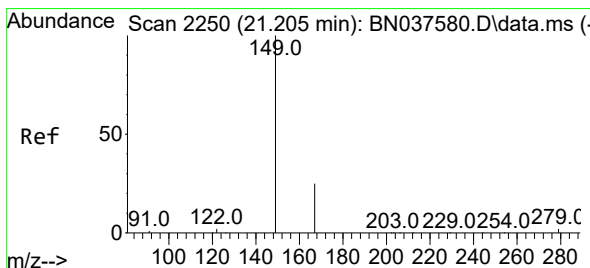
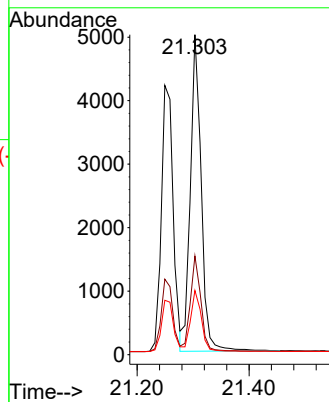
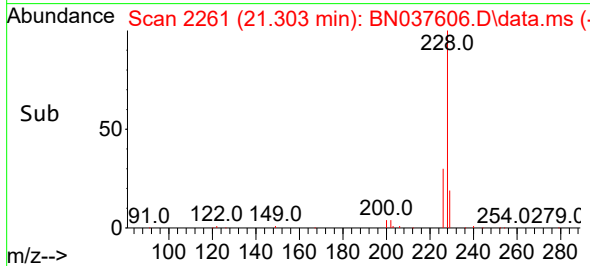
229 20.1 15.8 23.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.558 ng

RT: 21.205 min Scan# 2250

Delta R.T. -0.000 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

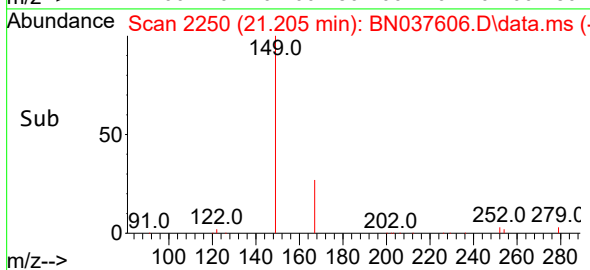
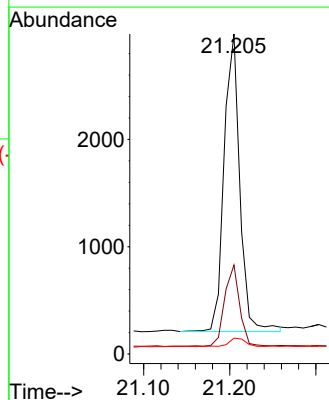
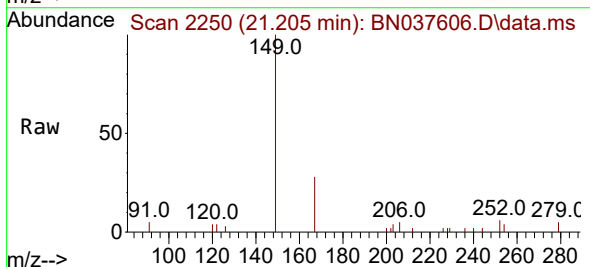
Tgt Ion:149 Resp: 3509

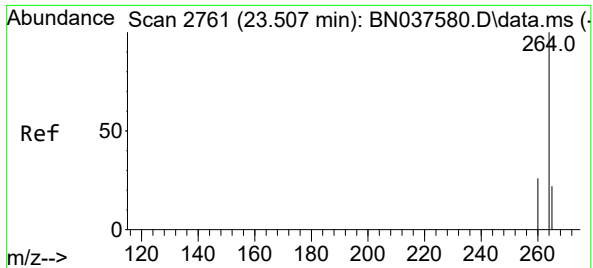
Ion Ratio Lower Upper

149 100

167 25.9 20.5 30.7

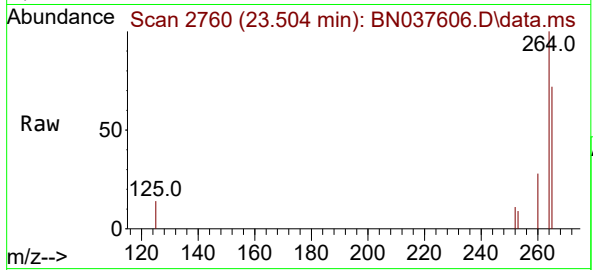
279 3.1 2.6 4.0





#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.504 min Scan# 21  
 Delta R.T. -0.003 min  
 Lab File: BN037606.D  
 Acq: 19 Aug 2025 14:17

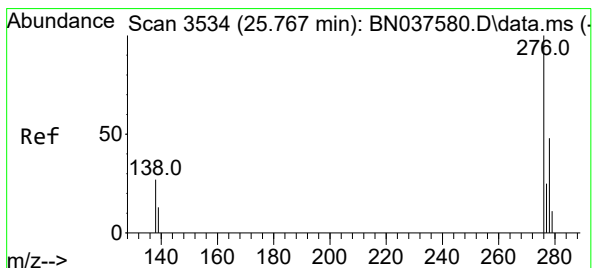
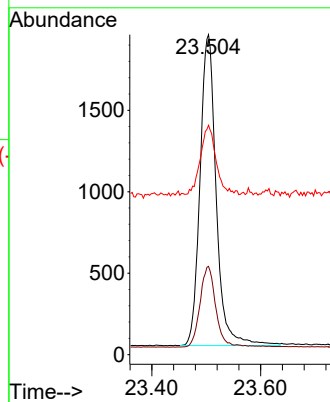
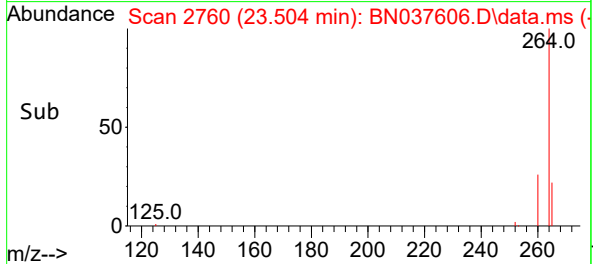
Instrument :  
 BNA\_N  
 ClientSampleId :  
 MW-17B-55.5-081225MSD



Tgt Ion:264 Resp: 393  
 Ion Ratio Lower Upper  
 264 100  
 260 27.6 21.6 32.4  
 265 71.7 48.2 72.4

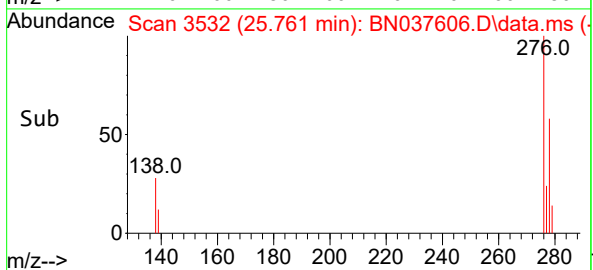
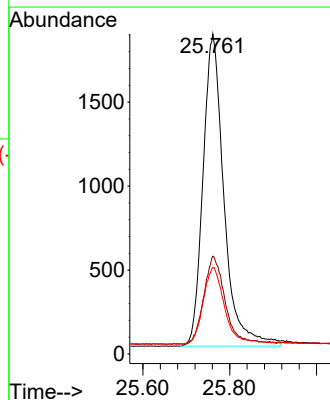
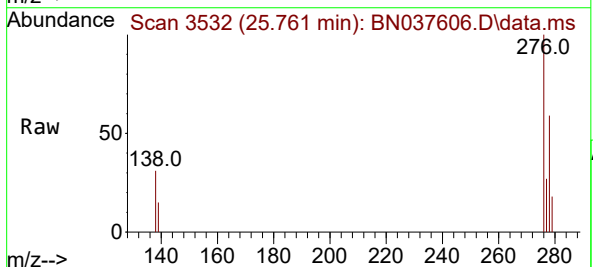
Manual Integrations  
 APPROVED

Reviewed By :Rahul Chavli 08/20/2025  
 Supervised By :Jagrut Upadhyay 08/20/2025

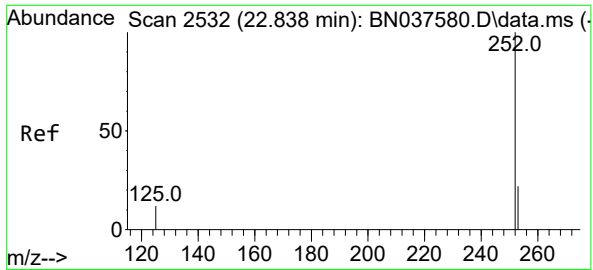


#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.376 ng  
 RT: 25.761 min Scan# 3532  
 Delta R.T. -0.006 min  
 Lab File: BN037606.D  
 Acq: 19 Aug 2025 14:17

Tgt Ion:276 Resp: 6228  
 Ion Ratio Lower Upper  
 276 100  
 138 28.3 23.3 34.9  
 277 25.2 19.5 29.3







#37

Benzo(b)fluoranthene

Concen: 0.420 ng

RT: 22.832 min Scan# 2532

Delta R.T. -0.006 min

Lab File: BN037606.D

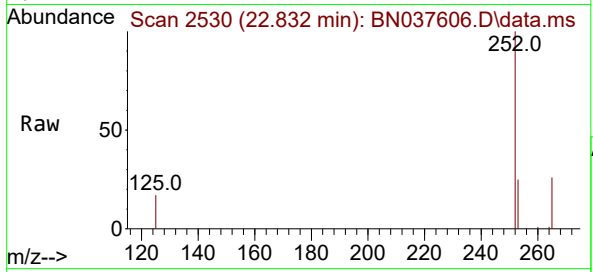
Acq: 19 Aug 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MSD



Tgt Ion:252 Resp: 626

Ion Ratio Lower Upper

252 100

253 25.2 20.0 30.0

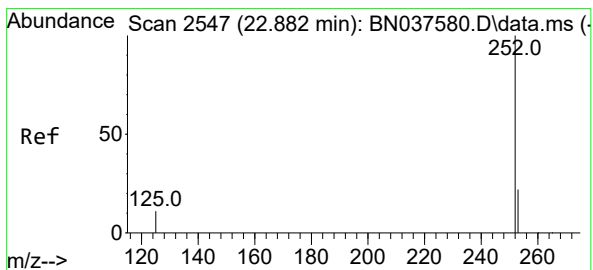
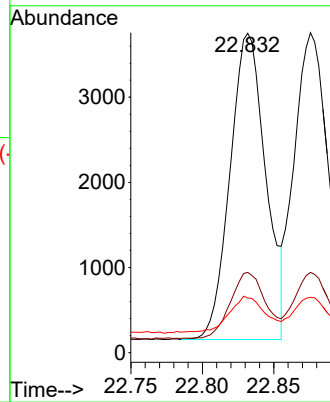
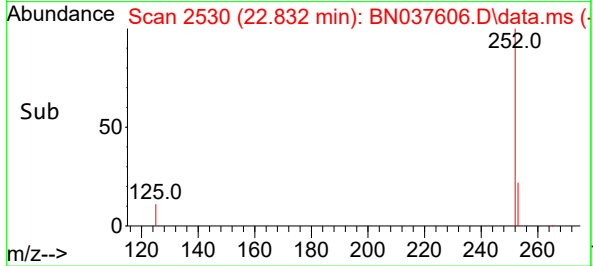
125 17.1 13.8 20.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#38

Benzo(k)fluoranthene

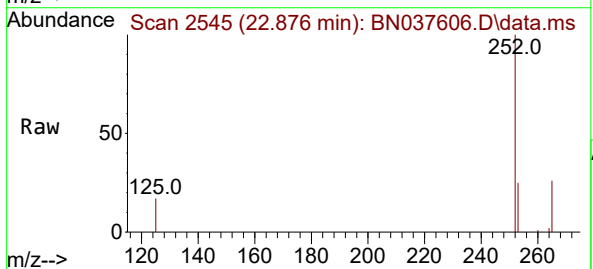
Concen: 0.373 ng

RT: 22.876 min Scan# 2545

Delta R.T. -0.006 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17



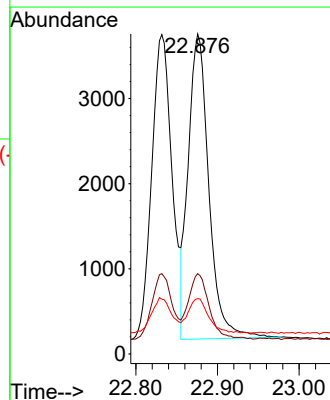
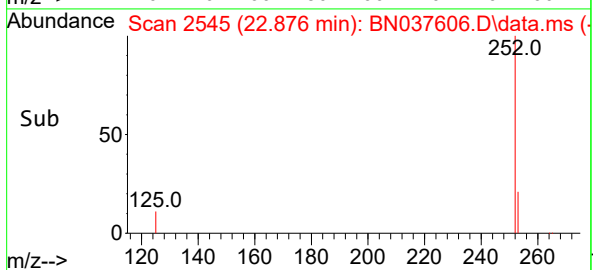
Tgt Ion:252 Resp: 6279

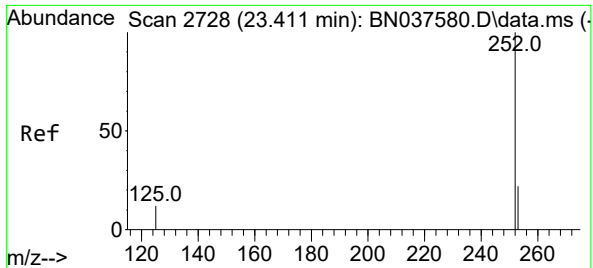
Ion Ratio Lower Upper

252 100

253 25.1 19.9 29.9

125 17.3 15.0 22.6





#39

Benzo(a)pyrene

Concen: 0.415 ng

RT: 23.405 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037606.D

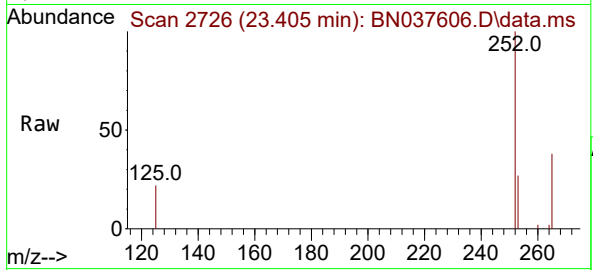
Acq: 19 Aug 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MSD



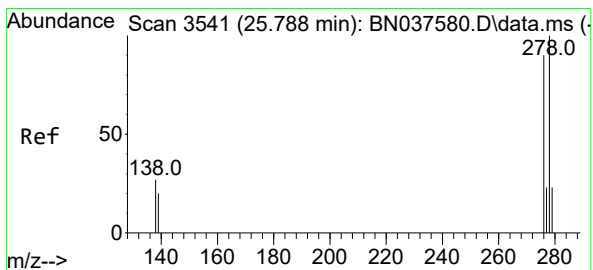
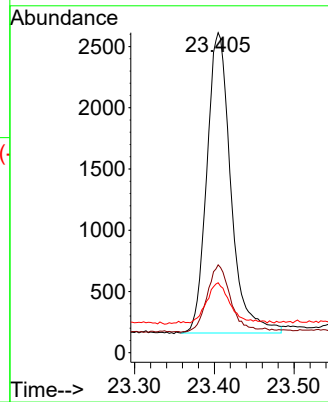
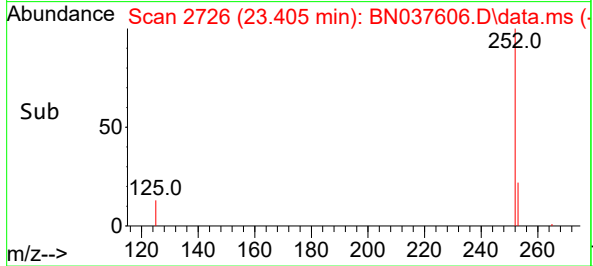
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 252     | 100   |       |       |
| 253     | 27.4  | 21.6  | 32.4  |
| 125     | 21.9  | 16.8  | 25.2  |

Manual Integrations

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Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025



#40

Dibenzo(a,h)anthracene

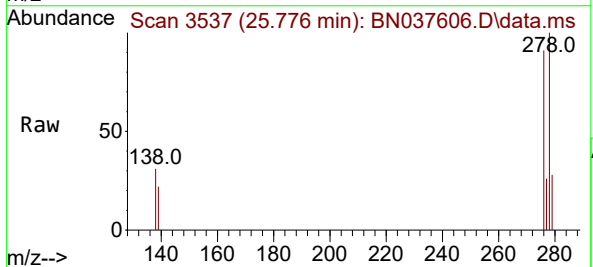
Concen: 0.369 ng

RT: 25.776 min Scan# 3537

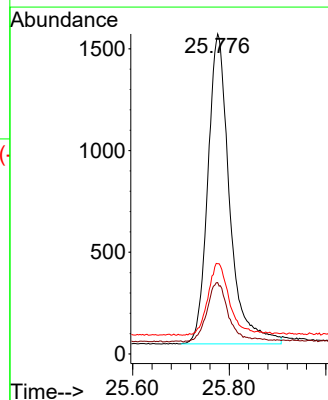
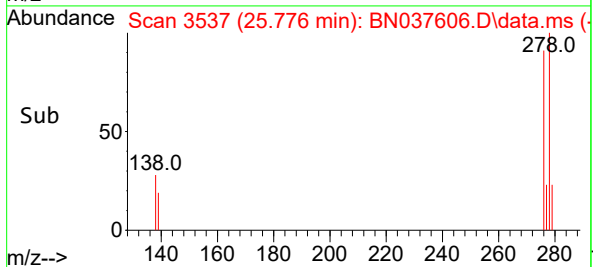
Delta R.T. -0.012 min

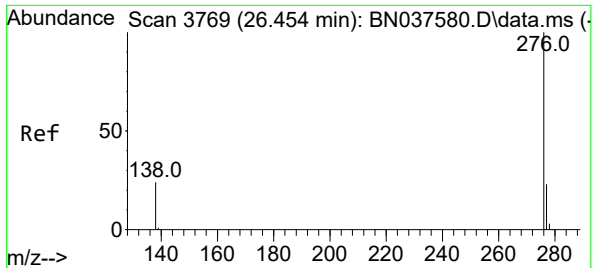
Lab File: BN037606.D

Acq: 19 Aug 2025 14:17



| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 278     | 100   |       |       |
| 139     | 22.3  | 18.3  | 27.5  |
| 279     | 28.2  | 22.5  | 33.7  |





#41

Benzo(g,h,i)perylene

Concen: 0.401 ng

RT: 26.445 min Scan# 31

Delta R.T. -0.009 min

Lab File: BN037606.D

Acq: 19 Aug 2025 14:17

Instrument :

BNA\_N

ClientSampleId :

MW-17B-55.5-081225MSD

Tgt Ion:276 Resp: 543

Ion Ratio Lower Upper

276 100

277 26.2 21.0 31.4

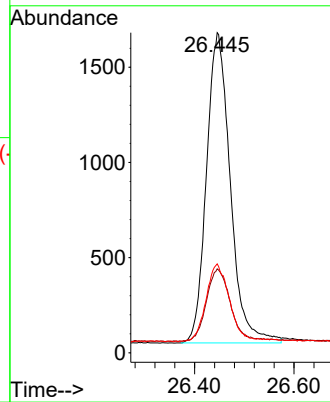
138 27.8 21.7 32.5

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 08/20/2025

Supervised By :Jagrut Upadhyay 08/20/2025





284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900, Fax : 908 789 8922

## Manual Integration Report

Sequence:

BN081225

Instrument

BNA\_n

Sample ID

File ID

Parameter

Review By

Review On

Supervised  
By

Supervised On

Reason

## Manual Integration Report

Sequence:

bn081925

Instrument

BNA\_n

| Sample ID   | File ID    | Parameter                   | Review By | Review On               | Supervised By | Supervised On           | Reason                      |
|-------------|------------|-----------------------------|-----------|-------------------------|---------------|-------------------------|-----------------------------|
| Q2842-04MS  | BN037605.D | 2-Methylnaphthalene-d1<br>0 | Rahul     | 8/20/2025 8:37:55<br>AM | Jagrut        | 8/20/2025 2:31:08<br>PM | Peak Integrated by Software |
| Q2842-05MSD | BN037606.D | 2-Methylnaphthalene-d1<br>0 | Rahul     | 8/20/2025 8:37:59<br>AM | Jagrut        | 8/20/2025 2:31:11<br>PM | Peak Integrated by Software |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN081225**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Rahul                                            | Review On         | 8/13/2025 11:25:23 AM                         |
| Supervise By             | Jagrut                                           | Supervise On      | 8/13/2025 11:26:50 AM                         |
| SubDirectory             | BN081225                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn081225 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6757                                           |                   |                                               |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |                   |                                               |
| CCC                      | SP6846                                           |                   |                                               |
| Internal Standard/PEM    | SP6830,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6854                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | DFTPP       | BN037576.D     | 12 Aug 2025 15:05 | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | BN037577.D     | 12 Aug 2025 15:49 | RC/JU    | Not Ok |
| 3   | SSTDICC0.1  | BN037578.D     | 12 Aug 2025 16:26 | RC/JU    | Ok     |
| 4   | SSTDICC0.2  | BN037579.D     | 12 Aug 2025 17:03 | RC/JU    | Ok     |
| 5   | SSTDICCC0.4 | BN037580.D     | 12 Aug 2025 17:39 | RC/JU    | Ok     |
| 6   | SSTDICC0.8  | BN037581.D     | 12 Aug 2025 18:16 | RC/JU    | Ok     |
| 7   | SSTDICC1.6  | BN037582.D     | 12 Aug 2025 18:52 | RC/JU    | Ok     |
| 8   | SSTDICC3.2  | BN037583.D     | 12 Aug 2025 19:29 | RC/JU    | Ok     |
| 9   | SSTDICC5.0  | BN037584.D     | 12 Aug 2025 20:05 | RC/JU    | Ok     |
| 10  | SSTDICV0.4  | BN037585.D     | 12 Aug 2025 20:42 | RC/JU    | Ok     |
| 11  | PB169094BL  | BN037586.D     | 12 Aug 2025 21:55 | RC/JU    | Ok     |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN081925**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | Rahul                                            | Review On         | 8/21/2025 3:02:23 PM                          |
| Supervise By             | Jagrut                                           | Supervise On      | 8/21/2025 5:56:51 PM                          |
| SubDirectory             | BN081925                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn081225 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6757                                           |                   |                                               |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |                   |                                               |
| CCC                      | SP6846                                           |                   |                                               |
| Internal Standard/PEM    | SP6830,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6854                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status   |
|-----|-------------|----------------|-------------------|----------|----------|
| 1   | DFTPP       | BN037599.D     | 19 Aug 2025 10:00 | RC/JU    | Ok       |
| 2   | SSTDCCC0.4  | BN037600.D     | 19 Aug 2025 10:39 | RC/JU    | Ok       |
| 3   | PB169286BL  | BN037601.D     | 19 Aug 2025 11:16 | RC/JU    | Not Ok   |
| 4   | Q2842-01    | BN037602.D     | 19 Aug 2025 11:52 | RC/JU    | Dilution |
| 5   | Q2842-02    | BN037603.D     | 19 Aug 2025 12:28 | RC/JU    | Dilution |
| 6   | Q2842-03    | BN037604.D     | 19 Aug 2025 13:04 | RC/JU    | Ok       |
| 7   | Q2842-04MS  | BN037605.D     | 19 Aug 2025 13:40 | RC/JU    | Ok,M     |
| 8   | Q2842-05MSD | BN037606.D     | 19 Aug 2025 14:17 | RC/JU    | Ok,M     |
| 9   | Q2842-06    | BN037607.D     | 19 Aug 2025 14:53 | RC/JU    | Ok       |
| 10  | Q2869-01    | BN037608.D     | 19 Aug 2025 15:29 | RC/JU    | Dilution |
| 11  | Q2869-03    | BN037609.D     | 19 Aug 2025 16:05 | RC/JU    | Ok       |
| 12  | Q2869-04    | BN037610.D     | 19 Aug 2025 16:42 | RC/JU    | Ok       |
| 13  | Q2869-05    | BN037611.D     | 19 Aug 2025 17:18 | RC/JU    | Ok       |
| 14  | Q2869-07    | BN037612.D     | 19 Aug 2025 17:54 | RC/JU    | Ok       |
| 15  | Q2869-10    | BN037613.D     | 19 Aug 2025 18:30 | RC/JU    | Ok       |
| 16  | Q2878-01    | BN037614.D     | 19 Aug 2025 19:07 | RC/JU    | Ok       |
| 17  | Q2878-05    | BN037615.D     | 19 Aug 2025 19:43 | RC/JU    | Dilution |
| 18  | SSTDCCC0.4  | BN037616.D     | 19 Aug 2025 20:19 | RC/JU    | Ok       |
| 19  | DFTPP       | BN037617.D     | 20 Aug 2025 03:35 | RC/JU    | Ok       |
| 20  | SSTDCCC0.4  | BN037618.D     | 20 Aug 2025 04:14 | RC/JU    | Ok       |
| 21  | PB169286BL  | BN037619.D     | 20 Aug 2025 04:50 | RC/JU    | Ok       |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN081925**

| Review By                | Rahul                                            | Review On         | 8/21/2025 3:02:23 PM                          |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | Jagrut                                           | Supervise On      | 8/21/2025 5:56:51 PM                          |
| SubDirectory             | BN081925                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn081225 |
| STD. NAME                | STD REF.#                                        |                   |                                               |
| Tune/Reschk              | SP6757                                           |                   |                                               |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |                   |                                               |
| CCC                      | SP6846                                           |                   |                                               |
| Internal Standard/PEM    | SP6830,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6854                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

|    |            |            |                   |       |    |
|----|------------|------------|-------------------|-------|----|
| 22 | Q2842-01DL | BN037620.D | 20 Aug 2025 05:27 | RC/JU | Ok |
| 23 | Q2842-02DL | BN037621.D | 20 Aug 2025 06:03 | RC/JU | Ok |
| 24 | Q2869-01DL | BN037622.D | 20 Aug 2025 06:38 | RC/JU | Ok |
| 25 | Q2881-01   | BN037623.D | 20 Aug 2025 07:13 | RC/JU | Ok |
| 26 | Q2881-02   | BN037624.D | 20 Aug 2025 07:49 | RC/JU | Ok |
| 27 | Q2882-01   | BN037625.D | 20 Aug 2025 08:25 | RC/JU | Ok |
| 28 | Q2882-02   | BN037626.D | 20 Aug 2025 09:00 | RC/JU | Ok |
| 29 | Q2882-03   | BN037627.D | 20 Aug 2025 09:37 | RC/JU | Ok |
| 30 | Q2882-04   | BN037628.D | 20 Aug 2025 10:13 | RC/JU | Ok |
| 31 | Q2878-05DL | BN037629.D | 20 Aug 2025 10:49 | RC/JU | Ok |
| 32 | PB169286BS | BN037630.D | 20 Aug 2025 11:25 | RC/JU | Ok |
| 33 | SSTDCCC0.4 | BN037631.D | 20 Aug 2025 14:56 | RC/JU | Ok |

M : Manual Integration



Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN081225**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Rahul    | Review On         | 8/13/2025 11:25:23 AM                     |
| Supervise By | Jagrut   | Supervise On      | 8/13/2025 11:26:50 AM                     |
| SubDirectory | BN081225 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn081225 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6757                                           |
| Initial Calibration Stds | SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |
| CCC                      | SP6846                                           |
| Internal Standard/PEM    | SP6830,1ul/100ul sample                          |
| ICV/I.BLK                | SP6854                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

| Sr# | SampleID    | ClientID    | Data File Name | Date-Time         | Comment                          | Operator | Status |
|-----|-------------|-------------|----------------|-------------------|----------------------------------|----------|--------|
| 1   | DFTPP       | DFTPP       | BN037576.D     | 12 Aug 2025 15:05 |                                  | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | SSTDCCC0.4  | BN037577.D     | 12 Aug 2025 15:49 | A Fresh Calibration is required  | RC/JU    | Not Ok |
| 3   | SSTDICC0.1  | SSTDICC0.1  | BN037578.D     | 12 Aug 2025 16:26 |                                  | RC/JU    | Ok     |
| 4   | SSTDICC0.2  | SSTDICC0.2  | BN037579.D     | 12 Aug 2025 17:03 |                                  | RC/JU    | Ok     |
| 5   | SSTDICCC0.4 | SSTDICCC0.4 | BN037580.D     | 12 Aug 2025 17:39 | Compound #20 kept on LR          | RC/JU    | Ok     |
| 6   | SSTDICC0.8  | SSTDICC0.8  | BN037581.D     | 12 Aug 2025 18:16 |                                  | RC/JU    | Ok     |
| 7   | SSTDICC1.6  | SSTDICC1.6  | BN037582.D     | 12 Aug 2025 18:52 |                                  | RC/JU    | Ok     |
| 8   | SSTDICC3.2  | SSTDICC3.2  | BN037583.D     | 12 Aug 2025 19:29 |                                  | RC/JU    | Ok     |
| 9   | SSTDICC5.0  | SSTDICC5.0  | BN037584.D     | 12 Aug 2025 20:05 | Comp #20,23,24 removed from 5ppm | RC/JU    | Ok     |
| 10  | SSTDICV0.4  | ICVBN081225 | BN037585.D     | 12 Aug 2025 20:42 |                                  | RC/JU    | Ok     |
| 11  | PB169094BL  | PB169094BL  | BN037586.D     | 12 Aug 2025 21:55 |                                  | RC/JU    | Ok     |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN081925**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | Rahul    | Review On         | 8/21/2025 3:02:23 PM                      |
| Supervise By | Jagrut   | Supervise On      | 8/21/2025 5:56:51 PM                      |
| SubDirectory | BN081925 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn081225 |

| STD. NAME                                                                                          | STD REF.#                                                        |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------------|
| Tune/Reschk<br>Initial Calibration Stds                                                            | SP6757<br>SP6842, SP6843, SP6844, SP6845, SP6846, SP6847, SP6848 |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | SP6846<br>SP6830, 1ul/100ul sample<br>SP6854                     |

| Sr# | SampleID    | ClientID            | Data File Name | Date-Time         | Comment                                | Operator | Status   |
|-----|-------------|---------------------|----------------|-------------------|----------------------------------------|----------|----------|
| 1   | DFTPP       | DFTPP               | BN037599.D     | 19 Aug 2025 10:00 |                                        | RC/JU    | Ok       |
| 2   | SSTDCCC0.4  | SSTDCCC0.4          | BN037600.D     | 19 Aug 2025 10:39 |                                        | RC/JU    | Ok       |
| 3   | PB169286BL  | PB169286BL          | BN037601.D     | 19 Aug 2025 11:16 | Not Used                               | RC/JU    | Not Ok   |
| 4   | Q2842-01    | RMW-03B-90.4-081225 | BN037602.D     | 19 Aug 2025 11:52 | Need 2X.                               | RC/JU    | Dilution |
| 5   | Q2842-02    | RMW-02B-66.3-081225 | BN037603.D     | 19 Aug 2025 12:28 | Need 10X.                              | RC/JU    | Dilution |
| 6   | Q2842-03    | MW-17B-55.5-081225  | BN037604.D     | 19 Aug 2025 13:04 |                                        | RC/JU    | Ok       |
| 7   | Q2842-04MS  | MW-17B-55.5-081225  | BN037605.D     | 19 Aug 2025 13:40 | Recovery fail very high , need noncon. | RC/JU    | Ok,M     |
| 8   | Q2842-05MSD | MW-17B-55.5-081225  | BN037606.D     | 19 Aug 2025 14:17 | Recovery fail very high , need noncon. | RC/JU    | Ok,M     |
| 9   | Q2842-06    | MW-06-6.5-081225    | BN037607.D     | 19 Aug 2025 14:53 |                                        | RC/JU    | Ok       |
| 10  | Q2869-01    | MW-19B-71.5-081325  | BN037608.D     | 19 Aug 2025 15:29 | Need 2X.                               | RC/JU    | Dilution |
| 11  | Q2869-03    | MW-01-6.5-081325    | BN037609.D     | 19 Aug 2025 16:05 |                                        | RC/JU    | Ok       |
| 12  | Q2869-04    | MW-11A-13.5-081325  | BN037610.D     | 19 Aug 2025 16:42 |                                        | RC/JU    | Ok       |
| 13  | Q2869-05    | MW-19B-71.5-081325  | BN037611.D     | 19 Aug 2025 17:18 |                                        | RC/JU    | Ok       |
| 14  | Q2869-07    | EB01-081325         | BN037612.D     | 19 Aug 2025 17:54 |                                        | RC/JU    | Ok       |
| 15  | Q2869-10    | EB02-081325         | BN037613.D     | 19 Aug 2025 18:30 |                                        | RC/JU    | Ok       |
| 16  | Q2878-01    | MW-18B-57.5-081325  | BN037614.D     | 19 Aug 2025 19:07 |                                        | RC/JU    | Ok       |
| 17  | Q2878-05    | MW-11A-37.5-081425  | BN037615.D     | 19 Aug 2025 19:43 | Need 20X.                              | RC/JU    | Dilution |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN081925**

|                                                                                                    |                                                            |                   |                                           |
|----------------------------------------------------------------------------------------------------|------------------------------------------------------------|-------------------|-------------------------------------------|
| Review By                                                                                          | Rahul                                                      | Review On         | 8/21/2025 3:02:23 PM                      |
| Supervise By                                                                                       | Jagrut                                                     | Supervise On      | 8/21/2025 5:56:51 PM                      |
| SubDirectory                                                                                       | BN081925                                                   | HP Acquire Method | BNA_N, 8270_HP Processing Method bn081225 |
| <b>STD. NAME</b>                                                                                   | <b>STD REF.#</b>                                           |                   |                                           |
| Tune/Reschk<br>Initial Calibration Stds                                                            | SP6757<br>SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848 |                   |                                           |
| CCC<br>Internal Standard/PEM<br>ICV/I.BLK<br>Surrogate Standard<br>MS/MSD Standard<br>LCS Standard | SP6846<br>SP6830,1ul/100ul sample<br>SP6854                |                   |                                           |

|    |            |                     |            |                   |  |       |    |
|----|------------|---------------------|------------|-------------------|--|-------|----|
| 18 | SSTDCCC0.4 | SSTDCCC0.4EC        | BN037616.D | 19 Aug 2025 20:19 |  | RC/JU | Ok |
| 19 | DFTPP      | DFTPP               | BN037617.D | 20 Aug 2025 03:35 |  | RC/JU | Ok |
| 20 | SSTDCCC0.4 | SSTDCCC0.4          | BN037618.D | 20 Aug 2025 04:14 |  | RC/JU | Ok |
| 21 | PB169286BL | PB169286BL          | BN037619.D | 20 Aug 2025 04:50 |  | RC/JU | Ok |
| 22 | Q2842-01DL | RMW-03B-90.4-081225 | BN037620.D | 20 Aug 2025 05:27 |  | RC/JU | Ok |
| 23 | Q2842-02DL | RMW-02B-66.3-081225 | BN037621.D | 20 Aug 2025 06:03 |  | RC/JU | Ok |
| 24 | Q2869-01DL | MW-19B-71.5-081325D | BN037622.D | 20 Aug 2025 06:38 |  | RC/JU | Ok |
| 25 | Q2881-01   | RW8-SP100-20250814  | BN037623.D | 20 Aug 2025 07:13 |  | RC/JU | Ok |
| 26 | Q2881-02   | RW8-SP303-20250814  | BN037624.D | 20 Aug 2025 07:49 |  | RC/JU | Ok |
| 27 | Q2882-01   | RW7-SP100-20250814  | BN037625.D | 20 Aug 2025 08:25 |  | RC/JU | Ok |
| 28 | Q2882-02   | RW7-SP201-20250814  | BN037626.D | 20 Aug 2025 09:00 |  | RC/JU | Ok |
| 29 | Q2882-03   | RW7-SP302-20250814  | BN037627.D | 20 Aug 2025 09:37 |  | RC/JU | Ok |
| 30 | Q2882-04   | RW7-SP303-20250814  | BN037628.D | 20 Aug 2025 10:13 |  | RC/JU | Ok |
| 31 | Q2878-05DL | MW-11A-37.5-081425D | BN037629.D | 20 Aug 2025 10:49 |  | RC/JU | Ok |
| 32 | PB169286BS | PB169286BS          | BN037630.D | 20 Aug 2025 11:25 |  | RC/JU | Ok |
| 33 | SSTDCCC0.4 | SSTDCCC0.4EC        | BN037631.D | 20 Aug 2025 14:56 |  | RC/JU | Ok |

M : Manual Integration

|                           |                                                                                                                                                                                                                      |                                |            |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|------------|
| <b>SOP ID:</b>            | M3510C,3580A-Extraction SVOC-21                                                                                                                                                                                      |                                |            |
| <b>Clean Up SOP #:</b>    | N/A                                                                                                                                                                                                                  | <b>Extraction Start Date :</b> | 08/18/2025 |
| <b>Matrix :</b>           | Water                                                                                                                                                                                                                | <b>Extraction Start Time :</b> | 08:41      |
| <b>Weigh By:</b>          | N/A                                                                                                                                                                                                                  | <b>Extraction By:</b>          | RS         |
| <b>Balance check:</b>     | N/A                                                                                                                                                                                                                  | <b>Extraction End Date :</b>   | 08/18/2025 |
| <b>Balance ID:</b>        | N/A                                                                                                                                                                                                                  | <b>Filter By:</b>              | RJ         |
| <b>pH Strip Lot#:</b>     | E3953                                                                                                                                                                                                                | <b>Extraction End Time :</b>   | 13:45      |
|                           |                                                                                                                                                                                                                      | <b>Concentration By:</b>       | EH         |
|                           |                                                                                                                                                                                                                      | <b>Supervisor By :</b>         | RUPESH     |
| <b>Extraction Method:</b> | <input checked="" type="checkbox"/> Separatory Funnel <input type="checkbox"/> Continuous Liquid/Liquid <input type="checkbox"/> Sonication <input type="checkbox"/> Waste Dilution <input type="checkbox"/> Soxhlet |                                |            |

| Standard Name | MLS USED | Concentration ug/mL | STD REF. # FROM LOG |
|---------------|----------|---------------------|---------------------|
| Spike Sol 1   | 1.0ML    | 0.4 PPM             | SP6855              |
| Surrogate     | 1.0ML    | 0.4 PPM             | SP6831              |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |
| N/A           | N/A      | N/A                 | N/A                 |

| Chemical Used      | ML/SAMPLE USED | Lot Number |
|--------------------|----------------|------------|
| Methylene Chloride | N/A            | E3964      |
| Baked Na2SO4       | N/A            | EP2632     |
| 10N NaOH           | N/A            | EP2609     |
| H2SO4 1:1          | N/A            | EP2610     |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |

**Extraction Conformance/Non-Conformance Comments:**

1.5 ML Vial lot# 2210443. pH Adjusted<2 with 1:1 H2SO4 &>11 with 10 N NaOH.

|                             |                |                           |          |
|-----------------------------|----------------|---------------------------|----------|
| <b>KD Bath ID:</b>          | WATER BATH-1,2 | <b>Envap ID:</b>          | NEVAP-02 |
| <b>KD Bath Temperature:</b> | 60 °C          | <b>Envap Temperature:</b> | 40 °C    |

| Date / Time | Prepped Sample Relinquished By/Location | Received By/Location |
|-------------|-----------------------------------------|----------------------|
| 8/18/25     | RS (Ext Lab)                            | RC/svoc              |
| 13:50       | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 08/18/2025

| Sample ID  | Client Sample ID      | Test               | g / <sup>1</sup> mL | PH | Surr/Spike By: |            | Final Vol. (mL) | JarID | Comments | Prep Pos |
|------------|-----------------------|--------------------|---------------------|----|----------------|------------|-----------------|-------|----------|----------|
|            |                       |                    |                     |    | AddedBy        | VerifiedBy |                 |       |          |          |
| PB169286BL | SBLK286               | SVOC-SIMGrou<br>p1 | 1000                | 6  | RUPEsh         | ritesh     | 1               |       |          | SEP-1    |
| PB169286BS | SLCS286               | SVOC-SIMGrou<br>p1 | 1000                | 6  | RUPEsh         | ritesh     | 1               |       |          | 2        |
| Q2842-01   | RMW-03B-90.4-08122025 | SVOC-SIMGrou<br>p1 | 910                 | 6  | RUPEsh         | ritesh     | 1               | E     |          | 3        |
| Q2842-02   | RMW-02B-66.3-08122025 | SVOC-SIMGrou<br>p1 | 970                 | 6  | RUPEsh         | ritesh     | 1               | E     |          | 4        |
| Q2842-03   | MW-17B-55.5-08122025  | SVOC-SIMGrou<br>p1 | 980                 | 6  | RUPEsh         | ritesh     | 1               | H     |          | 5        |
| Q2842-04   | Q2842-03MS            | SVOC-SIMGrou<br>p1 | 940                 | 6  | RUPEsh         | ritesh     | 1               | H     |          | 6        |
| Q2842-05   | Q2842-03MSD           | SVOC-SIMGrou<br>p1 | 960                 | 6  | RUPEsh         | ritesh     | 1               | H     |          | 7        |
| Q2842-06   | MW-06-6.5-08122025    | SVOC-SIMGrou<br>p1 | 970                 | 6  | RUPEsh         | ritesh     | 1               | B     |          | 8        |
| Q2869-01   | MW-19B-71.5-081325    | SVOC-SIMGrou<br>p1 | 930                 | 6  | RUPEsh         | ritesh     | 1               | G     |          | 9        |
| Q2869-03   | MW-01-6.5-081325      | SVOC-SIMGrou<br>p1 | 900                 | 6  | RUPEsh         | ritesh     | 1               | C     |          | 10       |
| Q2869-04   | MW-11A-13.5-081325    | SVOC-SIMGrou<br>p1 | 960                 | 6  | RUPEsh         | ritesh     | 1               | C     |          | 11       |
| Q2869-05   | MW-19B-71.5-081325-FD | SVOC-SIMGrou<br>p1 | 960                 | 6  | RUPEsh         | ritesh     | 1               | G     |          | 12       |
| Q2869-07   | EB01-081325           | SVOC-SIMGrou<br>p1 | 940                 | 6  | RUPEsh         | ritesh     | 1               | G     |          | 13       |
| Q2869-10   | EB02-081325           | SVOC-SIMGrou<br>p1 | 1000                | 6  | RUPEsh         | ritesh     | 1               | C     |          | 14       |
| Q2878-01   | MW-18B-57.5-081325    | SVOC-SIMGrou<br>p1 | 900                 | 6  | RUPEsh         | ritesh     | 1               | C     |          | 15       |
| Q2878-05   | MW-11A-37.5-081425    | SVOC-SIMGrou<br>p1 | 950                 | 6  | RUPEsh         | ritesh     | 1               | C     |          | 16       |
| Q2881-01   | RW8-SP100-2025814     | SVOC-SIMGrou<br>p1 | 1000                | 6  | RUPEsh         | ritesh     | 1               | D     |          | SEP-1    |
| Q2881-02   | RW8-SP303-20250814    | SVOC-SIMGrou<br>p1 | 1000                | 6  | RUPEsh         | ritesh     | 1               | D     |          | 2        |
| Q2882-01   | RW7-SP100-20250814    | SVOC-SIMGrou<br>p1 | 1000                | 6  | RUPEsh         | ritesh     | 1               |       |          | 3        |
| Q2882-02   | RW7-SP201-20250814    | SVOC-SIMGrou<br>p1 | 1000                | 6  | RUPEsh         | ritesh     | 1               |       |          | 4        |
| Q2882-03   | RW7-SP302-20250814    | SVOC-SIMGrou<br>p1 | 910                 | 6  | RUPEsh         | ritesh     | 1               |       |          | 5        |
| Q2882-04   | RW7-SP303-20250814    | SVOC-SIMGrou<br>p1 | 940                 | 6  | RUPEsh         | ritesh     | 1               |       |          | 6        |

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2842      WorkList ID : 191325      Department : Extraction      Date : 08-18-2025 08:35:56

| Sample   | Customer Sample       | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method        |
|----------|-----------------------|--------|----------------|--------------|----------|-----------------------------|--------------|---------------|
| Q2842-01 | RMW-03B-90.4-081225   | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J32                         | 08/12/2025   | 8270-Modified |
| Q2842-02 | RMW-02B-66.3-081225   | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J32                         | 08/12/2025   | 8270-Modified |
| Q2842-03 | MW-17B-55.5-081225    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J32                         | 08/12/2025   | 8270-Modified |
| Q2842-04 | Q2842-03MS            | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J32                         | 08/12/2025   | 8270-Modified |
| Q2842-05 | Q2842-03MSD           | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J32                         | 08/12/2025   | 8270-Modified |
| Q2842-06 | MW-06-6.5-081225      | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J32                         | 08/12/2025   | 8270-Modified |
| Q2869-01 | MW-19B-71.5-081325    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J31                         | 08/13/2025   | 8270-Modified |
| Q2869-03 | MW-01-6.5-081325      | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J31                         | 08/13/2025   | 8270-Modified |
| Q2869-04 | MW-11A-13.5-081325    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J31                         | 08/13/2025   | 8270-Modified |
| Q2869-05 | MW-19B-71.5-081325-FD | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J31                         | 08/13/2025   | 8270-Modified |
| Q2869-07 | EB01-081325           | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J31                         | 08/13/2025   | 8270-Modified |
| Q2869-10 | EB02-081325           | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J31                         | 08/13/2025   | 8270-Modified |
| Q2878-01 | MW-18B-57.5-081325    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | J31                         | 08/13/2025   | 8270-Modified |
| Q2878-05 | MW-11A-37.5-081425    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | JACO05   | D31                         | 08/14/2025   | 8270-Modified |
| Q2881-01 | RW8-SP100-2025814     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | J32                         | 08/14/2025   | 8270-Modified |
| Q2881-02 | RW8-SP303-20250814    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | J32                         | 08/14/2025   | 8270-Modified |
| Q2882-01 | RW7-SP100-20250814    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | J31                         | 08/14/2025   | 8270-Modified |
| Q2882-02 | RW7-SP201-20250814    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | J31                         | 08/14/2025   | 8270-Modified |
| Q2882-03 | RW7-SP302-20250814    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | J31                         | 08/14/2025   | 8270-Modified |
| Q2882-04 | RW7-SP303-20250814    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | J31                         | 08/14/2025   | 8270-Modified |

Date/Time 8/18/25 8:36  
 Raw Sample Received by: RS (Ex- Lab)  
 Raw Sample Relinquished by: RS (Ex- Lab)

## Prep Standard - Chemical Standard Summary

**Order ID :** Q2842

**Test :** SVOC-SIMGroup1

**Prepbatch ID :** PB169286,

**Sequence ID/Qc Batch ID:** bn081925,

**Standard ID :**

EP2609,EP2610,EP2632,SP6757,SP6830,SP6831,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,

**Chemical ID :**

1ul/100ul

sample,E3657,E3875,E3904,E3932,E3940,E3942,E3943,E3964,M6157,S10105,S11073,S11496,S11652,S11807,S11828,S12115,S12195,S12197,S12216,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,W3112,



| <u>Recipe ID</u> | <u>NAME</u>                                                                  | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>                |
|------------------|------------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|-------------------------------------|
| 1874             | 10 N SODIUM HYDROXIDE SOLN                                                   | <a href="#">EP2609</a> | 05/07/2025       | 11/07/2025             | RUPESHKUMAR SHAH   | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br><br>05/07/2025 |
| <u>FROM</u>      | 1000.00000ml of W3112 + 400.00000gram of E3657 = Final Quantity: 1000.000 ml |                        |                  |                        |                    |                                     |                  |                                     |

| <u>Recipe ID</u> | <u>NAME</u>                                                                 | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                  | <u>PipetteID</u> | <u>Supervised By</u>                |
|------------------|-----------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|---------------------------------|------------------|-------------------------------------|
| 314              | 1.1 H2SO4 SOLN                                                              | <a href="#">EP2610</a> | 05/07/2025       | 11/07/2025             | RUPESHKUMAR SHAH   | Extraction_SCALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br><br>05/07/2025 |
| <u>FROM</u>      | 1000.00000ml of M6157 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml |                        |                  |                        |                    |                                 |                  |                                     |



## Extractions STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u>                      | <u>PipetteID</u> | <u>Supervised By</u>                |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|-------------------------------------|------------------|-------------------------------------|
| 3923             | Baked Sodium Sulfate | <a href="#">EP2632</a> | 08/11/2025       | 01/28/2026             | RUPESHKUMAR SHAH   | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br><br>08/11/2025 |

**FROM** 4000.00000gram of E3875 = Final Quantity: 4000.000 gram

| <u>Recipe ID</u> | <u>NAME</u>          | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>              |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|-----------------------------------|
| 3895             | 50 ug/ml DFTTP 8270E | <a href="#">SP6757</a> | 03/31/2025       | 09/30/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay<br><br>04/01/2025 |

**FROM** 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>               | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3493             | Internal Standard 0.4 PPM | <a href="#">SP6830</a> | 06/17/2025       | 12/13/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                           |                        |                  |                        |                    |                |                  | 06/19/2025           |

**FROM** 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3491             | 8270-SIM-Surrogate 0.4 PPM | <a href="#">SP6831</a> | 06/18/2025       | 09/18/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay      |
|                  |                            |                        |                  |                        |                    |                |                  | 06/18/2025           |

**FROM** 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11828 + 199.93600ml of E3940 = Final Quantity: 200.000 ml



| <u>Recipe ID</u> | <u>NAME</u>                                                                                                                                                                         | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>       |
|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------------|
| 3339             | 8270 sim calibration stock 10ppm (CPI)                                                                                                                                              | <a href="#">SP6841</a> | 06/25/2025       | 10/28/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli<br>06/25/2025 |
| <u>FROM</u>      | 0.03350ml of S10105 + 0.05000ml of S11496 + 0.12500ml of S11828 + 0.12500ml of S12115 + 0.25000ml of S12273 + 0.25000ml of S13058 + 24.16650ml of E3943 = Final Quantity: 25.000 ml |                        |                  |                        |                    |                |                  |                            |

| <u>Recipe ID</u>                                                                                             | <u>NAME</u>                               | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>           |
|--------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|--------------------------------|
| 3361                                                                                                         | 8270-SIM MDL-5PPM<br>CALIBRATION SOLUTION | <a href="#">SP6842</a> | 06/25/2025       | 10/28/2025             | Jagrut<br>Upadhyay | None           | None             | Rahul Chavli<br><br>06/25/2025 |
| <b><u>FROM</u></b> 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6841 = Final Quantity: 1.010 ml |                                           |                        |                  |                        |                    |                |                  |                                |

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3341             | 8270-SIM MDL-3.2PPM CALIBRATION SOLUTION | <a href="#">SP6843</a> | 06/25/2025       | 10/28/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 06/25/2025           |

**FROM** 0.68000ml of E3943 + 0.01000ml of SP6830 + 0.32000ml of SP6841 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3344             | 8270-SIM MDL-1.6PPM CALIBRATION SOLUTION | <a href="#">SP6844</a> | 06/25/2025       | 10/28/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 06/25/2025           |

**FROM** 0.84000ml of E3943 + 0.01000ml of SP6830 + 0.16000ml of SP6841 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3342             | 8270-SIM MDL-0.8PPM CALIBRATION SOLUTION | <a href="#">SP6845</a> | 06/25/2025       | 10/28/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 06/25/2025           |

**FROM** 0.92000ml of E3943 + 0.01000ml of SP6830 + 0.08000ml of SP6841 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3343             | 8270-SIM MDL-0.4PPM CALIBRATION SOLUTION | <a href="#">SP6846</a> | 06/25/2025       | 10/28/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 06/25/2025           |

**FROM** 0.96000ml of E3943 + 0.01000ml of SP6830 + 0.04000ml of SP6841 = Final Quantity: 1.010 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3345             | 8270-SIM MDL-0.2PPM CALIBRATION SOLUTION | <a href="#">SP6847</a> | 06/25/2025       | 10/28/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 06/25/2025           |

**FROM** 0.50000ml of E3943 + 0.01000ml of SP6830 + 0.50000ml of SP6846 = Final Quantity: 1.010 ml

| <u>Recipe ID</u> | <u>NAME</u>                              | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3346             | 8270-SIM MDL-0.1PPM CALIBRATION SOLUTION | <a href="#">SP6848</a> | 06/25/2025       | 10/28/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 06/25/2025           |

**FROM** 0.75000ml of E3943 + 0.01000ml of SP6830 + 0.25000ml of SP6846 = Final Quantity: 1.010 ml



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922



| <u>Recipe ID</u> | <u>NAME</u>                                                                                                                                                   | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u>          |
|------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|-------------------------------|
| 3492             | 8270-SIM-Spike 0.4 PPM                                                                                                                                        | <a href="#">SP6855</a> | 07/30/2025       | 09/30/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay<br>08/05/2025 |
| <u>FROM</u>      | 0.00080ml of S11652 + 0.01000ml of S11807 + 0.02000ml of S12498 + 0.02000ml of S12552 + 0.02000ml of S12986 + 49.92920ml of E3932 = Final Quantity: 50.000 ml |                        |                  |                        |                    |                |                  |                               |



## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                                  | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4 | 23B1556310 | 12/31/2025      | 12/04/2023 / Rajesh     | 12/01/2023 / Rajesh         | E3657          |

| Supplier                    | ItemCode / ItemName                                    | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 417203 | 01/28/2026      | 07/28/2025 / RUPESH     | 01/29/2025 / Rajesh         | E3875          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24K1762005 | 01/07/2026      | 03/13/2025 / RUPESH     | 12/27/2024 / RUPESH         | E3904          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 11/05/2025      | 05/05/2025 / RUPESH     | 04/23/2025 / RUPESH         | E3932          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 12/11/2025      | 06/11/2025 / Rajesh     | 06/04/2025 / Rajesh         | E3940          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25A2862010 | 12/13/2025      | 06/13/2025 / Rajesh     | 02/28/2025 / Rajesh         | E3942          |

## CHEMICAL RECEIPT LOG BOOK

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25A2862010 | 12/13/2025      | 06/13/2025 / Rajesh     | 02/28/2025 / Rajesh         | E3943          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25C1262005 | 04/16/2026      | 08/14/2025 / RUPESH     | 03/06/2025 / RUPESH         | E3964          |

| Supplier         | ItemCode / ItemName                                     | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L) | 24i1262013 | 11/07/2025      | 05/07/2025 / RUPESH     | 02/18/2025 / Mohan          | M6157          |

| Supplier          | ItemCode / ItemName                                       | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|-----------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-112090-04 / CLP Acid Surrogate Solution, 7500 mg/L, 1ml | 440246 | 12/19/2025      | 06/19/2025 / Jagrut     | 12/09/2021 / Christian      | S10105         |

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0187043 | 11/16/2025      | 05/16/2025 / Jagrut     | 02/06/2023 / Christian      | S11073         |

| Supplier          | ItemCode / ItemName                                               | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|-------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110094-02 / CLP Base/Neutral Surrogate Solution, 5000 mg/L, 1ml | 506889 | 10/28/2025      | 04/28/2025 / Jagrut     | 08/11/2023 / Yogesh         | S11496         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                         | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555872 / Custom Standard, pentachlorophenol Std [CS 5328-5] | A0201728 | 01/30/2026      | 07/30/2025 / Rahul      | 11/09/2023 / Yogesh         | S11652         |

| Supplier | ItemCode / ItemName                                           | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31853 / 1,4-Dioxane, 2000 ug/ml , Solvent: Methylene Chloride | A0200655 | 01/01/2026      | 07/01/2025 / Rahul      | 11/21/2023 / rahul          | S11807         |

| Supplier | ItemCode / ItemName                                         | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 33913 / SOM01.0 SIM Analysis Standard (Surrogate), 2000 PPM | A0201976 | 12/09/2025      | 06/09/2025 / Jagrut     | 11/21/2023 / rahul          | S11828         |

| Supplier          | ItemCode / ItemName                                | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml | 454157 | 10/28/2025      | 04/28/2025 / Jagrut     | 03/08/2024 / Rahul          | S12115         |

| Supplier | ItemCode / ItemName                                      | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul | A0206206 | 09/18/2025      | 03/18/2025 / anahy      | 03/15/2024 / Rahul          | S12195         |

| Supplier | ItemCode / ItemName                                      | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul | A0206206 | 01/02/2026      | 07/02/2025 / Jagrut     | 03/15/2024 / Rahul          | S12197         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate<br>5000ug/ml,CH <sub>2</sub> Cl <sub>2</sub> ,5ml | A0206381 | 09/18/2025      | 03/18/2025 / anahy      | 03/15/2024 / Rahul          | S12216         |

| Supplier | ItemCode / ItemName                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate<br>5000ug/ml,CH <sub>2</sub> Cl <sub>2</sub> ,5ml | A0206381 | 01/02/2026      | 07/02/2025 / Jagrut     | 03/15/2024 / Rahul          | S12220         |

| Supplier          | ItemCode / ItemName                                                  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml | 520963 | 12/25/2025      | 06/25/2025 / Jagrut     | 05/24/2024 / Rahul          | S12273         |

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 12/04/2025      | 06/04/2025 / Jagrut     | 07/23/2024 / RAHUL          | S12498         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 01/01/2026      | 07/01/2025 / Rahul      | 07/23/2024 / RAHUL          | S12499         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                  | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request] | A0214017 | 01/01/2026      | 07/01/2025 / Rahul      | 07/23/2024 / RAHUL          | S12552         |

[CS 4978-2]

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31615 / SV Mixture, GC/MS Tuning Mixture, CH <sub>2</sub> Cl <sub>2</sub> , 1mL, | A0212955 | 06/30/2027      | 03/31/2025 / Rahul      | 08/01/2024 / Rahul          | S12577         |

| Supplier | ItemCode / ItemName                                                                        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0212266 | 12/16/2025      | 06/16/2025 / anahy      | 09/20/2024 / anahy          | S12670         |

| Supplier | ItemCode / ItemName                                                                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/30/2025      | 06/04/2025 / Jagrut     | 12/11/2024 / anahy          | S12986         |

| Supplier          | ItemCode / ItemName                                                                  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|--------------------------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | Z-110816-01 / Custom 8270 Mix, 4-79, 1000 mg/L, 1 mL, (Maximum Expiration: 180 Days) | 531243 | 12/25/2025      | 06/25/2025 / Jagrut     | 01/16/2025 / anahy          | S13058         |

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|---------------------|---------------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | DIW / DI Water      | Daily Lab-Certified | 07/03/2029      | 07/03/2024 / Iwona      | 07/03/2024 / Iwona          | W3112          |



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

**Catalog No.:** Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**  
Z-112090 440246  $\leq -10^{\circ}\text{C}$  Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL  
-04

| Compound                      | CAS No.    | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-------------------------------|------------|------------|------------------|---------------------|
| 2-chlorophenol-d <sub>4</sub> | 93951-73-6 | 99.3       | 248.12.7P        | 7487 $\pm$ 17.2     |
| 2-fluorophenol                | 367-12-4   | 99.8       | 10.7.3.3P        | 7513 $\pm$ 17.26    |
| phenol-d <sub>6</sub>         | 13127-88-3 | 99.9       | 949.120.8P       | 7481 $\pm$ 17.19    |
| 2,4,6-tribromophenol          | 118-79-6   | 99.8       | 12.1.6P          | 7469 $\pm$ 17.17    |

Received on

02/25/21

by  
CG

S9236  
to

S9240

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: \_\_\_\_\_

Erica Castiglione  
Chemist



# CERTIFIED REFERENCE MATERIAL

110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

## Certificate of Analysis



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

Received on  
02/08/23

b1

CG

S 11071

to

S 11075

Catalog No. : 31853

Lot No.: A0187043

Description : 1,4-dioxane

1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul

Container Size : 2 mL

Pkg Amt: > 1 mL

Expiration Date : July 31, 2027

Storage: 0°C or colder

Ship: Ambient

### CERTIFIED VALUES

| Elution Order | Compound                                                      | Grav. Conc. (weight/volume) | Expanded Uncertainty (95% C.L.; K=2)                                                        |
|---------------|---------------------------------------------------------------|-----------------------------|---------------------------------------------------------------------------------------------|
| 1             | 1,4-Dioxane<br>CAS # 123-91-1<br>Purity 99%<br>(Lot SHBN5929) | 2,019.0 µg/mL               | +/- 11.8486 µg/mL Gravimetric<br>+/- 43.2570 µg/mL Unstressed<br>+/- 44.5129 µg/mL Stressed |

Solvent: Methylene chloride

CAS # 75-09-2

Purity 99%

**Column:**

105m x 0.53mm x 3.0µm  
Rtx-502.2 (cat.#10910)

**Carrier Gas:**

hydrogen-constant pressure 11.0 psi.

**Temp. Program:**

40°C (hold 2 min.) to 240°C  
@ 8°C/min. (hold 5 min.)

**Inj. Temp:**

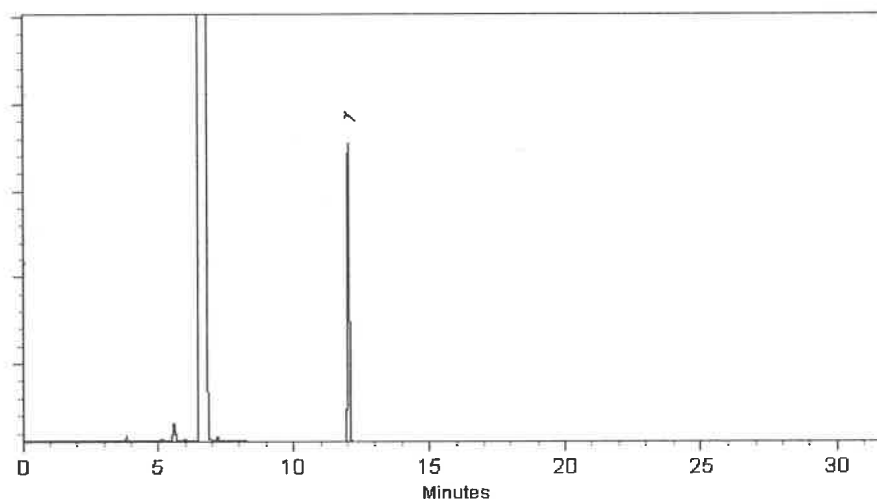
200°C

**Det. Temp:**

250°C

**Det. Type:**

FID



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Brittany Federinko - Operations Tech I

Date Mixed: 07-Jul-2022

Balance: 1128360905

Marlina Cowan - Operations Tech II ARM QC

Date Passed: 12-Jul-2022

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397





# Certificate of Analysis

## Sodium Hydroxide (Pellets)

**Material:** 0583  
**Grade:** ACS GRADE  
**Batch Number:** 23B1556310

Chemical Formula: NaOH  
Molecular Weight: 40  
CAS #: 1310-73-2  
Appearance:

Manufacture Date: 12/14/2022  
Expiration Date: 12/31/2025

Storage: Room Temperature

Pellets

| TEST               | SPECIFICATION          | ANALYSIS            | DISPOSITION |
|--------------------|------------------------|---------------------|-------------|
| Calcium            | $\leq 0.005 \%$        | $< 0.005 \%$        | PASS        |
| Chloride           | $\leq 0.005 \%$        | 0.002 %             | PASS        |
| Heavy Metals       | $\leq 0.002 \%$        | $< 0.002 \%$        | PASS        |
| Iron               | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Magnesium          | $\leq 0.002 \%$        | $< 0.002 \%$        | PASS        |
| Mercury            | $\leq 0.1 \text{ ppm}$ | $< 0.1 \text{ ppm}$ | PASS        |
| Nickel             | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Nitrogen Compounds | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Phosphate          | $\leq 0.001 \%$        | $< 0.001 \%$        | PASS        |
| Potassium          | $\leq 0.02 \%$         | $< 0.02 \%$         | PASS        |
| Purity             | $\geq 97.0 \%$         | 99.2 %              | PASS        |
| Sodium Carbonate   | $\leq 1.0 \%$          | 0.5 %               | PASS        |
| Sulfate            | $\leq 0.003 \%$        | $< 0.003 \%$        | PASS        |

Internal ID #: 710

### Signature

We certify that this batch conforms to the specifications listed.

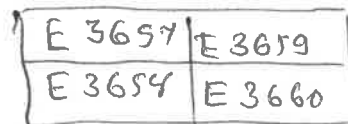
This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon  
VWR Chemicals, LLC.  
28600 Fountain Parkway, Solon OH 44139 USA

### Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.





**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
MONTERREY, N.L. MÉXICO  
CP 64070  
TEL +52 81 13 52 67 67  
www.pqm.com.mx

# CERTIFICATE OF ANALYSIS

|                       |                                   |               |                                 |
|-----------------------|-----------------------------------|---------------|---------------------------------|
| PRODUCT :             | SODIUM SULFATE CRYSTALS ANHYDROUS |               |                                 |
| QUALITY :             | ACS (CODE RMB3375)                | FORMULA :     | Na <sub>2</sub> SO <sub>4</sub> |
| SPECIFICATION NUMBER: | 6399                              | RELEASE DATE: | MAY/23/2024                     |
| LOT NUMBER :          | 417203                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | Min. 99.0%     | 99.8 %      |
| pH of a 5% solution at 25°C              | 5.2 - 9.2      | 6.2         |
| Insoluble matter                         | Max. 0.01%     | 0.001 %     |
| Loss on ignition                         | Max. 0.5%      | 0.1 %       |
| Chloride (Cl)                            | Max. 0.001%    | <0.001 %    |
| Nitrogen compounds (as N)                | Max. 5 ppm     | <5 ppm      |
| Phosphate (PO <sub>4</sub> )             | Max. 0.001%    | <0.001 %    |
| Heavy metals (as Pb)                     | Max. 5 ppm     | <5 ppm      |
| Iron (Fe)                                | Max. 0.001%    | <0.001 %    |
| Calcium (Ca)                             | Max. 0.01%     | 0.001 %     |
| Magnesium (Mg)                           | Max. 0.005%    | 0.001 %     |
| Potassium (K)                            | Max. 0.008%    | 0.001 %     |
| Extraction-concentration suitability     | Passes test    | Passes test |
| Appearance                               | Passes test    | Passes test |
| Identification                           | Passes test    | Passes test |
| Solubility and foreign matter            | Passes test    | Passes test |
| Retained on US Standard No. 10 sieve     | Max. 1%        | 0.2 %       |
| Retained on US Standard No. 60 sieve     | Min. 94%       | 96.2 %      |
| Through US Standard No. 60 sieve         | Max. 5%        | 3.5 %       |
| Through US Standard No. 100 sieve        | Max. 10%       | 0.1 %       |

## COMMENTS

QC: PhC Irma Belmares

If you need further details, please call our factory or contact our local distributor.

RE-02-01, Ed. 3

E 3875

Acetone  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

## Certificate of Analysis

| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | >= 99.4 %     | 99.8 %      |
| Color (APHA)                                                            | <= 10         | 5           |
| Residue after Evaporation                                               | <= 1.0 ppm    | 0.2 ppm     |
| Substances Reducing Permanganate                                        | Passes Test   | Passes Test |
| Titration Acid (μeq/g)                                                  | <= 0.3        | 0.2         |
| Titration Base (μeq/g)                                                  | <= 0.6        | <0.1        |
| Water (H <sub>2</sub> O)                                                | <= 0.5 %      | 0.2 %       |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)    | <= 5          | <1          |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)    | <= 10         | 1           |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

RS

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E 3932

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

avantor™



Material No.: 9254-03

Batch No.: 24H1462005

Manufactured Date: 2024-05-24

Expiration Date: 2027-05-24

Revision No.: 0

## Certificate of Analysis

| Test                                                                    | Specification | Result      |
|-------------------------------------------------------------------------|---------------|-------------|
| Assay ((CH <sub>3</sub> ) <sub>2</sub> CO) (by GC, corrected for water) | >= 99.4 %     | 99.8 %      |
| Color (APHA)                                                            | <= 10         | 5           |
| Residue after Evaporation                                               | <= 1.0 ppm    | 0.2 ppm     |
| Substances Reducing Permanganate                                        | Passes Test   | Passes Test |
| Titration Acid (µeq/g)                                                  | <= 0.3        | 0.2         |
| Titration Base (µeq/g)                                                  | <= 0.6        | <0.1        |
| Water (H <sub>2</sub> O)                                                | <= 0.5 %      | 0.2 %       |
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)    | <= 5          | <1          |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)    | <= 10         | 1           |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

Rec'd by RP on 6/11/25

E3940

Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 25A2862010  
Manufactured Date: 2024-12-18  
Expiration Date: 2026-03-19  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                             | Specification  | Result  |
|--------------------------------------------------------------------------------------------------|----------------|---------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                             | $\leq 5$       | <1      |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                              | $\leq 10$      | 2       |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$ | 99.9 %  |
| Color (APHA)                                                                                     | $\leq 10$      | 5       |
| Residue after Evaporation                                                                        | $\leq 1.0$ ppm | 0.3 ppm |
| Titration Acid ( $\mu$ eq/g)                                                                     | $\leq 0.3$     | <0.1    |
| Chloride (Cl)                                                                                    | $\leq 10$ ppm  | <5 ppm  |
| Water (by KF, coulometric)                                                                       | $\leq 0.02 \%$ | <0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)

avantor™



Material No.: 9266-A4

Batch No.: 25A2862010

Manufactured Date: 2024-12-18

Expiration Date: 2026-03-19

Revision No.: 0

## Certificate of Analysis

| Test                                                                                       | Specification          | Result  |
|--------------------------------------------------------------------------------------------|------------------------|---------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                       | $\leq 5$               | <1      |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                        | $\leq 10$              | 2       |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 99.9 %  |
| Color (APHA)                                                                               | $\leq 10$              | 5       |
| Residue after Evaporation                                                                  | $\leq 1.0 \text{ ppm}$ | 0.3 ppm |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$             | <0.1    |
| Chloride (Cl)                                                                              | $\leq 10 \text{ ppm}$  | <5 ppm  |
| Water (by KF, coulometric)                                                                 | $\leq 0.02 \%$         | <0.01 % |

For Laboratory, Research, or Manufacturing Use

MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3942

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 25C1262005  
Manufactured Date: 2025-01-15  
Expiration Date: 2026-04-16  
Revision No.: 0

## Certificate of Analysis

| Test                                                                                             | Specification  | Result  |
|--------------------------------------------------------------------------------------------------|----------------|---------|
| FID-Sensitive Impurities (as 2-Octanol) Single Impurity Peak (ng/mL)                             | $\leq 5$       | 1       |
| ECD Sensitive Impurities (as Heptachlor Epoxide) Single Peak (pg/mL)                             | $\leq 10$      | 1       |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$ | 100.0 % |
| Color (APHA)                                                                                     | $\leq 10$      | 5       |
| Residue after Evaporation                                                                        | $\leq 1.0$ ppm | 0.1 ppm |
| Titration Acid ( $\mu$ eq/g)                                                                     | $\leq 0.3$     | <0.1    |
| Chloride (Cl)                                                                                    | $\leq 10$ ppm  | <5 ppm  |
| Water (by KF, coulometric)                                                                       | $\leq 0.02 \%$ | <0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

*Received on .*

E 3964

Jamie Croak  
Director Quality Operations, Bioscience Production

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

avantor™



MG157  
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

## Certificate of Analysis

| Test                                                        | Specification | Result      |
|-------------------------------------------------------------|---------------|-------------|
| ACS – Assay (H <sub>2</sub> SO <sub>4</sub> )               | 95.0 – 98.0 % | 96.2 %      |
| Appearance                                                  | Passes Test   | Passes Test |
| ACS – Color (APHA)                                          | <= 10         | 5           |
| ACS – Residue after Ignition                                | <= 3 ppm      | <1 ppm      |
| ACS – Substances Reducing Permanganate(as SO <sub>2</sub> ) | <= 2 ppm      | <2 ppm      |
| Ammonium (NH <sub>4</sub> )                                 | <= 1 ppm      | <1 ppm      |
| Chloride (Cl)                                               | <= 0.1 ppm    | <0.1 ppm    |
| Nitrate (NO <sub>3</sub> )                                  | <= 0.2 ppm    | 0.1 ppm     |
| Phosphate (PO <sub>4</sub> )                                | <= 0.5 ppm    | <0.1 ppm    |
| Trace Impurities – Aluminum (Al)                            | <= 30.0 ppb   | <5.0 ppb    |
| Arsenic & Antimony (as As)                                  | <= 4.0 ppb    | <2.0 ppb    |
| Trace Impurities – Boron (B)                                | <= 10.0 ppb   | <5.0 ppb    |
| Trace Impurities – Cadmium (Cd)                             | <= 2.0 ppb    | <1.0 ppb    |
| Trace Impurities – Chromium (Cr)                            | <= 6.0 ppb    | <1.0 ppb    |
| Trace Impurities – Cobalt (Co)                              | <= 0.5 ppb    | <0.3 ppb    |
| Trace Impurities – Copper (Cu)                              | <= 1.0 ppb    | <1.0 ppb    |
| Trace Impurities – Gold (Au)                                | <= 10.0 ppb   | <5.0 ppb    |
| Heavy Metals (as Pb)                                        | <= 500.0 ppb  | <100.0 ppb  |
| Trace Impurities – Iron (Fe)                                | <= 50.0 ppb   | <1.0 ppb    |
| Trace Impurities – Lead (Pb)                                | <= 0.5 ppb    | <0.5 ppb    |
| Trace Impurities – Magnesium (Mg)                           | <= 7.0 ppb    | <1.0 ppb    |
| Trace Impurities – Manganese (Mn)                           | <= 1.0 ppb    | <1.0 ppb    |
| Trace Impurities – Mercury (Hg)                             | <= 0.5 ppb    | <0.1 ppb    |
| Trace Impurities – Nickel (Ni)                              | <= 2.0 ppb    | <0.3 ppb    |
| Trace Impurities – Potassium (K)                            | <= 500.0 ppb  | <10.0 ppb   |
| Trace Impurities – Selenium (Se)                            | <= 50.0 ppb   | 7.2 ppb     |
| Trace Impurities – Silicon (Si)                             | <= 100.0 ppb  | 12.8 ppb    |
| Trace Impurities – Silver (Ag)                              | <= 1.0 ppb    | <1.0 ppb    |

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



Sulfuric Acid

BAKER INSTRA-ANALYZED® Reagent

For Trace Metal Analysis

Low Selenium

 **avantor**™



Material No.: 9673-33

Batch No.: 2411262013

| Test                              | Specification    | Result      |
|-----------------------------------|------------------|-------------|
| Trace Impurities – Sodium (Na)    | $\leq 500.0$ ppb | $< 5.0$ ppb |
| Trace Impurities – Strontium (Sr) | $\leq 5.0$ ppb   | $< 1.0$ ppb |
| Trace Impurities – Tin (Sn)       | $\leq 5.0$ ppb   | 1.1 ppb     |
| Trace Impurities – Zinc (Zn)      | $\leq 5.0$ ppb   | $< 1.0$ ppb |

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC



Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

|                     |                 |                 |                    |                   |                                                       |
|---------------------|-----------------|-----------------|--------------------|-------------------|-------------------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                                   |
| Z-110094-02         | 506889          | ≤ -10 °C        | Methylene Chloride | 7/25/2028         | CLP Base/Neutral Surrogate Solution, 5,000 mg/L, 1 ml |

| Compound                           | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|------------------------------------|-----------|------------|------------------|---------------------|
| 1,2-dichlorobenzene-d <sub>4</sub> | 2199-69-1 | 99.7       | 247.29.3P        | 5035 ± 28.02        |
| 2-fluorobiphenyl                   | 321-60-8  | 99.69      | 8.286.1.1P       | 4999 ± 103.66       |
| nitrobenzene-d5                    | 4165-60-0 | 99.67      | 7.9.3P           | 4988 ± 27.32        |
| p-terphenyl-d14                    | 1718-51-0 | 99.3       | 9.120.8P         | 5005 ± 27.85        |

511494 } Y.P.  
↓ }  
511498 } 08/11/2023

\*Not a certified value

Certified By: \_\_\_\_\_

Clint Tipton  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555872 **Lot No.:** A0201728

**Description :** Custom Pentachlorophenol Standard

Custom Pentachlorophenol Standard 25,000µg/mL, Methanol, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

511649  
↓  
511658 } Y.P.  
11/13/23

### CERTIFIED VALUES

| Component # | Compound          | CAS #   | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|-------------------|---------|-------------|--------|-----------------------------|----------------------------------------|
| 1           | Pentachlorophenol | 87-86-5 | RP230530RSR | 99%    | 25,000.0 µg/mL              | +/- 777.0837                           |

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

Josh McCloskey - Operations Technician I

**Date Mixed:** 05-Sep-2023

**Balance:** B251644995

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31853 **Lot No.:** A0200655  
**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** August 31, 2028 **Storage:** 0°C or colder  
**Ship:** Ambient

S11795  
↓  
S11808 } RC /  
11/30/23

### CERTIFIED VALUES

| Elution Order | Compound    | CAS #    | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------|----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dioxane | 123-91-1 | SHBQ1693 | 99%    | 2,007.0 µg/mL               | +/- 24.9775                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant flow 1.8 mL/min.

**Temp. Program:**

80°C (hold 0.1 min.) to 330°C  
@ 9.6°C/min. (hold 2.86 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

340°C

**Det. Type:**

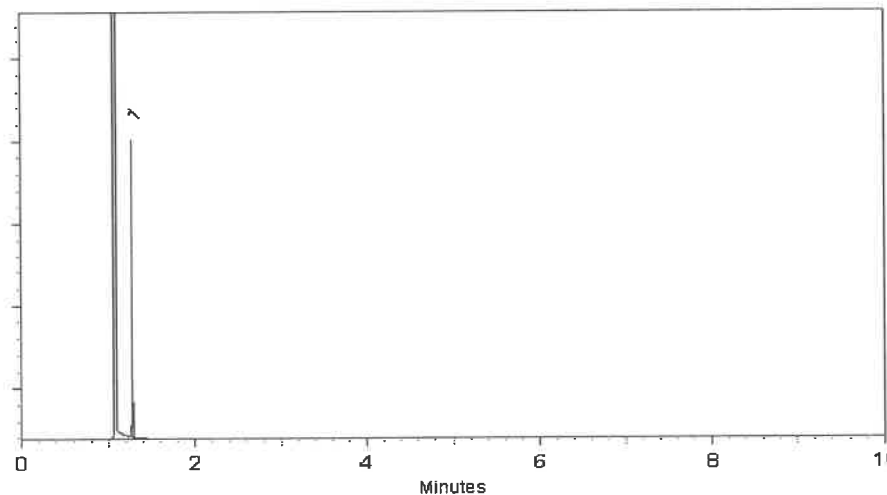
FID

**Split Vent:**

100 mL/min.

**Inj. Vol**

1µL



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Penelope Riglin - Operations Tech I

Date Mixed: 06-Aug-2023

Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 08-Aug-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



## FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 33913 **Lot No.:** A0201976

**Description :** SOM01.0 SIM Analysis Standard  
SOM01.0 SIM Analysis Standard 2000µg/mL, Methylene chloride, 1mL /ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** August 31, 2029 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S11828  
↓  
S11832 } RC/  
11/30/23

## CERTIFIED VALUES

| Elution Order | Compound                | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|-------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 2-Methylnaphthalene-d10 | 7297-45-2  | EF-135   | 98%    | 2,015.9 µg/mL               | +/- 90.8098                            |
| 2             | Fluoranthene-d10        | 93951-69-0 | PR-32557 | 99%    | 2,020.0 µg/mL               | +/- 90.9963                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%



## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

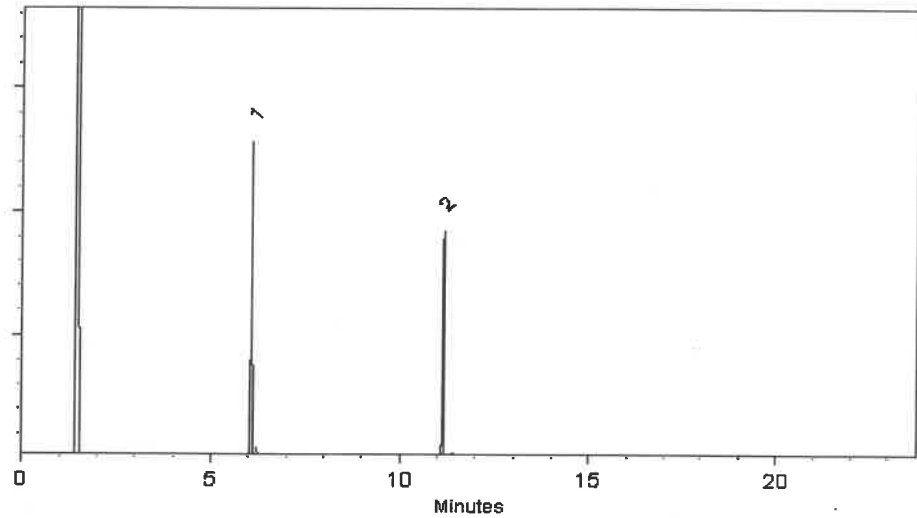
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

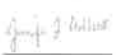


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Dakota Parson - Operations Technician I

Date Mixed: 13-Sep-2023

Balance Serial # B442140311

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 28-Sep-2023

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

| Catalog No.: | Lot No.: | Storage: | Solvent:     | Exp. Date: | Description:                             |                     |
|--------------|----------|----------|--------------|------------|------------------------------------------|---------------------|
| Z-020223-01  | 454157   | ≤ -10 °C | P/T Methanol | 6/10/2026  | 1,4-Dioxane Solution, 2000 mg/L,<br>1 mL |                     |
| Compound     |          |          | CAS No.      | Purity (%) | Compound Lot No.                         | Concentration, mg/L |
| 1,4-dioxane  |          |          | 123-91-1     | 100        | 223.1.3P                                 | 1997 ± 57.08        |

512112 } RC/  
↓  
912116 } 03/08/24

\*Not a certified value

Certified By: \_\_\_\_\_

Melissa Workoff  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓ } 03/18/24  
512206 }

### CERTIFIED VALUES

| Elution Order | Compound             | CAS #      | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty* (95% C.L.; K=2) |
|---------------|----------------------|------------|-------------|--------|-----------------------------|---------------------------------------|
| 1             | 2-Fluorophenol       | 367-12-4   | STBK1705    | 99%    | 10,005.3 µg/mL              | +/- 302.5390                          |
| 2             | Phenol-d6            | 13127-88-3 | PR-33287A   | 99%    | 10,005.5 µg/mL              | +/- 302.5475                          |
| 3             | 2,4,6-Tribromophenol | 118-79-6   | RP230831RSR | 99%    | 10,006.6 µg/mL              | +/- 302.5783                          |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methanol  
**CAS #** 67-56-1  
**Purity** 99%

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

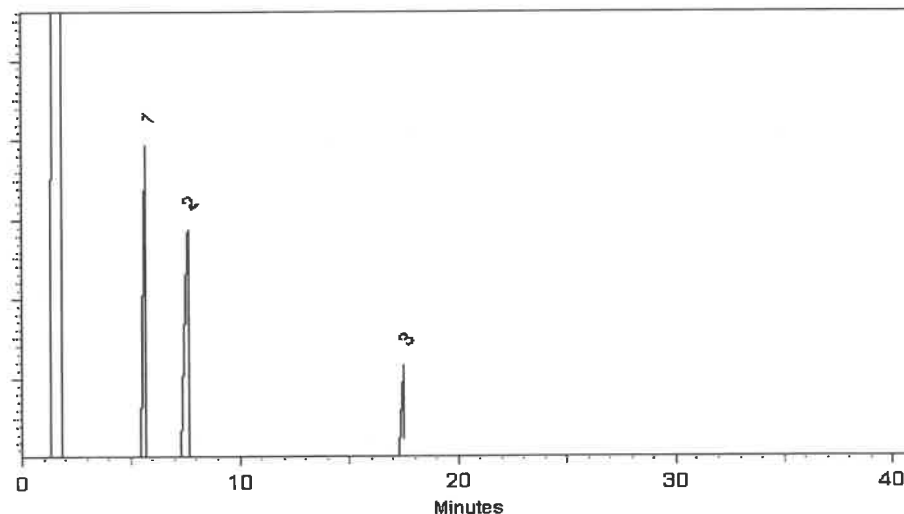
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

*Penelope S. Riglin*

Penelope Riglin - Operations Tech I

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

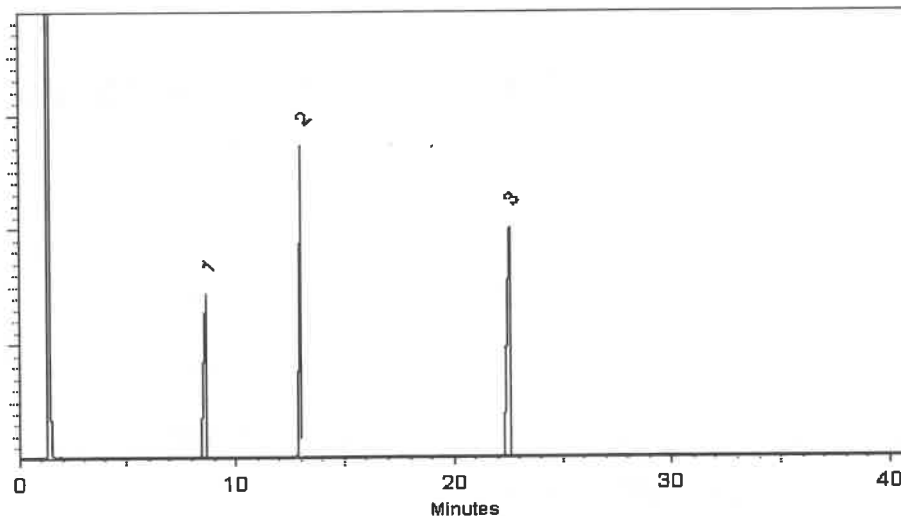
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Date Mixed: 09-Jan-2024 Balance Serial # 1128360905

Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 4

|                     |                 |                 |                    |                   |                                                                |
|---------------------|-----------------|-----------------|--------------------|-------------------|----------------------------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                                            |
| Z-110381-01         | 520963          | ≤ -10 °C        | Methylene Chloride | 10/10/2028        | Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL |

| Compound                          | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-----------------------------------|----------|------------|------------------|---------------------|
| acenaphthene                      | 83-32-9  | 99.9       | 13.1.5P          | 1010 ± 9.89         |
| acenaphthylene                    | 208-96-8 | 97.6       | 14.290.1P        | 1014 ± 9.93         |
| aniline                           | 62-53-3  | 99.97      | 64.1.4P          | 1001 ± 9.8          |
| anthracene                        | 120-12-7 | 99.5       | 15.7.1P          | 999.6 ± 9.79        |
| azobenzene                        | 103-33-3 | 98.1       | 252.7.2P         | 999.1 ± 9.8         |
| benzo[a]anthracene                | 56-55-3  | 100        | 16.7.3P          | 1007 ± 9.86         |
| benzo[b]fluoranthene              | 205-99-2 | 99.8       | 17.421.3P        | 1011 ± 14.11        |
| benzo[k]fluoranthene              | 207-08-9 | 98.9       | 18.421.4P        | 1001 ± 10.96        |
| benzo[ghi]perylene                | 191-24-2 | 93         | 19.286.4P        | 999.6 ± 13.95       |
| benzo[a]pyrene                    | 50-32-8  | 97         | 20.286.2P        | 999.9 ± 22.24       |
| benzyl alcohol                    | 100-51-6 | 99.9       | 65.18.1P         | 1001 ± 9.82         |
| bis(2-chloroethoxy)methane        | 111-91-1 | 99.1       | 31.3.15P         | 1000 ± 14.69        |
| bis(2-chloroethyl)ether           | 111-44-4 | 99.8       | 32.7.1P          | 1003 ± 13.89        |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5       | 34.3.15P         | 999.4 ± 14.68       |
| bis(2-ethylhexyl)adipate          | 103-23-1 | 99.5       | 874.7.1P         | 999.5 ± 9.8         |
| bis(2-ethylhexyl)phthalate        | 117-81-7 | 99.4       | 33.29.1P         | 998.8 ± 17.03       |
| 4-bromophenyl phenyl ether        | 101-55-3 | 99.4       | 35.7.1.1P        | 1000 ± 13.85        |
| butyl benzyl phthalate            | 85-68-7  | 98.4       | 36.1.6P          | 984.7 ± 16.79       |
| carbazole                         | 86-74-8  | 99.4       | 239.7.2P         | 1000 ± 9.8          |

\*Not a certified value

512270 } RC/  
↓  
512274 } 05/24/24

*Kerry Kane*

Certified By: \_\_\_\_\_

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



# Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|-----------|------------|------------------|---------------------|
| 4-chloroaniline            | 106-47-8  | 100        | 66.7.1P          | 1000 ± 9.79         |
| 4-chlorophenylphenyl ether | 7005-72-3 | 98         | 37.158.2P        | 1001 ± 17.07        |
| 4-chloro-3-methylphenol    | 59-50-7   | 99         | 102.1.2P         | 1006 ± 17.16        |
| 2-chloronaphthalene        | 91-58-7   | 99.9       | 42.7.6P          | 1000 ± 9.79         |
| 2-chlorophenol             | 95-57-8   | 99.8       | 103.7.1P         | 1007 ± 13.96        |
| chrysene                   | 218-01-9  | 96         | 21.286.2P        | 998.4 ± 12.85       |
| dibenz[a,h]anthracene      | 53-70-3   | 99.44      | 22.286.3P        | 1000 ± 9.74         |
| dibenzofuran               | 132-64-9  | 100        | 67.7.2.1P        | 1002 ± 9.77         |
| di-n-butyl phthalate       | 84-74-2   | 99.84      | 40.286.1P        | 1007 ± 24.48        |
| 1,2-dichlorobenzene        | 95-50-1   | 99.8       | 43.7.1P          | 1000 ± 9.79         |
| 1,3-dichlorobenzene        | 541-73-1  | 99.5       | 44.1.3P          | 999.4 ± 9.79        |
| 1,4-dichlorobenzene        | 106-46-7  | 99.9       | 45.29.2P         | 1000 ± 9.79         |
| 2,4-dichlorophenol         | 120-83-2  | 99.6       | 104.7.1.1P       | 1005 ± 13.93        |
| diethyl phthalate          | 84-66-2   | 99.8       | 38.7.1P          | 1011 ± 14           |
| 2,4-dimethylphenol         | 105-67-9  | 99.6       | 105.7.1.1P       | 1009 ± 13.98        |
| dimethyl phthalate         | 131-11-3  | 99.9       | 39.9.2P          | 996.5 ± 13.8        |
| 1,2-dinitrobenzene         | 528-29-0  | 99.86      | 86.7.3.1P        | 999.5 ± 9.75        |
| 1,3-dinitrobenzene         | 99-65-0   | 100        | 313.7.2P         | 998 ± 9.79          |
| 1,4-dinitrobenzene         | 100-25-4  | 100        | 907.7.1P         | 999.5 ± 9.8         |
| 2,4-dinitrophenol          | 51-28-5   | 99.9       | 106.1.6DP        | 1002 ± 13.89        |
| 2,4-dinitrotoluene         | 121-14-2  | 100        | 87.7.3P          | 999.8 ± 13.85       |
| 2,6-dinitrotoluene         | 606-20-2  | 99.4       | 88.7.2.1P        | 999.6 ± 13.85       |
| di-n-octyl phthalate       | 117-84-0  | 99.1       | 41.7.5P          | 991.6 ± 13.74       |
| diphenylamine              | 122-39-4  | 100        | 78.1.6P          | 998 ± 13.79         |
| 2,3,5,6-tetrachlorophenol  | 935-95-5  | 97         | 1112.286.1P      | 1004 ± 14.02        |
| fluoranthene               | 206-44-0  | 98.6       | 23.7.4P          | 999.6 ± 9.79        |
| fluorene                   | 86-73-7   | 98.4       | 24.7.1P          | 999.7 ± 9.79        |

\*Not a certified value

*Kerry Kane*

Certified By:

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

# Certificate of Analysis

Page 3 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|----------|------------|------------------|---------------------|
| hexachlorobenzene          | 118-74-1 | 99         | 46.158.4P        | 999.9 ± 13.96       |
| hexachlorobutadiene        | 87-68-3  | 97.4       | 47.1.4P          | 1000 ± 9.79         |
| hexachlorocyclopentadiene  | 77-47-4  | 99.2       | 48.2.2P          | 1001 ± 9.8          |
| hexachloroethane           | 67-72-1  | 99.9       | 49.1.4P          | 1003 ± 9.82         |
| indeno[1,2,3-cd]pyrene     | 193-39-5 | 98         | 25.286.4P        | 999.4 ± 22.23       |
| isophorone                 | 78-59-1  | 98.9       | 90.1.4P          | 999.9 ± 13.85       |
| 2-methyl-4,6-dinitrophenol | 534-52-1 | 99.6       | 107.421.2DP      | 991 ± 24.09         |
| 1-methylnaphthalene        | 90-12-0  | 97.1       | 249.7.5P         | 999.2 ± 13.95       |
| 2-methylnaphthalene        | 91-57-6  | 97.4       | 68.7.2P          | 1006 ± 22.38        |
| 2-methylphenol             | 95-48-7  | 99.6       | 114.7.3P         | 1001 ± 13.87        |
| 3-methylphenol             | 108-39-4 | 99.1       | 115.7.4P         | 499.7 ± 6.92        |
| 4-methylphenol             | 106-44-5 | 99.5       | 116.7.1P         | 501.2 ± 6.94        |
| naphthalene                | 91-20-3  | 99.8       | 26.9.1P          | 1018 ± 9.97         |
| 2-nitroaniline             | 88-74-4  | 99.7       | 69.29.1P         | 999.6 ± 9.79        |
| 3-nitroaniline             | 99-09-2  | 100        | 70.7.3P          | 1000 ± 9.74         |
| 4-nitroaniline             | 100-01-6 | 99.7       | 71.29.1P         | 1001 ± 9.8          |
| nitrobenzene               | 98-95-3  | 100        | 94.7.1P          | 1000 ± 13.85        |
| 2-nitrophenol              | 88-75-5  | 99.1       | 108.29.1P        | 996.5 ± 13.81       |
| 4-nitrophenol              | 100-02-7 | 100        | 109.7.1P         | 1000 ± 13.82        |
| N-nitrosodimethylamine     | 62-75-9  | 99.5       | 57.3.19P         | 998.5 ± 14.67       |
| N-nitrosodi-n-propylamine  | 621-64-7 | 99.8       | 59.286.1P        | 996.8 ± 17          |
| pentachlorophenol          | 87-86-5  | 99         | 110.1.7P         | 1004 ± 13.92        |
| phenanthrene               | 85-01-8  | 99.7       | 27.1.5P          | 999 ± 12.87         |
| phenol                     | 108-95-2 | 100        | 112.7.1P         | 998.5 ± 13.8        |
| pyrene                     | 129-00-0 | 99.2       | 28.9.2P          | 998.9 ± 9.78        |
| pyridine                   | 110-86-1 | 100        | 101.24.1P        | 999 ± 9.73          |
| 2,3,4,6-Tetrachlorophenol  | 58-90-2  | 91.8       | 120.421.1P       | 996.5 ± 13.92       |

\*Not a certified value

*Kerry Kane*

Certified By:

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

# Certificate of Analysis

Page 4 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| <u>Compound</u>        | <u>CAS No.</u> | <u>Purity (%)</u> | <u>Compound Lot No.</u> | <u>Concentration, mg/L</u> |
|------------------------|----------------|-------------------|-------------------------|----------------------------|
| 1,2,4-trichlorobenzene | 120-82-1       | 99.6              | 54.29.1P                | 999.6 ± 9.79               |
| 2,4,5-trichlorophenol  | 95-95-4        | 96.5              | 121.7.1.1P              | 999.5 ± 13.85              |
| 2,4,6-trichlorophenol  | 88-06-2        | 99.6              | 113.7.1P                | 996 ± 13.8                 |

\*Not a certified value



Certified By: \_\_\_\_\_

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



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Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555223 **Lot No.:** A0214021

**Description :** Custom 8270 Plus Standard #1

Custom 8270 Plus Standard #1 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Handling:** This product is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound               | CAS #     | Lot #      | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|------------------------|-----------|------------|--------|-----------------------------|----------------------------------------|
| 1           | 3,3'-Dichlorobenzidine | 91-94-1   | S240326RSR | 99%    | 1,004.0 µg/mL               | +/- 23.0487                            |
| 2           | Atrazine               | 1912-24-9 | 5FYWL      | 99%    | 1,005.0 µg/mL               | +/- 23.0717                            |
| 3           | Benzidine              | 92-87-5   | S240430RSR | 99%    | 1,006.0 µg/mL               | +/- 23.0947                            |
| 4           | epsilon-Caprolactam    | 105-60-2  | Y16H012    | 99%    | 1,000.0 µg/mL               | +/- 22.9569                            |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12449 } RC/  
↓  
S12508 } 7/24/24

Rebecca Gingerich - Operations Tech II

**Date Mixed:** 18-Jul-2024

**Balance:** 1128353505

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

www.restek.com

## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

  
Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31615 **Lot No.:** A0212955

**Description :** GC/MS Tuning Mixture  
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2027 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                             | CAS #     | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------------------|-----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pentachlorophenol                    | 87-86-5   | RP240517RSR | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 2             | DFTPP (Decafluorotriphenylphosphine) | 5074-71-5 | Q117-147    | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 3             | Benzidine                            | 92-87-5   | S240430RSR  | 99%    | 1,006.0 µg/mL               | +/- 44.9572                            |
| 4             | 4,4'-DDT                             | 50-29-3   | S240530RSR  | 97%    | 1,000.1 µg/mL               | +/- 44.6922                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12577 } RC  
↓  
S12579 } 8/2/24



## Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-5 (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

75°C (hold 1 min.) to 330°C  
@ 20°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

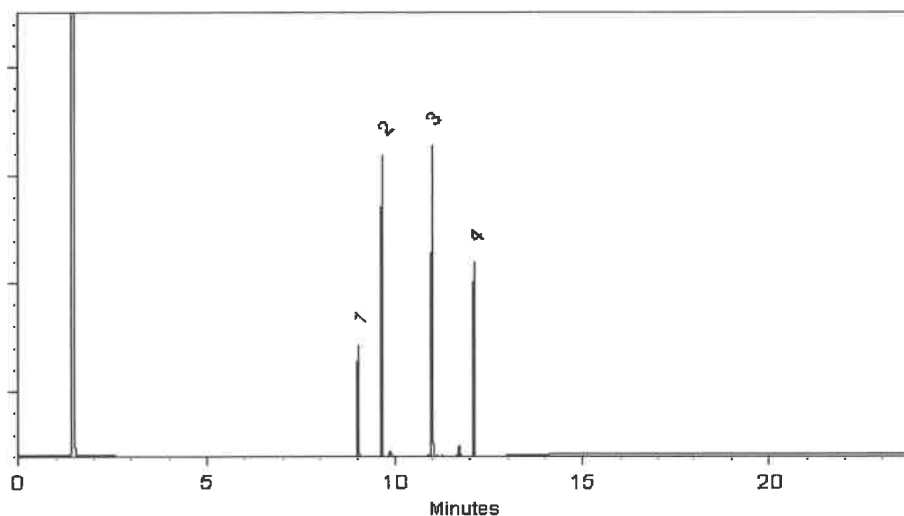
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

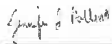


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
Ethan Winiarski - Operations Tech I

Date Mixed: 19-Jun-2024

Balance Serial # 1128353505

  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 26-Jun-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31206 **Lot No.:** A0212266

**Description :** SV Internal Standard Mix 2mg/ml  
SV Internal Standard Mix 2mg/ml 2000 µg/ml, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** April 30, 2030 **Storage:** 10°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound               | CAS #      | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------|------------|----------|--------|-----------------------------|----------------------------------------|
| 1             | 1,4-Dichlorobenzene-d4 | 3855-82-1  | PR-30447 | 99%    | 2,000.6 µg/mL               | +/- 90.1075                            |
| 2             | Naphthalene-d8         | 1146-65-2  | M-2180   | 99%    | 2,000.3 µg/mL               | +/- 90.0925                            |
| 3             | Acenaphthene-d10       | 15067-26-2 | PR-33507 | 99%    | 2,000.4 µg/mL               | +/- 90.1000                            |
| 4             | Phenanthrene-d10       | 1517-22-2  | PR-34099 | 99%    | 2,000.5 µg/mL               | +/- 90.1037                            |
| 5             | Chrysene-d12           | 1719-03-5  | PR-33506 | 99%    | 2,000.7 µg/mL               | +/- 90.1112                            |
| 6             | Perylene-d12           | 1520-96-3  | PR-33205 | 99%    | 2,000.6 µg/mL               | +/- 90.1075                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12645  
↓  
S12674 } AC  
10/1/24



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
Fax: 1-814-353-1309

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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31850 **Lot No.:** A0219438

**Description :** 8270 MegaMix®  
8270 MegaMix® 500-1000 µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** September 30, 2025 **Storage:** 0°C or colder

**Handling:** Sonication required. Mix is photosensitive. **Ship:** Ambient

S12963  
↓  
S12992 } AC  
12/17/24

### CERTIFIED VALUES

| Elution Order | Compound                     | CAS #    | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------------------|----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pyridine                     | 110-86-1 | SHBP6240    | 99%    | 1,008.3 µg/mL               | +/- 36.6849                            |
| 2             | N-Nitrosodimethylamine       | 62-75-9  | S240313RSR  | 99%    | 1,008.6 µg/mL               | +/- 36.6985                            |
| 3             | Phenol                       | 108-95-2 | MKCK1120    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 4             | Aniline                      | 62-53-3  | X22F726     | 99%    | 1,002.9 µg/mL               | +/- 36.4893                            |
| 5             | Bis(2-chloroethyl)ether      | 111-44-4 | 002891T24M  | 99%    | 1,003.0 µg/mL               | +/- 36.4938                            |
| 6             | 2-Chlorophenol               | 95-57-8  | STBJ3909    | 99%    | 1,005.6 µg/mL               | +/- 36.5894                            |
| 7             | 1,3-Dichlorobenzene          | 541-73-1 | BCCD5315    | 99%    | 1,004.1 µg/mL               | +/- 36.5348                            |
| 8             | 1,4-Dichlorobenzene          | 106-46-7 | MKBS7929V   | 99%    | 1,002.1 µg/mL               | +/- 36.4620                            |
| 9             | Benzyl alcohol               | 100-51-6 | SHBK5469    | 99%    | 1,003.5 µg/mL               | +/- 36.5120                            |
| 10            | 1,2-Dichlorobenzene          | 95-50-1  | SHBL6287    | 99%    | 1,005.3 µg/mL               | +/- 36.5757                            |
| 11            | 2-Methylphenol (o-cresol)    | 95-48-7  | SHBN7598    | 99%    | 1,008.4 µg/mL               | +/- 36.6894                            |
| 12            | 2,2'-oxybis(1-chloropropane) | 108-60-1 | 29-MAR-45-5 | 99%    | 1,004.6 µg/mL               | +/- 36.5530                            |
| 13            | 3-Methylphenol (m-cresol)    | 108-39-4 | STBJ0710    | 99%    | 502.1 µg/mL                 | +/- 18.2697                            |
| 14            | 4-Methylphenol (p-cresol)    | 106-44-5 | SHBN3411    | 99%    | 503.8 µg/mL                 | +/- 18.3288                            |
| 15            | N-Nitroso-di-n-propylamine   | 621-64-7 | N63MG       | 99%    | 1,006.5 µg/mL               | +/- 36.6212                            |
| 16            | Hexachloroethane             | 67-72-1  | DAXRI       | 99%    | 1,004.5 µg/mL               | +/- 36.5484                            |
| 17            | Nitrobenzene                 | 98-95-3  | 10224044    | 99%    | 1,002.5 µg/mL               | +/- 36.4757                            |

|    |                                               |           |                  |       |         |       |             |
|----|-----------------------------------------------|-----------|------------------|-------|---------|-------|-------------|
| 18 | Isophorone                                    | 78-59-1   | MKCR3249         | 99%   | 1,003.4 | µg/mL | +/- 36.5075 |
| 19 | 2-Nitrophenol                                 | 88-75-5   | RP230710         | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 20 | 2,4-Dimethylphenol                            | 105-67-9  | XW5GK            | 99%   | 1,006.5 | µg/mL | +/- 36.6212 |
| 21 | Bis(2-chloroethoxy)methane                    | 111-91-1  | 15705100         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 22 | 2,4-Dichlorophenol                            | 120-83-2  | BCKK6969         | 99%   | 1,001.5 | µg/mL | +/- 36.4393 |
| 23 | 1,2,4-Trichlorobenzene                        | 120-82-1  | SHBP5900         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 24 | Naphthalene                                   | 91-20-3   | STBL1057         | 99%   | 1,002.1 | µg/mL | +/- 36.4620 |
| 25 | 4-Chloroaniline                               | 106-47-8  | BCCJ3217         | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 26 | Hexachlorobutadiene                           | 87-68-3   | X05J             | 98%   | 1,002.5 | µg/mL | +/- 36.4771 |
| 27 | 4-Chloro-3-methylphenol                       | 59-50-7   | BCCD4461         | 99%   | 1,004.5 | µg/mL | +/- 36.5484 |
| 28 | 2-Methylnaphthalene                           | 91-57-6   | STBL3028         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 29 | 1-Methylnaphthalene                           | 90-12-0   | 5234.00-8        | 98%   | 990.2   | µg/mL | +/- 36.0269 |
| 30 | Hexachlorocyclopentadiene                     | 77-47-4   | 099063I14L       | 98%   | 1,001.3 | µg/mL | +/- 36.4325 |
| 31 | 2,4,6-Trichlorophenol                         | 88-06-2   | STBK8870         | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 32 | 2,4,5-Trichlorophenol                         | 95-95-4   | 3YFRE            | 97%   | 1,004.6 | µg/mL | +/- 36.5505 |
| 33 | 2-Chloronaphthalene                           | 91-58-7   | RPN7O            | 99%   | 1,004.3 | µg/mL | +/- 36.5393 |
| 34 | 2-Nitroaniline                                | 88-74-4   | RP240715RSR      | 99%   | 1,004.4 | µg/mL | +/- 36.5439 |
| 35 | 1,4-Dinitrobenzene                            | 100-25-4  | RP240703RSR      | 99%   | 1,002.8 | µg/mL | +/- 36.4847 |
| 36 | Acenaphthylene                                | 208-96-8  | RP241029RSR      | 98%   | 1,000.0 | µg/mL | +/- 36.3835 |
| 37 | 1,3-Dinitrobenzene                            | 99-65-0   | TRC3-1075941-2-1 | 99%   | 1,006.3 | µg/mL | +/- 36.6121 |
| 38 | Dimethylphthalate                             | 131-11-3  | 358221L17K       | 99%   | 1,008.9 | µg/mL | +/- 36.7076 |
| 39 | 2,6-Dinitrotoluene                            | 606-20-2  | BCCG1833         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 40 | 1,2-Dinitrobenzene                            | 528-29-0  | RP240701RSR      | 99%   | 1,002.5 | µg/mL | +/- 36.4757 |
| 41 | Acenaphthene                                  | 83-32-9   | MKCR7169         | 99%   | 1,000.0 | µg/mL | +/- 36.3847 |
| 42 | 3-Nitroaniline                                | 99-09-2   | RP240708RSR      | 99%   | 1,004.6 | µg/mL | +/- 36.5530 |
| 43 | 2,4-Dinitrophenol                             | 51-28-5   | D240927RSR       | ----% | 1,005.6 | µg/mL | +/- 36.5894 |
| 44 | Dibenzofuran                                  | 132-64-9  | MKCN1772         | 99%   | 1,003.5 | µg/mL | +/- 36.5120 |
| 45 | 2,4-Dinitrotoluene                            | 121-14-2  | 102869V26E       | 99%   | 1,008.3 | µg/mL | +/- 36.6849 |
| 46 | 4-Nitrophenol                                 | 100-02-7  | 20241029-2-AN    | 99%   | 1,004.8 | µg/mL | +/- 36.5575 |
| 47 | 2,3,4,6-Tetrachlorophenol                     | 58-90-2   | PR-34476         | 99%   | 1,005.8 | µg/mL | +/- 36.5939 |
| 48 | 2,3,5,6-Tetrachlorophenol                     | 935-95-5  | RP231219RSR      | 99%   | 1,006.4 | µg/mL | +/- 36.6166 |
| 49 | Fluorene                                      | 86-73-7   | 10246250         | 98%   | 1,000.7 | µg/mL | +/- 36.4102 |
| 50 | 4-Chlorophenyl phenyl ether                   | 7005-72-3 | MKCT7248         | 99%   | 1,004.9 | µg/mL | +/- 36.5621 |
| 51 | Diethylphthalate                              | 84-66-2   | BCCJ6241         | 99%   | 1,003.9 | µg/mL | +/- 36.5257 |
| 52 | 4-Nitroaniline                                | 100-01-6  | RP230111         | 99%   | 1,006.6 | µg/mL | +/- 36.6257 |
| 53 | 4,6-Dinitro-2-methylphenol (Dinitro-o-cresol) | 534-52-1  | S241008RSR       | 99%   | 1,001.3 | µg/mL | +/- 36.4302 |

|    |                            |          |              |     |         |       |             |
|----|----------------------------|----------|--------------|-----|---------|-------|-------------|
| 54 | Diphenylamine              | 122-39-4 | MKCT1512     | 99% | 1,003.0 | µg/mL | +/- 36.4938 |
| 55 | Azobenzene                 | 103-33-3 | BCKK0887     | 99% | 1,002.4 | µg/mL | +/- 36.4711 |
| 56 | 4-Bromophenyl phenyl ether | 101-55-3 | STBH6361     | 99% | 1,008.8 | µg/mL | +/- 36.7031 |
| 57 | Hexachlorobenzene          | 118-74-1 | 15458400     | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 58 | Pentachlorophenol          | 87-86-5  | RP240517RSR  | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 59 | Phenanthrene               | 85-01-8  | MKCT3391     | 99% | 1,004.9 | µg/mL | +/- 36.5621 |
| 60 | Anthracene                 | 120-12-7 | 101492T18R   | 99% | 1,005.1 | µg/mL | +/- 36.5712 |
| 61 | Carbazole                  | 86-74-8  | 15276700     | 99% | 1,005.4 | µg/mL | +/- 36.5803 |
| 62 | Di-n-butylphthalate        | 84-74-2  | MKCN4337     | 99% | 1,006.3 | µg/mL | +/- 36.6121 |
| 63 | Fluoranthene               | 206-44-0 | MKCQ4728     | 99% | 1,003.5 | µg/mL | +/- 36.5120 |
| 64 | Pyrene                     | 129-00-0 | BCKK2592     | 99% | 1,002.0 | µg/mL | +/- 36.4575 |
| 65 | Benzyl butyl phthalate     | 85-68-7  | X12I018      | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 66 | Bis(2-ethylhexyl)adipate   | 103-23-1 | MKCM1988     | 99% | 1,005.9 | µg/mL | +/- 36.5984 |
| 67 | Benz(a)anthracene          | 56-55-3  | I70012022BAA | 99% | 1,005.5 | µg/mL | +/- 36.5848 |
| 68 | Chrysene                   | 218-01-9 | RP241007RSR  | 99% | 1,005.3 | µg/mL | +/- 36.5757 |
| 69 | Bis(2-ethylhexyl)phthalate | 117-81-7 | MKCS8065     | 99% | 1,007.5 | µg/mL | +/- 36.6576 |
| 70 | Di-n-octyl phthalate       | 117-84-0 | 15566400     | 99% | 1,002.3 | µg/mL | +/- 36.4666 |
| 71 | Benzo(b)fluoranthene       | 205-99-2 | 052013B      | 99% | 1,004.1 | µg/mL | +/- 36.5348 |
| 72 | Benzo(k)fluoranthene       | 207-08-9 | 012022K      | 99% | 1,002.8 | µg/mL | +/- 36.4847 |
| 73 | Benzo(a)pyrene             | 50-32-8  | NQLXA        | 98% | 1,006.2 | µg/mL | +/- 36.6108 |
| 74 | Indeno(1,2,3-cd)pyrene     | 193-39-5 | 12-JKL-118-9 | 97% | 1,001.8 | µg/mL | +/- 36.4490 |
| 75 | Dibenz(a,h)anthracene      | 53-70-3  | 2-ASA-59-1   | 99% | 1,003.3 | µg/mL | +/- 36.5029 |
| 76 | Benzo(g,h,i)perylene       | 191-24-2 | RP241014RSR  | 98% | 1,003.8 | µg/mL | +/- 36.5217 |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

#### **Tech Tips:**

N-Nitrosodiphenylamine (86-30-6) is prone to breakdown in the injection port and will be converted to Diphenylamine (122-39-4). When comparing the response of Diphenylamine to mixtures manufactured using N-Nitrosodiphenylamine, a difference in response will be observed. The ratio of the MW can be used to calculate the theoretical concentration of the N-Nitrosodiphenylamine.



5580 Skyline Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

| Catalog No.: | Lot No.: | Storage:                   | Solvent:           | Exp. Date: | Description:                              |
|--------------|----------|----------------------------|--------------------|------------|-------------------------------------------|
| Z-110816-01  | 531243   | $\leq -10^{\circ}\text{C}$ | Methylene Chloride | 1/2/2030   | Custom 8270 Mix, 4-79,<br>1000 mg/L, 1 mL |

| Compound    | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-------------|-----------|------------|------------------|---------------------|
| atrazine    | 1912-24-9 | 99.5       | 337.7.4P         | 997 $\pm$ 5.81      |
| benzidine   | 92-87-5   | 99.9       | 124.18.6.2P      | 993.8 $\pm$ 5.78    |
| caprolactam | 105-60-2  | 99.9       | 271.1.6P         | 999 $\pm$ 5.82      |

513057 } AC  
↓  
513061 } 1/16/25

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

Certified By: \_\_\_\_\_

Melissa Workoff  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.



# SHIPPING DOCUMENTS

CLIENT INFORMATION

REPORT TO BE SENT TO:

COMPANY: **Jacobs**  
ADDRESS: **412 Mt Kemble Ave Suite 100**  
CITY: **Morrisstown** STATE: **NJ** ZIP: **07960**  
ATTENTION: **John Ynfante John.Ynfante@jacobs.com**  
PHONE: FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: **STC PTC**  
PROJECT NO.: **D3868221** LOCATION: **Princeton Junction**  
PROJECT MANAGER: **Mary Murphy**  
e-mail: **Mary.Murphy@Jacobs.com**  
PHONE: FAX:

CLIENT BILLING INFORMATION

BILL TO: **Mary Murphy** PO#:  
ADDRESS:  
CITY STATE: ZIP:  
ATTENTION: PHONE:

ANALYSIS

DATA TURNAROUND INFORMATION

FAX (RUSH) **Standard TAT** DAYS\*  
HARDCOPY (DATA PACKAGE): DAYS\*  
EDD: DAYS\*  
\*TO BE APPROVED BY CHEMTECH  
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☐ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)  
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP  
☐ Level 3 (Results + QC) ☐ NYS ASP A ☐ NYS ASP B  
+ Raw Data ☐ Other  
☐ EDD FORMAT

1. SPECIFIC VOL% (4.100-12.4)  
2. I.H. DIOL (6.000-10.000)  
3. TOTAL WAXES (6.000-10.000)  
4. DIOL (6.000-10.000)  
5. ALKYL (6.000-10.000)  
6. TDS (5.000-10.000)  
7. AMON (5.000-10.000)  
8. TRAC (5.000-10.000)  
9. STAM (5.000-10.000)

| ALLIANCE<br>SAMPLE<br>ID | PROJECT<br>SAMPLE IDENTIFICATION                       | SAMPLE<br>MATRIX | SAMPLE<br>TYPE |      | SAMPLE<br>COLLECTION |      | # OF BOTTLES | PRESERVATIVES |   |     |   |   |   |   |     |   | COMMENTS                                              |                            |
|--------------------------|--------------------------------------------------------|------------------|----------------|------|----------------------|------|--------------|---------------|---|-----|---|---|---|---|-----|---|-------------------------------------------------------|----------------------------|
|                          |                                                        |                  | COMP           | GRAB | DATE                 | TIME |              | A/E           | E | B/E | E | E | E | E | A/E |   | ← Specify Preservatives<br>A-HCl<br>B-HNO3<br>C-H2SO4 | D-NaOH<br>E-ICE<br>F-OTHER |
|                          |                                                        |                  |                |      |                      |      |              | 1             | 2 | 3   | 4 | 5 | 6 | 7 | 8   | 9 |                                                       |                            |
| 1.                       | RMW-03B-90.4-08122025                                  | GW               |                | ✓    | 8/12/25              | 1230 | 6            | ✓             | ✓ |     |   |   |   | ✓ |     |   |                                                       |                            |
| 2.                       | <del>RMW-02B-66.3-08122025</del> RMW-02B-66.3-08122025 | GW               |                | ✓    | 8/12/25              | 1530 | 5            | ✓             | ✓ |     |   |   |   | ✓ |     |   |                                                       |                            |
| 3.                       | MW-17B-55.5-08122025                                   | GW               |                | ✓    | 8/14/25              | 1154 | 27           | ✓             | ✓ | ✓   | ✓ | ✓ | ✓ | ✓ |     |   | MS/MSD                                                |                            |
| 4.                       | MW-06-6.5-08122025                                     | GW               |                | ✓    | 8/14/25              | 1530 | 2            |               | ✓ |     |   |   |   |   |     |   |                                                       |                            |
| 5.                       | MW-17B-55.5-081225-SIM                                 | GW               |                | ✓    | 8/12/25              | 1154 | 3            |               |   |     |   |   |   |   | ✓   |   |                                                       |                            |
| 6.                       | TB01-081225                                            | DI               |                | ✓    | 8/12/25              | 1600 | 2            | ✓             |   |     |   |   |   |   |     |   |                                                       |                            |
| 7.                       |                                                        |                  |                |      |                      |      |              |               |   |     |   |   |   |   |     |   |                                                       |                            |
| 8.                       |                                                        |                  |                |      |                      |      |              |               |   |     |   |   |   |   |     |   |                                                       |                            |
| 9.                       |                                                        |                  |                |      |                      |      |              |               |   |     |   |   |   |   |     |   |                                                       |                            |
| 10.                      |                                                        |                  |                |      |                      |      |              |               |   |     |   |   |   |   |     |   |                                                       |                            |

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

|                                               |                           |                                   |                                                                                                                                                                           |
|-----------------------------------------------|---------------------------|-----------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| RELINQUISHED BY SAMPLER:<br>1. <b>1700</b>    | DATE/TIME: <b>8/12/25</b> | RECEIVED BY:<br>1. <b>8-12-25</b> | Conditions of bottles or coolers at receipt: <input type="checkbox"/> COMPLIANT <input type="checkbox"/> NON COMPLIANT <input type="checkbox"/> COOLER TEMP <b>2.0</b> °C |
| RELINQUISHED BY SAMPLER:<br>2.                | DATE/TIME:                | RECEIVED BY:<br>2.                | Comments: <b>See work order for list of site specific VOGs</b>                                                                                                            |
| RELINQUISHED BY SAMPLER:<br>3. <b>8-12-25</b> | DATE/TIME: <b>8-12-25</b> | RECEIVED BY:<br>3.                | Comments: <b>Dissolved Iron is Picked Filtered</b>                                                                                                                        |



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**From:** Yazmeen Gomez  
**Sent:** Thursday, August 14, 2025 10:30 AM  
**To:** Ynfante, John; Sohil Jodhani  
**Cc:** Mohammad Ahmed  
**Subject:** RE: [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.  
**Attachments:** quant2841.pdf; quant2842.pdf

John,

The lab informed me –

Q2841- 42 sample screened with 8260 method as they are usually highly contaminated samples for Trichloroethene

Q2841-01 (MW-06-6.5-08122025) at 200x

Q2842-07(MW-17B-55.5-081225-SIM) 200x

Sample can be analyzed with 8260 under low dilution

Sim analysis is not possible as it may contaminate instrument

Please see attached.

**Best Regards,**



**Yazmeen** Gomez  
**Sr. Project Manager**  
**An Alliance Technical Group Company**  
**Main:** 908-789-8900  
**Direct:** 908-728-3147  
**Address:** 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
[www.alliancetg.com](http://www.alliancetg.com)    

---

**From:** Ynfante, John <John.Ynfante@jacobs.com>  
**Sent:** Wednesday, August 13, 2025 3:23 PM  
**To:** Sohil Jodhani <Sohil.Jodhani@alliancetg.com>  
**Cc:** Yazmeen Gomez <Yazmeen.Gomez@AllianceTG.com>; Mohammad Ahmed <mohammad.ahmed@alliancetg.com>; Nimisha Pandya <Nimisha.Pandya@AllianceTG.com>  
**Subject:** RE: [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.

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Thanks Sohil

**From:** Sohil Jodhani <[Sohil.Jodhani@alliancetg.com](mailto:Sohil.Jodhani@alliancetg.com)>  
**Sent:** Wednesday, August 13, 2025 1:23 PM  
**To:** Ynfante, John <[John.Ynfante@jacobs.com](mailto:John.Ynfante@jacobs.com)>  
**Cc:** Yazmeen Gomez <[Yazmeen.Gomez@AllianceTG.com](mailto:Yazmeen.Gomez@AllianceTG.com)>; Mohammad Ahmed <[mohammad.ahmed@alliancetg.com](mailto:mohammad.ahmed@alliancetg.com)>;  
 Nimisha Pandya <[Nimisha.Pandya@AllianceTG.com](mailto:Nimisha.Pandya@AllianceTG.com)>  
**Subject:** RE: [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.

Hi John,

Sample IDs are updated as per below request. Lab will notify you if in case VOC-SIM (for Vinyl chloride) is not required for the samples based on low level VOA analysis.

Thanks & Regards,



**Sohil Jodhani** (he/him/his)  
 QA/QC Director  
 Alliance Technical Group, LLC-Newark  
 Main: 908-789-8900  
 Direct: 908-728-3152  
 Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
[www.alliancetg.com](http://www.alliancetg.com)    

**From:** Mohammad Ahmed <[mohammad.ahmed@alliancetg.com](mailto:mohammad.ahmed@alliancetg.com)>  
**Sent:** Wednesday, August 13, 2025 2:10 PM  
**To:** Ynfante, John <[John.Ynfante@jacobs.com](mailto:John.Ynfante@jacobs.com)>; Data-EWR <[Data-EWR@alliancetg.com](mailto:Data-EWR@alliancetg.com)>; Yazmeen Gomez <[yazmeen.gomez@alliancetg.com](mailto:yazmeen.gomez@alliancetg.com)>  
**Cc:** Sohil Jodhani <[Sohil.Jodhani@alliancetg.com](mailto:Sohil.Jodhani@alliancetg.com)>  
**Subject:** Re: [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.

Hi John,

yaz is out of the office today, but I will coordinate with lab to make sure we communicate with you and run these analysis accordingly



**Mohammad Ahmed**  
 Laboratory Director  
 An Alliance Technical Group Company  
 Main: 908-789-8900  
 Direct: 908-728-3151  
 Address: 284 Sheffield St, Ste 1, Mountainside, NJ 07092  
[www.alliancetg.com](http://www.alliancetg.com)

**From:** Ynfante, John <[John.Ynfante@jacobs.com](mailto:John.Ynfante@jacobs.com)>

**Sent:** Wednesday, August 13, 2025 2:01 PM

**To:** Data-EWR <[Data-EWR@alliancetg.com](mailto:Data-EWR@alliancetg.com)>; Yazmeen Gomez <[yazmeen.gomez@alliancetg.com](mailto:yazmeen.gomez@alliancetg.com)>

**Subject:** RE: [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.

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Secured by Check Point

Yazmeen,

A couple of comments on this Princeton login for Q2842:

1. I assume your SFAM-SIM method for VOCs can still only report vinyl chloride out of our project list of VOCs – if that is the case then note that sample Q2842-07 (MW-17B-55.5-081225-SIM) and any other SFAM-SIM samples only need to be analyzed if their corresponding 8260D-Low analysis shows the vinyl chloride to be non-detect and of course if the lab is able to analyze them by SIM. I know up to this point the lab has said the concentrations have been too high in the SIM samples to even run the SFAM-SIM on so let me know how it looks on those after your analysts run the regular VOCs run on them.
2. The date part of the sample IDs should have used a MMDDYY format, not MMDDYYYY as is listed on the chain. Please change the “2025” bit to just “25” on all these sample IDs. For example, “RMW-03B-90.4-08122025” should be changed to “RMW-03B-90.4-081225”, etc.

Thanks

- John Y.

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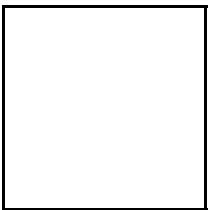
**From:** [Data-EWR@alliancetg.com](mailto:Data-EWR@alliancetg.com) <[Data-EWR@alliancetg.com](mailto:Data-EWR@alliancetg.com)>

**Sent:** Wednesday, August 13, 2025 9:38 AM

**To:** Ongjoco, Alec <[Alec.Ongjoco@jacobs.com](mailto:Alec.Ongjoco@jacobs.com)>; Dillon, Alexa <[Alexa.Dillon@jacobs.com](mailto:Alexa.Dillon@jacobs.com)>; Lader, Chelsea <[Chelsea.Lader@jacobs.com](mailto:Chelsea.Lader@jacobs.com)>; Holmes, Daniel <[Daniel.Holmes@jacobs.com](mailto:Daniel.Holmes@jacobs.com)>; Reamer, David <[David.Reamer@jacobs.com](mailto:David.Reamer@jacobs.com)>; Ynfante, John <[John.Ynfante@jacobs.com](mailto:John.Ynfante@jacobs.com)>; Murphy, Mary <[Mary.Murphy@jacobs.com](mailto:Mary.Murphy@jacobs.com)>; Warren, Melissa <[Melissa.Warren@jacobs.com](mailto:Melissa.Warren@jacobs.com)>; Asher, Sarah <[Sarah.Asher@jacobs.com](mailto:Sarah.Asher@jacobs.com)>

**Cc:** [yazmeen.gomez@alliancetg.com](mailto:yazmeen.gomez@alliancetg.com)

**Subject:** [EXTERNAL] Login Summary Details For Project Former Schlumberger STC PTC Site D3868221-Q2842.



**To John Ynfante;**

**Please see the attached Login Summary for the following project, or download the file using your login credentials from the link below.**

**Order ID** : Q2842  
**Project ID** : Former Schlumberger STC PTC Site D3868221  
**Download File** : <https://chemtech.net/secureLogin.aspx>  
**Order Date** : 8/13/2025 8:34:00 AM

**Alliance's Project Manager** : YAZMEEN GOMEZ , [yazmeen.gomez@alliancetg.com](mailto:yazmeen.gomez@alliancetg.com) , 908-728-3147  
**Alliance's Sales Executive** : Jordan Hedvat , [jordan.hedvat@alliancetg.com](mailto:jordan.hedvat@alliancetg.com) , 908-728-3144

Thank you for the opportunity to provide you with our services. For any questions please feel free to contact your project manager.

Click Here for our short online customer Survey <http://chemtech.net/ClientSurvey.aspx>.

**Thank you,**

**Alliance Technical Group LLC.**

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### Laboratory Certification

| Certified By    | License No.      |
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|                 |                  |
| Connecticut     | PH-0830          |
|                 |                  |
| DOD ELAP (ANAB) | L2219            |
|                 |                  |
| Maine           | 2024021          |
|                 |                  |
| Maryland        | 296              |
|                 |                  |
| New Hampshire   | 255425           |
|                 |                  |
| New Jersey      | 20012            |
|                 |                  |
| New York        | 11376            |
|                 |                  |
| Pennsylvania    | 68-00548         |
|                 |                  |
| Soil Permit     | 525-24-234-08441 |
|                 |                  |
| Texas           | TX-C25-00189     |
|                 |                  |
| Virginia        | 460312           |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

## LOGIN REPORT/SAMPLE TRANSFER

|                                               |        |                                                |                                             |
|-----------------------------------------------|--------|------------------------------------------------|---------------------------------------------|
| <b>Order ID :</b> Q2842                       | JACO05 | <b>Order Date :</b> 8/13/2025 8:34:00 AM       | <b>Project Mgr :</b> Deepak                 |
| <b>Client Name :</b> JACOBS Engineering Grou  |        | <b>Project Name :</b> Former Schlumberger STC  | <b>Report Type :</b> Level 34               |
| <b>Client Contact :</b> John Ynfante          |        | <b>Receive DateTime :</b> 8/12/2025 6:22:00 PM | <b>EDD Type :</b> CH2MHILL                  |
| <b>Invoice Name :</b> JACOBS Engineering Grou |        | <b>Purchase Order :</b>                        | <b>Hard Copy Date :</b>                     |
| <b>Invoice Contact :</b> John Ynfante         |        |                                                | <b>Date Signoff :</b> 8/13/2025 10:38:03 AM |

| LAB ID   | CLIENT ID           | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST         | TEST GROUP | METHOD   | FAX DATE     | DUE DATES |
|----------|---------------------|--------|-------------|-------------|--------------|------------|----------|--------------|-----------|
| Q2842-01 | RMW-03B-90.4-081225 | Water  | 08/12/2025  | 12:30       |              |            |          |              |           |
|          |                     |        |             |             | VOCMS Group3 |            | 8260-Low | 10 Bus. Days |           |
| Q2842-02 | RMW-02B-66.3-081225 | Water  | 08/12/2025  | 15:30       |              |            |          |              |           |
|          |                     |        |             |             | VOCMS Group3 |            | 8260-Low | 10 Bus. Days |           |
| Q2842-03 | MW-17B-55.5-081225  | Water  | 08/12/2025  | 11:54       |              |            |          |              |           |
|          |                     |        |             |             | VOCMS Group3 |            | 8260-Low | 10 Bus. Days |           |
| Q2842-04 | Q2842-03MS          | Water  | 08/12/2025  | 11:54       |              |            |          |              |           |
|          |                     |        |             |             | VOCMS Group3 |            | 8260-Low | 10 Bus. Days |           |
| Q2842-05 | Q2842-03MSD         | Water  | 08/12/2025  | 11:54       |              |            |          |              |           |
|          |                     |        |             |             | VOCMS Group3 |            | 8260-Low | 10 Bus. Days |           |
| Q2842-08 | TB01-081225         | Water  | 08/12/2025  | 16:00       |              |            |          |              |           |
|          |                     |        |             |             | VOCMS Group3 |            | 8260-Low | 10 Bus. Days |           |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

### LOGIN REPORT/SAMPLE TRANSFER

|                                               |        |                                                |                                             |
|-----------------------------------------------|--------|------------------------------------------------|---------------------------------------------|
| <b>Order ID :</b> Q2842                       | JACO05 | <b>Order Date :</b> 8/13/2025 8:34:00 AM       | <b>Project Mgr :</b> Deepak                 |
| <b>Client Name :</b> JACOBS Engineering Grou  |        | <b>Project Name :</b> Former Schlumberger STC  | <b>Report Type :</b> Level 3 4              |
| <b>Client Contact :</b> John Ynfante          |        | <b>Receive DateTime :</b> 8/12/2025 6:22:00 PM | <b>EDD Type :</b> CH2MHILL                  |
| <b>Invoice Name :</b> JACOBS Engineering Grou |        | <b>Purchase Order :</b>                        | <b>Hard Copy Date :</b>                     |
| <b>Invoice Contact :</b> John Ynfante         |        |                                                | <b>Date Signoff :</b> 8/13/2025 10:38:03 AM |

| LAB ID | CLIENT ID | MATRIX | SAMPLE<br>DATE | SAMPLE<br>TIME | TEST | TEST GROUP | METHOD | FAX DATE | DUE<br>DATES |
|--------|-----------|--------|----------------|----------------|------|------------|--------|----------|--------------|
|--------|-----------|--------|----------------|----------------|------|------------|--------|----------|--------------|

Relinquished By :

Date / Time :

df  
8/13/25 09:15

Received By :

Date / Time :

Sum  
08/13/25 09:15

Storage Area : VOA Refridgerator Room

Rg 44