

**DATA PACKAGE**  
**SEMI-VOLATILE ORGANICS**

**PROJECT NAME : NWIRP BETHPAGE 112G08005-WE13**

**TETRA TECH NUS, INC.**  
**661 Andersen Drive**  
**Suite 200**  
**Pittsburgh, PA - 15220-2745**  
**Phone No: 412-921-7090**

**ORDER ID : Q3213**  
**ATTENTION : Ernie Wu**



**Laboratory Certification ID # 20012**



|                                             |     |
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## Cover Page

**Order ID :** Q3213

**Project ID :** NWIRP Bethpage 112G08005-WE13

**Client :** Tetra Tech NUS, Inc.

### Lab Sample Number

Q3213-01  
Q3213-02  
Q3213-03  
Q3213-04  
Q3213-05  
Q3213-06  
Q3213-07  
Q3213-08  
Q3213-09  
Q3213-10

### Client Sample Number

BP-VPB-184-TB-20250923  
VPB184-HYD-20250924  
BP-VPB-184-GW-340-342  
BP-VPB-184-GW-360-362  
BP-VPB-184-GW-380-382  
BP-VPB-184-DUP-20250923  
BP-VPB-184-GW-400-402  
BP-VPB-184-GW-420-422  
BP-VPB-184-GW-440-442  
BP-VPB-184-EB-20250923

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 :

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 1:51 pm, Oct 09, 2025*

Date: 10/8/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

## **CASE NARRATIVE**

**Tetra Tech NUS, Inc.**

**Project Name: NWIRP Bethpage 112G08005-WE13**

**Project Manager : Ernie Wu**

**Order ID # Q3213**

**Test Name: SVOC-SIMGroup1**

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

6 Water samples were received on 09/25/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: SVOC-SIMGroup1. 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-GGA. The 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 were met for all analysis except for, VPB184-HYD-20250924 [2-Methylnaphthalene-d10 - 4%, Fluoranthene-d10 - 15%], failed due to matrix interference, as seen in the chromatogram. There was no additional volume of this water sample available for re-extraction and as re-analysis, , Therefor no further corrective action was taken.

BP-VPB-184-GW-380-382 [Terphenyl-d14 - 142%],

BP-VPB-184-GW-420-422 [Terphenyl-d14 - 151%] and

BP-VPB-184-EB-20250923 [Terphenyl-d14 - 147%]. Failed surrogate is not associated with DOD, Therefor no further corrective action was taken.

The Internal Standards Areas were met for all analysis.

The Retention Times were met for all analysis.

The RPD were met for all analysis.

The Blank Spike met requirements for all compounds.

The Blank Spike Duplicate met requirements for all compounds.

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.

**E. Additional Comments:**

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is).”

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

The not QT review data is reported in the Miscellaneous.

**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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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. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature\_\_\_\_\_

**APPROVED**

*By Nimisha Pandya, QA/QC Supervisor at 1:51 pm, Oct 09, 2025*

## 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>U</b>  | 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.                                                                                                                                                                                                                                                                                      |
| <b>ND</b> | Indicates the analyte was analyzed for, but not detected                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>J</b>  | Indicates an estimated value. This flag is used: <ul style="list-style-type: none"> <li>(1) When estimating a concentration for a tentatively identified compound (library search hits, where a 1:1 response is assumed.)</li> <li>(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.</li> </ul> |
| <b>B</b>  | Indicates the analyte was found in the blank as well as the sample report as “12 B”.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>E</b>  | Indicates the analyte ‘s concentration exceeds the calibrated range of the instrument for that specific analysis.                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>D</b>  | This flag identifies all compounds identified in an analysis at a secondary dilution factor.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>P</b>  | 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”.                                                                                                                                                                                                                                                                                                                                                                             |
| <b>N</b>  | 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.                                                                                                                                                                                                                                                                       |
| <b>A</b>  | This flag indicates that a Tentatively Identified Compound is a suspected aldol-condensation product.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Q</b>  | Indicates the LCS did not meet the control limits requirements                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

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

ORDER ID: Q3213

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.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |    |    | ✓   |
|    | 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |    | ✓   |
|    | If not met, list those compounds and their recoveries which fall outside the acceptable<br>ranges.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |    |    |     |
|    | The Surrogate recoveries were met for all analysis except for,<br>VPB184-HYD-20250924 [2-Methylnaphthalene-d10 - 4%, Fluoranthene-d10 - 15%],<br>failed due to matrix interference, as seen in the chromatogram. There was no additional<br>volume of this water sample available for re-extraction and as re-analysis, , Therefor no<br>further corrective action was taken.<br>BP-VPB-184-GW-380-382 [Terphenyl-d14 - 142%],<br>BP-VPB-184-GW-420-422 [Terphenyl-d14 - 151%] and<br>BP-VPB-184-EB-20250923 [Terphenyl-d14 - 147%]. Failed surrogate is not associated<br>with DOD, Therefor no further corrective action was taken. |    |    |     |

**GC/MS SEMI-VOLATILE ANALYSIS CONFORMANCE/NON-CONFORMANCE SUMMARY**  
**(CONTINUED)**

|     |                                                                                                                      | NA | NO | YES |
|-----|----------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 8.  | Matrix Spike/Matrix Spike Duplicate Recoveries Meet Criteria                                                         |    |    | ✓   |
|     | If not met, list those compounds and their recoveries which fall outside the acceptable range.                       |    |    |     |
|     | The Blank Spike met requirements for all compounds.<br>The Blank Spike Duplicate met requirements for all compounds. |    |    |     |
| 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:

The laboratory certifies that the all-electronic diskette deliverable exactly match the data summary forms (i.e. Form Is)."  
 The Form 6 is not included in the data package because the Initial Calibration was performed using 7 points.  
 The not QT review data is reported in the Miscellaneous.

QA REVIEW

**REVIEWED**

By Sohil Jodhani, QA/QC Director at 9:23 am, Oct 09, 2025

APPENDIX A

**QA REVIEW GENERAL DOCUMENTATION**

Project #: Q3213

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: 10/08/2025

## LAB CHRONICLE

|                 |                      |                   |                               |
|-----------------|----------------------|-------------------|-------------------------------|
| <b>OrderID:</b> | Q3213                | <b>OrderDate:</b> | 9/25/2025 2:33:00 PM          |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project:</b>   | NWIRP Bethpage 112G08005-WE13 |
| <b>Contact:</b> | Ernie Wu             | <b>Location:</b>  | A12,VOA Lab                   |

| LabID           | ClientID                       | Matrix       | Test           | Method        | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|--------------------------------|--------------|----------------|---------------|-----------------|-----------|-----------|-----------------|
| <b>Q3213-02</b> | <b>VPB184-HYD-20250924</b>     | <b>Water</b> |                |               | <b>09/24/25</b> |           |           | <b>09/25/25</b> |
|                 |                                |              | SVOC-SIMGroup1 | 8270-Modified |                 | 09/26/25  | 10/07/25  |                 |
| <b>Q3213-03</b> | <b>BP-VPB-184-GW-340-342</b>   | <b>Water</b> |                |               | <b>09/23/25</b> |           |           | <b>09/25/25</b> |
|                 |                                |              | SVOC-SIMGroup1 | 8270-Modified |                 | 09/26/25  | 10/07/25  |                 |
| <b>Q3213-05</b> | <b>BP-VPB-184-GW-380-382</b>   | <b>Water</b> |                |               | <b>09/23/25</b> |           |           | <b>09/25/25</b> |
|                 |                                |              | SVOC-SIMGroup1 | 8270-Modified |                 | 09/26/25  | 10/07/25  |                 |
| <b>Q3213-06</b> | <b>BP-VPB-184-DUP-20250923</b> | <b>Water</b> |                |               | <b>09/23/25</b> |           |           | <b>09/25/25</b> |
|                 |                                |              | SVOC-SIMGroup1 | 8270-Modified |                 | 09/26/25  | 10/07/25  |                 |
| <b>Q3213-08</b> | <b>BP-VPB-184-GW-420-422</b>   | <b>Water</b> |                |               | <b>09/24/25</b> |           |           | <b>09/25/25</b> |
|                 |                                |              | SVOC-SIMGroup1 | 8270-Modified |                 | 09/26/25  | 10/07/25  |                 |
| <b>Q3213-10</b> | <b>BP-VPB-184-EB-20250923</b>  | <b>Water</b> |                |               | <b>09/23/25</b> |           |           | <b>09/25/25</b> |
|                 |                                |              | SVOC-SIMGroup1 | 8270-Modified |                 | 09/26/25  | 10/07/25  |                 |

### Hit Summary Sheet SW-846

**SDG No.:** Q3213

**Client:** Tetra Tech NUS, Inc.

| Sample ID                                  | Client ID                   | Parameter                   | Concentration | C           | MDL  | LOD  | RDL  | Units |
|--------------------------------------------|-----------------------------|-----------------------------|---------------|-------------|------|------|------|-------|
| <b>Client ID : BP-VPB-184-GW-340-342</b>   |                             |                             |               |             |      |      |      |       |
| Q3213-03                                   | BP-VPB-184-GW-340-34 WATER  | 1,4-Dioxane                 | 0.270         |             | 0.07 | 0.21 | 0.21 | ug/L  |
|                                            |                             | <b>Total Svoc :</b>         |               | <b>0.27</b> |      |      |      |       |
|                                            |                             | <b>Total Concentration:</b> |               | <b>0.27</b> |      |      |      |       |
| <b>Client ID : BP-VPB-184-GW-380-382</b>   |                             |                             |               |             |      |      |      |       |
| Q3213-05                                   | BP-VPB-184-GW-380-38 WATER  | 1,4-Dioxane                 | 0.420         |             | 0.11 | 0.34 | 0.34 | ug/L  |
|                                            |                             | <b>Total Svoc :</b>         |               | <b>0.42</b> |      |      |      |       |
|                                            |                             | <b>Total Concentration:</b> |               | <b>0.42</b> |      |      |      |       |
| <b>Client ID : BP-VPB-184-DUP-20250923</b> |                             |                             |               |             |      |      |      |       |
| Q3213-06                                   | BP-VPB-184-DUP-202509 WATER | 1,4-Dioxane                 | 0.470         |             | 0.13 | 0.39 | 0.39 | ug/L  |
|                                            |                             | <b>Total Svoc :</b>         |               | <b>0.47</b> |      |      |      |       |
|                                            |                             | <b>Total Concentration:</b> |               | <b>0.47</b> |      |      |      |       |
| <b>Client ID : BP-VPB-184-GW-420-422</b>   |                             |                             |               |             |      |      |      |       |
| Q3213-08                                   | BP-VPB-184-GW-420-42 WATER  | 1,4-Dioxane                 | 0.330         |             | 0.07 | 0.21 | 0.21 | ug/L  |
|                                            |                             | <b>Total Svoc :</b>         |               | <b>0.33</b> |      |      |      |       |
|                                            |                             | <b>Total Concentration:</b> |               | <b>0.33</b> |      |      |      |       |
| <b>Client ID : BP-VPB-184-EB-20250923</b>  |                             |                             |               |             |      |      |      |       |
| Q3213-10                                   | BP-VPB-184-EB-202509 WATER  | 1,4-Dioxane                 | 0.300         |             | 0.09 | 0.27 | 0.27 | ug/L  |
|                                            |                             | <b>Total Svoc :</b>         |               | <b>0.30</b> |      |      |      |       |
|                                            |                             | <b>Total Concentration:</b> |               | <b>0.30</b> |      |      |      |       |



# QC SUMMARY

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### Surrogate Summary

SW-846

SDG No.: Q3213

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID               | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|-------------------------|-------------------------|-------------|--------------|--------------|------|------------|------|
|               |                         |                         |             |              |              |      | Low        | High |
| PB169904BL    | PB169904BL              | 2-Methylnaphthalene-d10 | 0.4         | 0.33         | 82           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.28         | 70           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.36         | 90           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.38         | 94           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.42         | 104          |      | 58         | 132  |
| PB169904BS    | PB169904BS              | 2-Methylnaphthalene-d10 | 0.4         | 0.35         | 87           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.28         | 69           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.36         | 91           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.37         | 93           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.44         | 111          |      | 58         | 132  |
| PB169904BSD   | PB169904BSD             | 2-Methylnaphthalene-d10 | 0.4         | 0.32         | 80           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.28         | 71           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.40         | 100          |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.37         | 91           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.51         | 128          |      | 58         | 132  |
| Q3213-02      | VPB184-HYD-20250924     | 2-Methylnaphthalene-d10 | 0.4         | 0.014        | 4            | *    | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.061        | 15           | *    | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.36         | 89           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.37         | 93           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.52         | 129          |      | 58         | 132  |
| Q3213-03      | BP-VPB-184-GW-340-342   | 2-Methylnaphthalene-d10 | 0.4         | 0.28         | 70           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.33         | 81           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.33         | 83           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.33         | 83           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.50         | 125          |      | 58         | 132  |
| Q3213-05      | BP-VPB-184-GW-380-382   | 2-Methylnaphthalene-d10 | 0.4         | 0.31         | 78           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.39         | 97           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.36         | 90           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.36         | 90           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.57         | 142          | *    | 58         | 132  |
| Q3213-06      | BP-VPB-184-DUP-20250923 | 2-Methylnaphthalene-d10 | 0.4         | 0.29         | 73           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.36         | 90           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.35         | 88           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.34         | 86           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.51         | 127          |      | 58         | 132  |
| Q3213-08      | BP-VPB-184-GW-420-422   | 2-Methylnaphthalene-d10 | 0.4         | 0.33         | 83           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.36         | 90           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.36         | 90           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.39         | 97           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.61         | 151          | *    | 58         | 132  |
| Q3213-10      | BP-VPB-184-EB-20250923  | 2-Methylnaphthalene-d10 | 0.4         | 0.29         | 72           |      | 30         | 150  |
|               |                         | Fluoranthene-d10        | 0.4         | 0.33         | 83           |      | 30         | 150  |
|               |                         | Nitrobenzene-d5         | 0.4         | 0.33         | 82           |      | 55         | 111  |
|               |                         | 2-Fluorobiphenyl        | 0.4         | 0.34         | 85           |      | 53         | 106  |
|               |                         | Terphenyl-d14           | 0.4         | 0.59         | 147          | *    | 58         | 132  |

### Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

|                 |                             |                           |                      |
|-----------------|-----------------------------|---------------------------|----------------------|
| <b>SDG No.:</b> | <u>Q3213</u>                | <b>Analytical Method:</b> | <u>8270-Modified</u> |
| <b>Client:</b>  | <u>Tetra Tech NUS, Inc.</u> | <b>DataFile:</b>          | <u>BN038037.D</u>    |

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  |     | Limits |  | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|-----|--------|--|-----|
|               |             |       |        |      |     |     |      | Qual | Low | High   |  |     |
| PB169904BS    | 1,4-Dioxane | 0.4   | 0.32   | ug/L | 80  |     |      |      | 70  | 130    |  |     |

### Laboratory Control Sample/Laboratory Control Sample Duplicate Summary

SW-846

|                 |                             |                           |                      |
|-----------------|-----------------------------|---------------------------|----------------------|
| <b>SDG No.:</b> | <u>Q3213</u>                | <b>Analytical Method:</b> | <u>8270-Modified</u> |
| <b>Client:</b>  | <u>Tetra Tech NUS, Inc.</u> | <b>DataFile:</b>          | <u>BN038038.D</u>    |

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Limits |      | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|--------|------|-----|
|               |             |       |        |      |     |     |      | Qual | Low    | High |     |
| PB169904BSD   | 1,4-Dioxane | 0.4   | 0.32   | ug/L | 80  | 0   |      |      | 70     | 130  | 20  |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

Client ID

PB169904BL

Lab Name: Alliance

Contract: TETR06

Lab Code: ACE

SDG NO.: Q3213

Lab File ID: BN038023.D

Lab Sample ID: PB169904BL

Instrument ID: BNA\_N

Date Extracted: 09/26/2025

Matrix: (soil/water) Water

Date Analyzed: 10/07/2025

Level: (low/med) LOW

Time Analyzed: 00:08

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 |
|-------------------------|------------------|----------------|------------------|
| PB169904BS              | PB169904BS       | BN038037.D     | 10/07/2025       |
| VPB184-HYD-20250924     | Q3213-02         | BN038028.D     | 10/07/2025       |
| BP-VPB-184-GW-340-342   | Q3213-03         | BN038029.D     | 10/07/2025       |
| BP-VPB-184-GW-380-382   | Q3213-05         | BN038030.D     | 10/07/2025       |
| PB169904BSD             | PB169904BSD      | BN038038.D     | 10/07/2025       |
| BP-VPB-184-DUP-20250923 | Q3213-06         | BN038031.D     | 10/07/2025       |
| BP-VPB-184-GW-420-422   | Q3213-08         | BN038032.D     | 10/07/2025       |
| BP-VPB-184-EB-20250923  | Q3213-10         | BN038033.D     | 10/07/2025       |

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: BN037860.D  
Instrument ID: BNA\_N

Contract: TETR06  
SDG NO.: Q3213  
DFTPP Injection Date: 09/23/2025  
DFTPP Injection Time: 11:33

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.7 ( 1.8 ) 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            | 6.9                  |
| 365 | Greater than 1% of mass 198        | 4.2                  |
| 441 | Present, but less than mass 443    | 72.6                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 17.7 (20.8) 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       | BN037861.D     | 09/23/2025       | 12:13            |
| SSTDICC0.2        | SSTDICC0.2       | BN037862.D     | 09/23/2025       | 12:49            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN037863.D     | 09/23/2025       | 13:25            |
| SSTDICC0.8        | SSTDICC0.8       | BN037864.D     | 09/23/2025       | 14:02            |
| SSTDICC1.6        | SSTDICC1.6       | BN037865.D     | 09/23/2025       | 14:38            |
| SSTDICC3.2        | SSTDICC3.2       | BN037866.D     | 09/23/2025       | 15:15            |
| SSTDICC5.0        | SSTDICC5.0       | BN037867.D     | 09/23/2025       | 15:51            |



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: BN038021.D  
Instrument ID: BNA\_N

Contract: TETR06  
SDG NO.: Q3213  
DFTPP Injection Date: 10/06/2025  
DFTPP Injection Time: 22:13

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.7 ( 1.8 ) 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         | 0.2                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 7                    |
| 365 | Greater than 1% of mass 198        | 3.5                  |
| 441 | Present, but less than mass 443    | 81.7                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 18.7 (21.1) 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       | BN038022.D     | 10/06/2025       | 23:32            |
| PB169904BL              | PB169904BL       | BN038023.D     | 10/07/2025       | 00:08            |
| VPB184-HYD-20250924     | Q3213-02         | BN038028.D     | 10/07/2025       | 03:09            |
| BP-VPB-184-GW-340-342   | Q3213-03         | BN038029.D     | 10/07/2025       | 03:46            |
| BP-VPB-184-GW-380-382   | Q3213-05         | BN038030.D     | 10/07/2025       | 04:22            |
| BP-VPB-184-DUP-20250923 | Q3213-06         | BN038031.D     | 10/07/2025       | 04:58            |
| BP-VPB-184-GW-420-422   | Q3213-08         | BN038032.D     | 10/07/2025       | 05:34            |
| BP-VPB-184-EB-20250923  | Q3213-10         | BN038033.D     | 10/07/2025       | 06:10            |
| PB169904BS              | PB169904BS       | BN038037.D     | 10/07/2025       | 08:35            |
| PB169904BSD             | PB169904BSD      | BN038038.D     | 10/07/2025       | 09:11            |
| SSTDCCC0.4EC            | SSTDCCC0.4       | BN038039.D     | 10/07/2025       | 09:47            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: Alliance

Lab Code: ACE

SDG NO.: Q3213

Client ID : SSTDCCC0.4

Date Analyzed: 10/06/2025

Lab File ID: BN038022.D

Time Analyzed: 23:32

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                | 8262                | 7.804 | 22968               | 10.61  | 12134               | 14.46  |
| UPPER LIMIT                | 16524               | 8.304 | 45936               | 11.105 | 24268               | 14.962 |
| LOWER LIMIT                | 4131                | 7.304 | 11484               | 10.105 | 6067                | 13.962 |
| EPA SAMPLE NO.             |                     |       |                     |        |                     |        |
| 01 PB169904BS              | 9121                | 7.80  | 24908               | 10.61  | 11773               | 14.45  |
| 02 PB169904BSD             | 9176                | 7.80  | 24837               | 10.61  | 12022               | 14.45  |
| 03 VPB184-HYD-20250924     | 9188                | 7.80  | 24871               | 10.61  | 11299               | 14.46  |
| 04 BP-VPB-184-GW-340-342   | 8590                | 7.80  | 24886               | 10.61  | 12953               | 14.45  |
| 05 BP-VPB-184-GW-380-382   | 8865                | 7.80  | 26053               | 10.61  | 14244               | 14.46  |
| 06 BP-VPB-184-DUP-20250923 | 10013               | 7.80  | 28507               | 10.61  | 13798               | 14.45  |
| 07 BP-VPB-184-GW-420-422   | 9243                | 7.80  | 27657               | 10.61  | 15535               | 14.45  |
| 08 BP-VPB-184-EB-20250923  | 9567                | 7.80  | 28389               | 10.61  | 15544               | 14.46  |
| 09 PB169904BL              | 7850                | 7.80  | 20745               | 10.61  | 9107                | 14.46  |

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.: Q3213

Client ID: SSTDCCC0.4

Date Analyzed: 10/06/2025

Lab File ID: BN038022.D

Time Analyzed: 23:32

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                | 22733               | 17.21 | 13562               | 21.384 | 10530               | 23.703 |
| UPPER LIMIT                | 45466               | 17.71 | 27124               | 21.884 | 21060               | 24.203 |
| LOWER LIMIT                | 11366.5             | 16.71 | 6781                | 20.884 | 5265                | 23.203 |
| EPA SAMPLE NO.             |                     |       |                     |        |                     |        |
| 01 PB169904BS              | 20442               | 17.21 | 10195               | 21.39  | 9225                | 23.71  |
| 02 PB169904BSD             | 21952               | 17.21 | 11724               | 21.39  | 9473                | 23.71  |
| 03 VPB184-HYD-20250924     | 19333               | 17.21 | 14413               | 21.39  | 10609               | 23.71  |
| 04 BP-VPB-184-GW-340-342   | 23191               | 17.21 | 14461               | 21.39  | 12966               | 23.71  |
| 05 BP-VPB-184-GW-380-382   | 27982               | 17.21 | 20322               | 21.38  | 15136               | 23.71  |
| 06 BP-VPB-184-DUP-20250923 | 22690               | 17.21 | 16816               | 21.39  | 17577               | 23.71  |
| 07 BP-VPB-184-GW-420-422   | 29744               | 17.20 | 17950               | 21.38  | 14042               | 23.70  |
| 08 BP-VPB-184-EB-20250923  | 28505               | 17.21 | 16926               | 21.39  | 14124               | 23.71  |
| 09 PB169904BL              | 15264               | 17.21 | 8024                | 21.38  | 7902                | 23.71  |

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 09/24/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 09/25/25       |
| Client Sample ID:  | VPB184-HYD-20250924           | SDG No.:        | Q3213          |
| Lab Sample ID:     | Q3213-02                      | 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 |
| BN038028.D        | 1         | 09/26/25 13:15 | 10/07/25 03:09 | PB169904      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.20  | U         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.014 | *         | 30 - 150 |      | 4%         | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.061 | *         | 30 - 150 |      | 15%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 55 - 111 |      | 89%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.37  |           | 53 - 106 |      | 93%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.52  |           | 58 - 132 |      | 129%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 9190  | 7.804     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 24900 | 10.605    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 11300 | 14.462    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 19300 | 17.211    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 14400 | 21.393    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 10600 | 23.709    |          |      |            |          |

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\BN100625\  
Data File : BN038028.D  
Acq On : 07 Oct 2025 03:09  
Operator : RC/JU  
Sample : Q3213-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
VPB184-HYD-20250924

Quant Time: Oct 07 04:17:12 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration

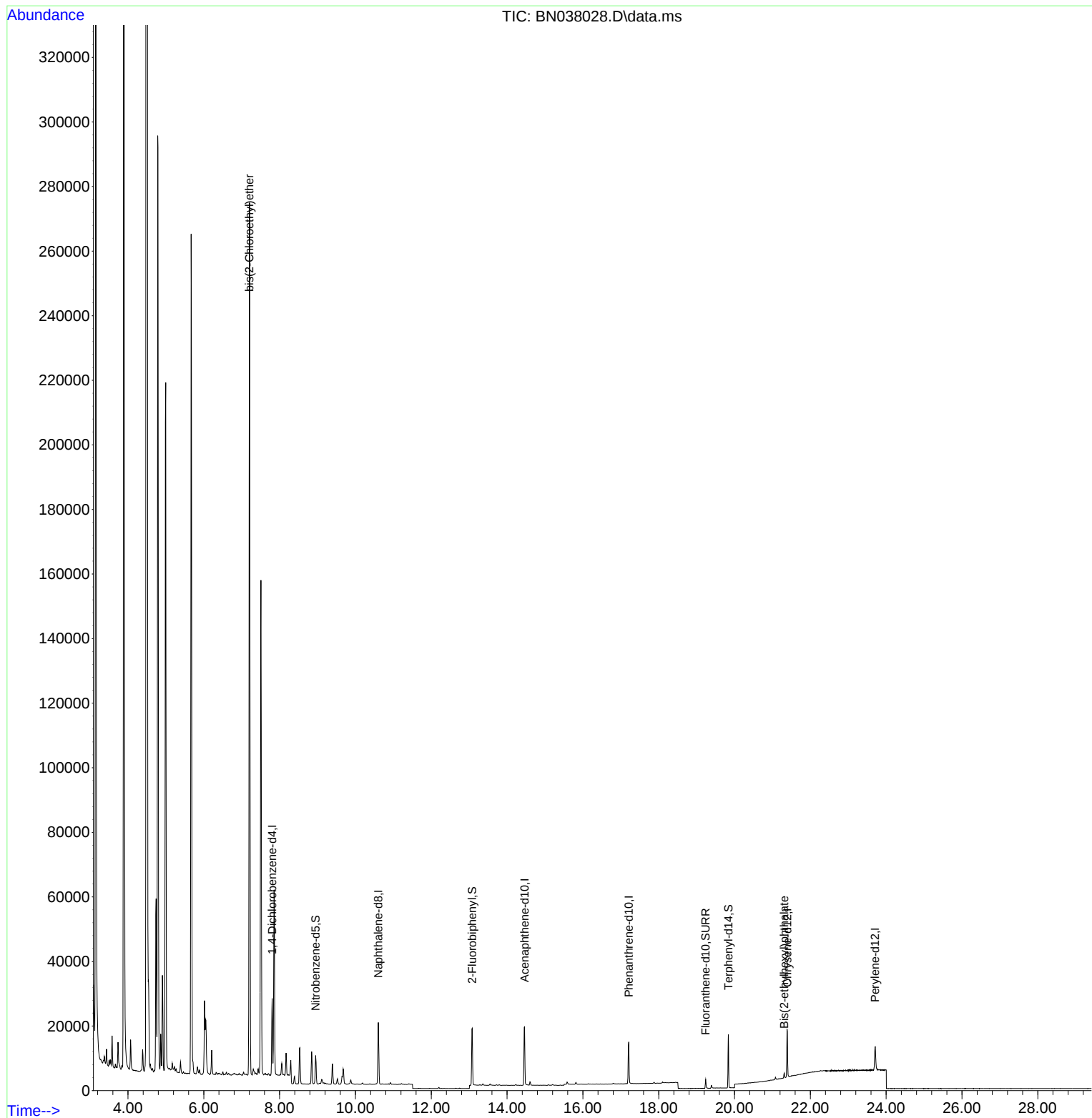
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.804  | 152  | 9188     | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8             | 10.605 | 136  | 24871    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.462 | 164  | 11299    | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.211 | 188  | 19333    | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.393 | 240  | 14413    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.709 | 264  | 10609    | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.377  | 112  | 40       | 0.002 | ng    | 0.00     |
| 5) Phenol-d6                  | 0.000  | 99   | 0d       | 0.000 | ng    |          |
| 8) Nitrobenzene-d5            | 8.950  | 82   | 6770     | 0.357 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 12.202 | 152  | 492      | 0.014 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.944 | 330  | 41       | 0.010 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 13.083 | 172  | 17146    | 0.371 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.239 | 212  | 2954     | 0.061 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.838 | 244  | 14779    | 0.515 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 6) bis(2-Chloroethyl)ether    | 7.204  | 93   | 174897   | 6.839 | ng    | # 44     |
| 34) Bis(2-ethylhexyl)phtha... | 21.313 | 149  | 1712     | 0.086 | ng    | 93       |

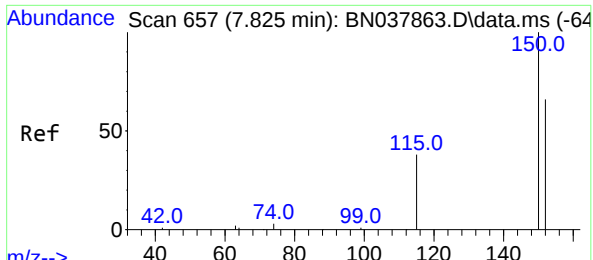
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038028.D  
Acq On : 07 Oct 2025 03:09  
Operator : RC/JU  
Sample : Q3213-02  
Misc :  
ALS Vial : 28 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
VPB184-HYD-20250924

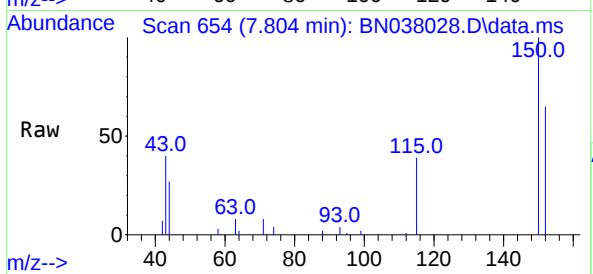
Quant Time: Oct 07 04:17:12 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration



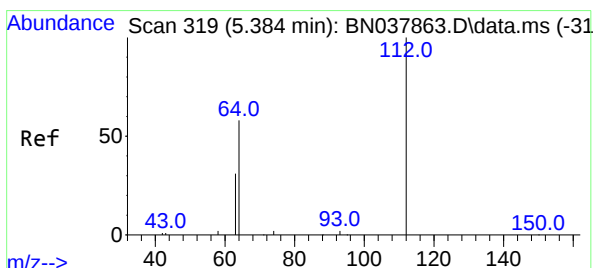
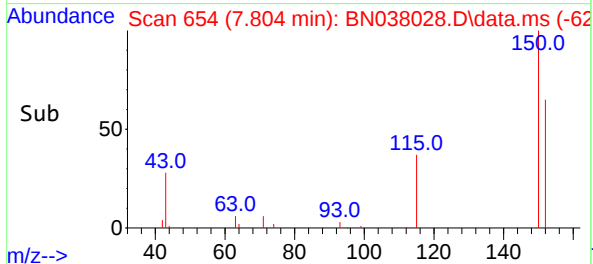
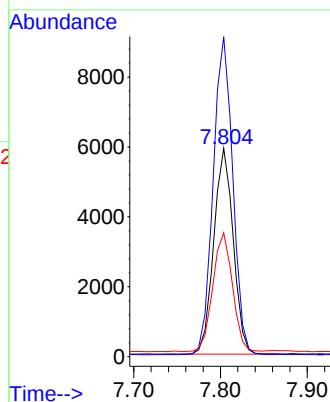


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.804 min Scan# 61  
Delta R.T. -0.021 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

Instrument :  
BNA\_N  
ClientSampleId :  
VPB184-HYD-20250924

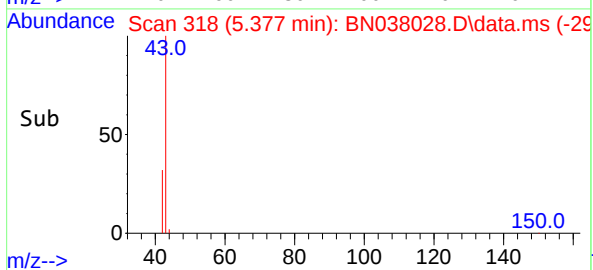
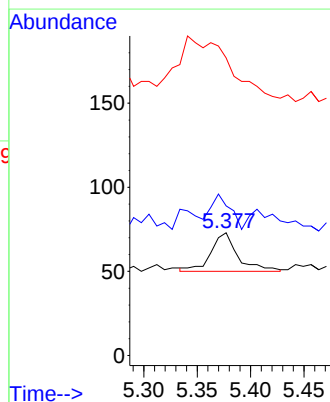
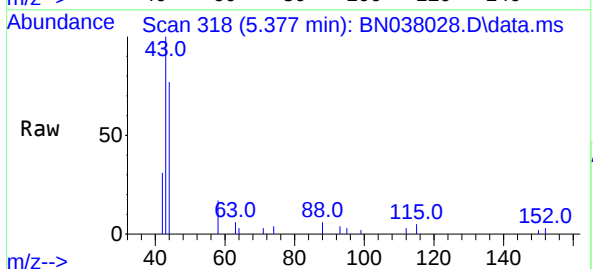


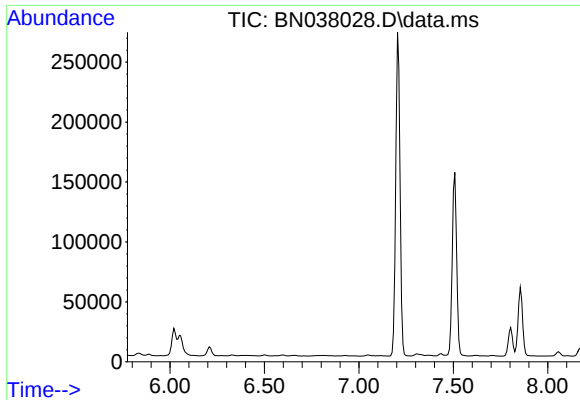
Tgt Ion:152 Resp: 9188  
Ion Ratio Lower Upper  
152 100  
150 153.7 121.0 181.4  
115 59.5 47.4 71.0



#4  
2-Fluorophenol  
Concen: 0.002 ng  
RT: 5.377 min Scan# 318  
Delta R.T. -0.007 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

Tgt Ion:112 Resp: 40  
Ion Ratio Lower Upper  
112 100  
64 65.0 44.6 66.8  
63 0.0 24.9 37.3#

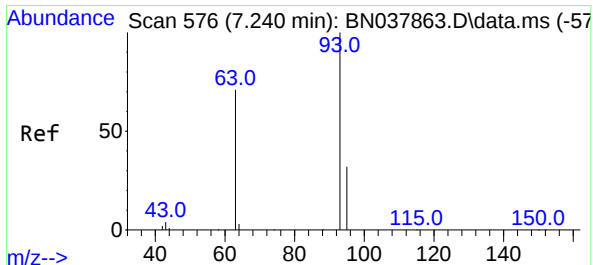
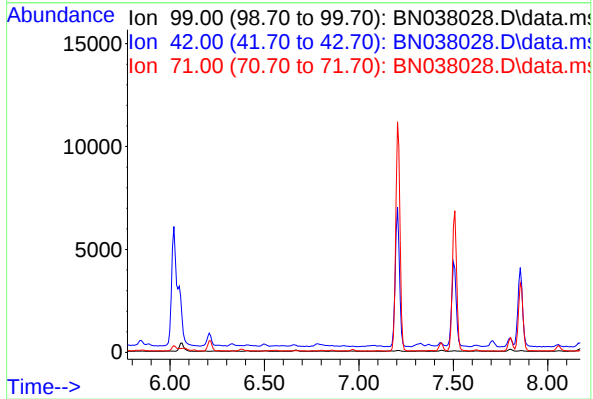




#5  
Phenol-d6  
Concen: 0.000 ng  
Expected RT: 6.97 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

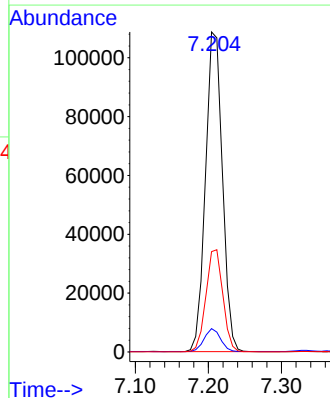
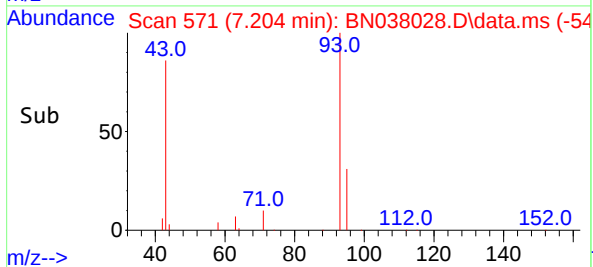
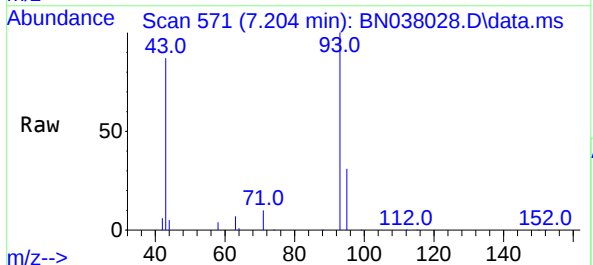
Instrument :  
BNA\_N  
ClientSampleId :  
VPB184-HYD-20250924

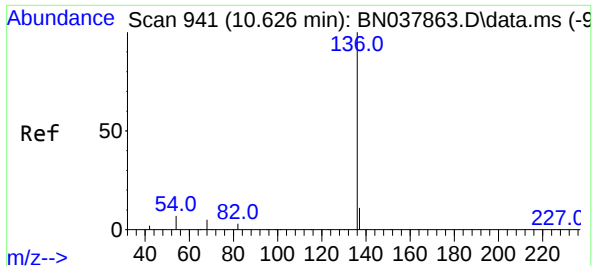
Tgt Ion: 99  
Sig Exp Ratio  
99 100  
42 21.5  
71 34.1



#6  
bis(2-Chloroethyl)ether  
Concen: 6.839 ng  
RT: 7.204 min Scan# 571  
Delta R.T. -0.036 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

Tgt Ion: 93 Resp: 174897  
Ion Ratio Lower Upper  
93 100  
63 6.9 60.1 90.1#  
95 31.9 25.4 38.2

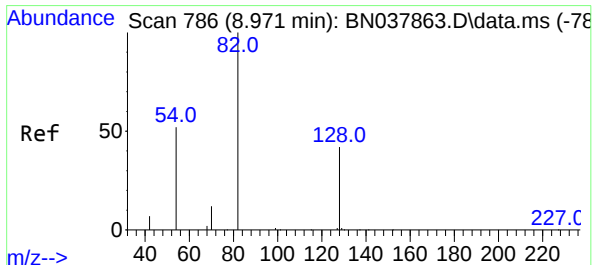
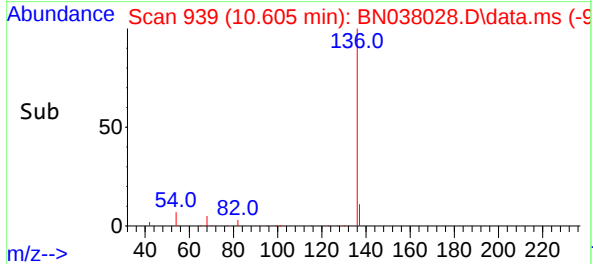
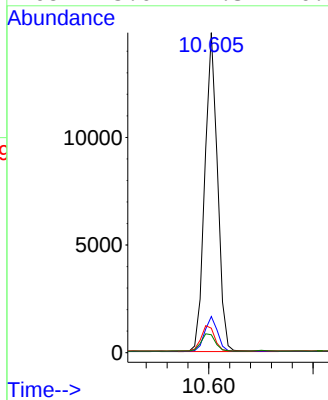
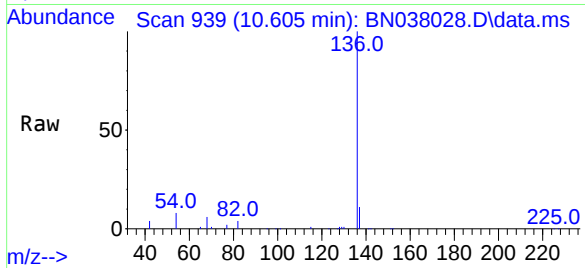




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.605 min Scan# 91  
Delta R.T. -0.021 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

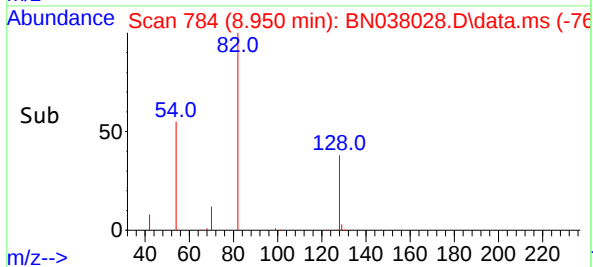
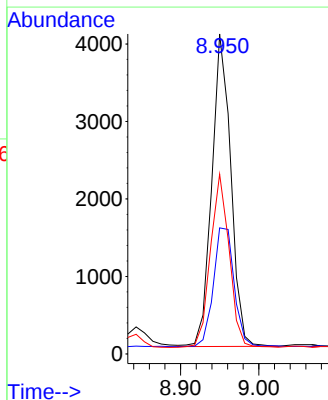
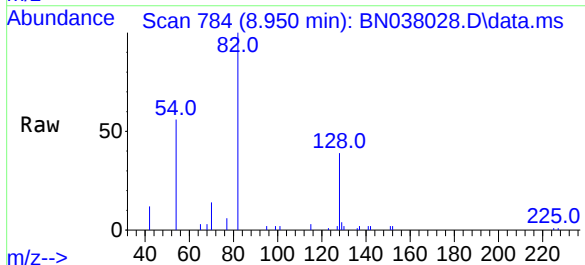
Instrument :  
BNA\_N  
ClientSampleId :  
VPB184-HYD-20250924

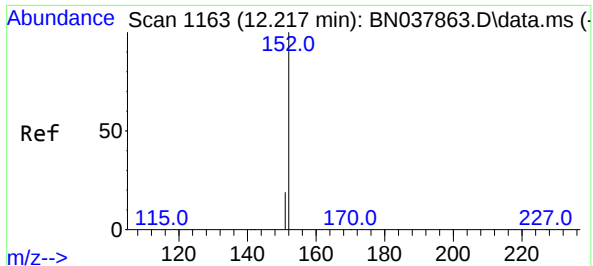
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 24871 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 9.0   | 13.4  |
| 54       | 7.6   | 5.8   | 8.8   |
| 68       | 5.6   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.357 ng  
RT: 8.950 min Scan# 784  
Delta R.T. -0.021 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 6770  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 39.4  | 34.8  | 52.2  |
| 54       | 56.2  | 42.2  | 63.2  |

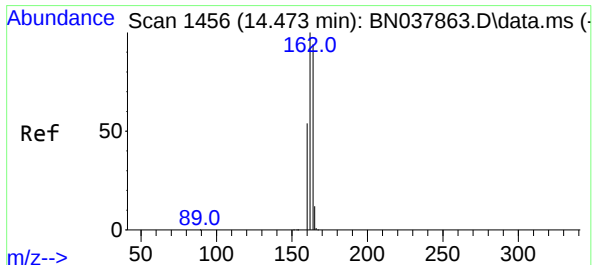
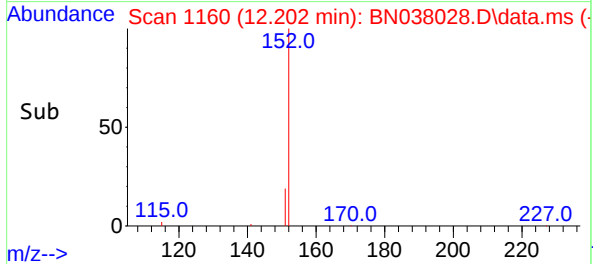
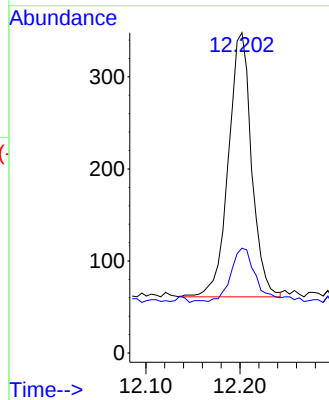
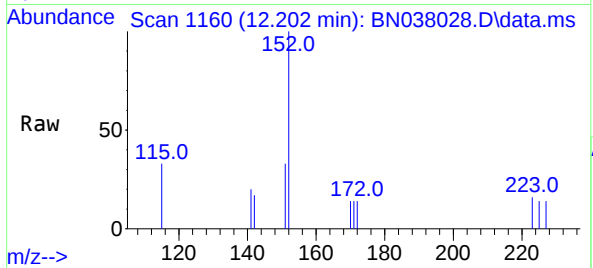




#11  
2-Methylnaphthalene-d10  
Concen: 0.014 ng  
RT: 12.202 min Scan# 1160  
Delta R.T. -0.015 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

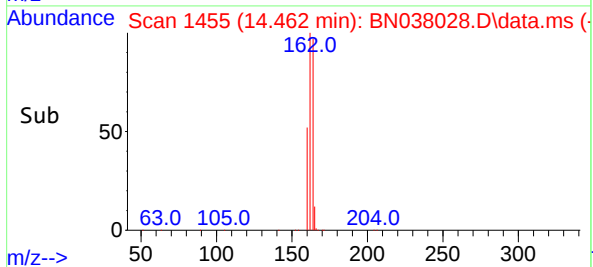
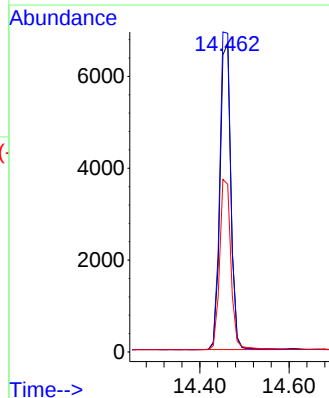
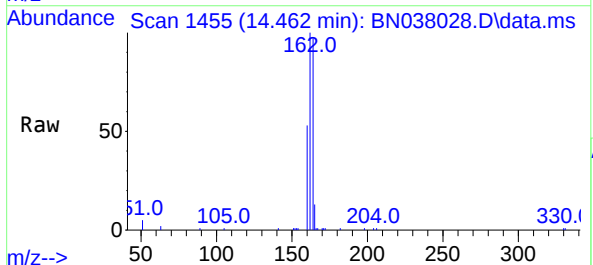
Instrument :  
BNA\_N  
ClientSampleId :  
VPB184-HYD-20250924

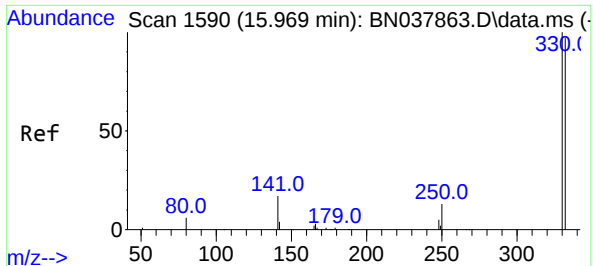
Tgt Ion:152 Resp: 492  
Ion Ratio Lower Upper  
152 100  
151 21.3 17.4 26.2



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.462 min Scan# 1455  
Delta R.T. -0.011 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

Tgt Ion:164 Resp: 11299  
Ion Ratio Lower Upper  
164 100  
162 103.3 84.8 127.2  
160 54.3 46.1 69.1





#14

2,4,6-Tribromophenol

Concen: 0.010 ng

RT: 15.944 min Scan# 1

Delta R.T. -0.025 min

Lab File: BN038028.D

Acq: 07 Oct 2025 03:09

Instrument :

BNA\_N

ClientSampleId :

VPB184-HYD-20250924

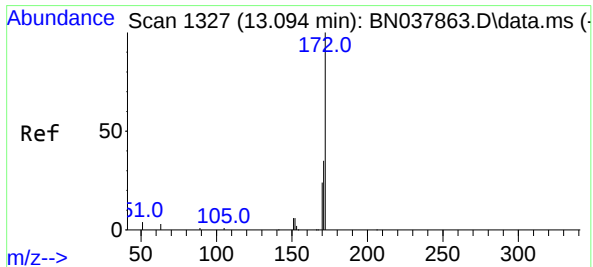
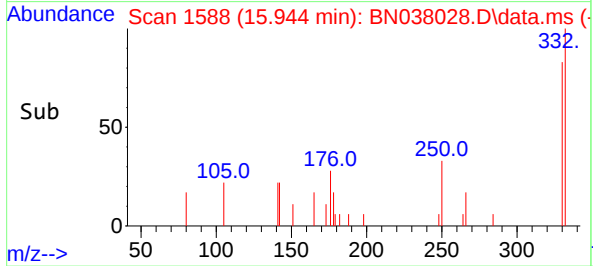
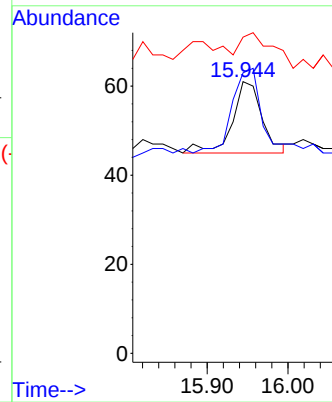
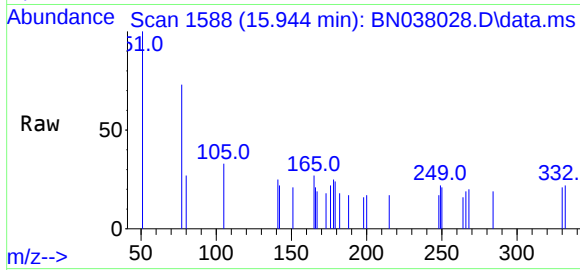
Tgt Ion:330 Resp: 41

Ion Ratio Lower Upper

330 100

332 124.4 77.2 115.8#

141 56.1 37.2 55.8#



#15

2-Fluorobiphenyl

Concen: 0.371 ng

RT: 13.083 min Scan# 1326

Delta R.T. -0.011 min

Lab File: BN038028.D

Acq: 07 Oct 2025 03:09

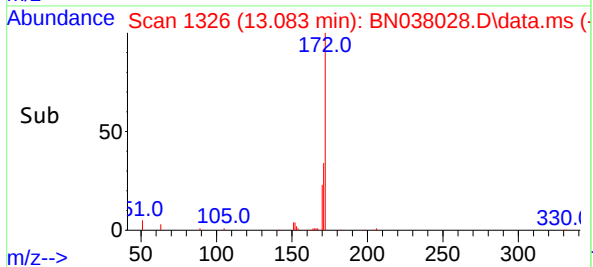
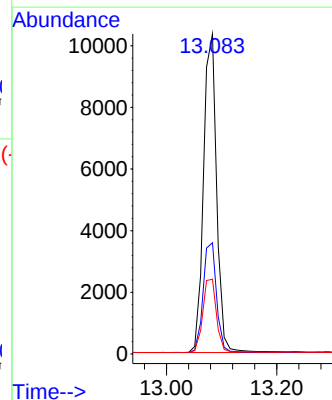
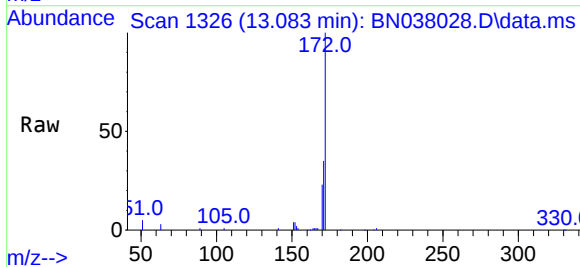
Tgt Ion:172 Resp: 17146

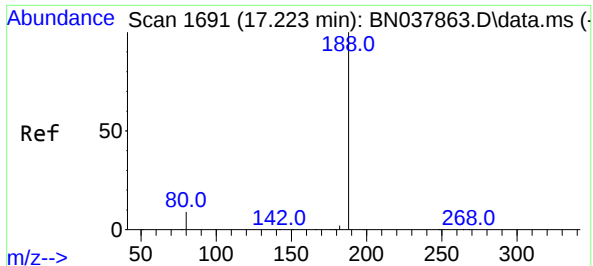
Ion Ratio Lower Upper

172 100

171 34.7 28.6 43.0

170 23.4 19.7 29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN038028.D

Acq: 07 Oct 2025 03:09

Instrument :

BNA\_N

ClientSampleId :

VPB184-HYD-20250924

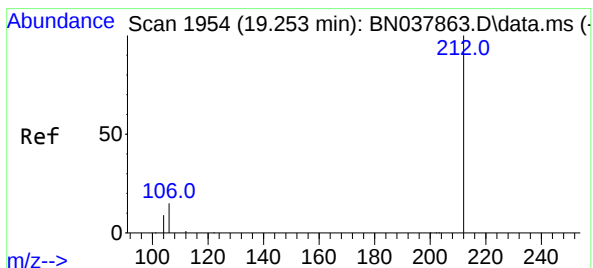
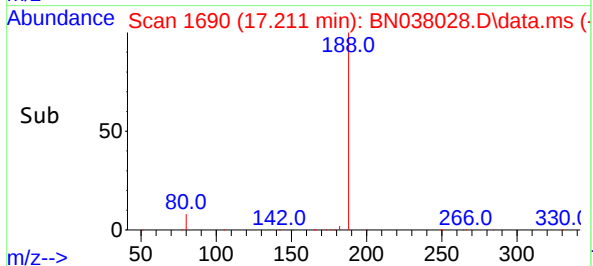
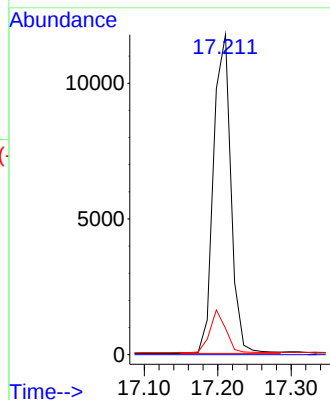
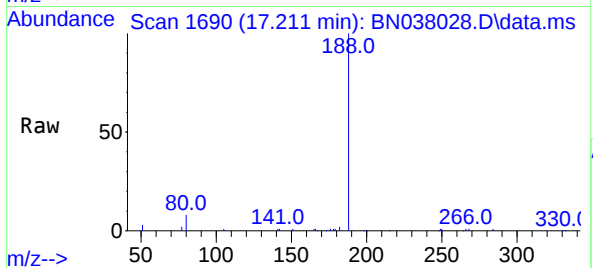
Tgt Ion:188 Resp: 19333

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 7.6 11.4



#27

Fluoranthene-d10

Concen: 0.061 ng

RT: 19.239 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038028.D

Acq: 07 Oct 2025 03:09

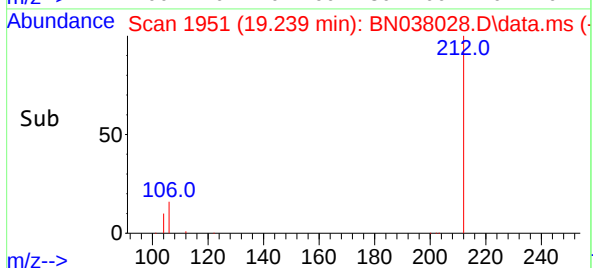
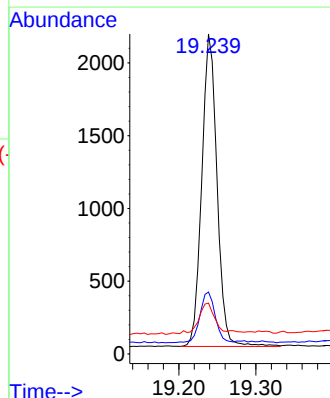
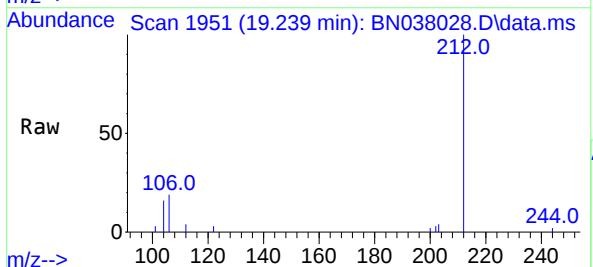
Tgt Ion:212 Resp: 2954

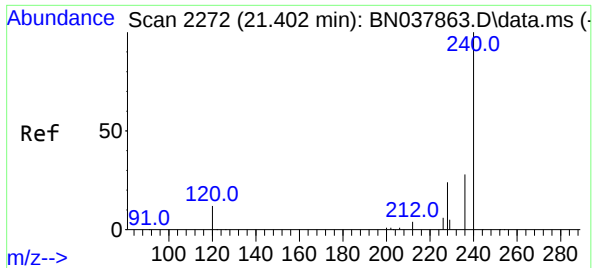
Ion Ratio Lower Upper

212 100

106 16.0 12.6 19.0

104 10.9 7.4 11.0

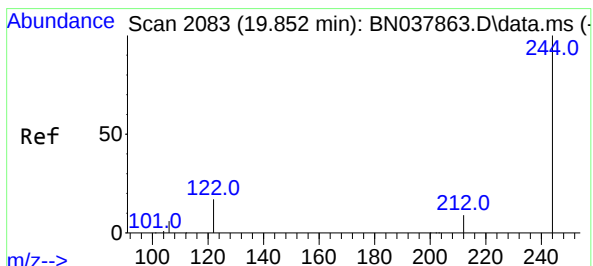
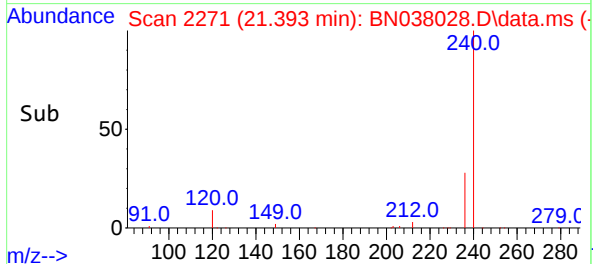
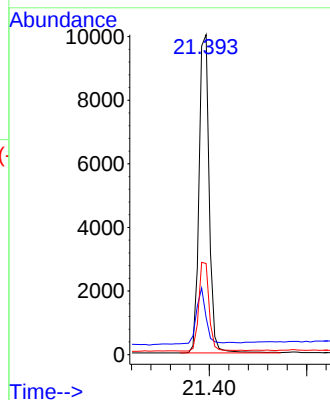
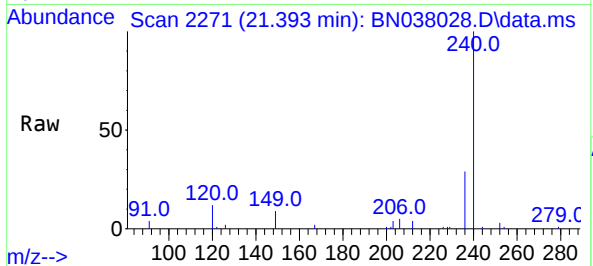




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.393 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

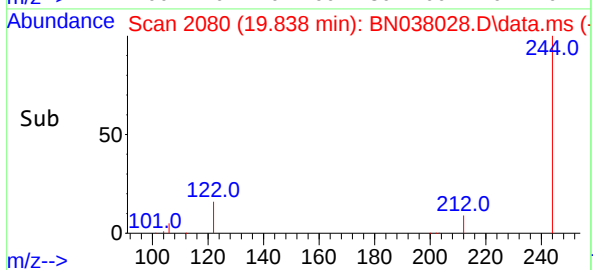
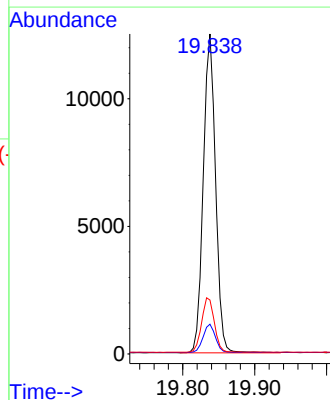
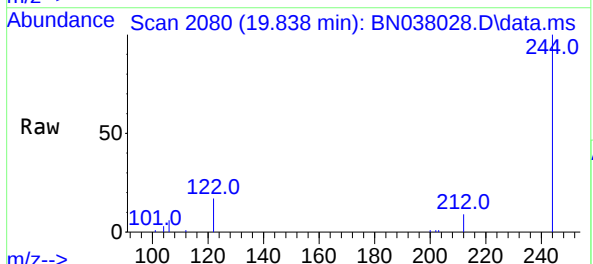
Instrument :  
BNA\_N  
ClientSampleId :  
VPB184-HYD-20250924

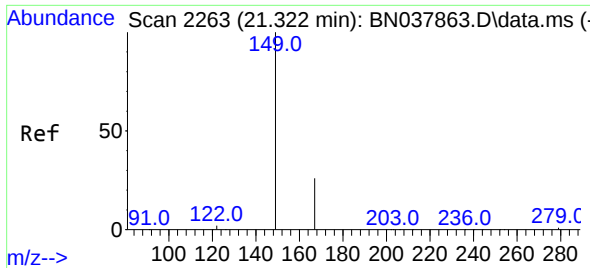
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.6  | 11.4  | 17.2  |
| 236     | 28.5  | 23.0  | 34.6  |



#31  
Terphenyl-d14  
Concen: 0.515 ng  
RT: 19.838 min Scan# 2080  
Delta R.T. -0.014 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.3   | 7.6   | 11.4  |
| 122     | 16.9  | 13.9  | 20.9  |

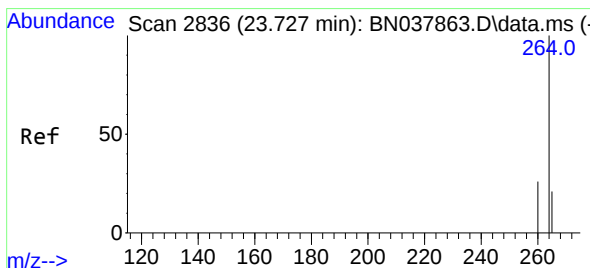
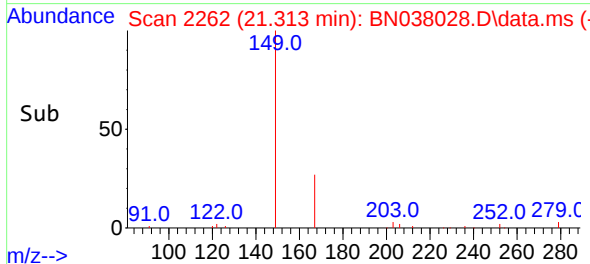
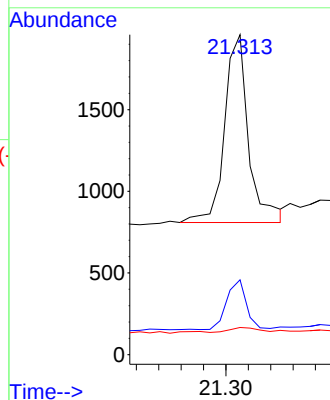
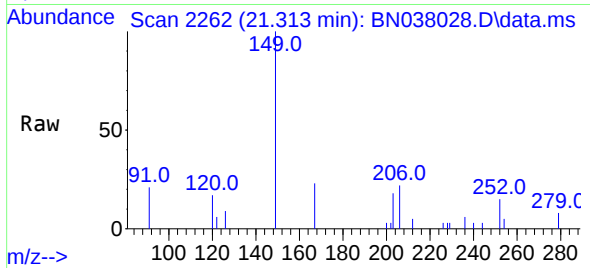




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.086 ng  
RT: 21.313 min Scan# 2130  
Delta R.T. -0.009 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

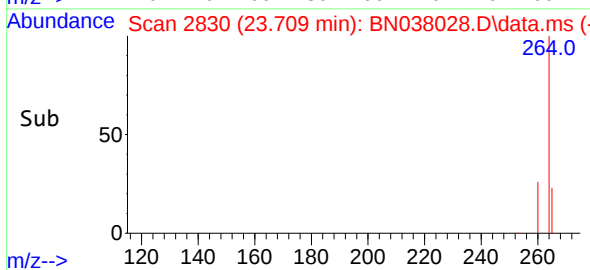
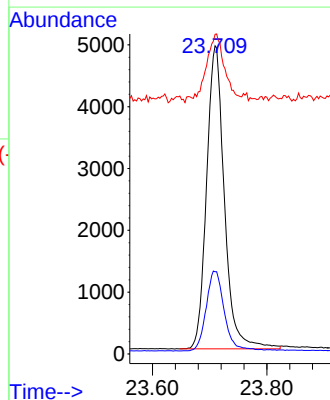
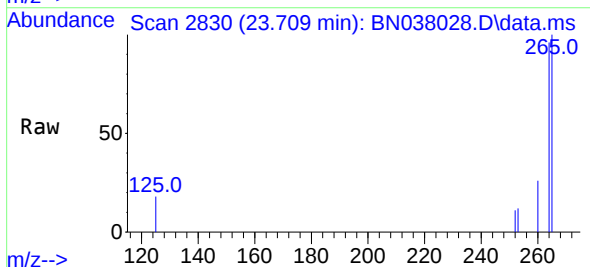
Instrument :  
BNA\_N  
ClientSampleId :  
VPB184-HYD-20250924

Tgt Ion:149 Resp: 1712  
Ion Ratio Lower Upper  
149 100  
167 21.7 20.4 30.6  
279 3.1 2.4 3.6



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.709 min Scan# 2830  
Delta R.T. -0.018 min  
Lab File: BN038028.D  
Acq: 07 Oct 2025 03:09

Tgt Ion:264 Resp: 10609  
Ion Ratio Lower Upper  
264 100  
260 26.7 21.5 32.3  
265 103.7 53.8 80.6#



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 09/23/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 09/25/25       |
| Client Sample ID:  | BP-VPB-184-GW-340-342         | SDG No.:        | Q3213          |
| Lab Sample ID:     | Q3213-03                      | 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 |
| BN038029.D        | 1         | 09/26/25 13:15 | 10/07/25 03:46 | PB169904      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.27  |           | 0.070    | 0.21 | 0.21       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.28  |           | 30 - 150 |      | 70%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.33  |           | 30 - 150 |      | 81%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.33  |           | 55 - 111 |      | 83%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.33  |           | 53 - 106 |      | 83%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.50  |           | 58 - 132 |      | 125%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 8590  | 7.804     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 24900 | 10.605    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 13000 | 14.452    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 23200 | 17.211    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 14500 | 21.393    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 13000 | 23.709    |          |      |            |          |

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\BN100625\  
Data File : BN038029.D  
Acq On : 07 Oct 2025 03:46  
Operator : RC/JU  
Sample : Q3213-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-340-342

Quant Time: Oct 07 04:17:31 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration

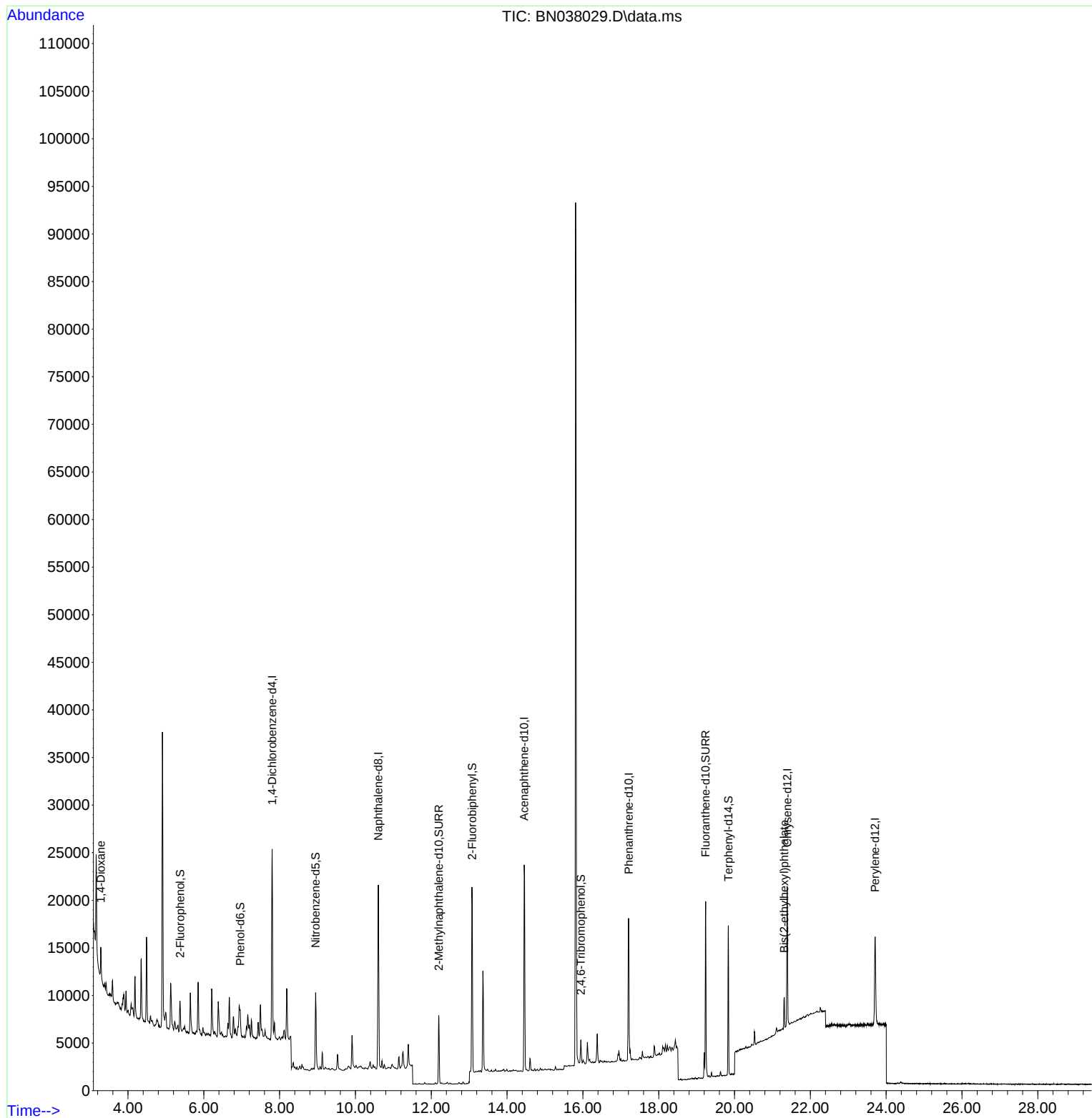
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.804  | 152  | 8590     | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8             | 10.605 | 136  | 24886    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.452 | 164  | 12953    | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 17.211 | 188  | 23191    | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.393 | 240  | 14461    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.709 | 264  | 12966    | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.377  | 112  | 2447     | 0.125 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.959  | 99   | 1999     | 0.078 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.950  | 82   | 6281     | 0.331 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 12.197 | 152  | 9642     | 0.279 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.944 | 330  | 1361     | 0.277 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 13.083 | 172  | 17483    | 0.330 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.239 | 212  | 18968    | 0.325 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.838 | 244  | 14430    | 0.501 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.283  | 88   | 2273     | 0.261 | ng    | # 79     |
| 34) Bis(2-ethylhexyl)phtha... | 21.313 | 149  | 3537     | 0.177 | ng    | 97       |

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

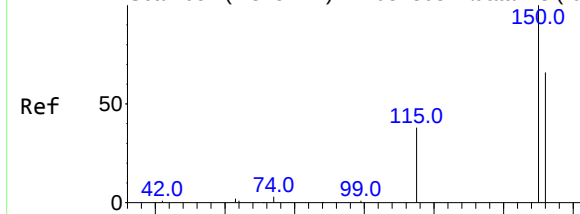
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038029.D  
Acq On : 07 Oct 2025 03:46  
Operator : RC/JU  
Sample : Q3213-03  
Misc :  
ALS Vial : 29 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-340-342

Quant Time: Oct 07 04:17:31 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

Instrument :

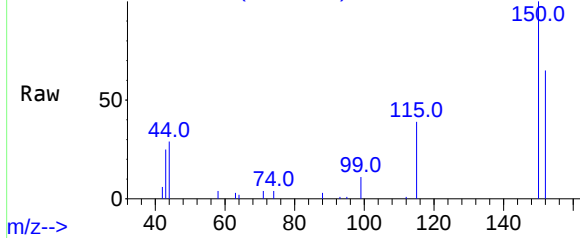
BNA\_N

ClientSampleId :

BP-VPB-184-GW-340-342

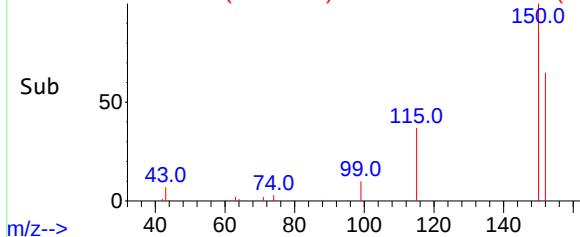
m/z--&gt;

Abundance Scan 654 (7.804 min): BN038029.D\data.ms



m/z--&gt;

Abundance Scan 654 (7.804 min): BN038029.D\data.ms (-62



m/z--&gt;

Tgt Ion:152 Resp: 8590

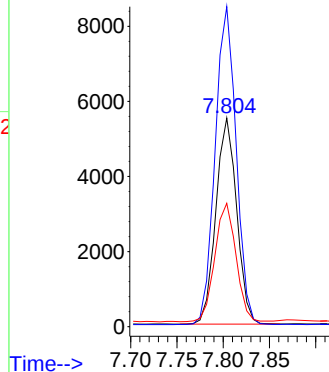
Ion Ratio Lower Upper

152 100

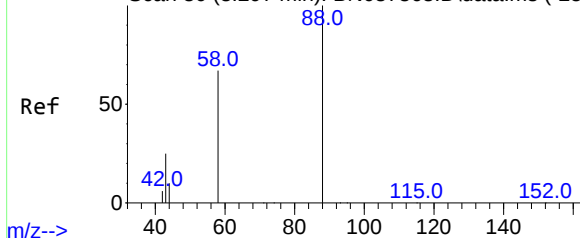
150 153.4 121.0 181.4

115 59.1 47.4 71.0

Abundance

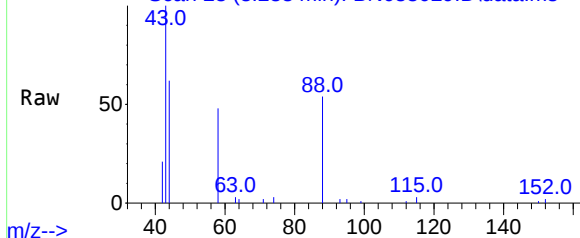


Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



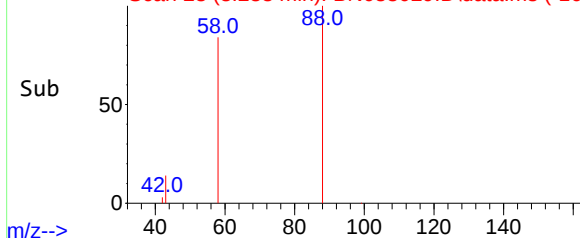
m/z--&gt;

Abundance Scan 28 (3.283 min): BN038029.D\data.ms



m/z--&gt;

Abundance Scan 28 (3.283 min): BN038029.D\data.ms (-16)



m/z--&gt;

#2

1,4-Dioxane

Concen: 0.261 ng

RT: 3.283 min Scan# 28

Delta R.T. -0.015 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

Tgt Ion: 88 Resp: 2273

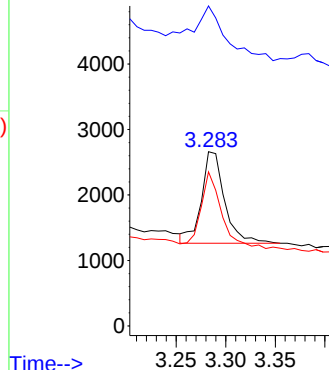
Ion Ratio Lower Upper

88 100

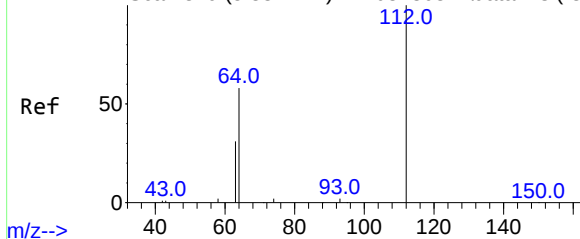
43 60.6 26.6 39.8#

58 80.5 58.9 88.3

Abundance

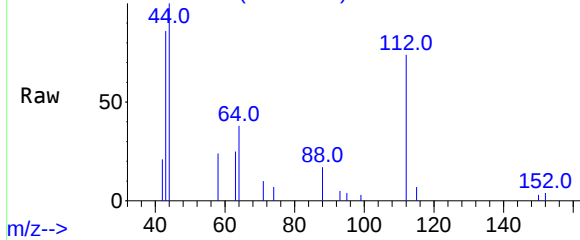


Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31



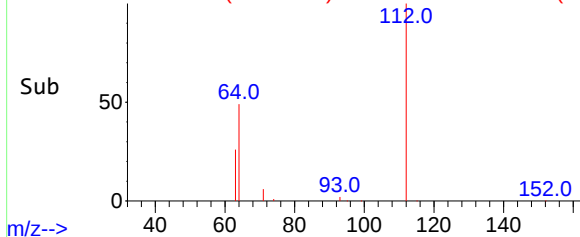
m/z--&gt;

Abundance Scan 318 (5.377 min): BN038029.D\data.ms



m/z--&gt;

Abundance Scan 318 (5.377 min): BN038029.D\data.ms (-29



m/z--&gt;

#4

2-Fluorophenol

Concen: 0.125 ng

RT: 5.377 min Scan# 31

Delta R.T. -0.007 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-184-GW-340-342

Tgt Ion:112 Resp: 2447

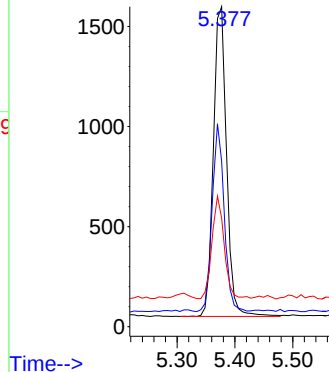
Ion Ratio Lower Upper

112 100

64 55.6 44.6 66.8

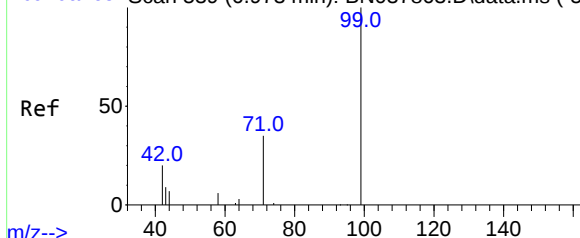
63 30.7 24.9 37.3

Abundance



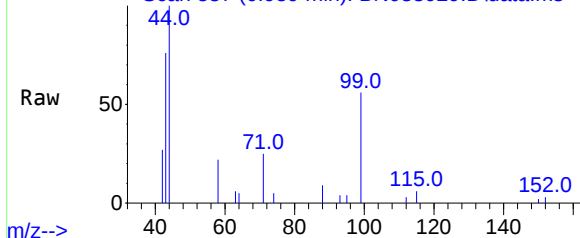
Time--&gt;

Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



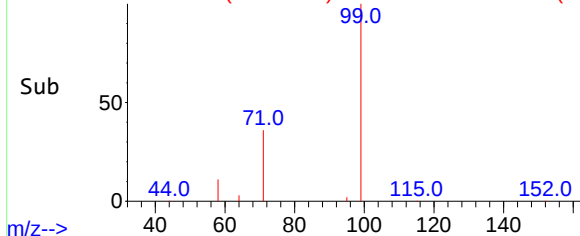
m/z--&gt;

Abundance Scan 537 (6.959 min): BN038029.D\data.ms



m/z--&gt;

Abundance Scan 537 (6.959 min): BN038029.D\data.ms (-51



m/z--&gt;

#5

Phenol-d6

Concen: 0.078 ng

RT: 6.959 min Scan# 537

Delta R.T. -0.015 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

Tgt Ion: 99 Resp: 1999

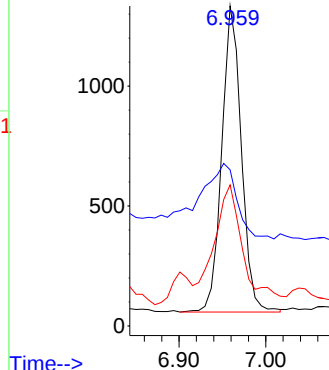
Ion Ratio Lower Upper

99 100

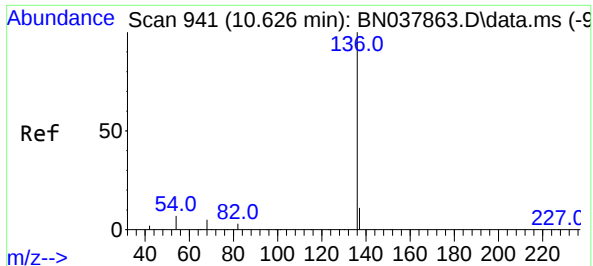
42 49.9 17.2 25.8#

71 55.4 27.3 40.9#

Abundance



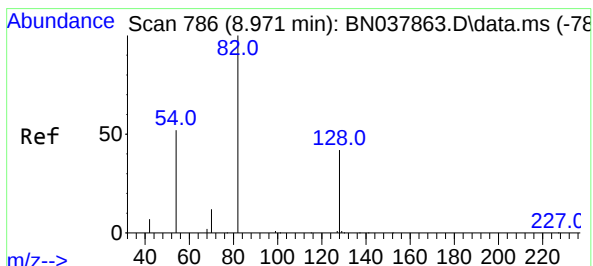
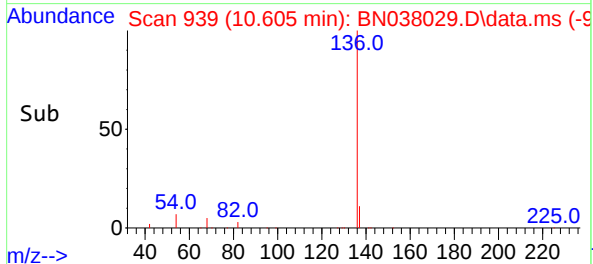
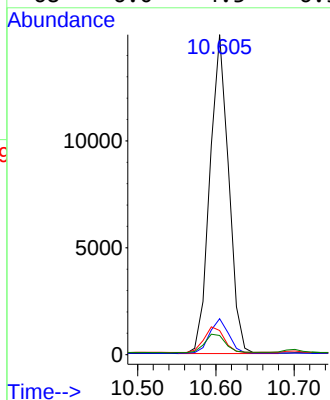
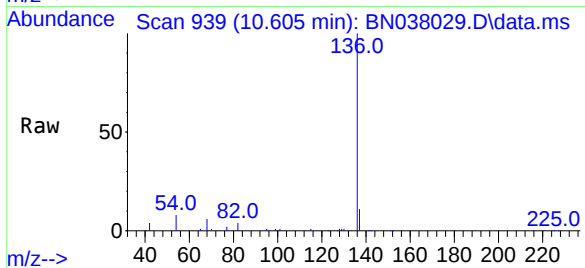
Time--&gt;



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.605 min Scan# 91  
Delta R.T. -0.021 min  
Lab File: BN038029.D  
Acq: 07 Oct 2025 03:46

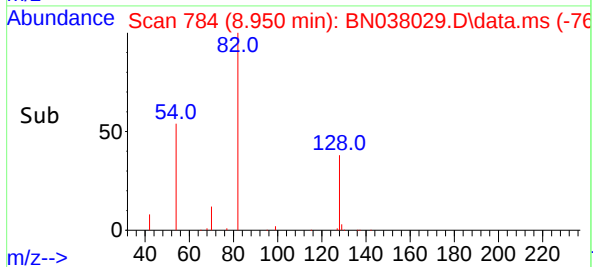
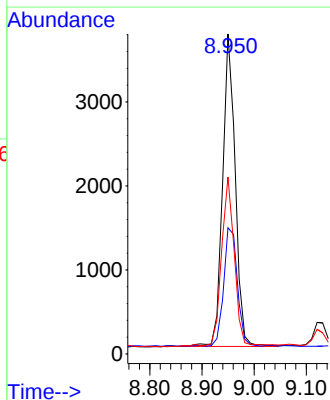
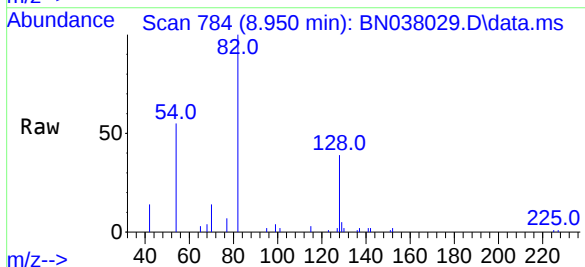
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-340-342

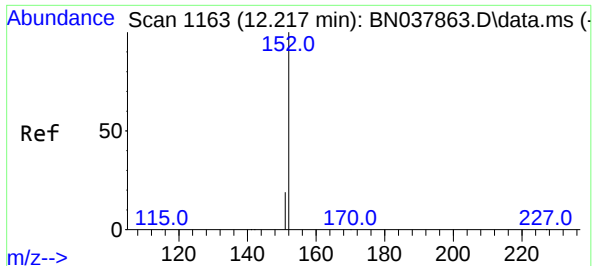
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 24886 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 9.0   | 13.4  |
| 54       | 7.6   | 5.8   | 8.8   |
| 68       | 6.0   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.331 ng  
RT: 8.950 min Scan# 784  
Delta R.T. -0.021 min  
Lab File: BN038029.D  
Acq: 07 Oct 2025 03:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 6281  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 39.5  | 34.8  | 52.2  |
| 54       | 55.3  | 42.2  | 63.2  |

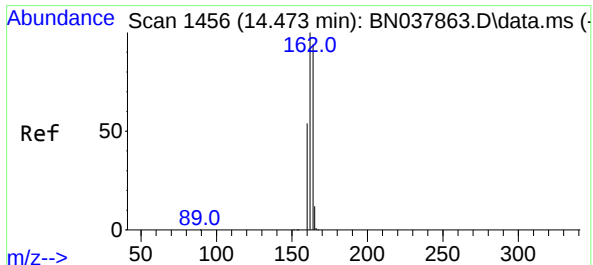
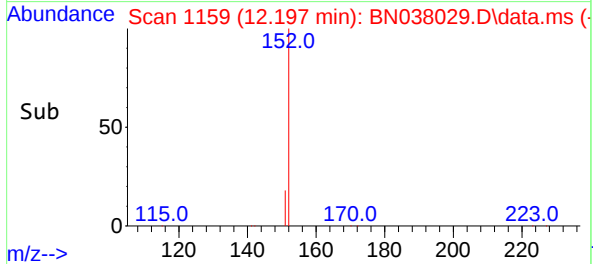
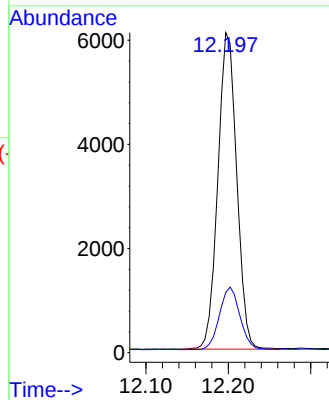
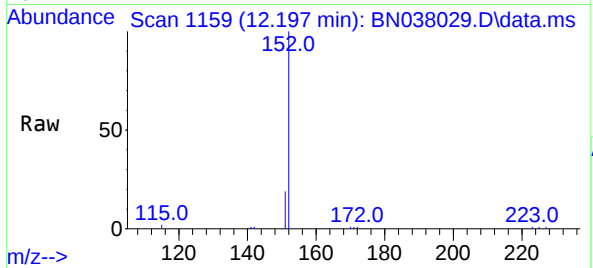




#11  
2-Methylnaphthalene-d10  
Concen: 0.279 ng  
RT: 12.197 min Scan# 11  
Delta R.T. -0.020 min  
Lab File: BN038029.D  
Acq: 07 Oct 2025 03:46

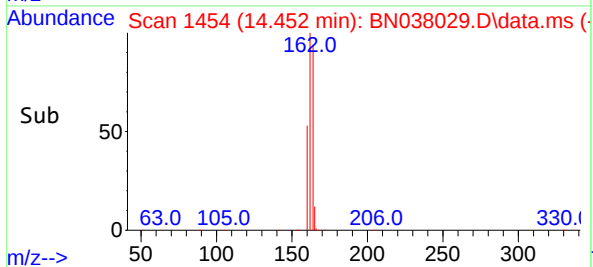
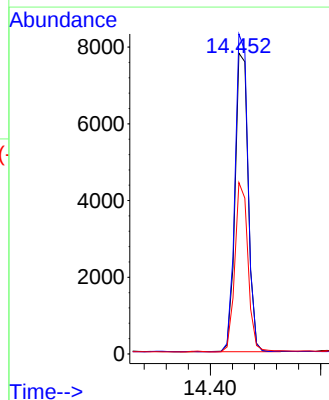
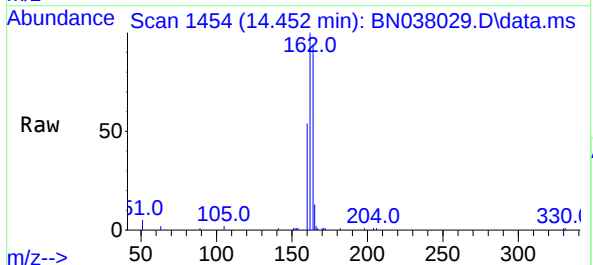
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-340-342

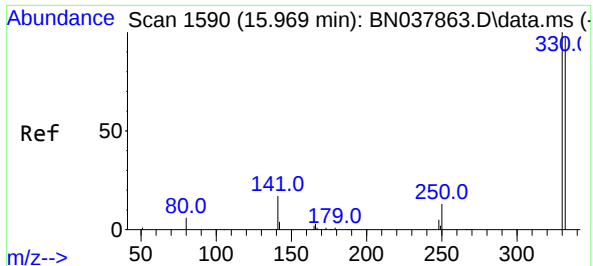
Tgt Ion:152 Resp: 9642  
Ion Ratio Lower Upper  
152 100  
151 21.4 17.4 26.2



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.452 min Scan# 1454  
Delta R.T. -0.021 min  
Lab File: BN038029.D  
Acq: 07 Oct 2025 03:46

Tgt Ion:164 Resp: 12953  
Ion Ratio Lower Upper  
164 100  
162 106.4 84.8 127.2  
160 56.9 46.1 69.1

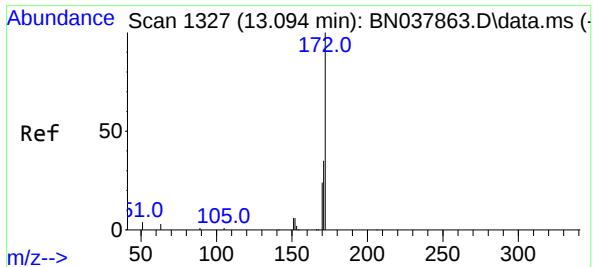
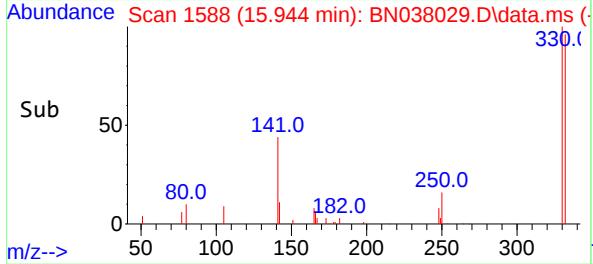
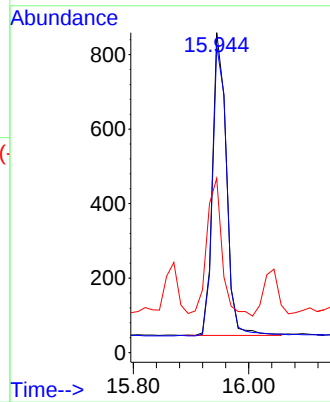
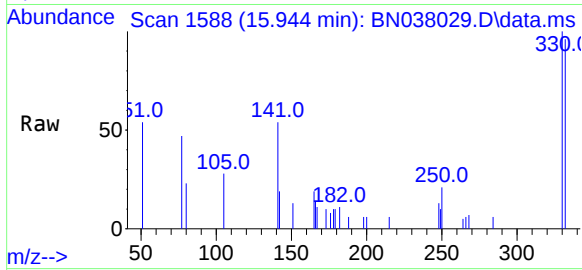




#14  
2,4,6-Tribromophenol  
Concen: 0.277 ng  
RT: 15.944 min Scan# 1588  
Delta R.T. -0.025 min  
Lab File: BN038029.D  
Acq: 07 Oct 2025 03:46

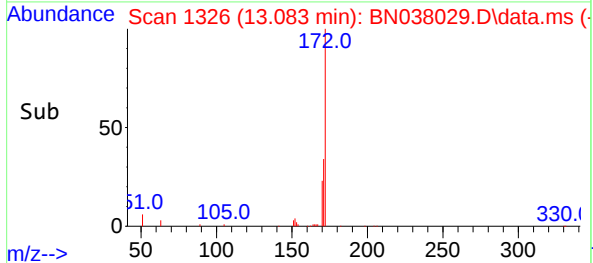
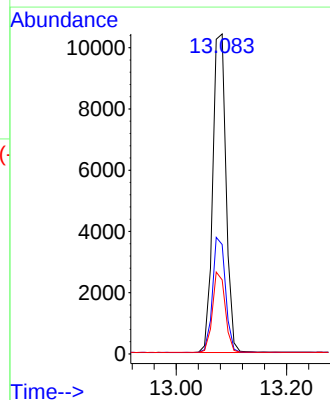
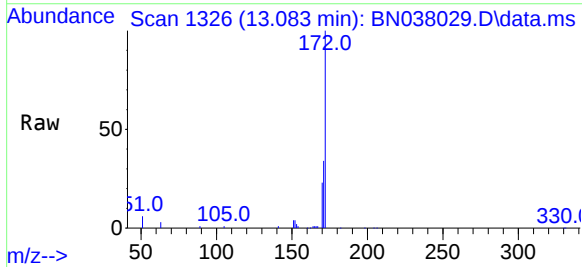
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-340-342

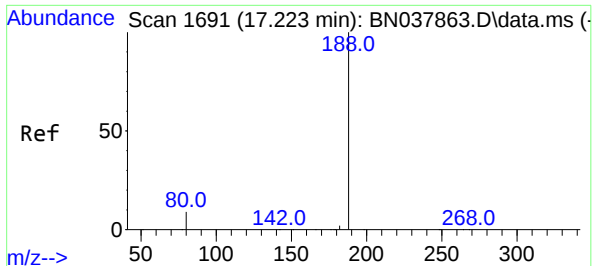
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 1361  |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 98.7  | 77.2  | 115.8 |
| 141      | 49.9  | 37.2  | 55.8  |



#15  
2-Fluorobiphenyl  
Concen: 0.330 ng  
RT: 13.083 min Scan# 1326  
Delta R.T. -0.011 min  
Lab File: BN038029.D  
Acq: 07 Oct 2025 03:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 17483 |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 34.2  | 28.6  | 43.0  |
| 170      | 23.2  | 19.7  | 29.5  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-184-GW-340-342

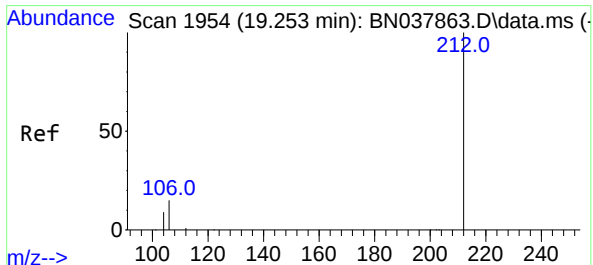
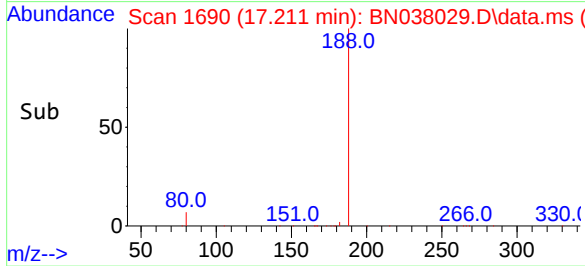
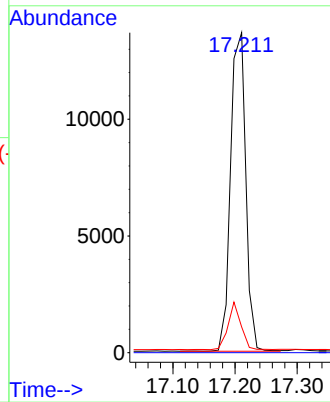
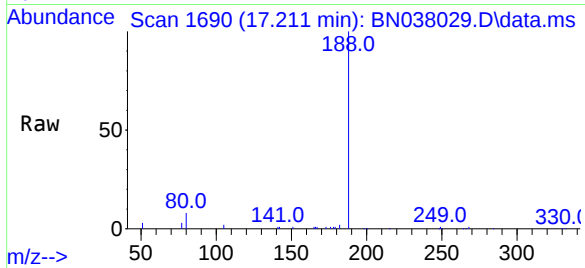
Tgt Ion:188 Resp: 23191

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.0 7.6 11.4



#27

Fluoranthene-d10

Concen: 0.325 ng

RT: 19.239 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038029.D

Acq: 07 Oct 2025 03:46

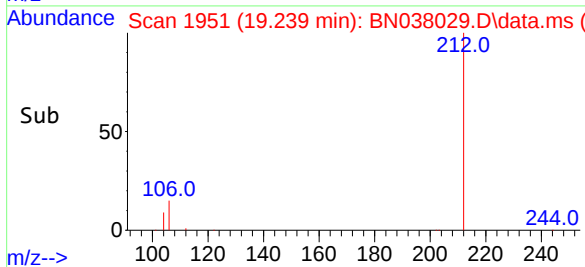
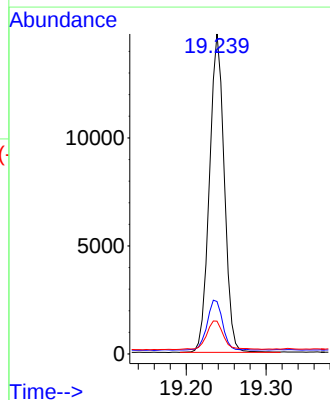
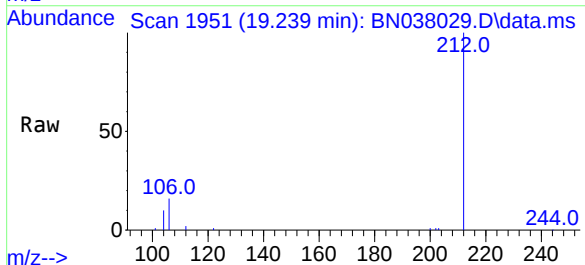
Tgt Ion:212 Resp: 18968

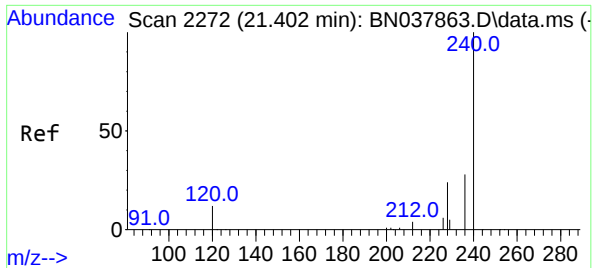
Ion Ratio Lower Upper

212 100

106 16.2 12.6 19.0

104 10.2 7.4 11.0

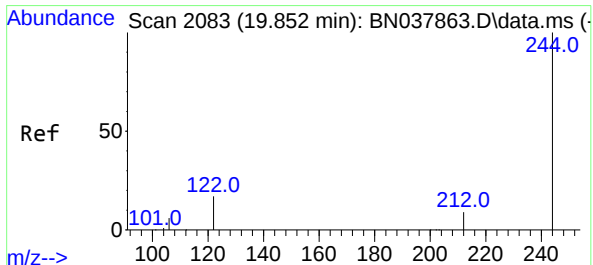
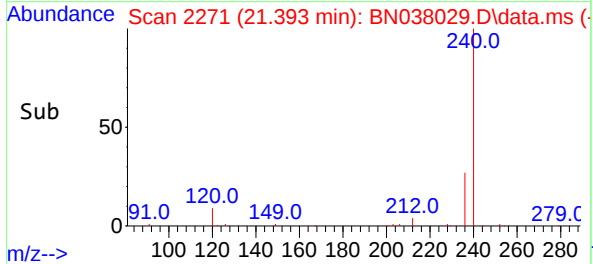
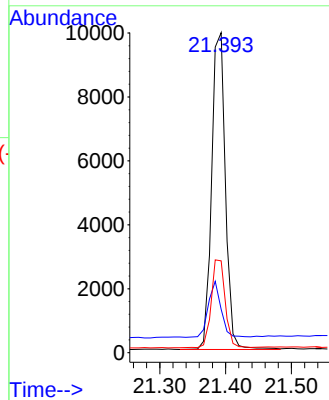
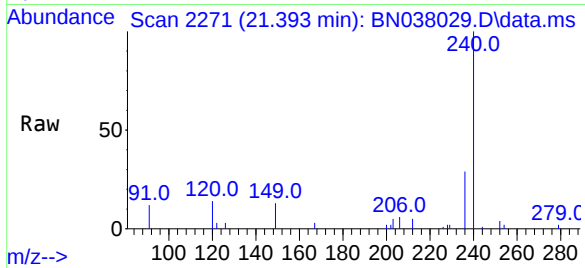




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.393 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038029.D  
Acq: 07 Oct 2025 03:46

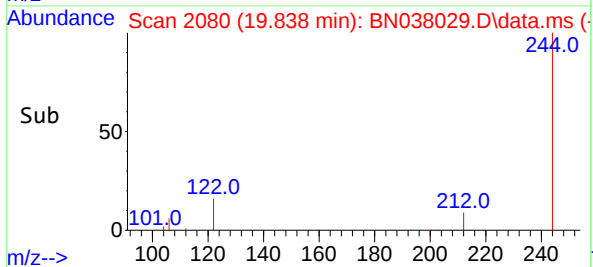
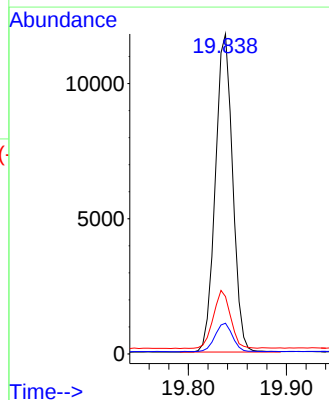
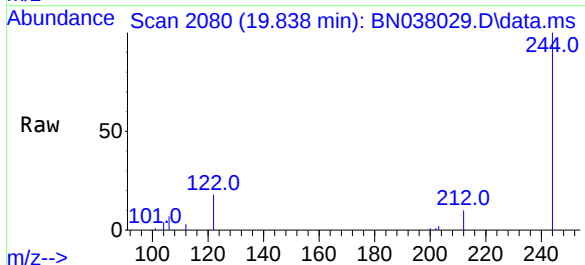
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-340-342

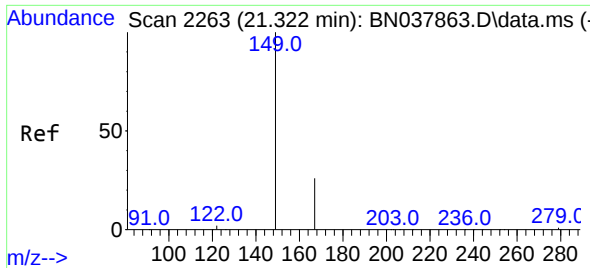
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 240   | Resp: | 14461 |
| Ion      | Ratio | Lower | Upper |
| 240      | 100   |       |       |
| 120      | 13.6  | 11.4  | 17.2  |
| 236      | 28.7  | 23.0  | 34.6  |



#31  
Terphenyl-d14  
Concen: 0.501 ng  
RT: 19.838 min Scan# 2080  
Delta R.T. -0.014 min  
Lab File: BN038029.D  
Acq: 07 Oct 2025 03:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 244   | Resp: | 14430 |
| Ion      | Ratio | Lower | Upper |
| 244      | 100   |       |       |
| 212      | 9.6   | 7.6   | 11.4  |
| 122      | 17.9  | 13.9  | 20.9  |

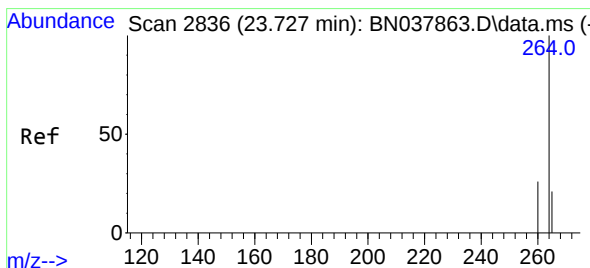
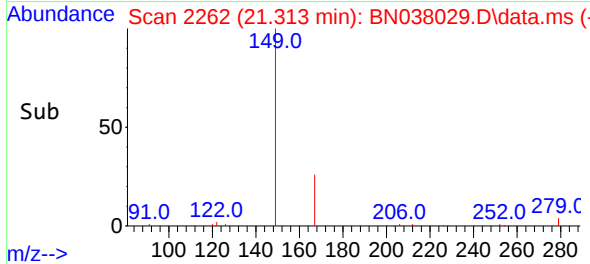
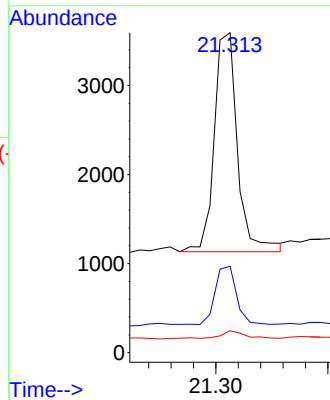
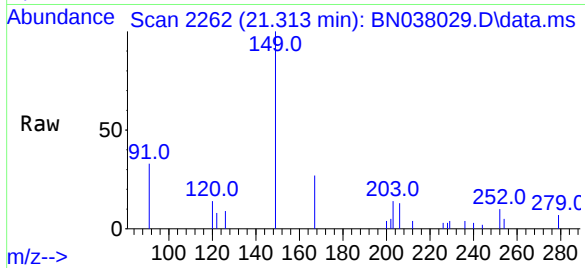




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.177 ng  
RT: 21.313 min Scan# 2130  
Delta R.T. -0.009 min  
Lab File: BN038029.D  
Acq: 07 Oct 2025 03:46

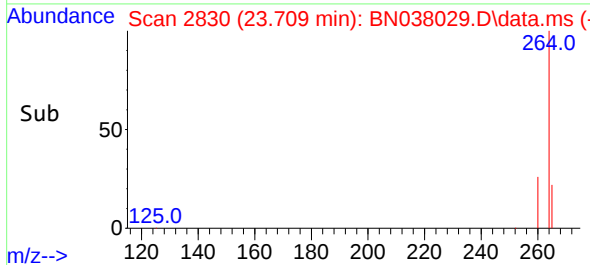
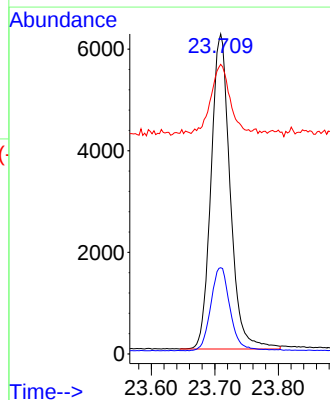
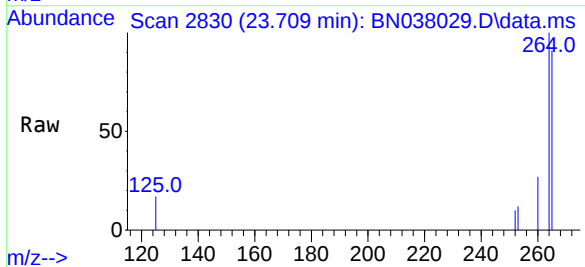
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-340-342

Tgt Ion:149 Resp: 3537  
Ion Ratio Lower Upper  
149 100  
167 24.1 20.4 30.6  
279 3.5 2.4 3.6



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.709 min Scan# 2830  
Delta R.T. -0.018 min  
Lab File: BN038029.D  
Acq: 07 Oct 2025 03:46

Tgt Ion:264 Resp: 12966  
Ion Ratio Lower Upper  
264 100  
260 27.0 21.5 32.3  
265 90.5 53.8 80.6#



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 09/23/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 09/25/25       |
| Client Sample ID:  | BP-VPB-184-GW-380-382         | SDG No.:        | Q3213          |
| Lab Sample ID:     | Q3213-05                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 590 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 |
| BN038030.D        | 1         | 09/26/25 13:15 | 10/07/25 04:22 | PB169904      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.42  |           | 0.11     | 0.34 | 0.34       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.31  |           | 30 - 150 |      | 78%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.39  |           | 30 - 150 |      | 97%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 55 - 111 |      | 90%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.36  |           | 53 - 106 |      | 90%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.57  | *         | 58 - 132 |      | 142%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 8870  |           | 7.804    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 26100 |           | 10.605   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 14200 |           | 14.462   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 28000 |           | 17.21    |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 20300 |           | 21.384   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 15100 |           | 23.709   |      |            |          |

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\BN100625\  
 Data File : BN038030.D  
 Acq On : 07 Oct 2025 04:22  
 Operator : RC/JU  
 Sample : Q3213-05  
 Misc :  
 ALS Vial : 30 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 BP-VPB-184-GW-380-382

Quant Time: Oct 07 05:59:31 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 11:00:01 2025  
 Response via : Initial Calibration

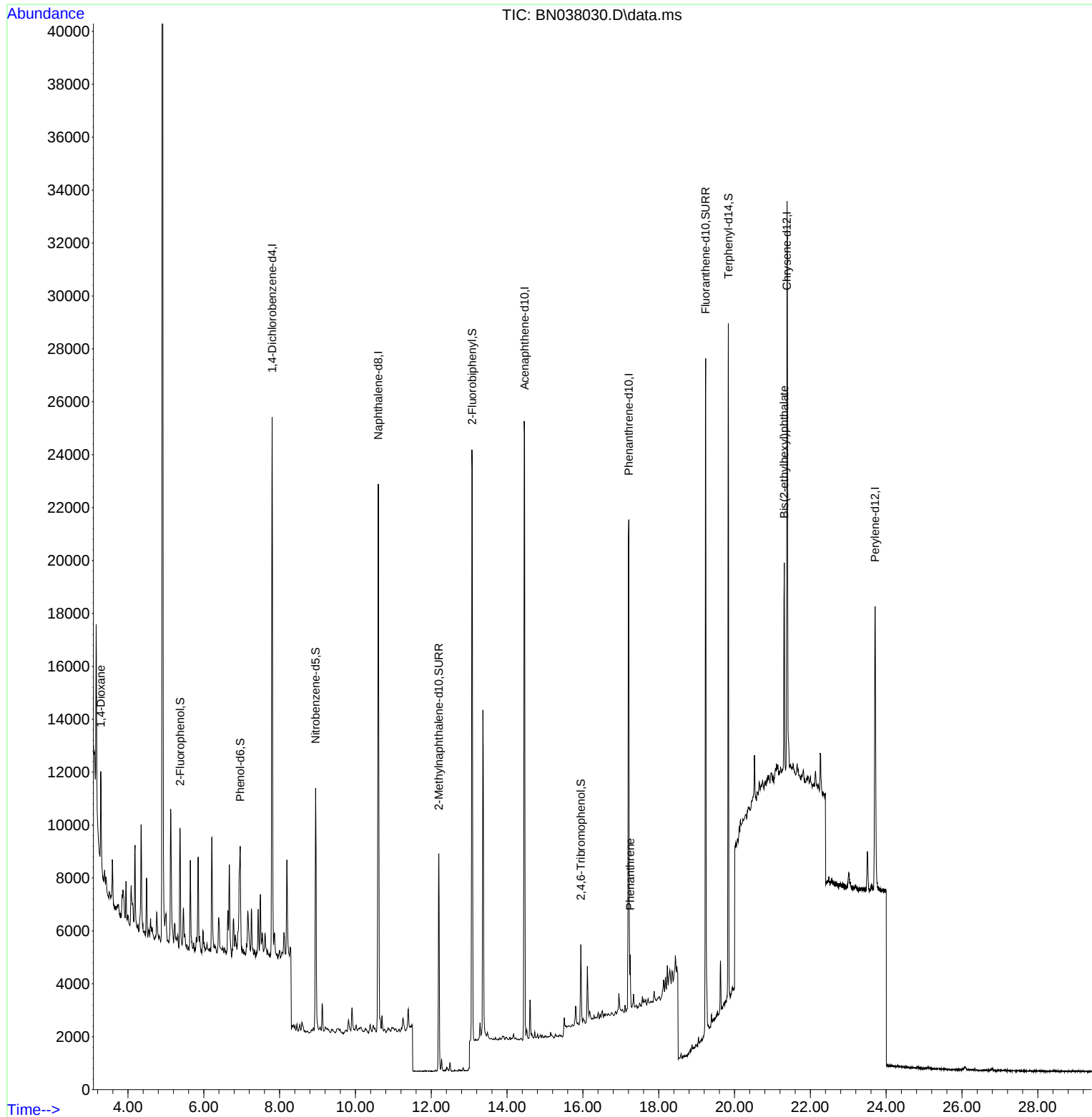
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.804  | 152  | 8865     | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8             | 10.605 | 136  | 26053    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.462 | 164  | 14244    | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.210 | 188  | 27982    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.384 | 240  | 20322    | 0.400 | ng    | #-0.02   |
| 35) Perylene-d12              | 23.709 | 264  | 15136    | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.377  | 112  | 3497     | 0.173 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.959  | 99   | 3022     | 0.114 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.950  | 82   | 7146     | 0.360 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 12.197 | 152  | 11299    | 0.312 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.944 | 330  | 1691     | 0.313 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 13.083 | 172  | 21093    | 0.362 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.238 | 212  | 27297    | 0.388 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.838 | 244  | 23007    | 0.568 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.283  | 88   | 2236     | 0.248 | ng    | # 76     |
| 25) Phenanthrene              | 17.248 | 178  | 2186     | 0.024 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 21.313 | 149  | 7508     | 0.267 | ng    | 96       |

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

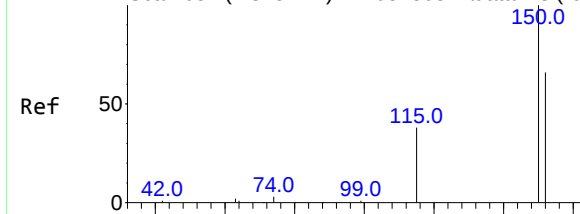
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Data File : BN038030.D  
Acq On : 07 Oct 2025 04:22  
Operator : RC/JU  
Sample : Q3213-05  
Misc :  
ALS Vial : 30 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-380-382

Quant Time: Oct 07 05:59:31 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64)



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

Instrument :

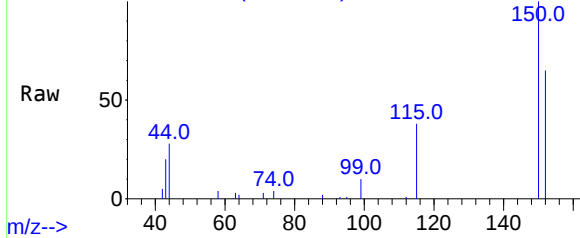
BNA\_N

ClientSampleId :

BP-VPB-184-GW-380-382

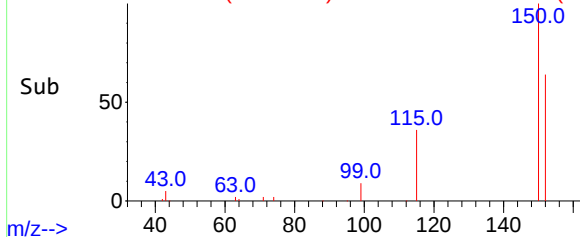
m/z--&gt;

Abundance Scan 654 (7.804 min): BN038030.D\data.ms



m/z--&gt;

Abundance Scan 654 (7.804 min): BN038030.D\data.ms (-62)



m/z--&gt;

Tgt Ion:152 Resp: 8865

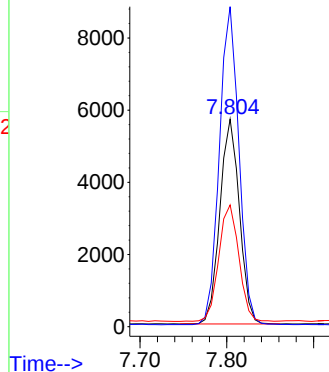
Ion Ratio Lower Upper

152 100

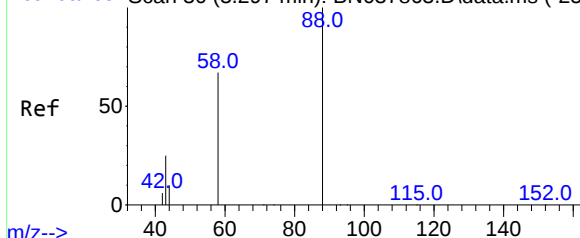
150 154.2 121.0 181.4

115 58.6 47.4 71.0

Abundance

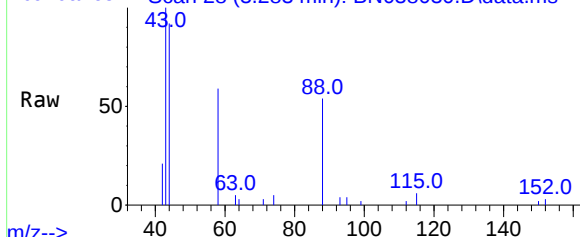


Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



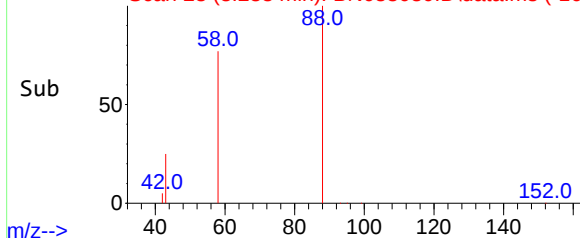
m/z--&gt;

Abundance Scan 28 (3.283 min): BN038030.D\data.ms



m/z--&gt;

Abundance Scan 28 (3.283 min): BN038030.D\data.ms (-16)



m/z--&gt;

#2

1,4-Dioxane

Concen: 0.248 ng

RT: 3.283 min Scan# 28

Delta R.T. -0.015 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

Tgt Ion: 88 Resp: 2236

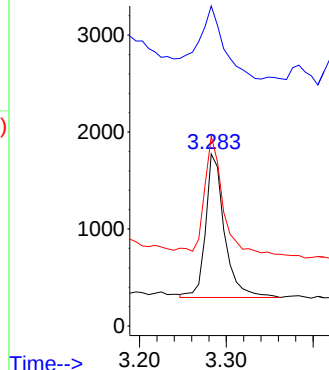
Ion Ratio Lower Upper

88 100

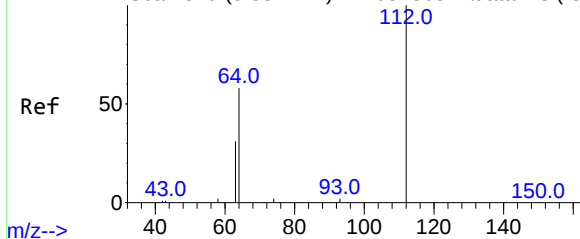
43 69.5 26.6 39.8

58 78.1 58.9 88.3

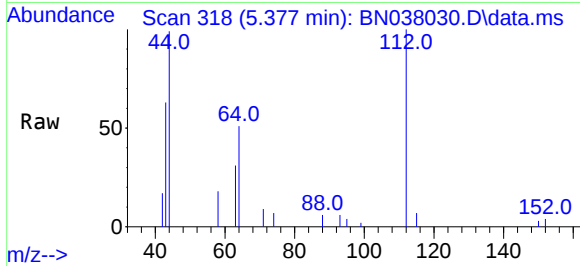
Abundance



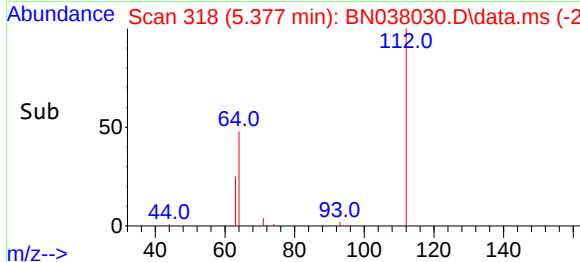
Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31



m/z--&gt; Scan 318 (5.377 min): BN038030.D\data.ms



m/z--&gt; Abundance Scan 318 (5.377 min): BN038030.D\data.ms (-29



m/z--&gt;

#4

2-Fluorophenol

Concen: 0.173 ng

RT: 5.377 min Scan# 31

Delta R.T. -0.007 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-184-GW-380-382

Tgt Ion:112 Resp: 3497

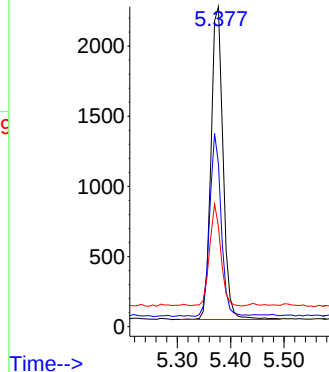
Ion Ratio Lower Upper

112 100

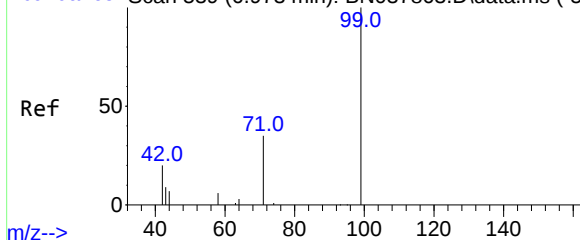
64 55.2 44.6 66.8

63 30.2 24.9 37.3

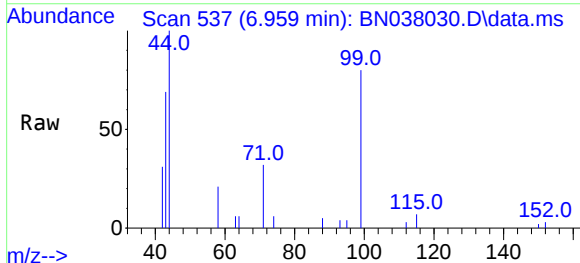
Abundance



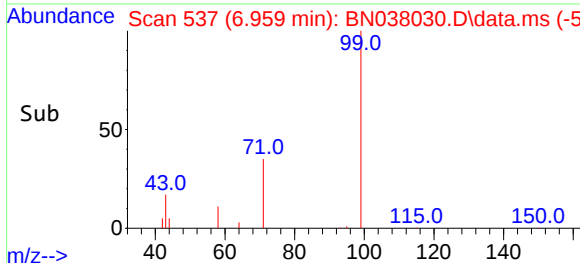
Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



m/z--&gt; Scan 537 (6.959 min): BN038030.D\data.ms



m/z--&gt; Abundance Scan 537 (6.959 min): BN038030.D\data.ms (-51



m/z--&gt;

#5

Phenol-d6

Concen: 0.114 ng

RT: 6.959 min Scan# 537

Delta R.T. -0.015 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

Tgt Ion: 99 Resp: 3022

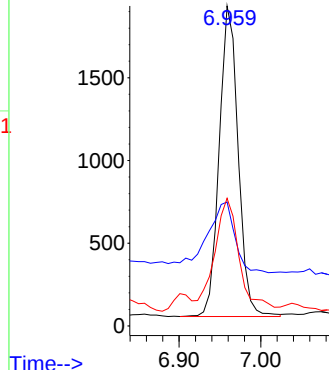
Ion Ratio Lower Upper

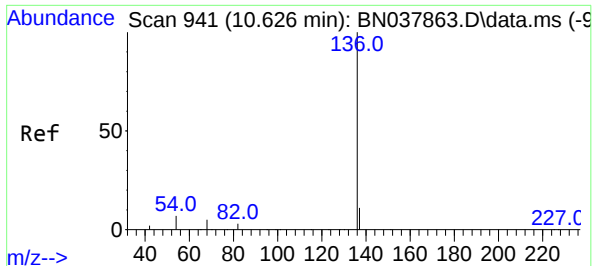
99 100

42 33.2 17.2 25.8#

71 46.1 27.3 40.9#

Abundance

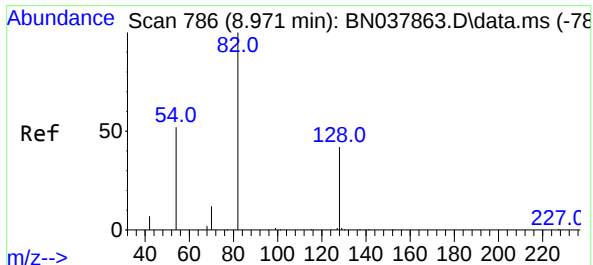
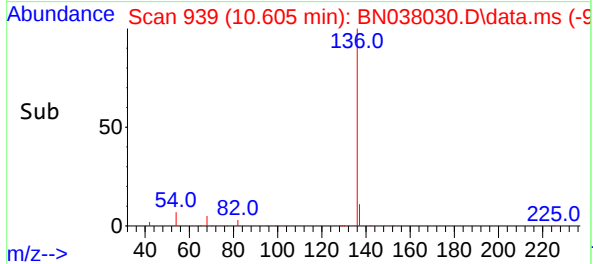
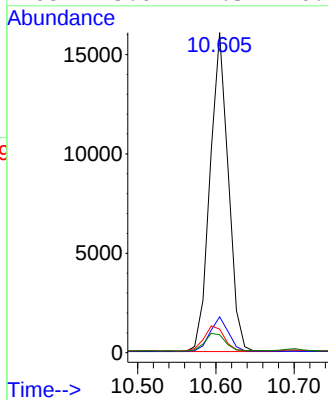
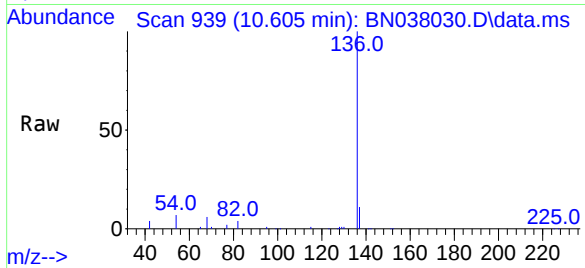




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.605 min Scan# 91  
Delta R.T. -0.021 min  
Lab File: BN038030.D  
Acq: 07 Oct 2025 04:22

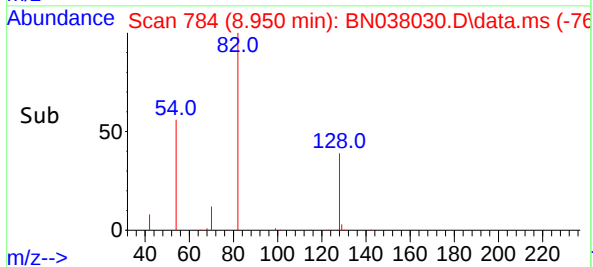
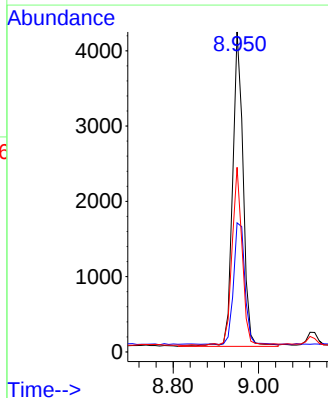
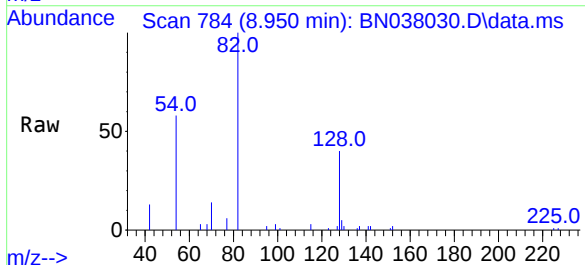
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-380-382

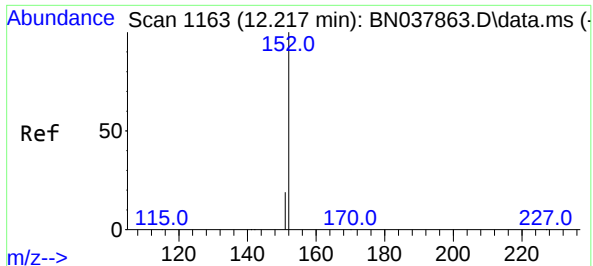
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 26053 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.2  | 9.0   | 13.4  |
| 54       | 7.3   | 5.8   | 8.8   |
| 68       | 5.6   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.360 ng  
RT: 8.950 min Scan# 784  
Delta R.T. -0.021 min  
Lab File: BN038030.D  
Acq: 07 Oct 2025 04:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 7146  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.4  | 34.8  | 52.2  |
| 54       | 57.7  | 42.2  | 63.2  |

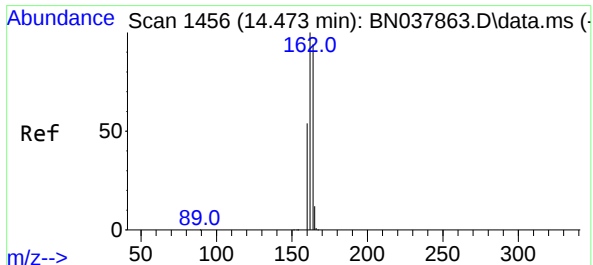
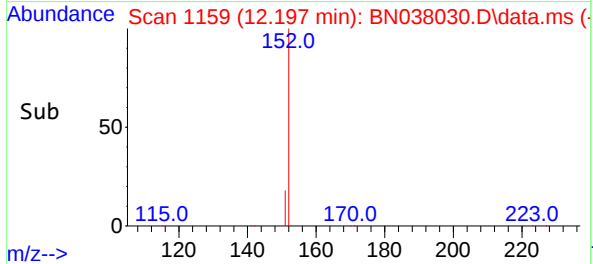
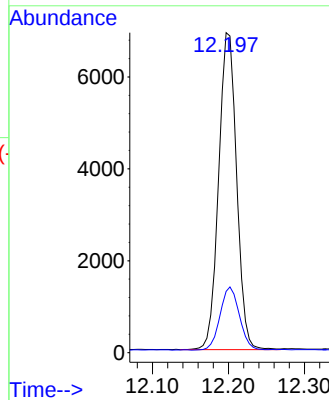
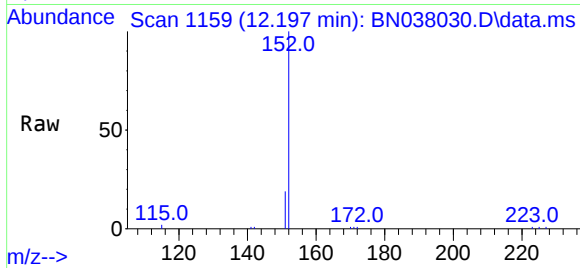




#11  
2-Methylnaphthalene-d10  
Concen: 0.312 ng  
RT: 12.197 min Scan# 1163  
Delta R.T. -0.020 min  
Lab File: BN038030.D  
Acq: 07 Oct 2025 04:22

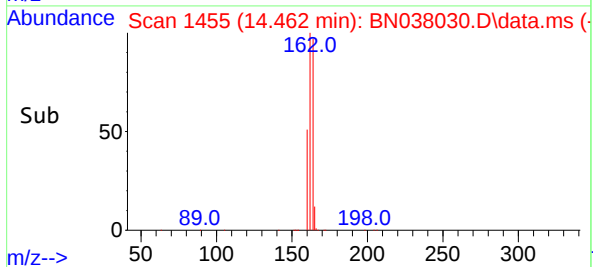
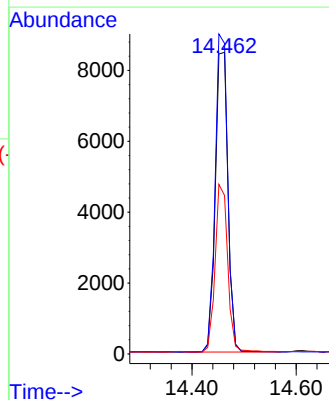
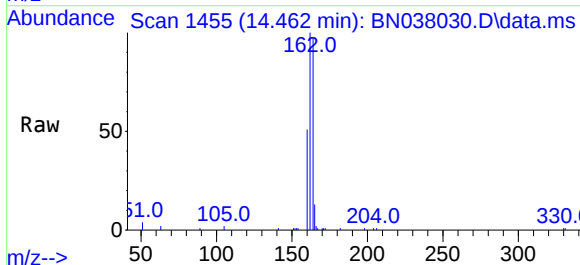
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-380-382

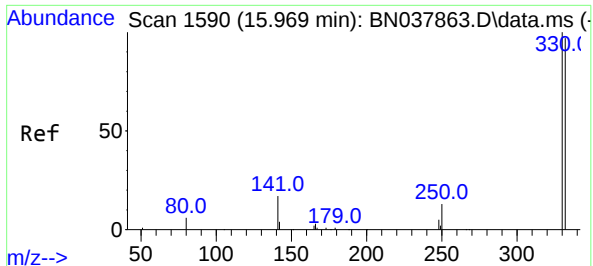
Tgt Ion:152 Resp: 11299  
Ion Ratio Lower Upper  
152 100  
151 21.4 17.4 26.2



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.462 min Scan# 1455  
Delta R.T. -0.011 min  
Lab File: BN038030.D  
Acq: 07 Oct 2025 04:22

Tgt Ion:164 Resp: 14244  
Ion Ratio Lower Upper  
164 100  
162 103.0 84.8 127.2  
160 52.6 46.1 69.1

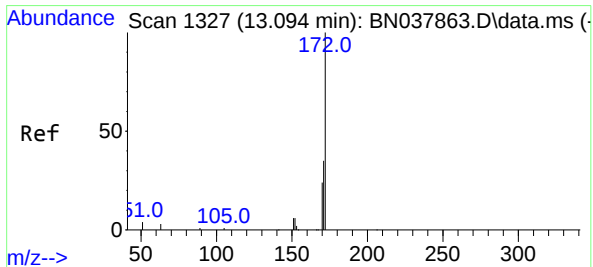
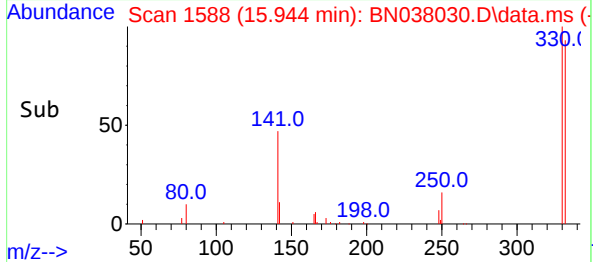
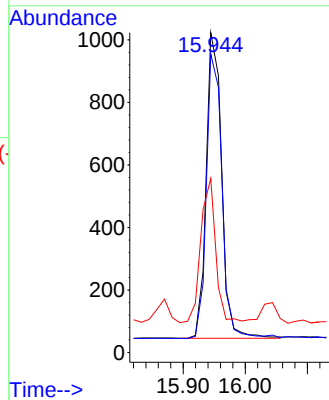
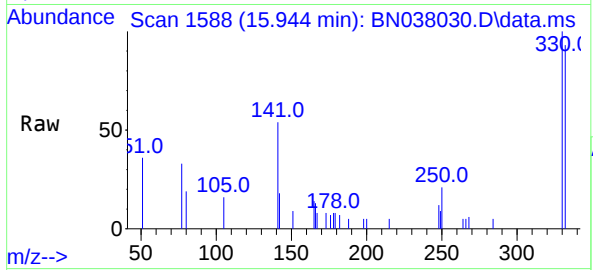




#14  
2,4,6-Tribromophenol  
Concen: 0.313 ng  
RT: 15.944 min Scan# 1588  
Delta R.T. -0.025 min  
Lab File: BN038030.D  
Acq: 07 Oct 2025 04:22

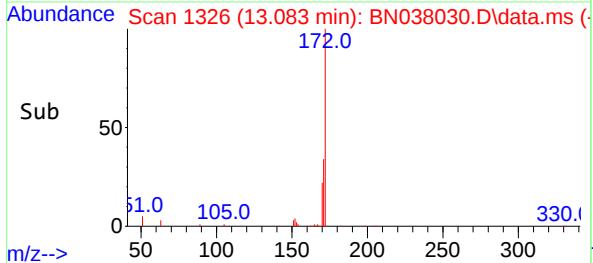
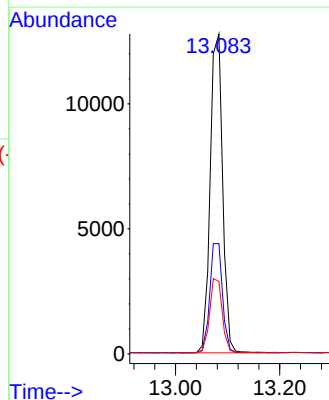
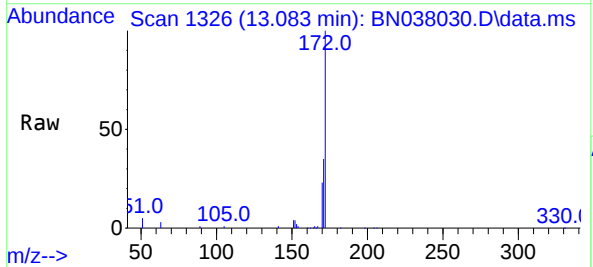
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-380-382

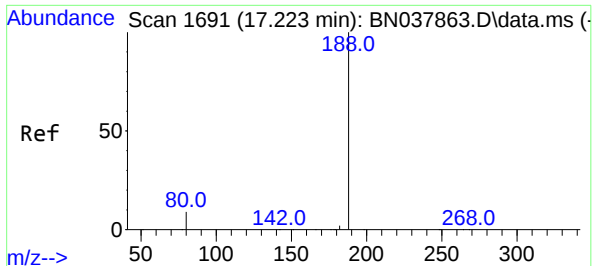
Tgt Ion: 330 Resp: 1691  
Ion Ratio Lower Upper  
330 100  
332 95.1 77.2 115.8  
141 45.6 37.2 55.8



#15  
2-Fluorobiphenyl  
Concen: 0.362 ng  
RT: 13.083 min Scan# 1326  
Delta R.T. -0.011 min  
Lab File: BN038030.D  
Acq: 07 Oct 2025 04:22

Tgt Ion: 172 Resp: 21093  
Ion Ratio Lower Upper  
172 100  
171 34.5 28.6 43.0  
170 22.7 19.7 29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 1690

Delta R.T. -0.013 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-184-GW-380-382

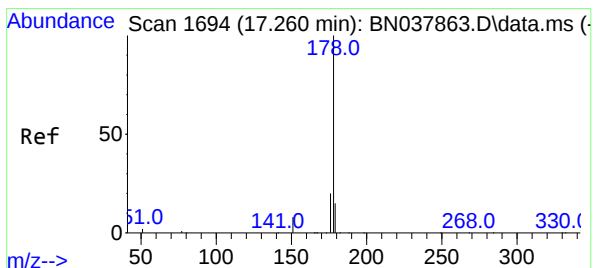
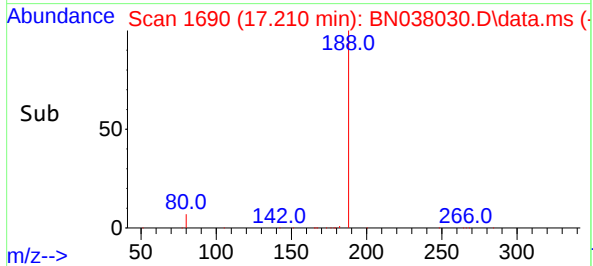
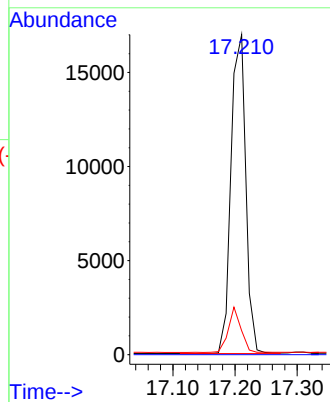
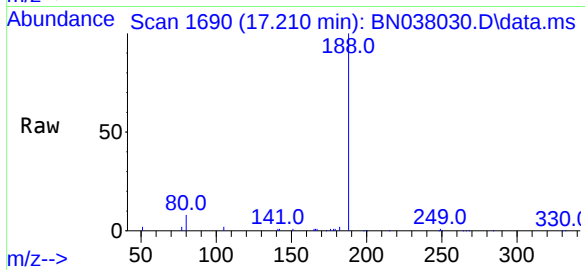
Tgt Ion:188 Resp: 27982

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 7.6 11.4#



#25

Phenanthrene

Concen: 0.024 ng

RT: 17.248 min Scan# 1693

Delta R.T. -0.013 min

Lab File: BN038030.D

Acq: 07 Oct 2025 04:22

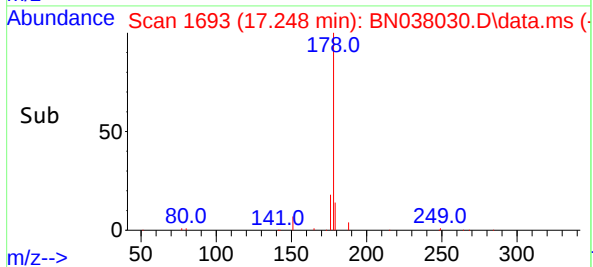
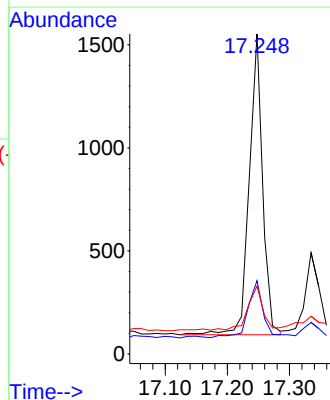
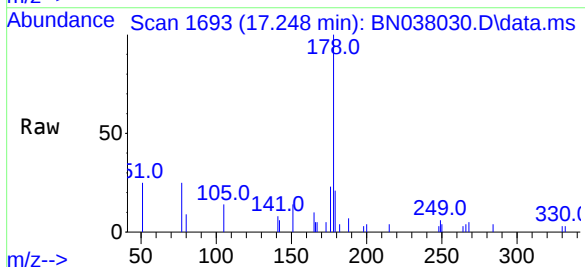
Tgt Ion:178 Resp: 2186

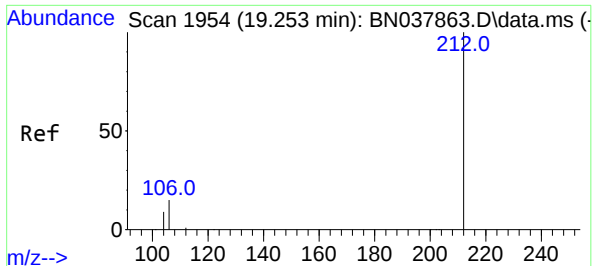
Ion Ratio Lower Upper

178 100

176 21.1 15.7 23.5

179 16.6 12.3 18.5

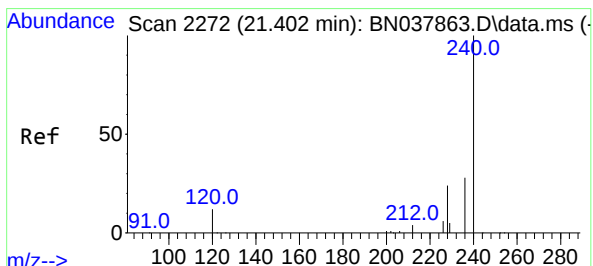
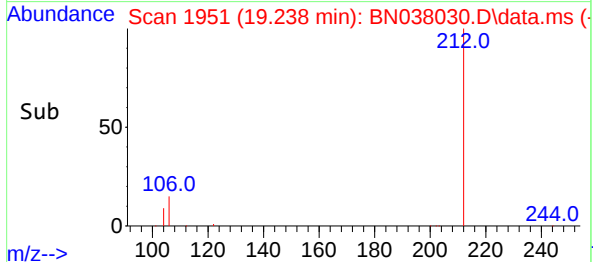
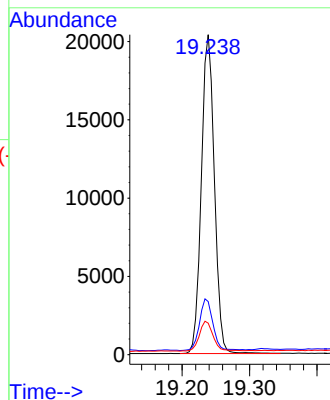
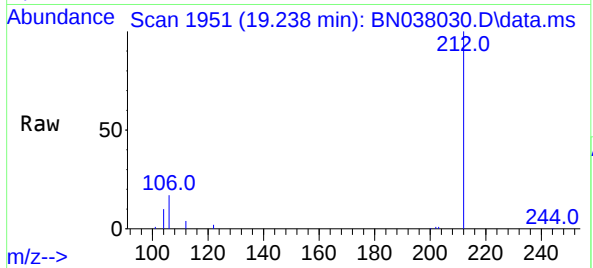




#27  
Fluoranthene-d10  
Concen: 0.388 ng  
RT: 19.238 min Scan# 1951  
Delta R.T. -0.014 min  
Lab File: BN038030.D  
Acq: 07 Oct 2025 04:22

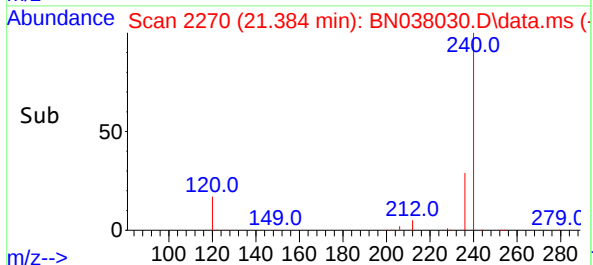
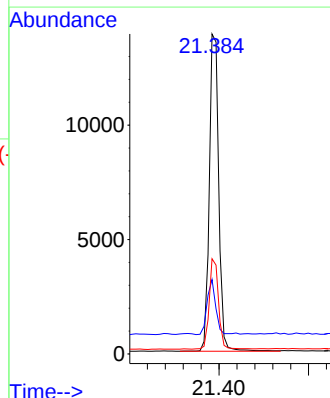
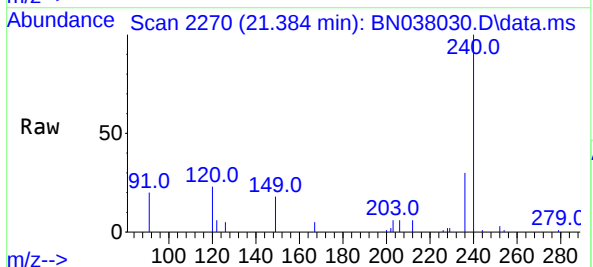
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-380-382

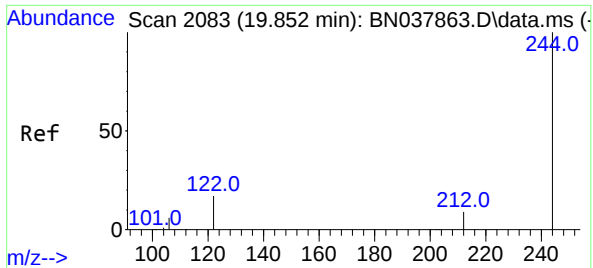
Tgt Ion:212 Resp: 27297  
Ion Ratio Lower Upper  
212 100  
106 16.6 12.6 19.0  
104 9.9 7.4 11.0



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.384 min Scan# 2270  
Delta R.T. -0.018 min  
Lab File: BN038030.D  
Acq: 07 Oct 2025 04:22

Tgt Ion:240 Resp: 20322  
Ion Ratio Lower Upper  
240 100  
120 23.3 11.4 17.2#  
236 29.8 23.0 34.6

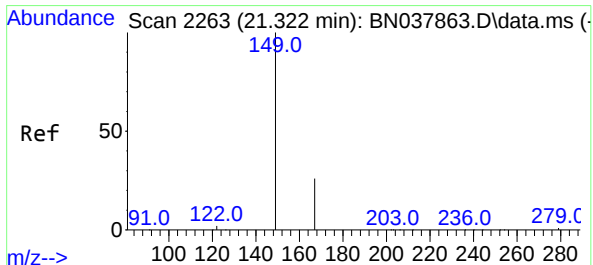
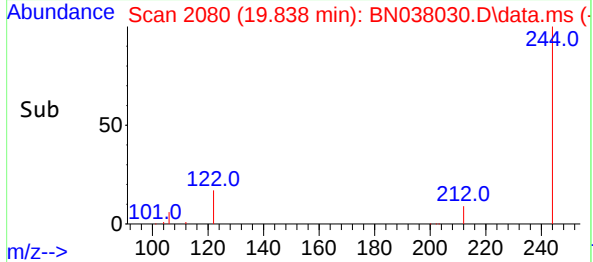
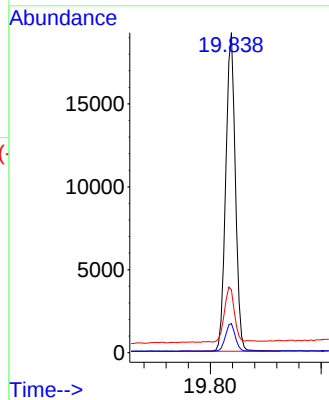
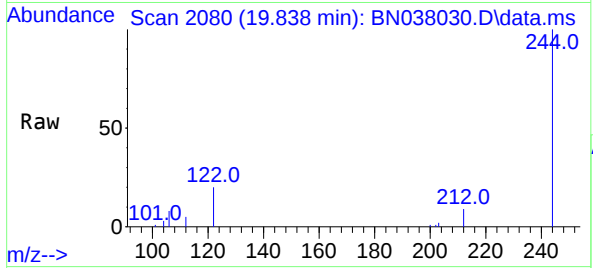




#31  
Terphenyl-d14  
Concen: 0.568 ng  
RT: 19.838 min Scan# 2080  
Delta R.T. -0.014 min  
Lab File: BN038030.D  
Acq: 07 Oct 2025 04:22

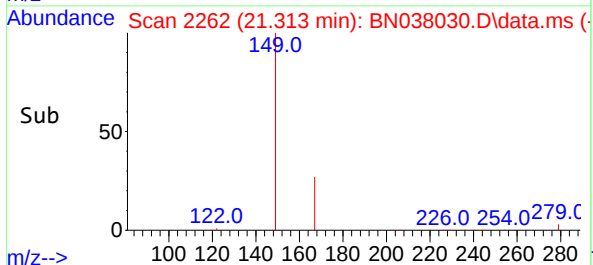
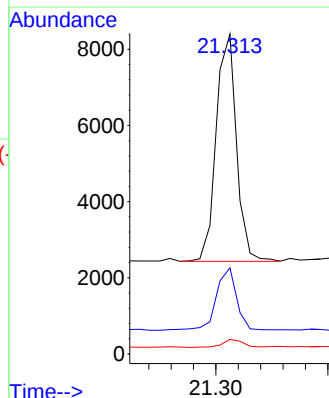
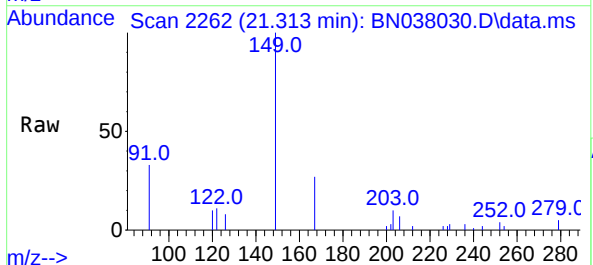
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-380-382

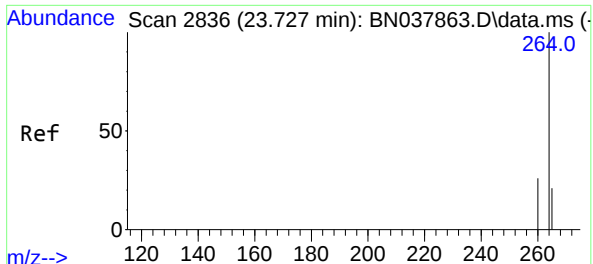
Tgt Ion:244 Resp: 23007  
Ion Ratio Lower Upper  
244 100  
212 9.1 7.6 11.4  
122 19.7 13.9 20.9



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.267 ng  
RT: 21.313 min Scan# 2262  
Delta R.T. -0.009 min  
Lab File: BN038030.D  
Acq: 07 Oct 2025 04:22

Tgt Ion:149 Resp: 7508  
Ion Ratio Lower Upper  
149 100  
167 27.5 20.4 30.6  
279 3.5 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.709 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN038030.D

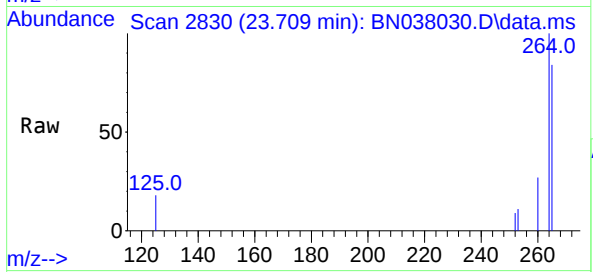
Acq: 07 Oct 2025 04:22

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-184-GW-380-382



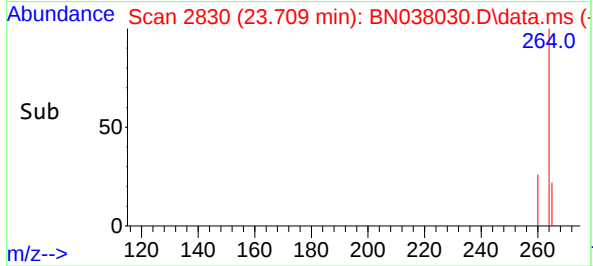
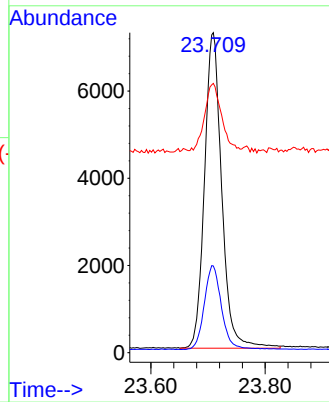
Tgt Ion:264 Resp: 15136

Ion Ratio Lower Upper

264 100

260 27.1 21.5 32.3

265 84.2 53.8 80.6#



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 09/23/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 09/25/25       |
| Client Sample ID:  | BP-VPB-184-DUP-20250923       | SDG No.:        | Q3213          |
| Lab Sample ID:     | Q3213-06                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 510      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 |
| BN038031.D        | 1         | 09/26/25 13:15 | 10/07/25 04:58 | PB169904      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.47  |           | 0.13     | 0.39 | 0.39       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.29  |           | 30 - 150 |      | 73%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.36  |           | 30 - 150 |      | 90%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.35  |           | 55 - 111 |      | 88%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.34  |           | 53 - 106 |      | 86%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.51  |           | 58 - 132 |      | 127%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 10000 | 7.804     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 28500 | 10.605    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 13800 | 14.452    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 22700 | 17.211    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 16800 | 21.393    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 17600 | 23.706    |          |      |            |          |

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\BN100625\  
Data File : BN038031.D  
Acq On : 07 Oct 2025 04:58  
Operator : RC/JU  
Sample : Q3213-06  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-DUP-20250923

Quant Time: Oct 07 05:59:53 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration

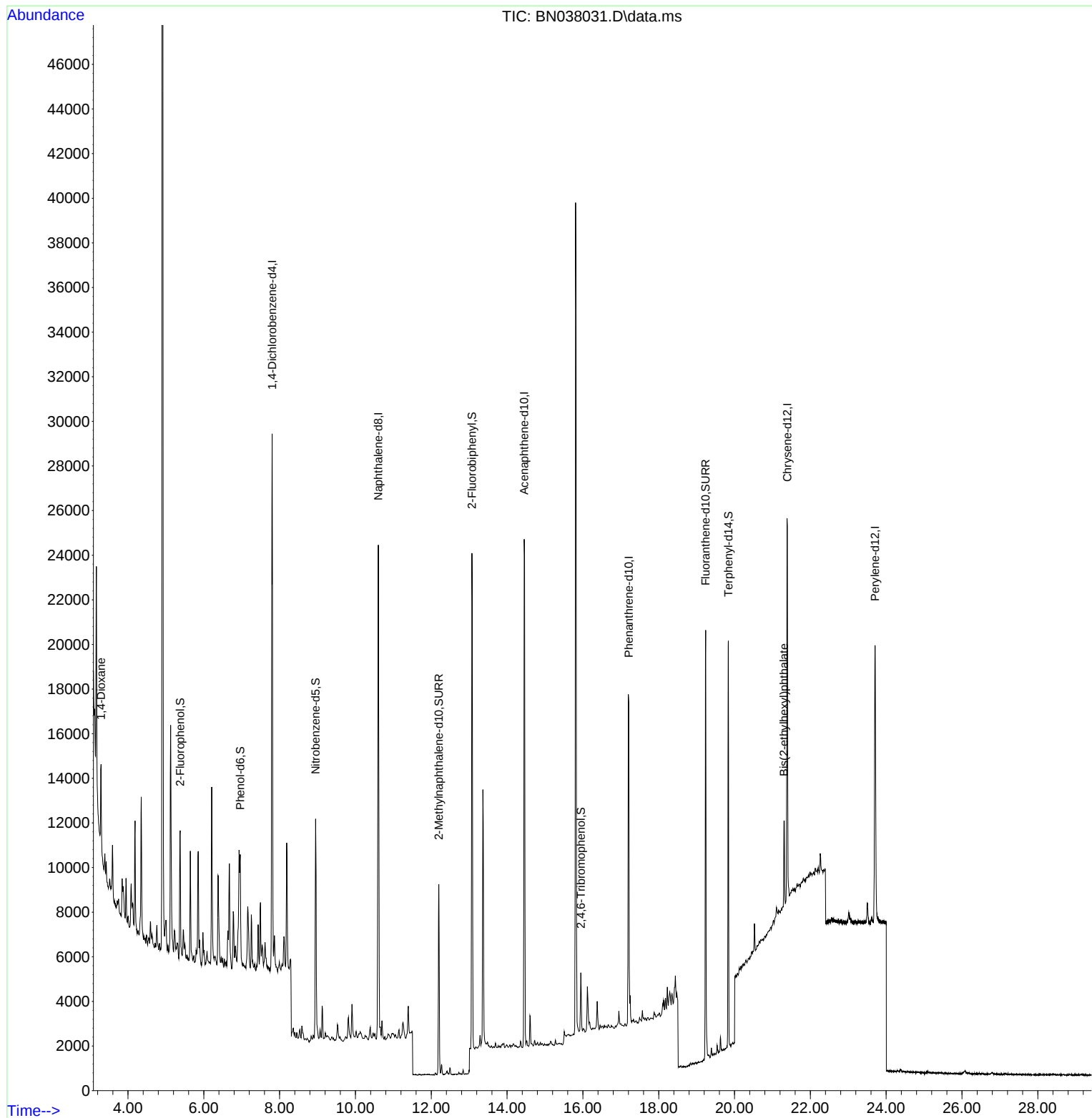
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.804  | 152  | 10013    | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8             | 10.605 | 136  | 28507    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.452 | 164  | 13798    | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 17.211 | 188  | 22690    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.393 | 240  | 16816    | 0.400 | ng    | -0.00    |
| 35) Perylene-d12              | 23.706 | 264  | 17577    | 0.400 | ng    | -0.02    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.377  | 112  | 4306     | 0.188 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.959  | 99   | 3872     | 0.129 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.950  | 82   | 7607     | 0.350 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 12.197 | 152  | 11536    | 0.291 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.945 | 330  | 1495     | 0.286 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 13.073 | 172  | 19350    | 0.343 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 19.239 | 212  | 20428    | 0.358 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.838 | 244  | 16981    | 0.507 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.290  | 88   | 2457     | 0.242 | ng    | # 53     |
| 34) Bis(2-ethylhexyl)phtha... | 21.304 | 149  | 4177     | 0.180 | ng    | # 99     |

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

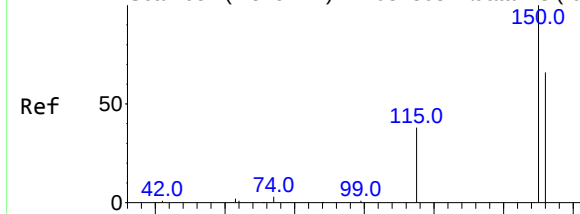
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038031.D  
Acq On : 07 Oct 2025 04:58  
Operator : RC/JU  
Sample : Q3213-06  
Misc :  
ALS Vial : 31 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-DUP-20250923

Quant Time: Oct 07 05:59:53 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64)



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

Instrument :

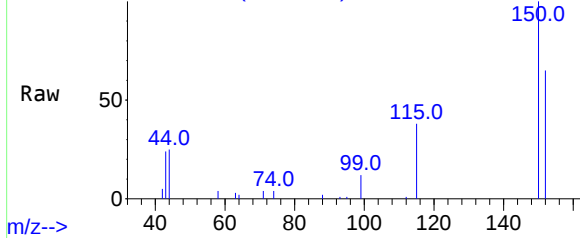
BNA\_N

ClientSampleId :

BP-VPB-184-DUP-20250923

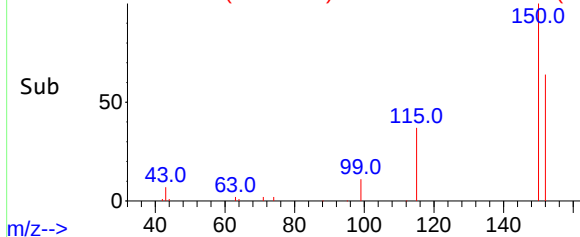
m/z--&gt;

Abundance Scan 654 (7.804 min): BN038031.D\data.ms



m/z--&gt;

Abundance Scan 654 (7.804 min): BN038031.D\data.ms (-62)



m/z--&gt;

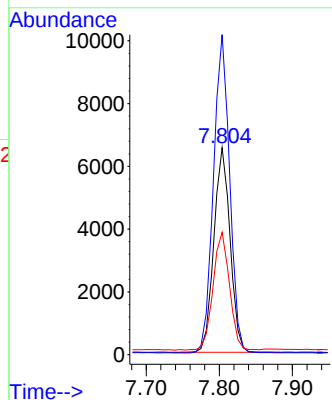
Tgt Ion:152 Resp: 10013

Ion Ratio Lower Upper

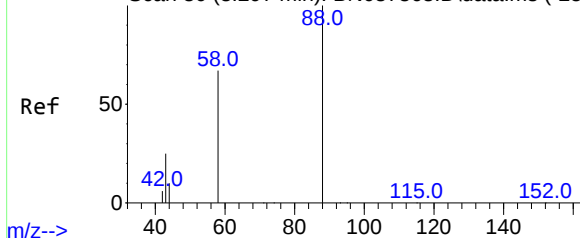
152 100

150 154.6 121.0 181.4

115 59.1 47.4 71.0

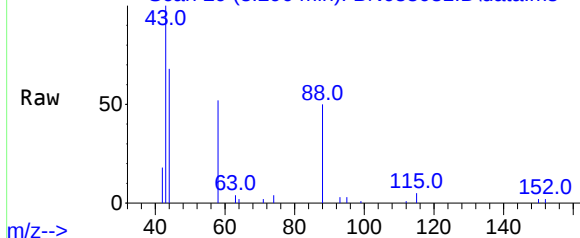


Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



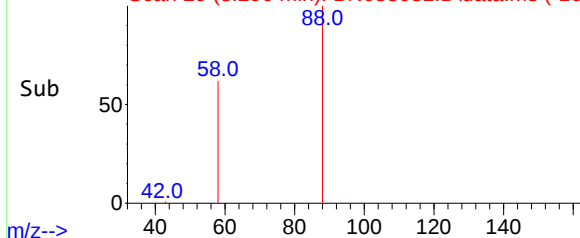
m/z--&gt;

Abundance Scan 29 (3.290 min): BN038031.D\data.ms



m/z--&gt;

Abundance Scan 29 (3.290 min): BN038031.D\data.ms (-16)



m/z--&gt;

#2

1,4-Dioxane

Concen: 0.242 ng

RT: 3.290 min Scan# 29

Delta R.T. -0.007 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

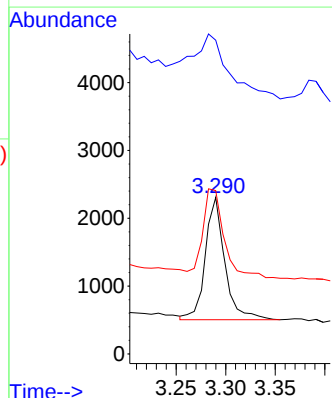
Tgt Ion: 88 Resp: 2457

Ion Ratio Lower Upper

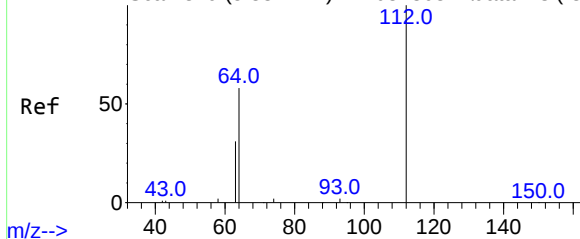
88 100

43 108.8 26.6 39.8

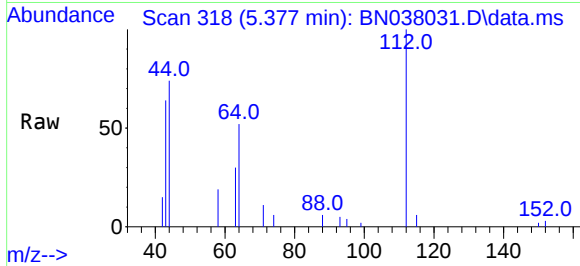
58 80.7 58.9 88.3



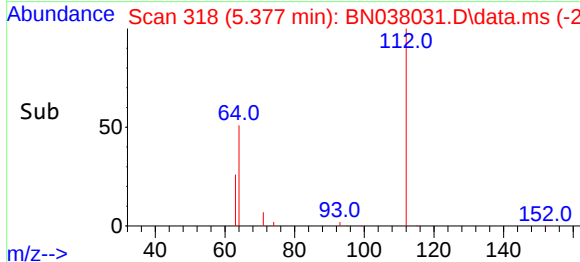
Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31



m/z--&gt; Scan 318 (5.377 min): BN038031.D\data.ms



m/z--&gt; Abundance Scan 318 (5.377 min): BN038031.D\data.ms (-29



m/z--&gt;

#4

2-Fluorophenol

Concen: 0.188 ng

RT: 5.377 min Scan# 31

Delta R.T. -0.007 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-184-DUP-20250923

Tgt Ion:112 Resp: 4306

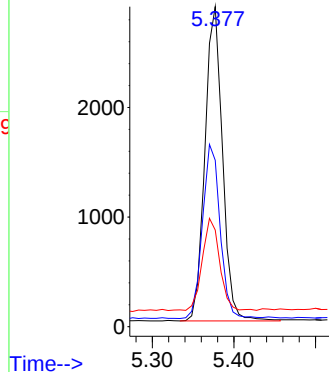
Ion Ratio Lower Upper

112 100

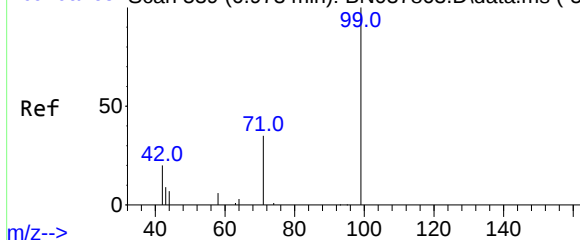
64 55.6 44.6 66.8

63 28.6 24.9 37.3

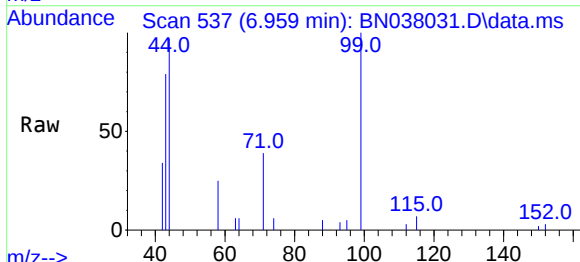
Abundance



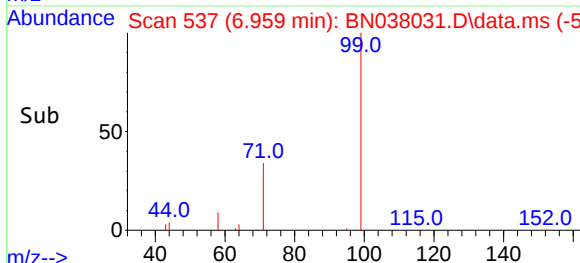
Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



m/z--&gt;



m/z--&gt; Abundance Scan 537 (6.959 min): BN038031.D\data.ms (-51



m/z--&gt;

#5

Phenol-d6

Concen: 0.129 ng

RT: 6.959 min Scan# 537

Delta R.T. -0.014 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

Tgt Ion: 99 Resp: 3872

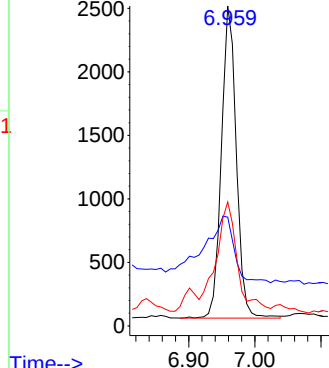
Ion Ratio Lower Upper

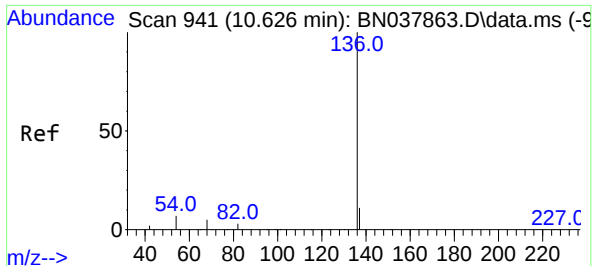
99 100

42 45.0 17.2 25.8#

71 49.6 27.3 40.9#

Abundance



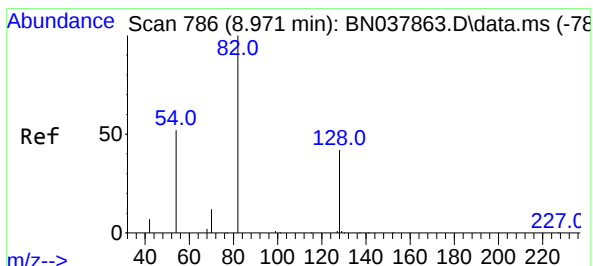
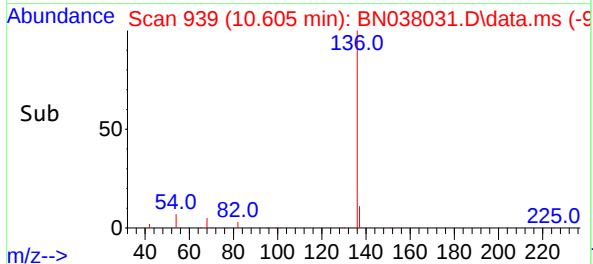
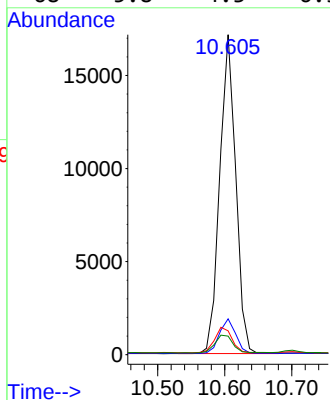
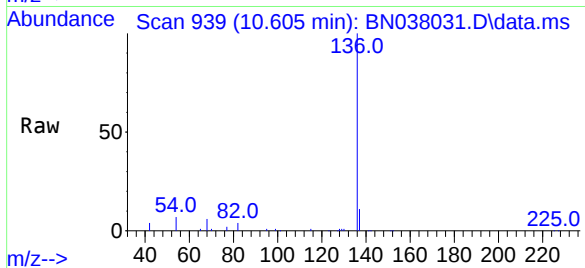


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.605 min Scan# 91  
Delta R.T. -0.021 min  
Lab File: BN038031.D  
Acq: 07 Oct 2025 04:58

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-DUP-20250923

Tgt Ion:136 Resp: 28507

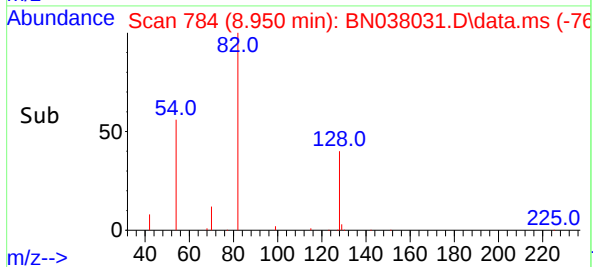
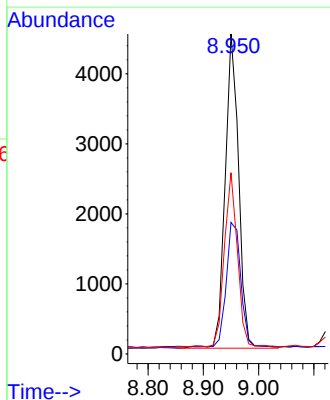
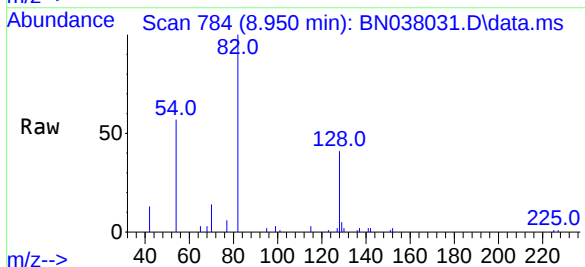
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.2  | 9.0   | 13.4  |
| 54  | 7.5   | 5.8   | 8.8   |
| 68  | 5.8   | 4.3   | 6.5   |

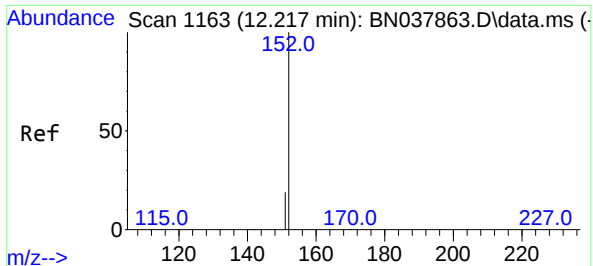


#8  
Nitrobenzene-d5  
Concen: 0.350 ng  
RT: 8.950 min Scan# 784  
Delta R.T. -0.021 min  
Lab File: BN038031.D  
Acq: 07 Oct 2025 04:58

Tgt Ion: 82 Resp: 7607

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 41.1  | 34.8  | 52.2  |
| 54  | 56.6  | 42.2  | 63.2  |

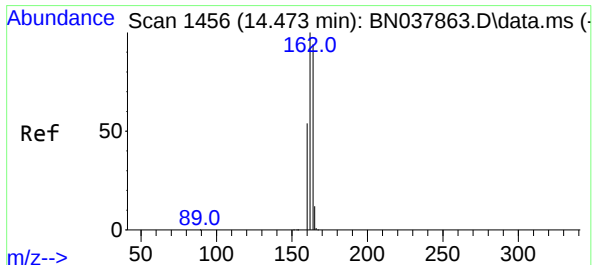
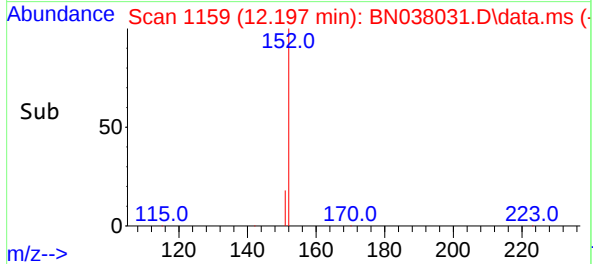
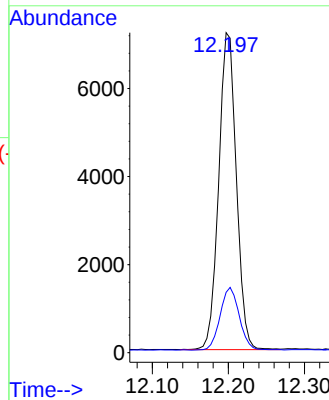
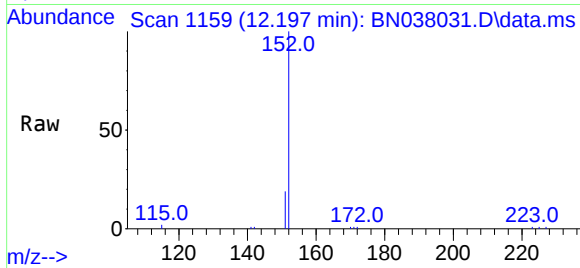




#11  
2-Methylnaphthalene-d10  
Concen: 0.291 ng  
RT: 12.197 min Scan# 1163  
Delta R.T. -0.020 min  
Lab File: BN038031.D  
Acq: 07 Oct 2025 04:58

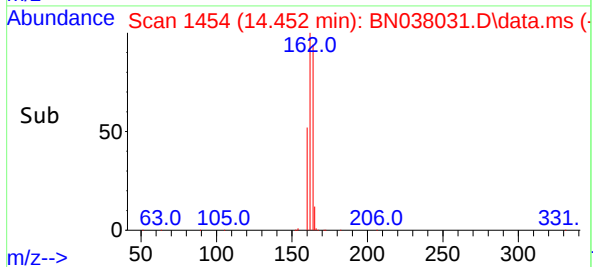
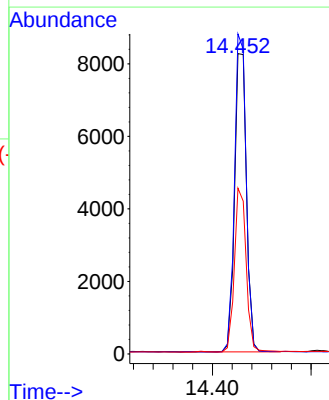
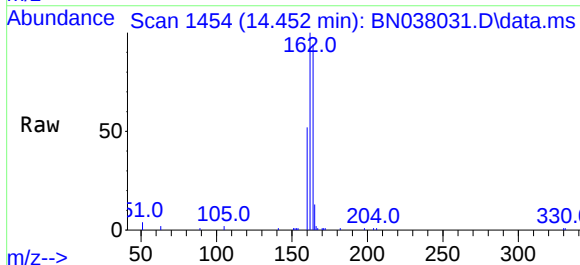
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-DUP-20250923

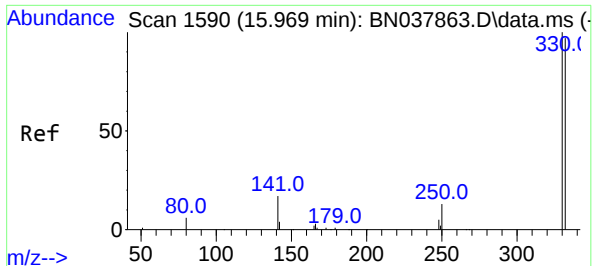
Tgt Ion:152 Resp: 11536  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.4 26.2



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.452 min Scan# 1454  
Delta R.T. -0.021 min  
Lab File: BN038031.D  
Acq: 07 Oct 2025 04:58

Tgt Ion:164 Resp: 13798  
Ion Ratio Lower Upper  
164 100  
162 106.6 84.8 127.2  
160 55.2 46.1 69.1

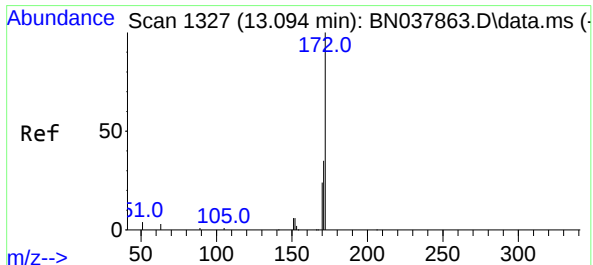
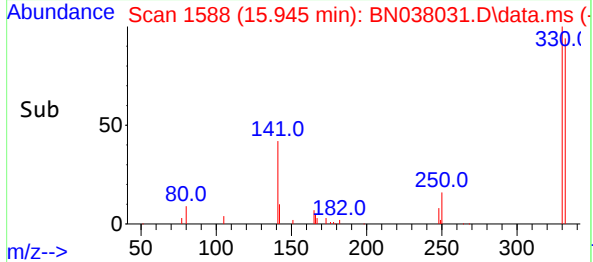
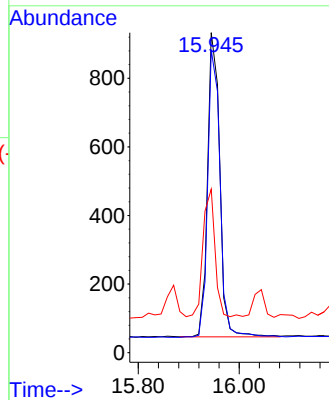
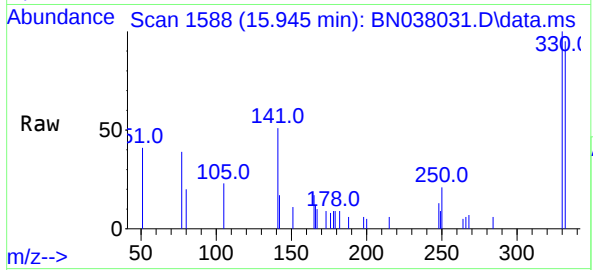




#14  
2,4,6-Tribromophenol  
Concen: 0.286 ng  
RT: 15.945 min Scan# 1588  
Delta R.T. -0.024 min  
Lab File: BN038031.D  
Acq: 07 Oct 2025 04:58

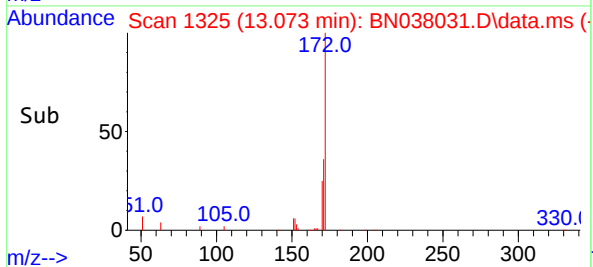
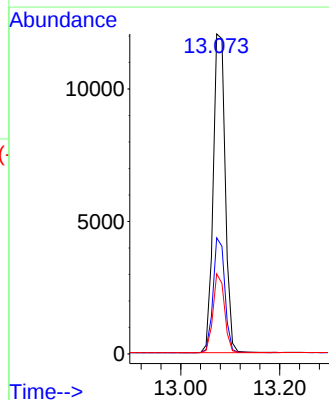
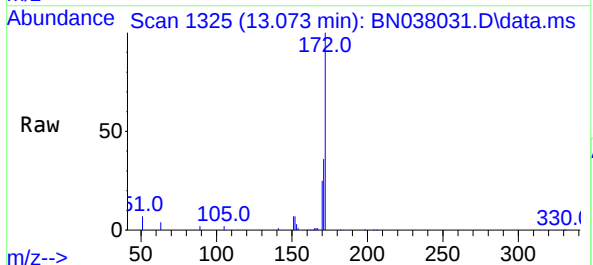
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-DUP-20250923

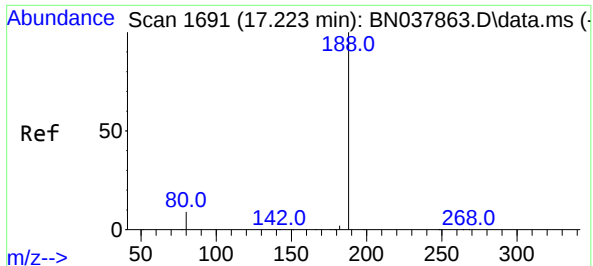
Tgt Ion:330 Resp: 1495  
Ion Ratio Lower Upper  
330 100  
332 96.2 77.2 115.8  
141 40.7 37.2 55.8



#15  
2-Fluorobiphenyl  
Concen: 0.343 ng  
RT: 13.073 min Scan# 1325  
Delta R.T. -0.021 min  
Lab File: BN038031.D  
Acq: 07 Oct 2025 04:58

Tgt Ion:172 Resp: 19350  
Ion Ratio Lower Upper  
172 100  
171 36.3 28.6 43.0  
170 25.1 19.7 29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-184-DUP-20250923

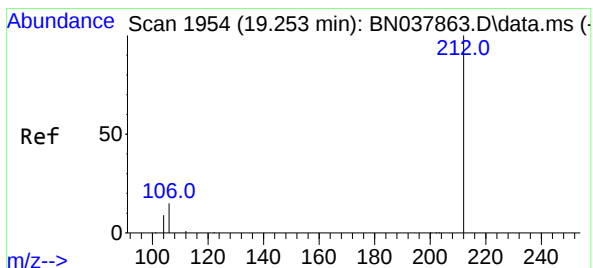
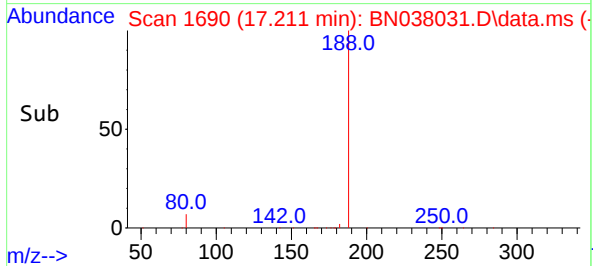
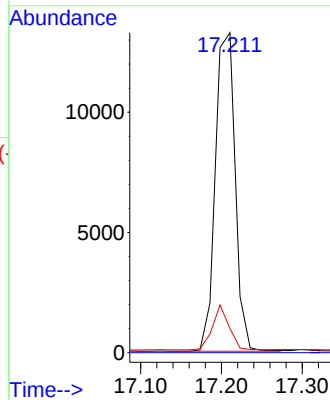
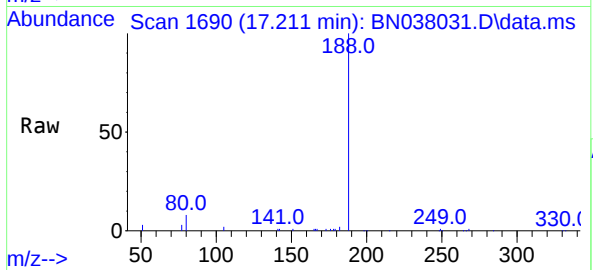
Tgt Ion:188 Resp: 22690

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.6 7.6 11.4#



#27

Fluoranthene-d10

Concen: 0.358 ng

RT: 19.239 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038031.D

Acq: 07 Oct 2025 04:58

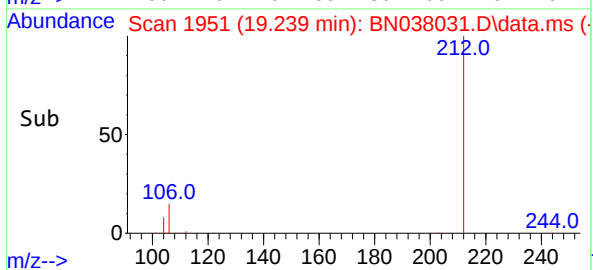
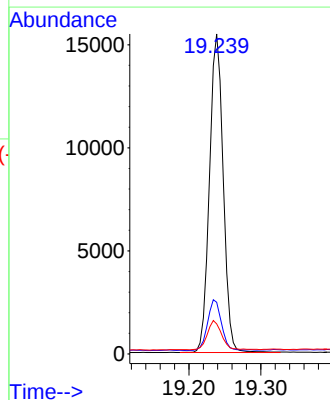
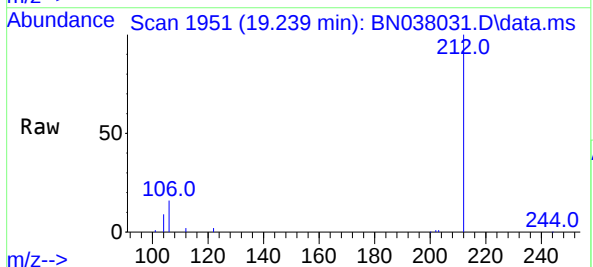
Tgt Ion:212 Resp: 20428

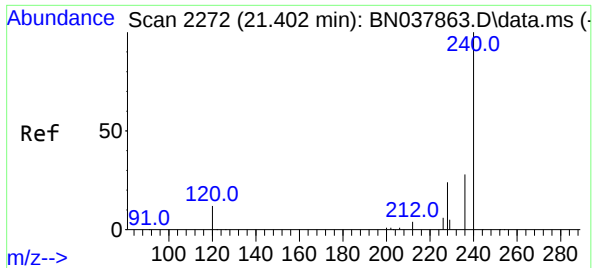
Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.7 7.4 11.0

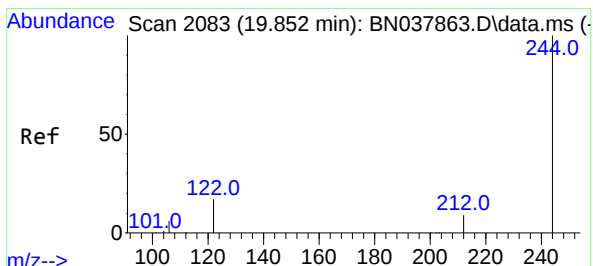
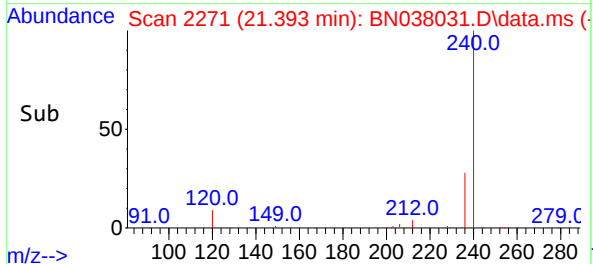
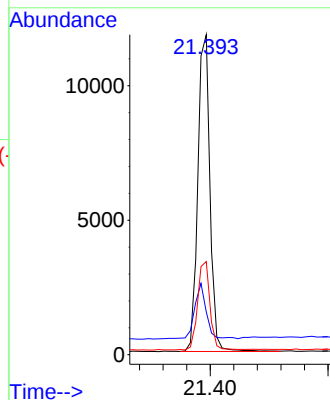
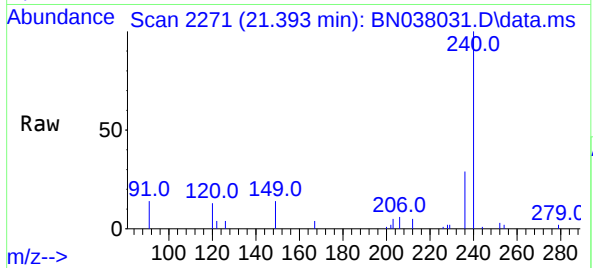




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.393 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038031.D  
Acq: 07 Oct 2025 04:58

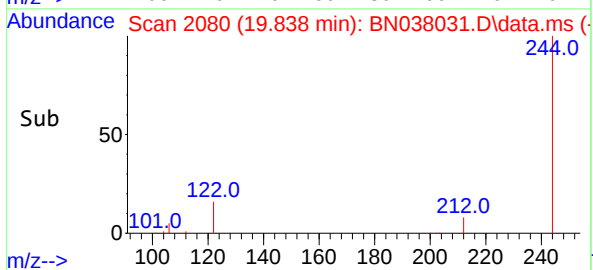
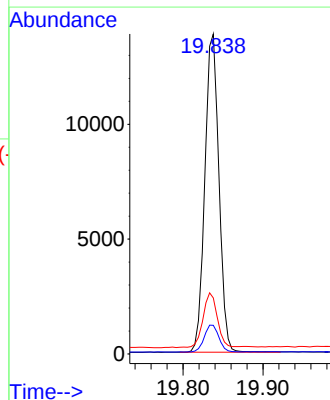
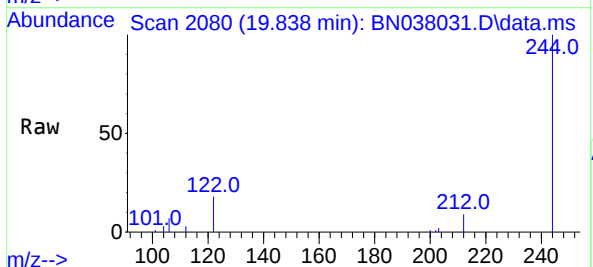
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-DUP-20250923

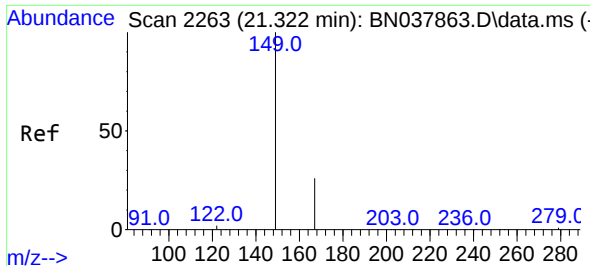
Tgt Ion:240 Resp: 16816  
Ion Ratio Lower Upper  
240 100  
120 13.3 11.4 17.2  
236 29.1 23.0 34.6



#31  
Terphenyl-d14  
Concen: 0.507 ng  
RT: 19.838 min Scan# 2080  
Delta R.T. -0.014 min  
Lab File: BN038031.D  
Acq: 07 Oct 2025 04:58

Tgt Ion:244 Resp: 16981  
Ion Ratio Lower Upper  
244 100  
212 9.0 7.6 11.4  
122 17.5 13.9 20.9

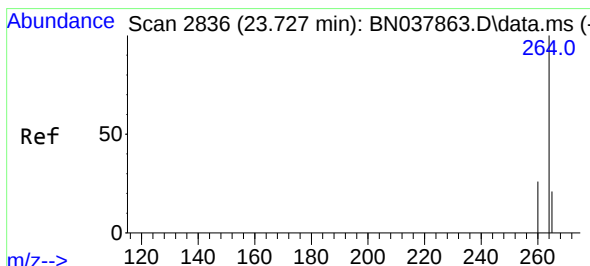
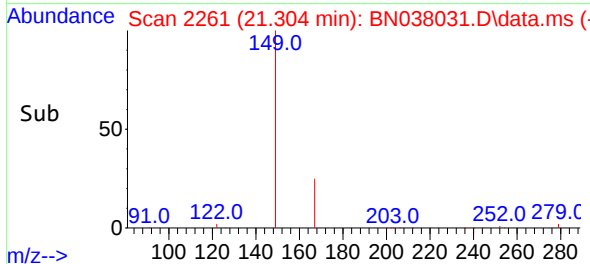
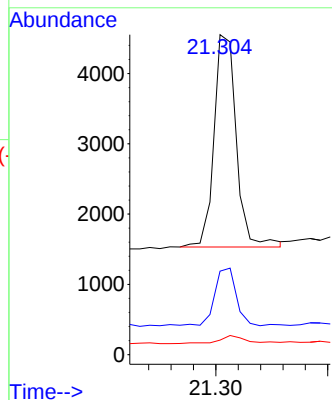
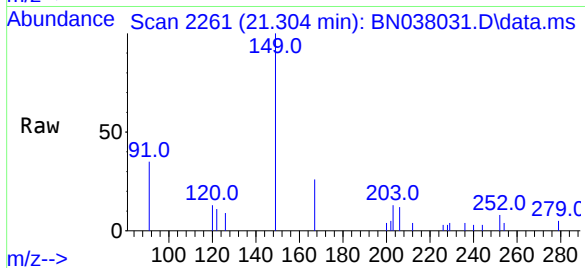




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.180 ng  
RT: 21.304 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN038031.D  
Acq: 07 Oct 2025 04:58

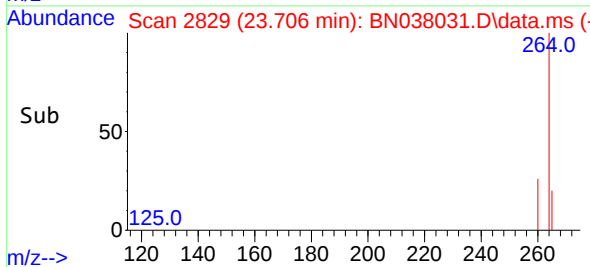
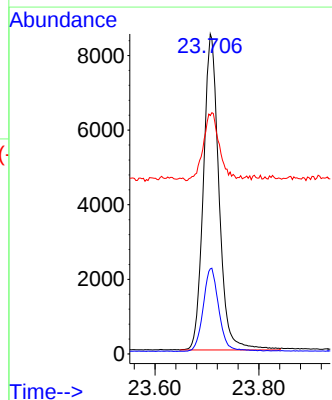
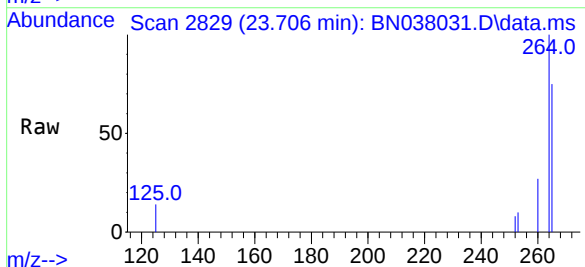
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-DUP-20250923

Tgt Ion:149 Resp: 4177  
Ion Ratio Lower Upper  
149 100  
167 25.7 20.4 30.6  
279 4.8 2.4 3.6#



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.706 min Scan# 2829  
Delta R.T. -0.020 min  
Lab File: BN038031.D  
Acq: 07 Oct 2025 04:58

Tgt Ion:264 Resp: 17577  
Ion Ratio Lower Upper  
264 100  
260 26.6 21.5 32.3  
265 74.5 53.8 80.6



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 09/24/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 09/25/25       |
| Client Sample ID:  | BP-VPB-184-GW-420-422         | SDG No.:        | Q3213          |
| Lab Sample ID:     | Q3213-08                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 950      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 |
| BN038032.D        | 1         | 09/26/25 13:15 | 10/07/25 05:34 | PB169904      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.33  |           | 0.070    | 0.21 | 0.21       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.33  |           | 30 - 150 |      | 83%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.36  |           | 30 - 150 |      | 90%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 55 - 111 |      | 90%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.39  |           | 53 - 106 |      | 97%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.61  | *         | 58 - 132 |      | 151%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 9240  |           | 7.804    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 27700 |           | 10.605   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 15500 |           | 14.452   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 29700 |           | 17.198   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 18000 |           | 21.384   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 14000 |           | 23.704   |      |            |          |

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\BN100625\  
Data File : BN038032.D  
Acq On : 07 Oct 2025 05:34  
Operator : RC/JU  
Sample : Q3213-08  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-420-422

Quant Time: Oct 07 06:00:13 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration

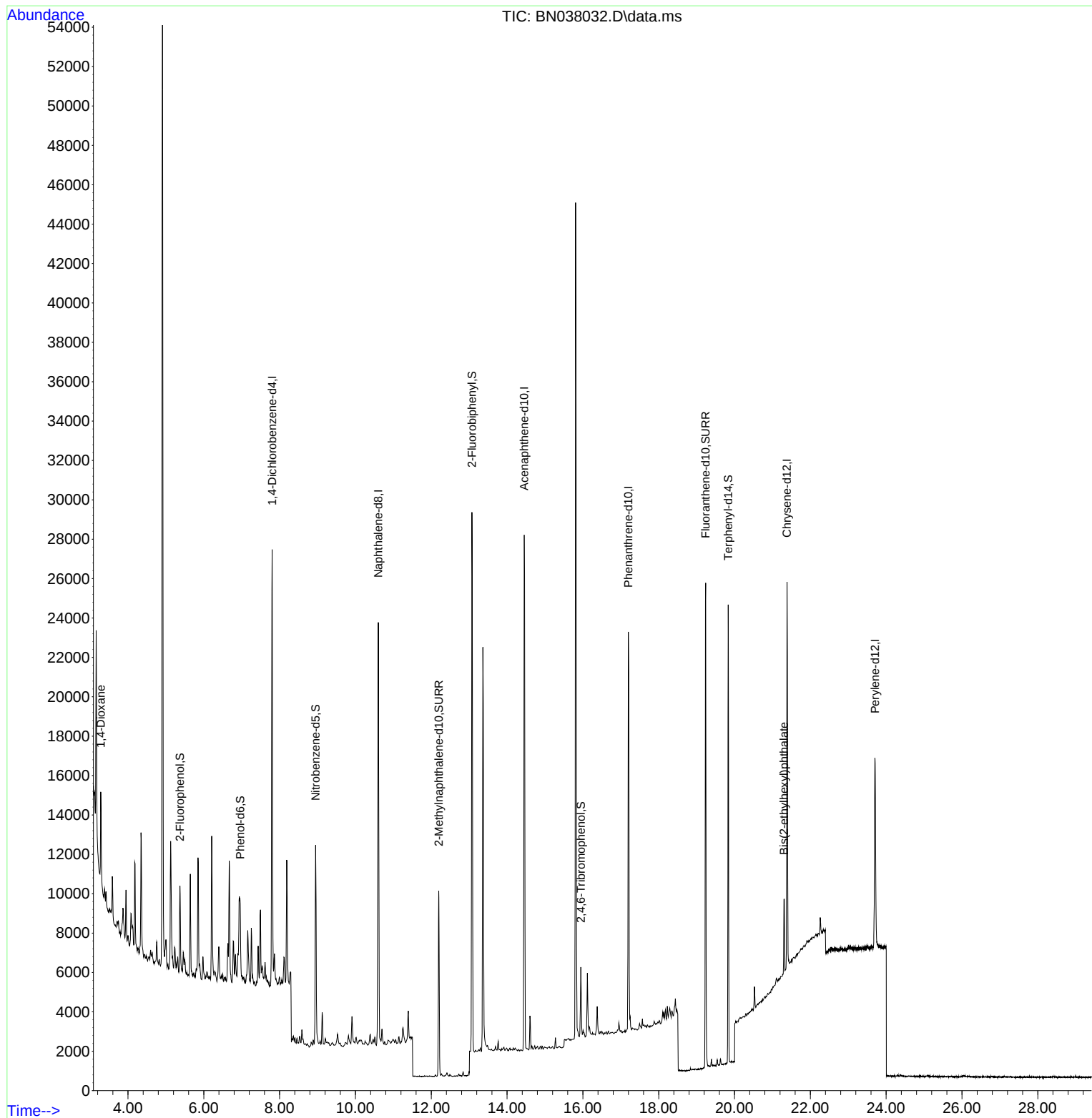
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.804  | 152  | 9243     | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8             | 10.605 | 136  | 27657    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.452 | 164  | 15535    | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 17.198 | 188  | 29744    | 0.400 | ng    | #-0.02   |
| 29) Chrysene-d12              | 21.384 | 240  | 17950    | 0.400 | ng    | #-0.02   |
| 35) Perylene-d12              | 23.704 | 264  | 14042    | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.370  | 112  | 3277     | 0.155 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.959  | 99   | 2715     | 0.098 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.950  | 82   | 7556     | 0.358 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 12.197 | 152  | 12756    | 0.332 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.945 | 330  | 1986     | 0.337 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 13.073 | 172  | 24592    | 0.387 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 19.239 | 212  | 26778    | 0.358 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.833 | 244  | 21685    | 0.606 | ng    | -0.02    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.283  | 88   | 2920     | 0.311 | ng    | # 72     |
| 34) Bis(2-ethylhexyl)phtha... | 21.304 | 149  | 4021     | 0.162 | ng    | # 97     |

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

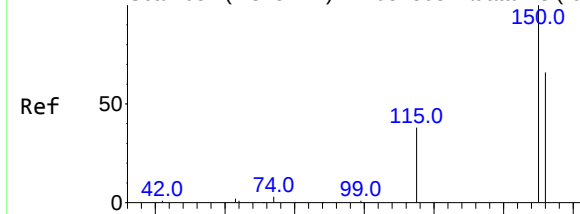
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038032.D  
Acq On : 07 Oct 2025 05:34  
Operator : RC/JU  
Sample : Q3213-08  
Misc :  
ALS Vial : 32 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-420-422

Quant Time: Oct 07 06:00:13 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 6

Delta R.T. -0.021 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

Instrument :

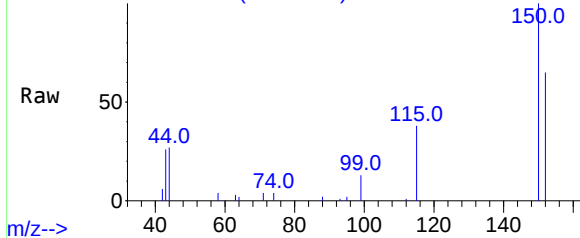
BNA\_N

ClientSampleId :

BP-VPB-184-GW-420-422

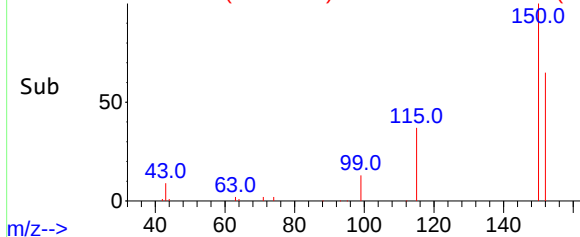
m/z--&gt;

Abundance Scan 654 (7.804 min): BN038032.D\data.ms



m/z--&gt;

Abundance Scan 654 (7.804 min): BN038032.D\data.ms (-62



m/z--&gt;

Tgt Ion:152 Resp: 9243

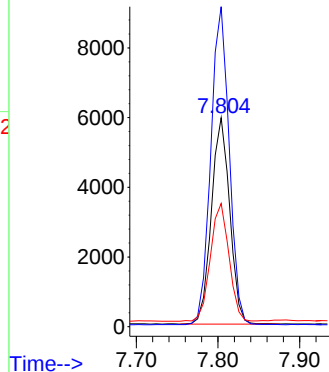
Ion Ratio Lower Upper

152 100

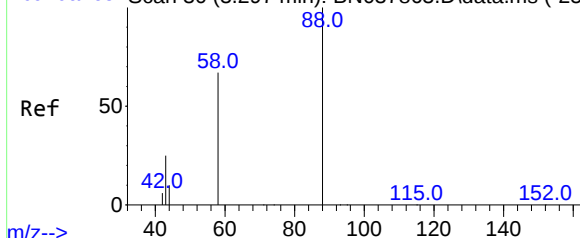
150 153.2 121.0 181.4

115 59.0 47.4 71.0

Abundance

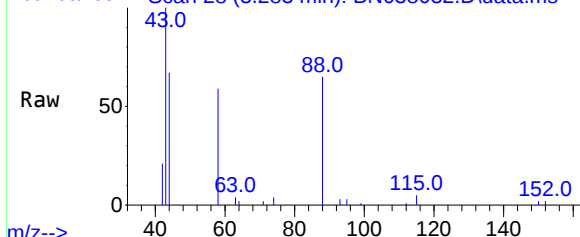


Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



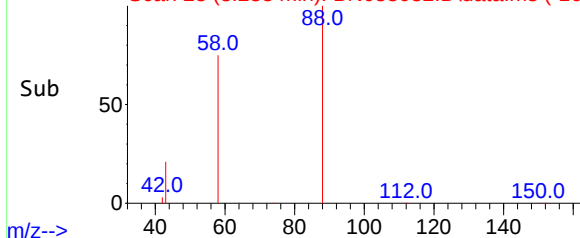
m/z--&gt;

Abundance Scan 28 (3.283 min): BN038032.D\data.ms



m/z--&gt;

Abundance Scan 28 (3.283 min): BN038032.D\data.ms (-16)



m/z--&gt;

#2

1,4-Dioxane

Concen: 0.311 ng

RT: 3.283 min Scan# 28

Delta R.T. -0.014 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

Tgt Ion: 88 Resp: 2920

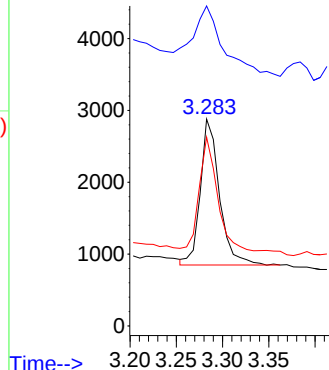
Ion Ratio Lower Upper

88 100

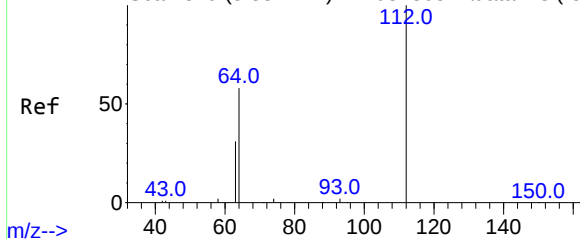
43 83.2 26.6 39.8#

58 74.3 58.9 88.3

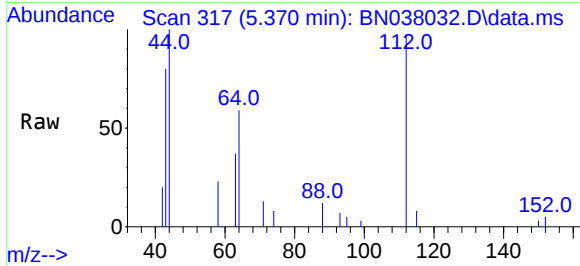
Abundance



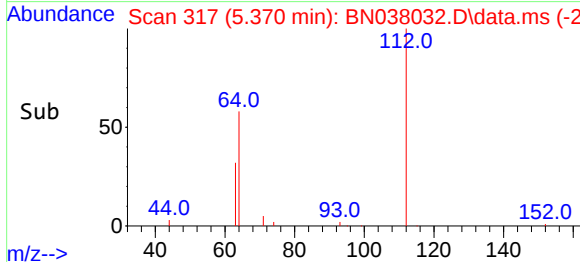
Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31



m/z--&gt; Scan 317 (5.370 min): BN038032.D\data.ms



m/z--&gt; Abundance Scan 317 (5.370 min): BN038032.D\data.ms (-29



m/z--&gt;

#4

2-Fluorophenol

Concen: 0.155 ng

RT: 5.370 min Scan# 31

Delta R.T. -0.014 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-184-GW-420-422

Tgt Ion:112 Resp: 3277

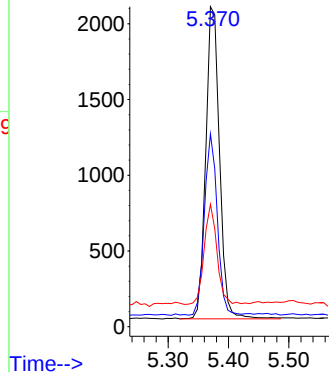
Ion Ratio Lower Upper

112 100

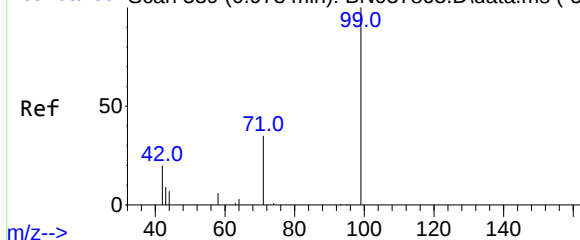
64 54.3 44.6 66.8

63 30.5 24.9 37.3

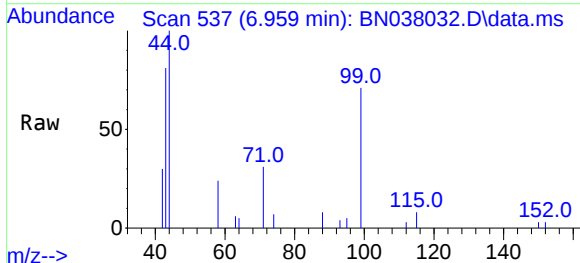
Abundance



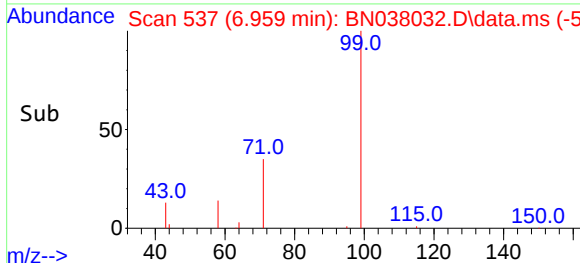
Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



m/z--&gt; Scan 537 (6.959 min): BN038032.D\data.ms



m/z--&gt; Abundance Scan 537 (6.959 min): BN038032.D\data.ms (-51



m/z--&gt;

#5

Phenol-d6

Concen: 0.098 ng

RT: 6.959 min Scan# 537

Delta R.T. -0.014 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

Tgt Ion: 99 Resp: 2715

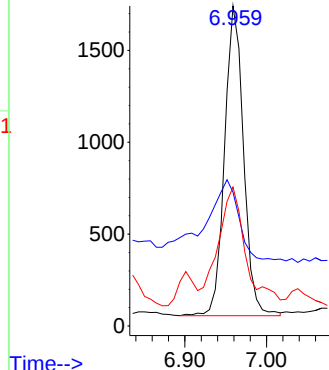
Ion Ratio Lower Upper

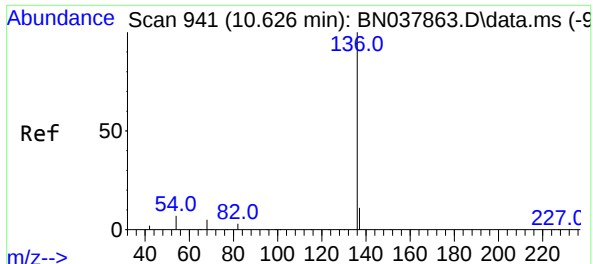
99 100

42 52.9 17.2 25.8#

71 54.8 27.3 40.9#

Abundance

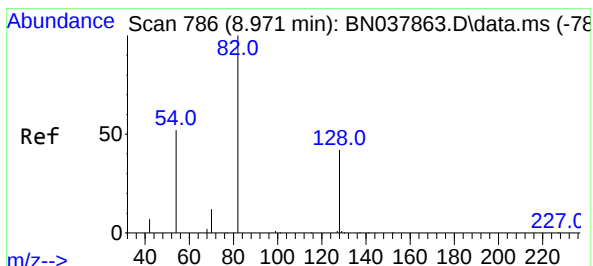
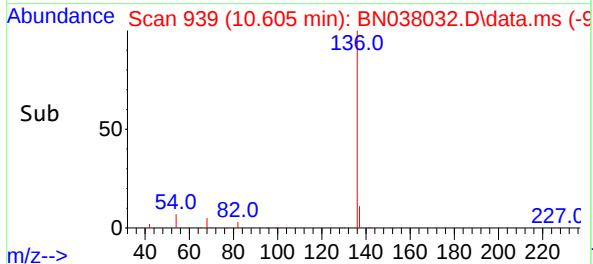
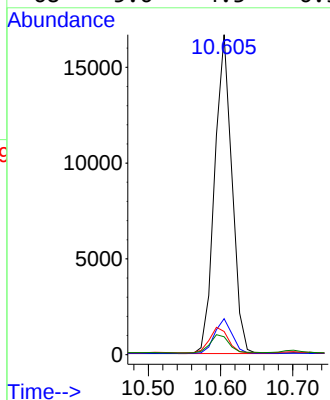
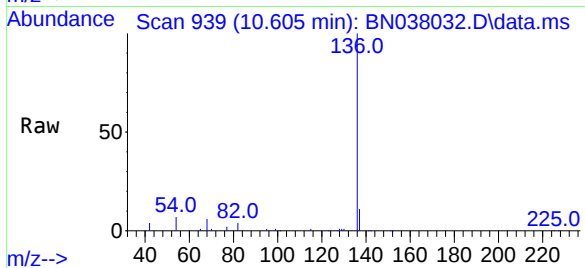




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.605 min Scan# 91  
Delta R.T. -0.021 min  
Lab File: BN038032.D  
Acq: 07 Oct 2025 05:34

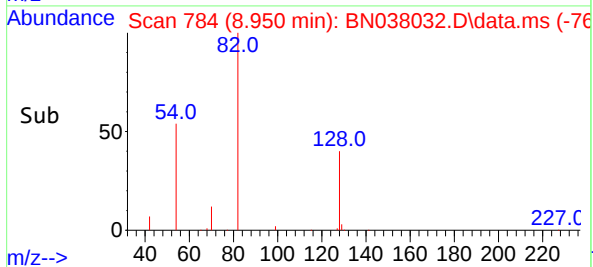
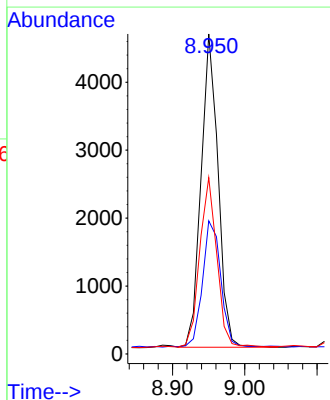
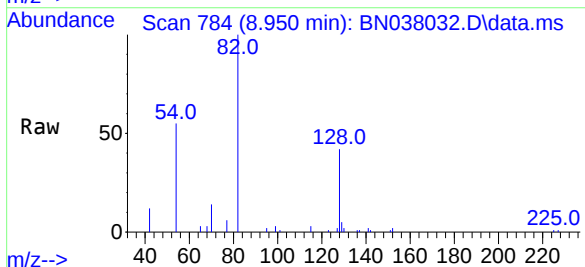
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-420-422

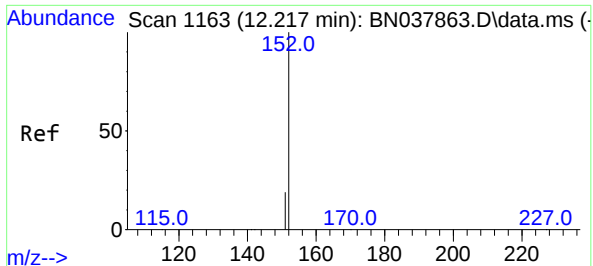
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 27657 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 9.0   | 13.4  |
| 54       | 7.2   | 5.8   | 8.8   |
| 68       | 5.6   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.358 ng  
RT: 8.950 min Scan# 784  
Delta R.T. -0.021 min  
Lab File: BN038032.D  
Acq: 07 Oct 2025 05:34

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 7556  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 41.6  | 34.8  | 52.2  |
| 54       | 55.1  | 42.2  | 63.2  |

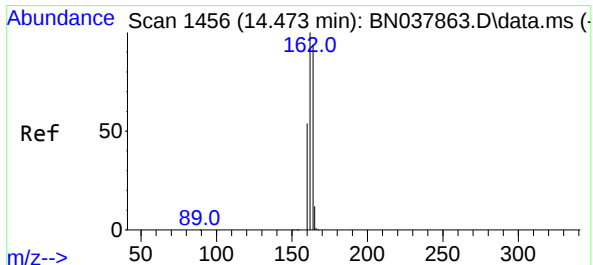
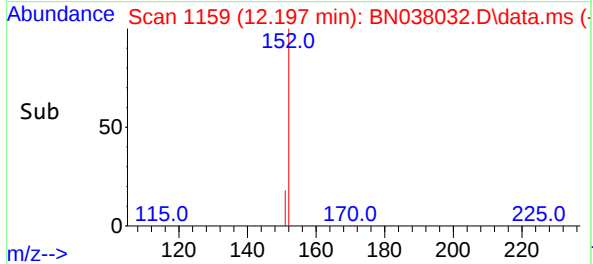
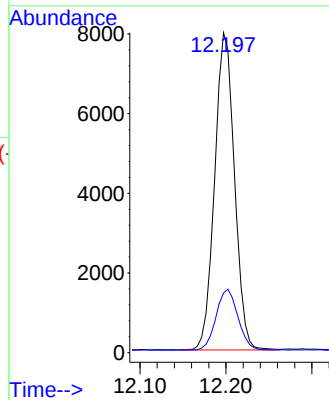
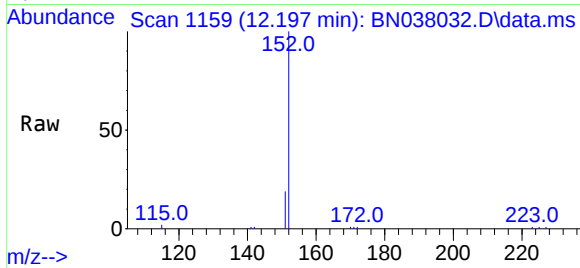




#11  
2-Methylnaphthalene-d10  
Concen: 0.332 ng  
RT: 12.197 min Scan# 1163  
Delta R.T. -0.020 min  
Lab File: BN038032.D  
Acq: 07 Oct 2025 05:34

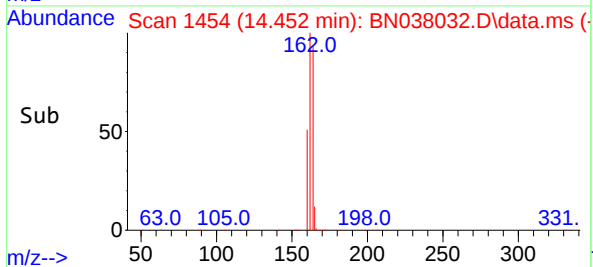
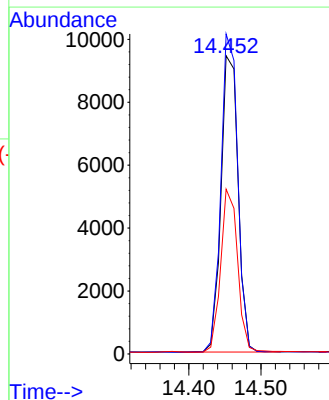
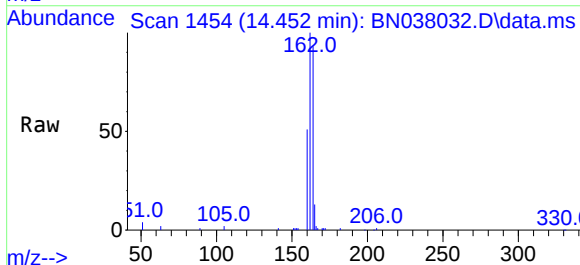
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-420-422

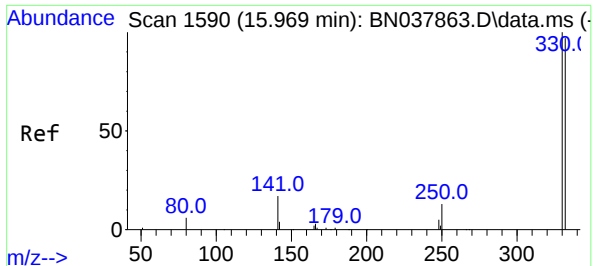
Tgt Ion:152 Resp: 12756  
Ion Ratio Lower Upper  
152 100  
151 21.2 17.4 26.2



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.452 min Scan# 1454  
Delta R.T. -0.021 min  
Lab File: BN038032.D  
Acq: 07 Oct 2025 05:34

Tgt Ion:164 Resp: 15535  
Ion Ratio Lower Upper  
164 100  
162 107.3 84.8 127.2  
160 55.3 46.1 69.1





#14

2,4,6-Tribromophenol

Concen: 0.337 ng

RT: 15.945 min Scan# 1

Delta R.T. -0.024 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-184-GW-420-422

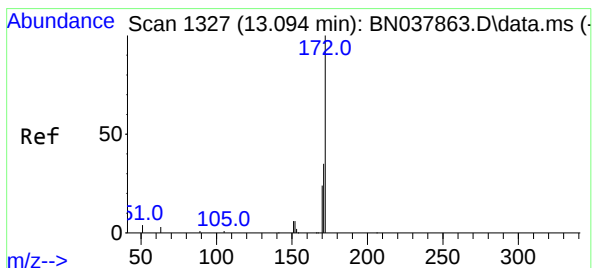
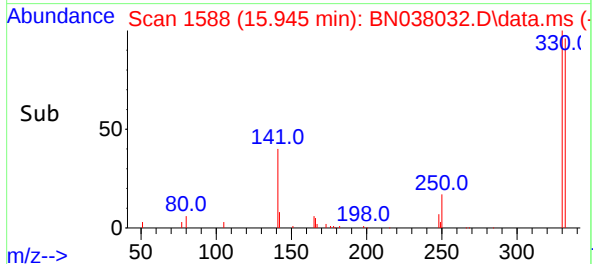
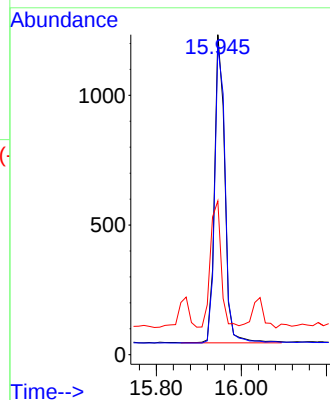
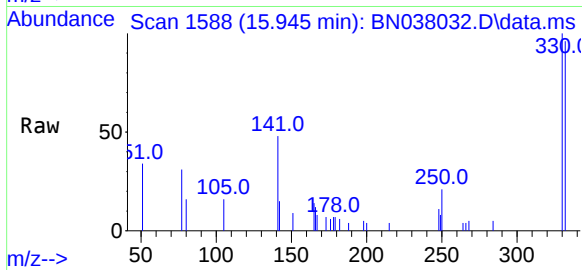
Tgt Ion:330 Resp: 1986

Ion Ratio Lower Upper

330 100

332 99.0 77.2 115.8

141 43.5 37.2 55.8



#15

2-Fluorobiphenyl

Concen: 0.387 ng

RT: 13.073 min Scan# 1325

Delta R.T. -0.021 min

Lab File: BN038032.D

Acq: 07 Oct 2025 05:34

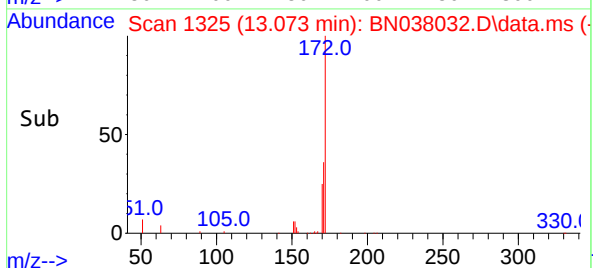
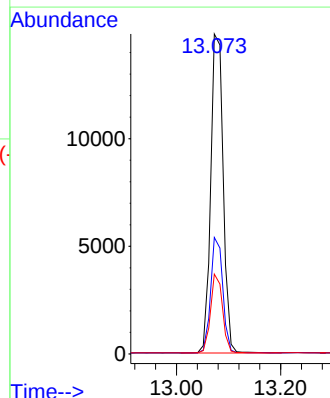
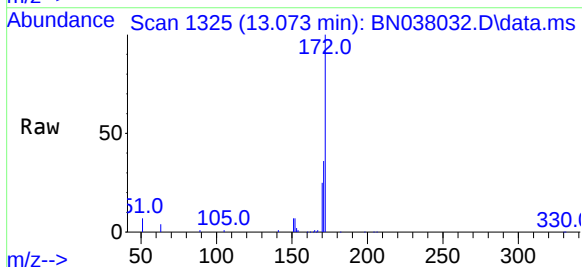
Tgt Ion:172 Resp: 24592

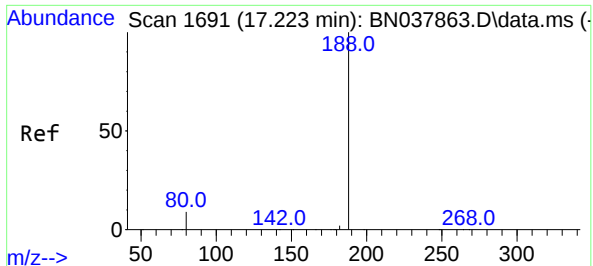
Ion Ratio Lower Upper

172 100

171 36.4 28.6 43.0

170 24.9 19.7 29.5

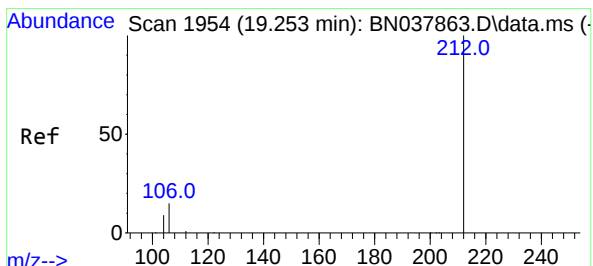
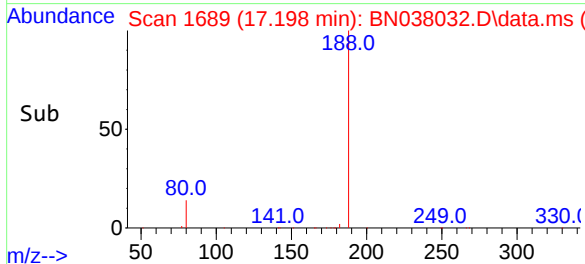
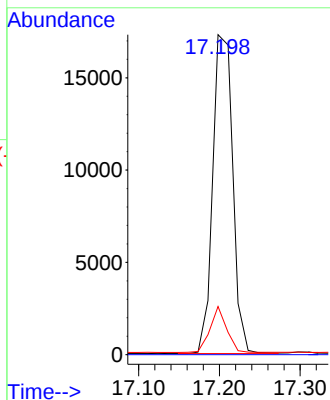
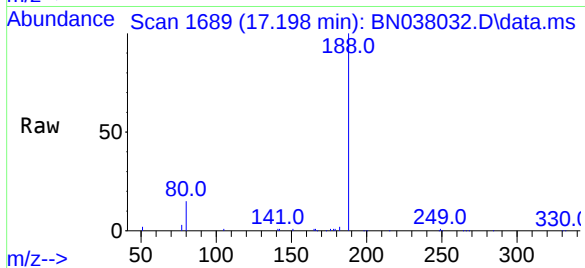




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.198 min Scan# 1689  
Delta R.T. -0.025 min  
Lab File: BN038032.D  
Acq: 07 Oct 2025 05:34

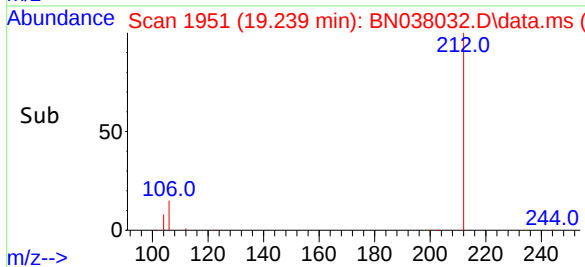
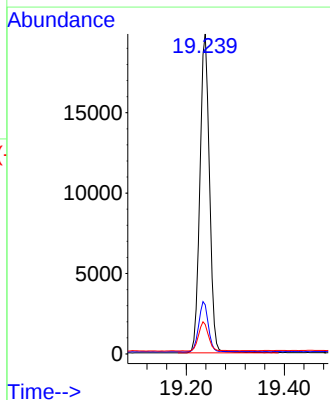
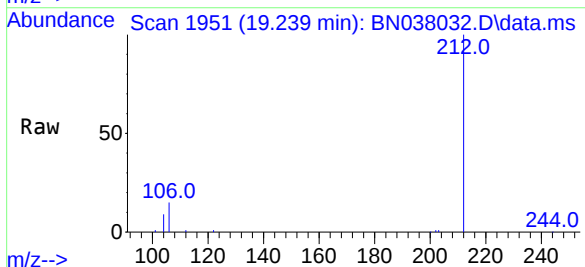
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-420-422

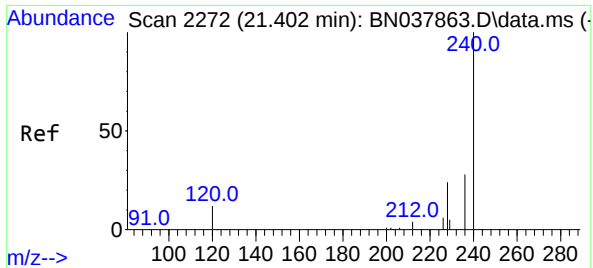
Tgt Ion:188 Resp: 29744  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 15.1 7.6 11.4#



#27  
Fluoranthene-d10  
Concen: 0.358 ng  
RT: 19.239 min Scan# 1951  
Delta R.T. -0.014 min  
Lab File: BN038032.D  
Acq: 07 Oct 2025 05:34

Tgt Ion:212 Resp: 26778  
Ion Ratio Lower Upper  
212 100  
106 15.7 12.6 19.0  
104 9.3 7.4 11.0

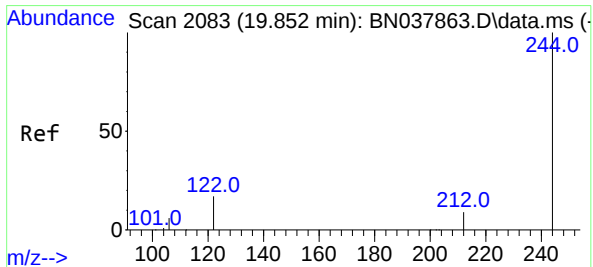
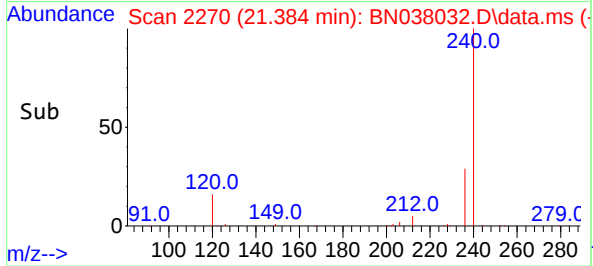
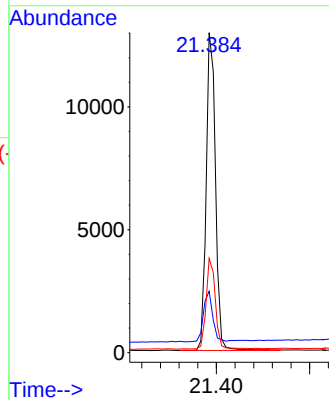
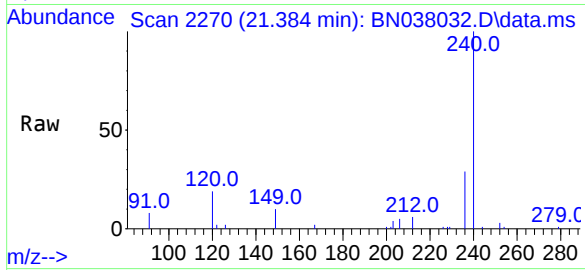




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.384 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN038032.D  
Acq: 07 Oct 2025 05:34

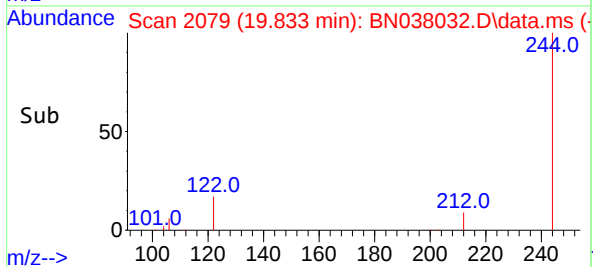
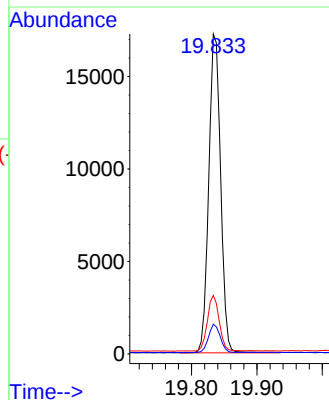
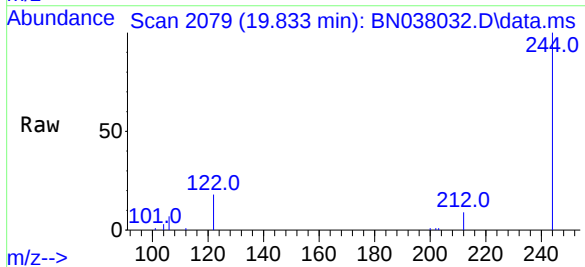
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-420-422

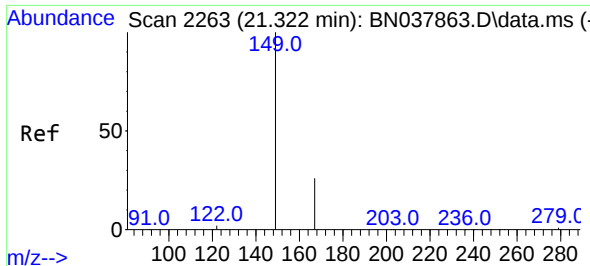
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 19.2  | 11.4  | 17.2# |
| 236     | 29.5  | 23.0  | 34.6  |



#31  
Terphenyl-d14  
Concen: 0.606 ng  
RT: 19.833 min Scan# 2079  
Delta R.T. -0.019 min  
Lab File: BN038032.D  
Acq: 07 Oct 2025 05:34

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.3   | 7.6   | 11.4  |
| 122     | 18.3  | 13.9  | 20.9  |

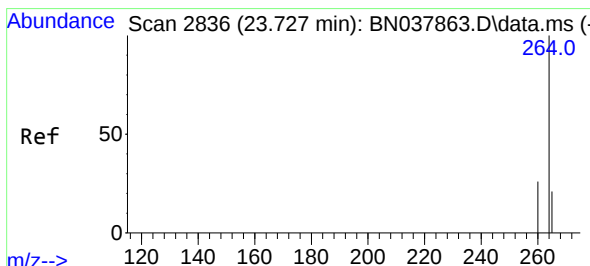
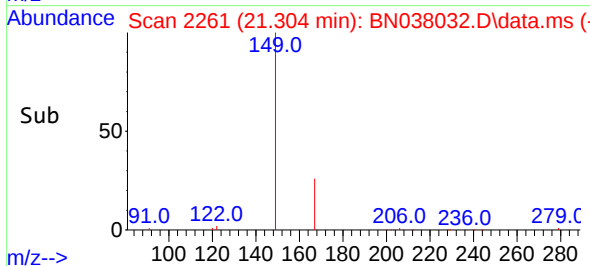
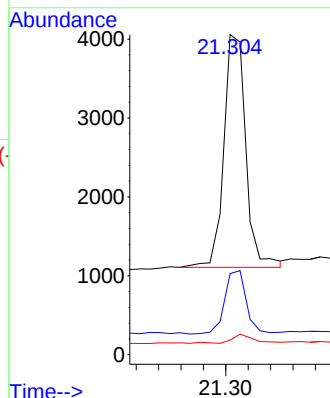
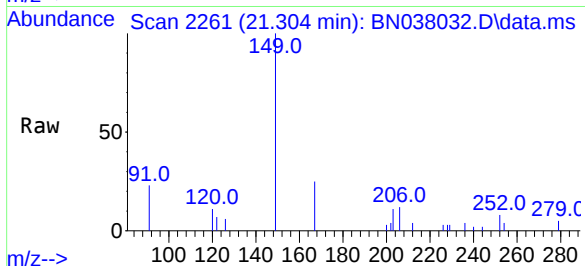




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.162 ng  
RT: 21.304 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN038032.D  
Acq: 07 Oct 2025 05:34

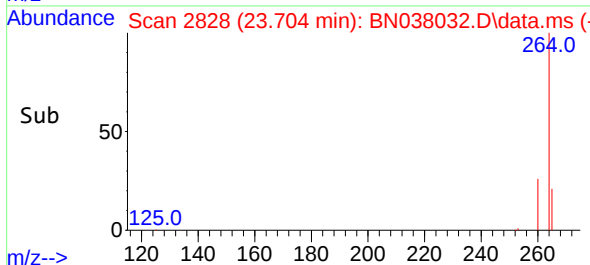
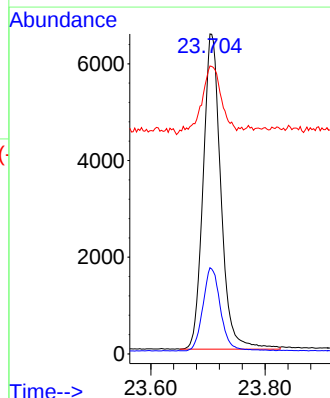
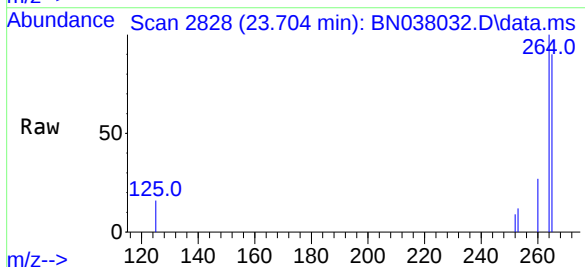
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-GW-420-422

Tgt Ion:149 Resp: 4021  
Ion Ratio Lower Upper  
149 100  
167 27.1 20.4 30.6  
279 4.0 2.4 3.6#



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.704 min Scan# 2828  
Delta R.T. -0.023 min  
Lab File: BN038032.D  
Acq: 07 Oct 2025 05:34

Tgt Ion:264 Resp: 14042  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.5 32.3  
265 90.0 53.8 80.6#



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 09/23/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 09/25/25       |
| Client Sample ID:  | BP-VPB-184-EB-20250923        | SDG No.:        | Q3213          |
| Lab Sample ID:     | Q3213-10                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 730      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 |
| BN038033.D        | 1         | 09/26/25 13:15 | 10/07/25 06:10 | PB169904      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.30  |           | 0.090    | 0.27 | 0.27       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.29  |           | 30 - 150 |      | 72%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.33  |           | 30 - 150 |      | 83%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.33  |           | 55 - 111 |      | 82%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.34  |           | 53 - 106 |      | 85%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.59  | *         | 58 - 132 |      | 147%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 9570  |           | 7.803    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 28400 |           | 10.605   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 15500 |           | 14.462   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 28500 |           | 17.21    |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 16900 |           | 21.393   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 14100 |           | 23.709   |      |            |          |

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\BN100625\  
Data File : BN038033.D  
Acq On : 07 Oct 2025 06:10  
Operator : RC/JU  
Sample : Q3213-10  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-EB-20250923

Quant Time: Oct 07 08:09:59 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration

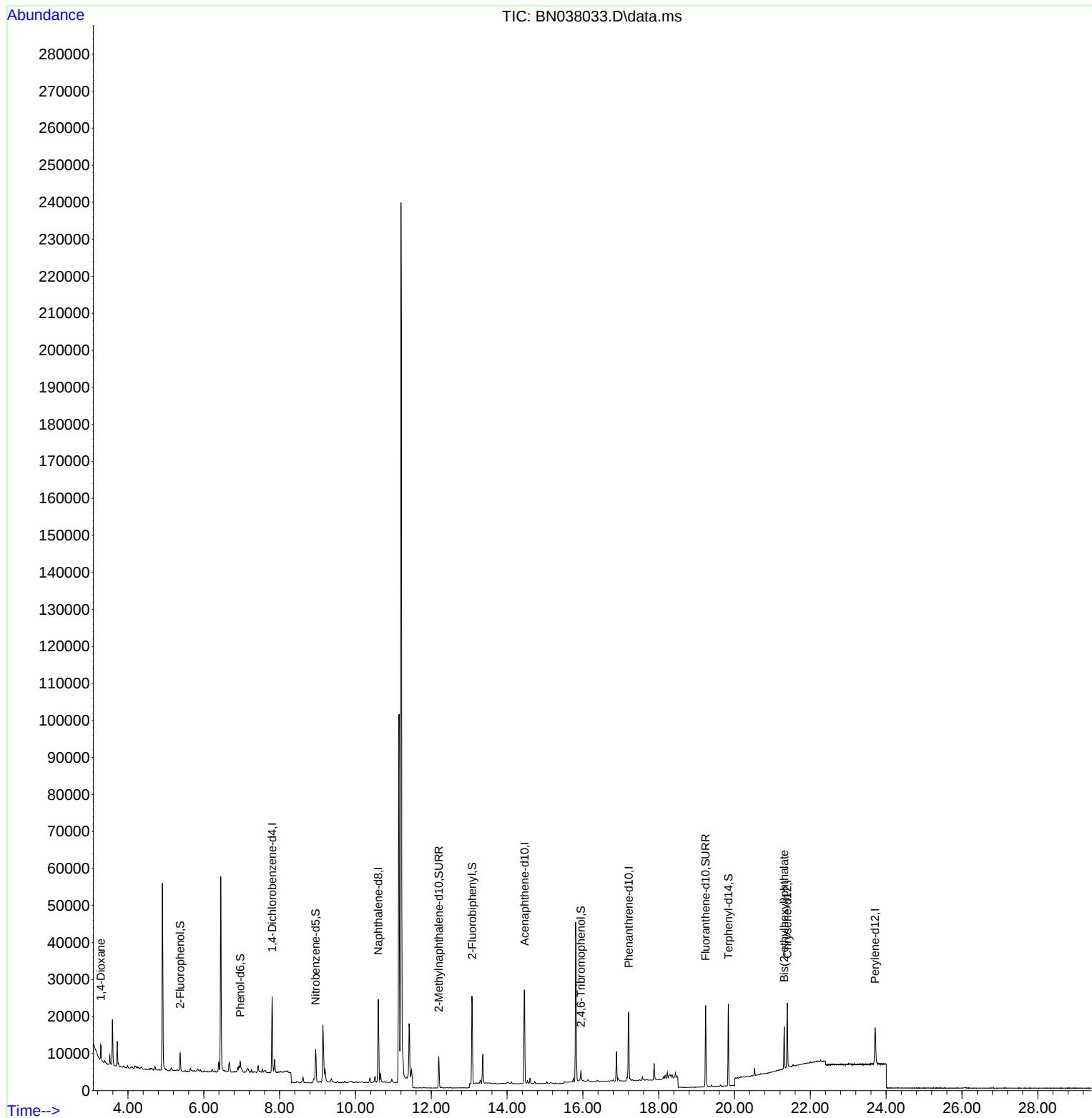
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.803  | 152  | 9567     | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8             | 10.605 | 136  | 28389    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.462 | 164  | 15544    | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.210 | 188  | 28505    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.393 | 240  | 16926    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.709 | 264  | 14124    | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.377  | 112  | 2884     | 0.132 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.958  | 99   | 2368     | 0.083 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.950  | 82   | 7124     | 0.329 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 12.197 | 152  | 11261    | 0.286 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.944 | 330  | 1625     | 0.276 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 13.083 | 172  | 21579    | 0.339 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.238 | 212  | 23774    | 0.332 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.837 | 244  | 19785    | 0.587 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.282  | 88   | 2145     | 0.221 | ng    | # 52     |
| 34) Bis(2-ethylhexyl)phtha... | 21.312 | 149  | 10637    | 0.455 | ng    | 99       |

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

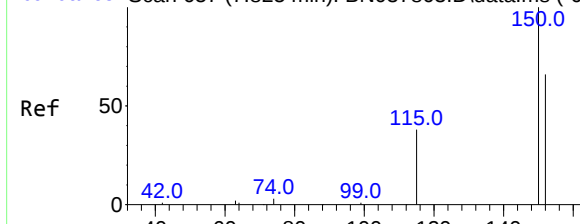
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038033.D  
Acq On : 07 Oct 2025 06:10  
Operator : RC/JU  
Sample : Q3213-10  
Misc :  
ALS Vial : 33 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-EB-20250923

Quant Time: Oct 07 08:09:59 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.803 min Scan# 61

Delta R.T. -0.022 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

Instrument :

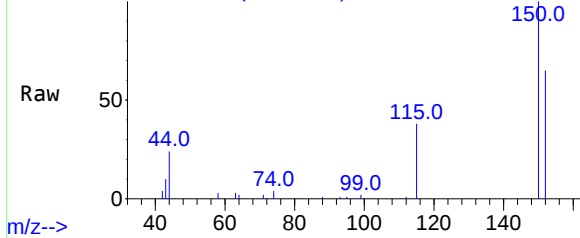
BNA\_N

ClientSampleId :

BP-VPB-184-EB-20250923

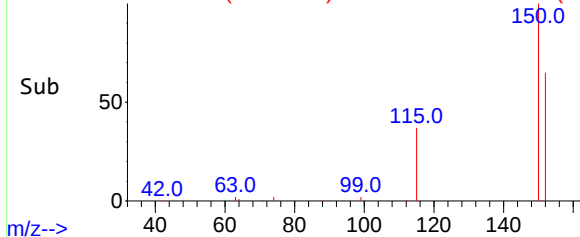
m/z--&gt;

Abundance Scan 654 (7.803 min): BN038033.D\data.ms



m/z--&gt;

Abundance Scan 654 (7.803 min): BN038033.D\data.ms (-62



m/z--&gt;

Tgt Ion:152 Resp: 9567

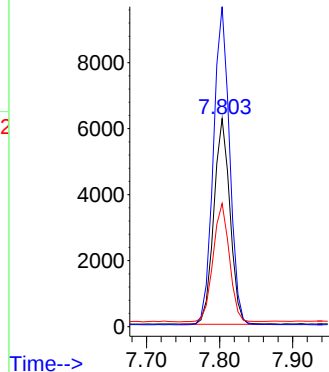
Ion Ratio Lower Upper

152 100

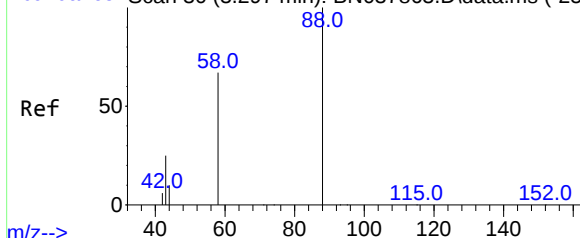
150 153.7 121.0 181.4

115 59.2 47.4 71.0

Abundance

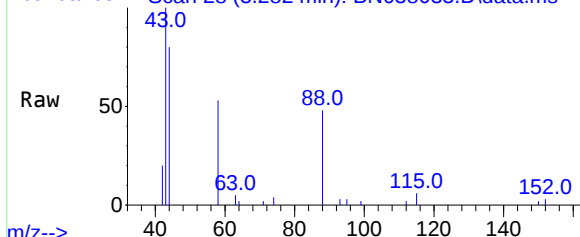


Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



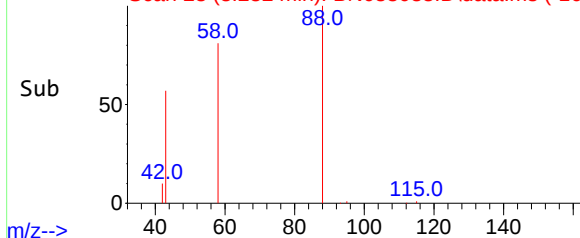
m/z--&gt;

Abundance Scan 28 (3.282 min): BN038033.D\data.ms



m/z--&gt;

Abundance Scan 28 (3.282 min): BN038033.D\data.ms (-16)



m/z--&gt;

#2

1,4-Dioxane

Concen: 0.221 ng

RT: 3.282 min Scan# 28

Delta R.T. -0.015 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

Tgt Ion: 88 Resp: 2145

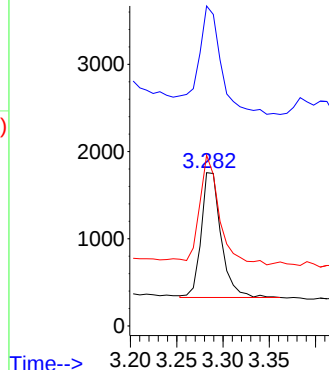
Ion Ratio Lower Upper

88 100

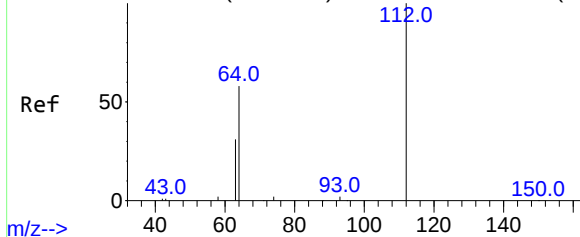
43 99.0 26.6 39.8#

58 87.8 58.9 88.3

Abundance



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31



#4

2-Fluorophenol

Concen: 0.132 ng

RT: 5.377 min Scan# 31

Delta R.T. -0.008 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-184-EB-20250923

Tgt Ion:112 Resp: 2884

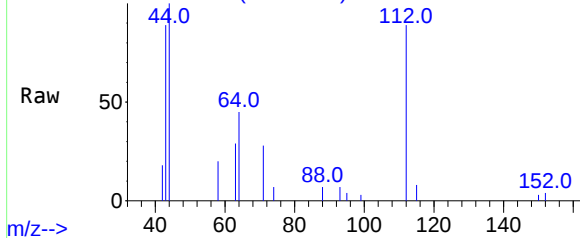
Ion Ratio Lower Upper

112 100

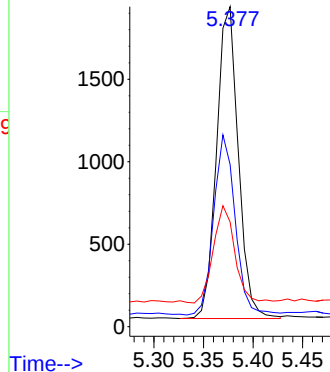
64 57.3 44.6 66.8

63 31.0 24.9 37.3

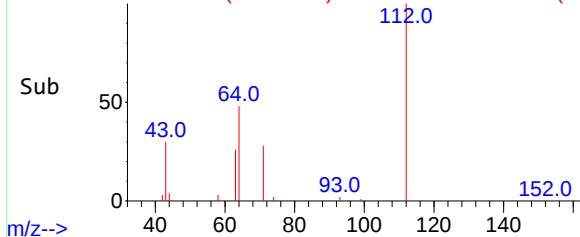
Abundance Scan 318 (5.377 min): BN038033.D\data.ms



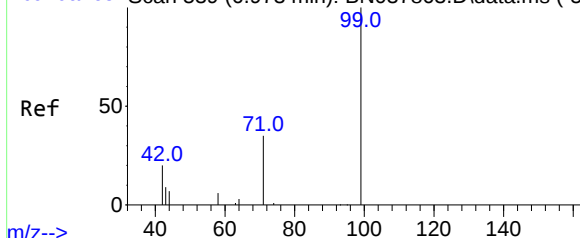
Abundance



Abundance Scan 318 (5.377 min): BN038033.D\data.ms (-29



Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



#5

Phenol-d6

Concen: 0.083 ng

RT: 6.958 min Scan# 537

Delta R.T. -0.015 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

Tgt Ion: 99 Resp: 2368

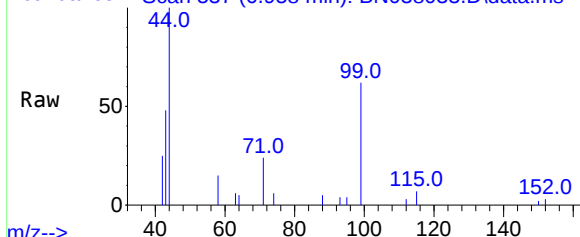
Ion Ratio Lower Upper

99 100

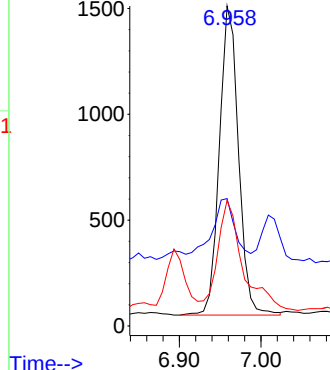
42 26.5 17.2 25.8#

71 47.1 27.3 40.9#

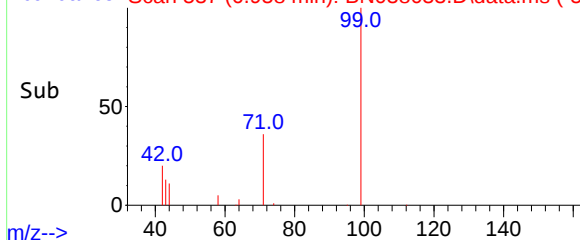
Abundance Scan 537 (6.958 min): BN038033.D\data.ms

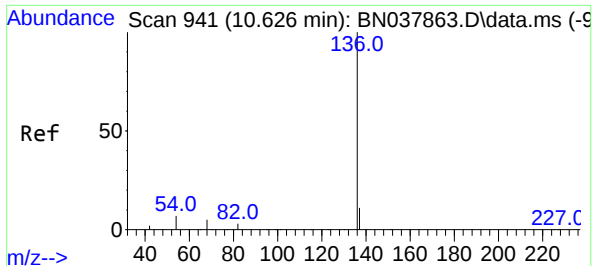


Abundance



Abundance Scan 537 (6.958 min): BN038033.D\data.ms (-51



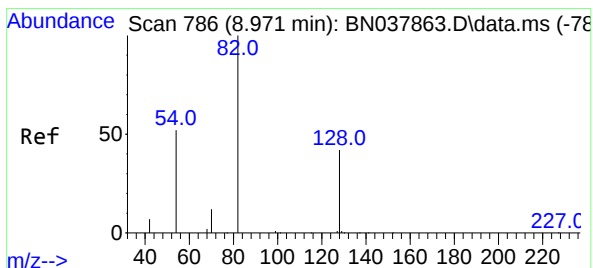
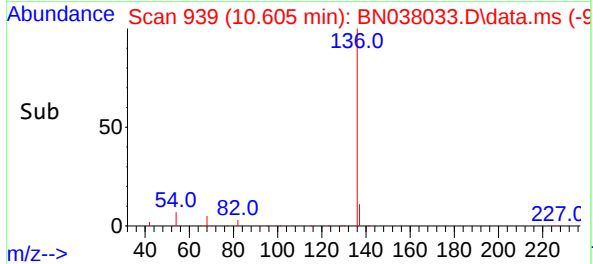
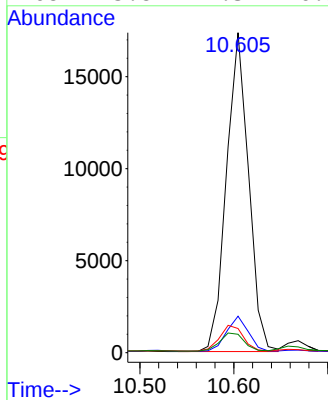
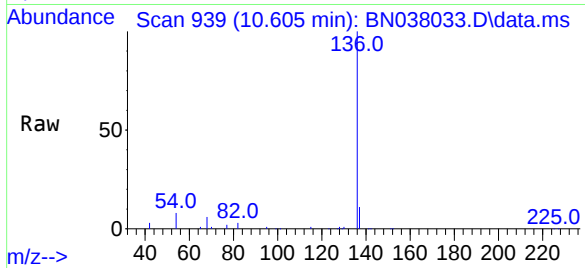


#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.605 min Scan# 91  
Delta R.T. -0.022 min  
Lab File: BN038033.D  
Acq: 07 Oct 2025 06:10

Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-EB-20250923

Tgt Ion:136 Resp: 28389

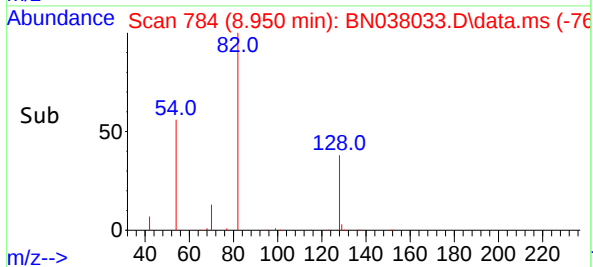
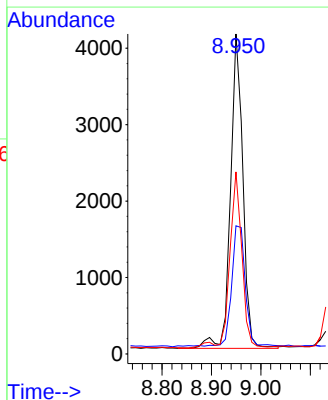
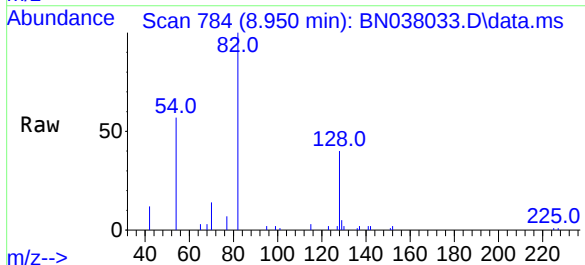
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.4  | 9.0   | 13.4  |
| 54  | 7.5   | 5.8   | 8.8   |
| 68  | 5.8   | 4.3   | 6.5   |

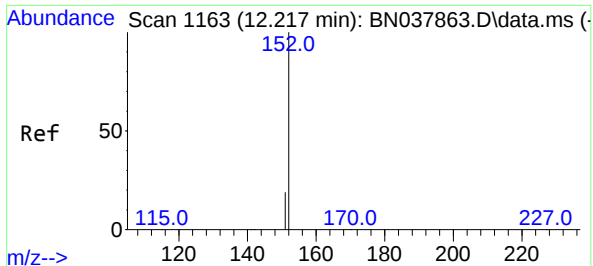


#8  
Nitrobenzene-d5  
Concen: 0.329 ng  
RT: 8.950 min Scan# 784  
Delta R.T. -0.022 min  
Lab File: BN038033.D  
Acq: 07 Oct 2025 06:10

Tgt Ion: 82 Resp: 7124

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 82  | 100   |       |       |
| 128 | 40.1  | 34.8  | 52.2  |
| 54  | 56.9  | 42.2  | 63.2  |

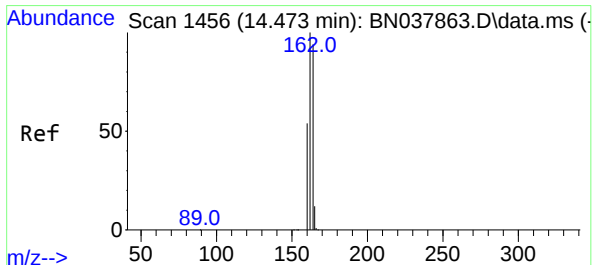
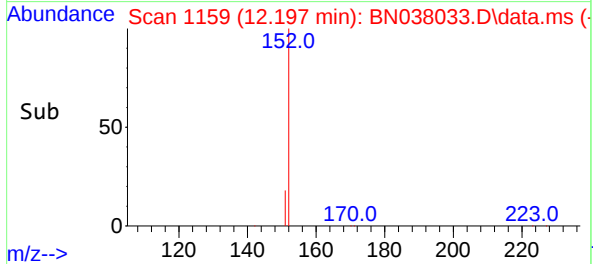
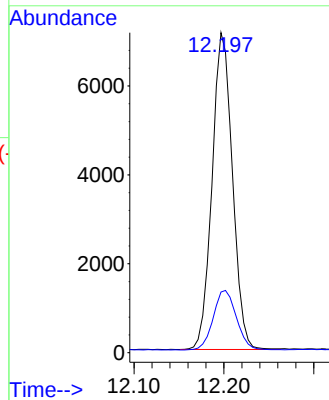
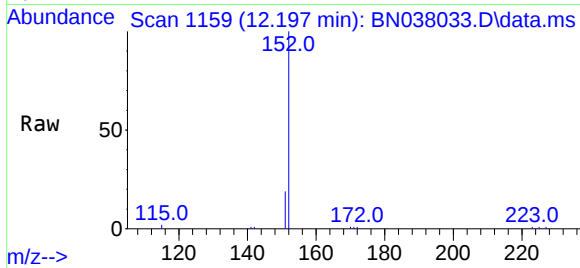




#11  
2-Methylnaphthalene-d10  
Concen: 0.286 ng  
RT: 12.197 min Scan# 1161  
Delta R.T. -0.021 min  
Lab File: BN038033.D  
Acq: 07 Oct 2025 06:10

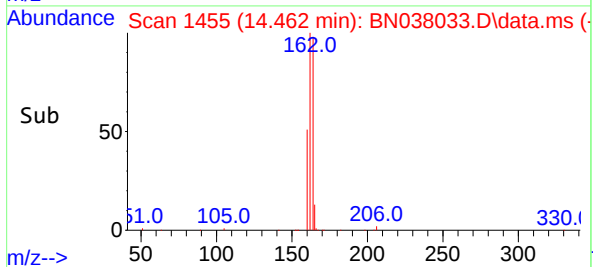
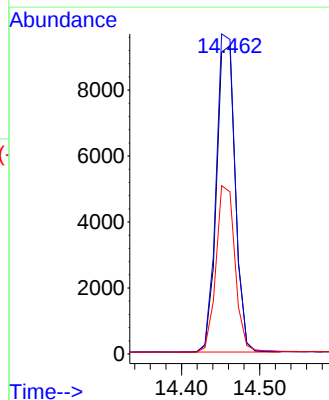
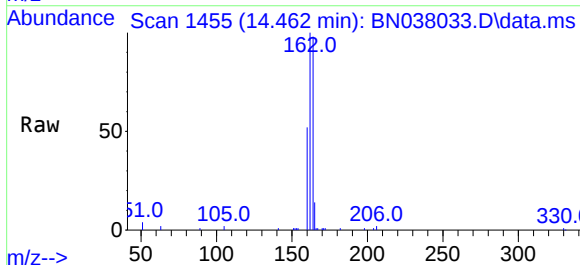
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-EB-20250923

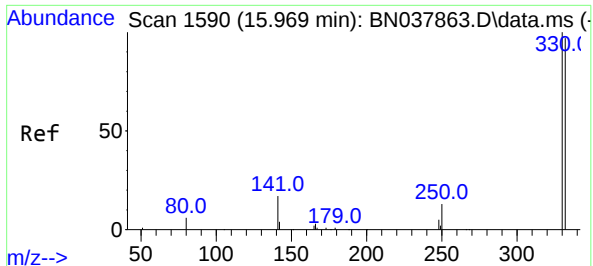
Tgt Ion:152 Resp: 11261  
Ion Ratio Lower Upper  
152 100  
151 21.4 17.4 26.2



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.462 min Scan# 1455  
Delta R.T. -0.011 min  
Lab File: BN038033.D  
Acq: 07 Oct 2025 06:10

Tgt Ion:164 Resp: 15544  
Ion Ratio Lower Upper  
164 100  
162 102.1 84.8 127.2  
160 52.6 46.1 69.1

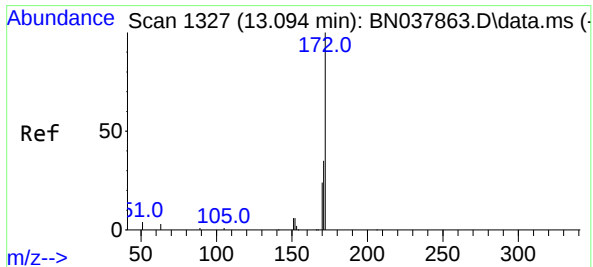
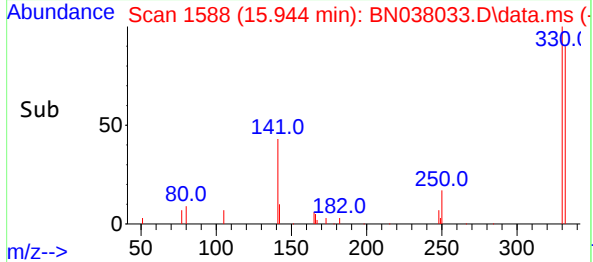
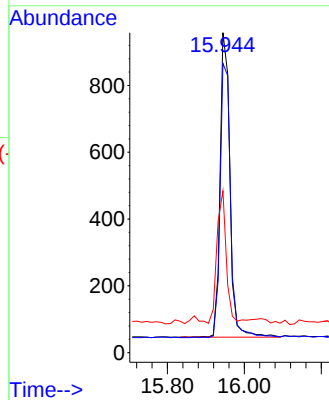
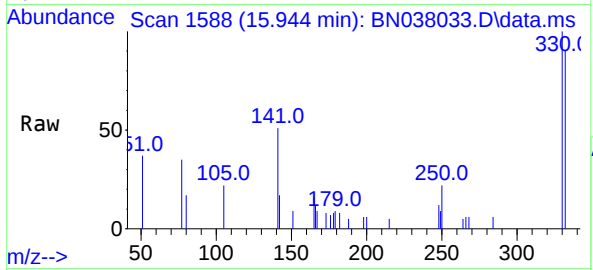




#14  
2,4,6-Tribromophenol  
Concen: 0.276 ng  
RT: 15.944 min Scan# 1588  
Delta R.T. -0.025 min  
Lab File: BN038033.D  
Acq: 07 Oct 2025 06:10

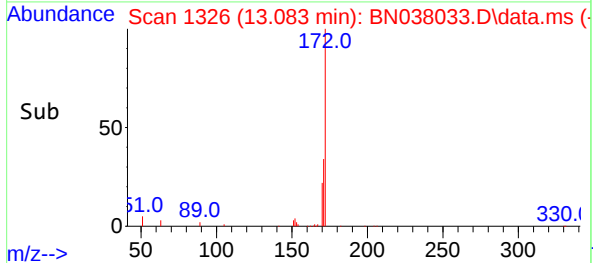
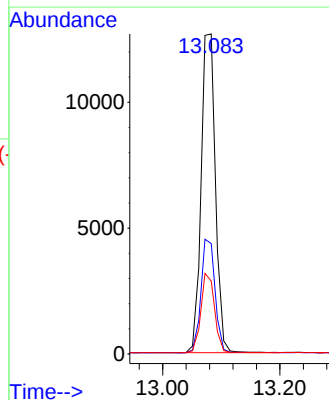
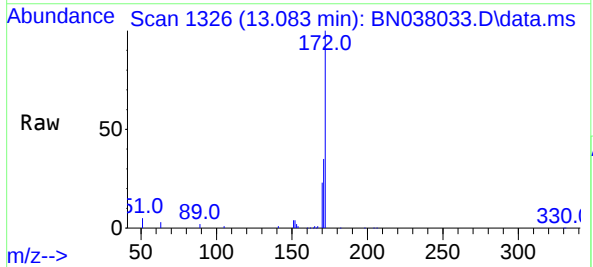
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-EB-20250923

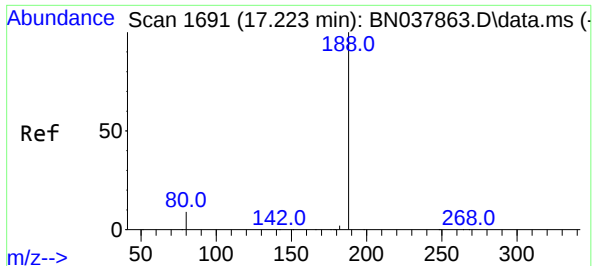
Tgt Ion:330 Resp: 1625  
Ion Ratio Lower Upper  
330 100  
332 95.4 77.2 115.8  
141 41.8 37.2 55.8



#15  
2-Fluorobiphenyl  
Concen: 0.339 ng  
RT: 13.083 min Scan# 1326  
Delta R.T. -0.011 min  
Lab File: BN038033.D  
Acq: 07 Oct 2025 06:10

Tgt Ion:172 Resp: 21579  
Ion Ratio Lower Upper  
172 100  
171 34.5 28.6 43.0  
170 22.8 19.7 29.5





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

Instrument :

BNA\_N

ClientSampleId :

BP-VPB-184-EB-20250923

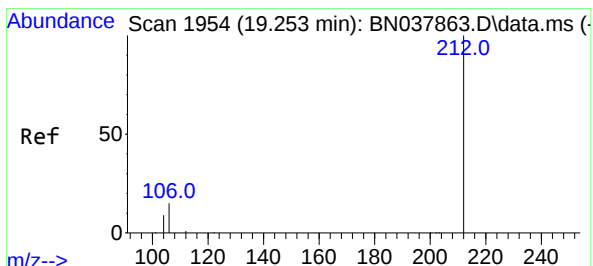
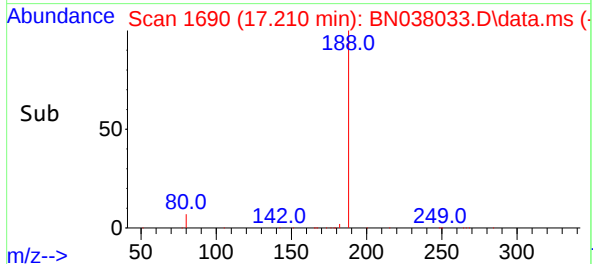
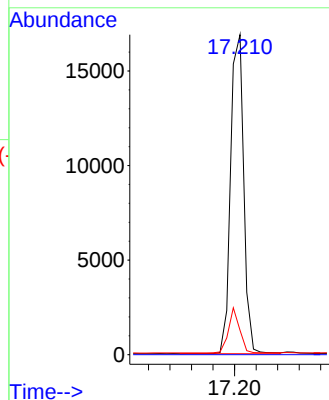
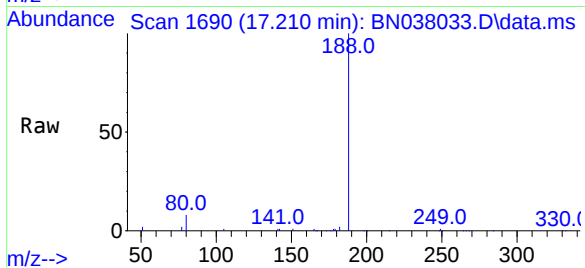
Tgt Ion:188 Resp: 28505

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.6 7.6 11.4#



#27

Fluoranthene-d10

Concen: 0.332 ng

RT: 19.238 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038033.D

Acq: 07 Oct 2025 06:10

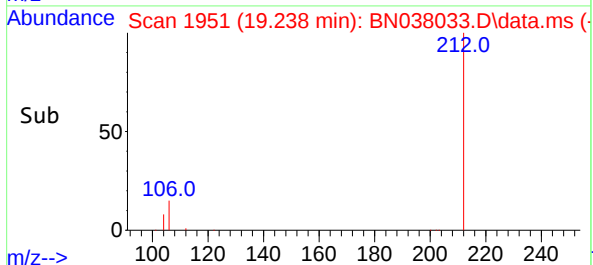
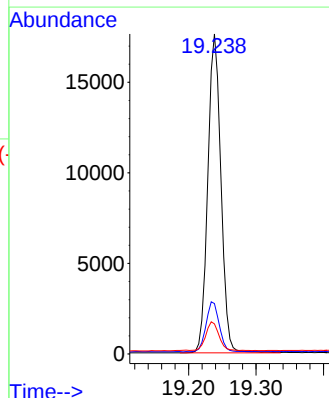
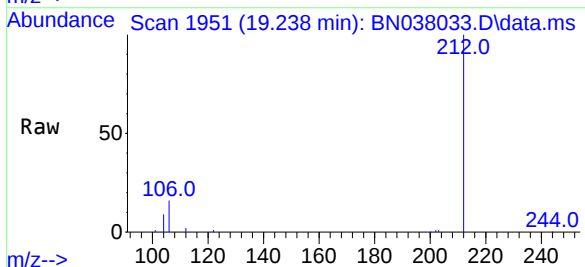
Tgt Ion:212 Resp: 23774

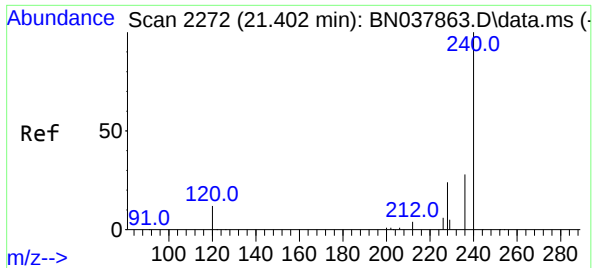
Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0

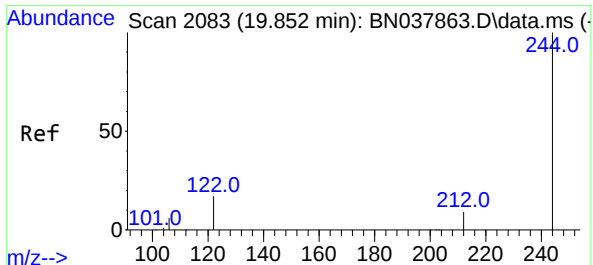
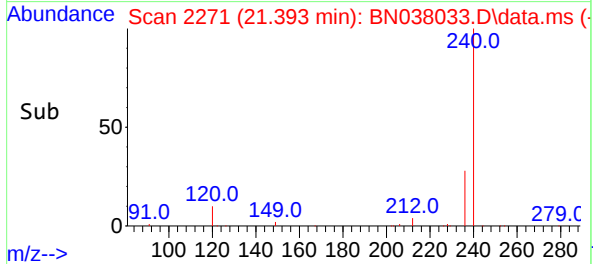
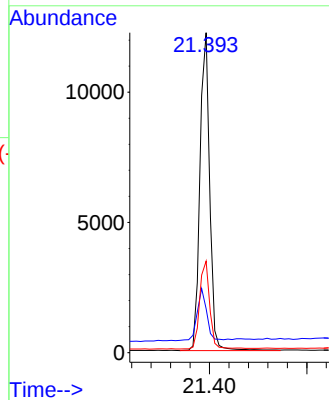
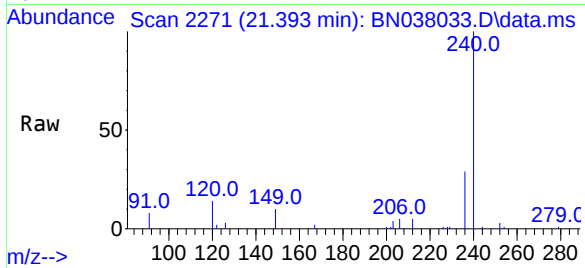




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.393 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038033.D  
Acq: 07 Oct 2025 06:10

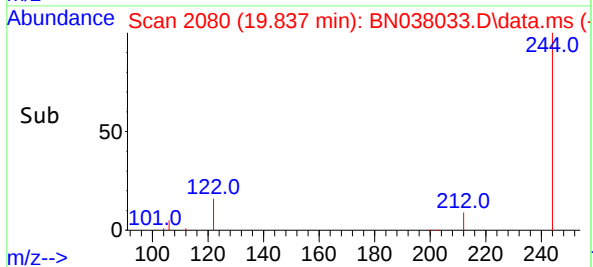
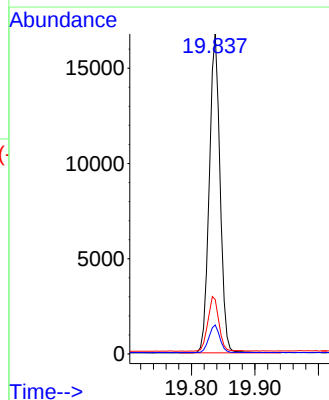
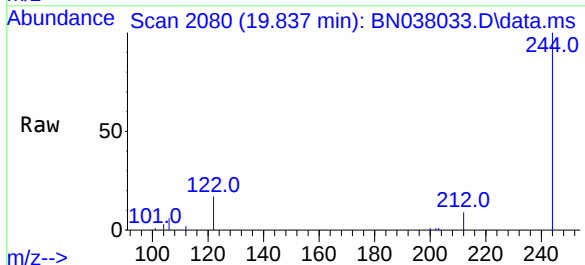
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-EB-20250923

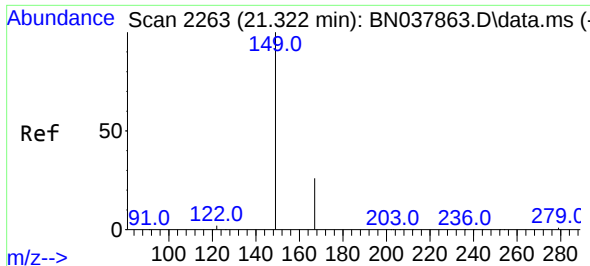
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.7  | 11.4  | 17.2  |
| 236     | 28.6  | 23.0  | 34.6  |



#31  
Terphenyl-d14  
Concen: 0.587 ng  
RT: 19.837 min Scan# 2080  
Delta R.T. -0.014 min  
Lab File: BN038033.D  
Acq: 07 Oct 2025 06:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.0   | 7.6   | 11.4  |
| 122     | 17.0  | 13.9  | 20.9  |

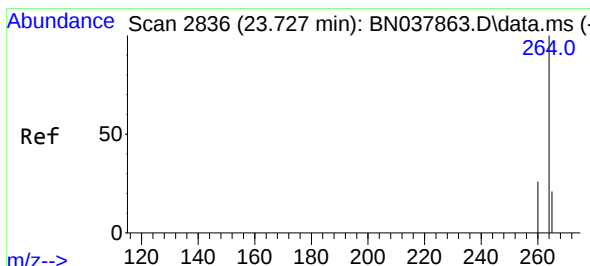
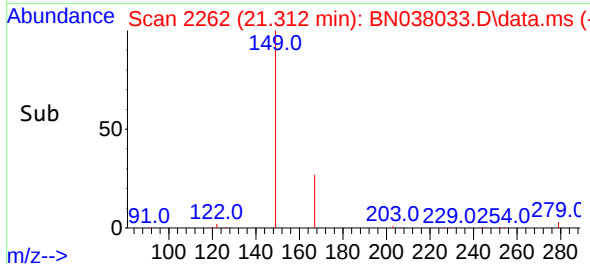
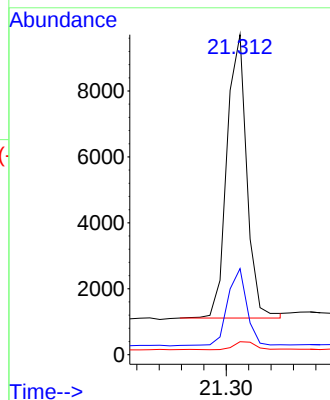
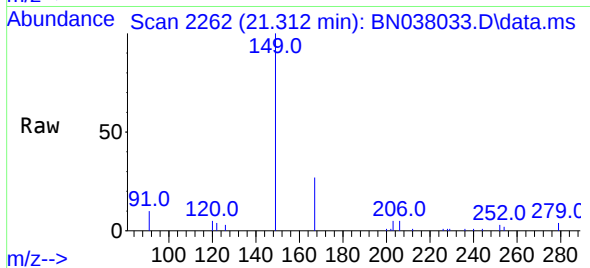




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.455 ng  
RT: 21.312 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038033.D  
Acq: 07 Oct 2025 06:10

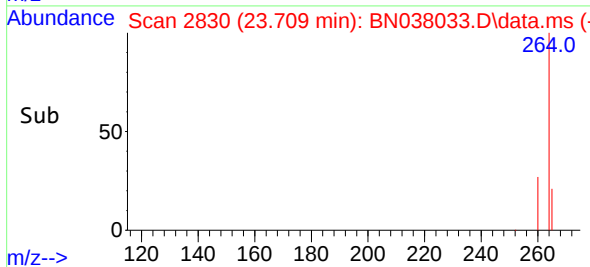
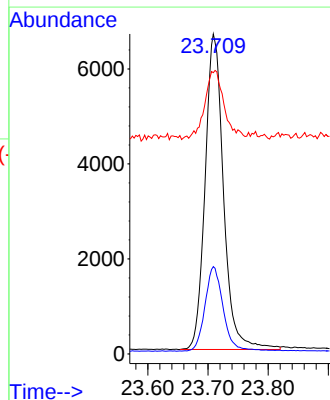
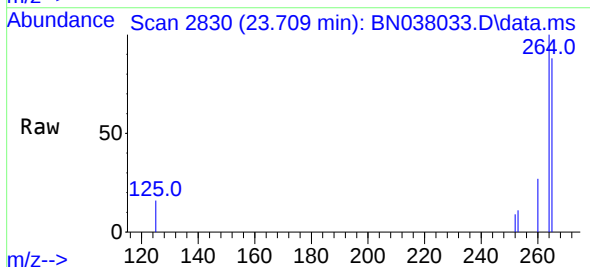
Instrument :  
BNA\_N  
ClientSampleId :  
BP-VPB-184-EB-20250923

Tgt Ion:149 Resp: 10637  
Ion Ratio Lower Upper  
149 100  
167 26.0 20.4 30.6  
279 3.3 2.4 3.6



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.709 min Scan# 2830  
Delta R.T. -0.018 min  
Lab File: BN038033.D  
Acq: 07 Oct 2025 06:10

Tgt Ion:264 Resp: 14124  
Ion Ratio Lower Upper  
264 100  
260 27.3 21.5 32.3  
265 87.9 53.8 80.6#





# CALIBRATION SUMMARY

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Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN092325.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Wed Sep 24 11:00:01 2025  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN037861.D 0.2 =BN037862.D 0.4 =BN037863.D 0.8 =BN037864.D 1.6 =BN037865.D 3.2 =BN037866.D 5 =BN037867.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          | 0.410 | 0.403 | 0.425 | 0.410 | 0.376 | 0.406 | 4.04  |       |
| 3)        | n-Nitrosodimet...     | 0.541          | 0.517 | 0.526 | 0.561 | 0.549 | 0.547 | 0.540 | 3.03  |       |
| 4) S      | 2-Fluorophenol        | 0.944          | 0.921 | 0.856 | 0.839 | 0.908 | 0.923 | 0.998 | 0.913 | 5.84  |
| 5) S      | Phenol-d6             | 1.190          | 1.200 | 1.118 | 1.088 | 1.211 | 1.236 | 1.353 | 1.199 | 7.15  |
| 6)        | bis(2-Chloroet...     | 1.133          | 1.096 | 1.082 | 1.066 | 1.150 | 1.124 | 1.143 | 1.113 | 2.89  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 7) I      | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 8) S      | Nitrobenzene-d5       | 0.299          | 0.289 | 0.289 | 0.290 | 0.310 | 0.320 | 0.338 | 0.305 | 6.14  |
| 9)        | Naphthalene           | 1.105          | 1.089 | 1.048 | 1.051 | 1.123 | 1.137 | 1.160 | 1.102 | 3.84  |
| 10)       | Hexachlorobuta...     | 0.198          | 0.184 | 0.182 | 0.183 | 0.192 | 0.188 | 0.188 | 0.188 | 2.94  |
| 11) SURR2 | Methylnaphth...       | 0.515          | 0.518 | 0.499 | 0.504 | 0.553 | 0.587 | 0.714 | 0.556 | 13.74 |
| 12)       | 2-Methylnaphth...     | 0.678          | 0.681 | 0.668 | 0.682 | 0.754 | 0.775 | 0.802 | 0.720 | 7.68  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 13) I     | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 14) S     | 2,4,6-Tribromo...     | 0.148          | 0.142 | 0.135 | 0.139 | 0.163 | 0.184 | 0.152 | 12.15 |       |
| 15) S     | 2-Fluorobiphenyl      | 1.660          | 1.631 | 1.559 | 1.547 | 1.654 | 1.650 | 1.762 | 1.638 | 4.36  |
| 16)       | Acenaphthylene        | 1.698          | 1.721 | 1.663 | 1.680 | 1.907 | 1.951 | 2.094 | 1.816 | 9.23  |
| 17)       | Acenaphthene          | 1.262          | 1.230 | 1.198 | 1.208 | 1.351 | 1.371 | 1.437 | 1.294 | 7.16  |
| 18)       | Fluorene              | 1.455          | 1.455 | 1.452 | 1.466 | 1.664 | 1.717 | 1.748 | 1.565 | 8.77  |
|           |                       |                |       |       |       |       |       |       |       |       |
| 19) I     | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 20)       | 4,6-Dinitro-2-...     | 0.041          | 0.044 | 0.046 | 0.058 | 0.071 | 0.084 | 0.057 | 29.75 |       |
| 21)       | 4-Bromophenyl-...     | 0.252          | 0.247 | 0.244 | 0.244 | 0.272 | 0.275 | 0.291 | 0.261 | 7.07  |
| 22)       | Hexachlorobenzene     | 0.317          | 0.312 | 0.305 | 0.300 | 0.324 | 0.323 | 0.332 | 0.316 | 3.53  |
| 23)       | Atrazine              | 0.180          | 0.181 | 0.172 | 0.178 | 0.205 | 0.224 | 0.249 | 0.199 | 14.70 |
| 24)       | Pentachlorophenol     | 0.101          | 0.092 | 0.097 | 0.116 | 0.136 | 0.108 | 16.50 |       |       |
| 25)       | Phenanthrene          | 1.301          | 1.271 | 1.230 | 1.224 | 1.358 | 1.379 | 1.452 | 1.316 | 6.37  |
| 26)       | Anthracene            | 1.034          | 1.035 | 1.023 | 1.057 | 1.209 | 1.275 | 1.361 | 1.142 | 12.10 |
| 27) SURR  | Fluoranthene-d10      | 0.880          | 0.918 | 0.887 | 0.900 | 1.004 | 1.085 | 1.370 | 1.006 | 17.59 |
| 28)       | Fluoranthene          | 1.278          | 1.315 | 1.311 | 1.358 | 1.555 | 1.617 | 1.713 | 1.450 | 12.07 |
|           |                       |                |       |       |       |       |       |       |       |       |
| 29) I     | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |
| 30)       | Pyrene                | 1.576          | 1.600 | 1.521 | 1.476 | 1.607 | 1.595 | 1.679 | 1.579 | 4.12  |
| 31) S     | Terphenyl-d14         | 0.799          | 0.791 | 0.753 | 0.735 | 0.798 | 0.809 | 0.893 | 0.797 | 6.34  |
| 32)       | Benzo(a)anthra...     | 1.376          | 1.359 | 1.294 | 1.285 | 1.423 | 1.483 | 1.567 | 1.398 | 7.27  |
| 33)       | Chrysene              | 1.508          | 1.526 | 1.462 | 1.446 | 1.559 | 1.512 | 1.569 | 1.512 | 3.03  |
| 34)       | Bis(2-ethylhex...     | 0.592          | 0.487 | 0.476 | 0.518 | 0.569 | 0.676 | 0.553 | 13.57 |       |
|           |                       |                |       |       |       |       |       |       |       |       |
| 35) I     | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |

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

Method File : 8270-SIM-BN092325.M

|       |                   |       |       |       |       |       |       |       |       |       |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36)   | Indeno(1,2,3-c... | 1.715 | 1.672 | 1.658 | 1.707 | 1.887 | 1.996 | 2.159 | 1.828 | 10.52 |
| 37)   | Benzo(b)fluora... | 1.599 | 1.606 | 1.641 | 1.590 | 1.810 | 1.848 | 1.981 | 1.725 | 8.95  |
| 38)   | Benzo(k)fluora... | 1.620 | 1.586 | 1.597 | 1.628 | 1.875 | 1.917 | 1.926 | 1.736 | 9.26  |
| 39) C | Benzo(a)pyrene    | 1.254 | 1.296 | 1.231 | 1.254 | 1.413 | 1.492 | 1.610 | 1.364 | 10.61 |
| 40)   | Dibenzo(a,h)an... | 1.285 | 1.283 | 1.303 | 1.333 | 1.495 | 1.587 | 1.705 | 1.427 | 11.87 |
| 41)   | Benzo(g,h,i)pe... | 1.407 | 1.381 | 1.404 | 1.397 | 1.521 | 1.613 | 1.773 | 1.499 | 9.85  |

-----  
(#) = Out of Range

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
 Data File : BN037861.D  
 Acq On : 23 Sep 2025 12:13  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 2 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Quant Time: Sep 23 16:21:01 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:17:53 2025  
 Response via : Initial Calibration

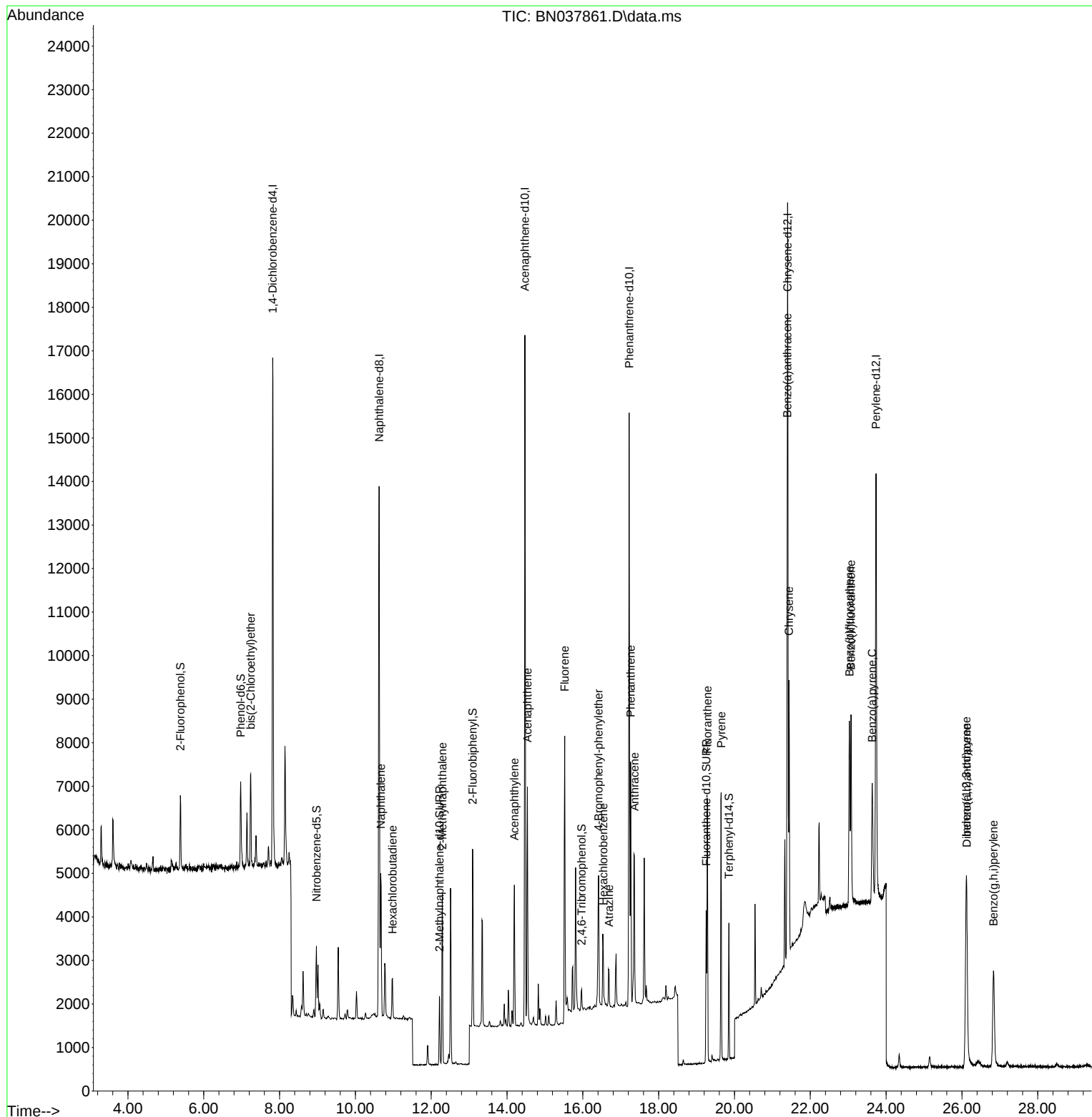
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.818  | 152  | 5856     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.626 | 136  | 16223    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.473 | 164  | 8379     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.223 | 188  | 17197    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.402 | 240  | 13854    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.736 | 264  | 13928    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.384  | 112  | 1382     | 0.103 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.973  | 99   | 1742     | 0.099 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.971  | 82   | 1212     | 0.098 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.217 | 152  | 2089     | 0.093 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.969 | 330  | 309      | 0.091 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.094 | 172  | 3478     | 0.101 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.253 | 212  | 3783     | 0.087 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.852 | 244  | 2766     | 0.100 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 6) bis(2-Chloroethyl)ether    | 7.240  | 93   | 1658     | 0.102 | ng    | 99       |
| 9) Naphthalene                | 10.669 | 128  | 4483     | 0.100 | ng    | 96       |
| 10) Hexachlorobutadiene       | 10.979 | 225  | 802      | 0.105 | ng    | # 96     |
| 12) 2-Methylnaphthalene       | 12.293 | 142  | 2749     | 0.094 | ng    | 98       |
| 16) Acenaphthylene            | 14.195 | 152  | 3557     | 0.093 | ng    | 98       |
| 17) Acenaphthene              | 14.537 | 154  | 2644     | 0.098 | ng    | 99       |
| 18) Fluorene                  | 15.523 | 166  | 3048     | 0.093 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 16.416 | 248  | 1084     | 0.097 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.540 | 284  | 1361     | 0.100 | ng    | 99       |
| 23) Atrazine                  | 16.689 | 200  | 772      | 0.090 | ng    | # 95     |
| 25) Phenanthrene              | 17.260 | 178  | 5595     | 0.099 | ng    | 99       |
| 26) Anthracene                | 17.360 | 178  | 4446     | 0.091 | ng    | 99       |
| 28) Fluoranthene              | 19.285 | 202  | 5493     | 0.088 | ng    | 99       |
| 30) Pyrene                    | 19.647 | 202  | 5458     | 0.100 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.393 | 228  | 4766     | 0.098 | ng    | 99       |
| 33) Chrysene                  | 21.438 | 228  | 5223     | 0.100 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.113 | 276  | 5972     | 0.094 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 23.031 | 252  | 5567     | 0.093 | ng    | # 78     |
| 38) Benzo(k)fluoranthene      | 23.075 | 252  | 5642     | 0.093 | ng    | # 80     |
| 39) Benzo(a)pyrene            | 23.630 | 252  | 4368     | 0.092 | ng    | # 71     |
| 40) Dibenzo(a,h)anthracene    | 26.127 | 278  | 4476     | 0.090 | ng    | # 85     |
| 41) Benzo(g,h,i)perylene      | 26.832 | 276  | 4900     | 0.094 | ng    | 93       |

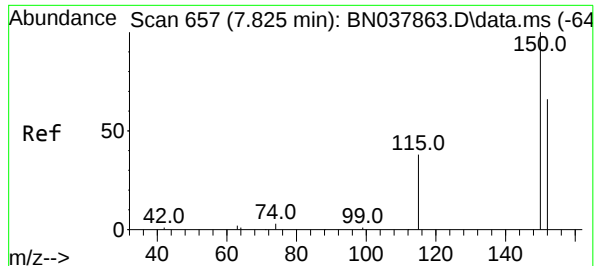
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037861.D  
Acq On : 23 Sep 2025 12:13  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 2 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

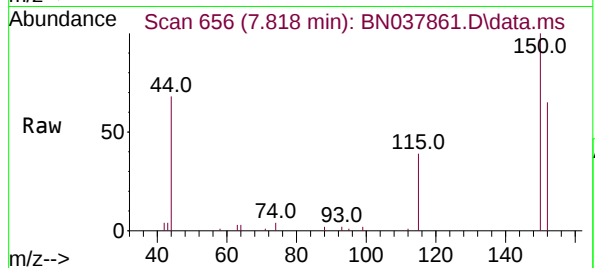
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Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 16:17:53 2025  
Response via : Initial Calibration



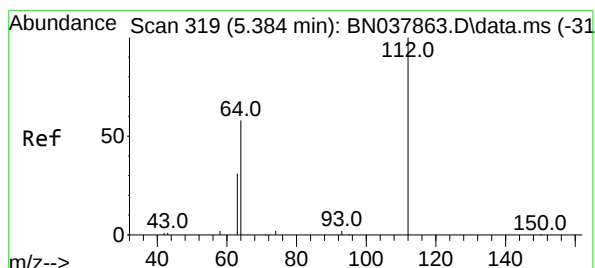
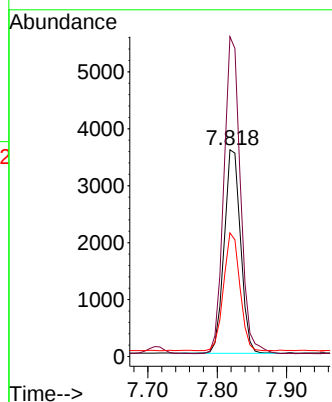
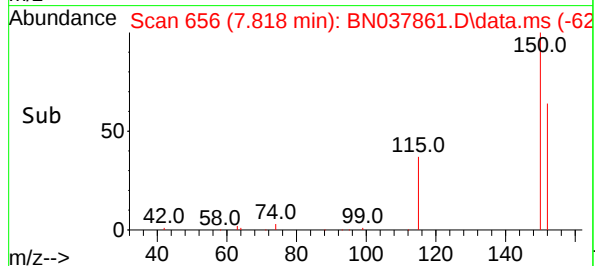


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.818 min Scan# 61  
Delta R.T. -0.007 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

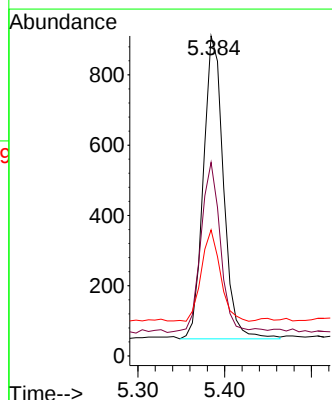
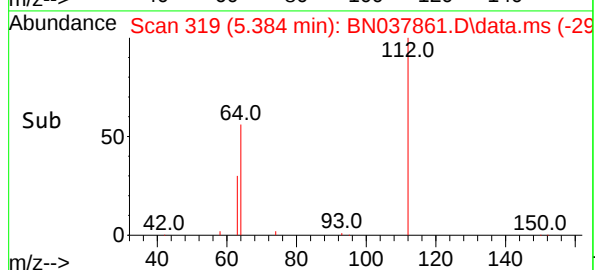
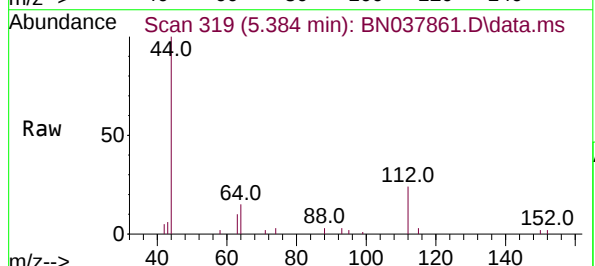


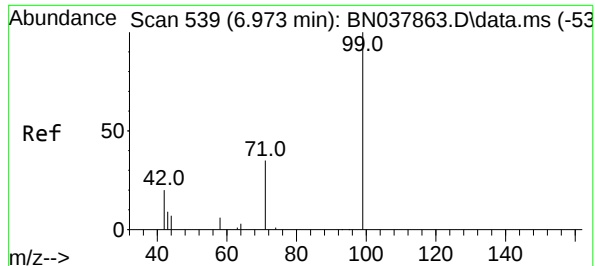
Tgt Ion:152 Resp: 5856  
Ion Ratio Lower Upper  
152 100  
150 154.8 121.0 181.4  
115 59.9 47.4 71.0



#4  
2-Fluorophenol  
Concen: 0.103 ng  
RT: 5.384 min Scan# 319  
Delta R.T. -0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

Tgt Ion:112 Resp: 1382  
Ion Ratio Lower Upper  
112 100  
64 55.3 44.6 66.8  
63 28.7 24.9 37.3

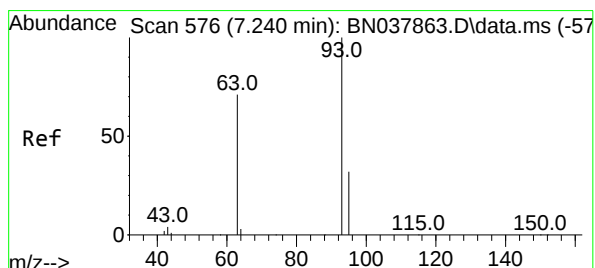
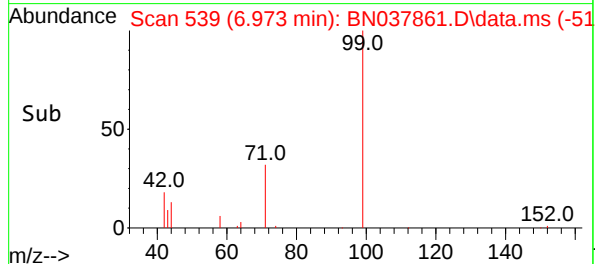
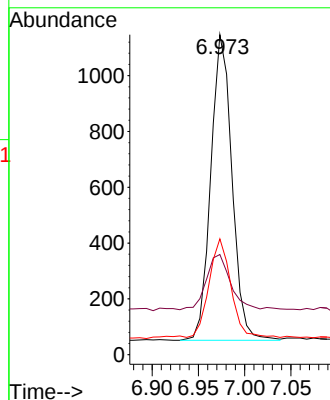
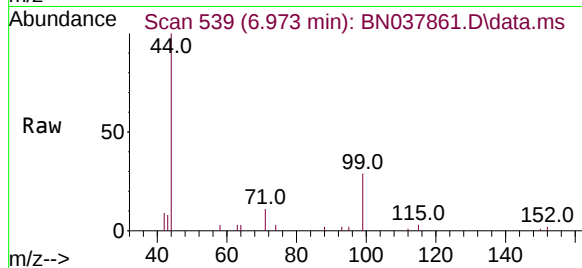




#5  
Phenol-d6  
Concen: 0.099 ng  
RT: 6.973 min Scan# 539  
Delta R.T. 0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

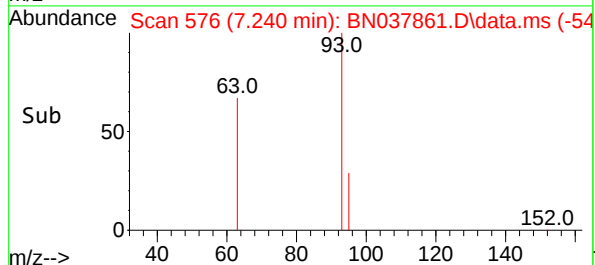
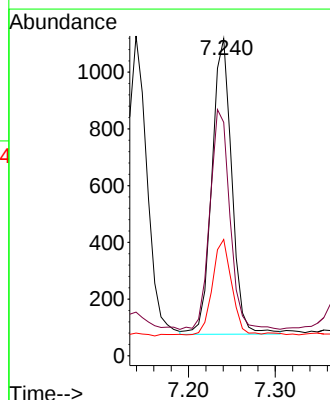
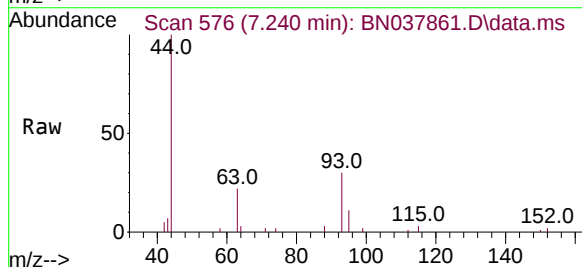
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BNA\_N  
ClientSampleId :  
SSTDICC0.1

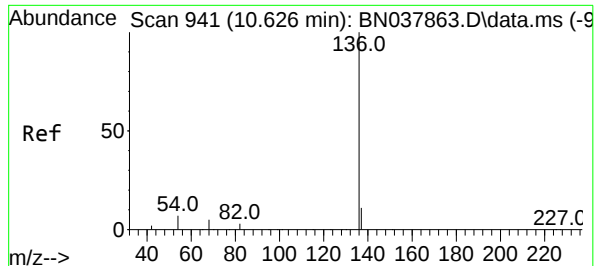
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 21.0  | 17.2  | 25.8  |
| 71      | 33.5  | 27.3  | 40.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.102 ng  
RT: 7.240 min Scan# 576  
Delta R.T. 0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 75.2  | 60.1  | 90.1  |
| 95      | 31.0  | 25.4  | 38.2  |

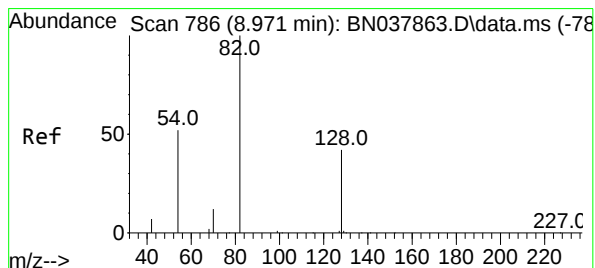
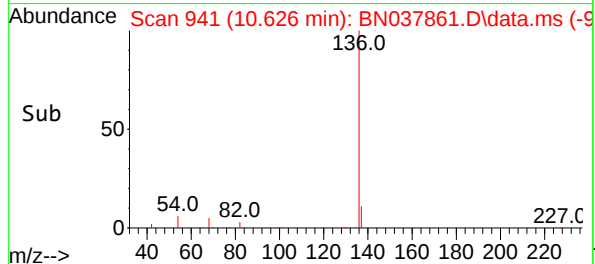
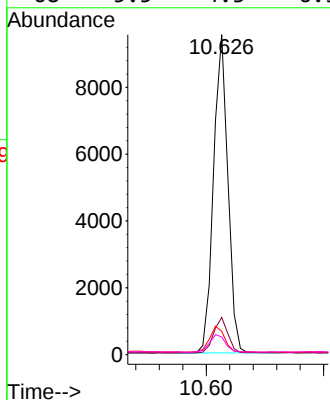
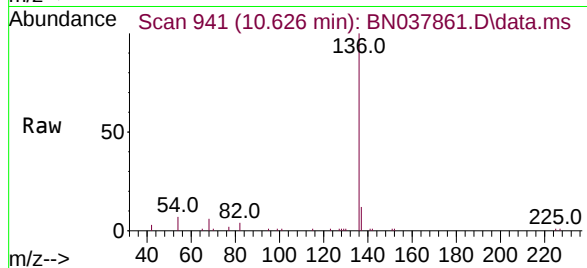




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.626 min Scan# 941  
Delta R.T. 0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

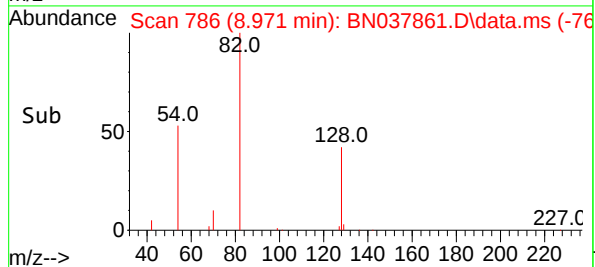
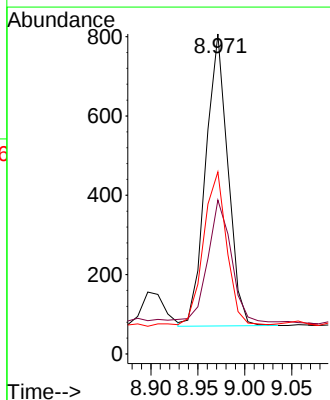
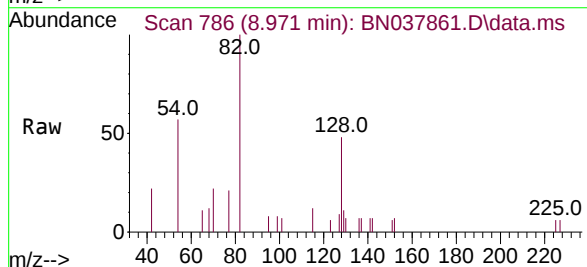
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

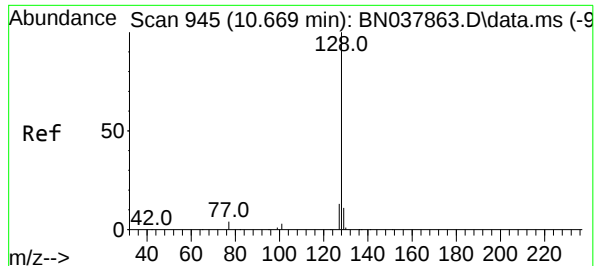
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 16223 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.6  | 9.0   | 13.4  |
| 54       | 7.3   | 5.8   | 8.8   |
| 68       | 5.5   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.098 ng  
RT: 8.971 min Scan# 786  
Delta R.T. -0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1212  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 48.1  | 34.8  | 52.2  |
| 54       | 56.9  | 42.2  | 63.2  |





#9

Naphthalene

Concen: 0.100 ng

RT: 10.669 min Scan# 945

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

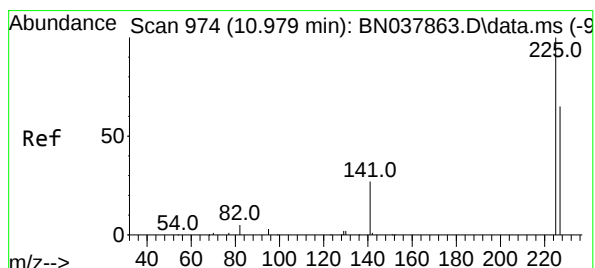
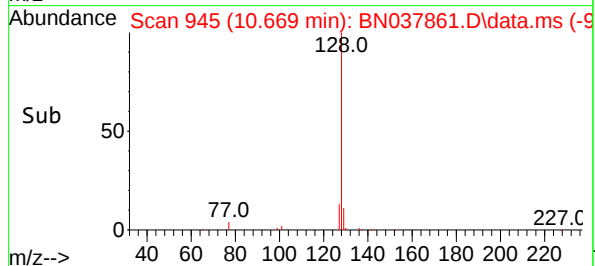
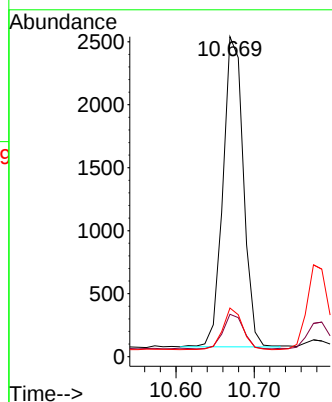
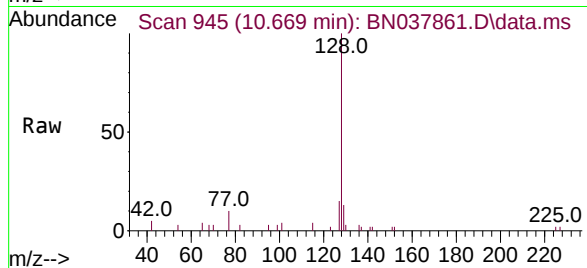
Tgt Ion:128 Resp: 4483

Ion Ratio Lower Upper

128 100

129 13.2 9.2 13.8

127 15.2 11.0 16.6



#10

Hexachlorobutadiene

Concen: 0.105 ng

RT: 10.979 min Scan# 974

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

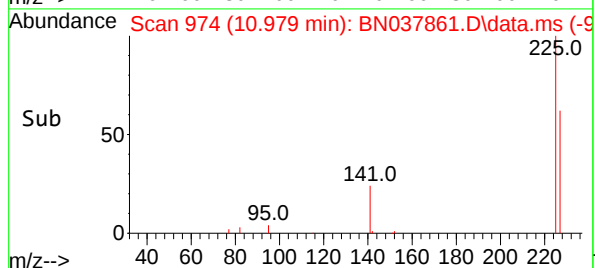
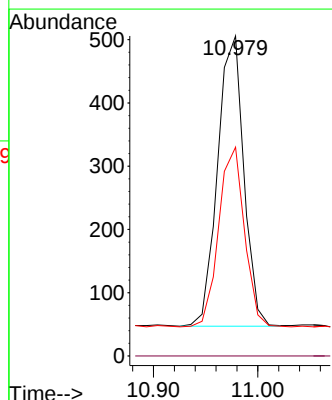
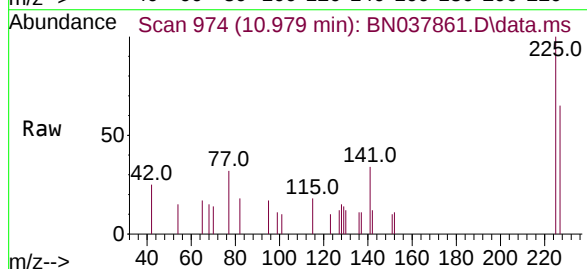
Tgt Ion:225 Resp: 802

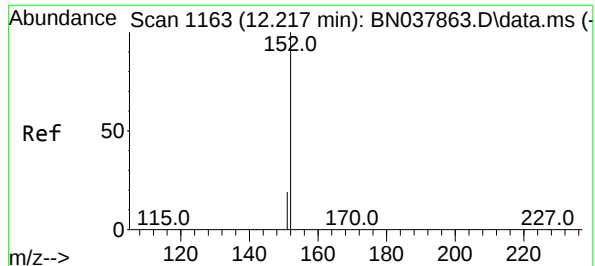
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 60.8 51.4 77.2

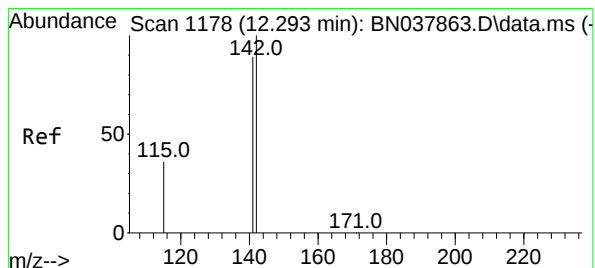
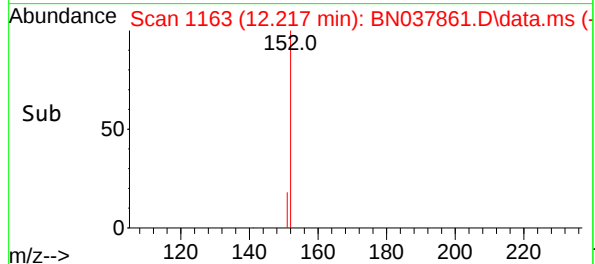
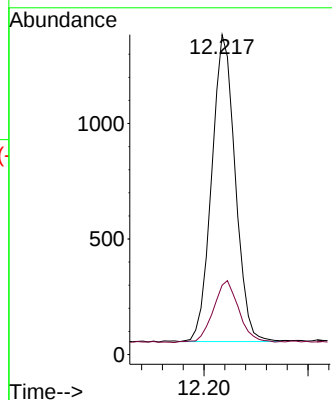
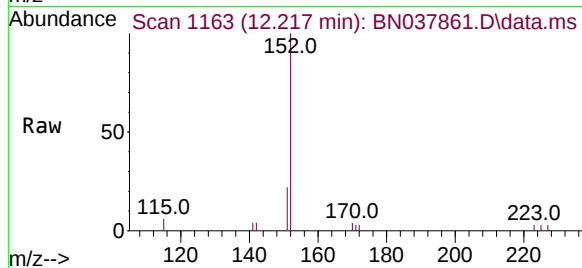




#11  
2-Methylnaphthalene-d10  
Concen: 0.093 ng  
RT: 12.217 min Scan# 1163  
Delta R.T. -0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

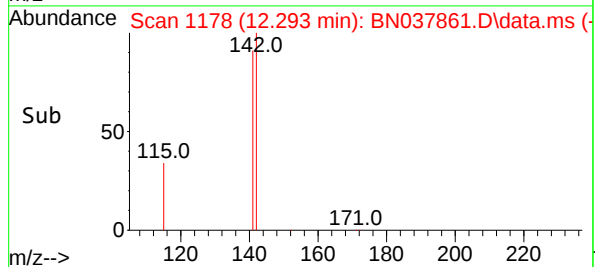
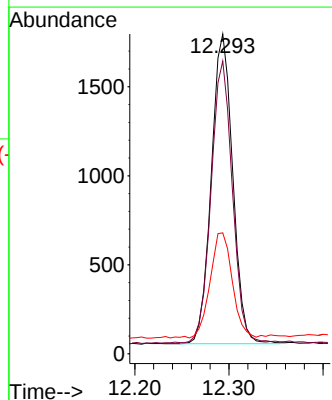
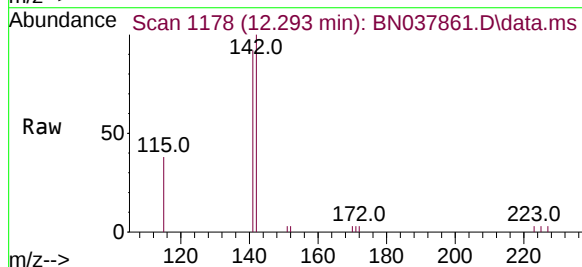
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

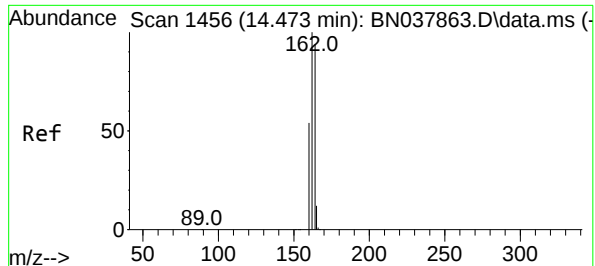
Tgt Ion:152 Resp: 2089  
Ion Ratio Lower Upper  
152 100  
151 22.0 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 0.094 ng  
RT: 12.293 min Scan# 1178  
Delta R.T. 0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

Tgt Ion:142 Resp: 2749  
Ion Ratio Lower Upper  
142 100  
141 91.5 71.2 106.8  
115 37.8 29.7 44.5

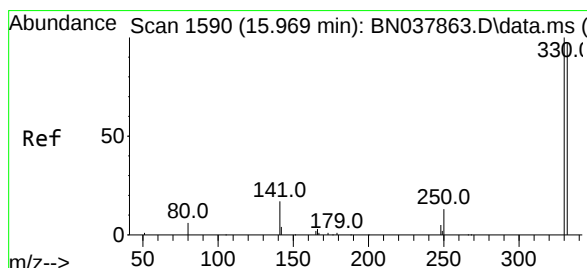
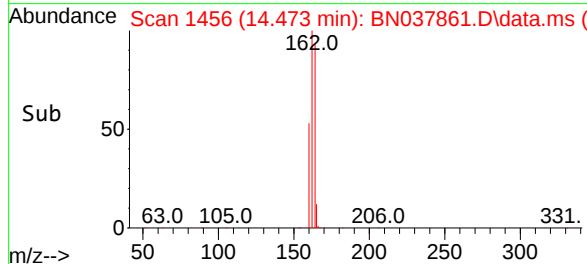
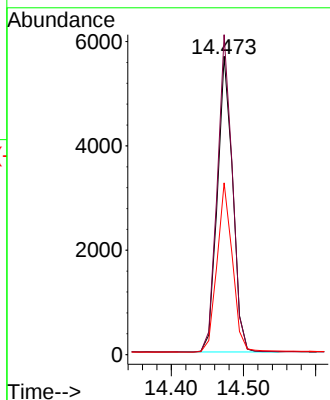
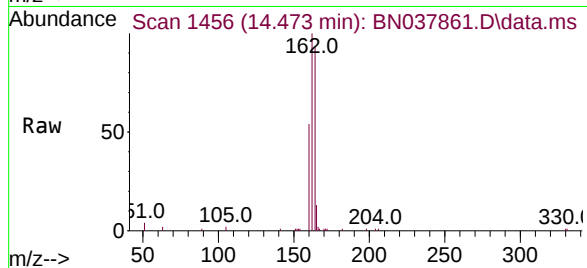




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.473 min Scan# 1456  
Delta R.T. -0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

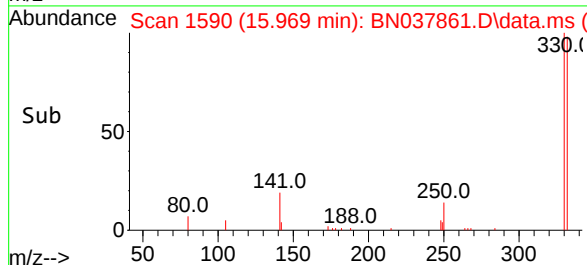
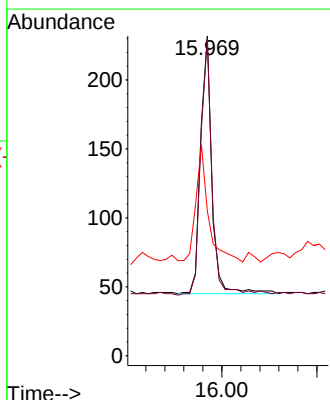
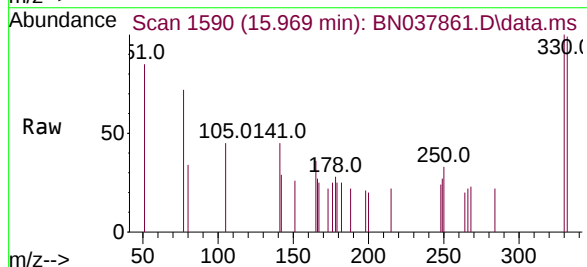
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

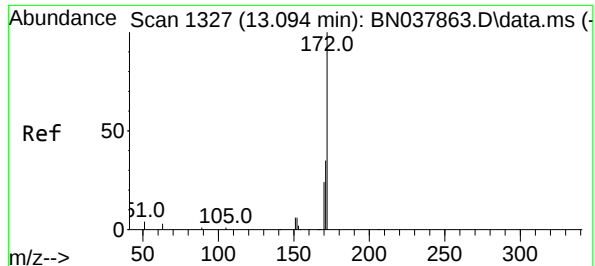
Tgt Ion:164 Resp: 8379  
Ion Ratio Lower Upper  
164 100  
162 107.3 84.8 127.2  
160 57.6 46.1 69.1



#14  
2,4,6-Tribromophenol  
Concen: 0.091 ng  
RT: 15.969 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

Tgt Ion:330 Resp: 309  
Ion Ratio Lower Upper  
330 100  
332 100.3 77.2 115.8  
141 50.8 37.2 55.8

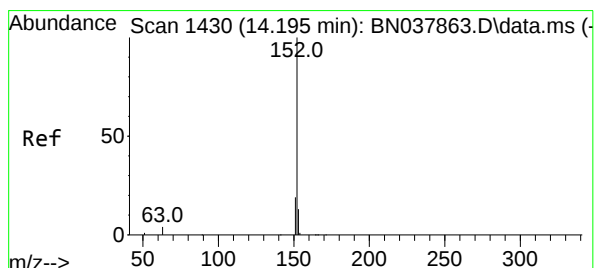
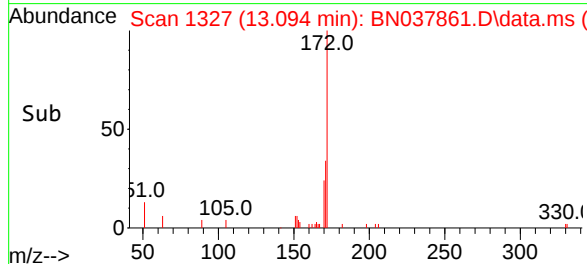
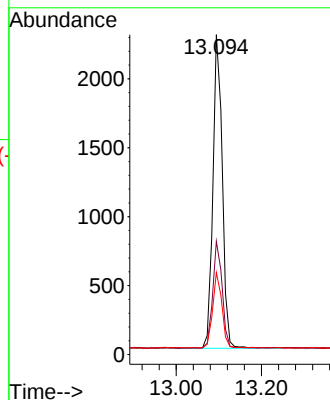
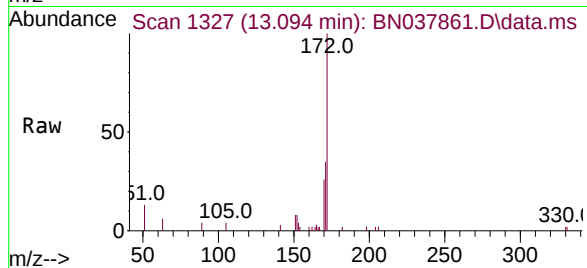




#15  
2-Fluorobiphenyl  
Concen: 0.101 ng  
RT: 13.094 min Scan# 1327  
Delta R.T. 0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

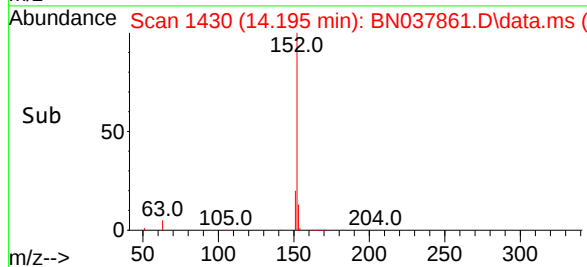
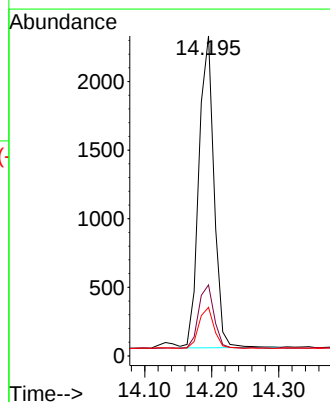
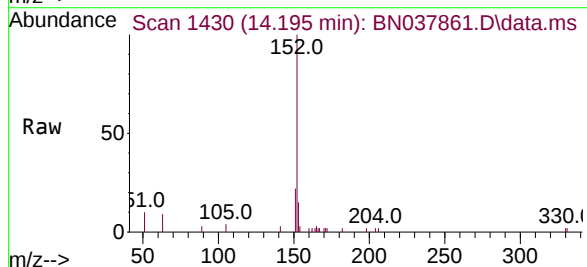
Instrument :  
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ClientSampleId :  
SSTDICC0.1

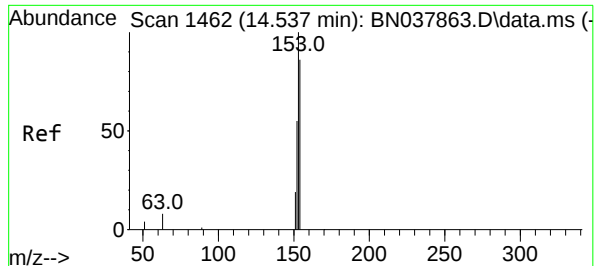
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.4  | 28.6  | 43.0  |
| 170     | 25.6  | 19.7  | 29.5  |



#16  
Acenaphthylene  
Concen: 0.093 ng  
RT: 14.195 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 21.2  | 15.8  | 23.8  |
| 153     | 13.2  | 10.5  | 15.7  |





#17

Acenaphthene

Concen: 0.098 ng

RT: 14.537 min Scan# 1462

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.1

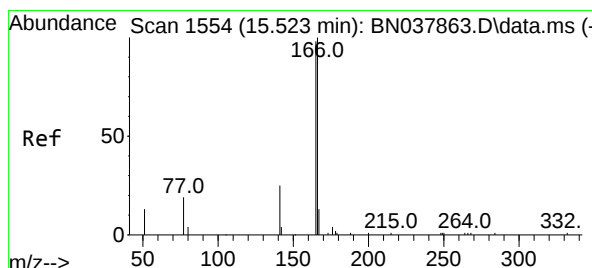
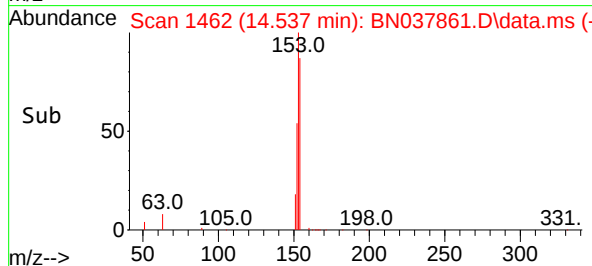
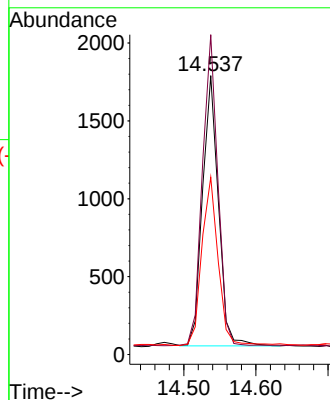
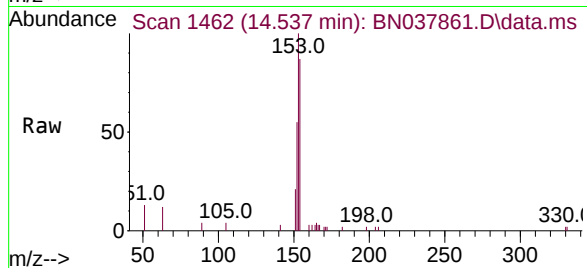
Tgt Ion:154 Resp: 2644

Ion Ratio Lower Upper

154 100

153 111.7 90.5 135.7

152 64.5 51.8 77.8



#18

Fluorene

Concen: 0.093 ng

RT: 15.523 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

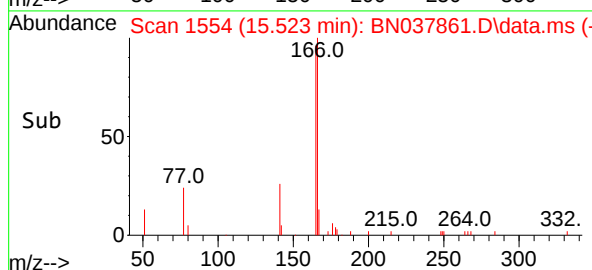
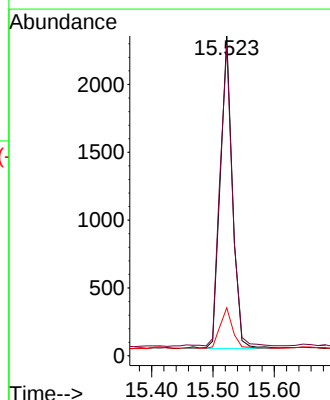
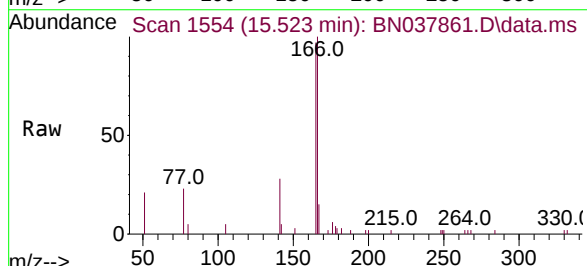
Tgt Ion:166 Resp: 3048

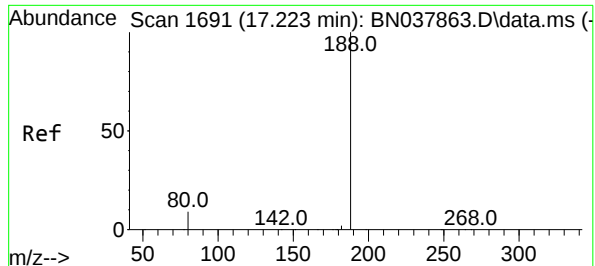
Ion Ratio Lower Upper

166 100

165 100.0 79.0 118.4

167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

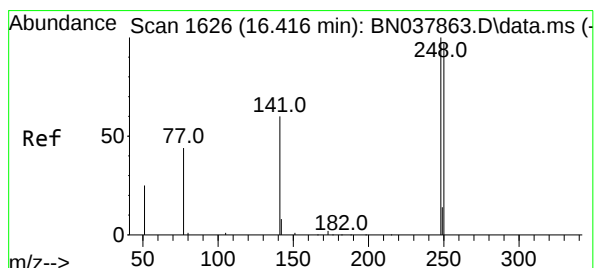
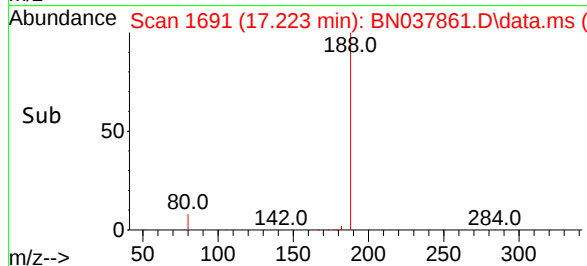
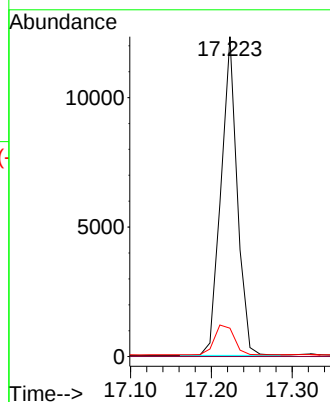
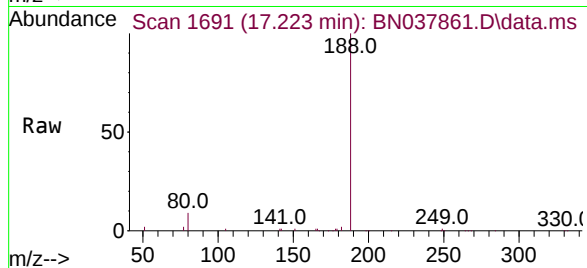
Tgt Ion:188 Resp: 17197

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.9 7.6 11.4



#21

4-Bromophenyl-phenylether

Concen: 0.097 ng

RT: 16.416 min Scan# 1626

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

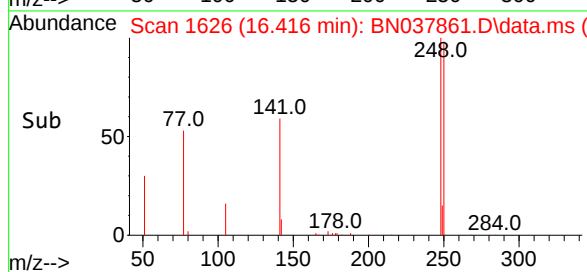
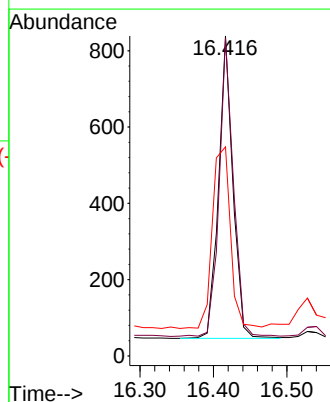
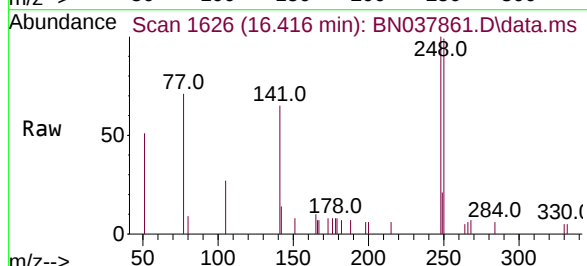
Tgt Ion:248 Resp: 1084

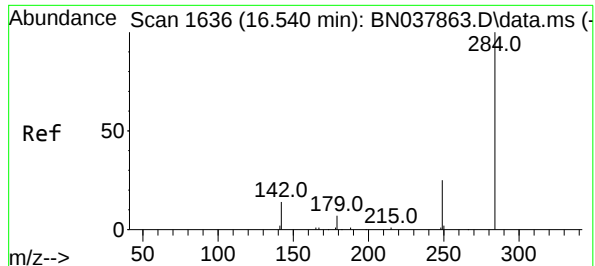
Ion Ratio Lower Upper

248 100

250 99.3 77.6 116.4

141 65.3 48.8 73.2





#22

Hexachlorobenzene

Concen: 0.100 ng

RT: 16.540 min Scan# 1636

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

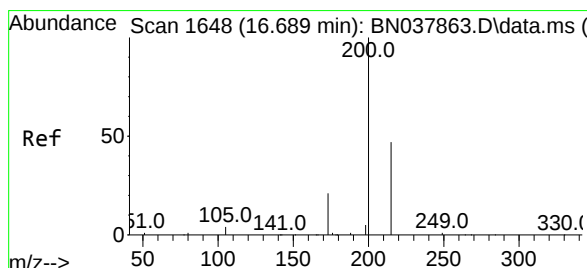
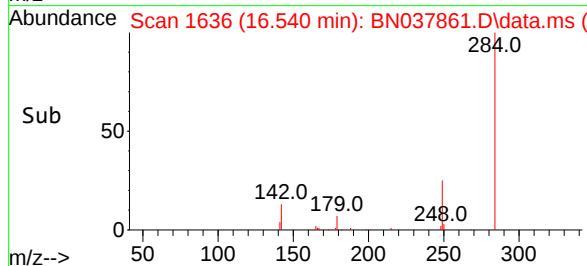
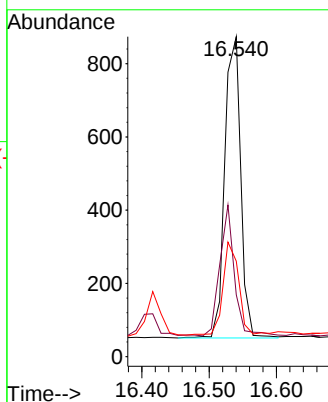
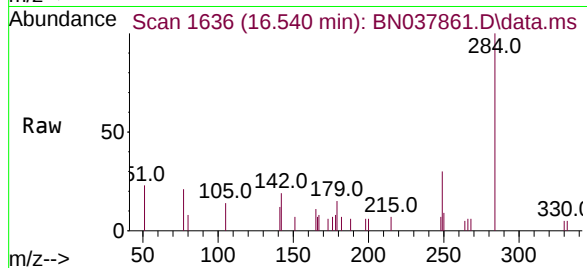
Tgt Ion:284 Resp: 1361

Ion Ratio Lower Upper

284 100

142 38.9 30.9 46.3

249 30.6 23.9 35.9



#23

Atrazine

Concen: 0.090 ng

RT: 16.689 min Scan# 1648

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

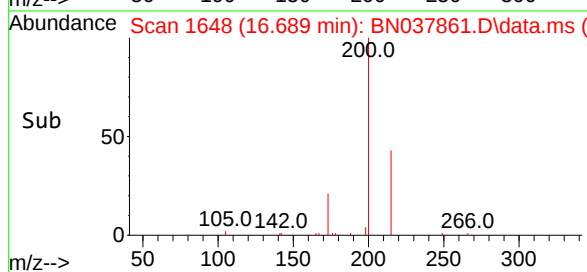
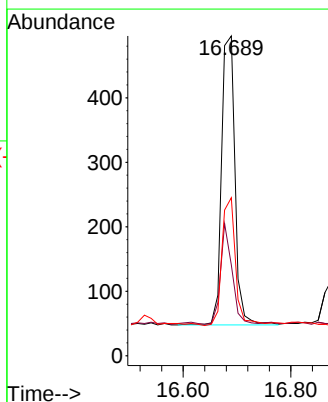
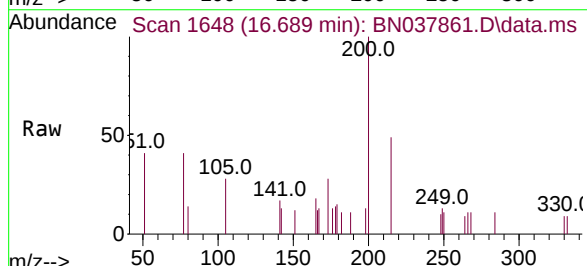
Tgt Ion:200 Resp: 772

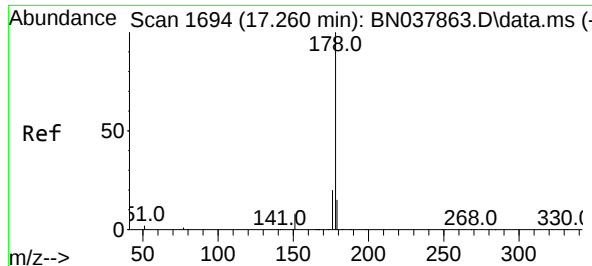
Ion Ratio Lower Upper

200 100

173 28.4 18.3 27.5#

215 49.4 38.6 58.0

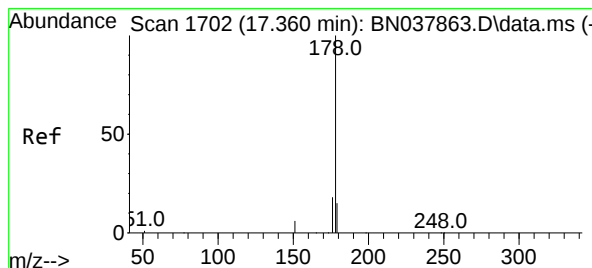
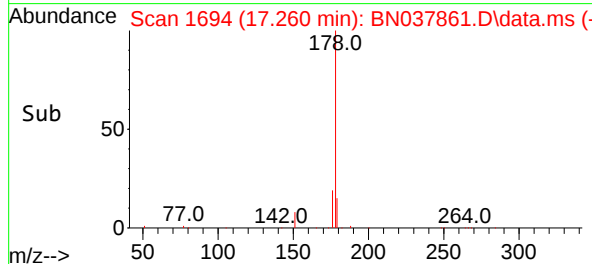
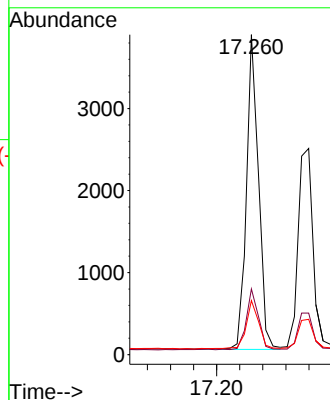
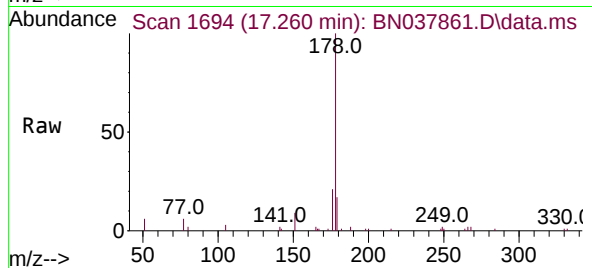




#25  
Phenanthrene  
Concen: 0.099 ng  
RT: 17.260 min Scan# 1694  
Delta R.T. 0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

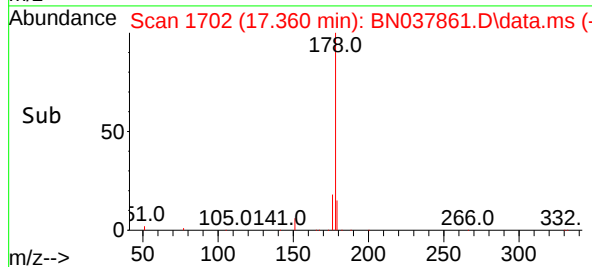
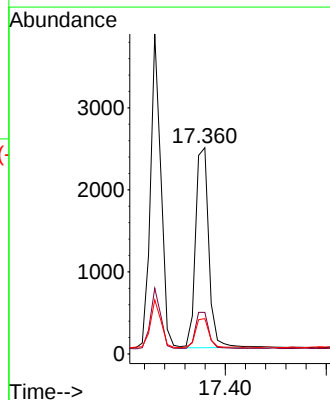
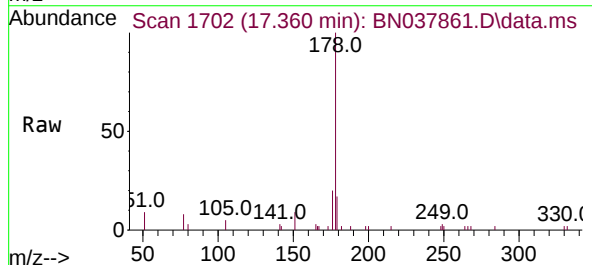
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

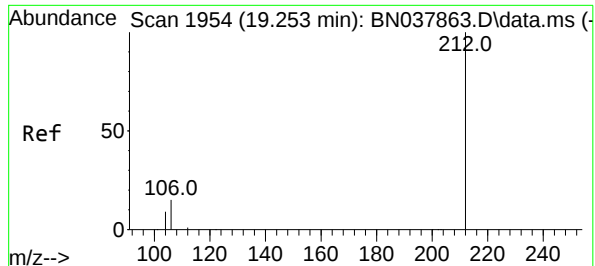
Tgt Ion:178 Resp: 5595  
Ion Ratio Lower Upper  
178 100  
176 19.3 15.7 23.5  
179 16.2 12.3 18.5



#26  
Anthracene  
Concen: 0.091 ng  
RT: 17.360 min Scan# 1702  
Delta R.T. 0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

Tgt Ion:178 Resp: 4446  
Ion Ratio Lower Upper  
178 100  
176 18.5 15.0 22.4  
179 14.9 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.087 ng

RT: 19.253 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

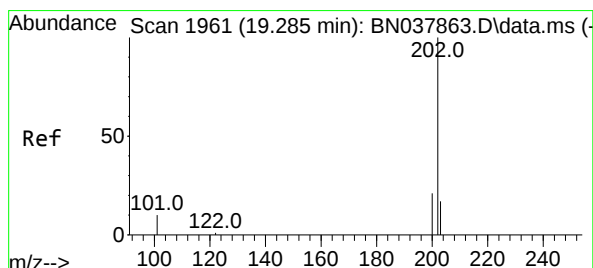
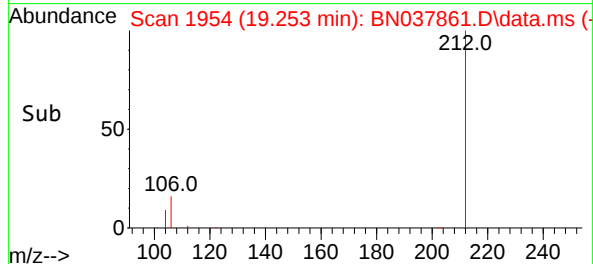
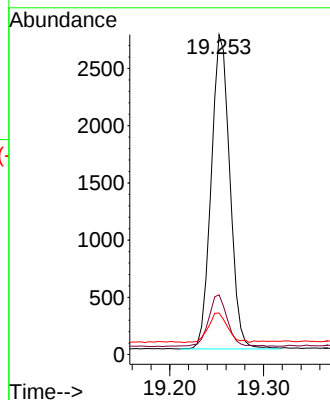
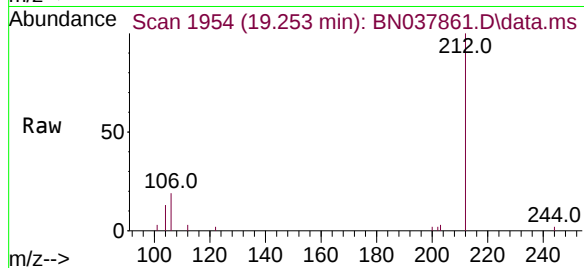
Tgt Ion:212 Resp: 3783

Ion Ratio Lower Upper

212 100

106 16.8 12.6 19.0

104 9.7 7.4 11.0



#28

Fluoranthene

Concen: 0.088 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

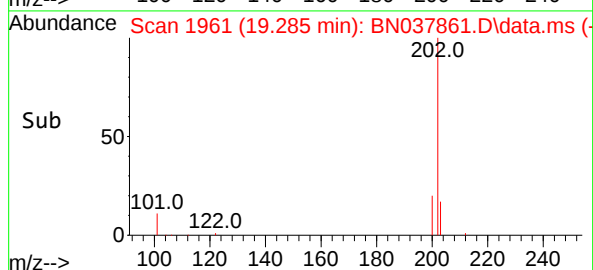
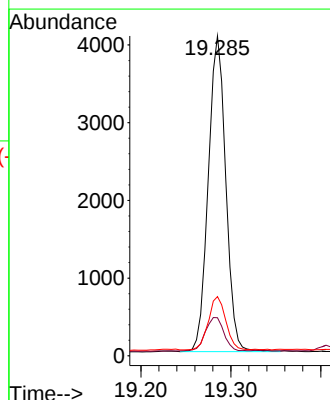
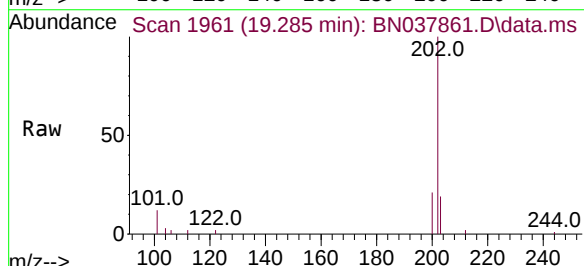
Tgt Ion:202 Resp: 5493

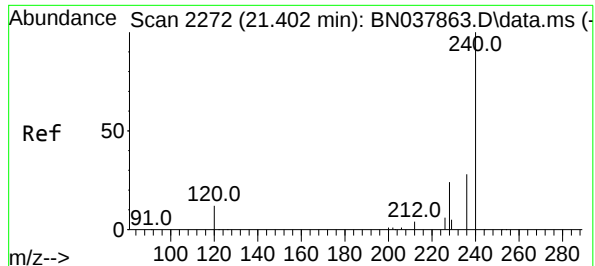
Ion Ratio Lower Upper

202 100

101 11.3 9.3 13.9

203 16.8 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

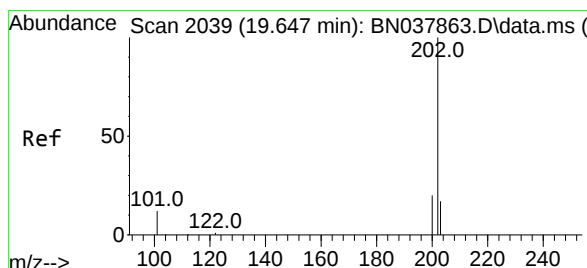
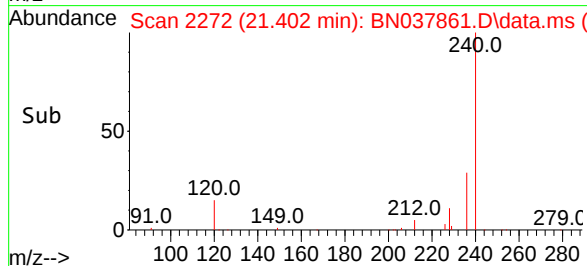
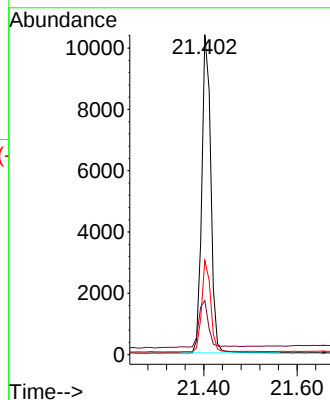
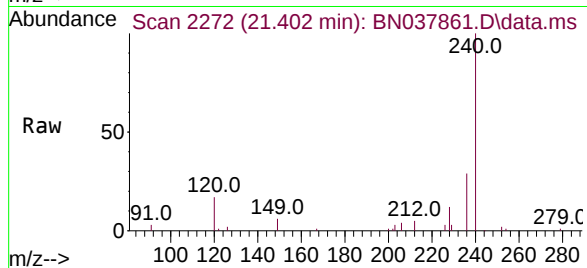
Tgt Ion:240 Resp: 13854

Ion Ratio Lower Upper

240 100

120 16.9 11.4 17.2

236 29.4 23.0 34.6



#30

Pyrene

Concen: 0.100 ng

RT: 19.647 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

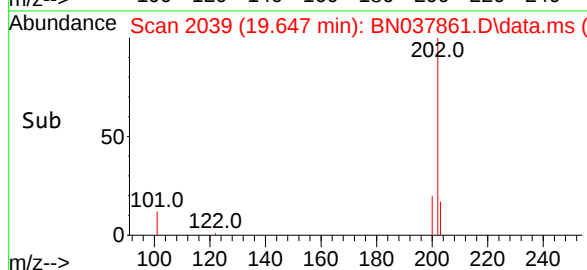
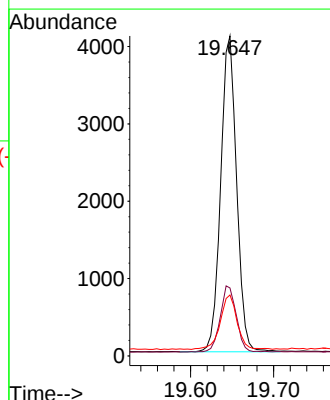
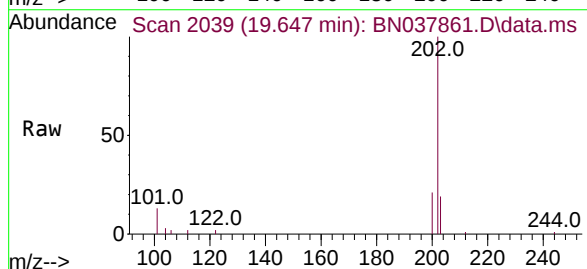
Tgt Ion:202 Resp: 5458

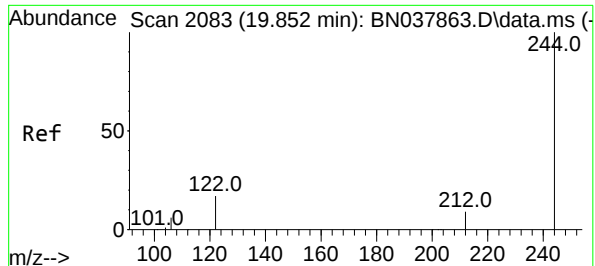
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

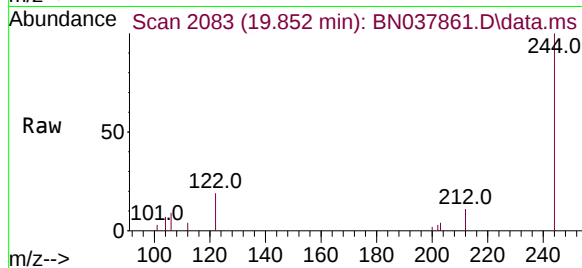
203 18.2 14.2 21.4



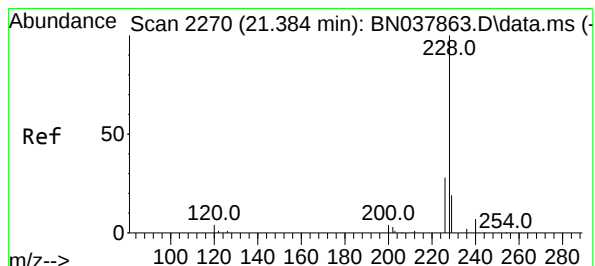
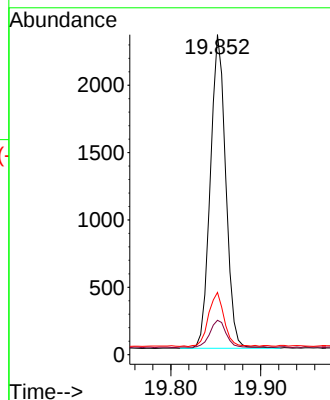


#31  
Terphenyl-d14  
Concen: 0.100 ng  
RT: 19.852 min Scan# 2083  
Delta R.T. 0.000 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

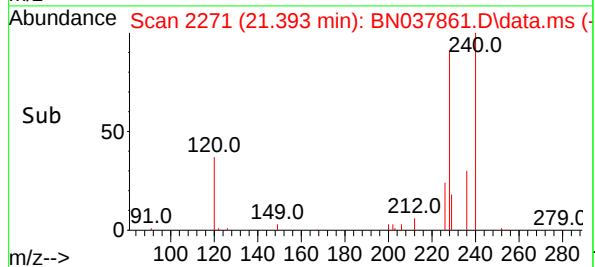
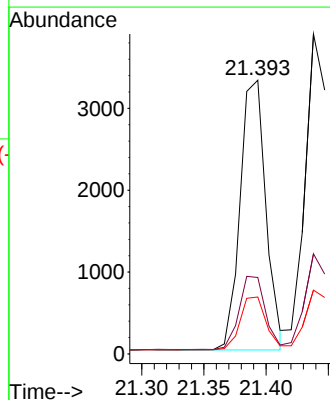
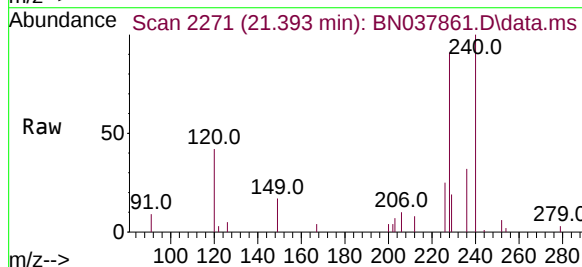


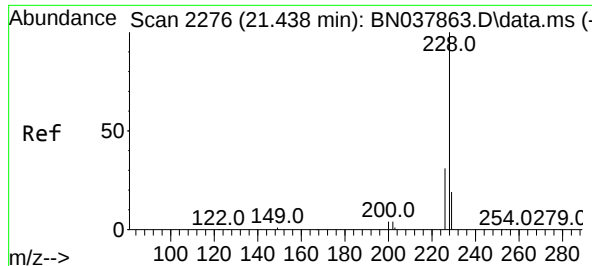
Tgt Ion:244 Resp: 2766  
Ion Ratio Lower Upper  
244 100  
212 10.7 7.6 11.4  
122 19.4 13.9 20.9



#32  
Benzo(a)anthracene  
Concen: 0.098 ng  
RT: 21.393 min Scan# 2271  
Delta R.T. 0.009 min  
Lab File: BN037861.D  
Acq: 23 Sep 2025 12:13

Tgt Ion:228 Resp: 4766  
Ion Ratio Lower Upper  
228 100  
226 27.9 22.6 33.8  
229 20.8 15.6 23.4





#33

Chrysene

Concen: 0.100 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

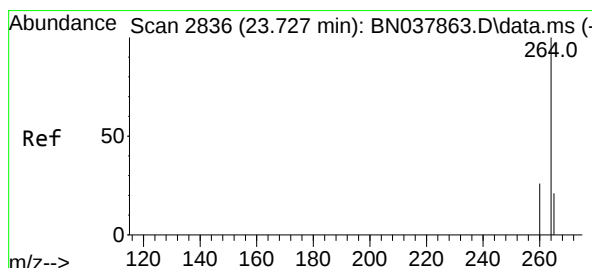
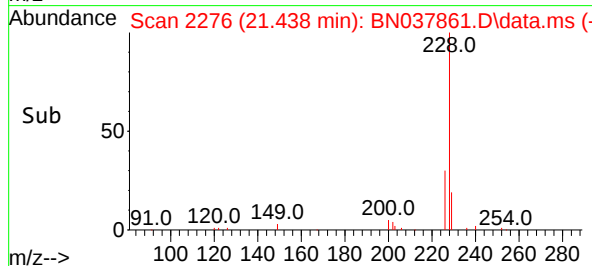
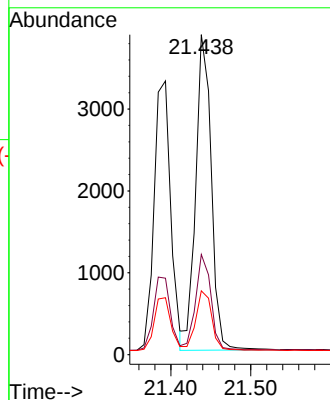
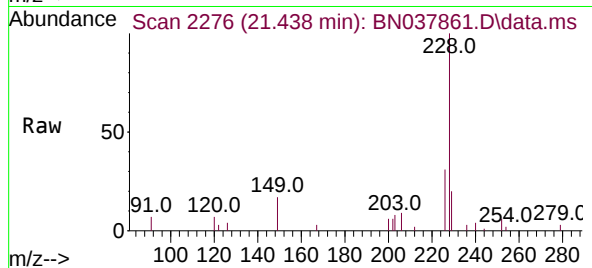
Tgt Ion:228 Resp: 5223

Ion Ratio Lower Upper

228 100

226 31.3 24.6 37.0

229 19.9 15.6 23.4



#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 2839

Delta R.T. 0.009 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

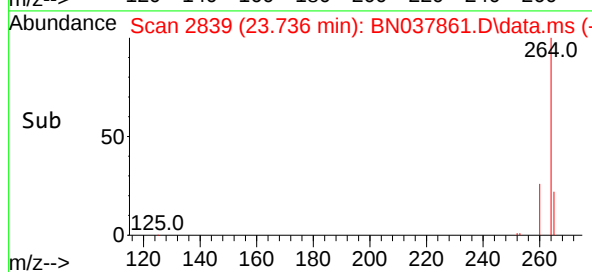
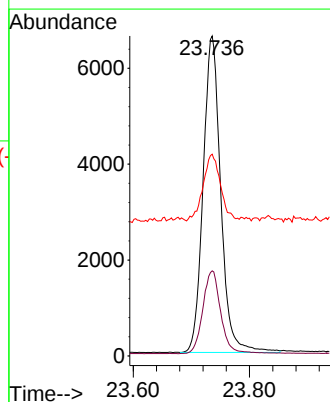
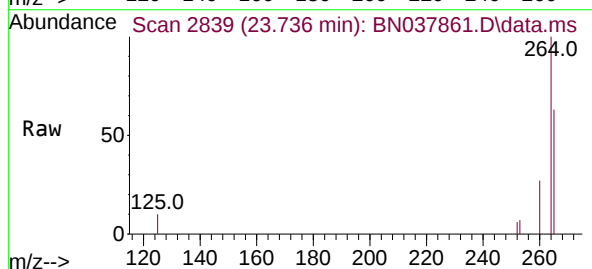
Tgt Ion:264 Resp: 13928

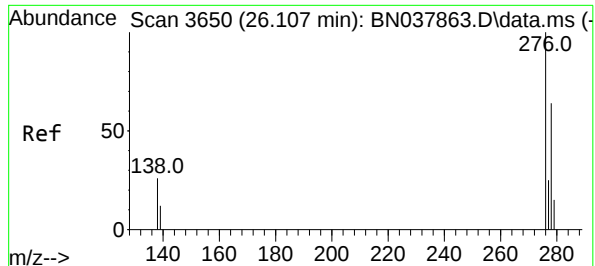
Ion Ratio Lower Upper

264 100

260 26.6 21.5 32.3

265 63.0 53.8 80.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 0.094 ng

RT: 26.113 min Scan# 3652

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.1

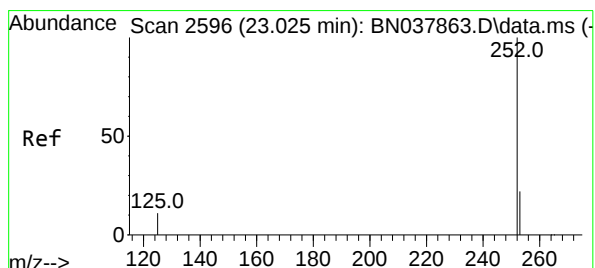
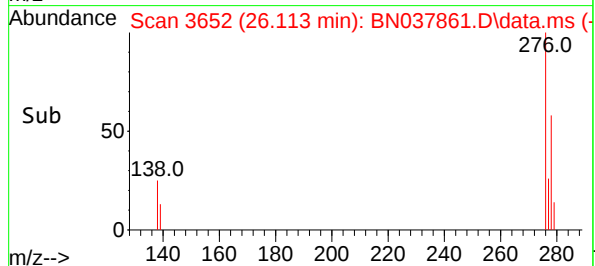
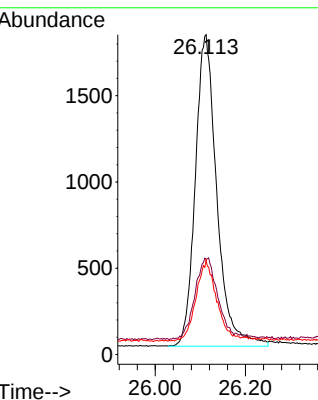
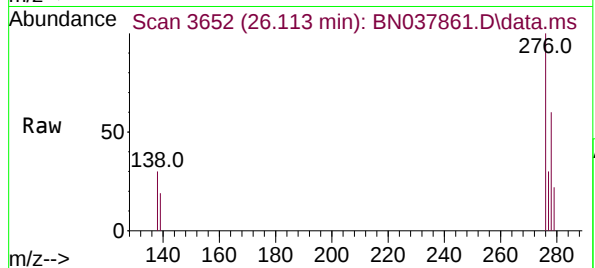
Tgt Ion:276 Resp: 5972

Ion Ratio Lower Upper

276 100

138 27.9 21.4 32.0

277 24.6 20.3 30.5



#37

Benzo(b)fluoranthene

Concen: 0.093 ng

RT: 23.031 min Scan# 2598

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

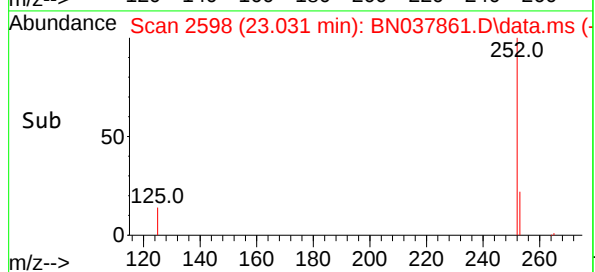
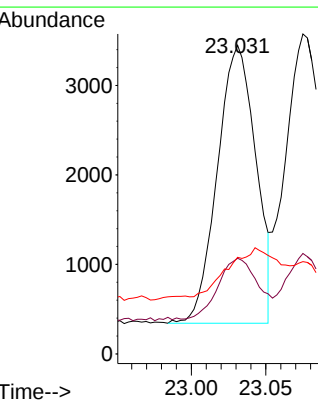
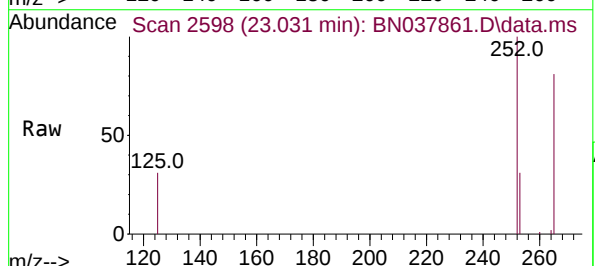
Tgt Ion:252 Resp: 5567

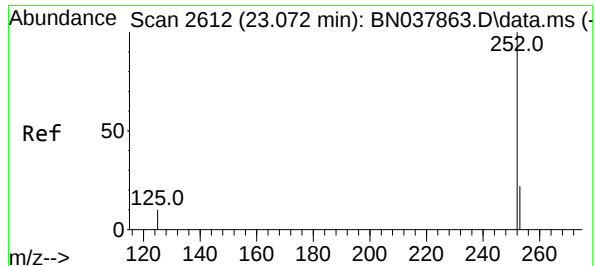
Ion Ratio Lower Upper

252 100

253 31.0 19.4 29.0#

125 31.3 13.0 19.4#





#38

Benzo(k)fluoranthene

Concen: 0.093 ng

RT: 23.075 min Scan# 2612

Delta R.T. 0.003 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

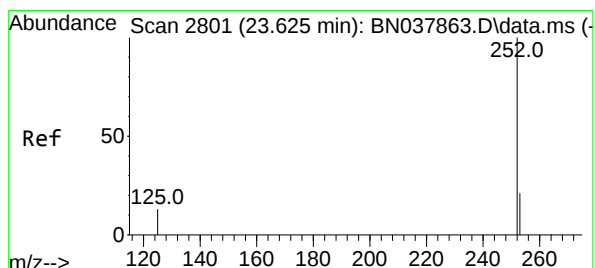
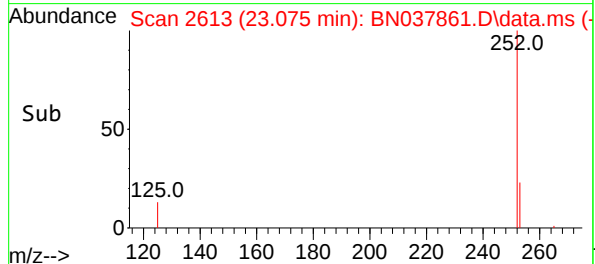
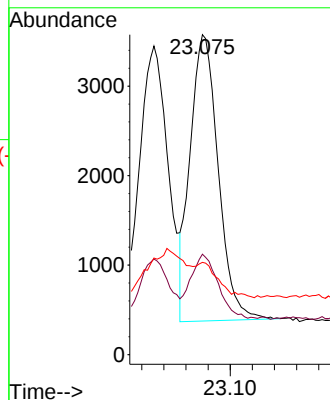
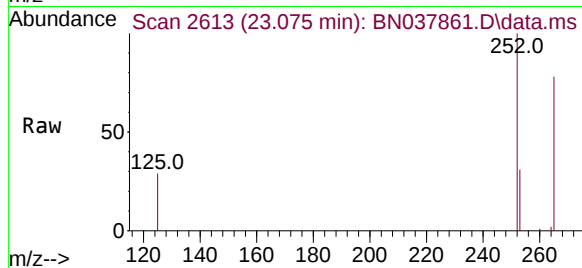
Tgt Ion:252 Resp: 5642

Ion Ratio Lower Upper

252 100

253 31.4 19.5 29.3#

125 28.8 13.0 19.4#



#39

Benzo(a)pyrene

Concen: 0.092 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

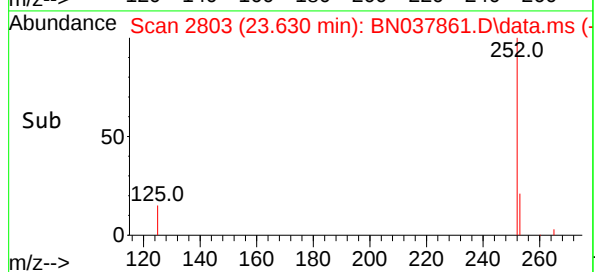
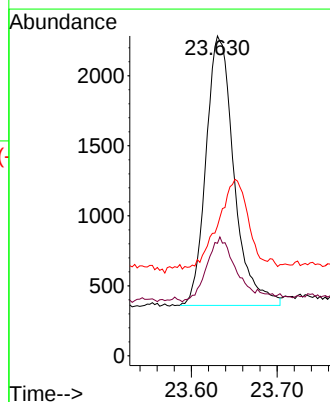
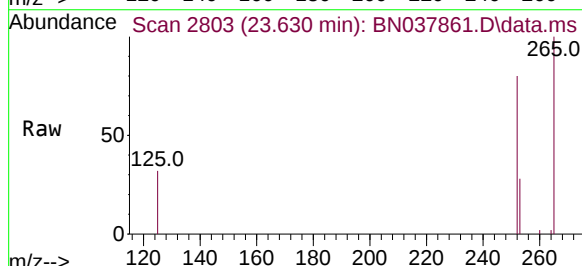
Tgt Ion:252 Resp: 4368

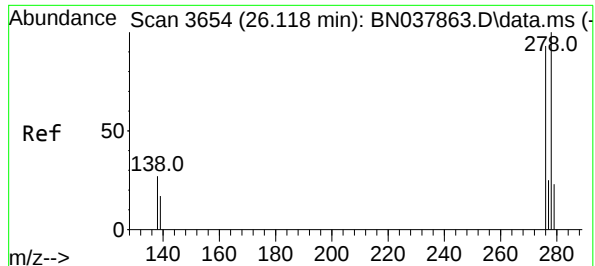
Ion Ratio Lower Upper

252 100

253 35.2 20.6 30.8#

125 40.6 16.7 25.1#





#40

Dibenzo(a,h)anthracene

Concen: 0.090 ng

RT: 26.127 min Scan# 30

Delta R.T. 0.009 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.1

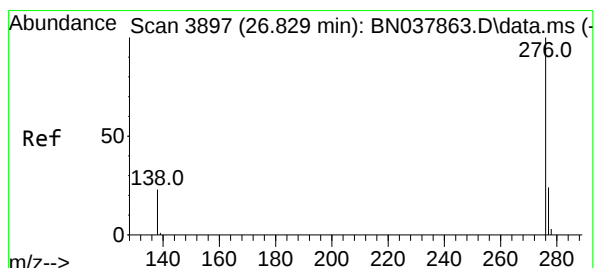
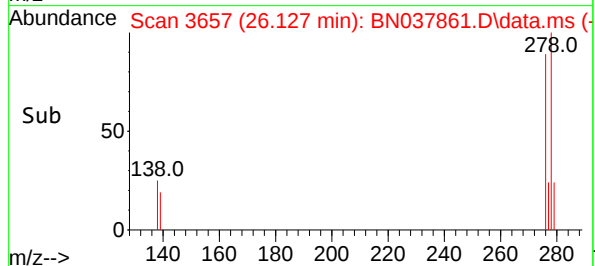
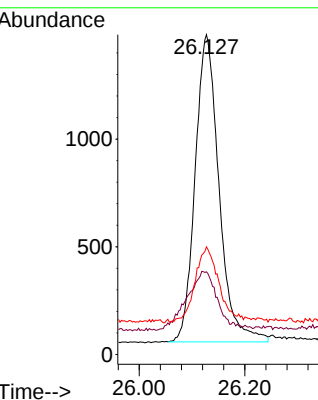
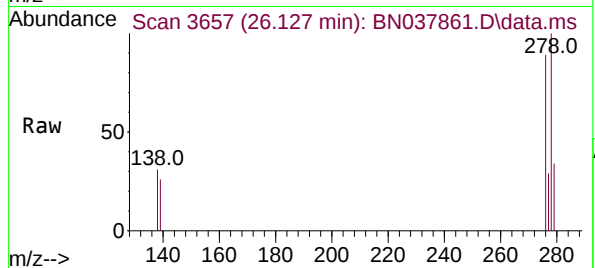
Tgt Ion:278 Resp: 4476

Ion Ratio Lower Upper

278 100

139 25.9 15.4 23.2#

279 33.7 20.8 31.2#



#41

Benzo(g,h,i)perylene

Concen: 0.094 ng

RT: 26.832 min Scan# 3898

Delta R.T. 0.003 min

Lab File: BN037861.D

Acq: 23 Sep 2025 12:13

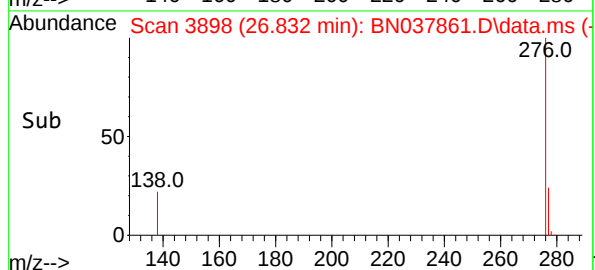
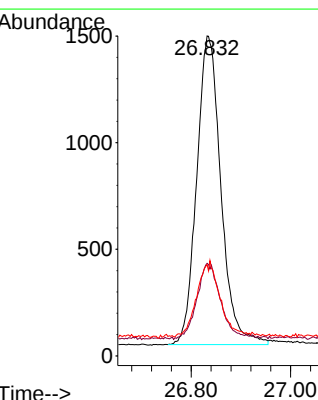
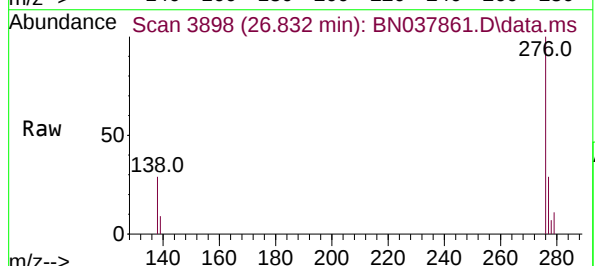
Tgt Ion:276 Resp: 4900

Ion Ratio Lower Upper

276 100

277 28.9 20.2 30.4

138 28.5 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
 Data File : BN037862.D  
 Acq On : 23 Sep 2025 12:49  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Quant Time: Sep 23 16:21:29 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:17:53 2025  
 Response via : Initial Calibration

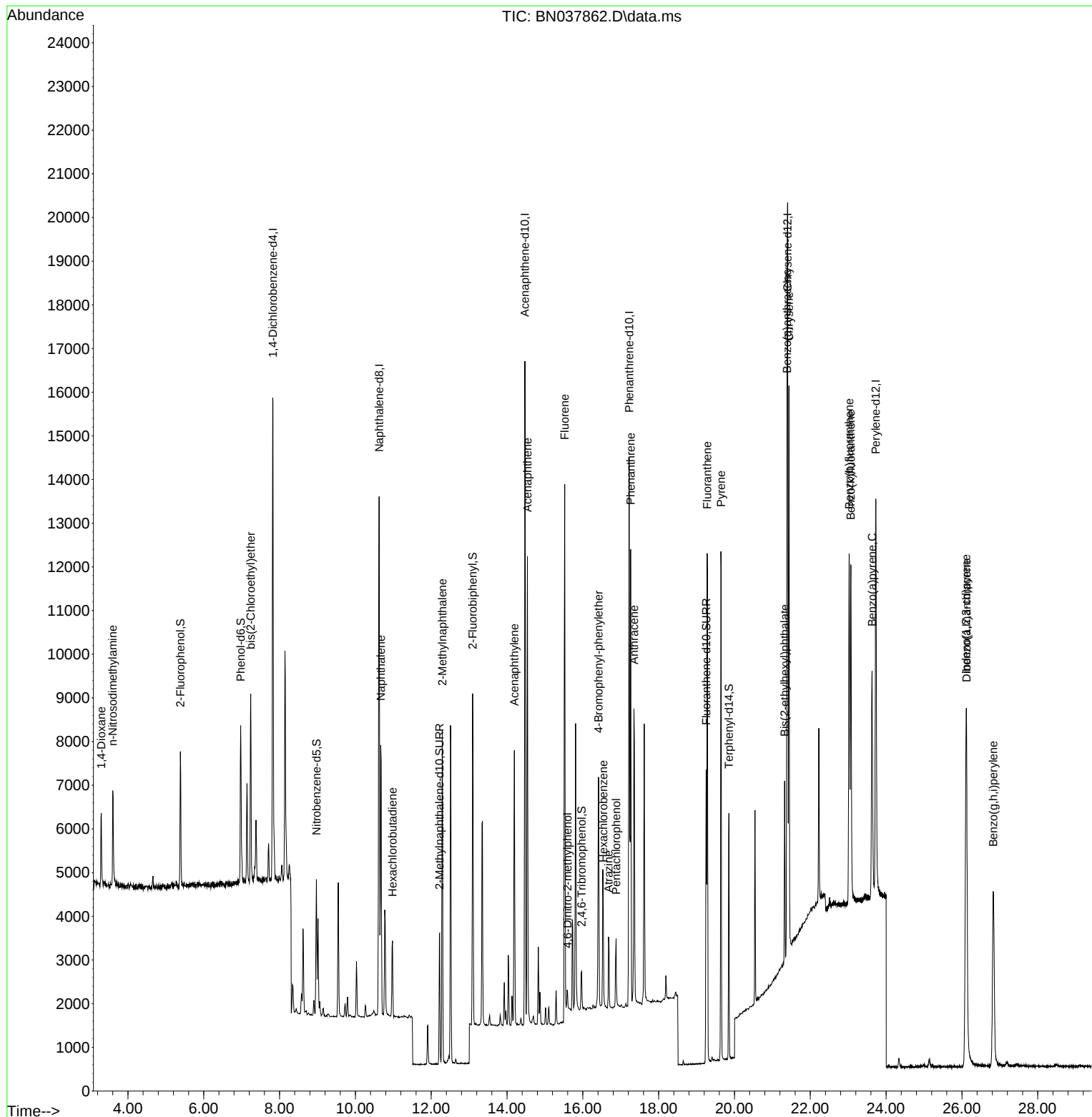
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.826  | 152  | 5544     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.626 | 136  | 15739    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.473 | 164  | 8069     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.223 | 188  | 15912    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.402 | 240  | 13158    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.730 | 264  | 12974    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.384  | 112  | 2553     | 0.202 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.973  | 99   | 3326     | 0.200 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.971  | 82   | 2278     | 0.190 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.217 | 152  | 4078     | 0.187 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.969 | 330  | 573      | 0.176 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.094 | 172  | 6579     | 0.199 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.253 | 212  | 7304     | 0.182 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.852 | 244  | 5201     | 0.198 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.297  | 88   | 1144     | 0.203 | ng    | 97       |
| 3) n-Nitrosodimethylamine     | 3.601  | 42   | 1500     | 0.200 | ng    | # 94     |
| 6) bis(2-Chloroethyl)ether    | 7.241  | 93   | 3039     | 0.197 | ng    | 98       |
| 9) Naphthalene                | 10.669 | 128  | 8573     | 0.198 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.979 | 225  | 1450     | 0.196 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.293 | 142  | 5361     | 0.189 | ng    | 100      |
| 16) Acenaphthylene            | 14.195 | 152  | 6943     | 0.190 | ng    | 99       |
| 17) Acenaphthene              | 14.537 | 154  | 4963     | 0.190 | ng    | 98       |
| 18) Fluorene                  | 15.523 | 166  | 5870     | 0.186 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198  | 325      | 0.230 | ng    | # 64     |
| 21) 4-Bromophenyl-phenylether | 16.416 | 248  | 1965     | 0.190 | ng    | 97       |
| 22) Hexachlorobenzene         | 16.540 | 284  | 2483     | 0.198 | ng    | 99       |
| 23) Atrazine                  | 16.677 | 200  | 1442     | 0.183 | ng    | # 89     |
| 24) Pentachlorophenol         | 16.876 | 266  | 804      | 0.186 | ng    | 99       |
| 25) Phenanthrene              | 17.260 | 178  | 10109    | 0.193 | ng    | 99       |
| 26) Anthracene                | 17.347 | 178  | 8235     | 0.181 | ng    | 99       |
| 28) Fluoranthene              | 19.280 | 202  | 10466    | 0.181 | ng    | 100      |
| 30) Pyrene                    | 19.643 | 202  | 10528    | 0.203 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.384 | 228  | 8943     | 0.194 | ng    | 99       |
| 33) Chrysene                  | 21.438 | 228  | 10042    | 0.202 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.322 | 149  | 3892     | 0.214 | ng    | # 100    |
| 36) Indeno(1,2,3-cd)pyrene    | 26.110 | 276  | 10845    | 0.183 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 23.025 | 252  | 10420    | 0.186 | ng    | # 91     |
| 38) Benzo(k)fluoranthene      | 23.069 | 252  | 10290    | 0.183 | ng    | # 93     |
| 39) Benzo(a)pyrene            | 23.628 | 252  | 8405     | 0.190 | ng    | # 88     |
| 40) Dibenzo(a,h)anthracene    | 26.121 | 278  | 8321     | 0.180 | ng    | 92       |
| 41) Benzo(g,h,i)perylene      | 26.826 | 276  | 8956     | 0.184 | ng    | 97       |

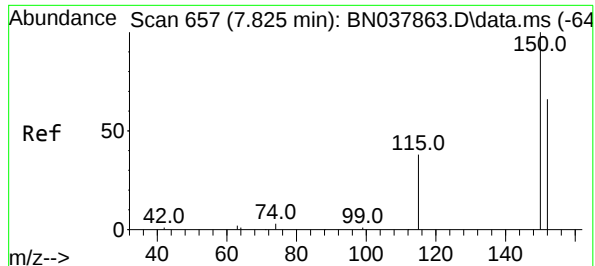
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
Data File : BN037862.D  
Acq On : 23 Sep 2025 12:49  
Operator : RC/JU  
Sample : SSTDICC0.2  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

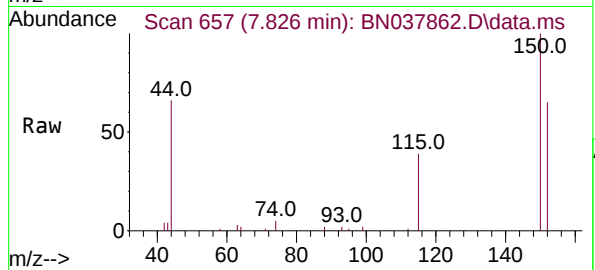
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QLast Update : Tue Sep 23 16:17:53 2025  
Response via : Initial Calibration



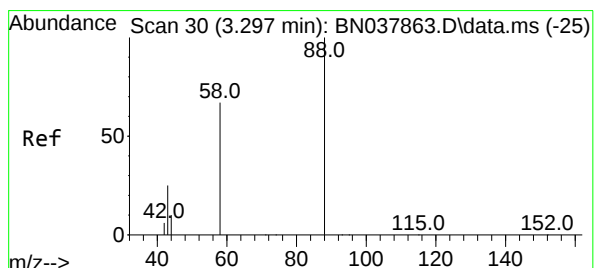
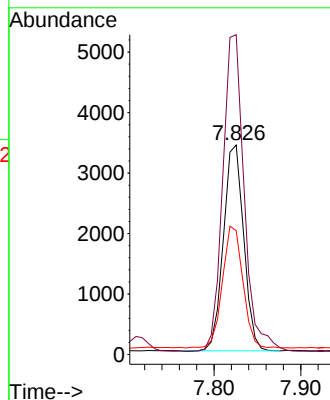
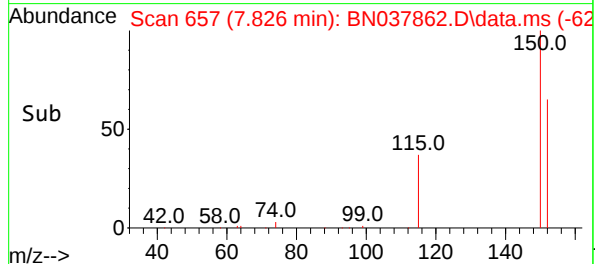


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.826 min Scan# 61  
Delta R.T. 0.001 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

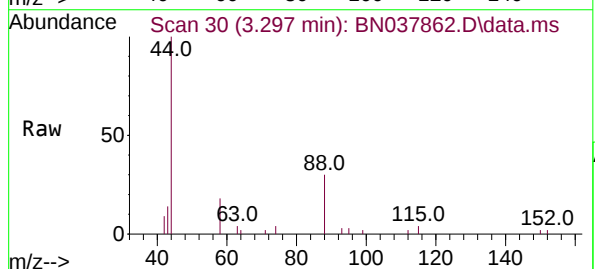
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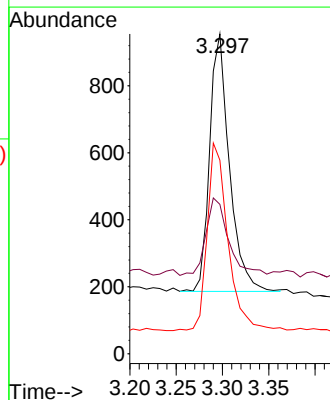
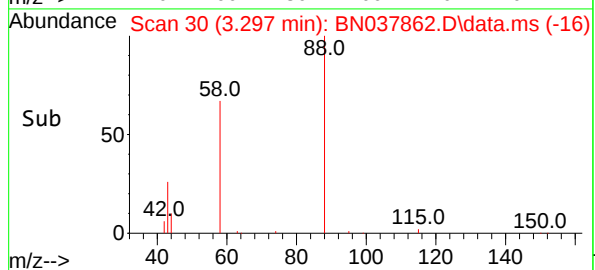
Tgt Ion:152 Resp: 5544  
Ion Ratio Lower Upper  
152 100  
150 152.7 121.0 181.4  
115 59.1 47.4 71.0

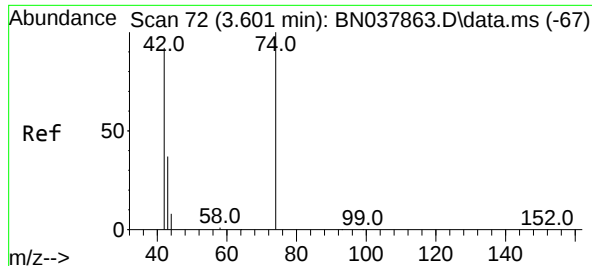


#2  
1,4-Dioxane  
Concen: 0.203 ng  
RT: 3.297 min Scan# 30  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49



Tgt Ion: 88 Resp: 1144  
Ion Ratio Lower Upper  
88 100  
43 34.1 26.6 39.8  
58 76.4 58.9 88.3

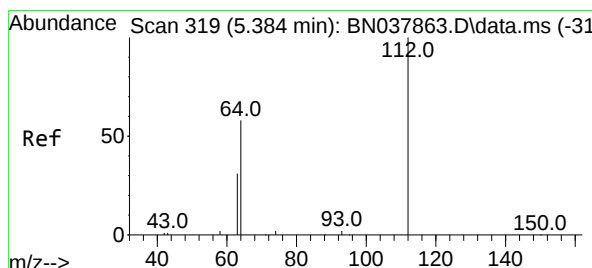
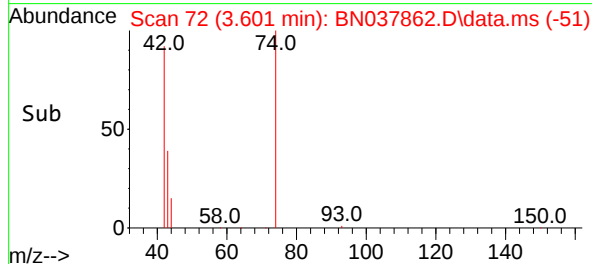
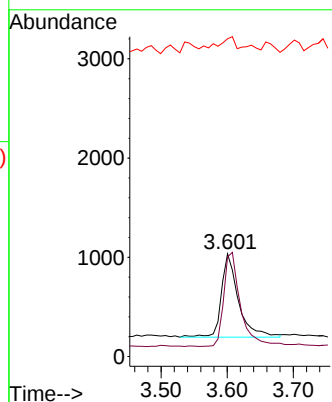
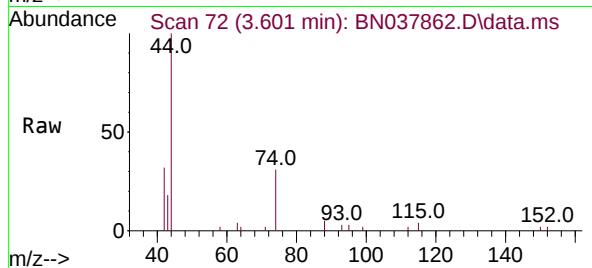




#3  
n-Nitrosodimethylamine  
Concen: 0.200 ng  
RT: 3.601 min Scan# 72  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

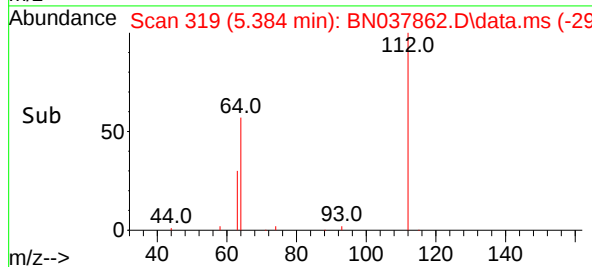
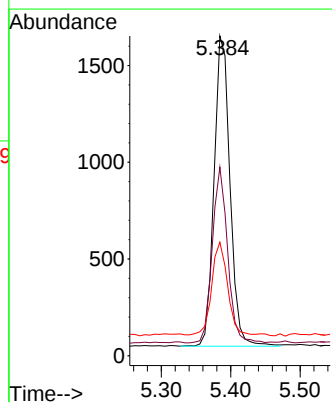
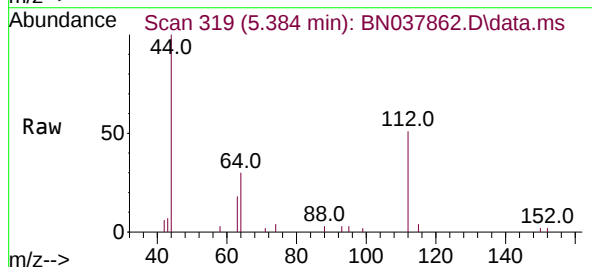
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ClientSampleId :  
SSTDICC0.2

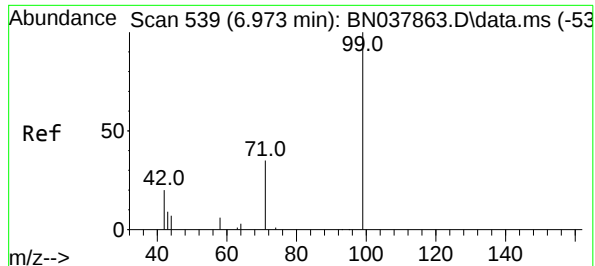
Tgt Ion: 42 Resp: 1500  
Ion Ratio Lower Upper  
42 100  
74 112.1 93.4 140.0  
44 20.9 22.2 33.4#



#4  
2-Fluorophenol  
Concen: 0.202 ng  
RT: 5.384 min Scan# 319  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

Tgt Ion: 112 Resp: 2553  
Ion Ratio Lower Upper  
112 100  
64 54.6 44.6 66.8  
63 30.9 24.9 37.3

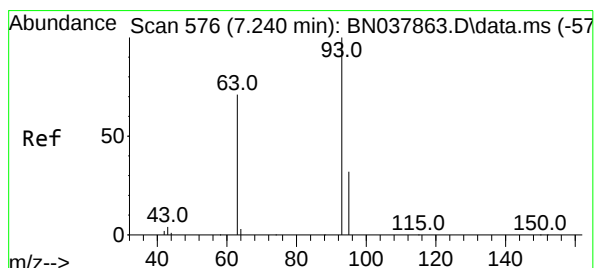
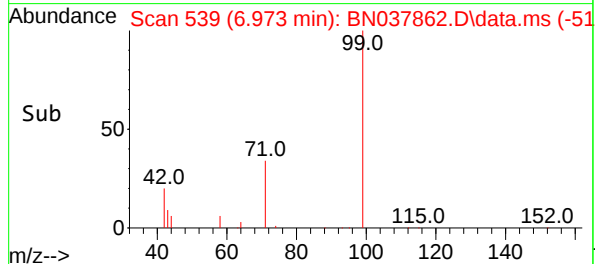
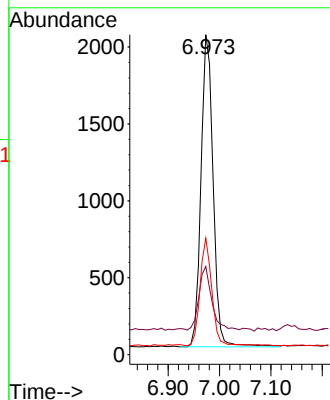
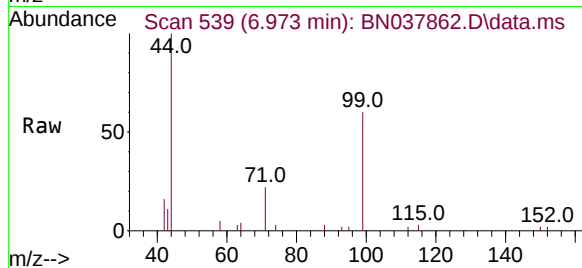




#5  
Phenol-d6  
Concen: 0.200 ng  
RT: 6.973 min Scan# 539  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

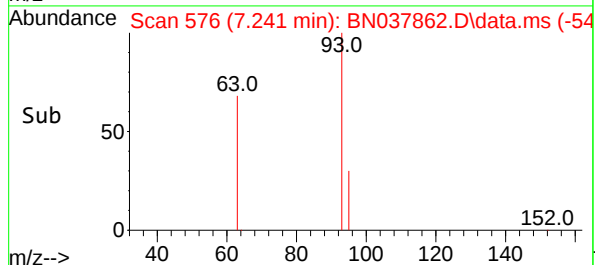
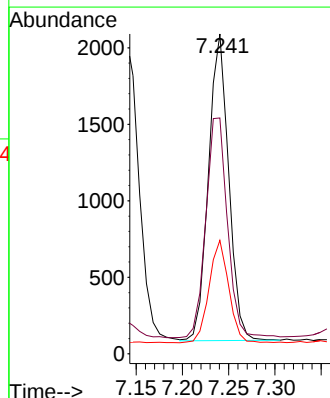
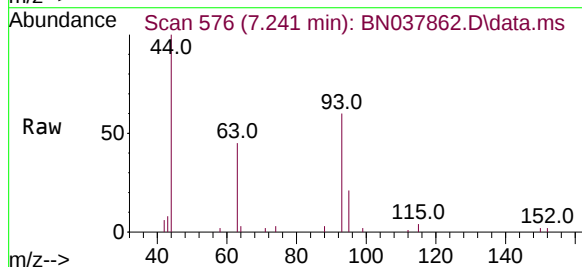
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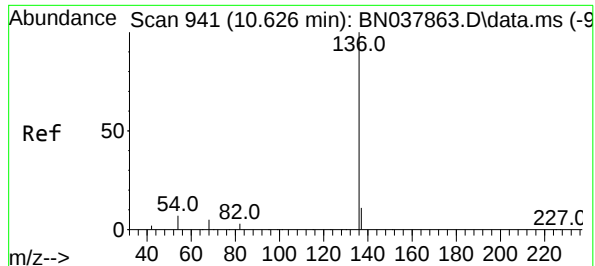
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 3326  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 21.3  | 17.2  | 25.8  |
| 71       | 33.3  | 27.3  | 40.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.197 ng  
RT: 7.241 min Scan# 576  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 3039  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 77.1  | 60.1  | 90.1  |
| 95       | 33.0  | 25.4  | 38.2  |

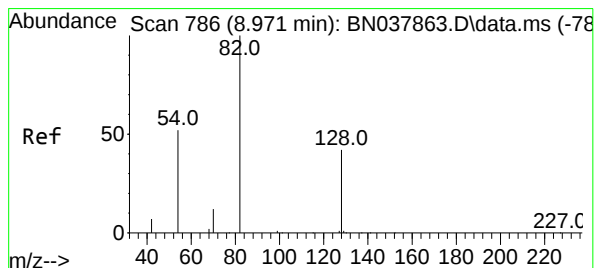
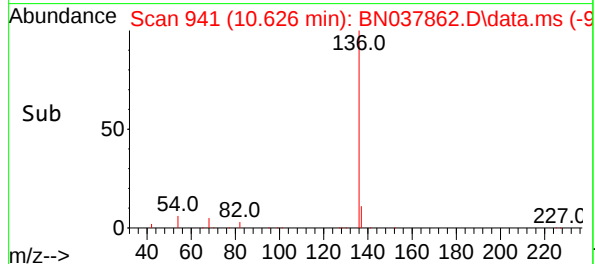
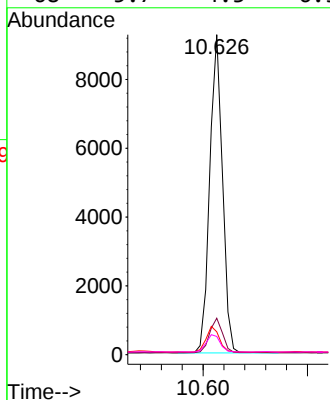
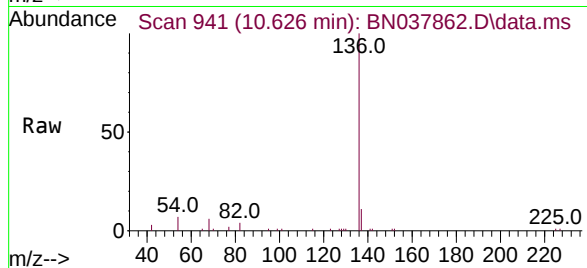




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.626 min Scan# 941  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

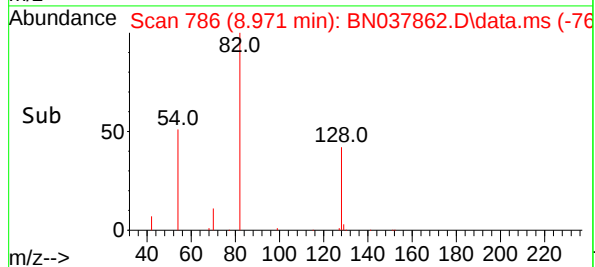
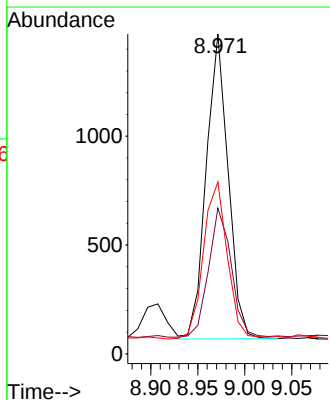
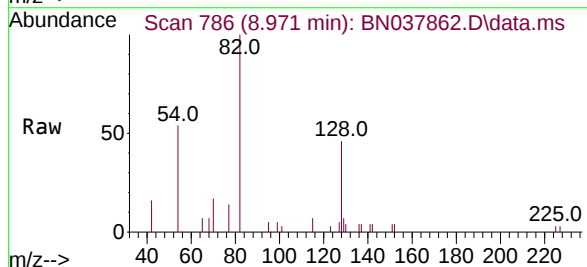
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ClientSampleId :  
SSTDICC0.2

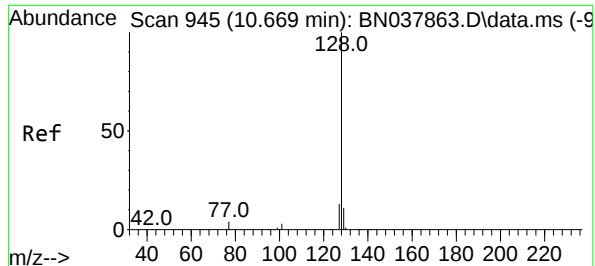
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 15739 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.4  | 9.0   | 13.4  |
| 54       | 7.1   | 5.8   | 8.8   |
| 68       | 5.7   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.190 ng  
RT: 8.971 min Scan# 786  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2278  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 45.6  | 34.8  | 52.2  |
| 54       | 53.7  | 42.2  | 63.2  |

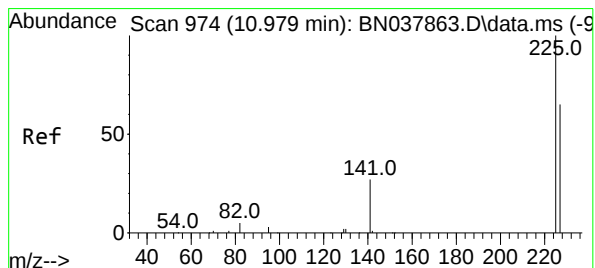
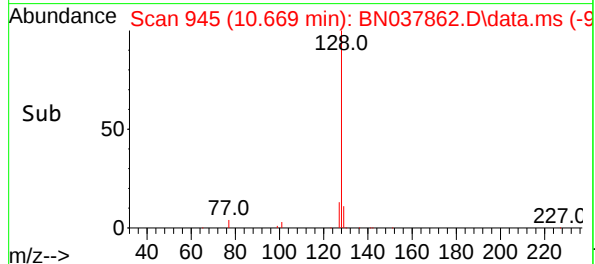
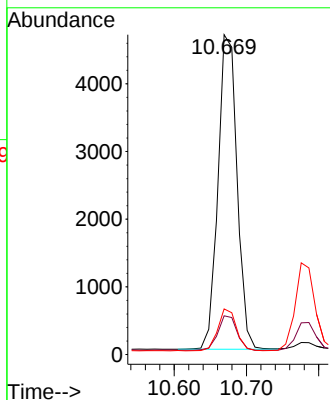
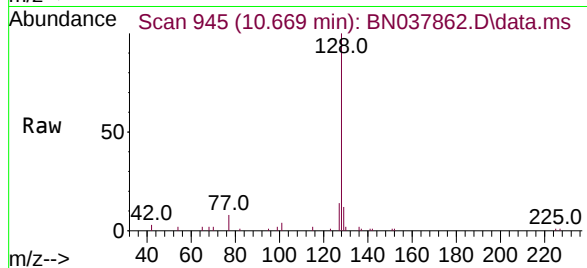




#9  
Naphthalene  
Concen: 0.198 ng  
RT: 10.669 min Scan# 945  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

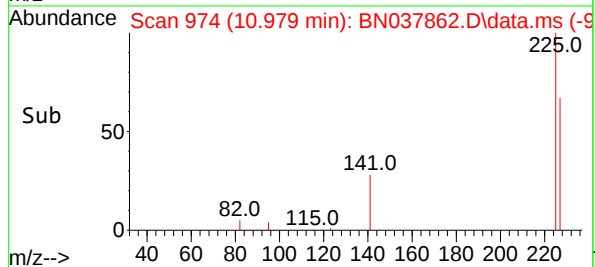
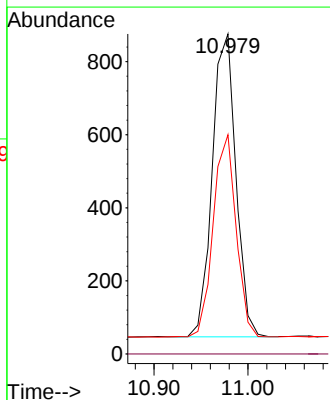
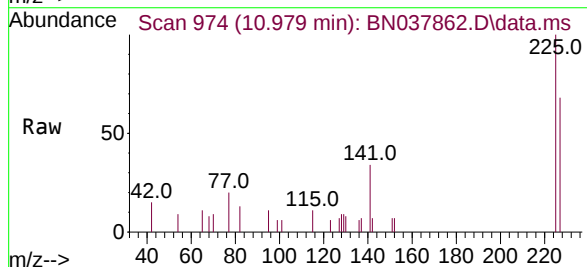
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

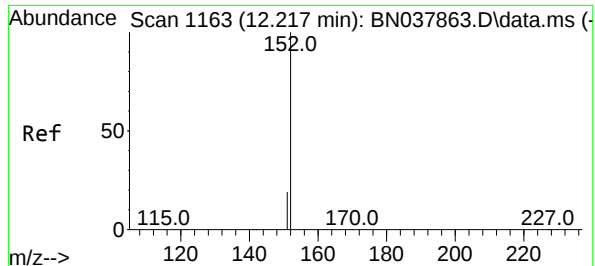
| Tgt Ion   | 128   | Resp  | 8573 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 12.1  | 9.2   | 13.8 |
| 127       | 14.3  | 11.0  | 16.6 |



#10  
Hexachlorobutadiene  
Concen: 0.196 ng  
RT: 10.979 min Scan# 974  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

| Tgt Ion   | 225   | Resp  | 1450 |
|-----------|-------|-------|------|
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 0.0   | 0.0   | 0.0  |
| 227       | 65.0  | 51.4  | 77.2 |

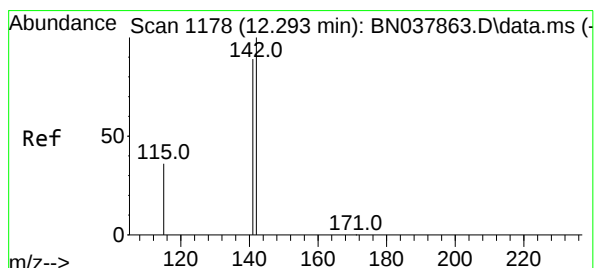
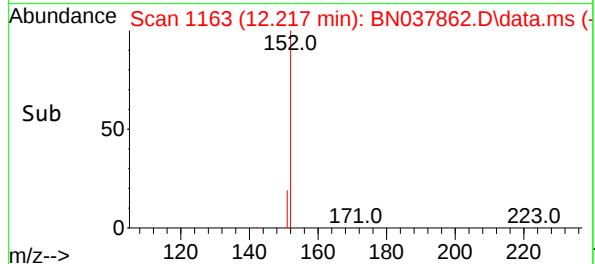
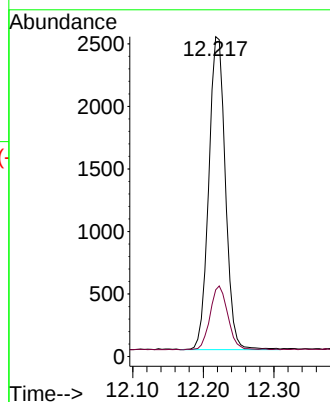
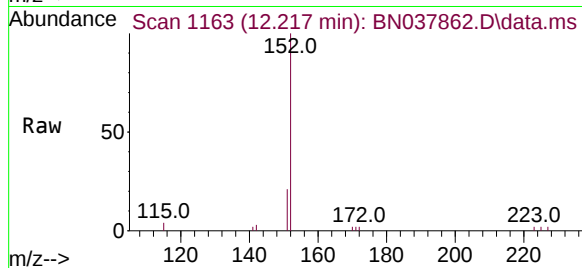




#11  
2-Methylnaphthalene-d10  
Concen: 0.187 ng  
RT: 12.217 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

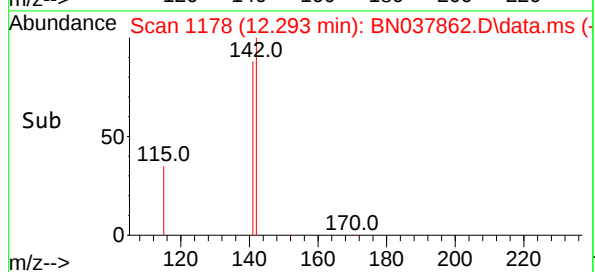
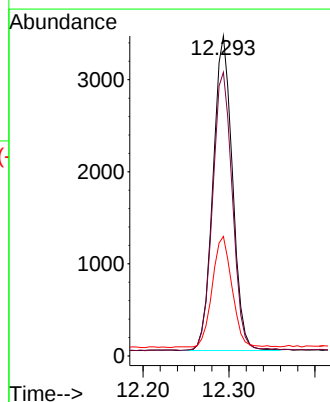
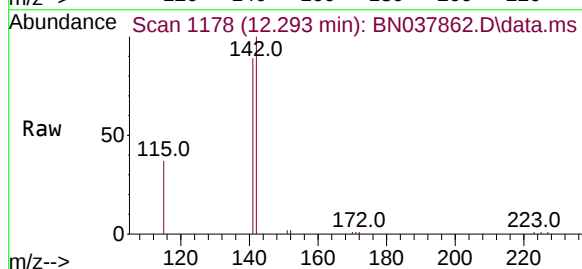
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

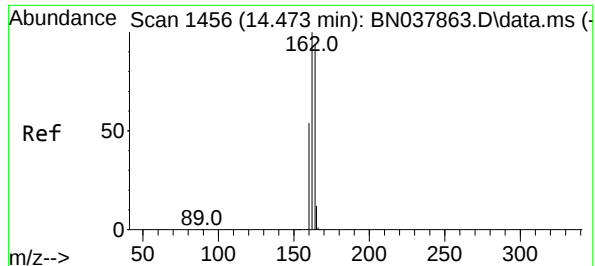
Tgt Ion:152 Resp: 4078  
Ion Ratio Lower Upper  
152 100  
151 21.8 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 0.189 ng  
RT: 12.293 min Scan# 1178  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

Tgt Ion:142 Resp: 5361  
Ion Ratio Lower Upper  
142 100  
141 88.6 71.2 106.8  
115 37.3 29.7 44.5

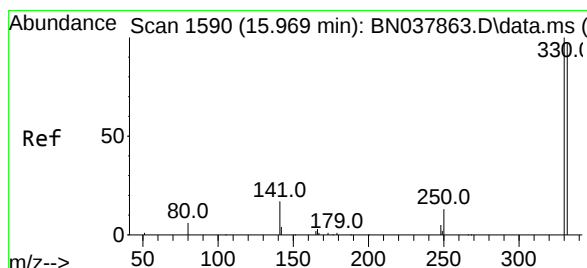
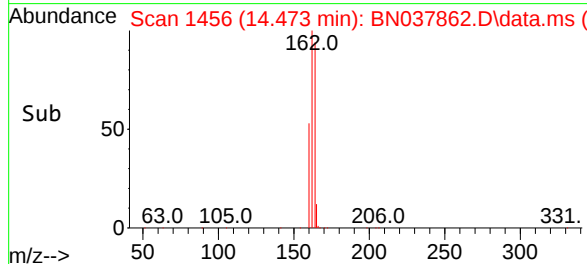
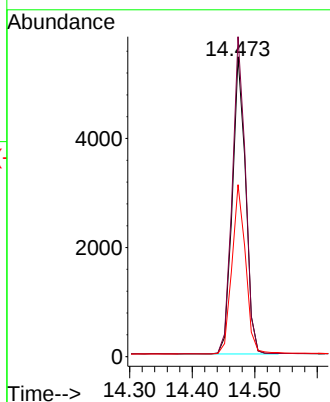
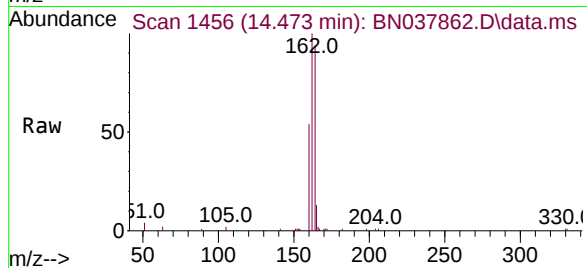




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.473 min Scan# 1456  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

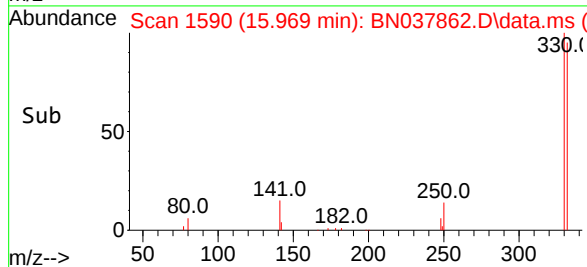
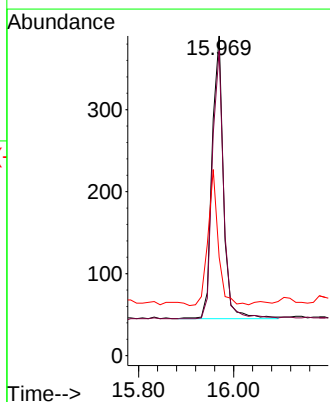
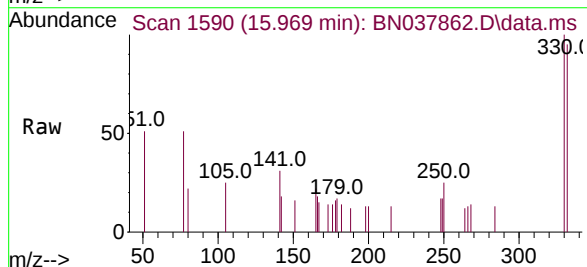
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.2

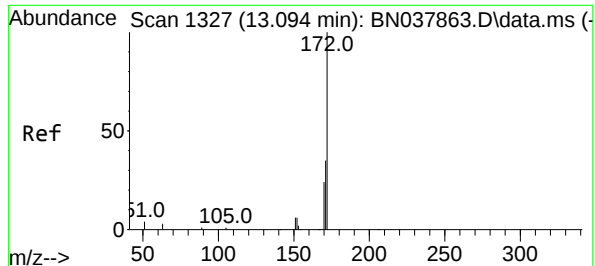
Tgt Ion:164 Resp: 8069  
Ion Ratio Lower Upper  
164 100  
162 106.7 84.8 127.2  
160 57.3 46.1 69.1



#14  
2,4,6-Tribromophenol  
Concen: 0.176 ng  
RT: 15.969 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

Tgt Ion:330 Resp: 573  
Ion Ratio Lower Upper  
330 100  
332 94.2 77.2 115.8  
141 44.0 37.2 55.8





#15

2-Fluorobiphenyl

Concen: 0.199 ng

RT: 13.094 min Scan# 1327

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

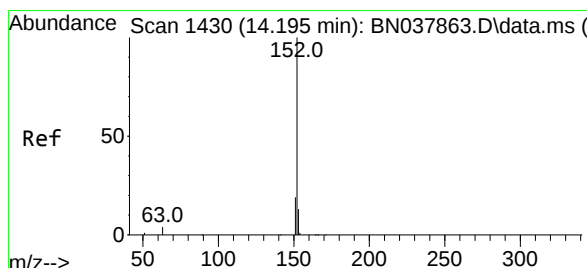
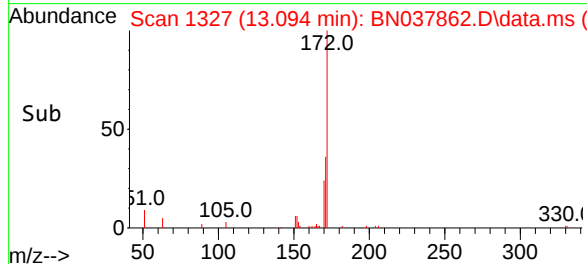
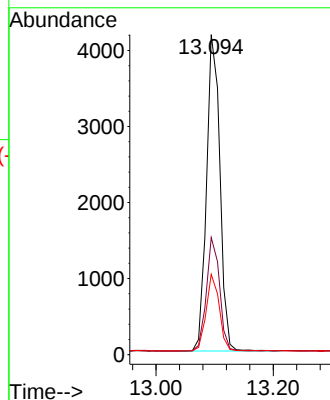
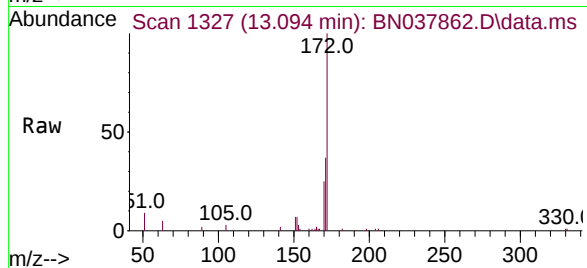
Tgt Ion:172 Resp: 6579

Ion Ratio Lower Upper

172 100

171 36.6 28.6 43.0

170 25.1 19.7 29.5



#16

Acenaphthylene

Concen: 0.190 ng

RT: 14.195 min Scan# 1430

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

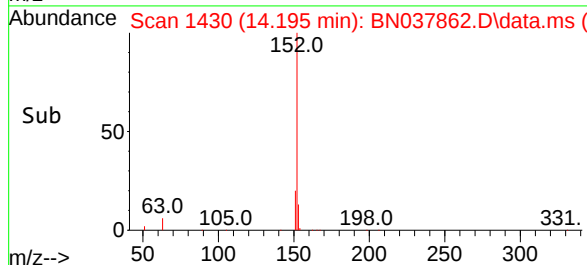
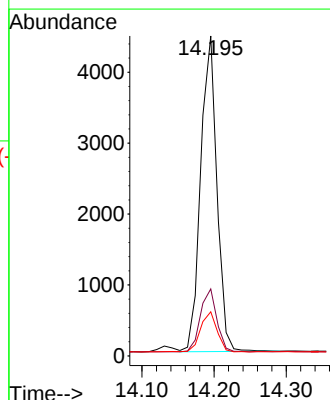
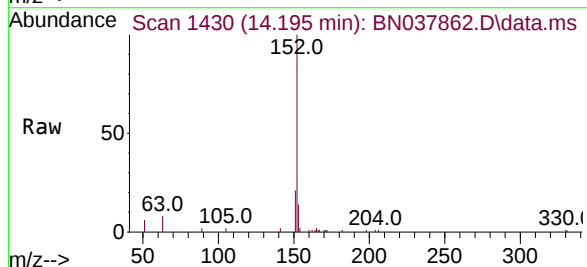
Tgt Ion:152 Resp: 6943

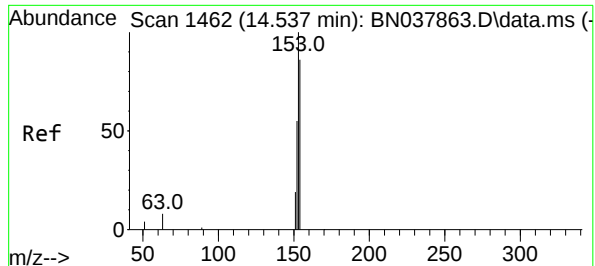
Ion Ratio Lower Upper

152 100

151 20.4 15.8 23.8

153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 0.190 ng

RT: 14.537 min Scan# 1462

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

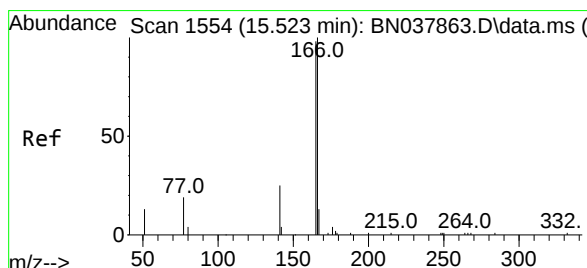
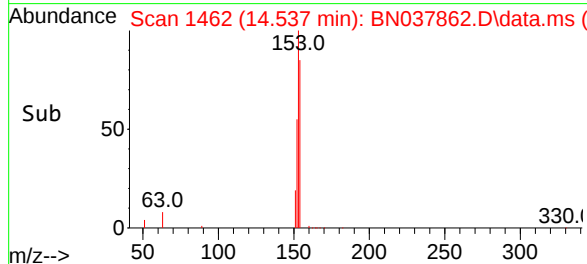
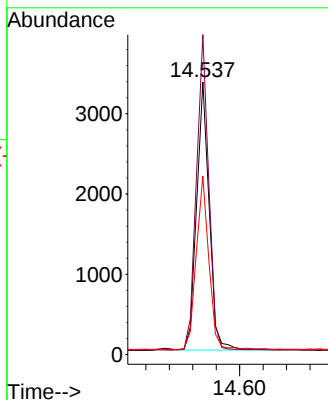
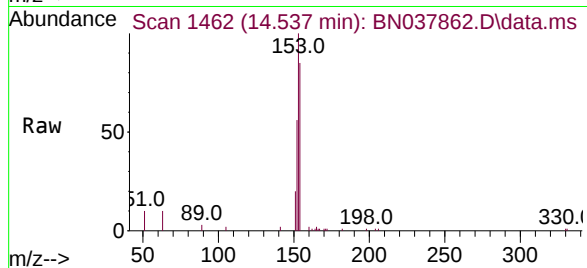
Tgt Ion:154 Resp: 4963

Ion Ratio Lower Upper

154 100

153 115.4 90.5 135.7

152 65.5 51.8 77.8



#18

Fluorene

Concen: 0.186 ng

RT: 15.523 min Scan# 1554

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

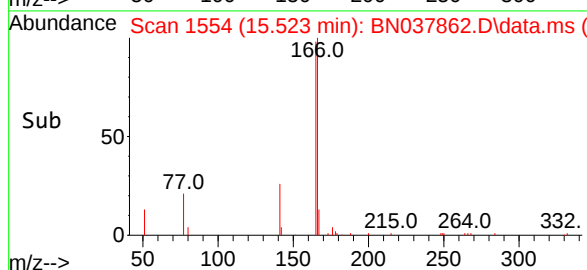
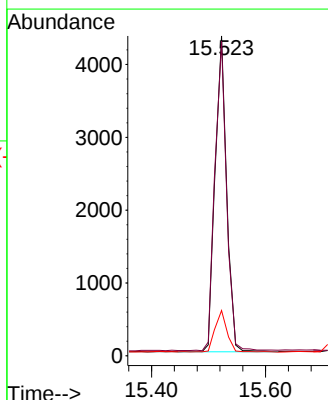
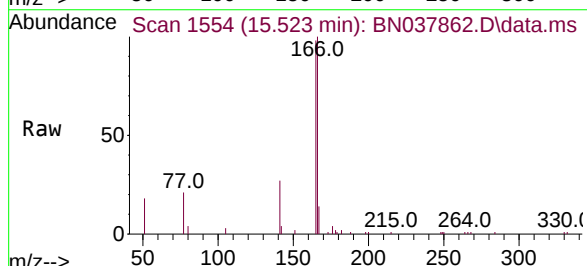
Tgt Ion:166 Resp: 5870

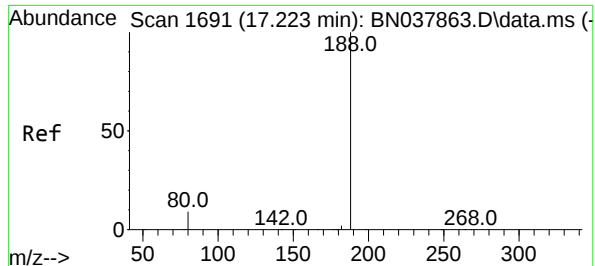
Ion Ratio Lower Upper

166 100

165 99.4 79.0 118.4

167 13.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

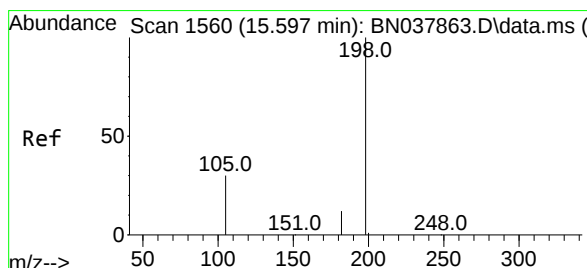
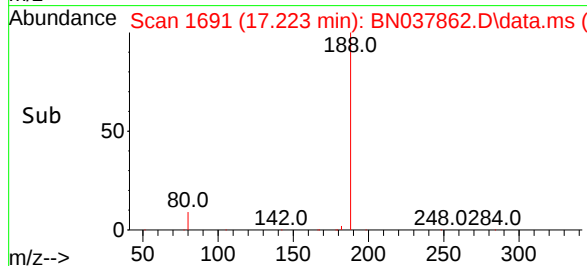
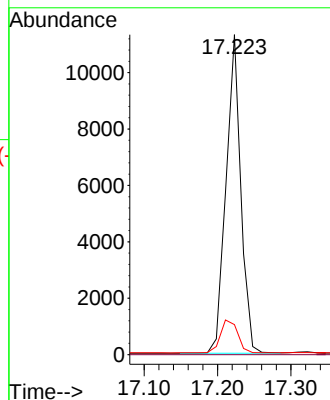
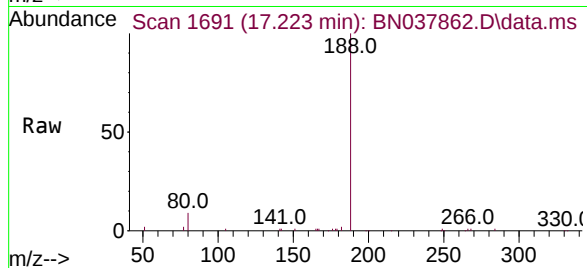
Tgt Ion:188 Resp: 15912

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.4 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.230 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

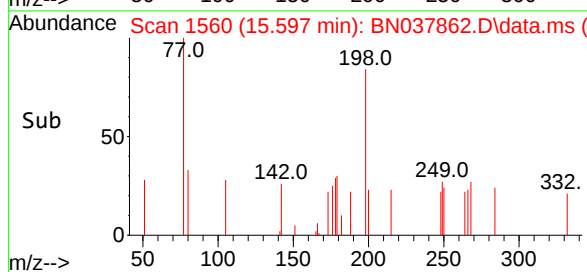
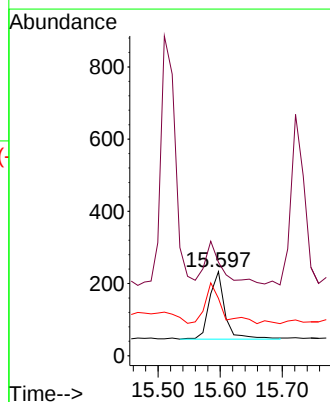
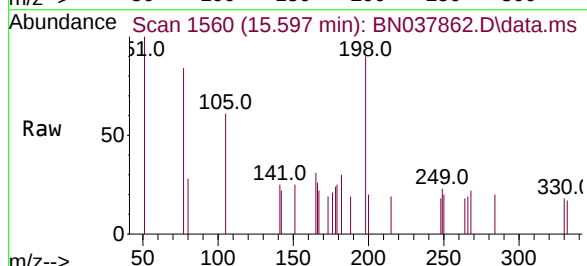
Tgt Ion:198 Resp: 325

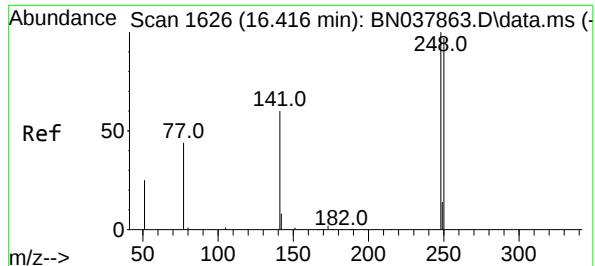
Ion Ratio Lower Upper

198 100

51 111.2 59.1 88.7#

105 68.2 41.3 61.9#

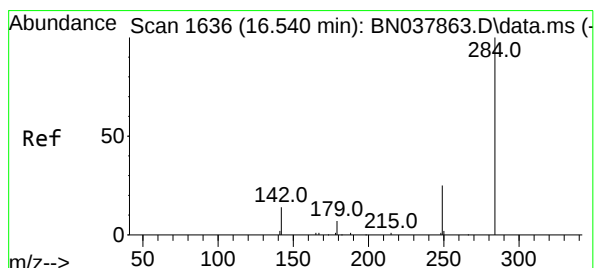
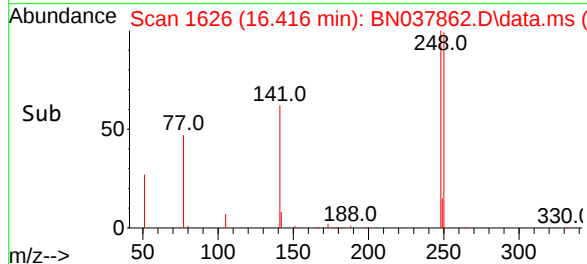
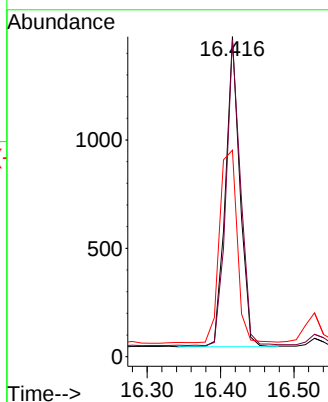
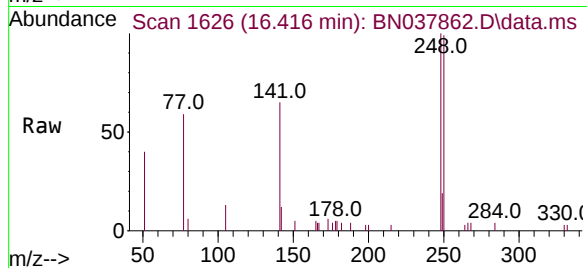




#21  
4-Bromophenyl-phenylether  
Concen: 0.190 ng  
RT: 16.416 min Scan# 1626  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

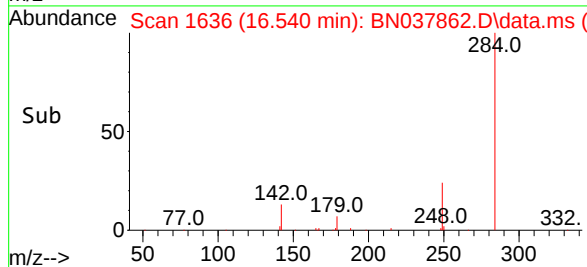
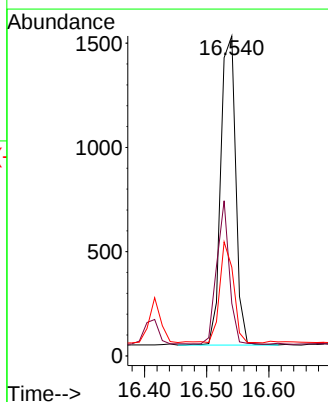
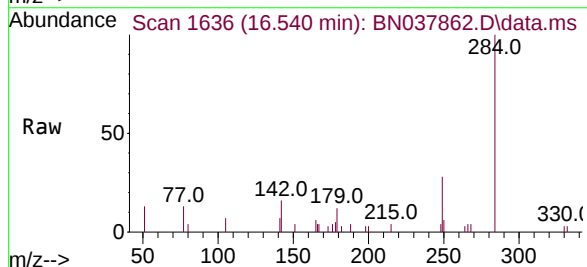
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

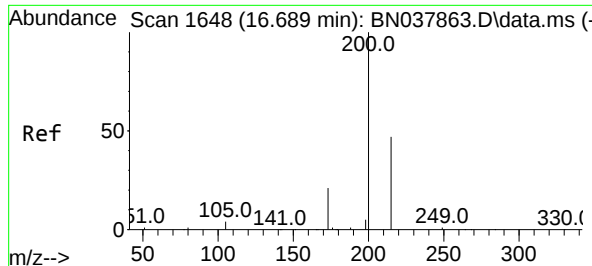
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 98.8  | 77.6  | 116.4 |
| 141     | 64.5  | 48.8  | 73.2  |



#22  
Hexachlorobenzene  
Concen: 0.198 ng  
RT: 16.540 min Scan# 1636  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 39.2  | 30.9  | 46.3  |
| 249     | 30.3  | 23.9  | 35.9  |

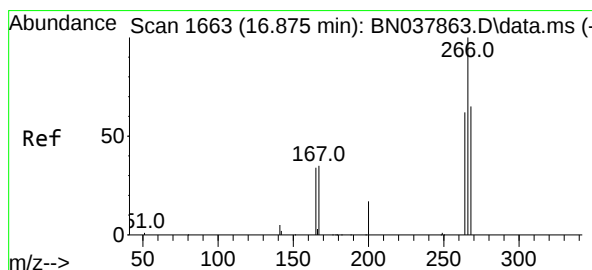
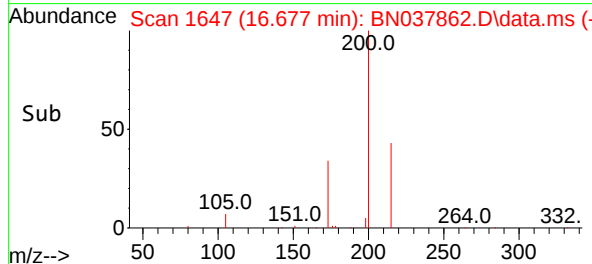
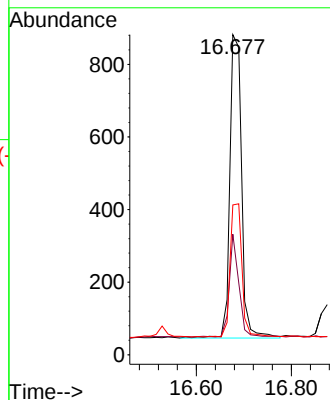
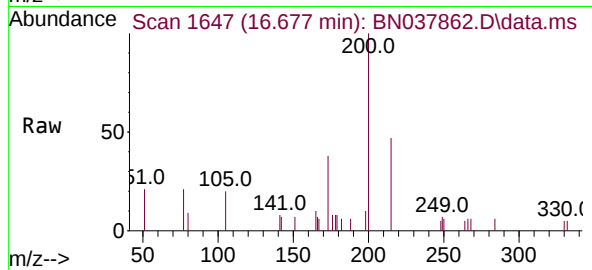




#23  
Atrazine  
Concen: 0.183 ng  
RT: 16.677 min Scan# 1647  
Delta R.T. -0.012 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

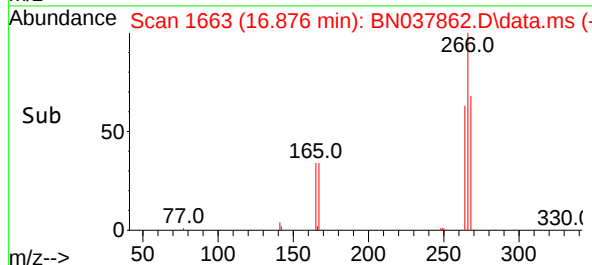
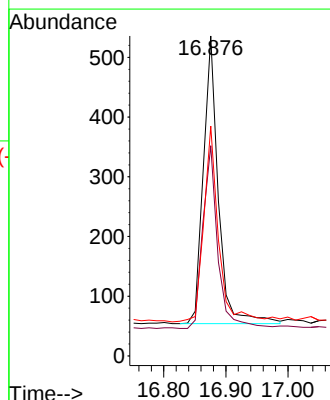
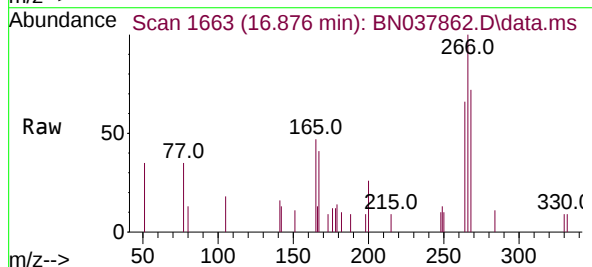
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

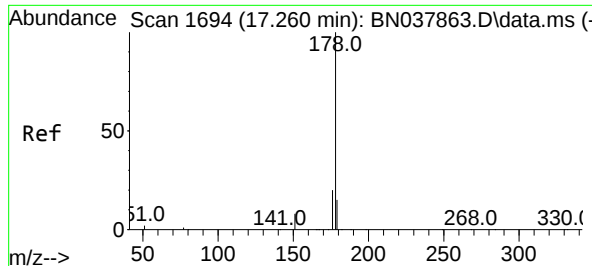
Tgt Ion:200 Resp: 1442  
Ion Ratio Lower Upper  
200 100  
173 37.6 18.3 27.5#  
215 46.8 38.6 58.0



#24  
Pentachlorophenol  
Concen: 0.186 ng  
RT: 16.876 min Scan# 1663  
Delta R.T. 0.001 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

Tgt Ion:266 Resp: 804  
Ion Ratio Lower Upper  
266 100  
264 63.3 50.9 76.3  
268 66.4 54.3 81.5





#25

Phenanthrene

Concen: 0.193 ng

RT: 17.260 min Scan# 1694

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

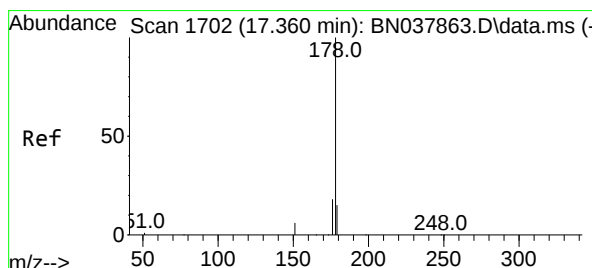
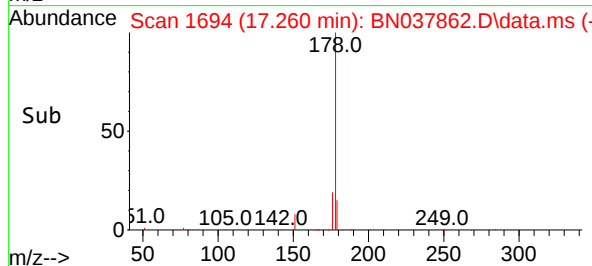
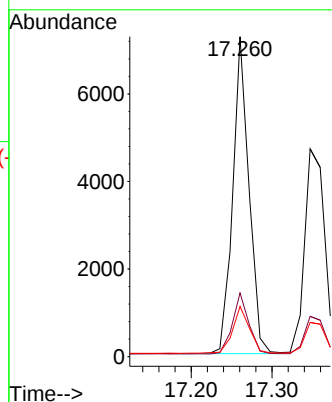
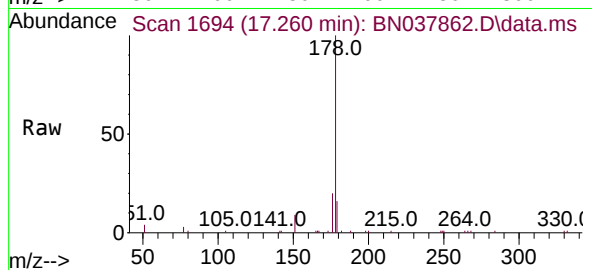
Tgt Ion:178 Resp: 10109

Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

179 15.6 12.3 18.5



#26

Anthracene

Concen: 0.181 ng

RT: 17.347 min Scan# 1701

Delta R.T. -0.012 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

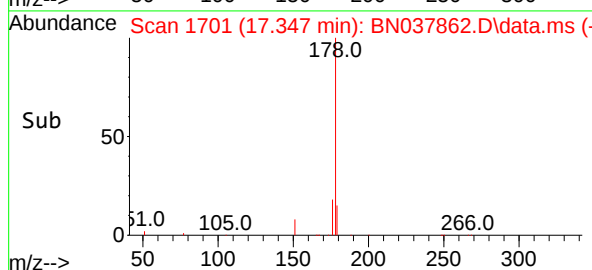
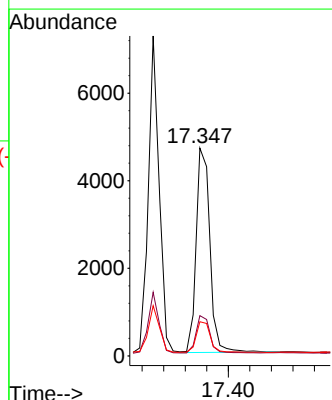
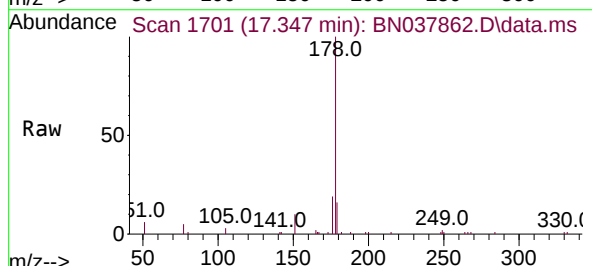
Tgt Ion:178 Resp: 8235

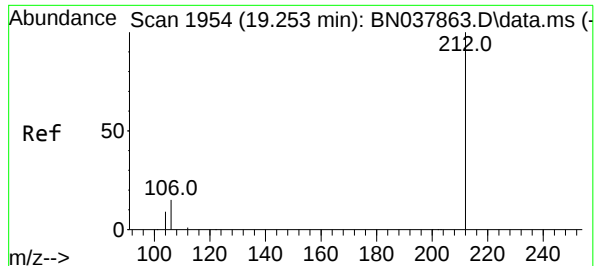
Ion Ratio Lower Upper

178 100

176 18.1 15.0 22.4

179 15.7 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.182 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2

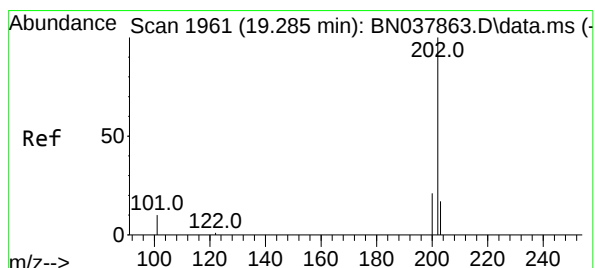
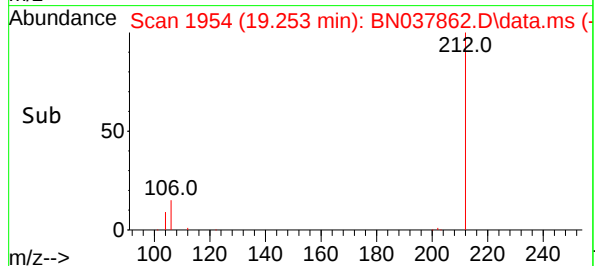
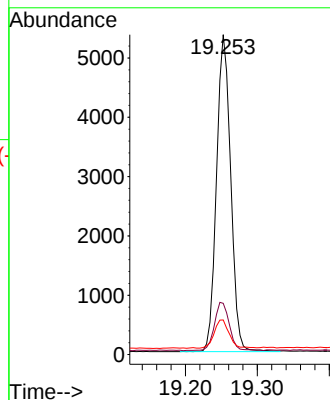
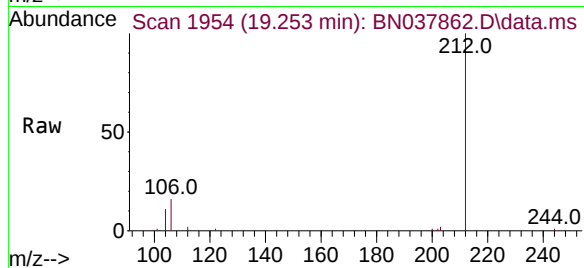
Tgt Ion:212 Resp: 7304

Ion Ratio Lower Upper

212 100

106 16.1 12.6 19.0

104 9.3 7.4 11.0



#28

Fluoranthene

Concen: 0.181 ng

RT: 19.280 min Scan# 1960

Delta R.T. -0.005 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

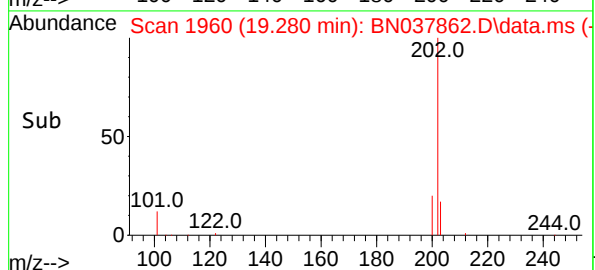
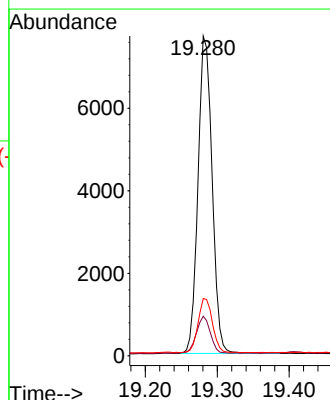
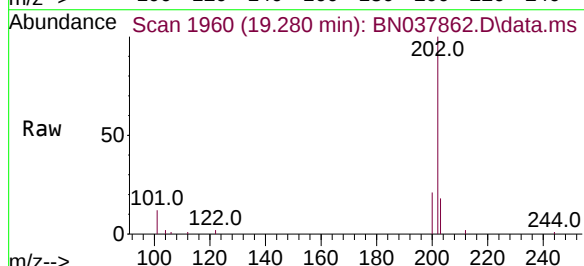
Tgt Ion:202 Resp: 10466

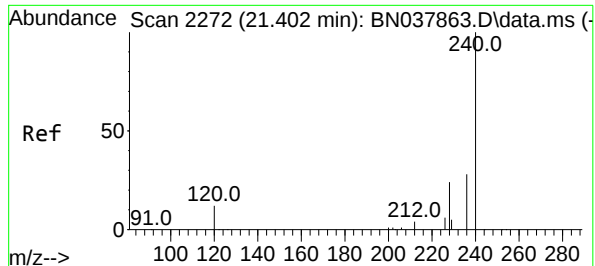
Ion Ratio Lower Upper

202 100

101 11.8 9.3 13.9

203 17.2 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

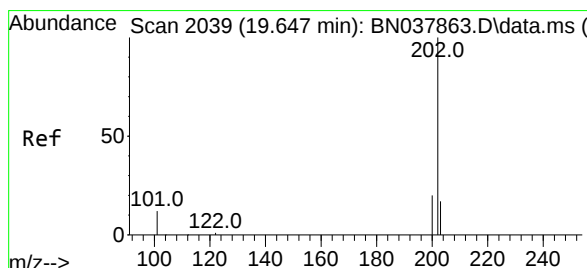
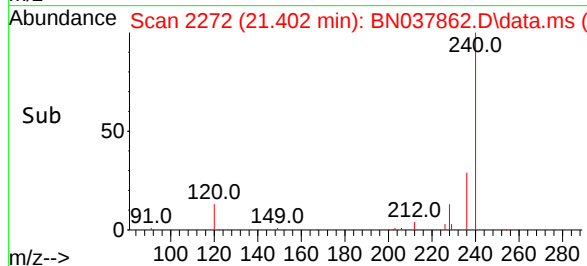
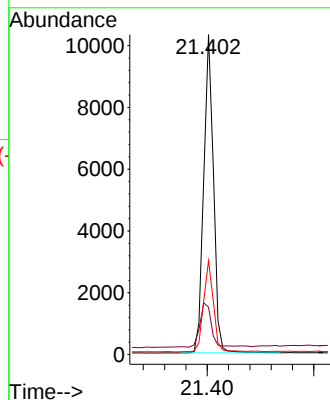
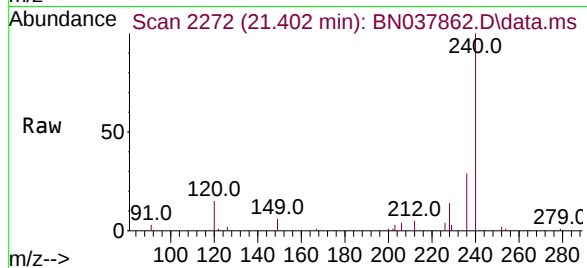
Tgt Ion:240 Resp: 13158

Ion Ratio Lower Upper

240 100

120 14.8 11.4 17.2

236 29.3 23.0 34.6



#30

Pyrene

Concen: 0.203 ng

RT: 19.643 min Scan# 2038

Delta R.T. -0.005 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

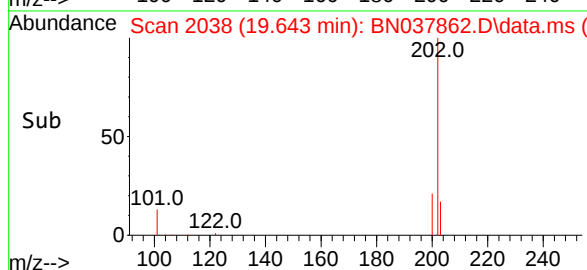
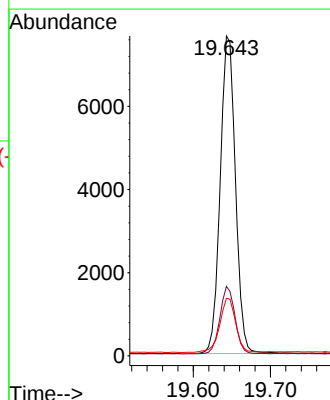
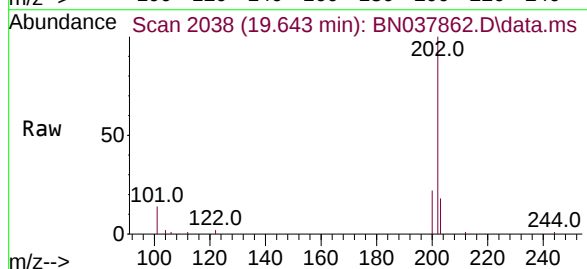
Tgt Ion:202 Resp: 10528

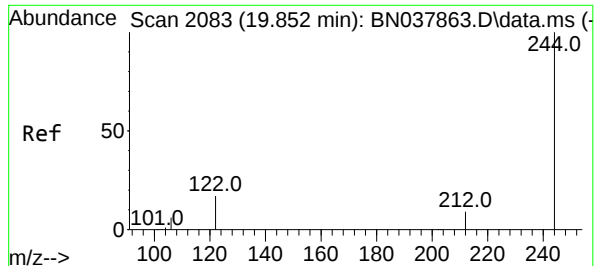
Ion Ratio Lower Upper

202 100

200 20.8 16.7 25.1

203 17.9 14.2 21.4

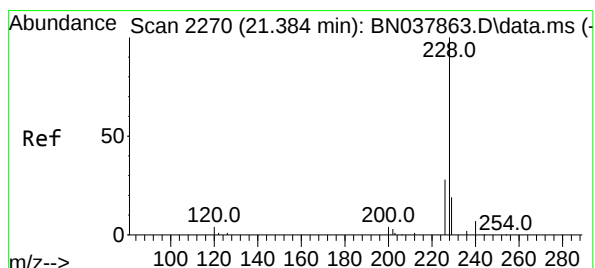
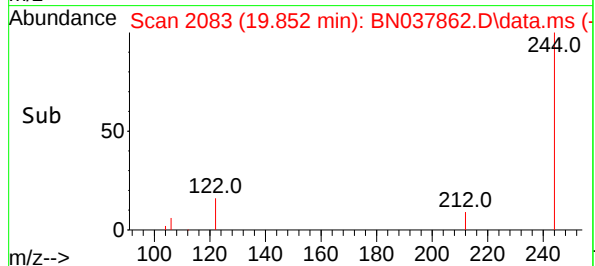
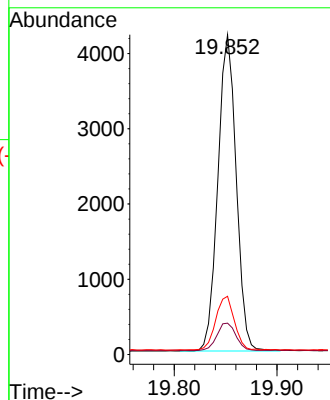
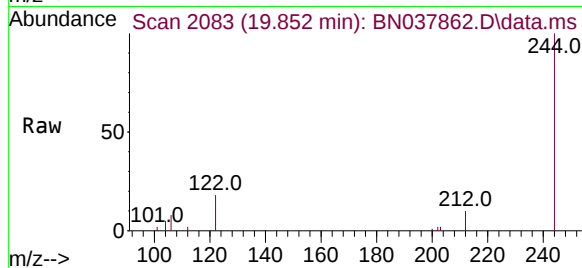




#31  
Terphenyl-d14  
Concen: 0.198 ng  
RT: 19.852 min Scan# 2083  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

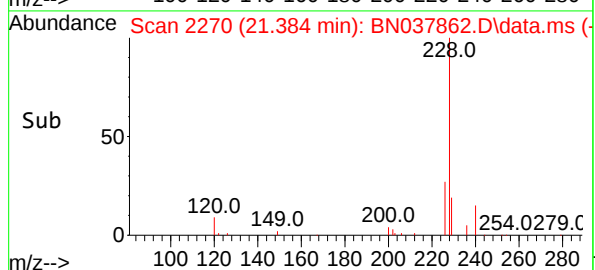
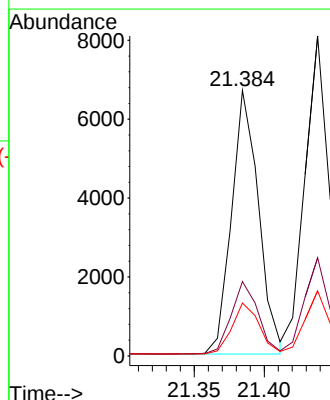
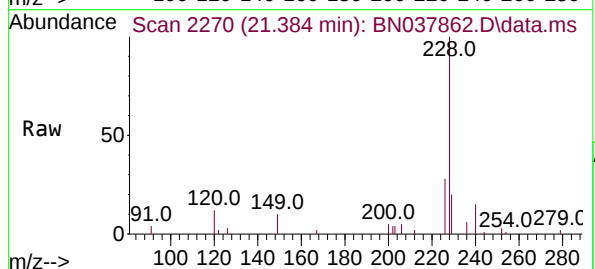
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

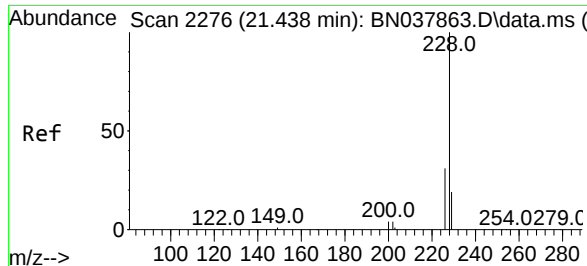
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.8   | 7.6   | 11.4  |
| 122     | 18.2  | 13.9  | 20.9  |



#32  
Benzo(a)anthracene  
Concen: 0.194 ng  
RT: 21.384 min Scan# 2270  
Delta R.T. 0.000 min  
Lab File: BN037862.D  
Acq: 23 Sep 2025 12:49

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.0  | 22.6  | 33.8  |
| 229     | 19.9  | 15.6  | 23.4  |





#33

Chrysene

Concen: 0.202 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2

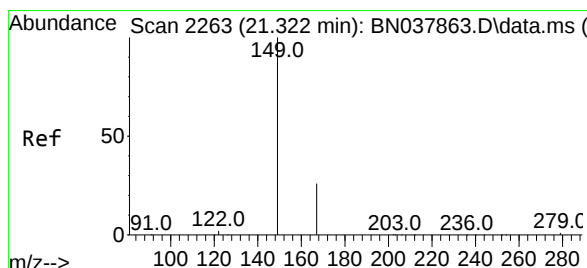
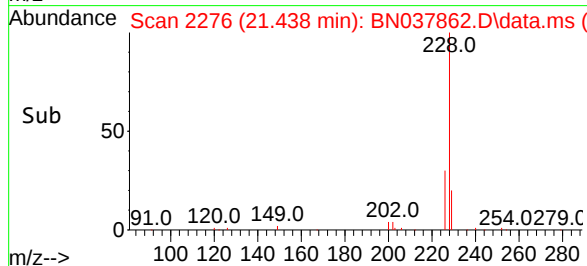
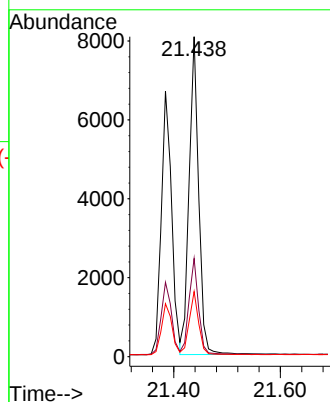
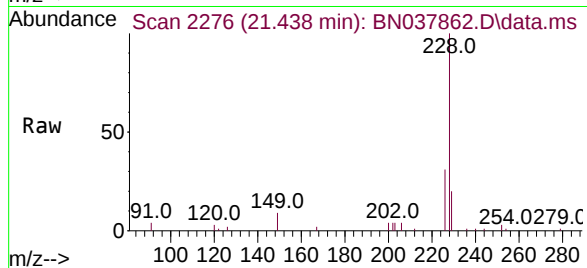
Tgt Ion:228 Resp: 10042

Ion Ratio Lower Upper

228 100

226 30.7 24.6 37.0

229 20.3 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.214 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

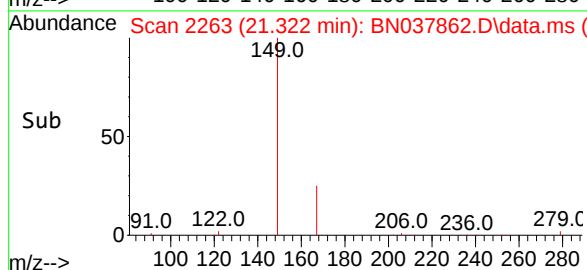
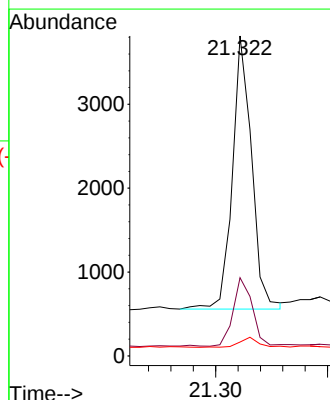
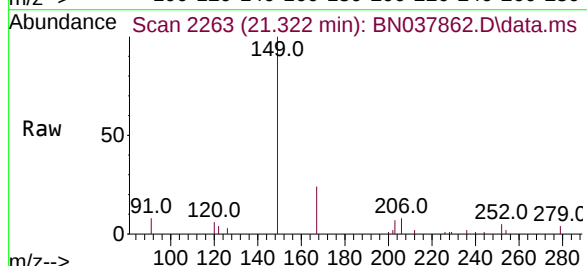
Tgt Ion:149 Resp: 3892

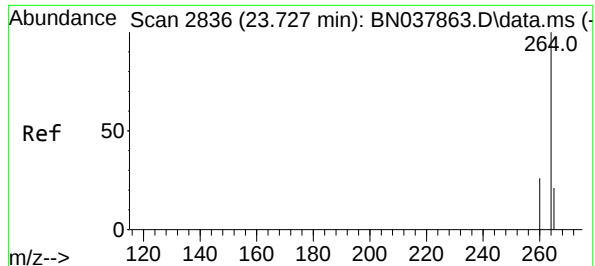
Ion Ratio Lower Upper

149 100

167 25.5 20.4 30.6

279 3.6 2.4 3.6#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.730 min Scan# 2837

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2

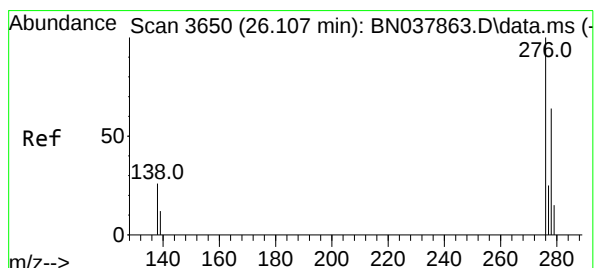
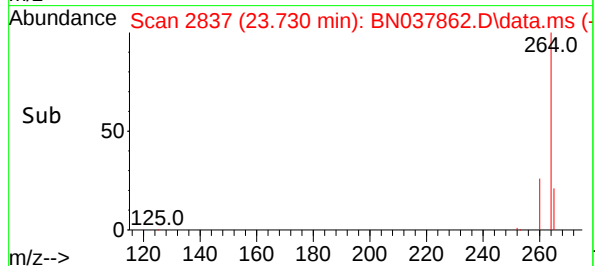
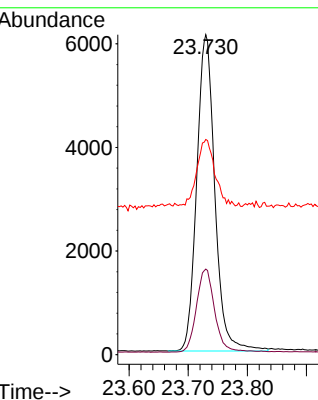
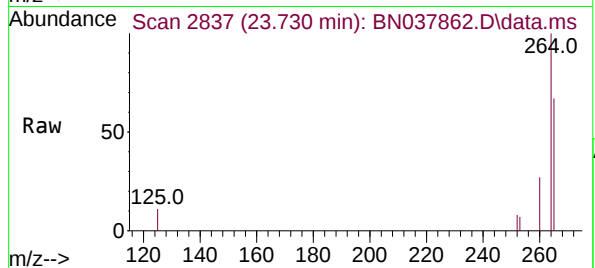
Tgt Ion:264 Resp: 12974

Ion Ratio Lower Upper

264 100

260 26.7 21.5 32.3

265 67.2 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.183 ng

RT: 26.110 min Scan# 3651

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

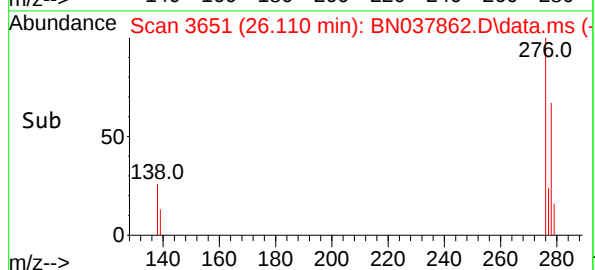
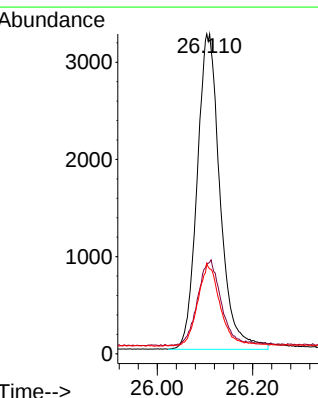
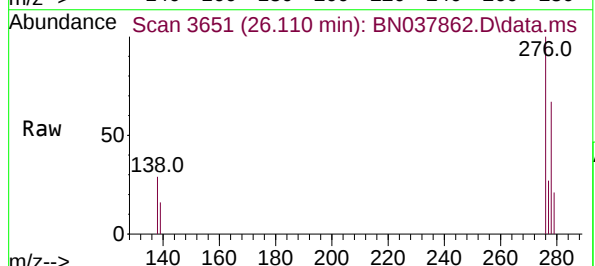
Tgt Ion:276 Resp: 10845

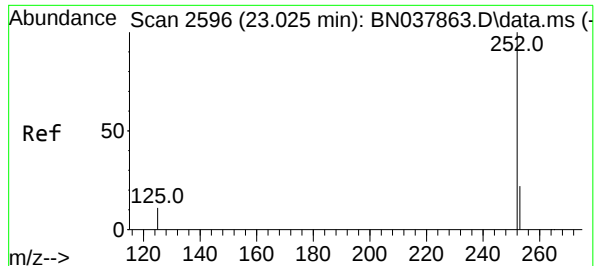
Ion Ratio Lower Upper

276 100

138 27.3 21.4 32.0

277 25.3 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.186 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

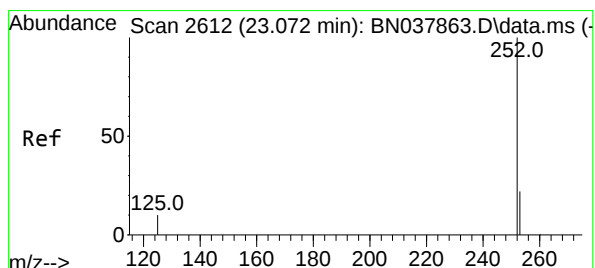
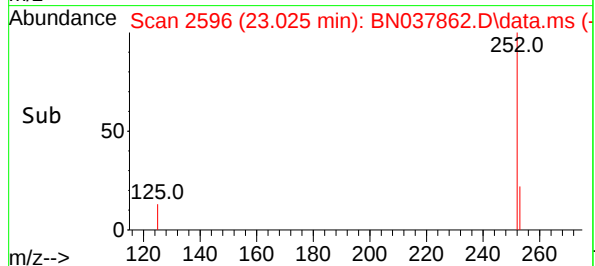
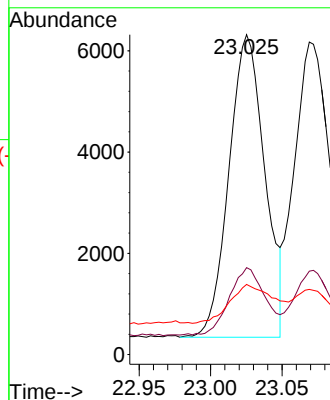
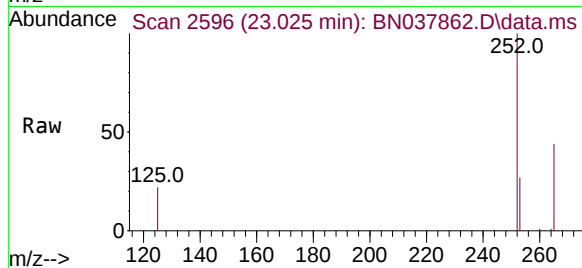
Tgt Ion:252 Resp: 10420

Ion Ratio Lower Upper

252 100

253 27.2 19.4 29.0

125 21.9 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 0.183 ng

RT: 23.069 min Scan# 2611

Delta R.T. -0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

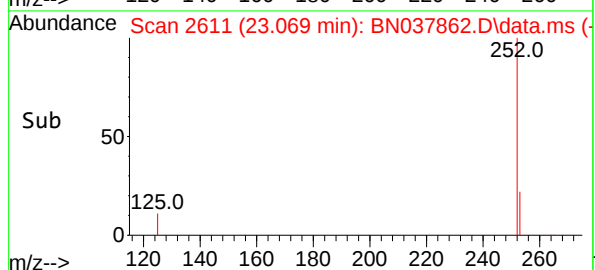
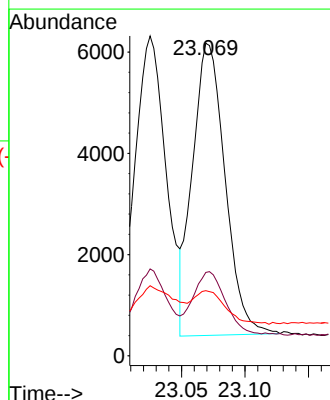
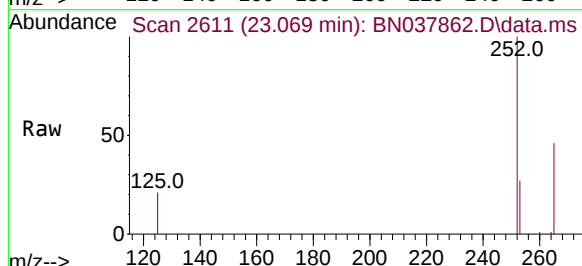
Tgt Ion:252 Resp: 10290

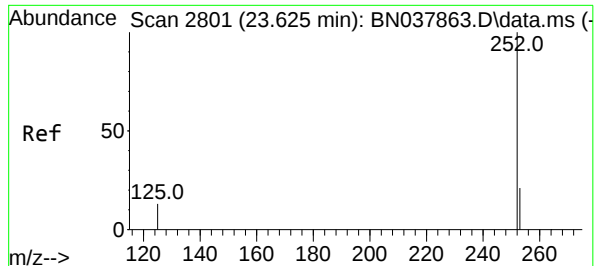
Ion Ratio Lower Upper

252 100

253 26.7 19.5 29.3

125 20.9 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.190 ng

RT: 23.628 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2

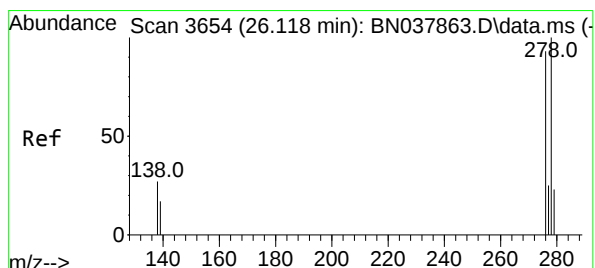
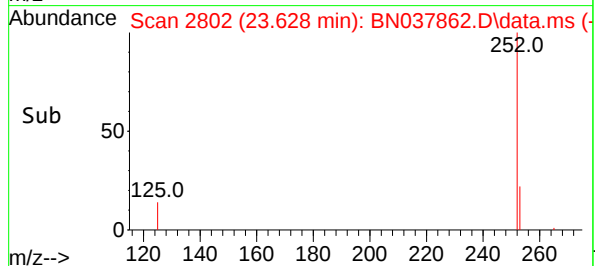
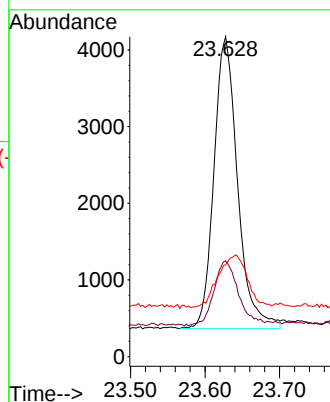
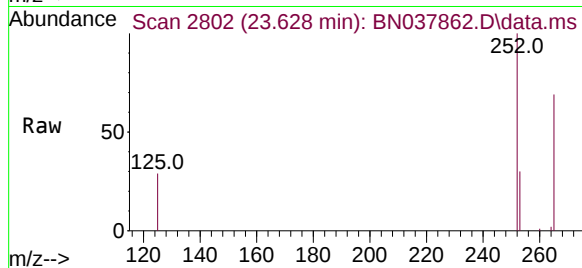
Tgt Ion:252 Resp: 8405

Ion Ratio Lower Upper

252 100

253 29.9 20.6 30.8

125 28.7 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.180 ng

RT: 26.121 min Scan# 3655

Delta R.T. 0.003 min

Lab File: BN037862.D

Acq: 23 Sep 2025 12:49

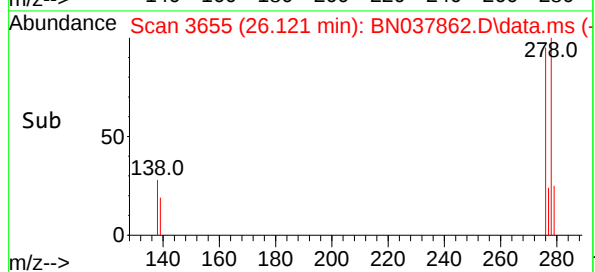
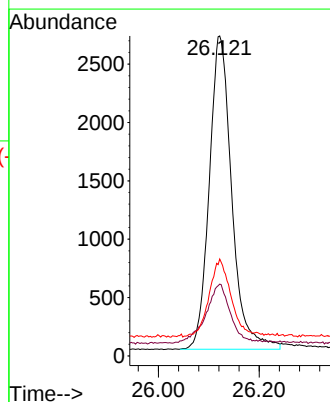
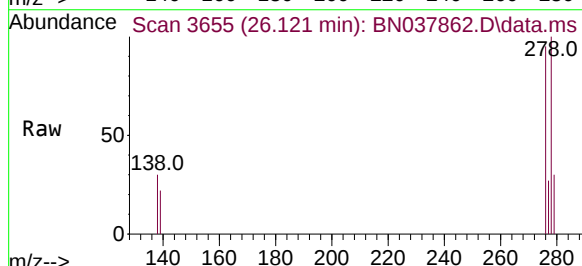
Tgt Ion:278 Resp: 8321

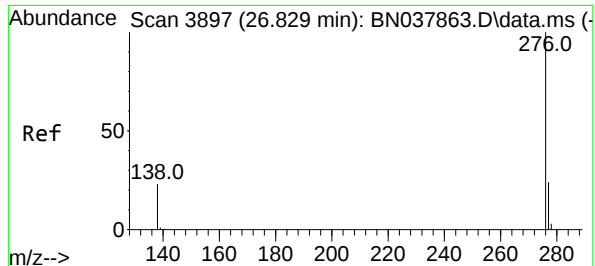
Ion Ratio Lower Upper

278 100

139 22.4 15.4 23.2

279 30.3 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.184 ng

RT: 26.826 min Scan# 38

Delta R.T. -0.003 min

Lab File: BN037862.D

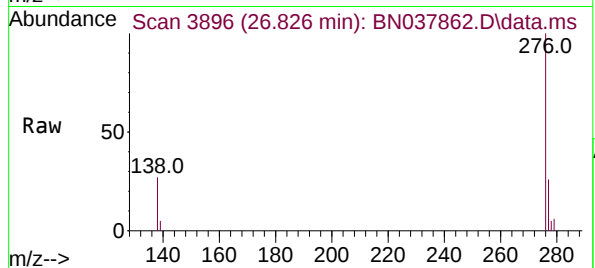
Acq: 23 Sep 2025 12:49

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



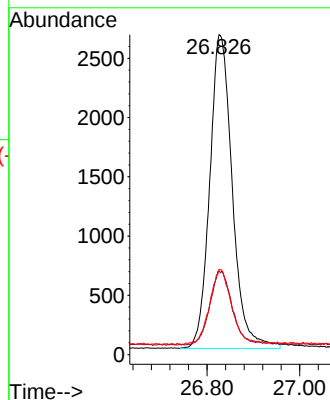
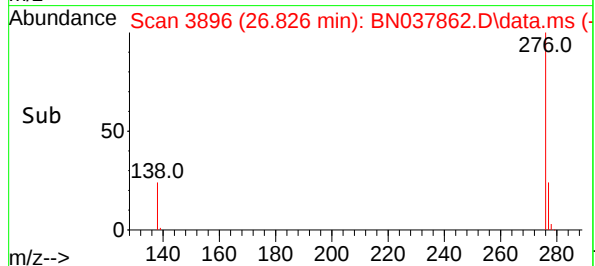
Tgt Ion:276 Resp: 8956

Ion Ratio Lower Upper

276 100

277 26.1 20.2 30.4

138 26.7 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
 Data File : BN037863.D  
 Acq On : 23 Sep 2025 13:25  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Quant Time: Sep 23 16:21:54 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:17:53 2025  
 Response via : Initial Calibration

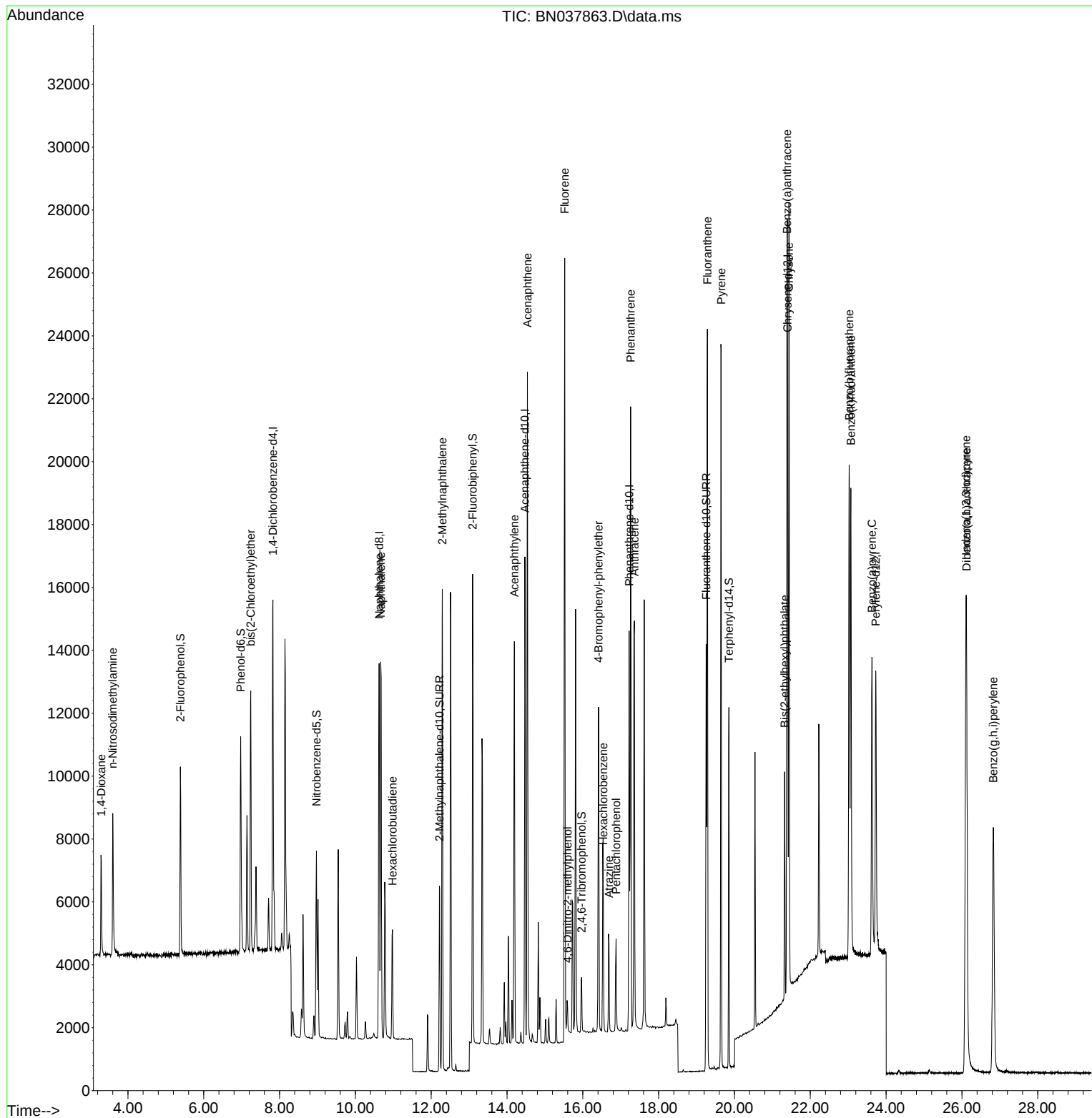
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.825  | 152  | 5584     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.626 | 136  | 15792    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.473 | 164  | 8247     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.223 | 188  | 15939    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.402 | 240  | 13579    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.727 | 264  | 12579    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.384  | 112  | 4779     | 0.375 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.973  | 99   | 6244     | 0.373 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.971  | 82   | 4566     | 0.379 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.217 | 152  | 7877     | 0.359 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.969 | 330  | 1117     | 0.336 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.094 | 172  | 12861    | 0.381 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.253 | 212  | 14130    | 0.352 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.852 | 244  | 10222    | 0.378 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.297  | 88   | 2288     | 0.404 | ng    | 100      |
| 3) n-Nitrosodimethylamine     | 3.601  | 42   | 2885     | 0.383 | ng    | 100      |
| 6) bis(2-Chloroethyl)ether    | 7.240  | 93   | 6041     | 0.389 | ng    | 100      |
| 9) Naphthalene                | 10.669 | 128  | 16547    | 0.380 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.979 | 225  | 2874     | 0.387 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.293 | 142  | 10542    | 0.371 | ng    | 100      |
| 16) Acenaphthylene            | 14.195 | 152  | 13712    | 0.366 | ng    | 100      |
| 17) Acenaphthene              | 14.537 | 154  | 9880     | 0.370 | ng    | 100      |
| 18) Fluorene                  | 15.523 | 166  | 11975    | 0.371 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198  | 696      | 0.406 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 16.416 | 248  | 3896     | 0.375 | ng    | 100      |
| 22) Hexachlorobenzene         | 16.540 | 284  | 4854     | 0.385 | ng    | 100      |
| 23) Atrazine                  | 16.689 | 200  | 2739     | 0.346 | ng    | 100      |
| 24) Pentachlorophenol         | 16.875 | 266  | 1466     | 0.339 | ng    | 100      |
| 25) Phenanthrene              | 17.260 | 178  | 19609    | 0.374 | ng    | 100      |
| 26) Anthracene                | 17.360 | 178  | 16310    | 0.358 | ng    | 100      |
| 28) Fluoranthene              | 19.285 | 202  | 20902    | 0.362 | ng    | 100      |
| 30) Pyrene                    | 19.647 | 202  | 20652    | 0.385 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.384 | 228  | 17571    | 0.370 | ng    | 100      |
| 33) Chrysene                  | 21.438 | 228  | 19852    | 0.387 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.322 | 149  | 6617     | 0.352 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.107 | 276  | 20858    | 0.363 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 23.025 | 252  | 20638    | 0.380 | ng    | 100      |
| 38) Benzo(k)fluoranthene      | 23.072 | 252  | 20090    | 0.368 | ng    | 100      |
| 39) Benzo(a)pyrene            | 23.625 | 252  | 15479    | 0.361 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 26.118 | 278  | 16392    | 0.365 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 26.829 | 276  | 17656    | 0.374 | ng    | 100      |

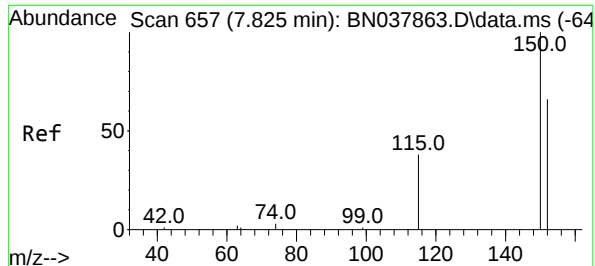
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Data File : BN037863.D  
Acq On : 23 Sep 2025 13:25  
Operator : RC/JU  
Sample : SSTDICCC0.4  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Quant Time: Sep 23 16:21:54 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 16:17:53 2025  
Response via : Initial Calibration

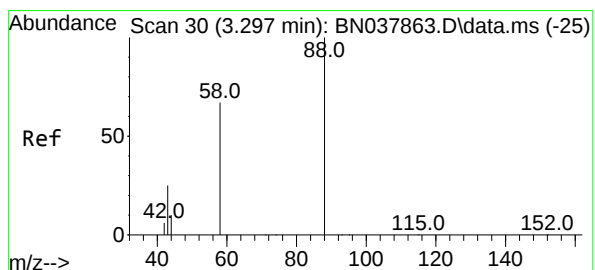
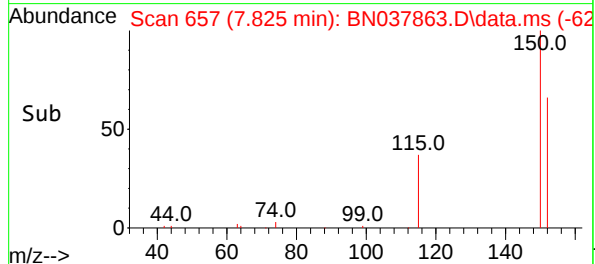
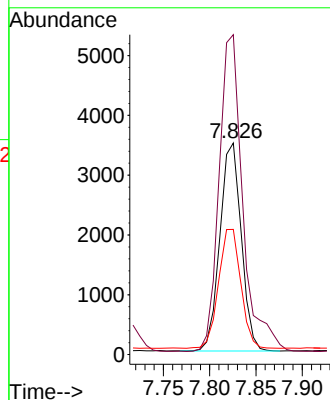
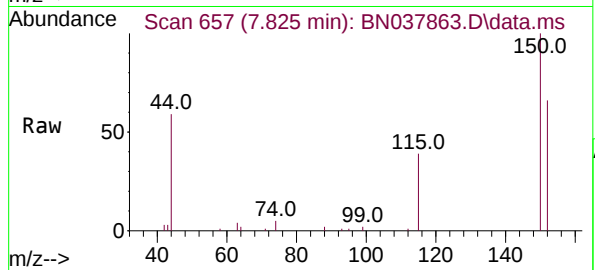




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.825 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

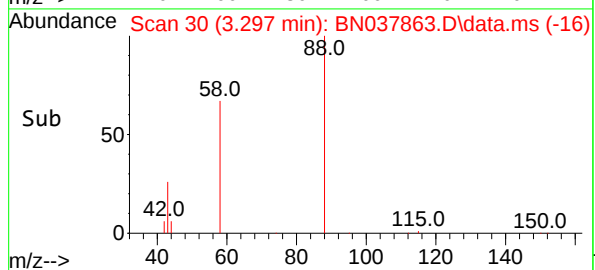
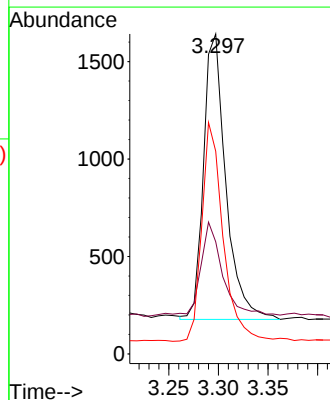
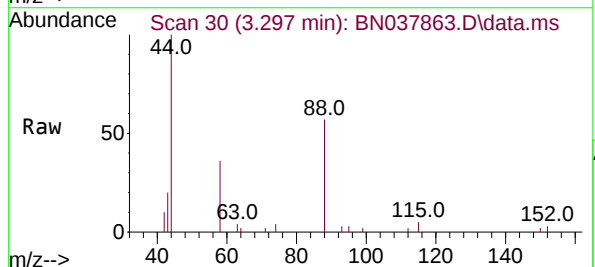
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

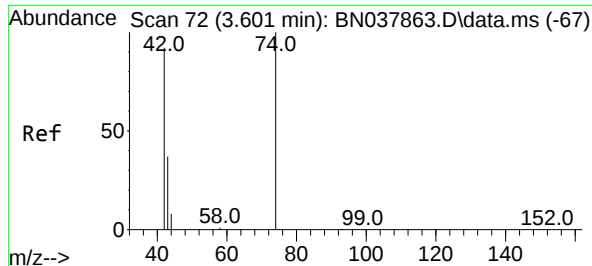
Tgt Ion:152 Resp: 5584  
Ion Ratio Lower Upper  
152 100  
150 151.2 121.0 181.4  
115 59.2 47.4 71.0



#2  
1,4-Dioxane  
Concen: 0.404 ng  
RT: 3.297 min Scan# 30  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

Tgt Ion: 88 Resp: 2288  
Ion Ratio Lower Upper  
88 100  
43 33.2 26.6 39.8  
58 73.6 58.9 88.3

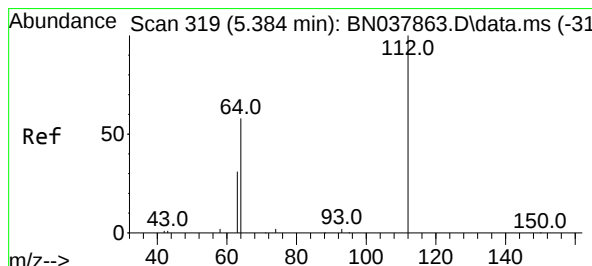
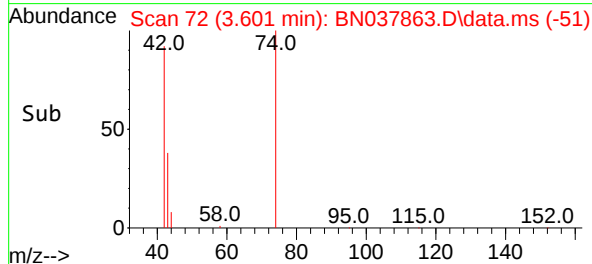
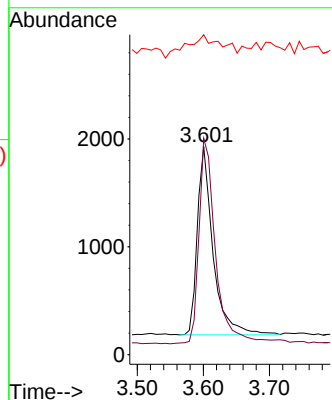
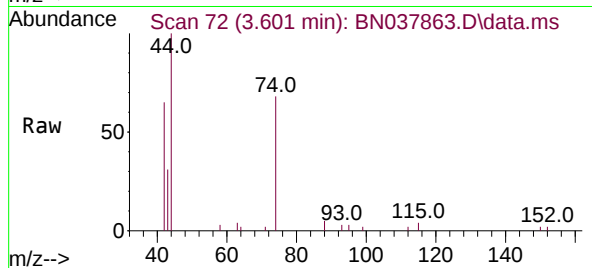




#3  
n-Nitrosodimethylamine  
Concen: 0.383 ng  
RT: 3.601 min Scan# 72  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

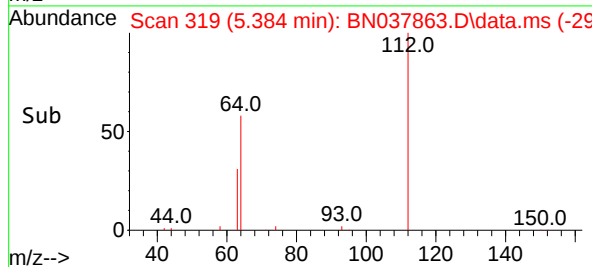
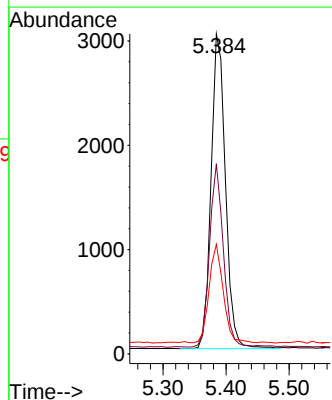
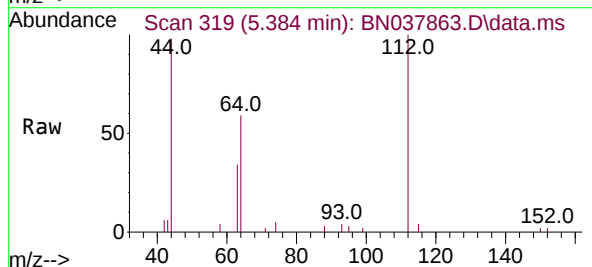
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

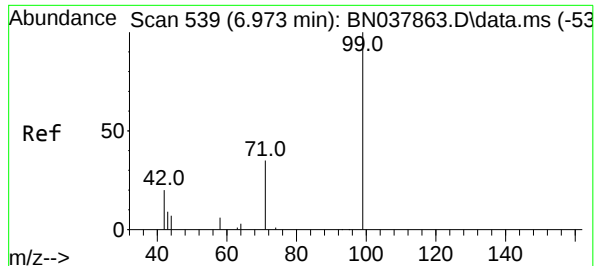
Tgt Ion: 42 Resp: 2885  
Ion Ratio Lower Upper  
42 100  
74 116.7 93.4 140.0  
44 27.8 22.2 33.4



#4  
2-Fluorophenol  
Concen: 0.375 ng  
RT: 5.384 min Scan# 319  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

Tgt Ion: 112 Resp: 4779  
Ion Ratio Lower Upper  
112 100  
64 55.7 44.6 66.8  
63 31.1 24.9 37.3

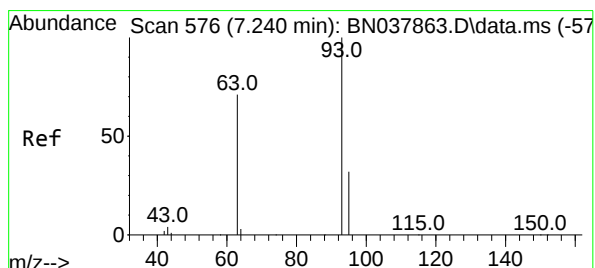
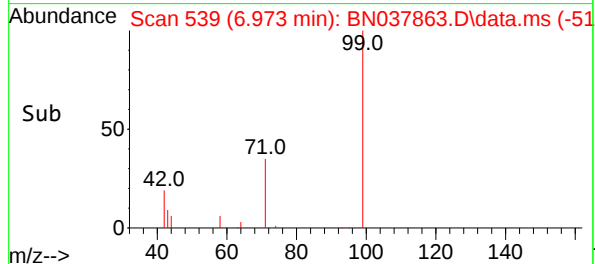
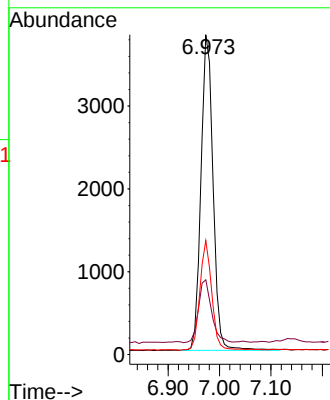
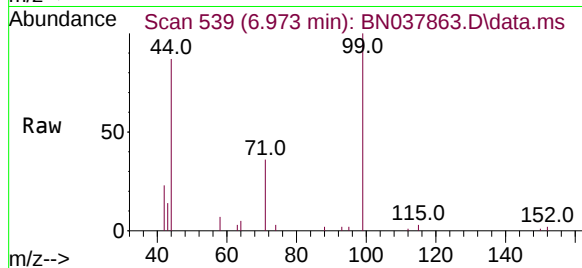




#5  
Phenol-d6  
Concen: 0.373 ng  
RT: 6.973 min Scan# 539  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

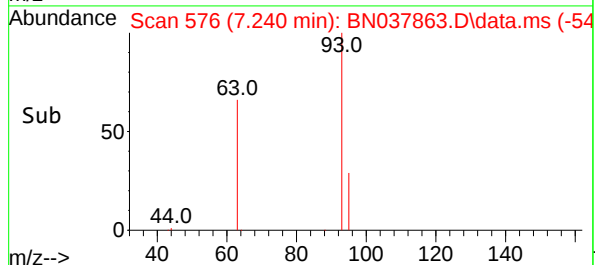
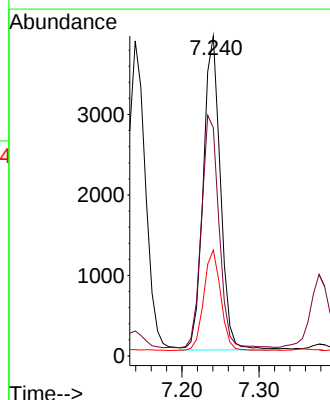
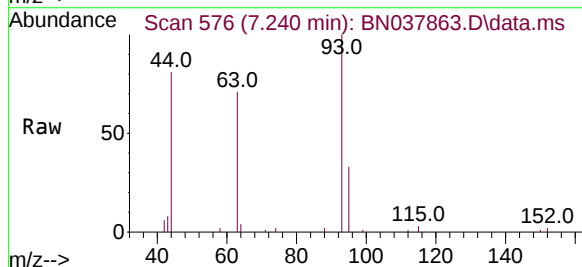
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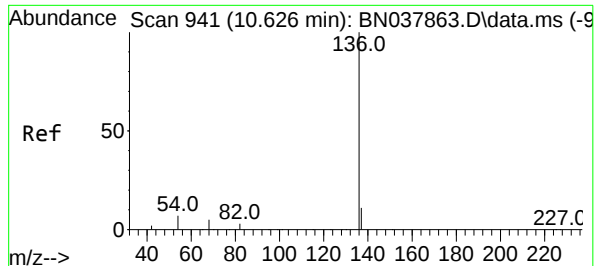
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|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 6244  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 21.5  | 17.2  | 25.8  |
| 71       | 34.1  | 27.3  | 40.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.389 ng  
RT: 7.240 min Scan# 576  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 6041  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 75.1  | 60.1  | 90.1  |
| 95       | 31.8  | 25.4  | 38.2  |

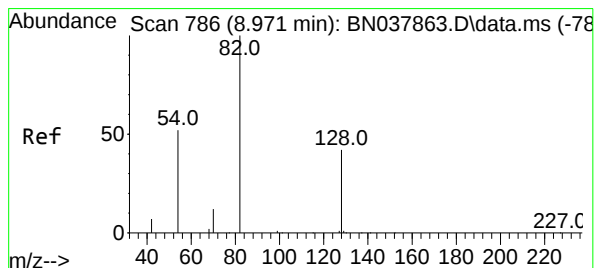
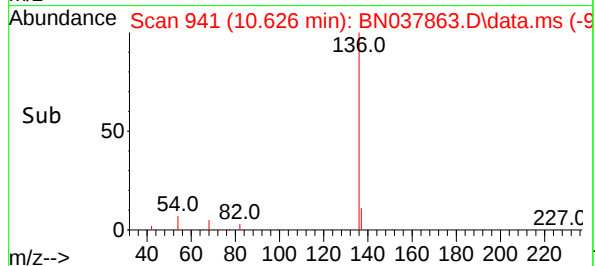
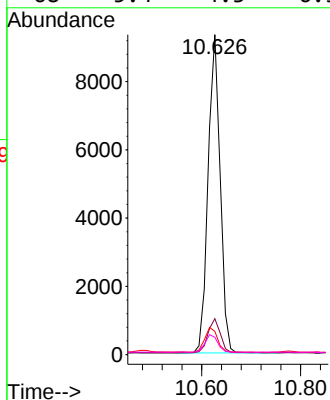
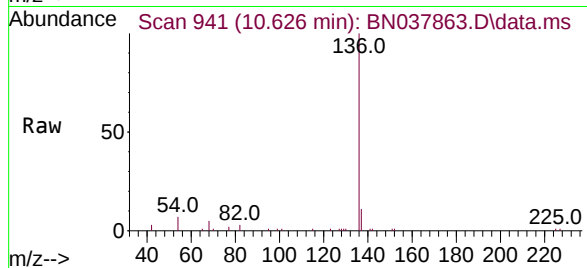




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.626 min Scan# 941  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

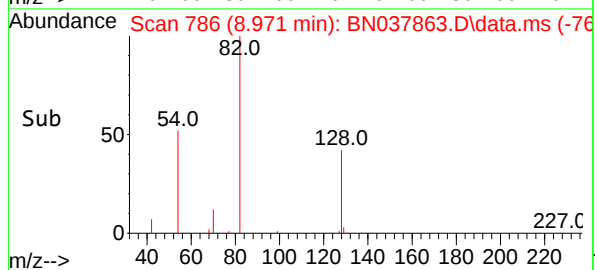
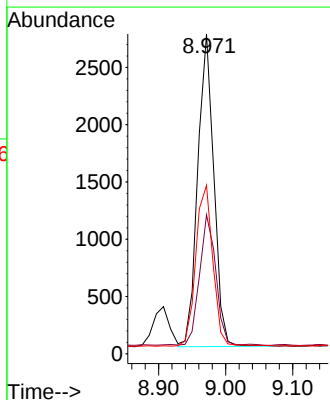
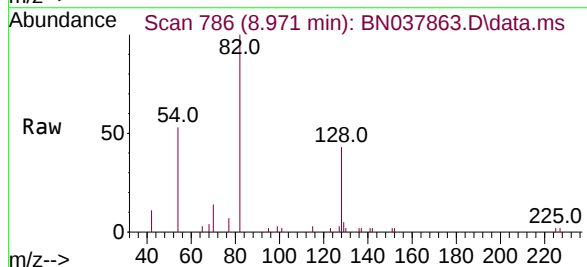
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

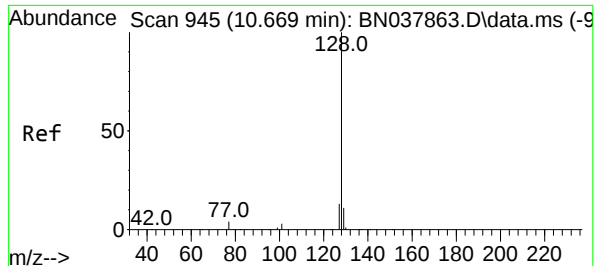
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 15792 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.2  | 9.0   | 13.4  |
| 54        | 7.3   | 5.8   | 8.8   |
| 68        | 5.4   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.379 ng  
RT: 8.971 min Scan# 786  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 82    | Resp: | 4566 |
| Ion Ratio | Lower | Upper |      |
| 82        | 100   |       |      |
| 128       | 43.5  | 34.8  | 52.2 |
| 54        | 52.7  | 42.2  | 63.2 |





#9

Naphthalene

Concen: 0.380 ng

RT: 10.669 min Scan# 945

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

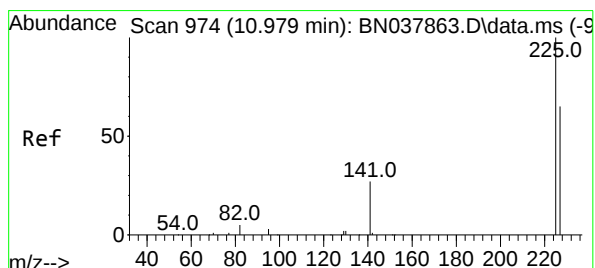
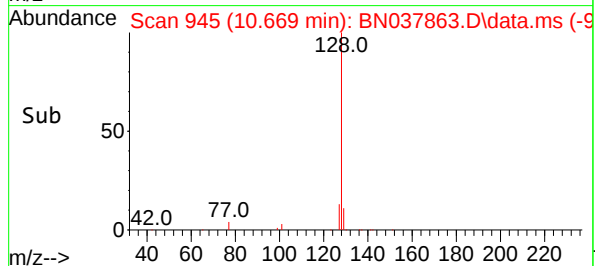
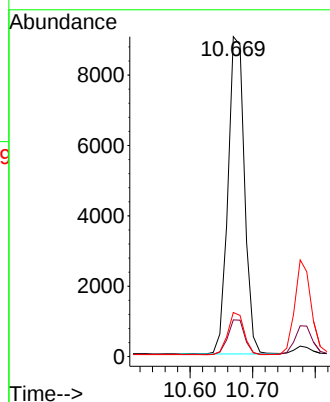
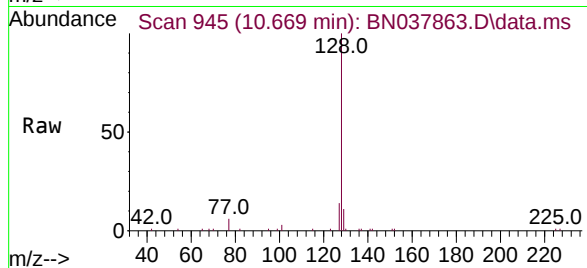
Tgt Ion:128 Resp: 16547

Ion Ratio Lower Upper

128 100

129 11.5 9.2 13.8

127 13.8 11.0 16.6



#10

Hexachlorobutadiene

Concen: 0.387 ng

RT: 10.979 min Scan# 974

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

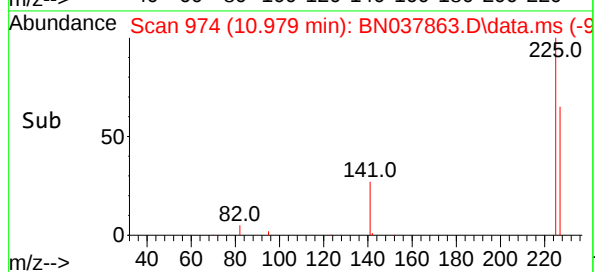
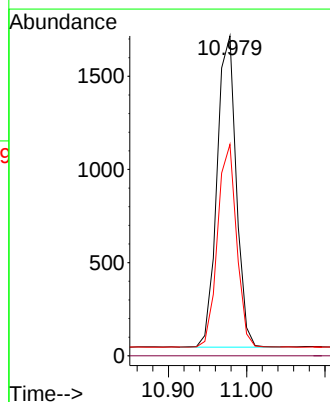
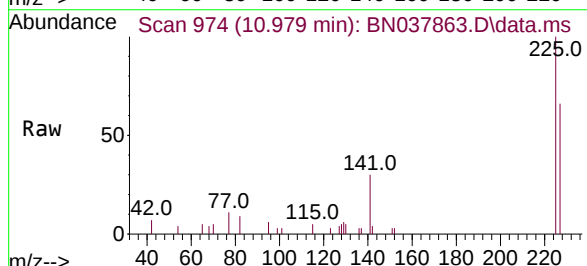
Tgt Ion:225 Resp: 2874

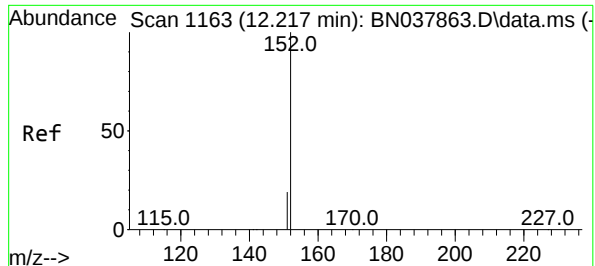
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.3 51.4 77.2

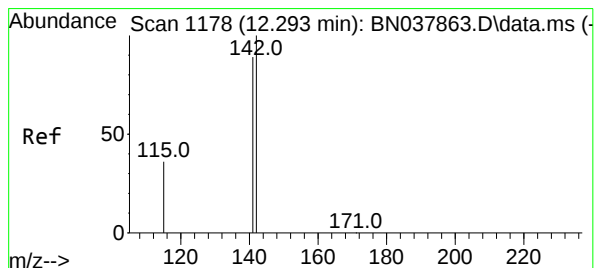
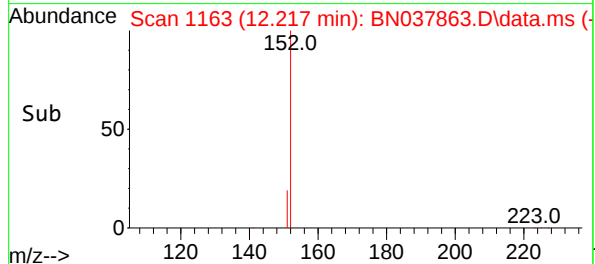
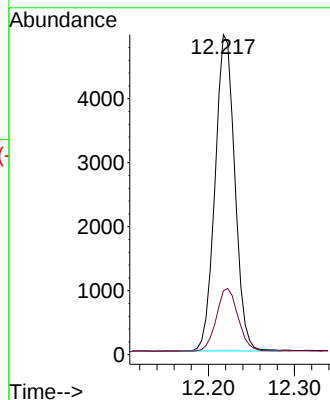
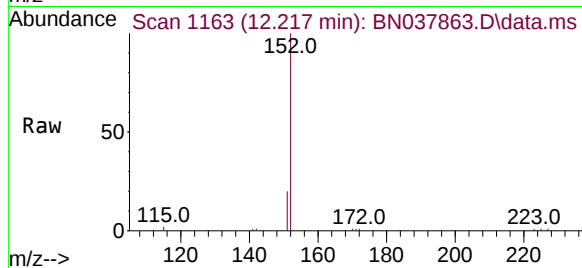




#11  
2-Methylnaphthalene-d10  
Concen: 0.359 ng  
RT: 12.217 min Scan# 1163  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

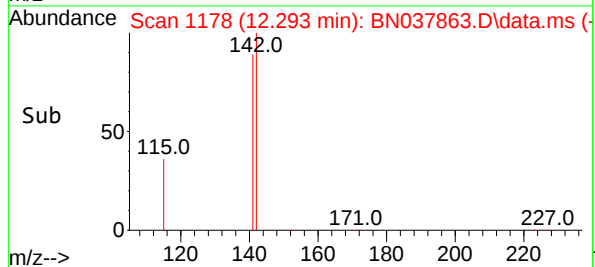
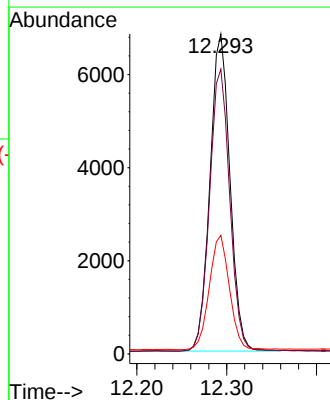
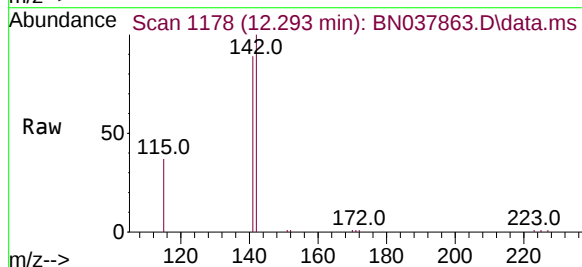
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

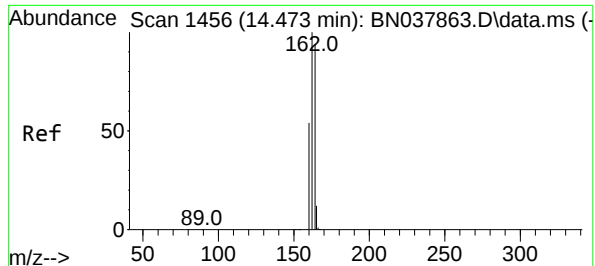
Tgt Ion:152 Resp: 7877  
Ion Ratio Lower Upper  
152 100  
151 21.8 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 0.371 ng  
RT: 12.293 min Scan# 1178  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

Tgt Ion:142 Resp: 10542  
Ion Ratio Lower Upper  
142 100  
141 89.0 71.2 106.8  
115 37.1 29.7 44.5

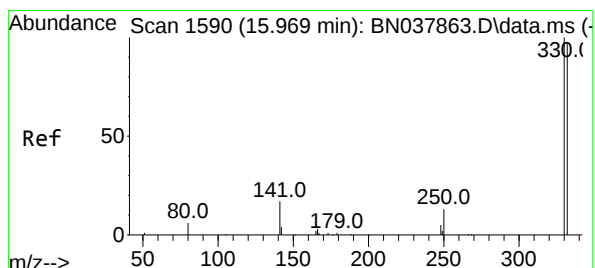
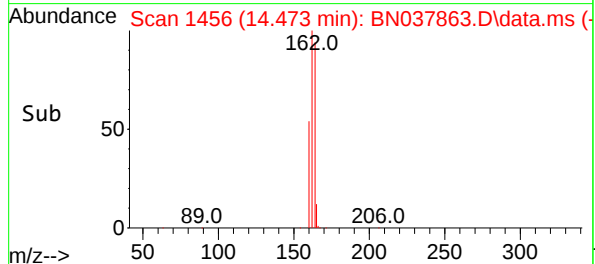
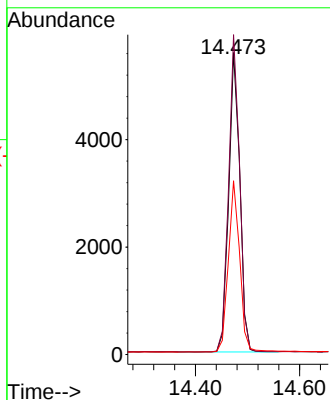
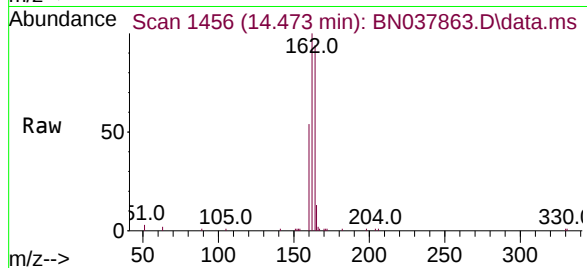




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.473 min Scan# 1456  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

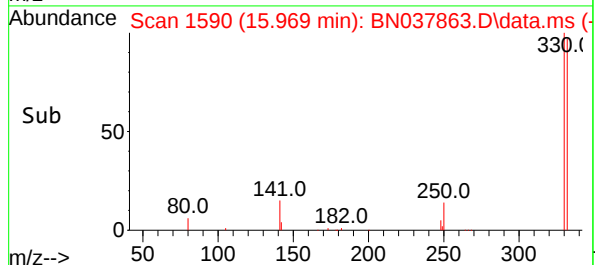
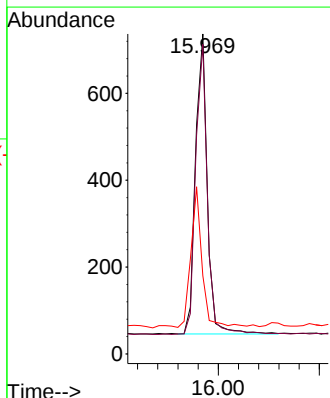
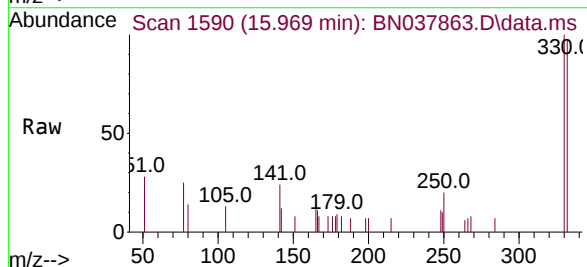
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

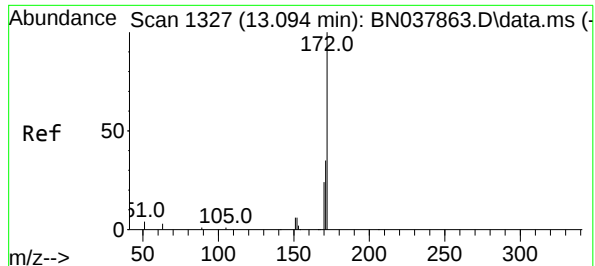
Tgt Ion:164 Resp: 8247  
Ion Ratio Lower Upper  
164 100  
162 106.0 84.8 127.2  
160 57.6 46.1 69.1



#14  
2,4,6-Tribromophenol  
Concen: 0.336 ng  
RT: 15.969 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

Tgt Ion:330 Resp: 1117  
Ion Ratio Lower Upper  
330 100  
332 96.4 77.2 115.8  
141 46.4 37.2 55.8

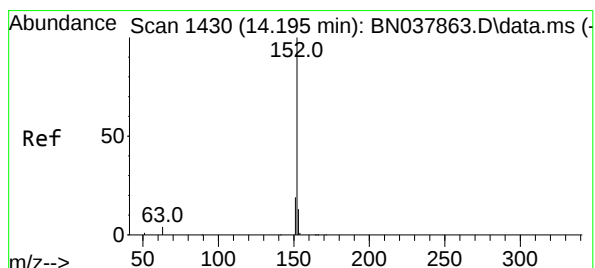
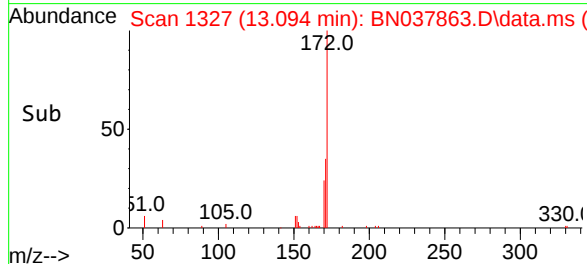
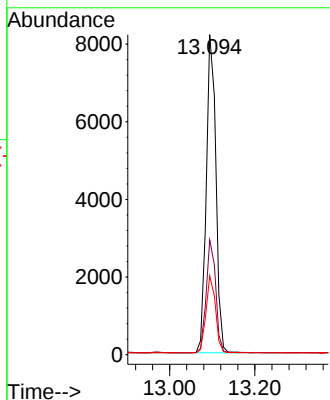
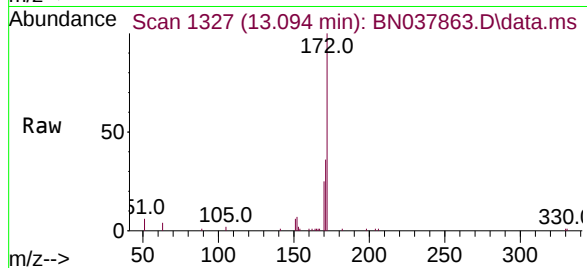




#15  
2-Fluorobiphenyl  
Concen: 0.381 ng  
RT: 13.094 min Scan# 1327  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

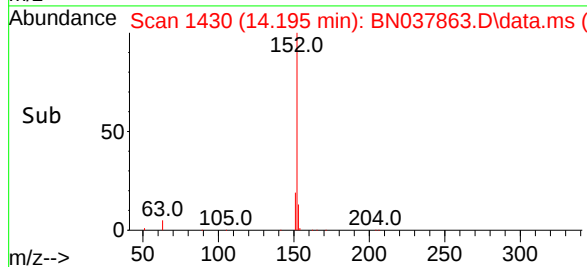
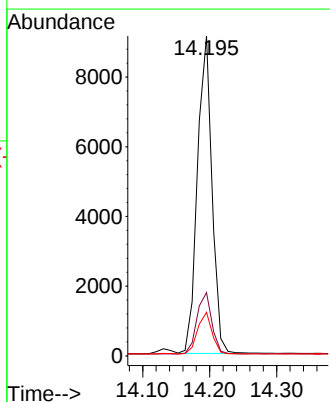
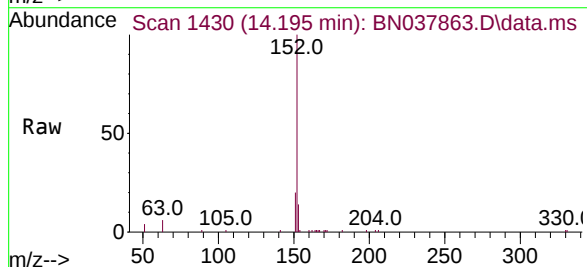
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

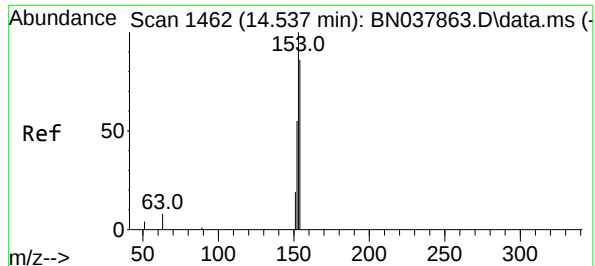
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 12861 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 35.8  | 28.6  | 43.0  |
| 170       | 24.6  | 19.7  | 29.5  |



#16  
Acenaphthylene  
Concen: 0.366 ng  
RT: 14.195 min Scan# 1430  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 13712 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.8  | 15.8  | 23.8  |
| 153       | 13.1  | 10.5  | 15.7  |

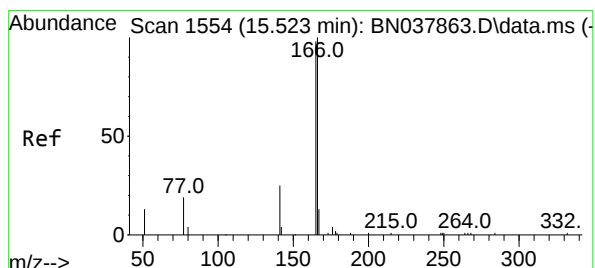
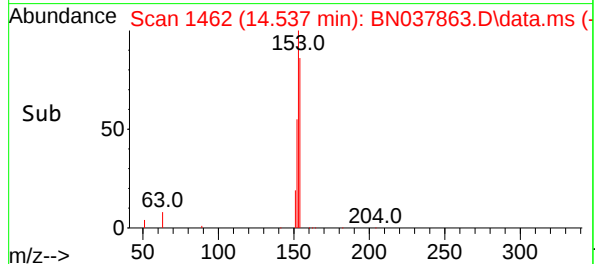
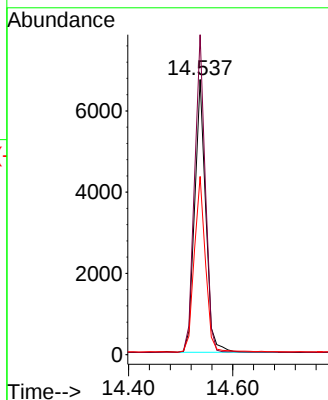
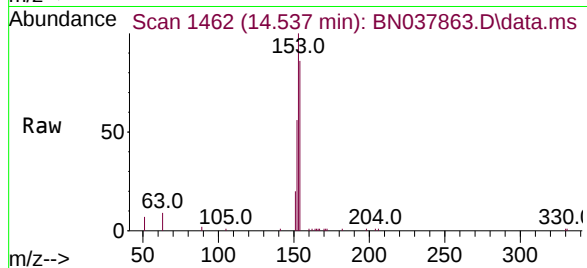




#17  
Acenaphthene  
Concen: 0.370 ng  
RT: 14.537 min Scan# 1462  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

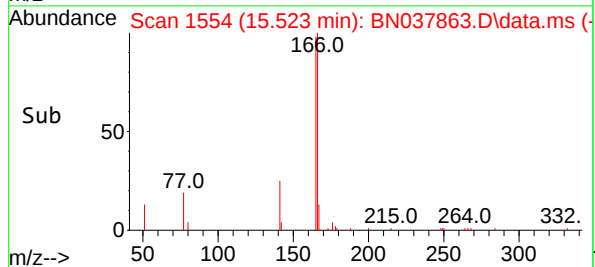
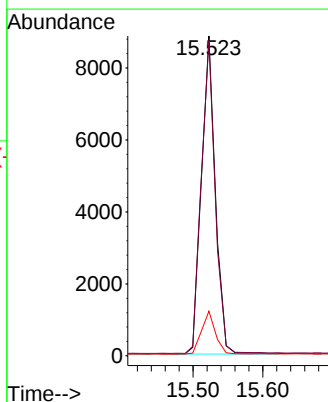
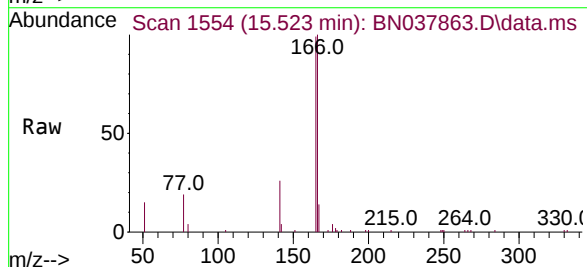
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

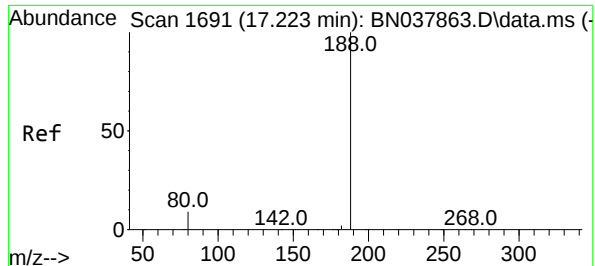
| Tgt Ion   | 154  | 153   | 152  |
|-----------|------|-------|------|
| Resp:     | 9880 | 113.1 | 64.8 |
| Ion Ratio | 100  | 11.3  | 6.5  |
| Lower     |      | 90.5  | 51.8 |
| Upper     |      | 135.7 | 77.8 |



#18  
Fluorene  
Concen: 0.371 ng  
RT: 15.523 min Scan# 1554  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

| Tgt Ion   | 166   | 165   | 167  |
|-----------|-------|-------|------|
| Resp:     | 11975 | 99.0  | 13.3 |
| Ion Ratio | 100   | 99.0  | 13.3 |
| Lower     |       | 79.0  | 10.6 |
| Upper     |       | 118.4 | 16.0 |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

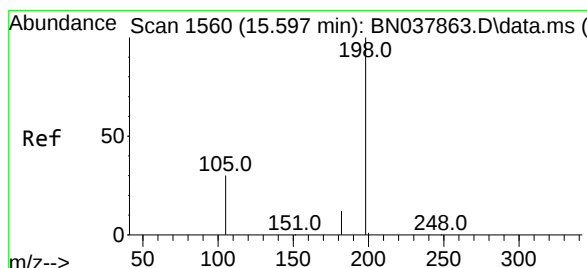
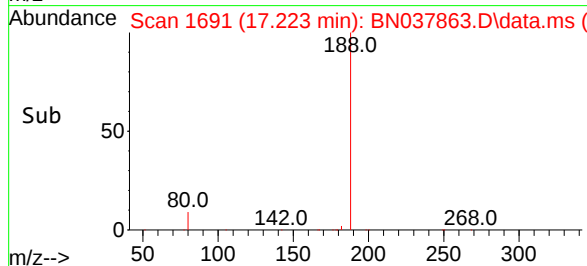
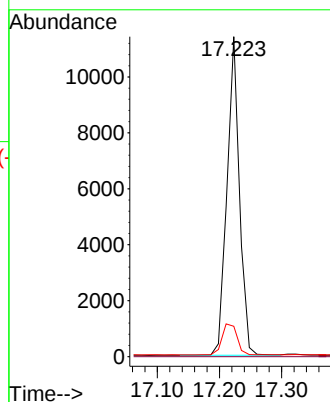
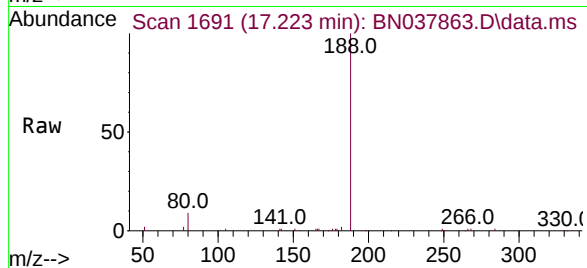
Tgt Ion:188 Resp: 15939

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.5 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.406 ng

RT: 15.597 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

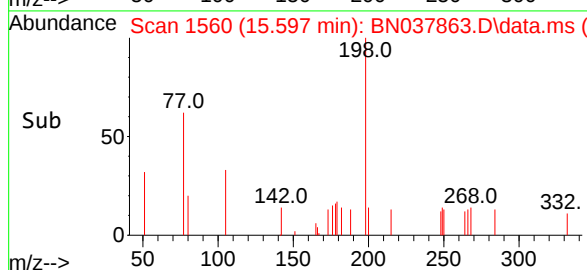
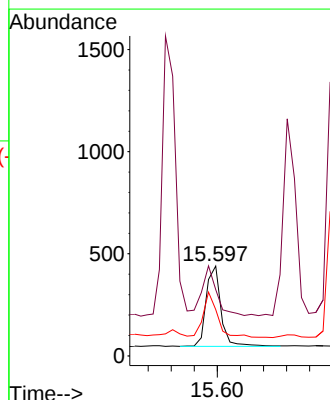
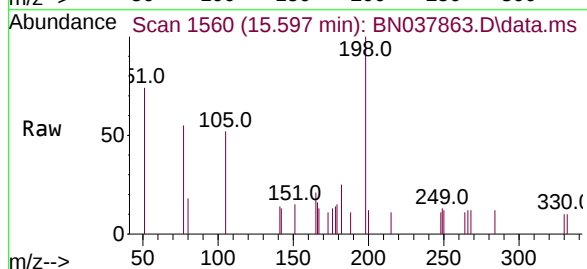
Tgt Ion:198 Resp: 696

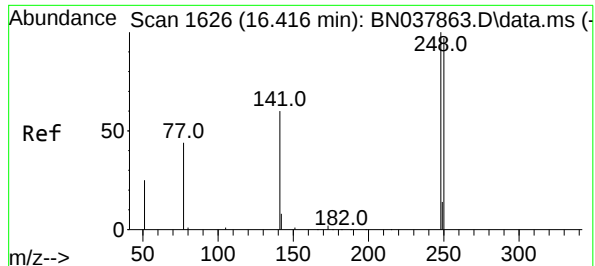
Ion Ratio Lower Upper

198 100

51 73.9 59.1 88.7

105 51.6 41.3 61.9

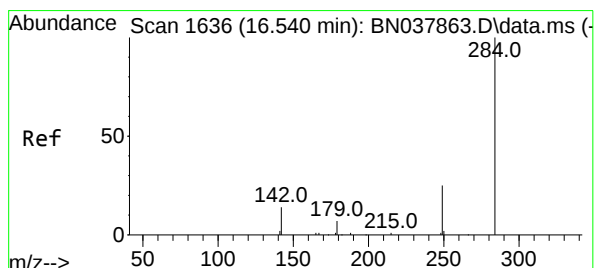
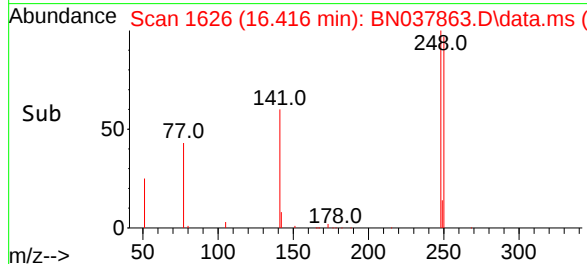
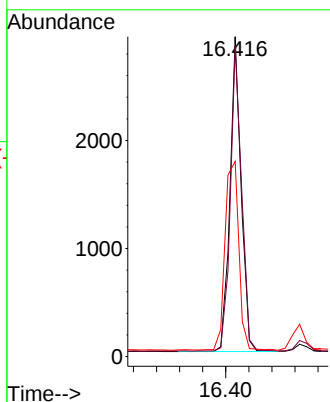
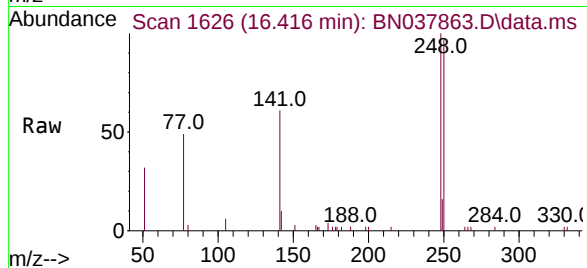




#21  
4-Bromophenyl-phenylether  
Concen: 0.375 ng  
RT: 16.416 min Scan# 1626  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

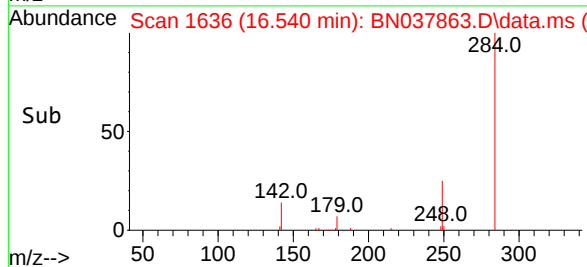
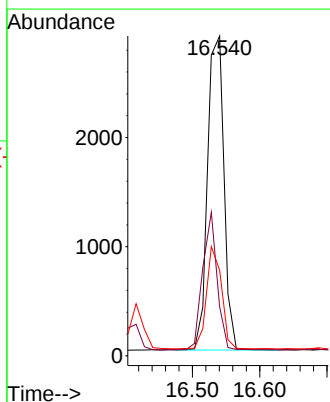
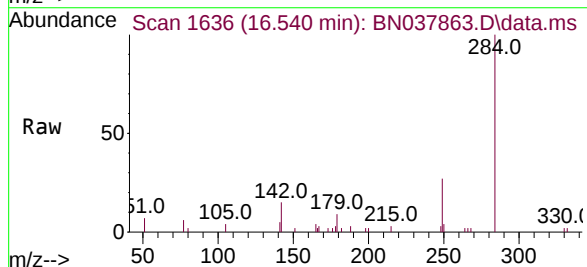
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

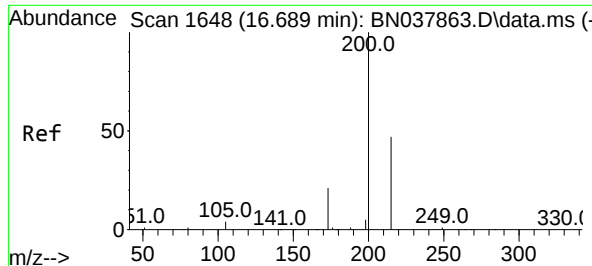
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 97.0  | 77.6  | 116.4 |
| 141     | 61.0  | 48.8  | 73.2  |



#22  
Hexachlorobenzene  
Concen: 0.385 ng  
RT: 16.540 min Scan# 1636  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 38.6  | 30.9  | 46.3  |
| 249     | 29.9  | 23.9  | 35.9  |





#23

Atrazine

Concen: 0.346 ng

RT: 16.689 min Scan# 1648

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

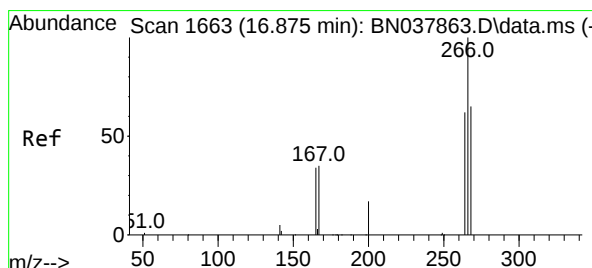
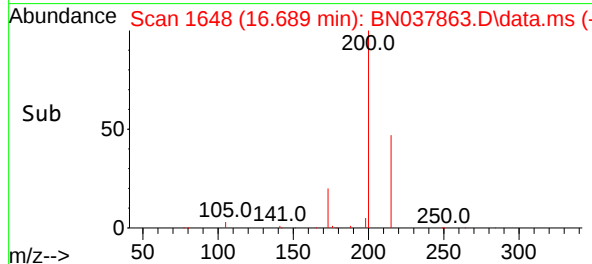
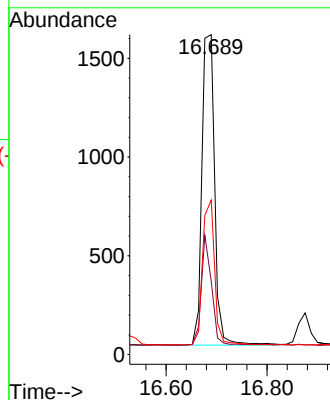
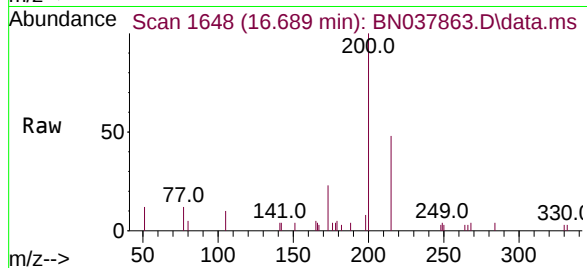
Tgt Ion:200 Resp: 2739

Ion Ratio Lower Upper

200 100

173 22.9 18.3 27.5

215 48.3 38.6 58.0



#24

Pentachlorophenol

Concen: 0.339 ng

RT: 16.875 min Scan# 1663

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

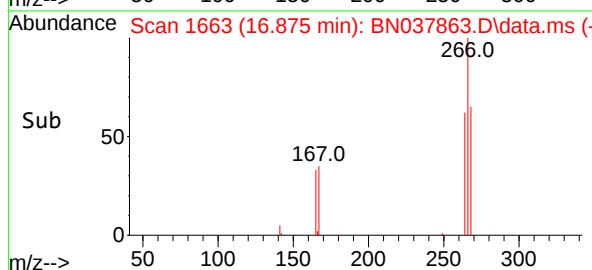
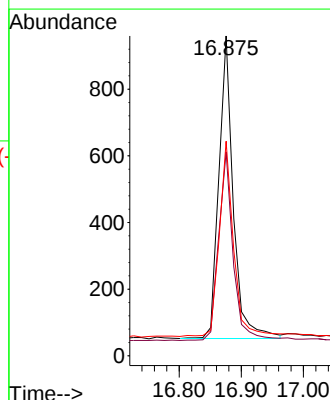
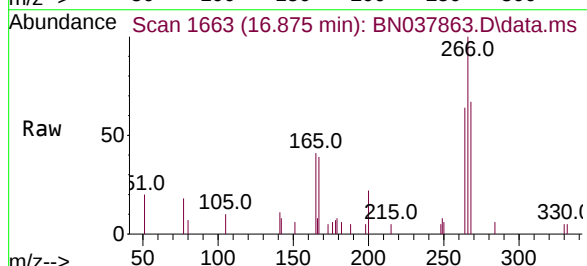
Tgt Ion:266 Resp: 1466

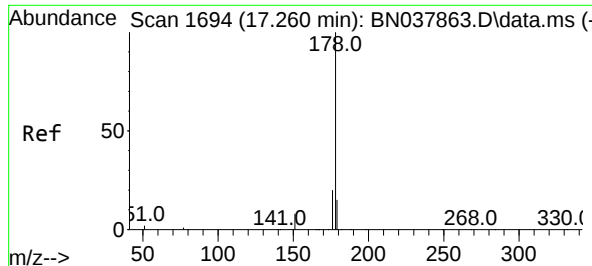
Ion Ratio Lower Upper

266 100

264 63.6 50.9 76.3

268 67.9 54.3 81.5





#25

Phenanthrene

Concen: 0.374 ng

RT: 17.260 min Scan# 1694

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

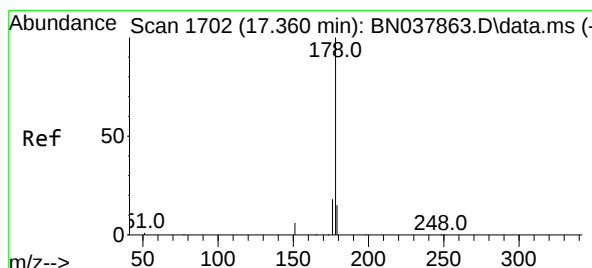
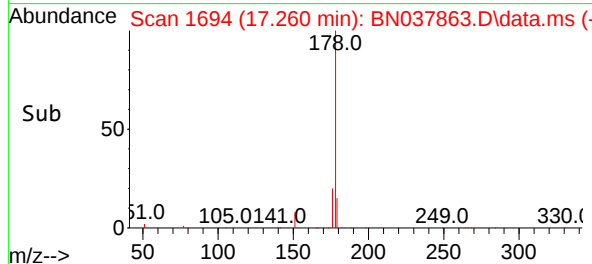
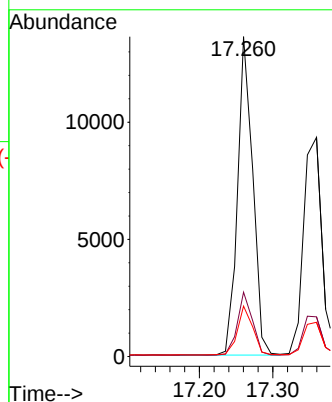
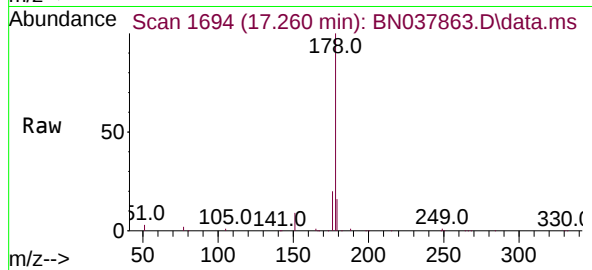
Tgt Ion:178 Resp: 19609

Ion Ratio Lower Upper

178 100

176 19.6 15.7 23.5

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.358 ng

RT: 17.360 min Scan# 1702

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

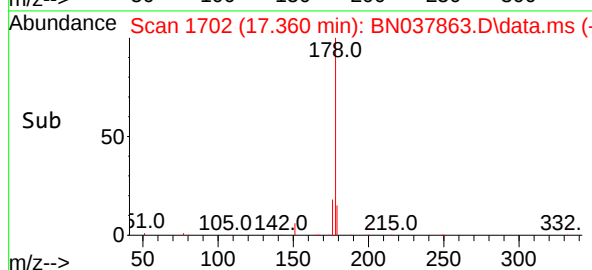
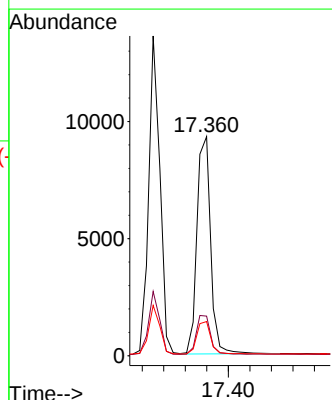
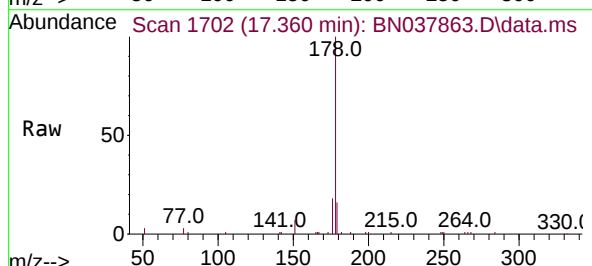
Tgt Ion:178 Resp: 16310

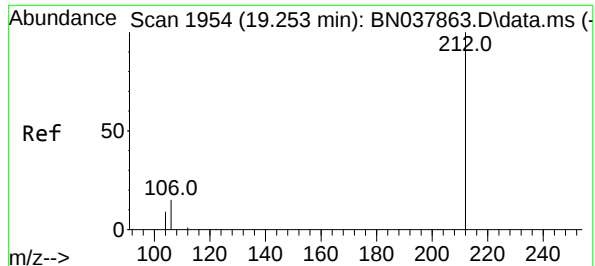
Ion Ratio Lower Upper

178 100

176 18.7 15.0 22.4

179 15.4 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.352 ng

RT: 19.253 min Scan# 1954

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

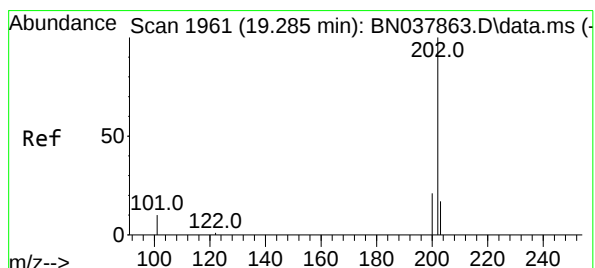
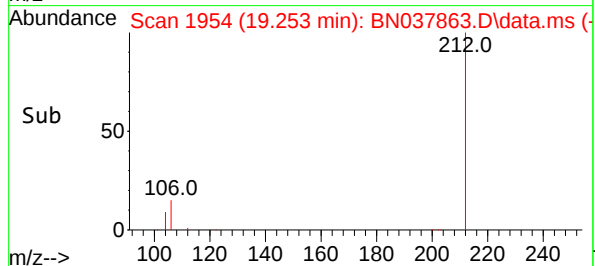
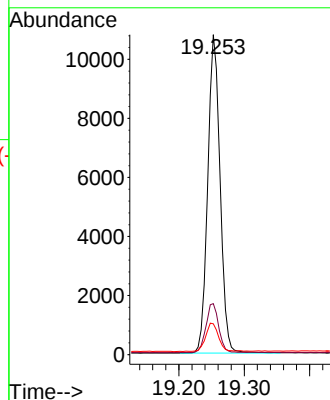
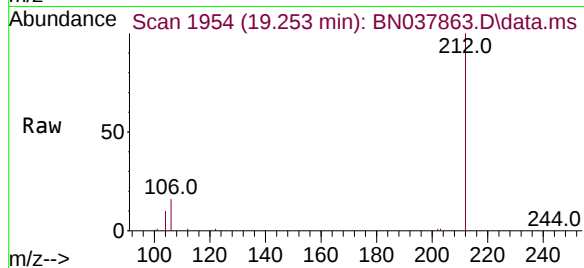
Tgt Ion:212 Resp: 14130

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.2 7.4 11.0



#28

Fluoranthene

Concen: 0.362 ng

RT: 19.285 min Scan# 1961

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

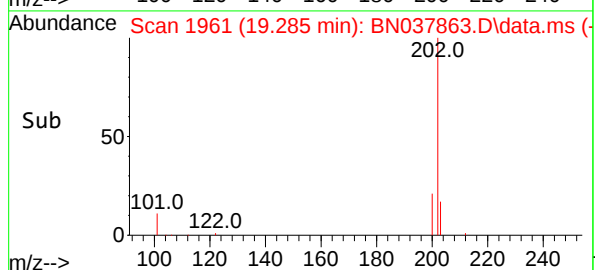
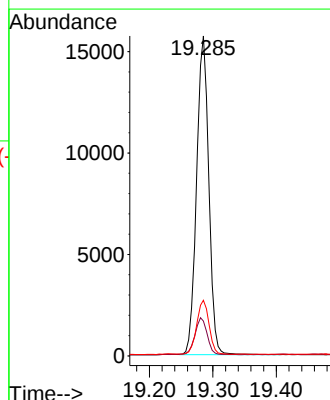
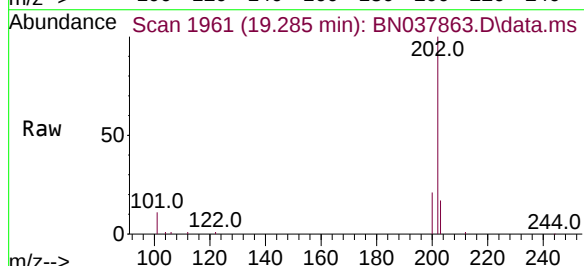
Tgt Ion:202 Resp: 20902

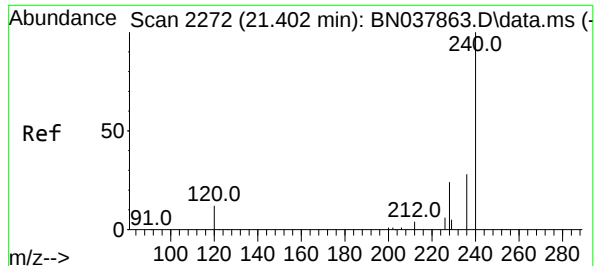
Ion Ratio Lower Upper

202 100

101 11.6 9.3 13.9

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

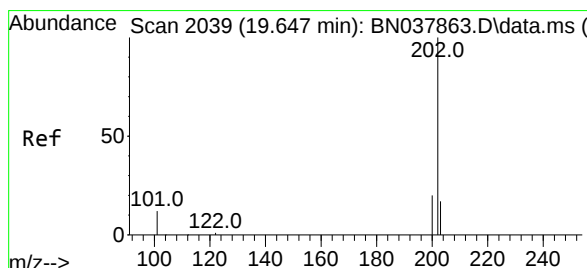
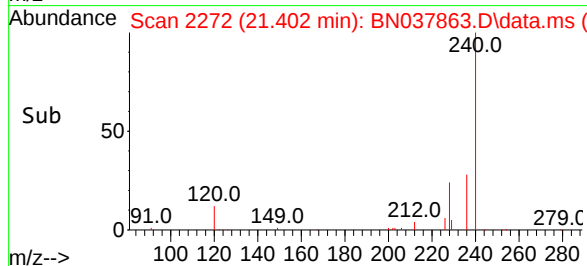
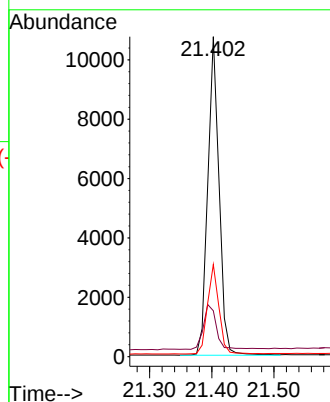
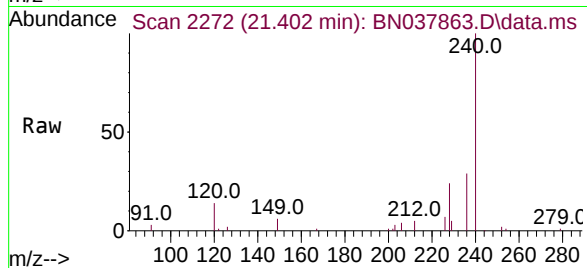
Tgt Ion:240 Resp: 13579

Ion Ratio Lower Upper

240 100

120 14.3 11.4 17.2

236 28.8 23.0 34.6



#30

Pyrene

Concen: 0.385 ng

RT: 19.647 min Scan# 2039

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

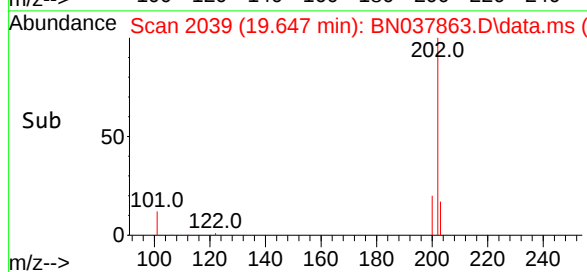
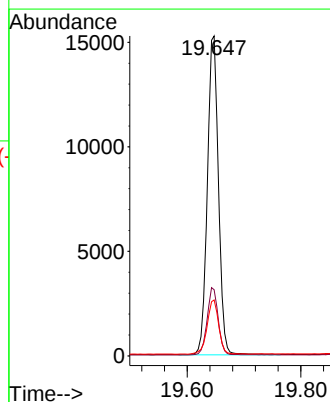
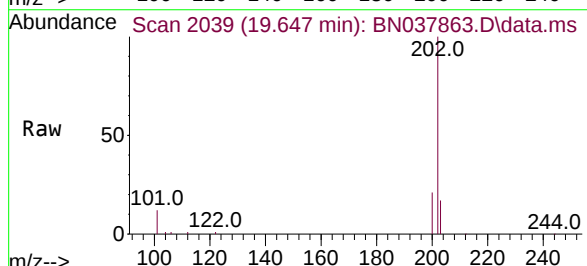
Tgt Ion:202 Resp: 20652

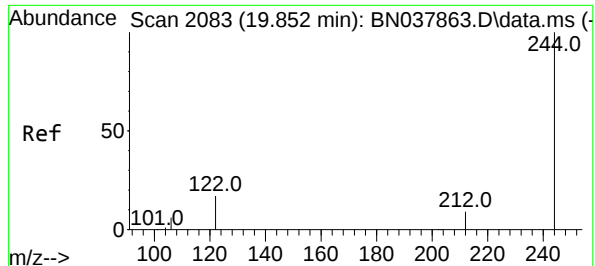
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.8 14.2 21.4

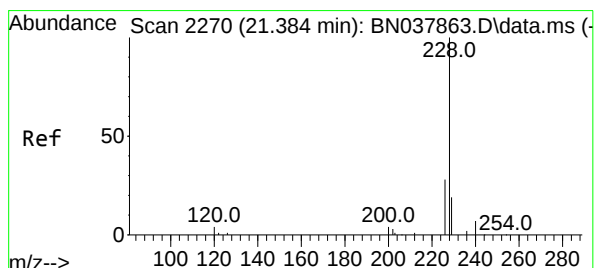
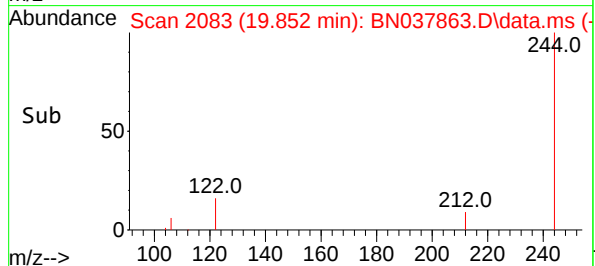
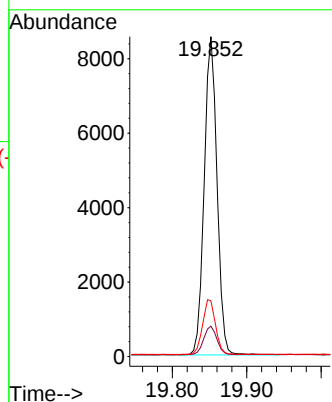
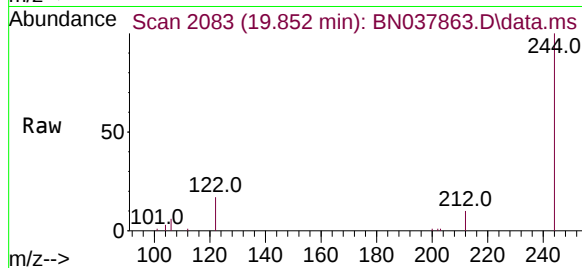




#31  
Terphenyl-d14  
Concen: 0.378 ng  
RT: 19.852 min Scan# 2083  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

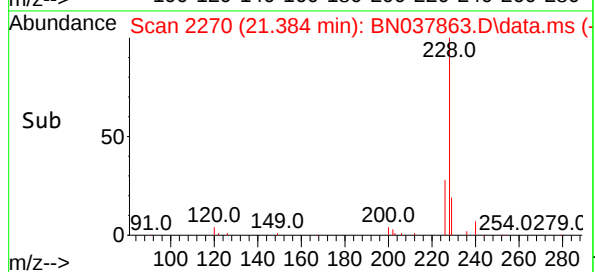
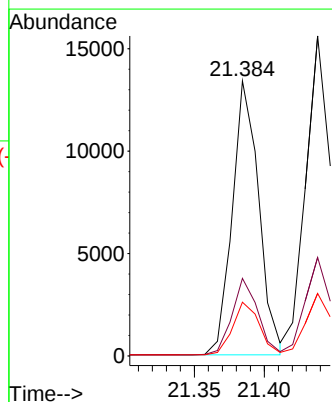
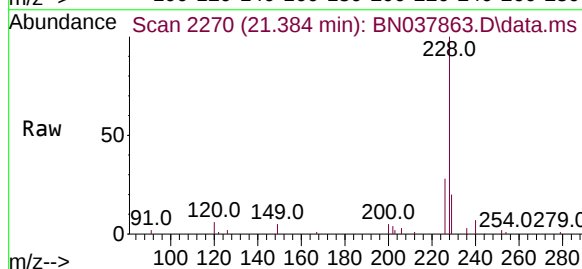
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

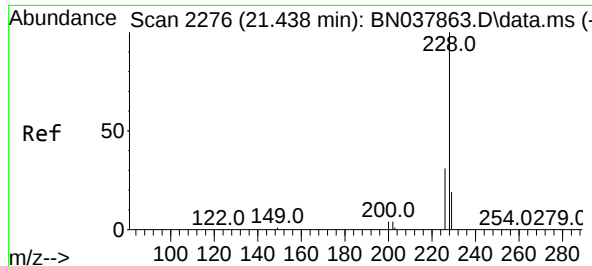
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.5   | 7.6   | 11.4  |
| 122     | 17.4  | 13.9  | 20.9  |



#32  
Benzo(a)anthracene  
Concen: 0.370 ng  
RT: 21.384 min Scan# 2270  
Delta R.T. 0.000 min  
Lab File: BN037863.D  
Acq: 23 Sep 2025 13:25

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.2  | 22.6  | 33.8  |
| 229     | 19.5  | 15.6  | 23.4  |





#33

Chrysene

Concen: 0.387 ng

RT: 21.438 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

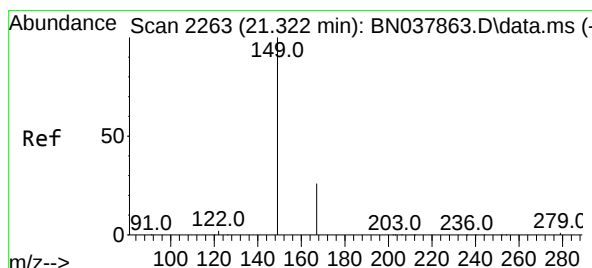
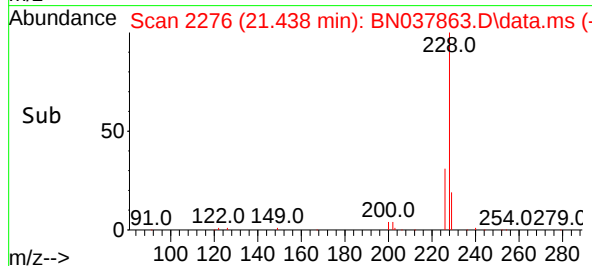
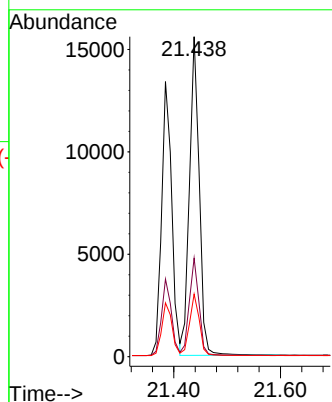
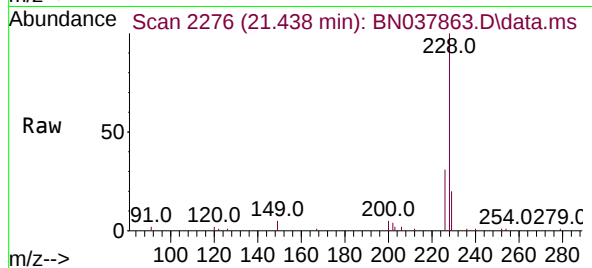
Tgt Ion:228 Resp: 19852

Ion Ratio Lower Upper

228 100

226 30.8 24.6 37.0

229 19.5 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.352 ng

RT: 21.322 min Scan# 2263

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

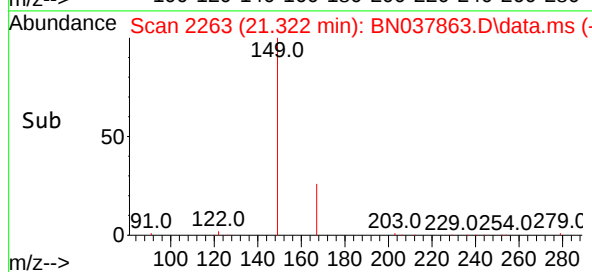
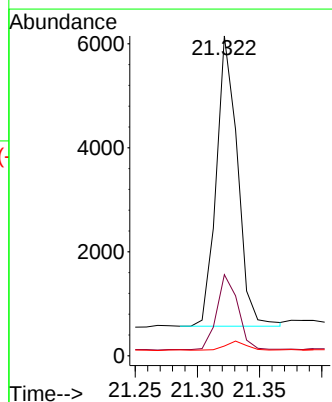
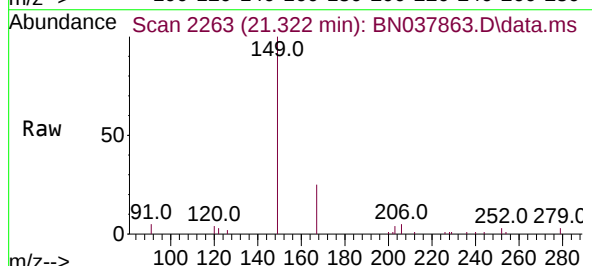
Tgt Ion:149 Resp: 6617

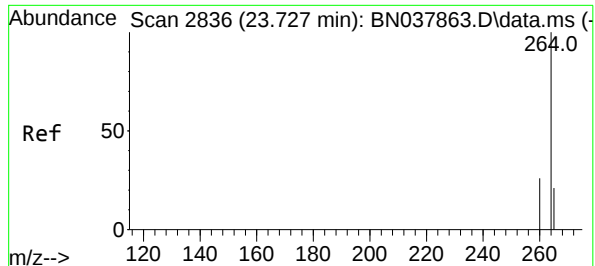
Ion Ratio Lower Upper

149 100

167 26.2 20.4 30.6

279 3.1 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.727 min Scan# 2836

Delta R.T. 0.000 min

Lab File: BN037863.D

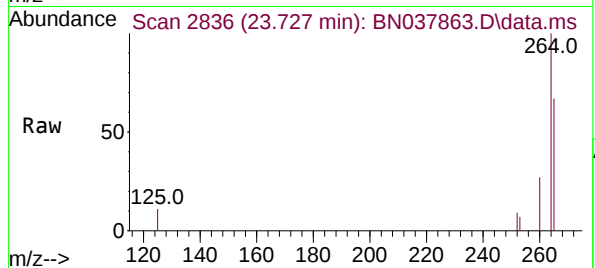
Acq: 23 Sep 2025 13:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



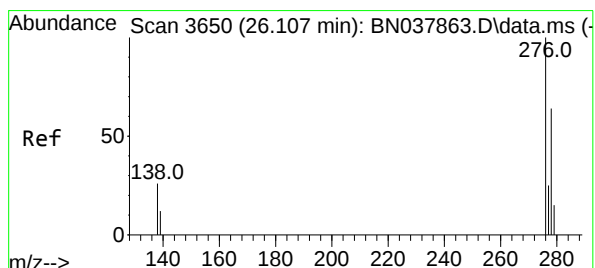
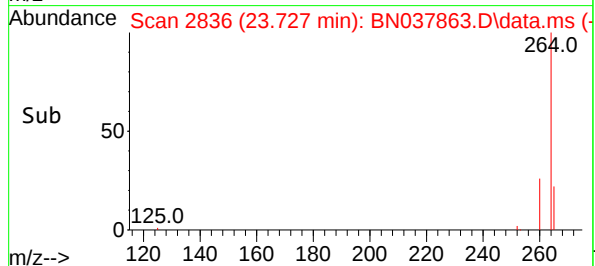
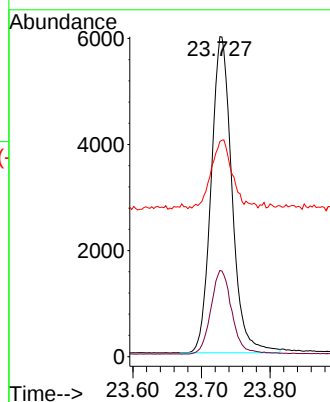
Tgt Ion:264 Resp: 12579

Ion Ratio Lower Upper

264 100

260 26.9 21.5 32.3

265 67.2 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.363 ng

RT: 26.107 min Scan# 3650

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

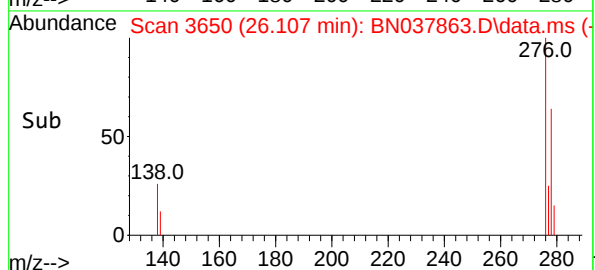
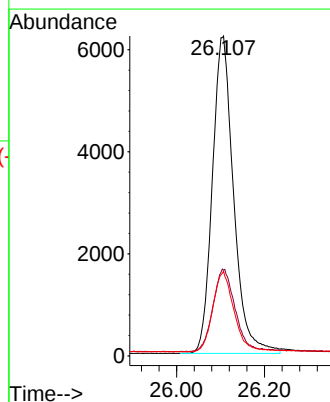
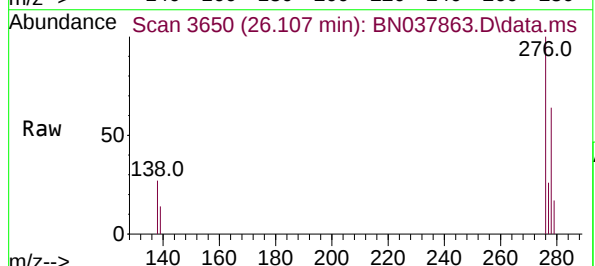
Tgt Ion:276 Resp: 20858

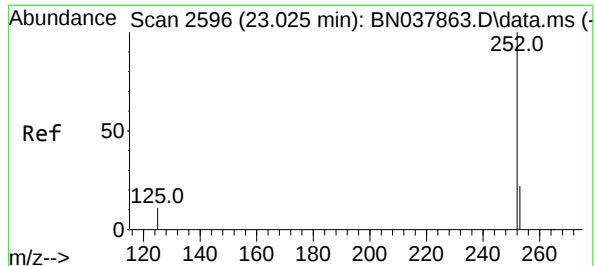
Ion Ratio Lower Upper

276 100

138 26.7 21.4 32.0

277 25.4 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.380 ng

RT: 23.025 min Scan# 2596

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

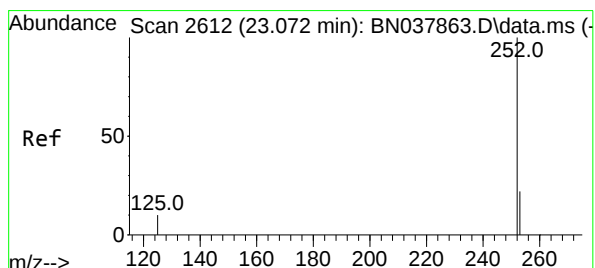
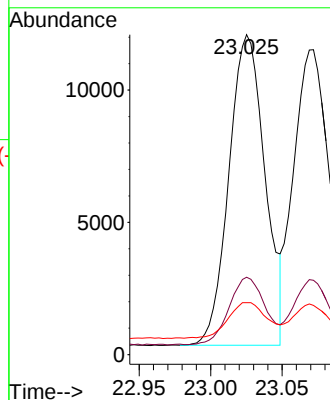
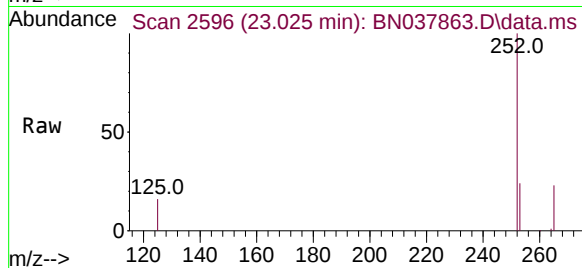
Tgt Ion:252 Resp: 20638

Ion Ratio Lower Upper

252 100

253 24.2 19.4 29.0

125 16.2 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.368 ng

RT: 23.072 min Scan# 2612

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

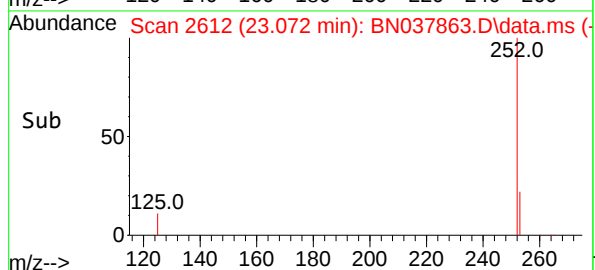
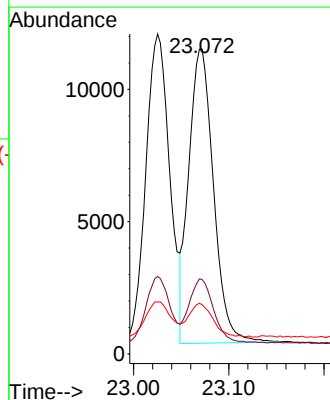
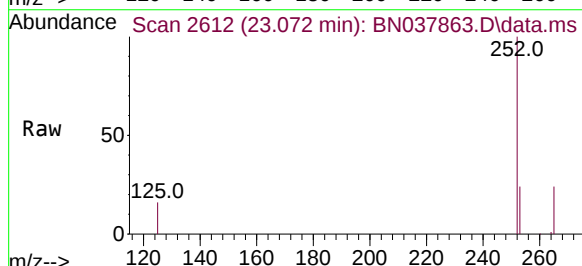
Tgt Ion:252 Resp: 20090

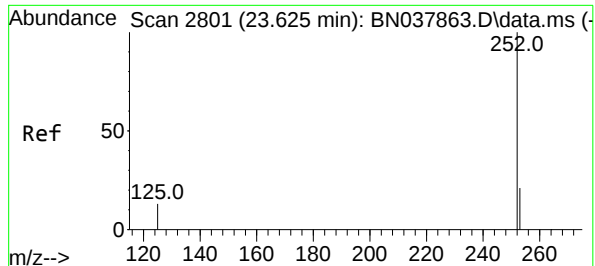
Ion Ratio Lower Upper

252 100

253 24.4 19.5 29.3

125 16.2 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.361 ng

RT: 23.625 min Scan# 2801

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

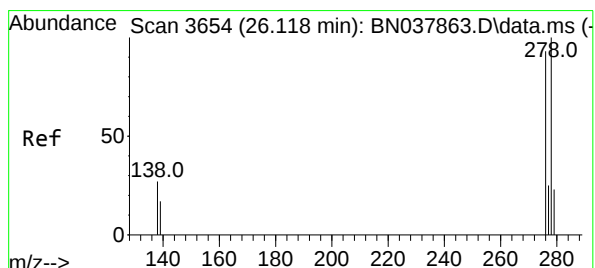
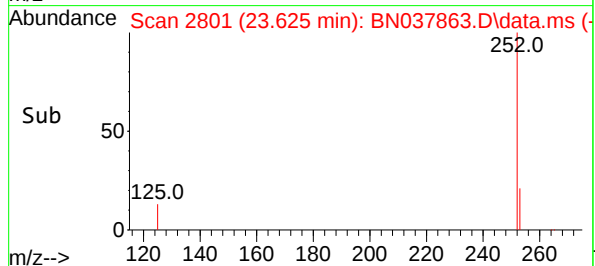
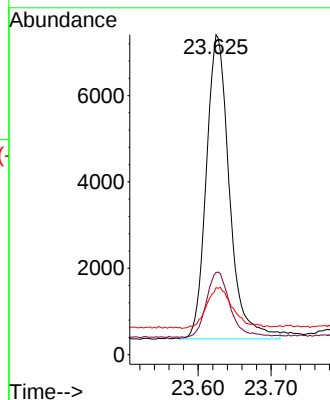
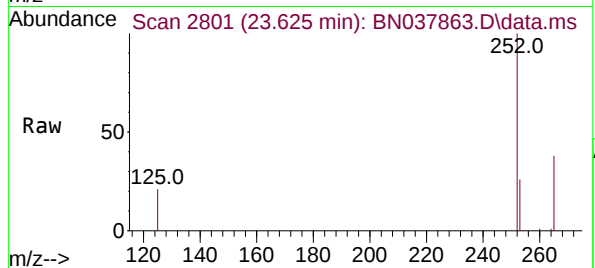
Tgt Ion:252 Resp: 15479

Ion Ratio Lower Upper

252 100

253 25.7 20.6 30.8

125 20.9 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

RT: 26.118 min Scan# 3654

Delta R.T. 0.000 min

Lab File: BN037863.D

Acq: 23 Sep 2025 13:25

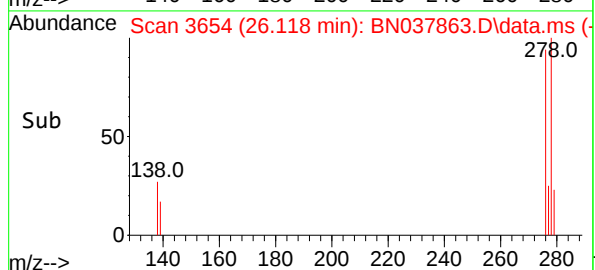
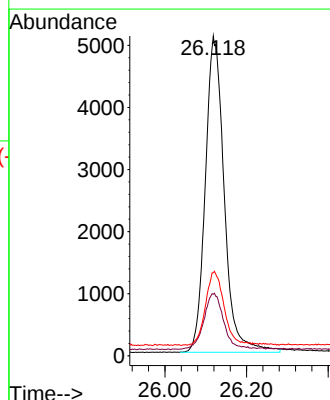
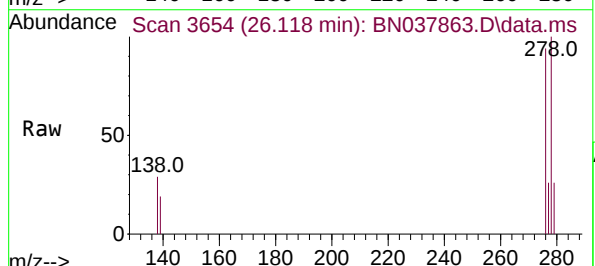
Tgt Ion:278 Resp: 16392

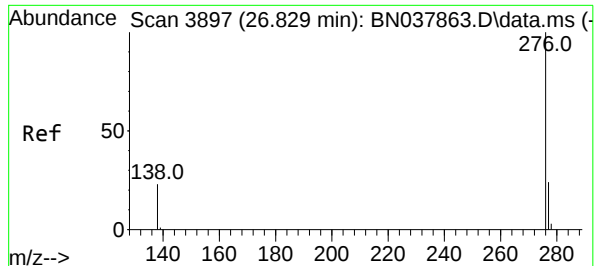
Ion Ratio Lower Upper

278 100

139 19.3 15.4 23.2

279 26.0 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.374 ng

RT: 26.829 min Scan# 38

Delta R.T. 0.000 min

Lab File: BN037863.D

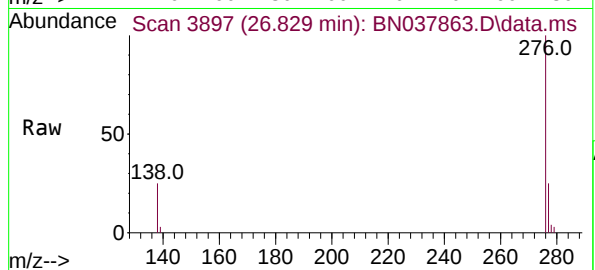
Acq: 23 Sep 2025 13:25

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



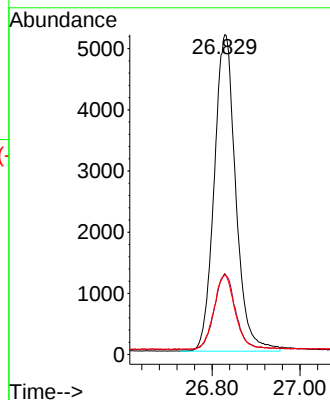
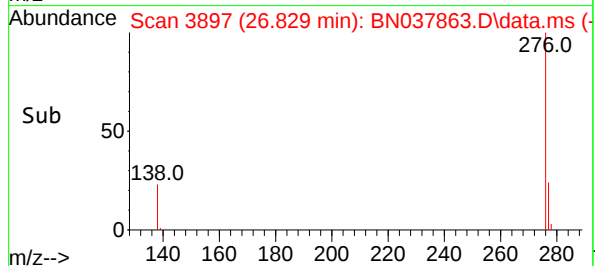
Tgt Ion:276 Resp: 17656

Ion Ratio Lower Upper

276 100

277 25.3 20.2 30.4

138 24.8 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
 Data File : BN037864.D  
 Acq On : 23 Sep 2025 14:02  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

Quant Time: Sep 23 16:22:19 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:17:53 2025  
 Response via : Initial Calibration

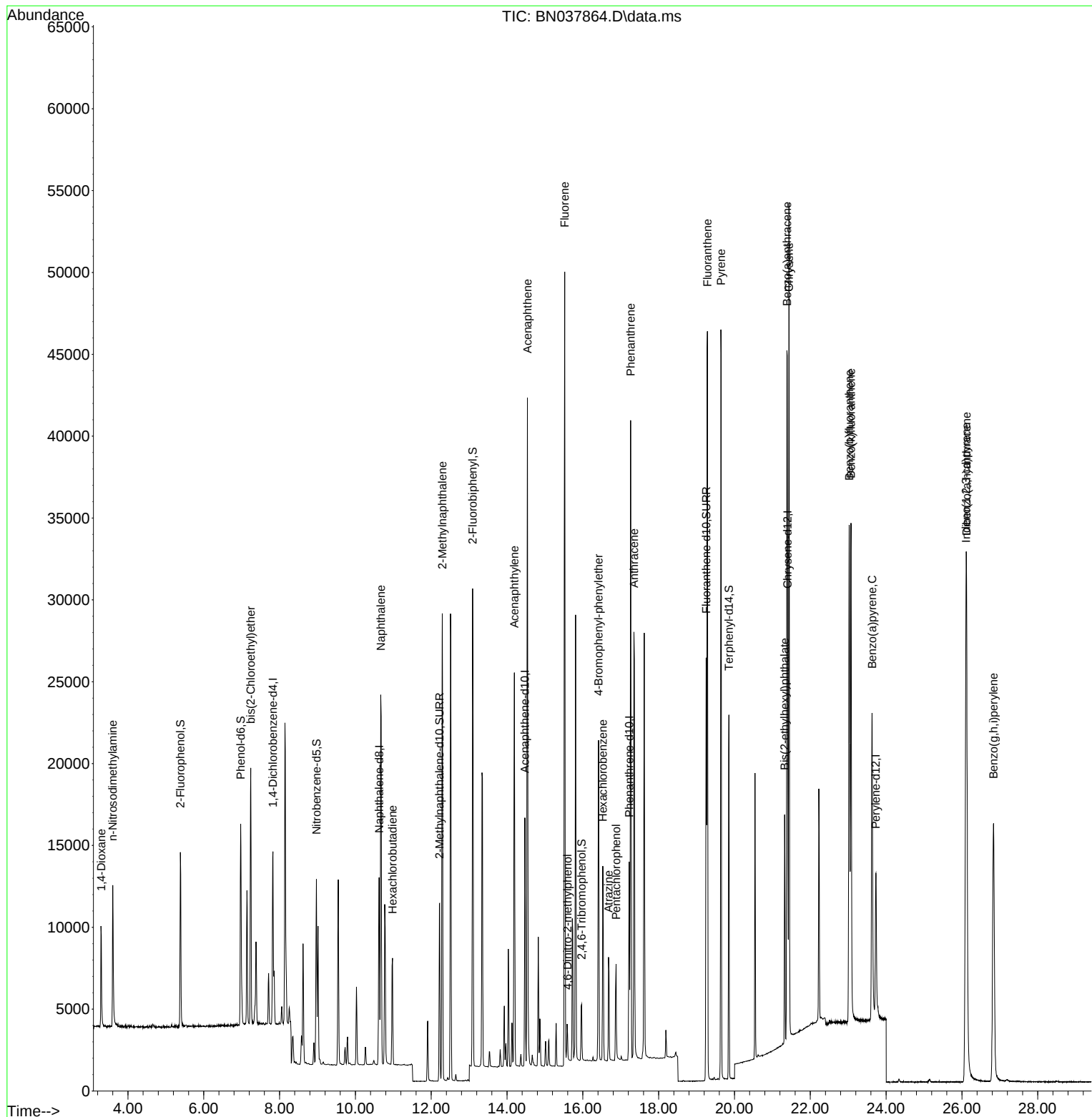
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.825  | 152  | 5204     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.626 | 136  | 14715    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.473 | 164  | 7889     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.223 | 188  | 15207    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.402 | 240  | 13674    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.730 | 264  | 12464    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.384  | 112  | 8737     | 0.736 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.973  | 99   | 11319    | 0.725 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.971  | 82   | 8536     | 0.761 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.217 | 152  | 14822    | 0.725 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.969 | 330  | 2186     | 0.687 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.094 | 172  | 24413    | 0.756 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.252 | 212  | 27365    | 0.715 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.852 | 244  | 20095    | 0.738 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.297  | 88   | 4191     | 0.793 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.600  | 42   | 5472     | 0.779 | ng    | # 89     |
| 6) bis(2-Chloroethyl)ether    | 7.240  | 93   | 11096    | 0.766 | ng    | 99       |
| 9) Naphthalene                | 10.669 | 128  | 30935    | 0.763 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.979 | 225  | 5393     | 0.780 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.293 | 142  | 20065    | 0.758 | ng    | 99       |
| 16) Acenaphthylene            | 14.195 | 152  | 26510    | 0.740 | ng    | 99       |
| 17) Acenaphthene              | 14.537 | 154  | 19057    | 0.747 | ng    | 100      |
| 18) Fluorene                  | 15.522 | 166  | 23130    | 0.749 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198  | 1414     | 0.755 | ng    | # 77     |
| 21) 4-Bromophenyl-phenylether | 16.416 | 248  | 7412     | 0.748 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.528 | 284  | 9138     | 0.761 | ng    | 99       |
| 23) Atrazine                  | 16.677 | 200  | 5405     | 0.716 | ng    | # 87     |
| 24) Pentachlorophenol         | 16.875 | 266  | 2945     | 0.714 | ng    | 97       |
| 25) Phenanthrene              | 17.260 | 178  | 37218    | 0.744 | ng    | 99       |
| 26) Anthracene                | 17.347 | 178  | 32138    | 0.740 | ng    | 100      |
| 28) Fluoranthene              | 19.285 | 202  | 41292    | 0.749 | ng    | 100      |
| 30) Pyrene                    | 19.643 | 202  | 40377    | 0.748 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.384 | 228  | 35130    | 0.735 | ng    | 100      |
| 33) Chrysene                  | 21.438 | 228  | 39541    | 0.765 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.322 | 149  | 13026    | 0.689 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.107 | 276  | 42560    | 0.747 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 23.025 | 252  | 39646    | 0.738 | ng    | 96       |
| 38) Benzo(k)fluoranthene      | 23.075 | 252  | 40574    | 0.750 | ng    | 96       |
| 39) Benzo(a)pyrene            | 23.627 | 252  | 31265    | 0.735 | ng    | 94       |
| 40) Dibenzo(a,h)anthracene    | 26.121 | 278  | 33235    | 0.747 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 26.835 | 276  | 34817    | 0.745 | ng    | 98       |

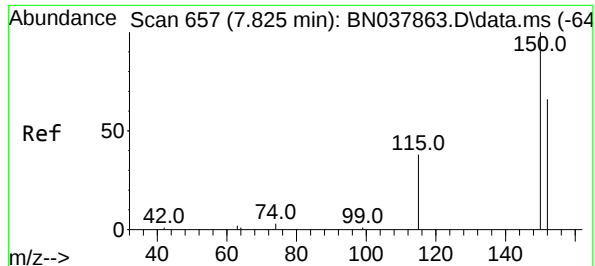
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
Data File : BN037864.D  
Acq On : 23 Sep 2025 14:02  
Operator : RC/JU  
Sample : SSTDIC0.8  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.8

Quant Time: Sep 23 16:22:19 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 16:17:53 2025  
Response via : Initial Calibration

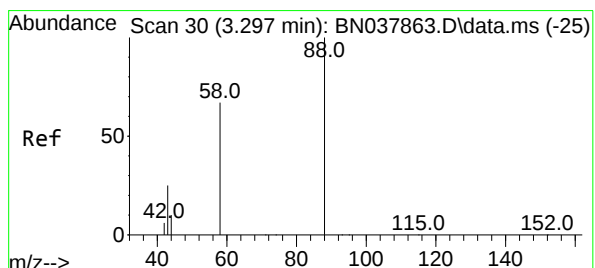
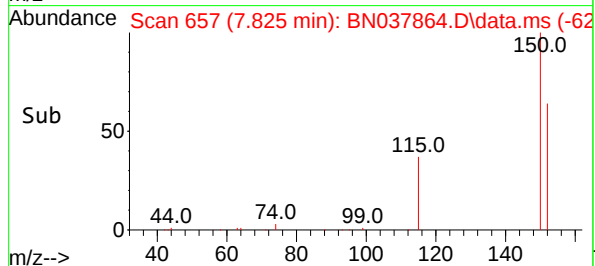
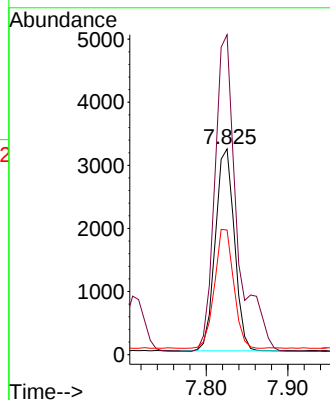
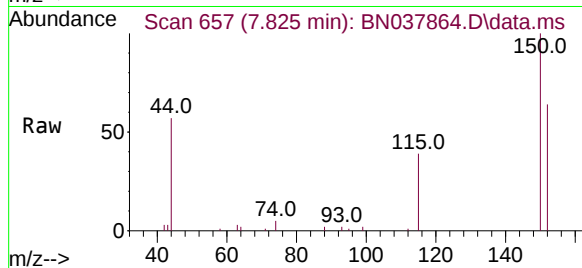




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.825 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

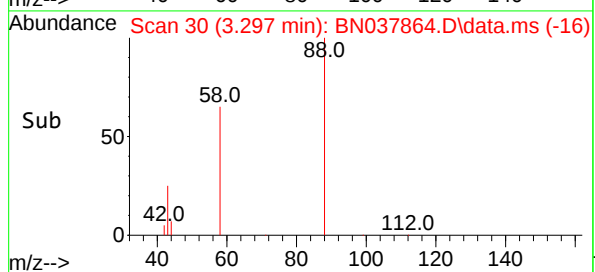
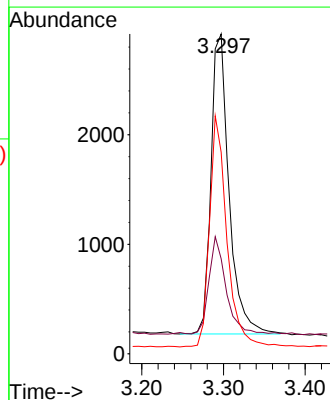
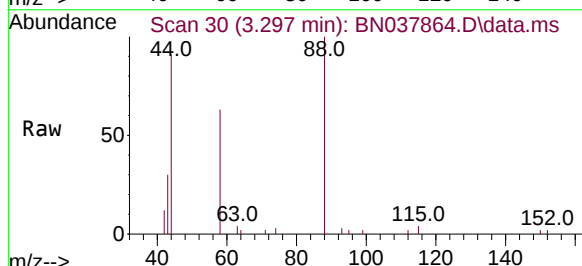
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

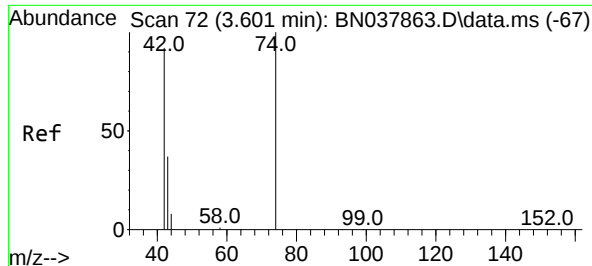
Tgt Ion:152 Resp: 5204  
Ion Ratio Lower Upper  
152 100  
150 155.6 121.0 181.4  
115 60.6 47.4 71.0



#2  
1,4-Dioxane  
Concen: 0.793 ng  
RT: 3.297 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

Tgt Ion: 88 Resp: 4191  
Ion Ratio Lower Upper  
88 100  
43 30.7 26.6 39.8  
58 74.2 58.9 88.3

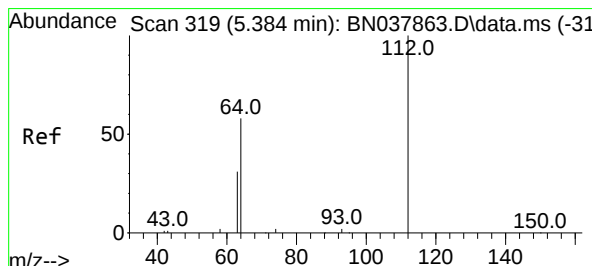
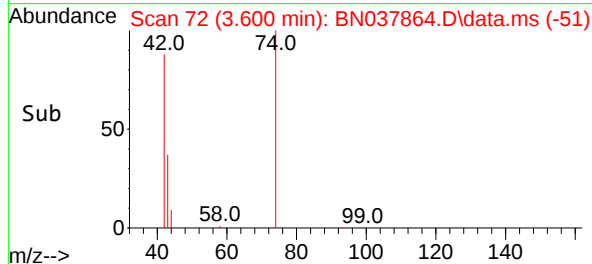
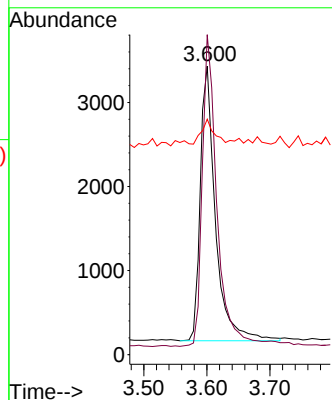
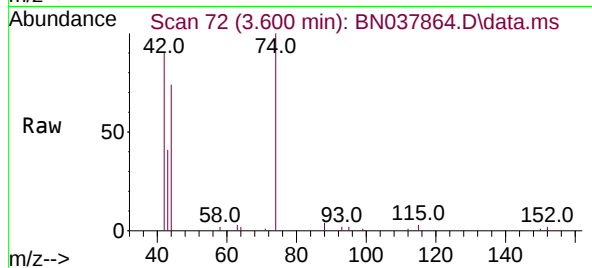




#3  
n-Nitrosodimethylamine  
Concen: 0.779 ng  
RT: 3.600 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

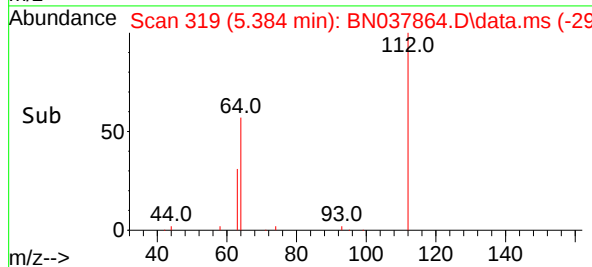
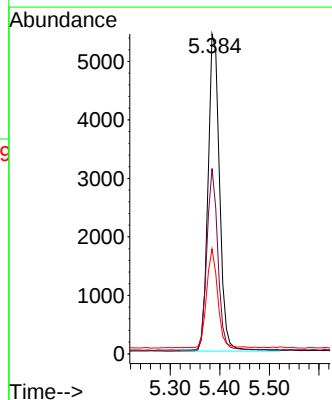
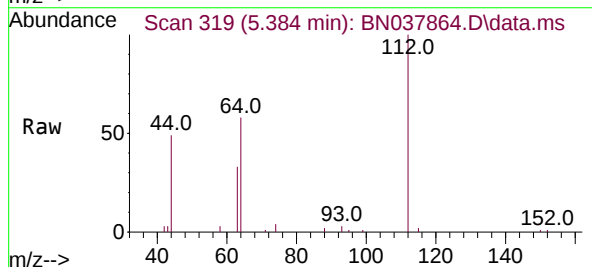
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

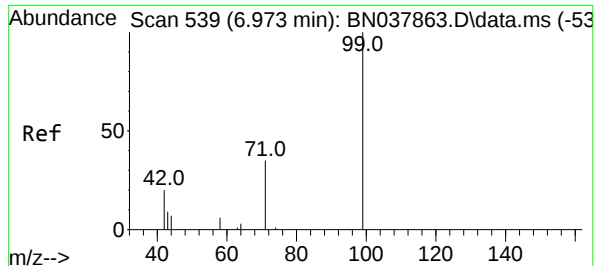
Tgt Ion: 42 Resp: 5472  
Ion Ratio Lower Upper  
42 100  
74 111.5 93.4 140.0  
44 7.3 22.2 33.4#



#4  
2-Fluorophenol  
Concen: 0.736 ng  
RT: 5.384 min Scan# 319  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

Tgt Ion: 112 Resp: 8737  
Ion Ratio Lower Upper  
112 100  
64 54.9 44.6 66.8  
63 29.8 24.9 37.3

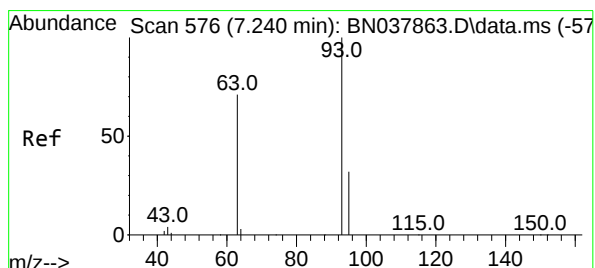
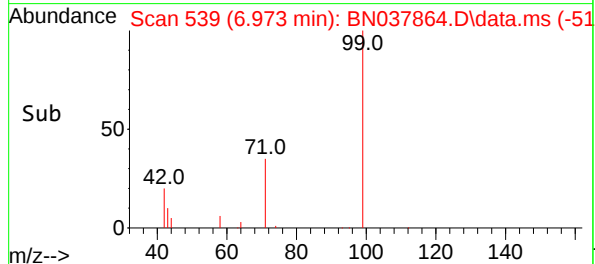
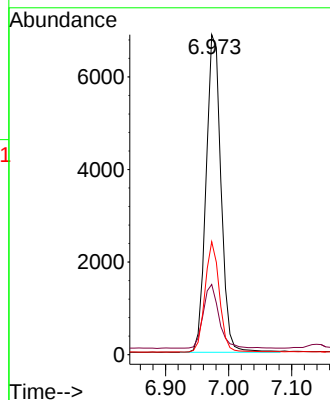
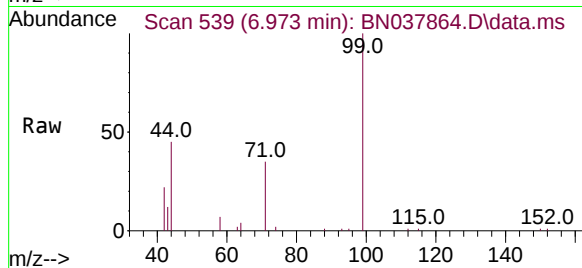




#5  
Phenol-d6  
Concen: 0.725 ng  
RT: 6.973 min Scan# 539  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

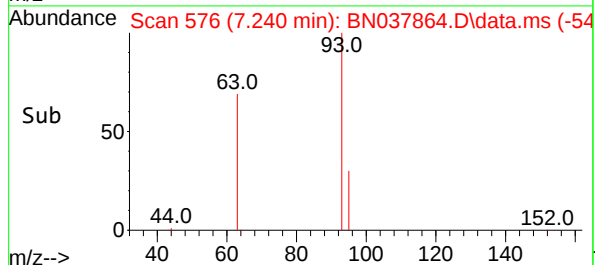
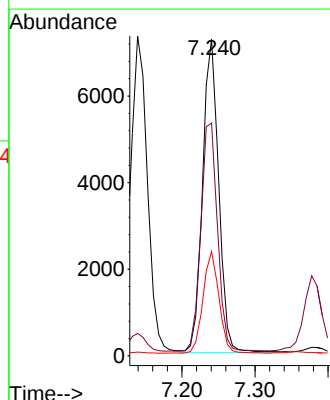
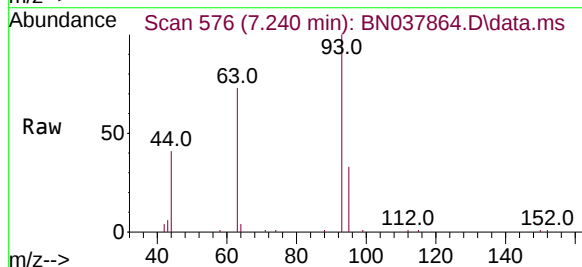
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

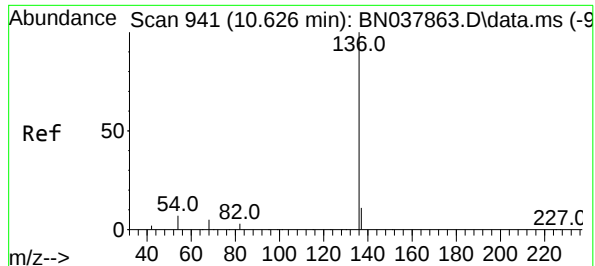
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 11319 |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 21.0  | 17.2  | 25.8  |
| 71       | 33.5  | 27.3  | 40.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.766 ng  
RT: 7.240 min Scan# 576  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 11096 |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 75.5  | 60.1  | 90.1  |
| 95       | 32.2  | 25.4  | 38.2  |

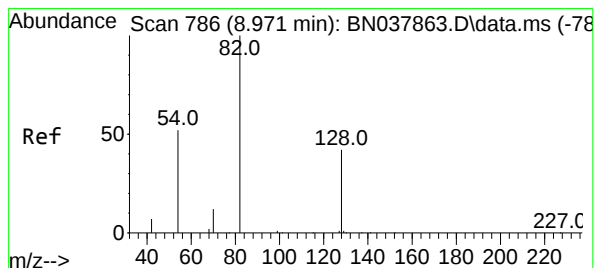
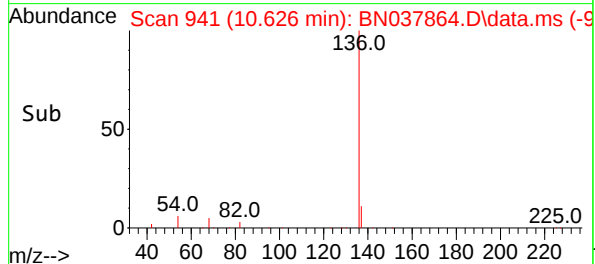
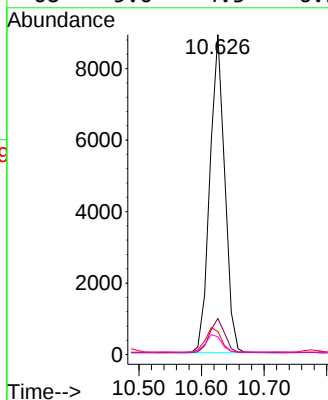
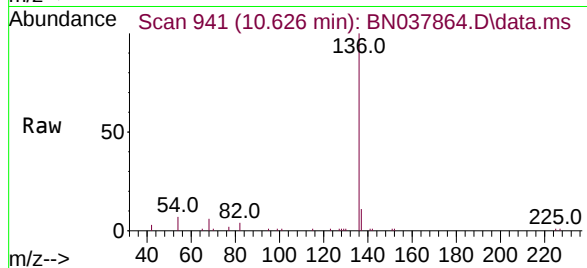




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.626 min Scan# 941  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

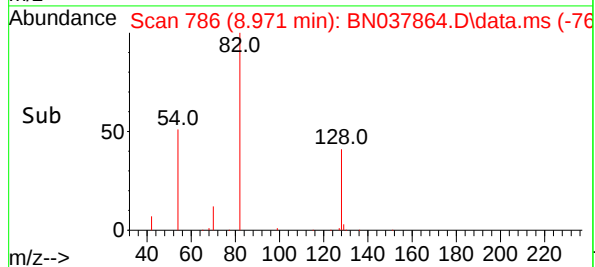
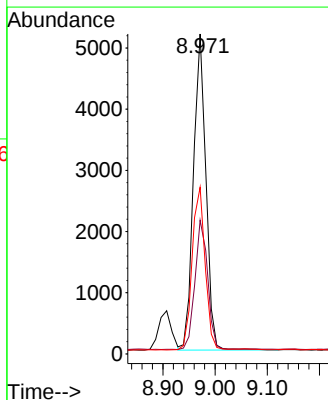
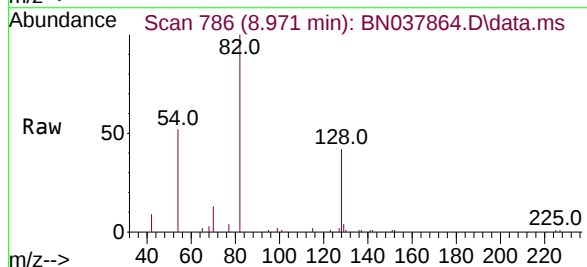
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

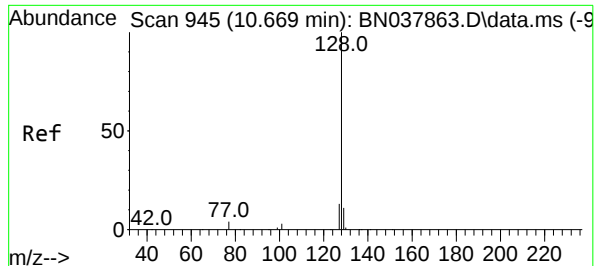
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 14715 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.3  | 9.0   | 13.4  |
| 54       | 7.2   | 5.8   | 8.8   |
| 68       | 5.6   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.761 ng  
RT: 8.971 min Scan# 786  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 8536  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 41.8  | 34.8  | 52.2  |
| 54       | 52.1  | 42.2  | 63.2  |

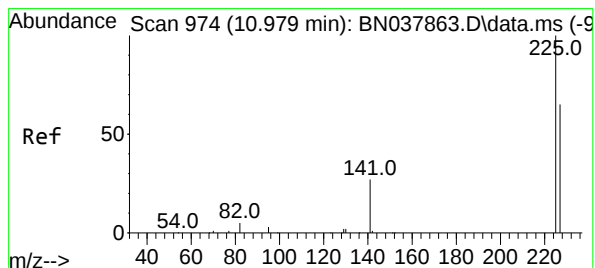
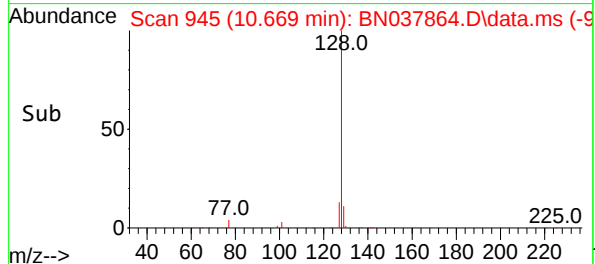
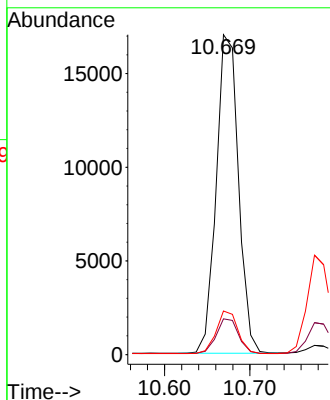
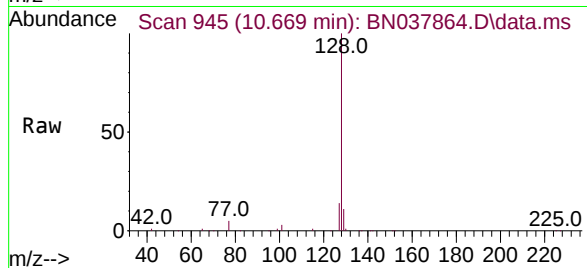




#9  
Naphthalene  
Concen: 0.763 ng  
RT: 10.669 min Scan# 945  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

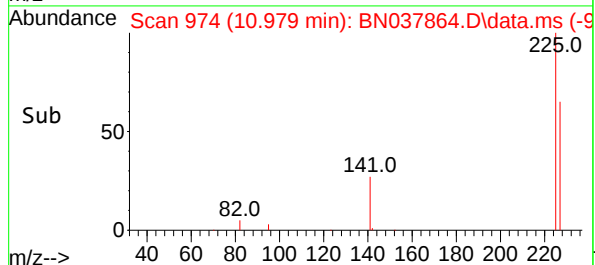
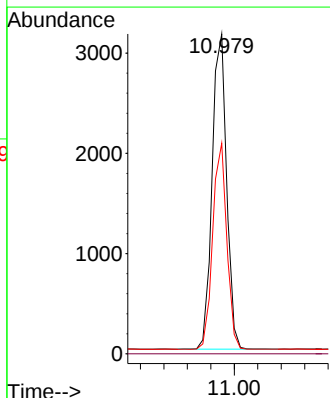
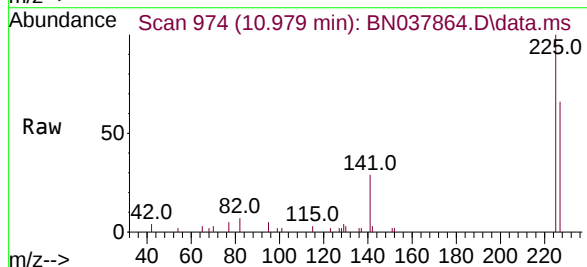
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

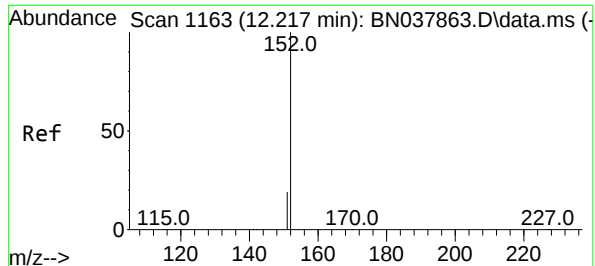
Tgt Ion:128 Resp: 30935  
Ion Ratio Lower Upper  
128 100  
129 11.2 9.2 13.8  
127 13.6 11.0 16.6



#10  
Hexachlorobutadiene  
Concen: 0.780 ng  
RT: 10.979 min Scan# 974  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

Tgt Ion:225 Resp: 5393  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.7 51.4 77.2

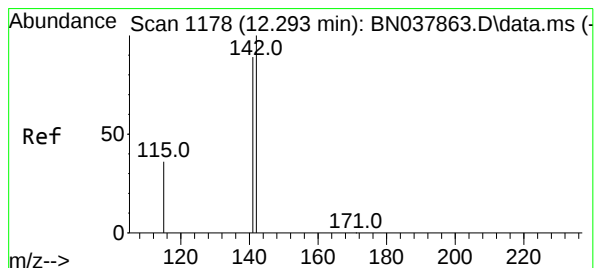
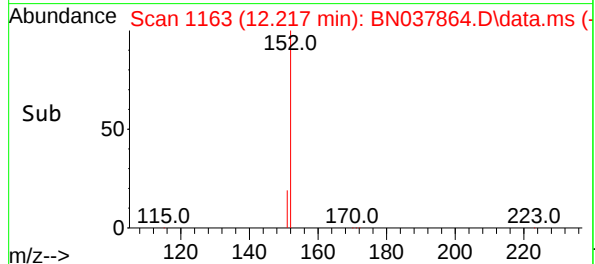
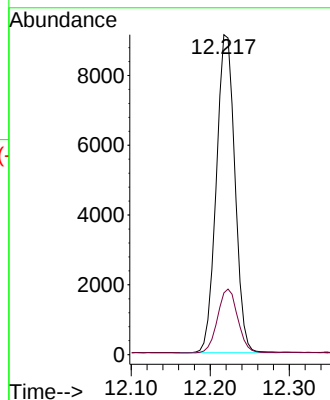
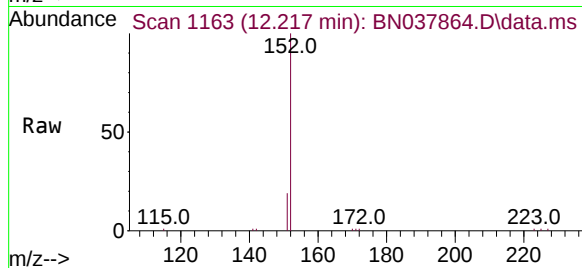




#11  
2-Methylnaphthalene-d10  
Concen: 0.725 ng  
RT: 12.217 min Scan# 1163  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

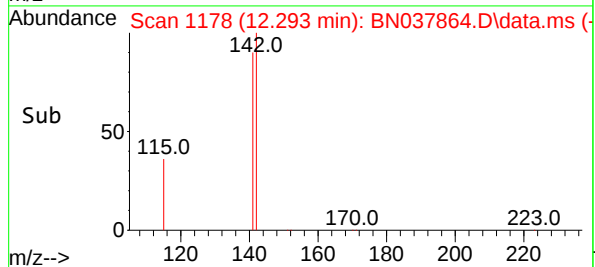
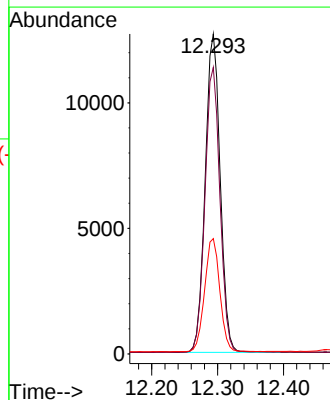
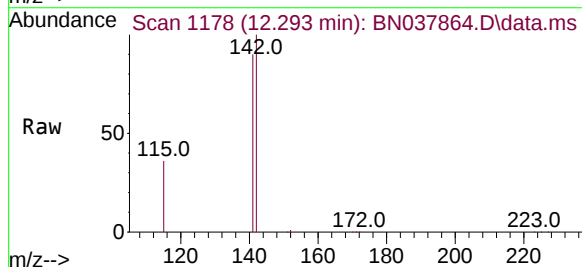
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

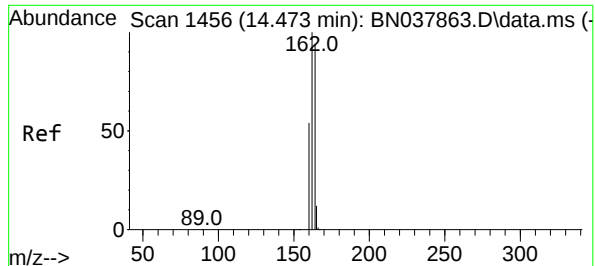
Tgt Ion:152 Resp: 14822  
Ion Ratio Lower Upper  
152 100  
151 21.7 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 0.758 ng  
RT: 12.293 min Scan# 1178  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

Tgt Ion:142 Resp: 20065  
Ion Ratio Lower Upper  
142 100  
141 89.5 71.2 106.8  
115 36.0 29.7 44.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.473 min Scan# 1456

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

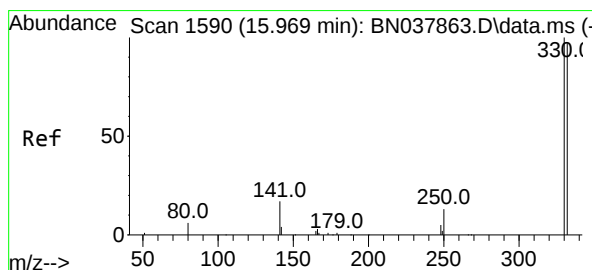
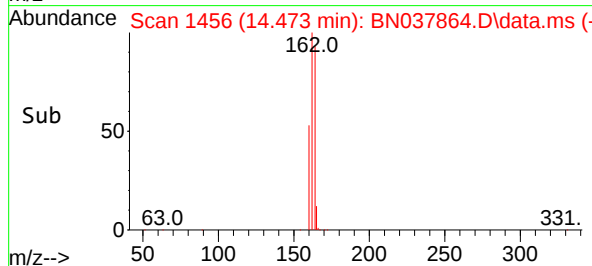
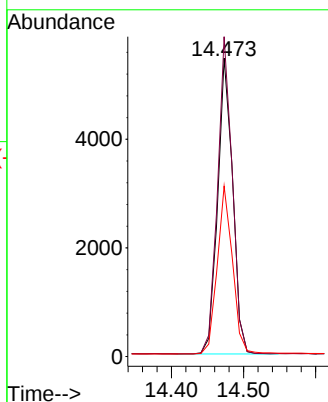
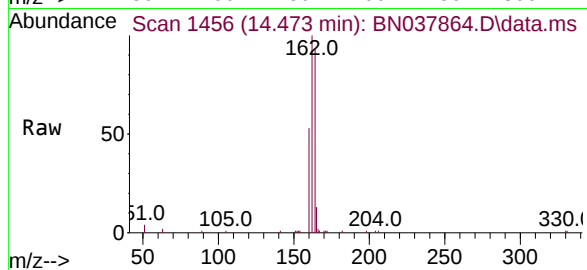
Tgt Ion:164 Resp: 7889

Ion Ratio Lower Upper

164 100

162 107.2 84.8 127.2

160 57.1 46.1 69.1



#14

2,4,6-Tribromophenol

Concen: 0.687 ng

RT: 15.969 min Scan# 1590

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

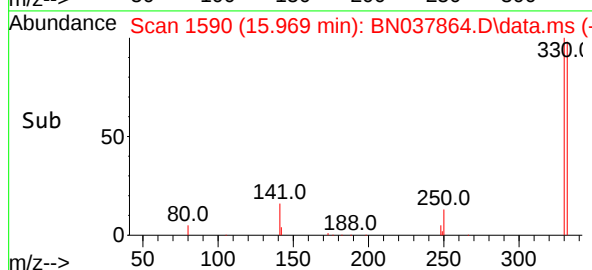
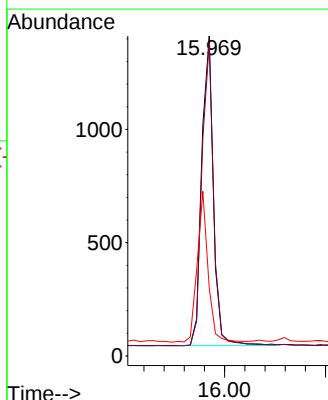
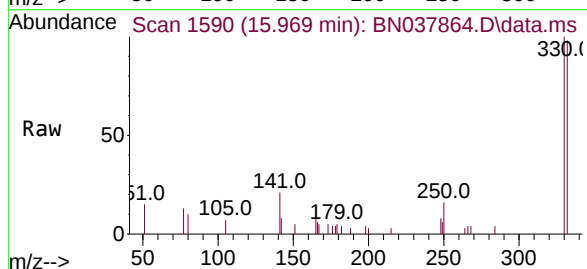
Tgt Ion:330 Resp: 2186

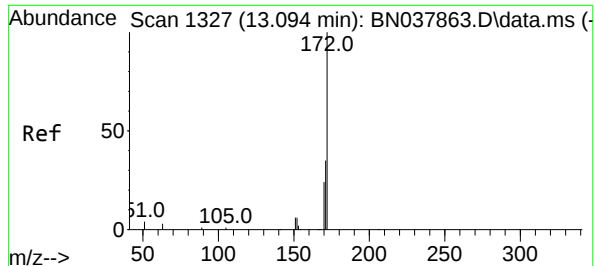
Ion Ratio Lower Upper

330 100

332 97.2 77.2 115.8

141 45.1 37.2 55.8





#15

2-Fluorobiphenyl

Concen: 0.756 ng

RT: 13.094 min Scan# 1327

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

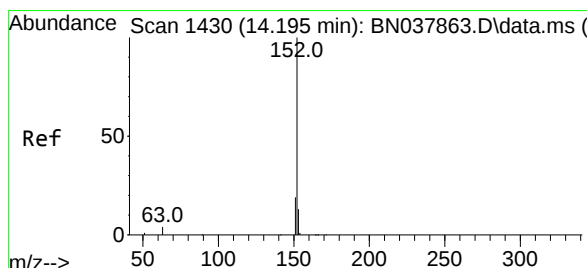
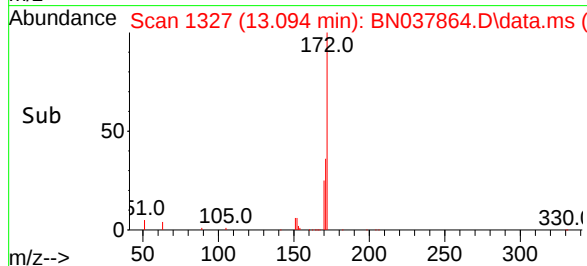
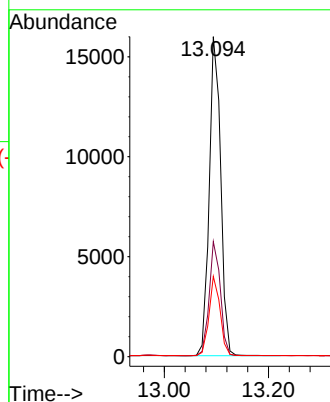
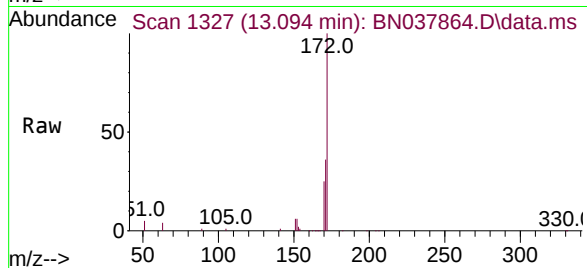
Tgt Ion:172 Resp: 24413

Ion Ratio Lower Upper

172 100

171 36.0 28.6 43.0

170 25.1 19.7 29.5



#16

Acenaphthylene

Concen: 0.740 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

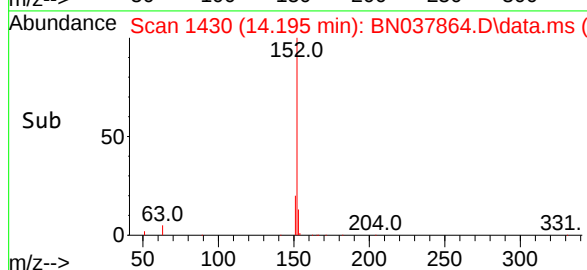
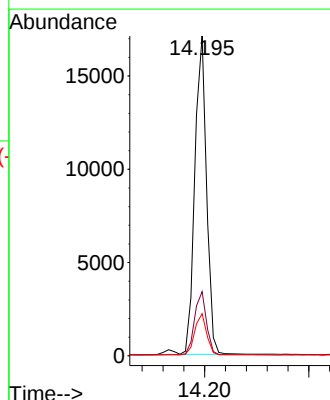
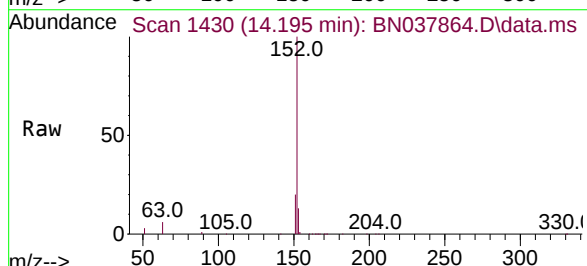
Tgt Ion:152 Resp: 26510

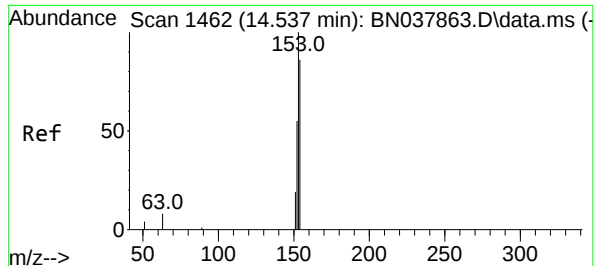
Ion Ratio Lower Upper

152 100

151 20.2 15.8 23.8

153 12.9 10.5 15.7





#17

Acenaphthene

Concen: 0.747 ng

RT: 14.537 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

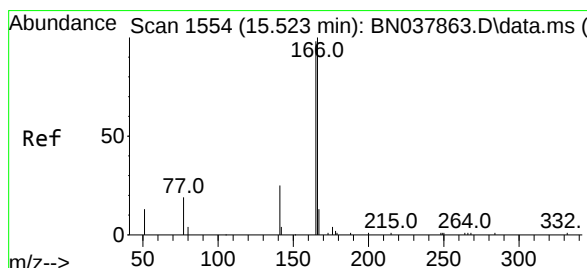
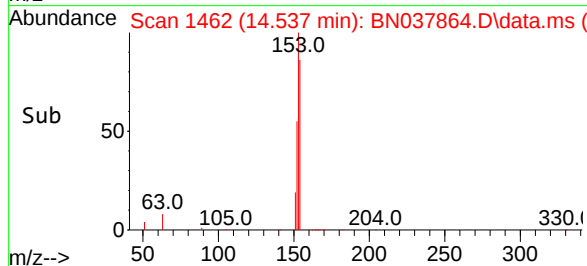
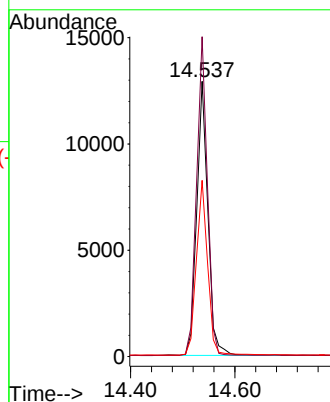
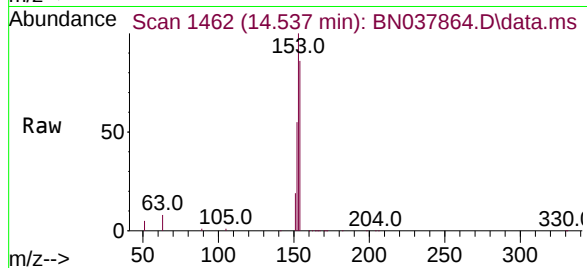
Tgt Ion:154 Resp: 19057

Ion Ratio Lower Upper

154 100

153 112.9 90.5 135.7

152 64.2 51.8 77.8



#18

Fluorene

Concen: 0.749 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

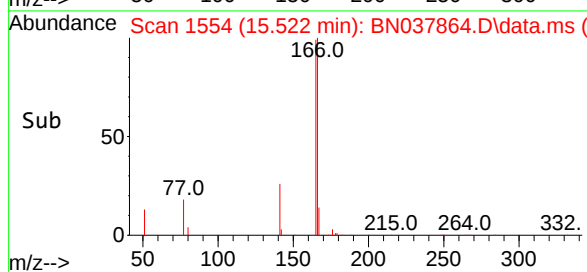
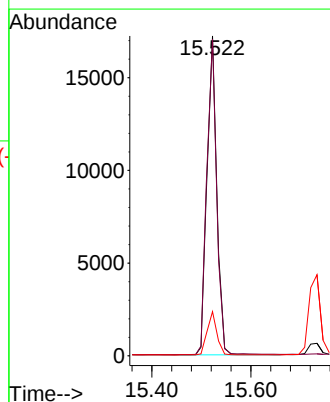
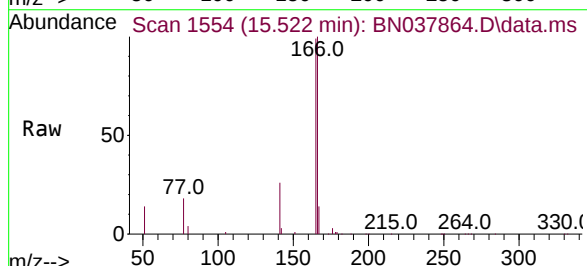
Tgt Ion:166 Resp: 23130

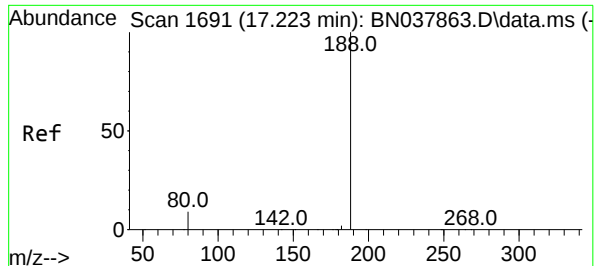
Ion Ratio Lower Upper

166 100

165 99.4 79.0 118.4

167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

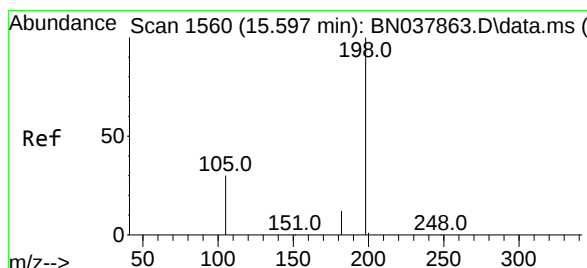
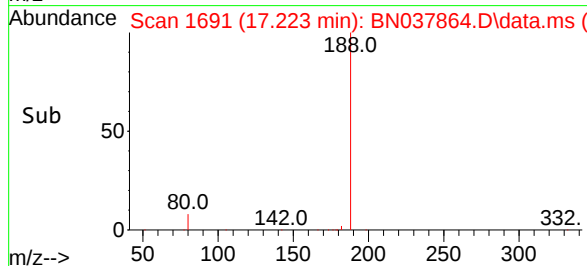
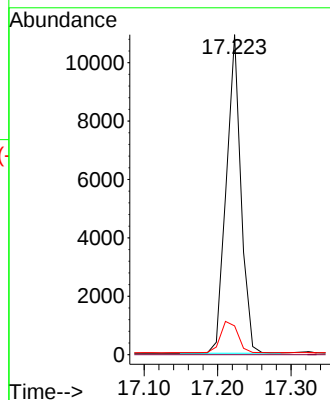
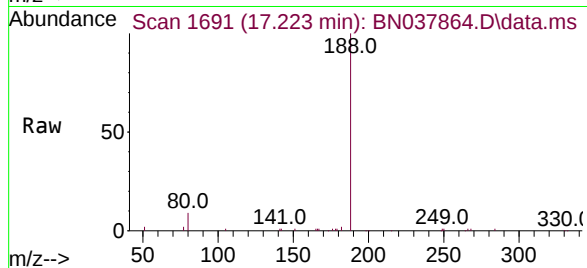
Tgt Ion:188 Resp: 15207

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.0 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.755 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

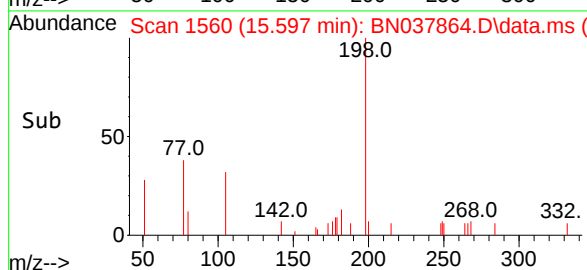
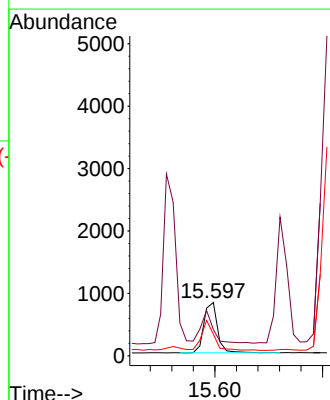
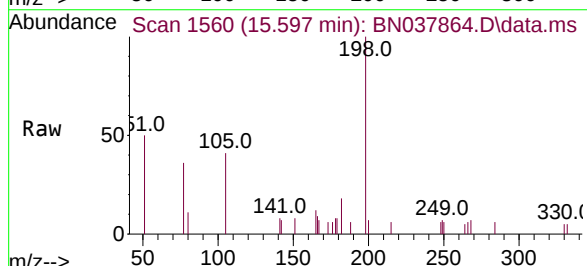
Tgt Ion:198 Resp: 1414

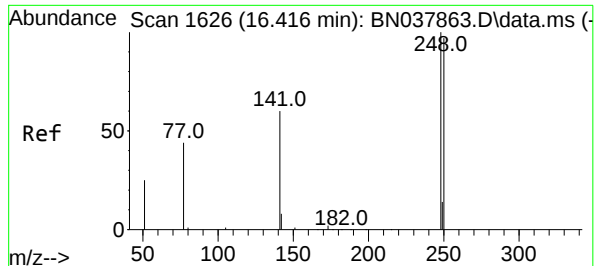
Ion Ratio Lower Upper

198 100

51 49.5 59.1 88.7#

105 41.0 41.3 61.9#

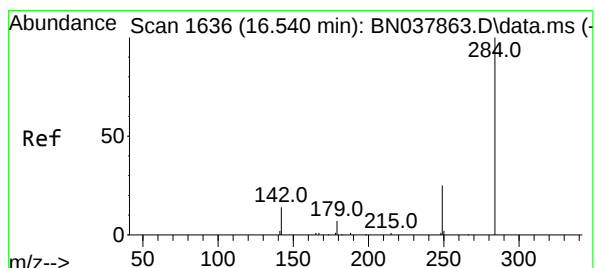
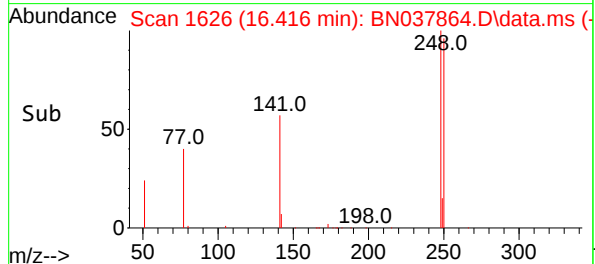
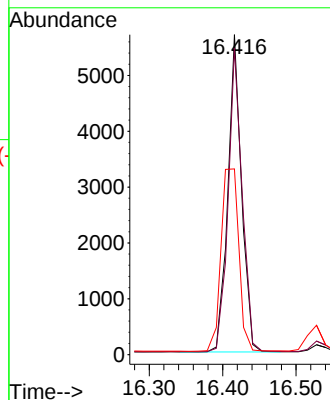
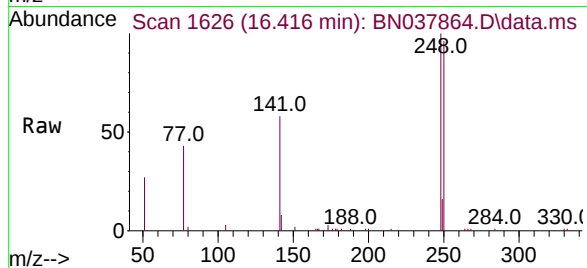




#21  
4-Bromophenyl-phenylether  
Concen: 0.748 ng  
RT: 16.416 min Scan# 1626  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

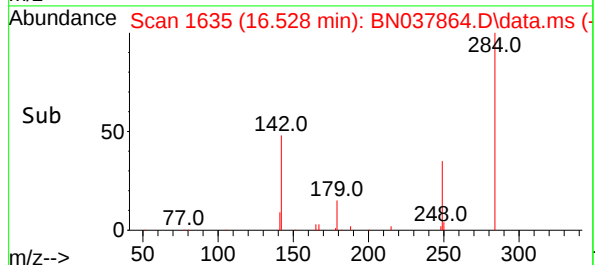
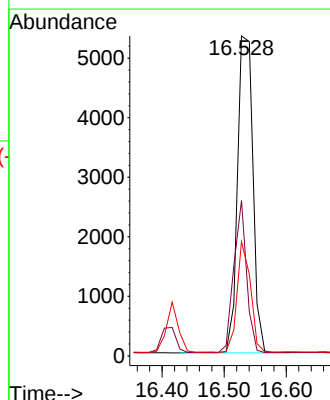
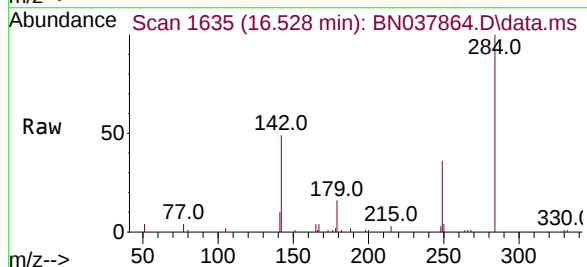
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

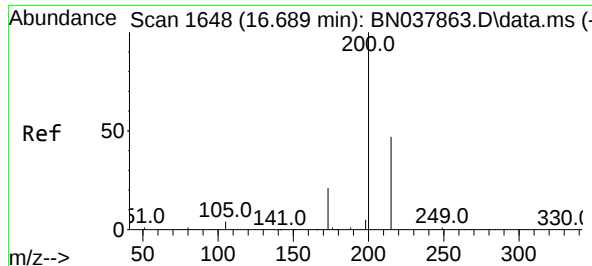
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 95.7  | 77.6  | 116.4 |
| 141     | 58.0  | 48.8  | 73.2  |



#22  
Hexachlorobenzene  
Concen: 0.761 ng  
RT: 16.528 min Scan# 1635  
Delta R.T. -0.012 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 39.7  | 30.9  | 46.3  |
| 249     | 30.2  | 23.9  | 35.9  |

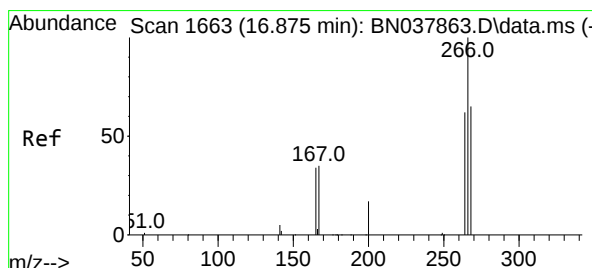
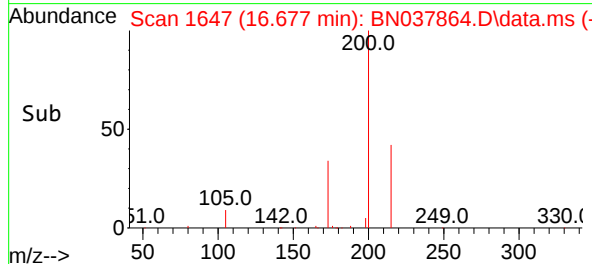
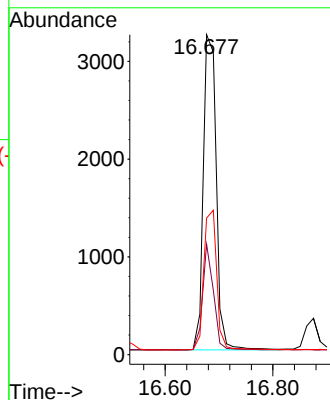
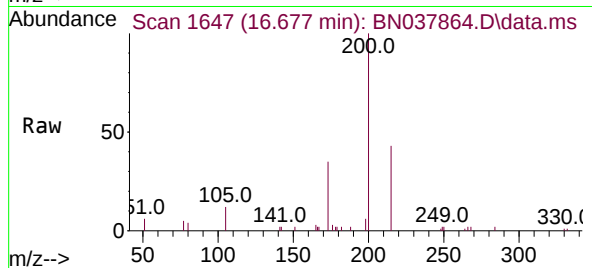




#23  
Atrazine  
Concen: 0.716 ng  
RT: 16.677 min Scan# 1647  
Delta R.T. -0.012 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

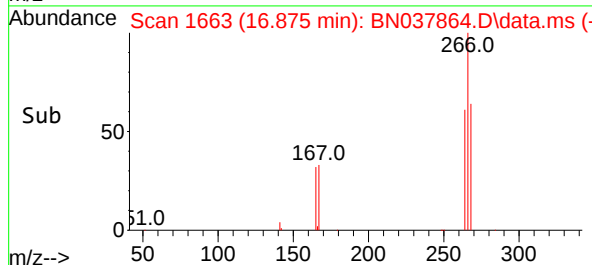
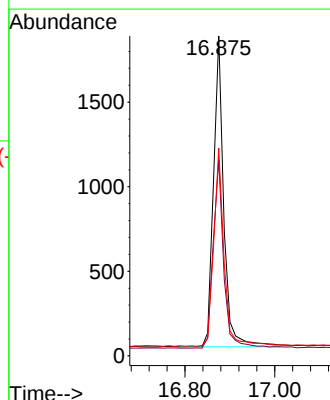
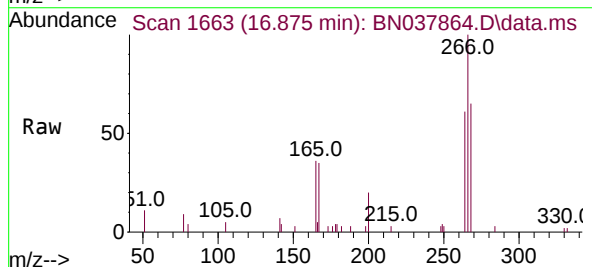
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

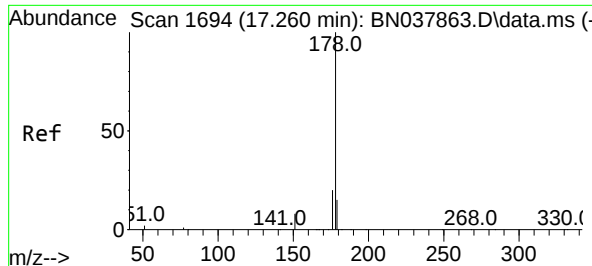
Tgt Ion:200 Resp: 5405  
Ion Ratio Lower Upper  
200 100  
173 34.5 18.3 27.5#  
215 42.7 38.6 58.0



#24  
Pentachlorophenol  
Concen: 0.714 ng  
RT: 16.875 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

Tgt Ion:266 Resp: 2945  
Ion Ratio Lower Upper  
266 100  
264 62.0 50.9 76.3  
268 64.2 54.3 81.5

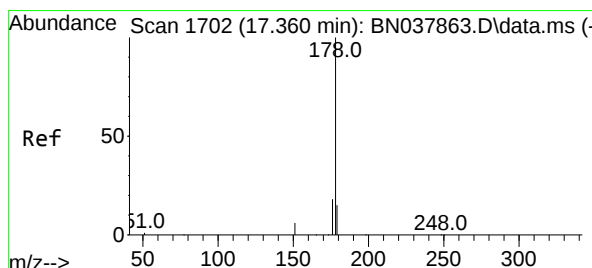
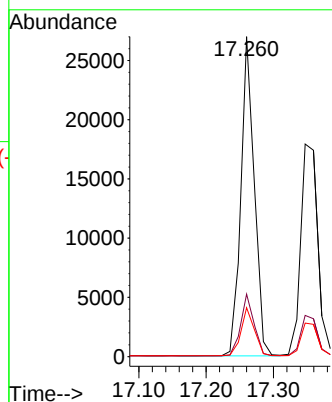
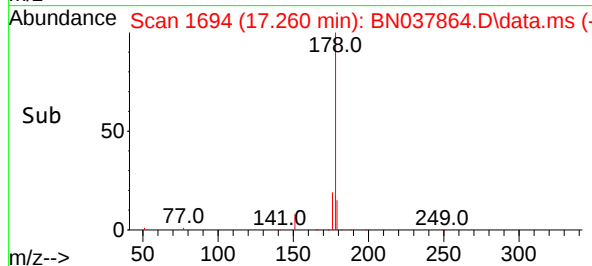
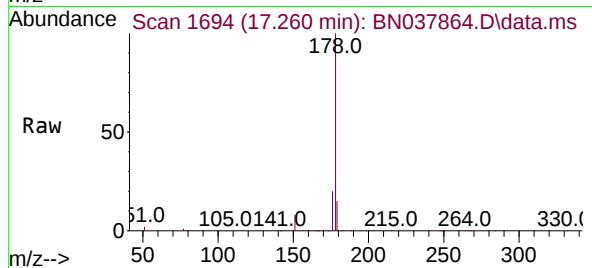




#25  
Phenanthrene  
Concen: 0.744 ng  
RT: 17.260 min Scan# 1694  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

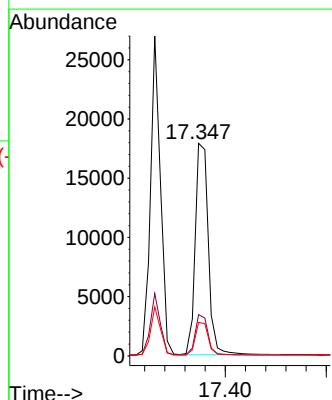
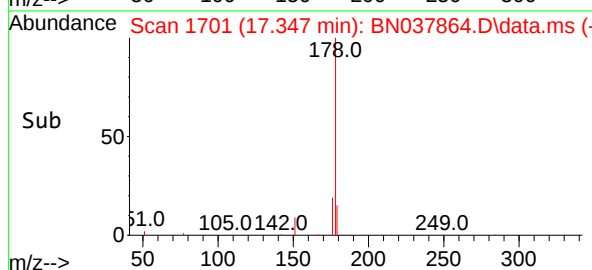
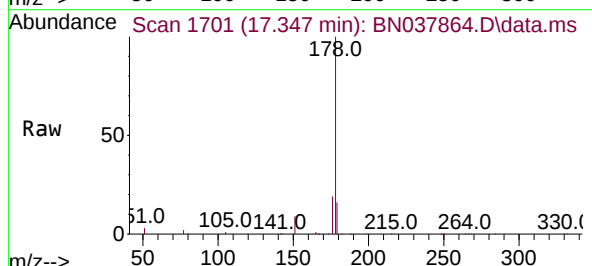
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

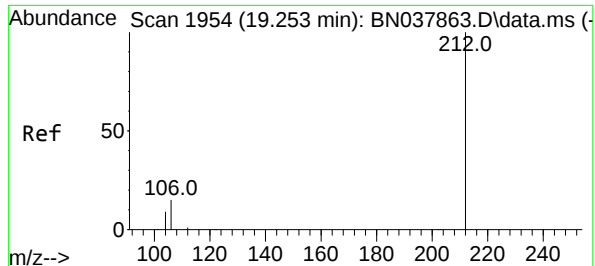
Tgt Ion:178 Resp: 37218  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.7 23.5  
179 15.1 12.3 18.5



#26  
Anthracene  
Concen: 0.740 ng  
RT: 17.347 min Scan# 1701  
Delta R.T. -0.012 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

Tgt Ion:178 Resp: 32138  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.4  
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.715 ng

RT: 19.252 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

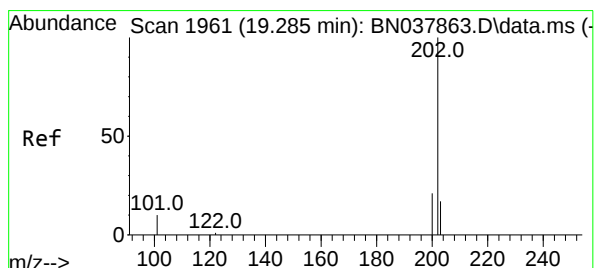
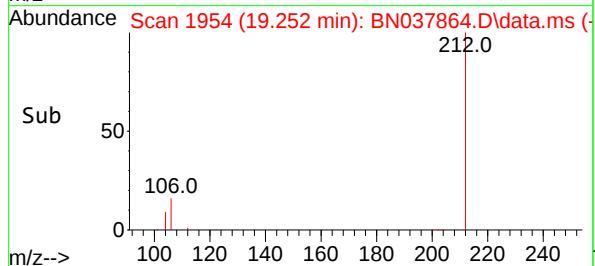
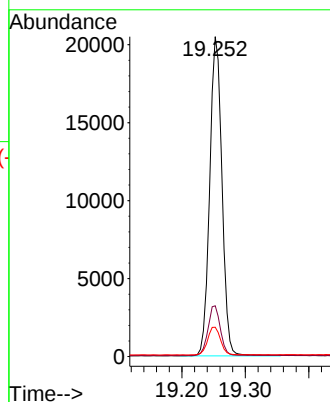
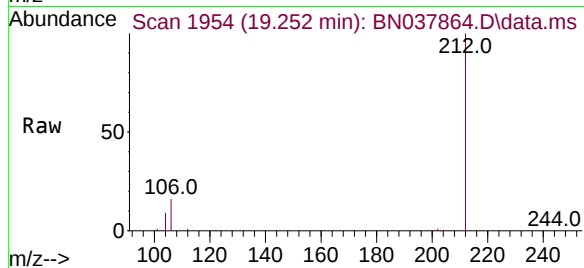
Tgt Ion:212 Resp: 27365

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.749 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

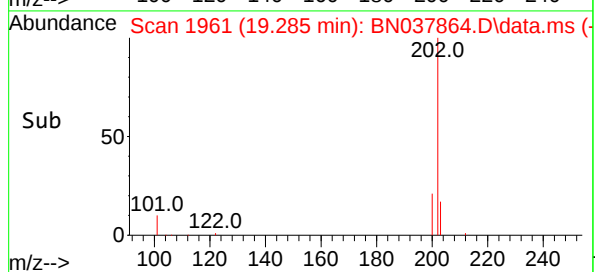
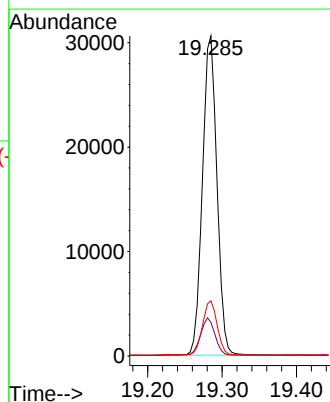
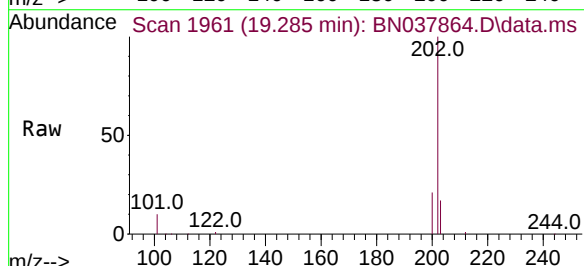
Tgt Ion:202 Resp: 41292

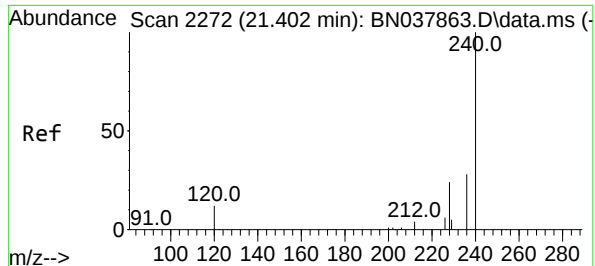
Ion Ratio Lower Upper

202 100

101 11.9 9.3 13.9

203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

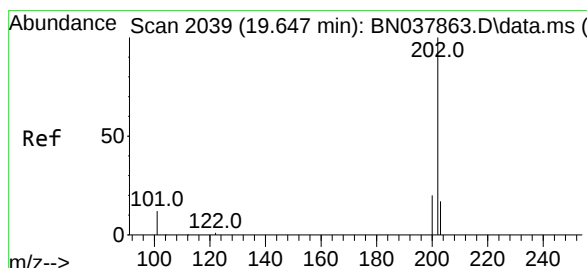
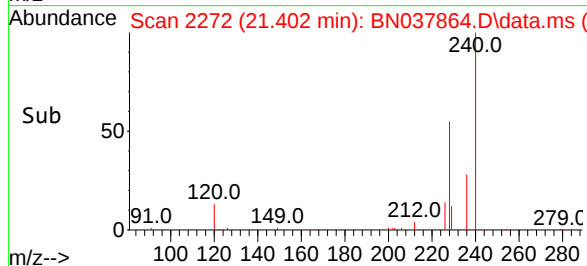
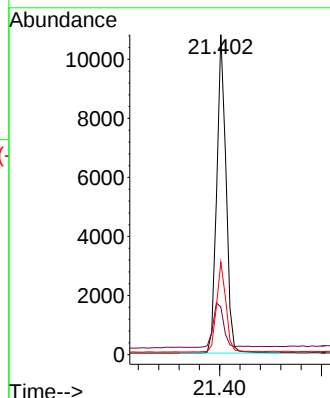
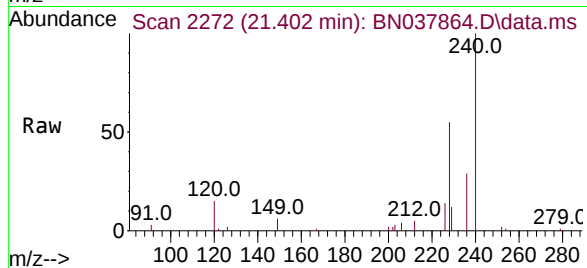
Tgt Ion:240 Resp: 13674

Ion Ratio Lower Upper

240 100

120 14.9 11.4 17.2

236 28.9 23.0 34.6



#30

Pyrene

Concen: 0.748 ng

RT: 19.643 min Scan# 2038

Delta R.T. -0.005 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

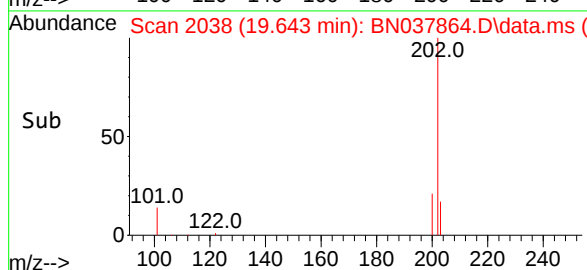
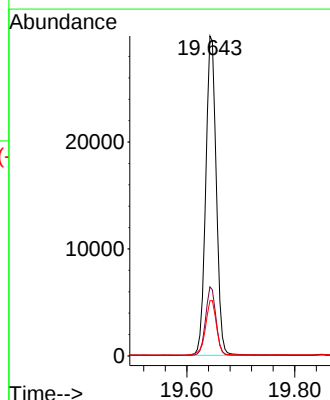
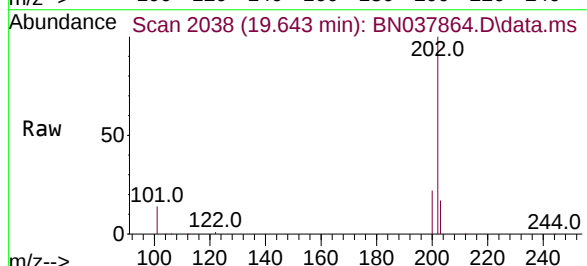
Tgt Ion:202 Resp: 40377

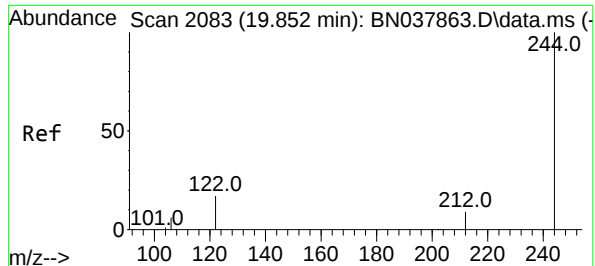
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.7 14.2 21.4

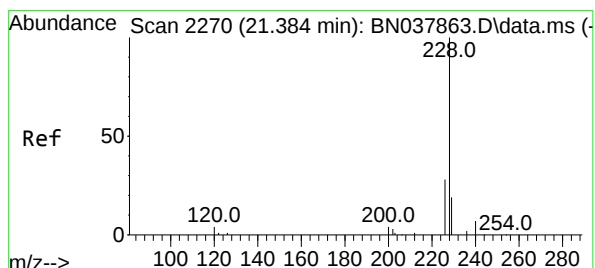
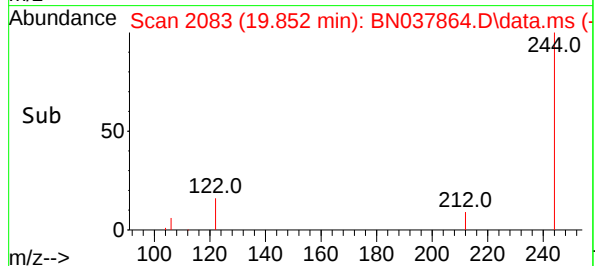
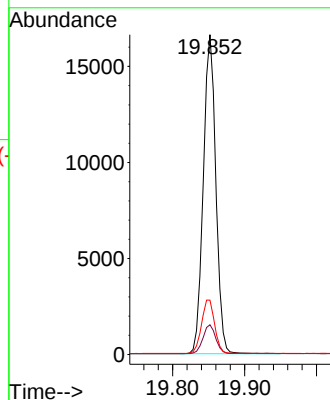
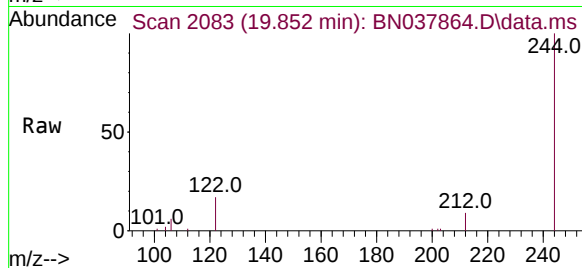




#31  
Terphenyl-d14  
Concen: 0.738 ng  
RT: 19.852 min Scan# 2083  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

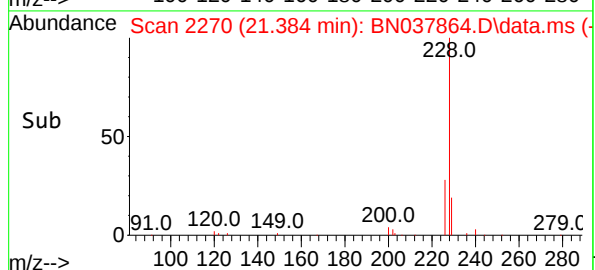
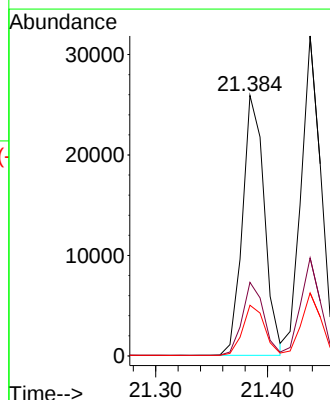
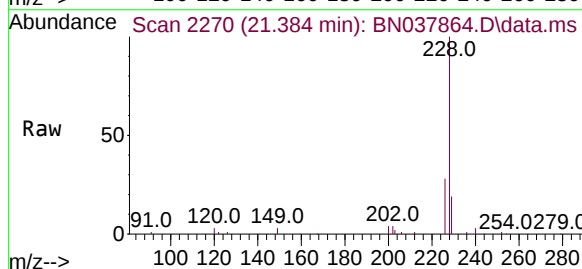
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

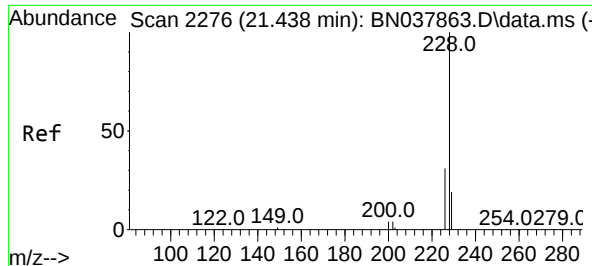
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 9.3   | 7.6   | 11.4  |
| 122     | 17.0  | 13.9  | 20.9  |



#32  
Benzo(a)anthracene  
Concen: 0.735 ng  
RT: 21.384 min Scan# 2270  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.3  | 22.6  | 33.8  |
| 229     | 19.5  | 15.6  | 23.4  |

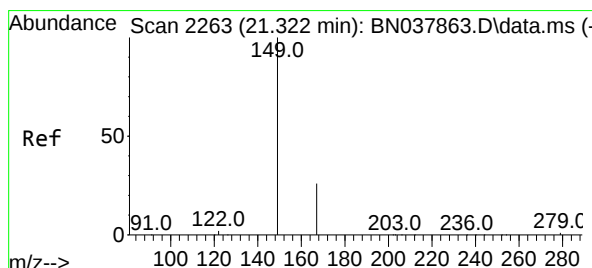
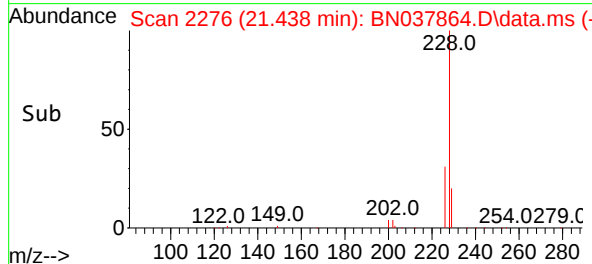
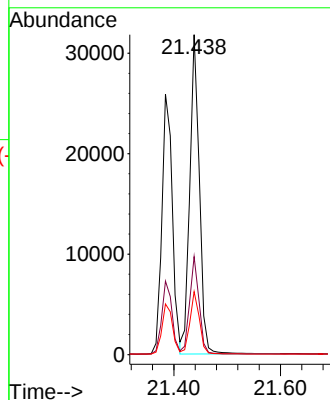
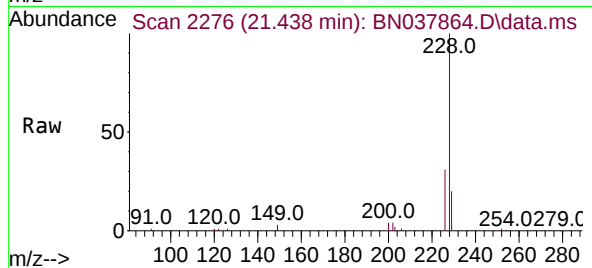




#33  
Chrysene  
Concen: 0.765 ng  
RT: 21.438 min Scan# 21  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

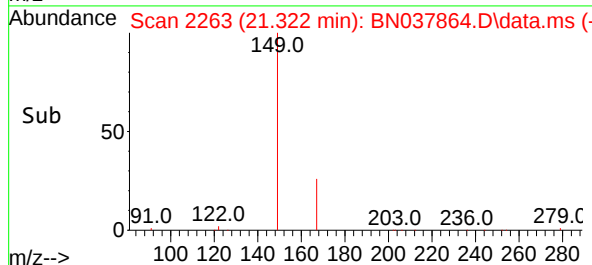
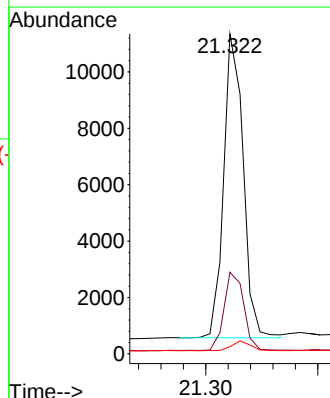
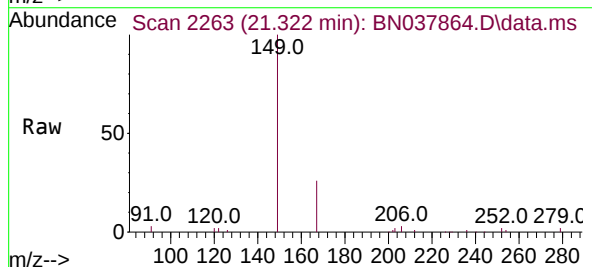
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

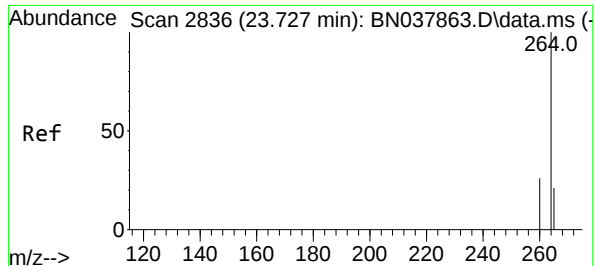
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 30.6  | 24.6  | 37.0  |
| 229     | 19.7  | 15.6  | 23.4  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.689 ng  
RT: 21.322 min Scan# 2263  
Delta R.T. -0.000 min  
Lab File: BN037864.D  
Acq: 23 Sep 2025 14:02

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.1  | 20.4  | 30.6  |
| 279     | 3.2   | 2.4   | 3.6   |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.730 min Scan# 2837

Delta R.T. 0.003 min

Lab File: BN037864.D

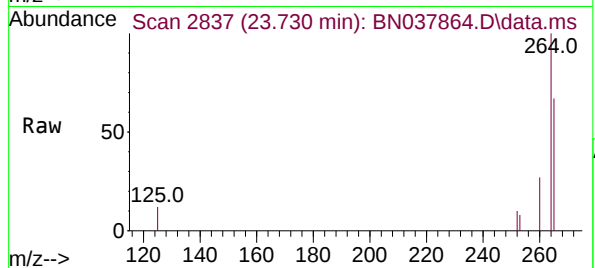
Acq: 23 Sep 2025 14:02

Instrument :

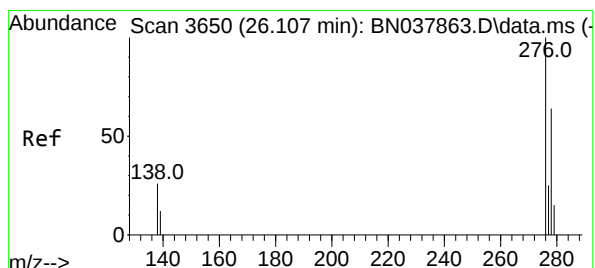
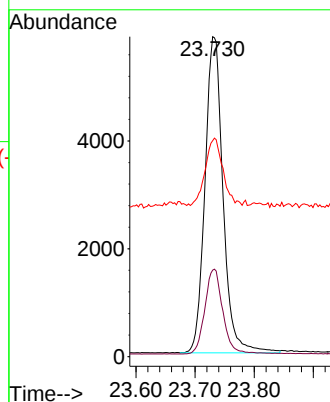
BNA\_N

ClientSampleId :

SSTDIC0.8



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 264   | Resp: | 12464 |
| Ion Ratio | Lower | Upper |       |
| 264       | 100   |       |       |
| 260       | 27.0  | 21.5  | 32.3  |
| 265       | 67.5  | 53.8  | 80.6  |



#36

Indeno(1,2,3-cd)pyrene

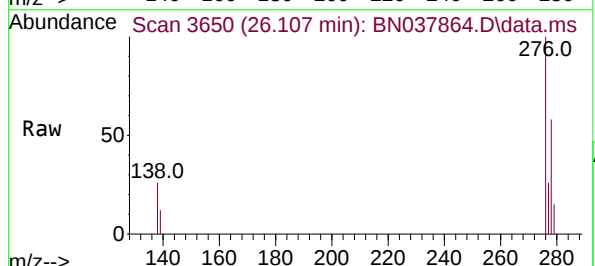
Concen: 0.747 ng

RT: 26.107 min Scan# 3650

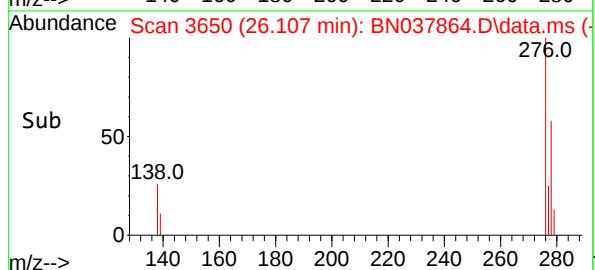
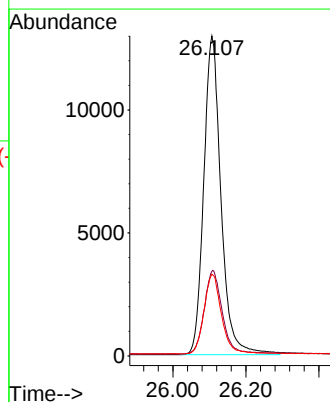
Delta R.T. -0.000 min

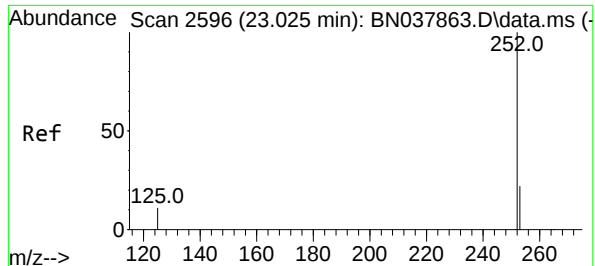
Lab File: BN037864.D

Acq: 23 Sep 2025 14:02



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 276   | Resp: | 42560 |
| Ion Ratio | Lower | Upper |       |
| 276       | 100   |       |       |
| 138       | 26.8  | 21.4  | 32.0  |
| 277       | 25.3  | 20.3  | 30.5  |





#37

Benzo(b)fluoranthene

Concen: 0.738 ng

RT: 23.025 min Scan# 2596

Delta R.T. -0.000 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

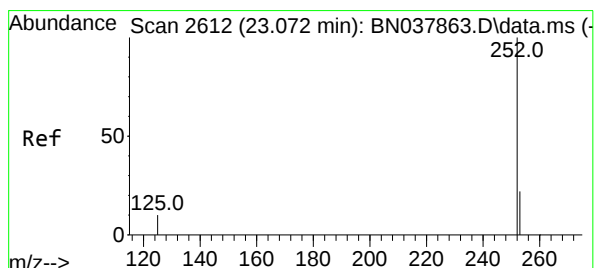
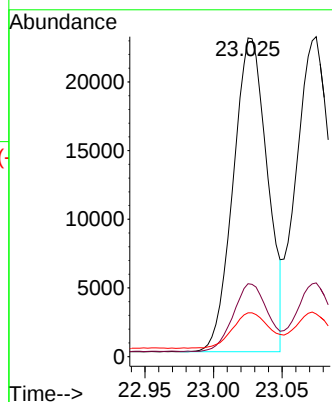
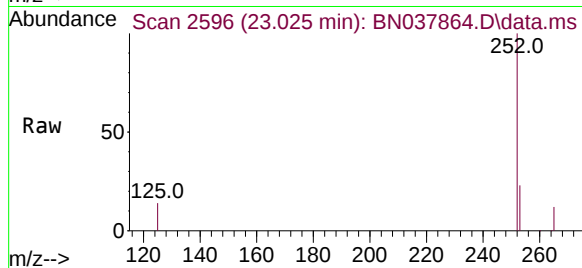
Tgt Ion:252 Resp: 39646

Ion Ratio Lower Upper

252 100

253 22.9 19.4 29.0

125 13.7 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.750 ng

RT: 23.075 min Scan# 2613

Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

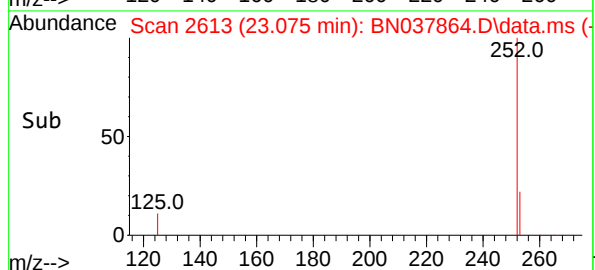
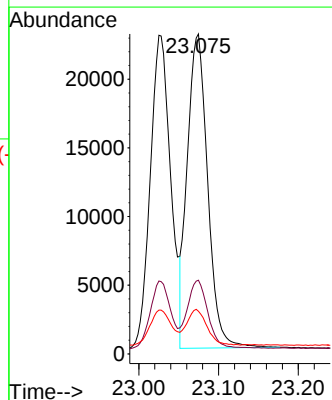
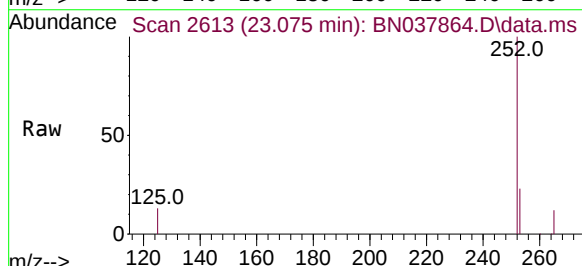
Tgt Ion:252 Resp: 40574

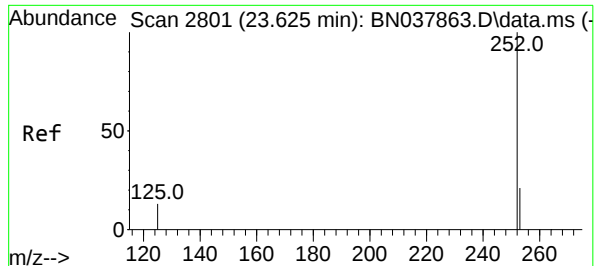
Ion Ratio Lower Upper

252 100

253 23.0 19.5 29.3

125 13.3 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.735 ng

RT: 23.627 min Scan# 2801

Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

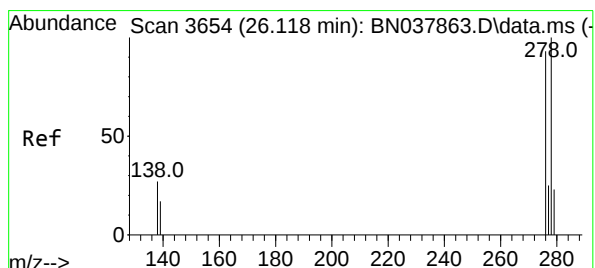
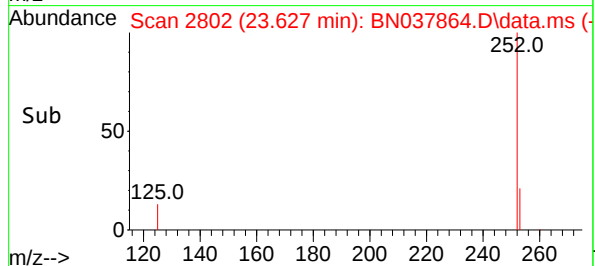
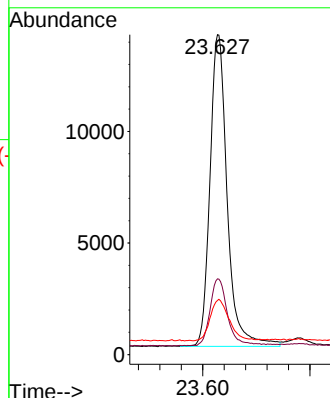
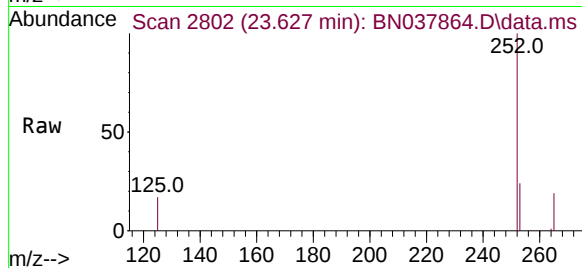
Tgt Ion:252 Resp: 31265

Ion Ratio Lower Upper

252 100

253 23.7 20.6 30.8

125 16.9 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.747 ng

RT: 26.121 min Scan# 3655

Delta R.T. 0.003 min

Lab File: BN037864.D

Acq: 23 Sep 2025 14:02

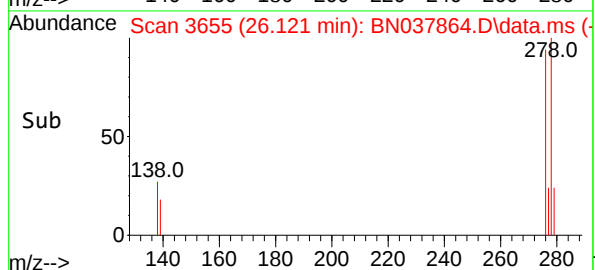
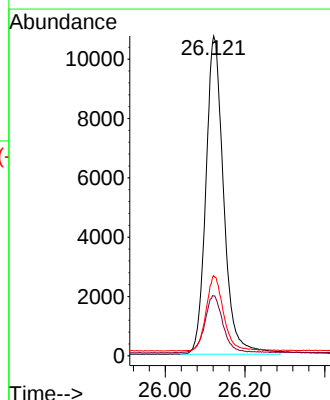
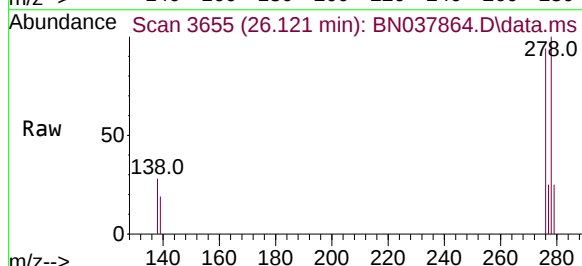
Tgt Ion:278 Resp: 33235

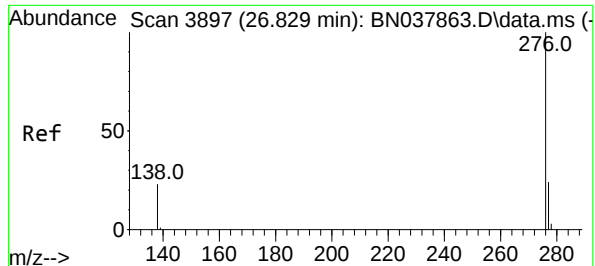
Ion Ratio Lower Upper

278 100

139 18.7 15.4 23.2

279 25.1 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.745 ng

RT: 26.835 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN037864.D

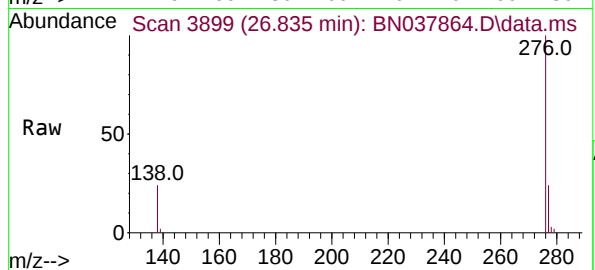
Acq: 23 Sep 2025 14:02

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



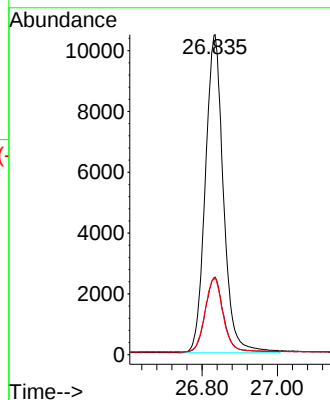
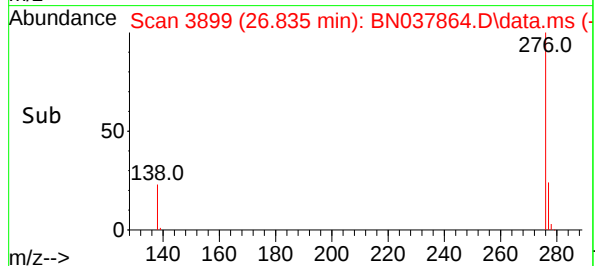
Tgt Ion:276 Resp: 34817

Ion Ratio Lower Upper

276 100

277 24.2 20.2 30.4

138 23.9 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
 Data File : BN037865.D  
 Acq On : 23 Sep 2025 14:38  
 Operator : RC/JU  
 Sample : SSTDICC1.6  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

Quant Time: Sep 23 16:22:44 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:17:53 2025  
 Response via : Initial Calibration

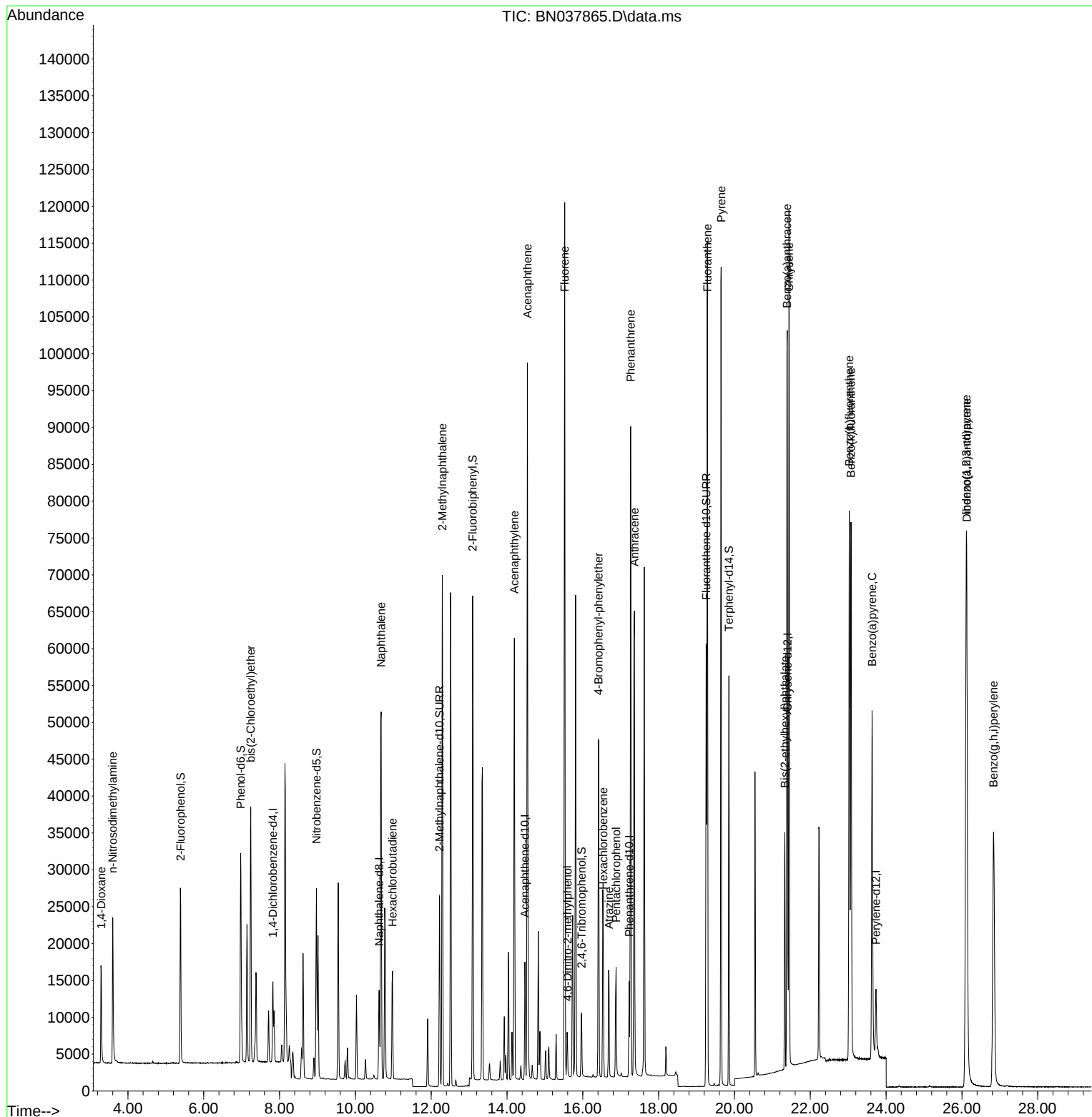
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.825  | 152  | 5367     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.626 | 136  | 15494    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.473 | 164  | 8404     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.223 | 188  | 15875    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.402 | 240  | 14963    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.735 | 264  | 12917    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.391  | 112  | 19493    | 1.592 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.973  | 99   | 26005    | 1.616 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.971  | 82   | 19230    | 1.627 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.217 | 152  | 34256    | 1.592 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.969 | 330  | 5471     | 1.613 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.094 | 172  | 55598    | 1.616 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.252 | 212  | 63771    | 1.597 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.852 | 244  | 47765    | 1.603 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.297  | 88   | 9123     | 1.674 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.600  | 42   | 12048    | 1.662 | ng    | # 89     |
| 6) bis(2-Chloroethyl)ether    | 7.240  | 93   | 24687    | 1.653 | ng    | 100      |
| 9) Naphthalene                | 10.679 | 128  | 69620    | 1.631 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.978 | 225  | 11899    | 1.634 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.293 | 142  | 46704    | 1.675 | ng    | 99       |
| 16) Acenaphthylene            | 14.195 | 152  | 64093    | 1.680 | ng    | 100      |
| 17) Acenaphthene              | 14.537 | 154  | 45411    | 1.670 | ng    | 97       |
| 18) Fluorene                  | 15.522 | 166  | 55922    | 1.701 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198  | 3669     | 1.602 | ng    | # 64     |
| 21) 4-Bromophenyl-phenylether | 16.416 | 248  | 17278    | 1.670 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.540 | 284  | 20548    | 1.638 | ng    | 99       |
| 23) Atrazine                  | 16.689 | 200  | 13043    | 1.656 | ng    | 97       |
| 24) Pentachlorophenol         | 16.875 | 266  | 7393     | 1.718 | ng    | 98       |
| 25) Phenanthrene              | 17.260 | 178  | 86207    | 1.650 | ng    | 99       |
| 26) Anthracene                | 17.359 | 178  | 76744    | 1.693 | ng    | 100      |
| 28) Fluoranthene              | 19.285 | 202  | 98772    | 1.717 | ng    | 99       |
| 30) Pyrene                    | 19.647 | 202  | 96189    | 1.628 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.384 | 228  | 85145    | 1.628 | ng    | 99       |
| 33) Chrysene                  | 21.438 | 228  | 93309    | 1.650 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.330 | 149  | 31032    | 1.500 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.112 | 276  | 97476    | 1.652 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 23.028 | 252  | 93525    | 1.679 | ng    | # 94     |
| 38) Benzo(k)fluoranthene      | 23.075 | 252  | 96868    | 1.728 | ng    | # 94     |
| 39) Benzo(a)pyrene            | 23.630 | 252  | 73009    | 1.657 | ng    | # 90     |
| 40) Dibenzo(a,h)anthracene    | 26.127 | 278  | 77237    | 1.676 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 26.835 | 276  | 78576    | 1.623 | ng    | 98       |

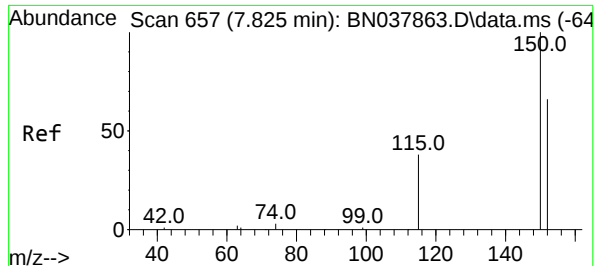
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
Data File : BN037865.D  
Acq On : 23 Sep 2025 14:38  
Operator : RC/JU  
Sample : SSTDICC1.6  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Quant Time: Sep 23 16:22:44 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 16:17:53 2025  
Response via : Initial Calibration

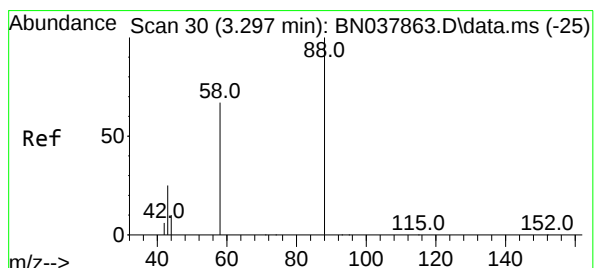
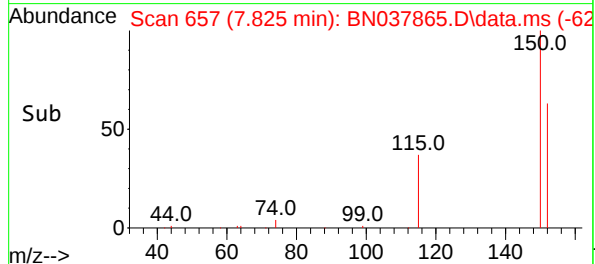
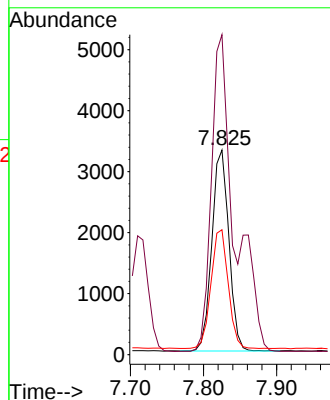
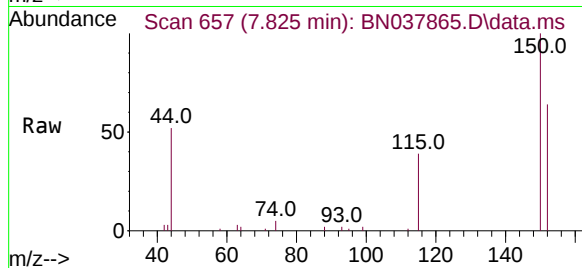




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.825 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

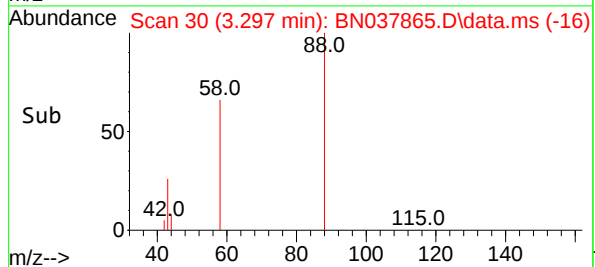
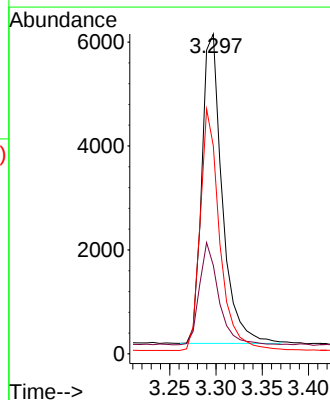
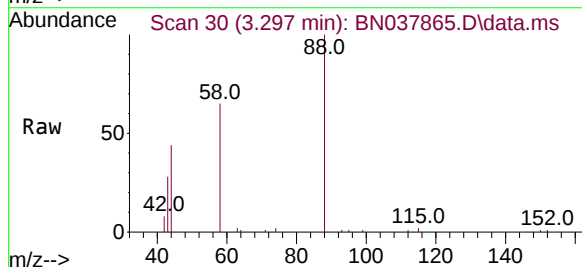
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

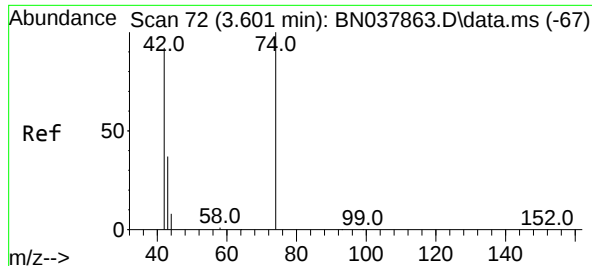
Tgt Ion:152 Resp: 5367  
Ion Ratio Lower Upper  
152 100  
150 156.4 121.0 181.4  
115 61.0 47.4 71.0



#2  
1,4-Dioxane  
Concen: 1.674 ng  
RT: 3.297 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

Tgt Ion: 88 Resp: 9123  
Ion Ratio Lower Upper  
88 100  
43 31.3 26.6 39.8  
58 74.6 58.9 88.3

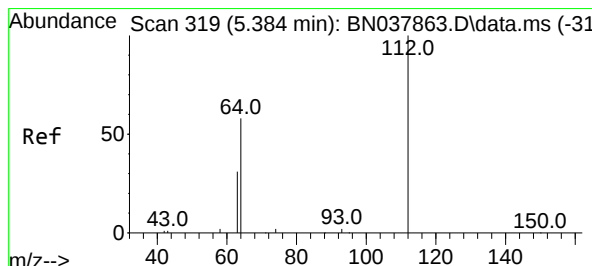
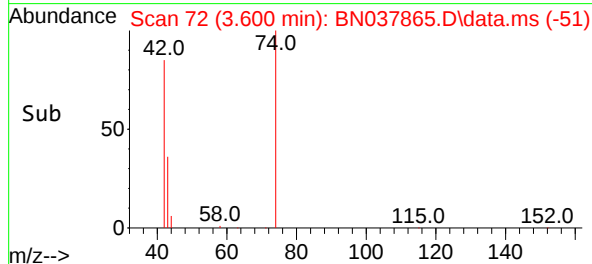
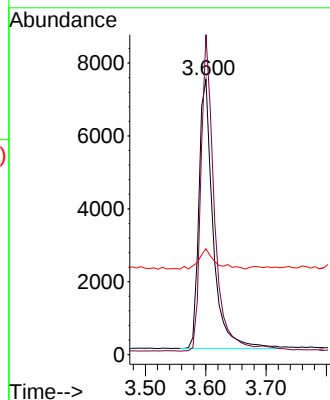
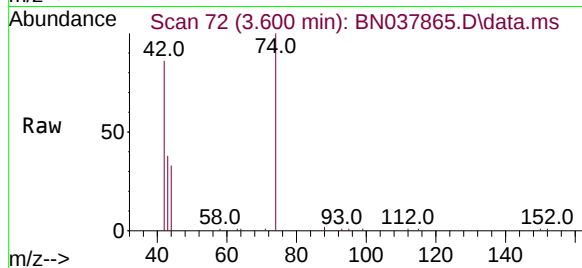




#3  
n-Nitrosodimethylamine  
Concen: 1.662 ng  
RT: 3.600 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

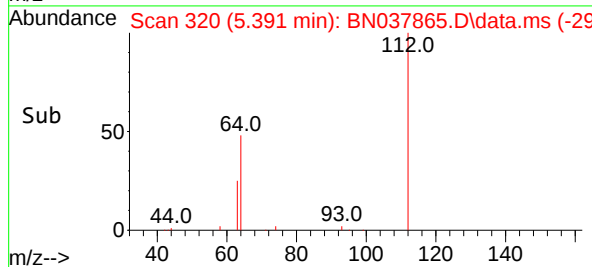
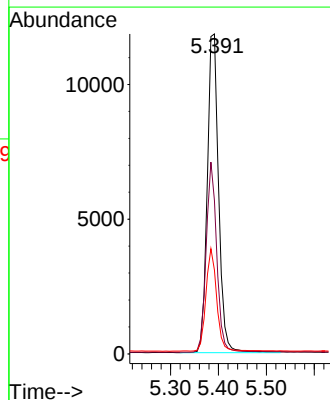
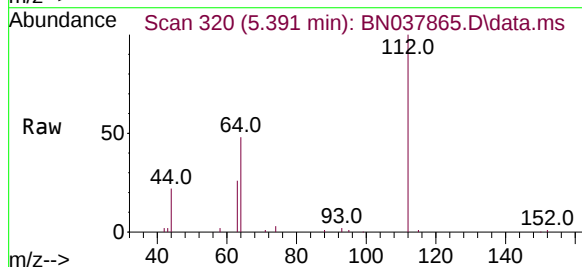
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

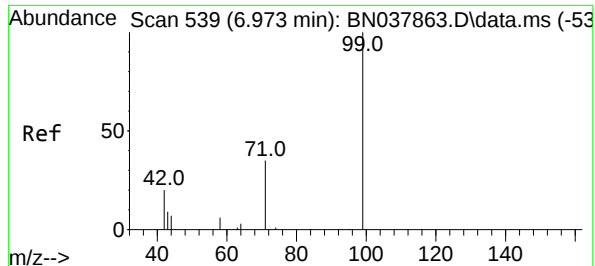
| Tgt Ion: | 42    | Resp: | 12048 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 42       | 100   |       |       |
| 74       | 110.9 | 93.4  | 140.0 |
| 44       | 8.4   | 22.2  | 33.4  |



#4  
2-Fluorophenol  
Concen: 1.592 ng  
RT: 5.391 min Scan# 320  
Delta R.T. 0.007 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

| Tgt Ion: | 112   | Resp: | 19493 |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 112      | 100   |       |       |
| 64       | 55.9  | 44.6  | 66.8  |
| 63       | 30.3  | 24.9  | 37.3  |

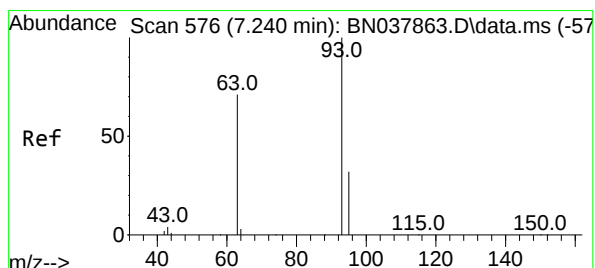
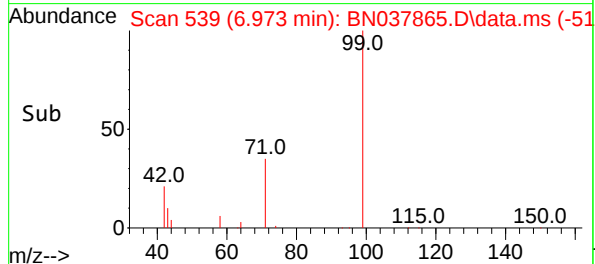
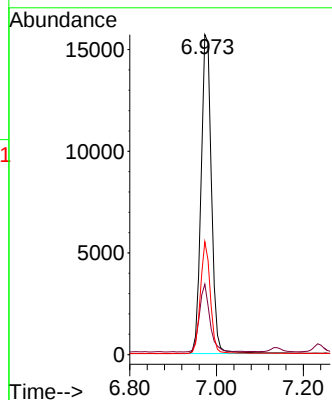
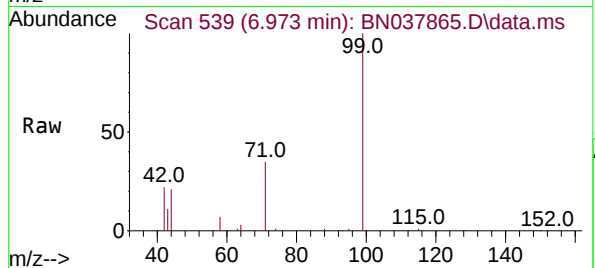




#5  
Phenol-d6  
Concen: 1.616 ng  
RT: 6.973 min Scan# 539  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

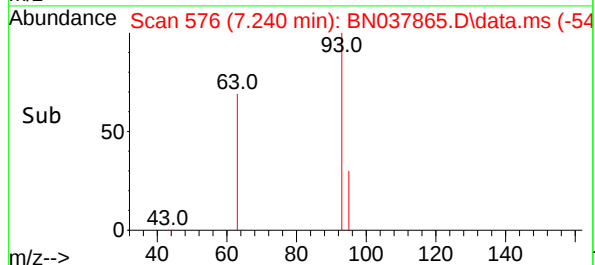
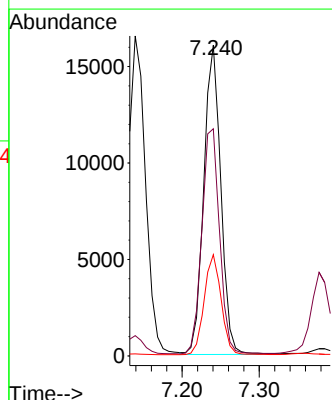
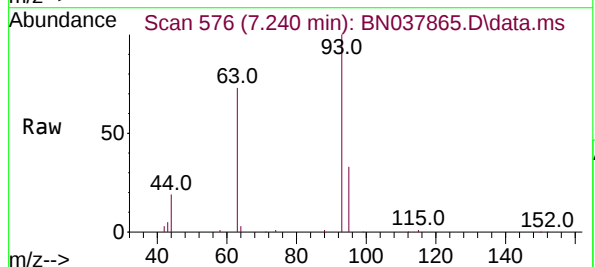
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

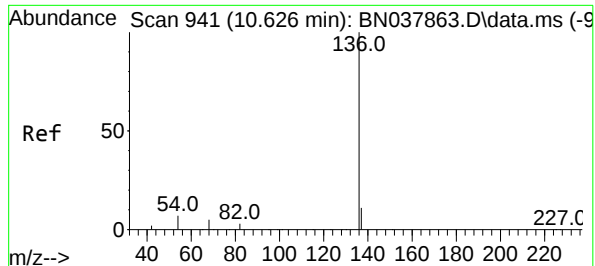
Tgt Ion: 99 Resp: 26005  
Ion Ratio Lower Upper  
99 100  
42 21.3 17.2 25.8  
71 33.5 27.3 40.9



#6  
bis(2-Chloroethyl)ether  
Concen: 1.653 ng  
RT: 7.240 min Scan# 576  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

Tgt Ion: 93 Resp: 24687  
Ion Ratio Lower Upper  
93 100  
63 75.4 60.1 90.1  
95 32.1 25.4 38.2

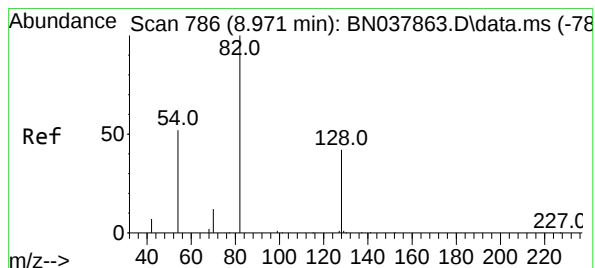
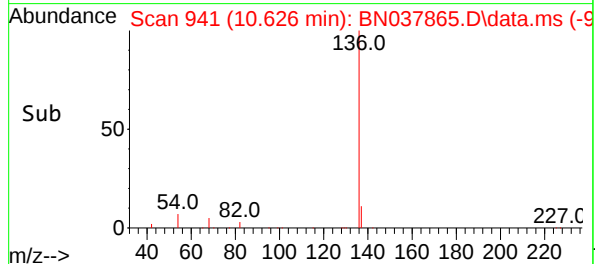
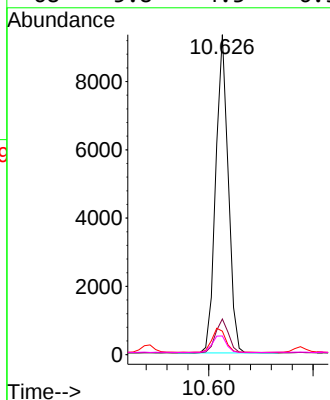
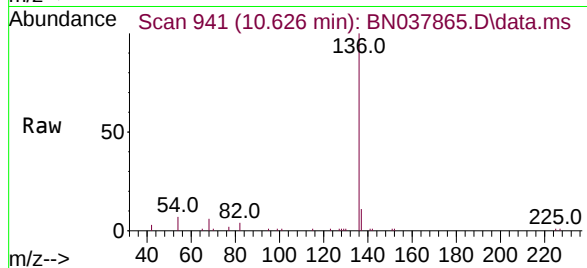




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.626 min Scan# 941  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

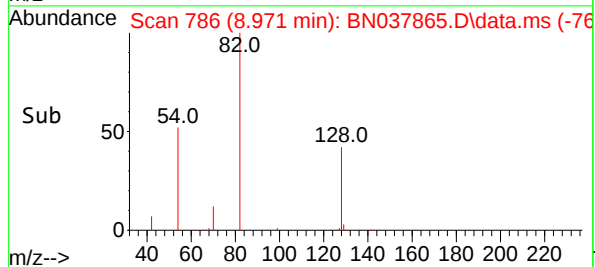
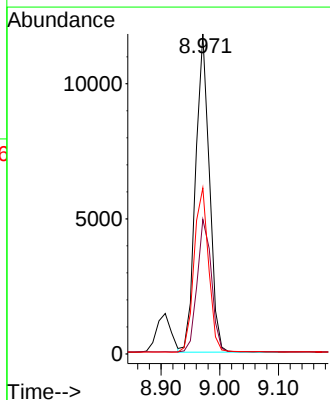
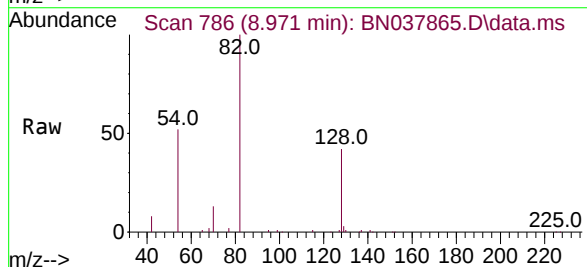
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

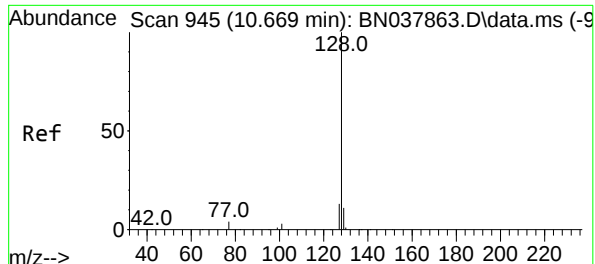
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:136 | Resp: | 15494       |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 11.1  | 9.0 13.4    |
| 54          | 7.3   | 5.8 8.8     |
| 68          | 5.8   | 4.3 6.5     |



#8  
Nitrobenzene-d5  
Concen: 1.627 ng  
RT: 8.971 min Scan# 786  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 19230       |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 42.0  | 34.8 52.2   |
| 54          | 51.9  | 42.2 63.2   |

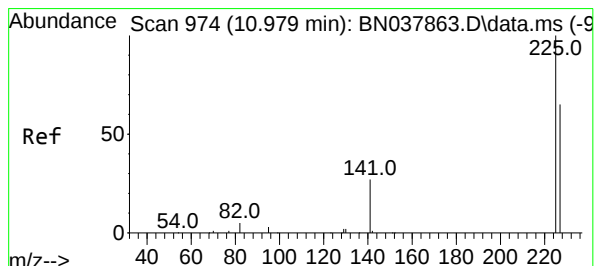
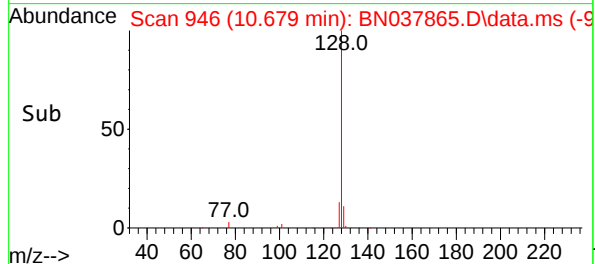
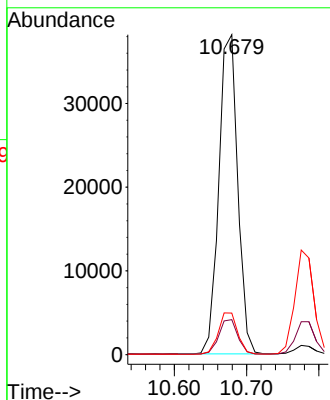
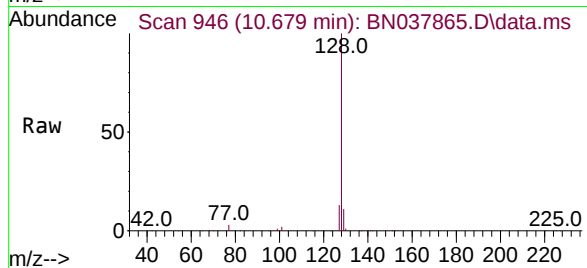




#9  
Naphthalene  
Concen: 1.631 ng  
RT: 10.679 min Scan# 945  
Delta R.T. 0.010 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

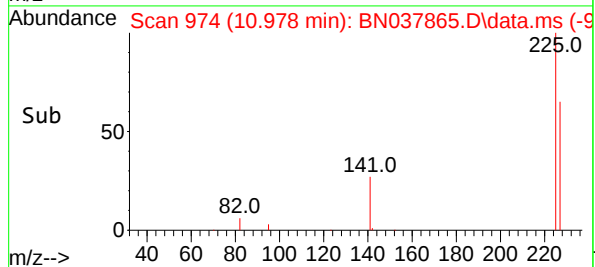
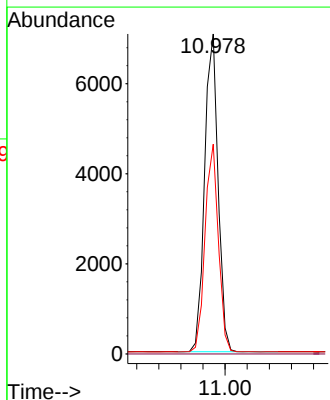
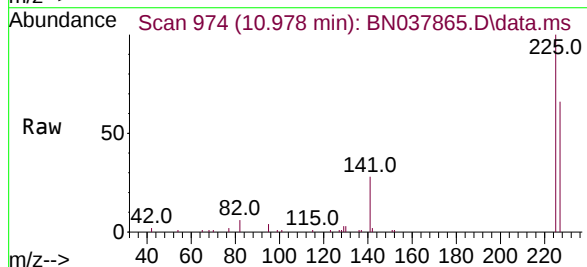
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

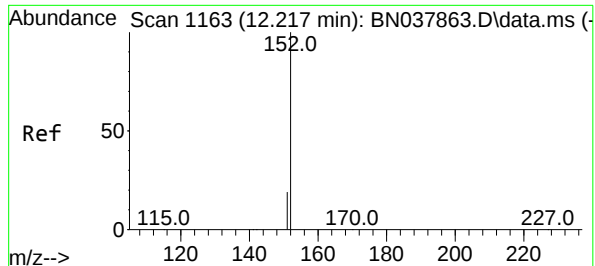
Tgt Ion:128 Resp: 69620  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.2 13.8  
127 13.0 11.0 16.6



#10  
Hexachlorobutadiene  
Concen: 1.634 ng  
RT: 10.978 min Scan# 974  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

Tgt Ion:225 Resp: 11899  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.6 51.4 77.2

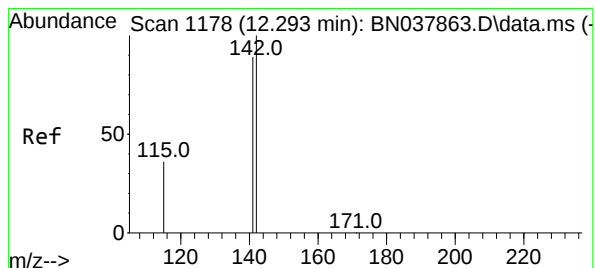
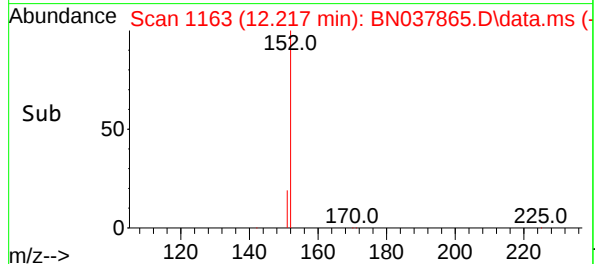
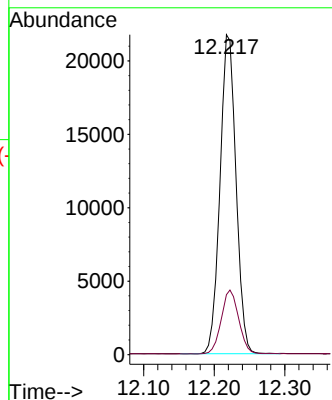
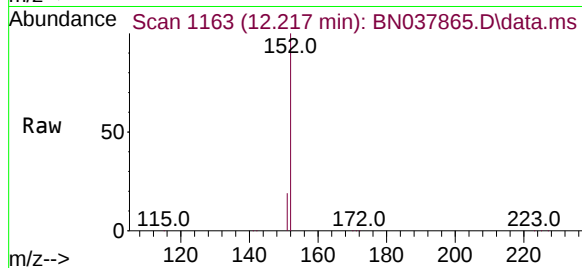




#11  
2-Methylnaphthalene-d10  
Concen: 1.592 ng  
RT: 12.217 min Scan# 1163  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

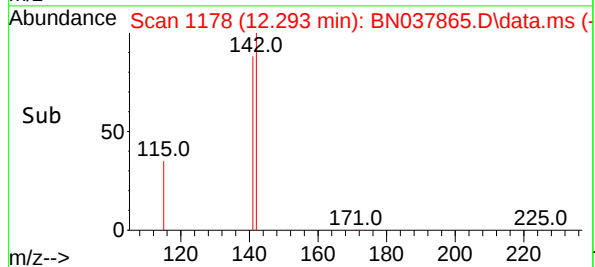
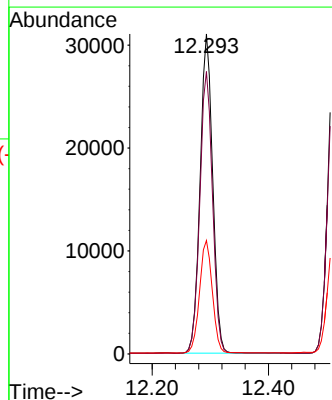
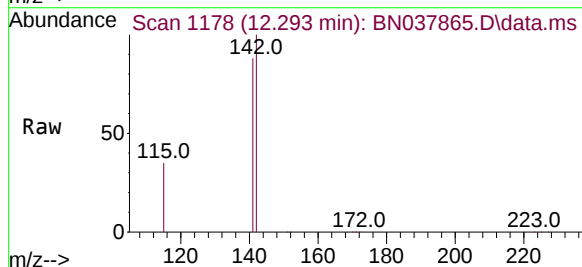
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

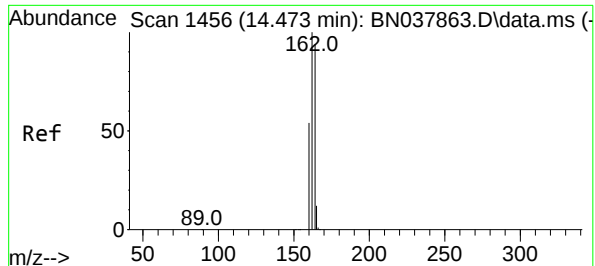
Tgt Ion:152 Resp: 34256  
Ion Ratio Lower Upper  
152 100  
151 21.7 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 1.675 ng  
RT: 12.293 min Scan# 1178  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

Tgt Ion:142 Resp: 46704  
Ion Ratio Lower Upper  
142 100  
141 88.2 71.2 106.8  
115 35.4 29.7 44.5





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.473 min Scan# 1456

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

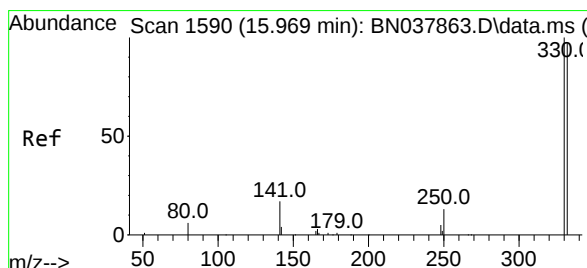
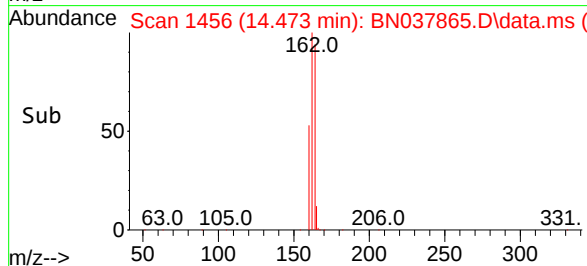
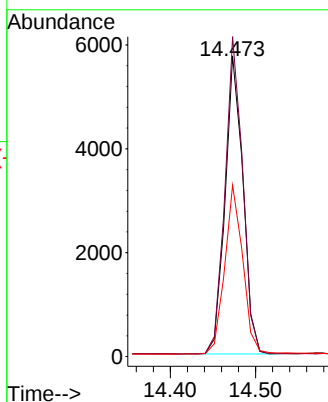
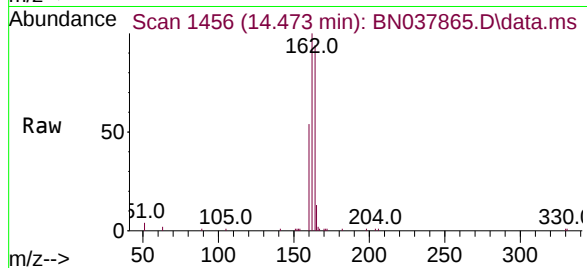
Tgt Ion:164 Resp: 8404

Ion Ratio Lower Upper

164 100

162 106.4 84.8 127.2

160 57.0 46.1 69.1



#14

2,4,6-Tribromophenol

Concen: 1.613 ng

RT: 15.969 min Scan# 1590

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

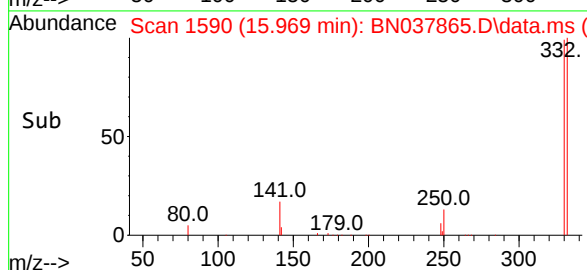
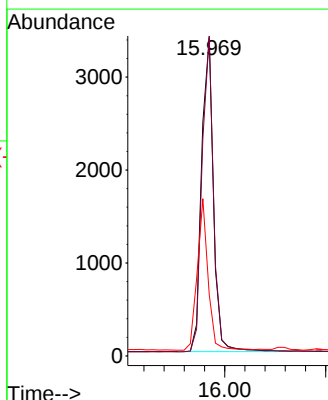
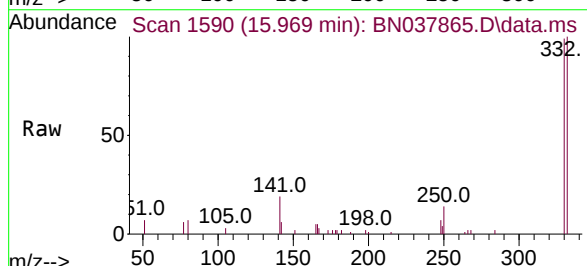
Tgt Ion:330 Resp: 5471

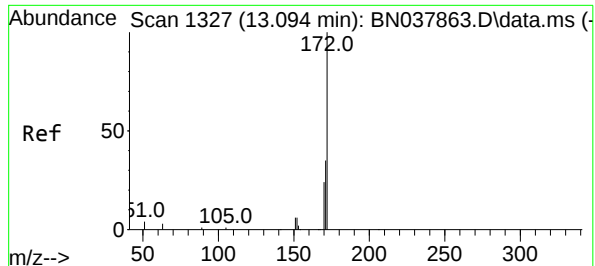
Ion Ratio Lower Upper

330 100

332 98.1 77.2 115.8

141 44.0 37.2 55.8





#15

2-Fluorobiphenyl

Concen: 1.616 ng

RT: 13.094 min Scan# 1327

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

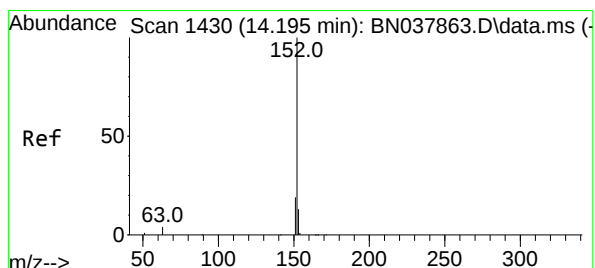
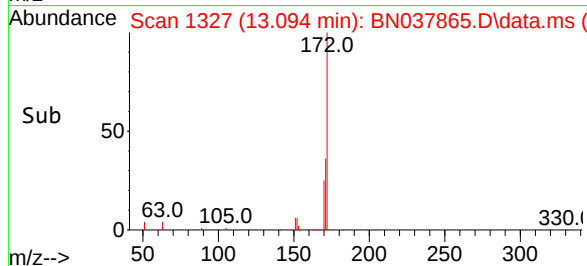
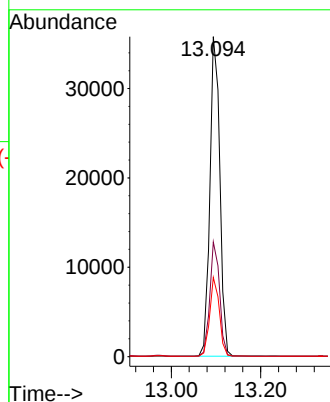
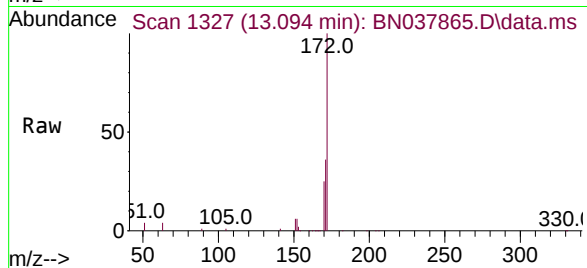
Tgt Ion:172 Resp: 55598

Ion Ratio Lower Upper

172 100

171 35.8 28.6 43.0

170 24.7 19.7 29.5



#16

Acenaphthylene

Concen: 1.680 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

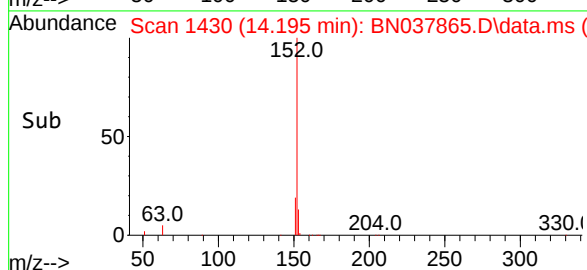
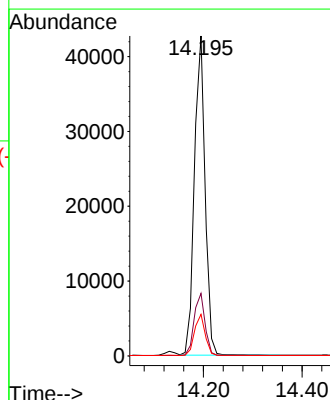
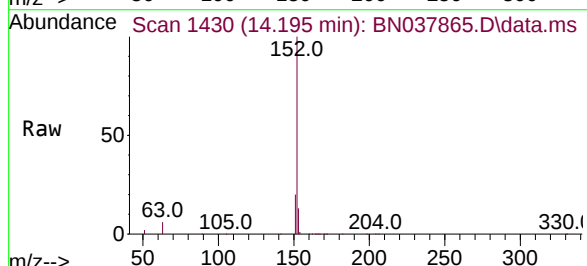
Tgt Ion:152 Resp: 64093

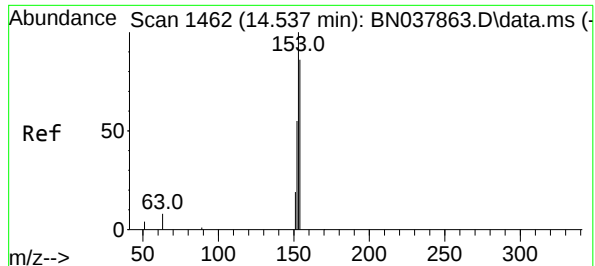
Ion Ratio Lower Upper

152 100

151 19.9 15.8 23.8

153 12.9 10.5 15.7

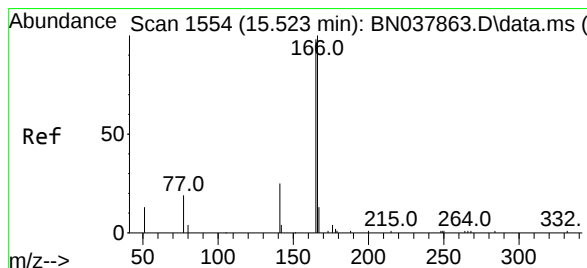
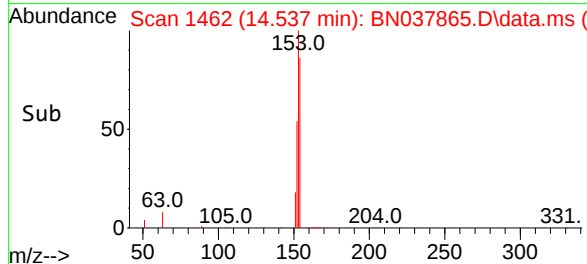
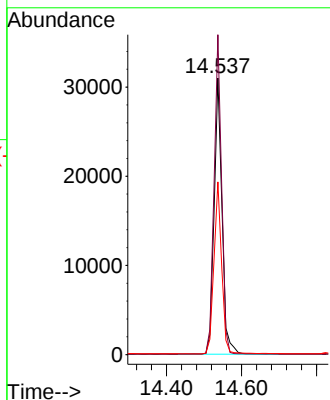
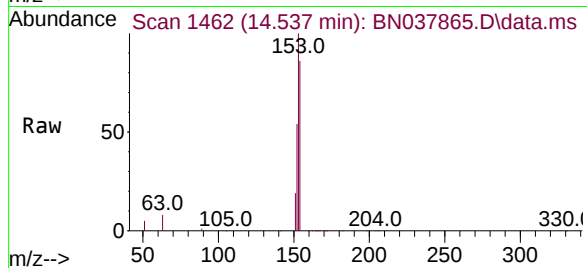




#17  
Acenaphthene  
Concen: 1.670 ng  
RT: 14.537 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

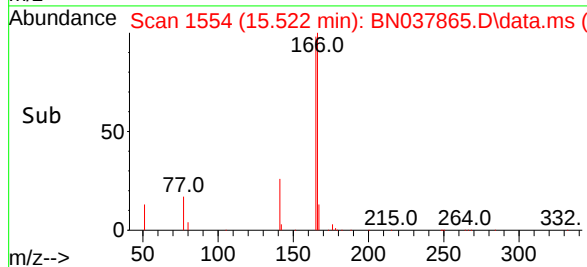
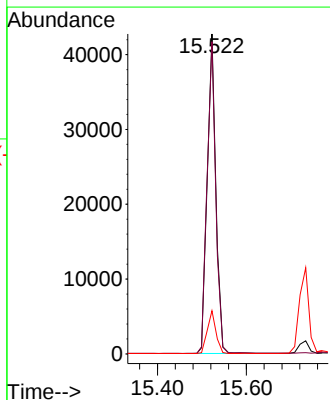
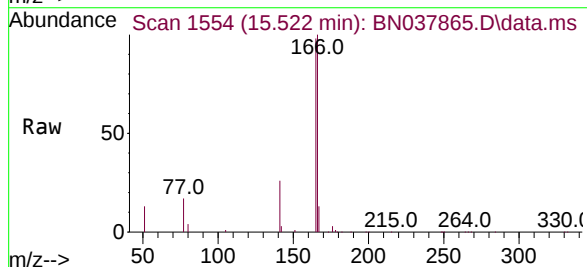
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

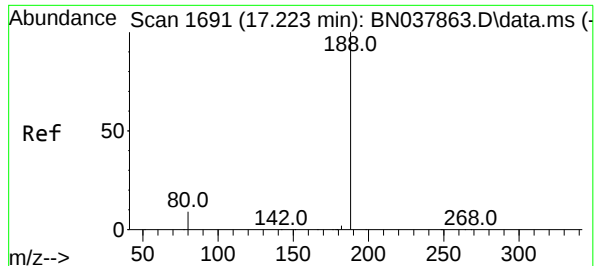
Tgt Ion:154 Resp: 45411  
Ion Ratio Lower Upper  
154 100  
153 110.4 90.5 135.7  
152 61.0 51.8 77.8



#18  
Fluorene  
Concen: 1.701 ng  
RT: 15.522 min Scan# 1554  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

Tgt Ion:166 Resp: 55922  
Ion Ratio Lower Upper  
166 100  
165 99.1 79.0 118.4  
167 13.1 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

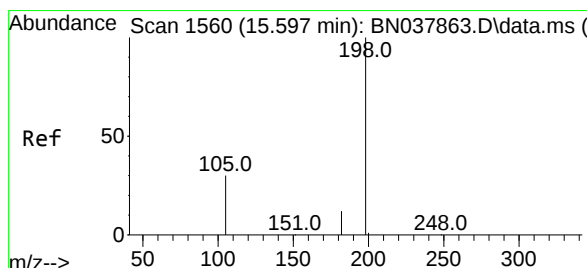
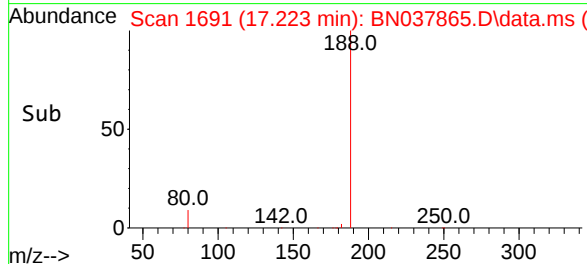
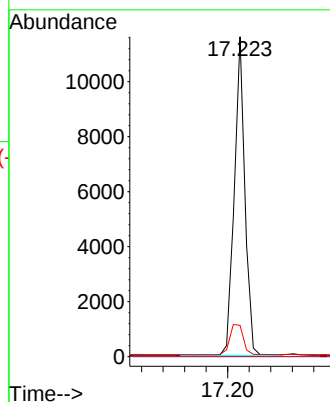
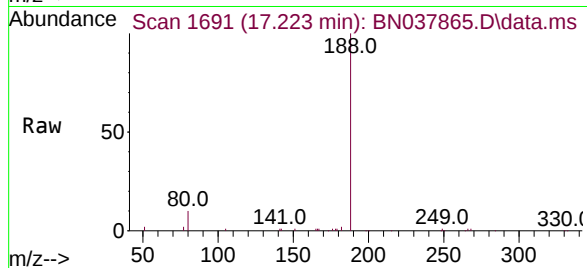
Tgt Ion:188 Resp: 15875

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 9.8 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 1.602 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

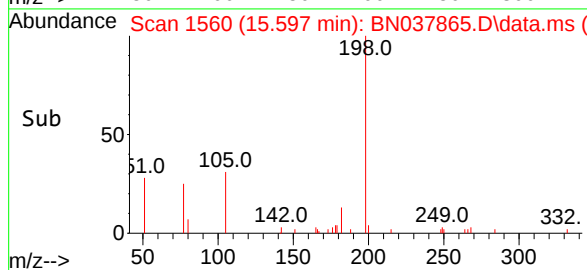
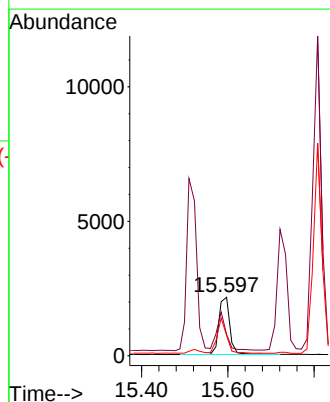
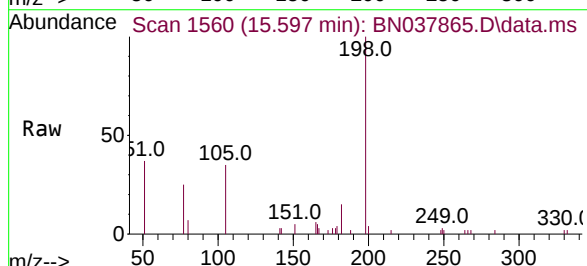
Tgt Ion:198 Resp: 3669

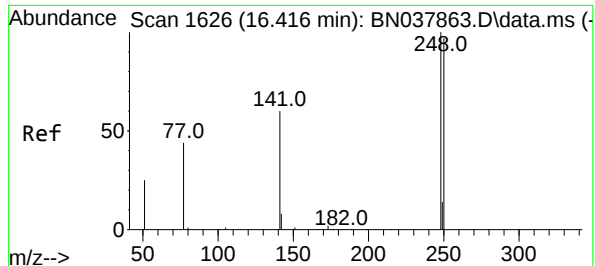
Ion Ratio Lower Upper

198 100

51 36.7 59.1 88.7#

105 34.9 41.3 61.9#

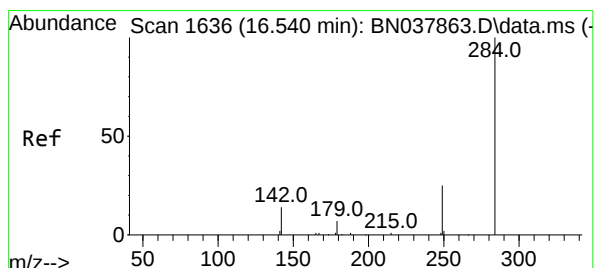
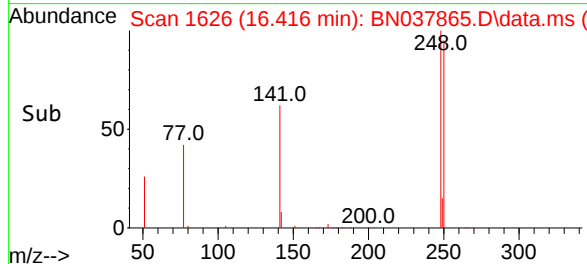
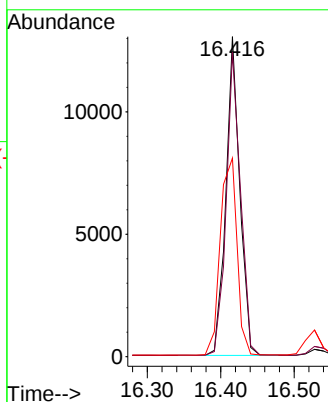
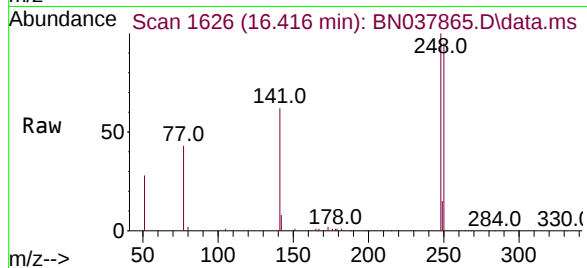




#21  
4-Bromophenyl-phenylether  
Concen: 1.670 ng  
RT: 16.416 min Scan# 1626  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

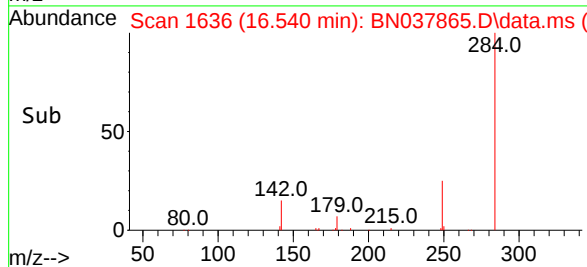
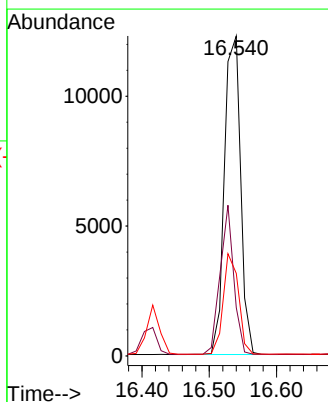
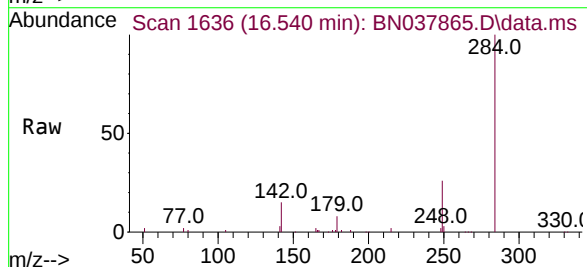
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

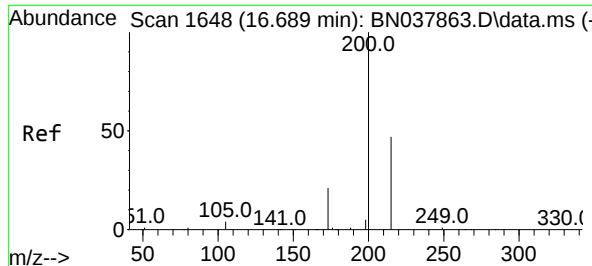
Tgt Ion:248 Resp: 17278  
Ion Ratio Lower Upper  
248 100  
250 95.0 77.6 116.4  
141 62.0 48.8 73.2



#22  
Hexachlorobenzene  
Concen: 1.638 ng  
RT: 16.540 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

Tgt Ion:284 Resp: 20548  
Ion Ratio Lower Upper  
284 100  
142 39.6 30.9 46.3  
249 29.9 23.9 35.9

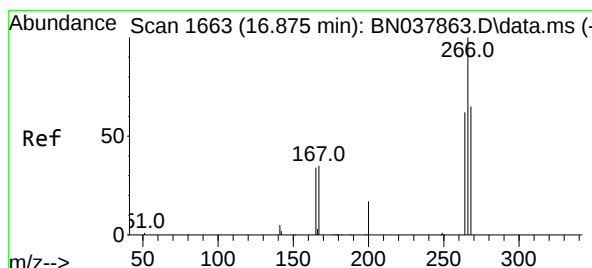
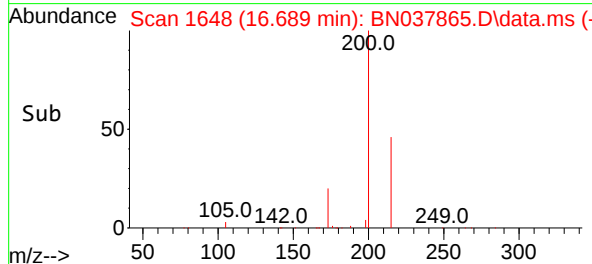
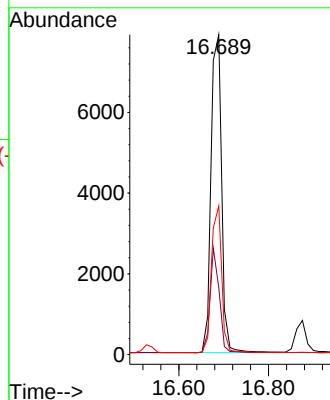
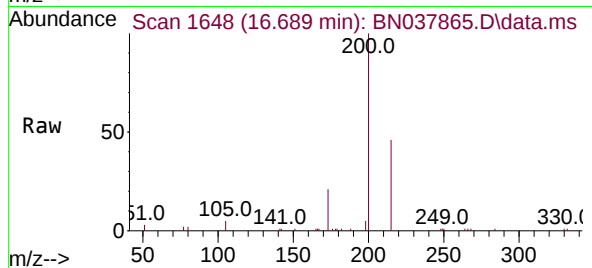




#23  
Atrazine  
Concen: 1.656 ng  
RT: 16.689 min Scan# 1648  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

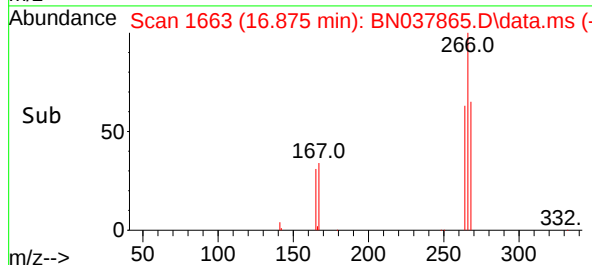
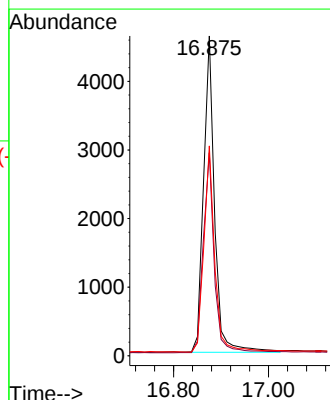
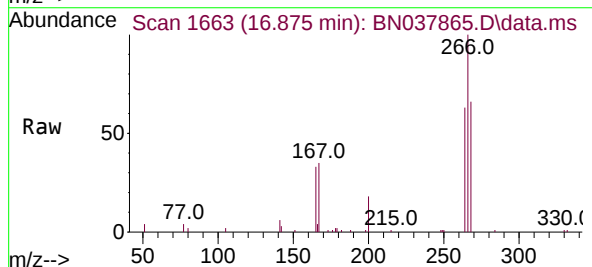
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

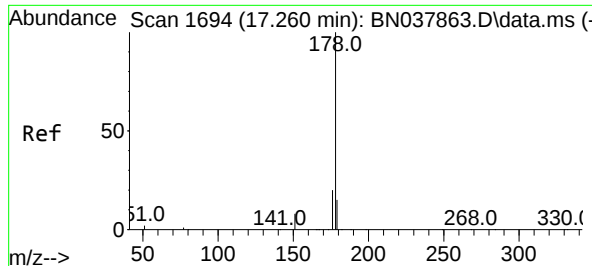
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 21.0  | 18.3  | 27.5  |
| 215     | 46.4  | 38.6  | 58.0  |



#24  
Pentachlorophenol  
Concen: 1.718 ng  
RT: 16.875 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 63.1  | 50.9  | 76.3  |
| 268     | 64.6  | 54.3  | 81.5  |





#25

Phenanthrene

Concen: 1.650 ng

RT: 17.260 min Scan# 1694

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

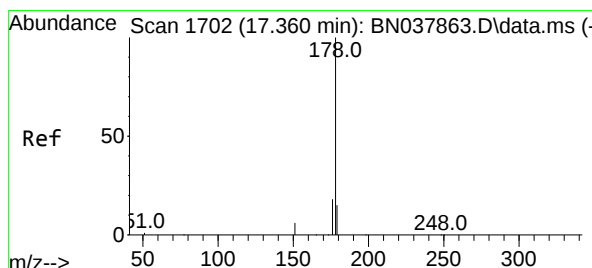
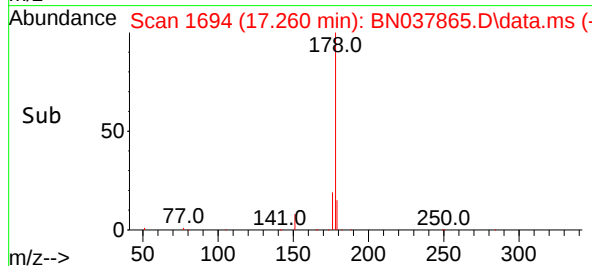
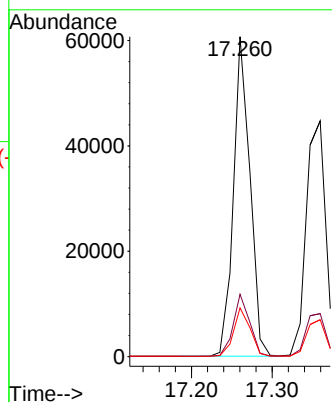
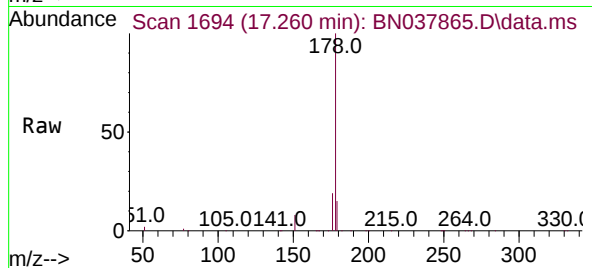
Tgt Ion:178 Resp: 86207

Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

179 15.3 12.3 18.5



#26

Anthracene

Concen: 1.693 ng

RT: 17.359 min Scan# 1702

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

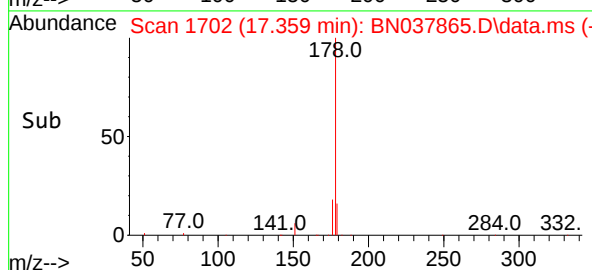
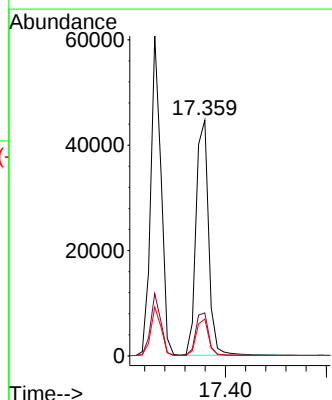
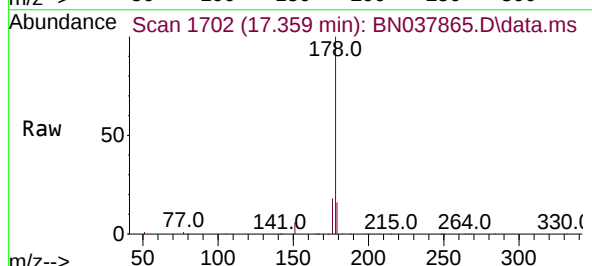
Tgt Ion:178 Resp: 76744

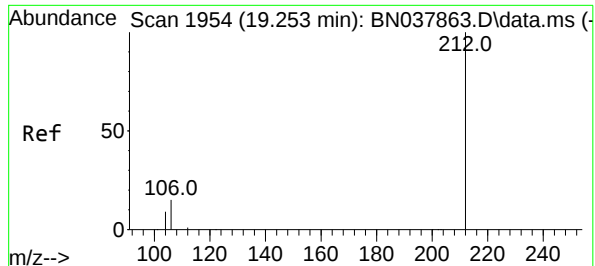
Ion Ratio Lower Upper

178 100

176 18.6 15.0 22.4

179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 1.597 ng

RT: 19.252 min Scan# 1954

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

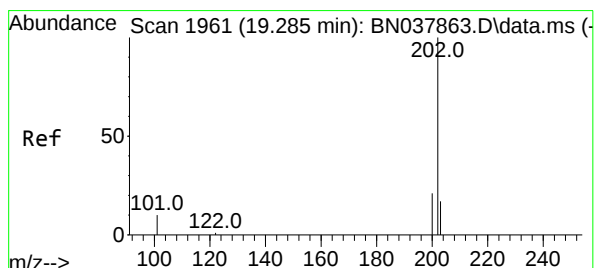
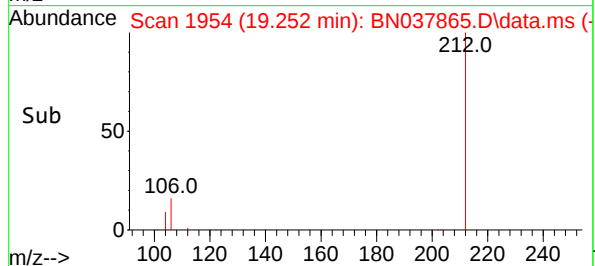
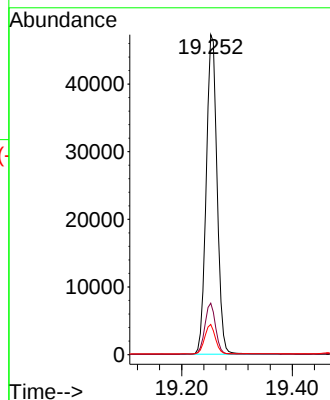
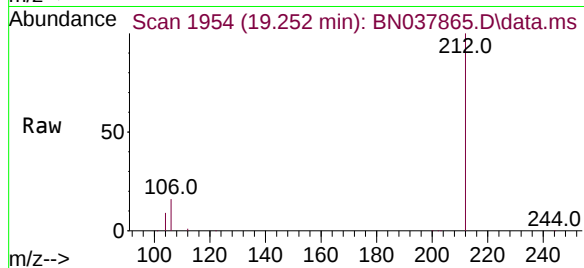
Tgt Ion:212 Resp: 63771

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 1.717 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

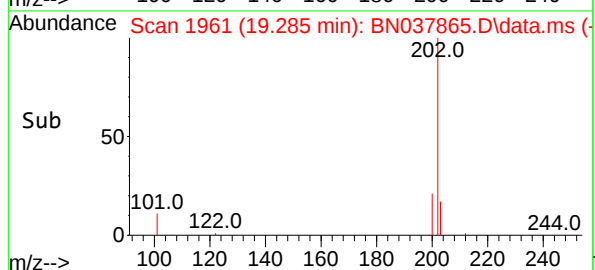
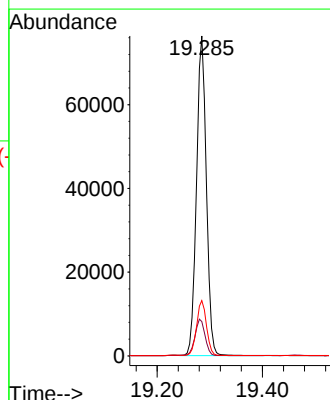
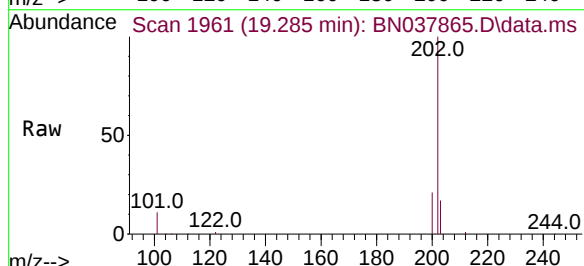
Tgt Ion:202 Resp: 98772

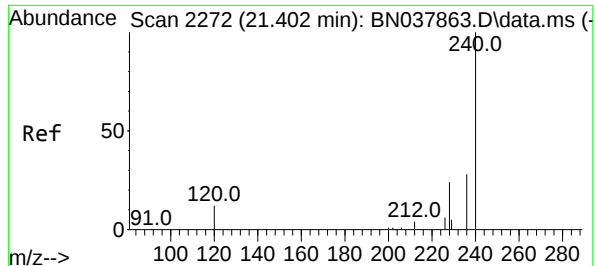
Ion Ratio Lower Upper

202 100

101 11.8 9.3 13.9

203 17.2 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

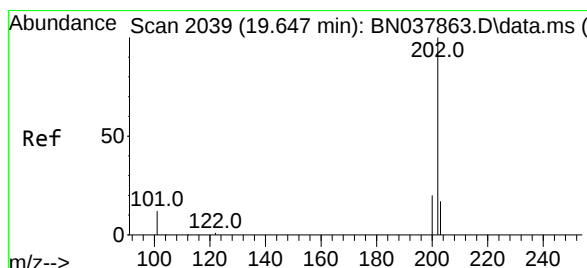
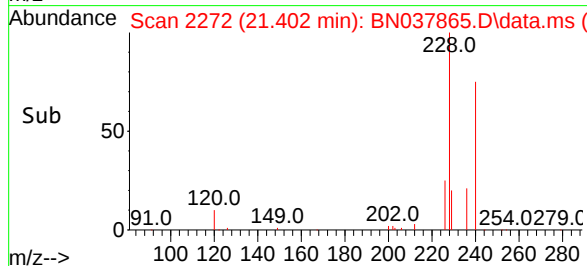
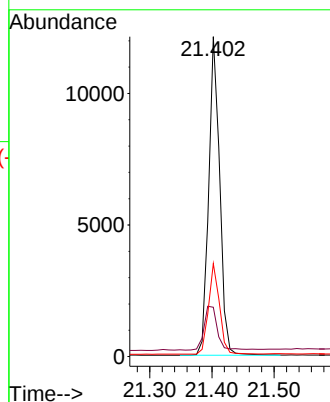
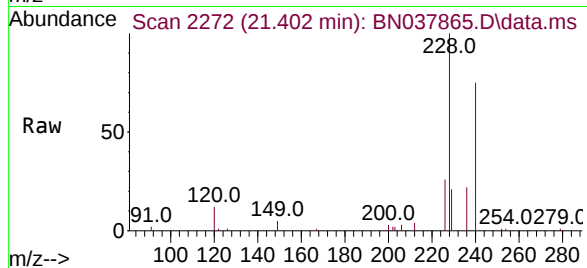
Tgt Ion:240 Resp: 14963

Ion Ratio Lower Upper

240 100

120 15.4 11.4 17.2

236 29.1 23.0 34.6



#30

Pyrene

Concen: 1.628 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

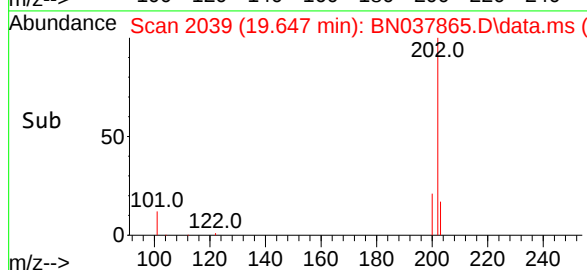
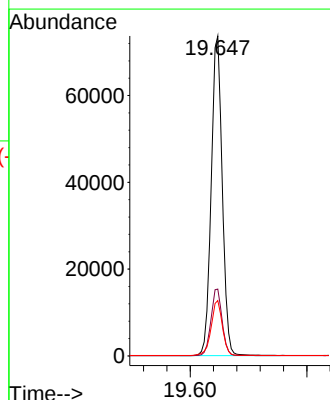
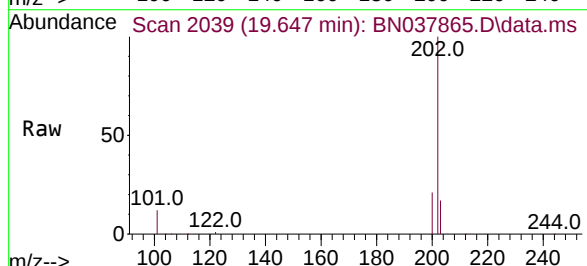
Tgt Ion:202 Resp: 96189

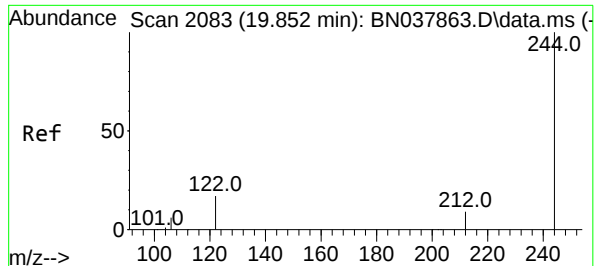
Ion Ratio Lower Upper

202 100

200 21.1 16.7 25.1

203 17.6 14.2 21.4

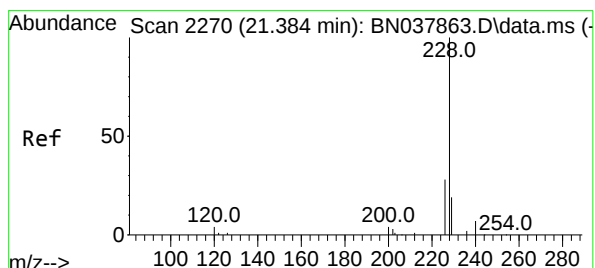
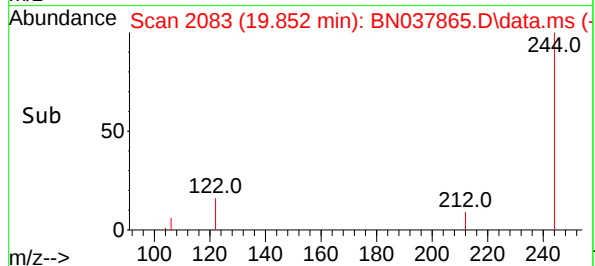
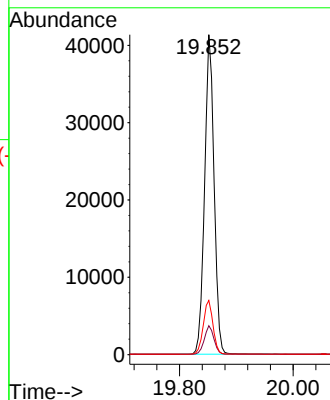
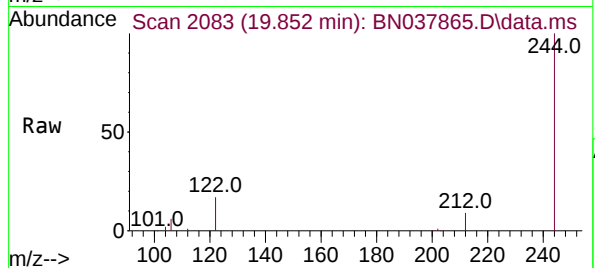




#31  
Terphenyl-d14  
Concen: 1.603 ng  
RT: 19.852 min Scan# 2083  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

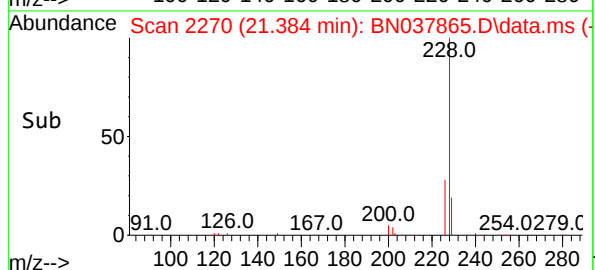
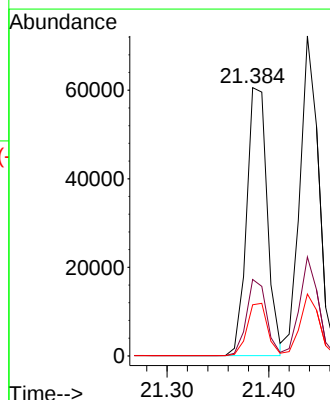
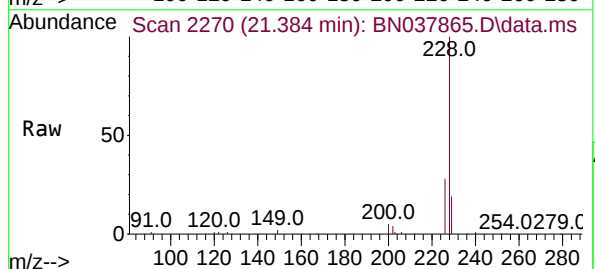
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

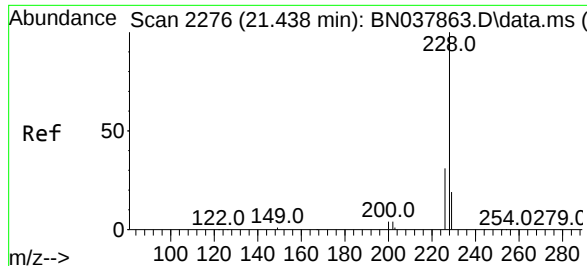
Tgt Ion:244 Resp: 47765  
Ion Ratio Lower Upper  
244 100  
212 9.0 7.6 11.4  
122 16.9 13.9 20.9



#32  
Benzo(a)anthracene  
Concen: 1.628 ng  
RT: 21.384 min Scan# 2270  
Delta R.T. -0.000 min  
Lab File: BN037865.D  
Acq: 23 Sep 2025 14:38

Tgt Ion:228 Resp: 85145  
Ion Ratio Lower Upper  
228 100  
226 28.5 22.6 33.8  
229 19.1 15.6 23.4





#33

Chrysene

Concen: 1.650 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

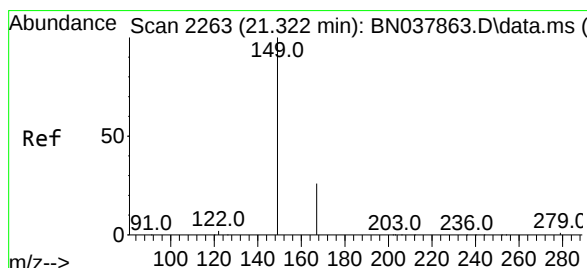
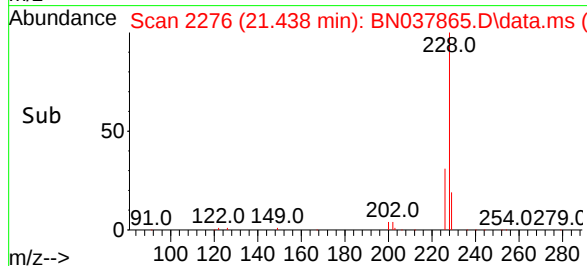
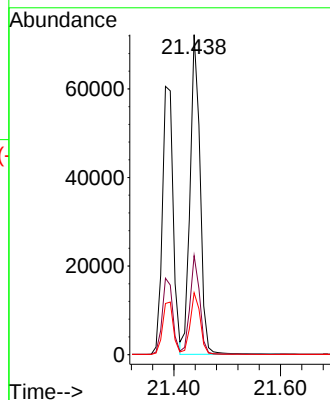
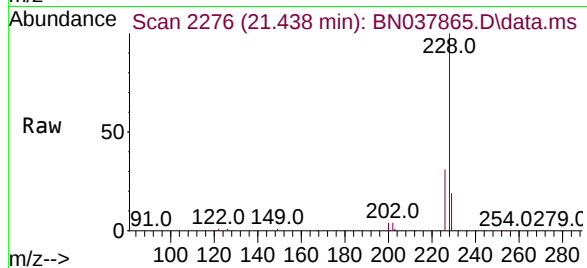
Tgt Ion:228 Resp: 93309

Ion Ratio Lower Upper

228 100

226 30.9 24.6 37.0

229 19.3 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.500 ng

RT: 21.330 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

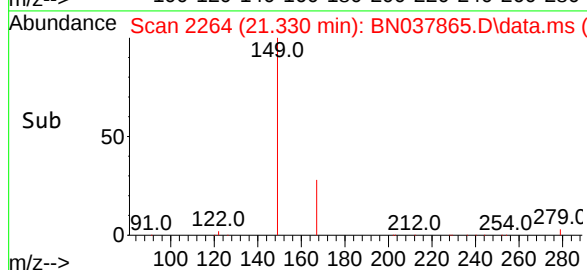
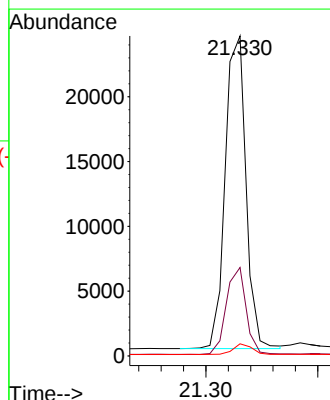
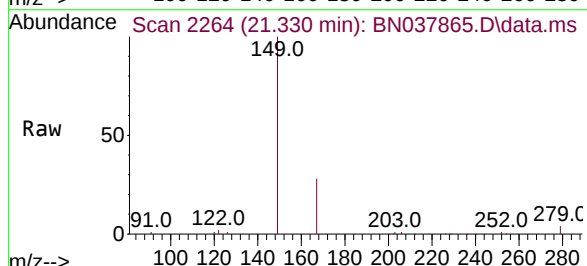
Tgt Ion:149 Resp: 31032

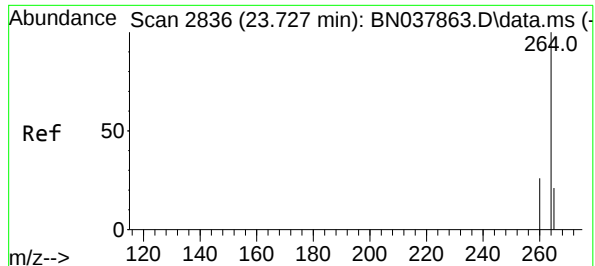
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

279 3.4 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.735 min Scan# 2839

Delta R.T. 0.009 min

Lab File: BN037865.D

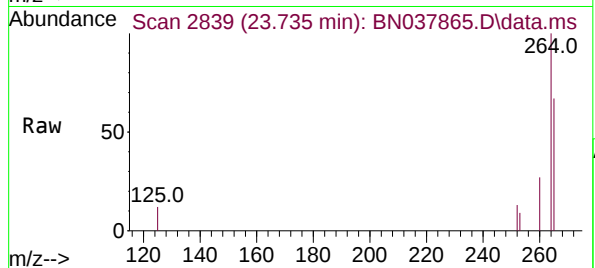
Acq: 23 Sep 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



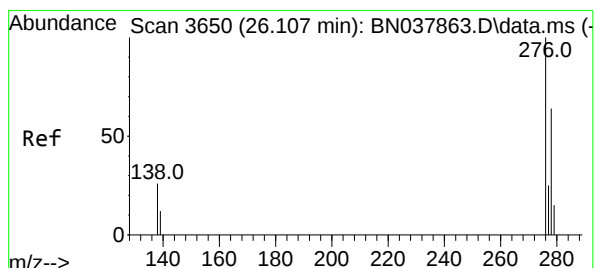
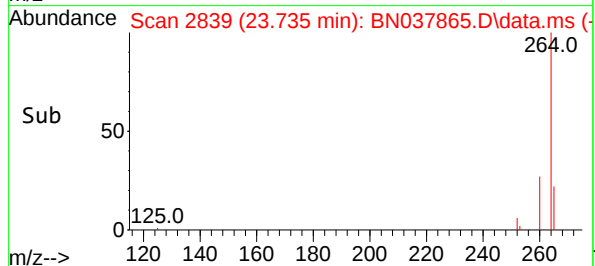
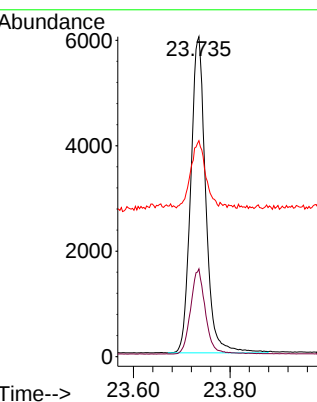
Tgt Ion:264 Resp: 12917

Ion Ratio Lower Upper

264 100

260 27.4 21.5 32.3

265 67.5 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.652 ng

RT: 26.112 min Scan# 3652

Delta R.T. 0.006 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

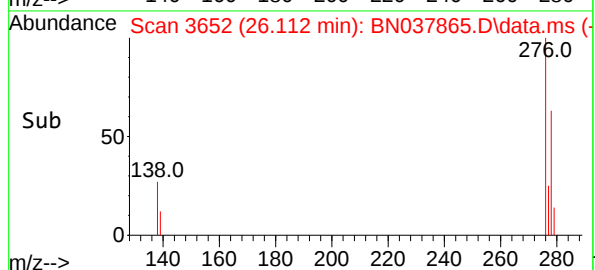
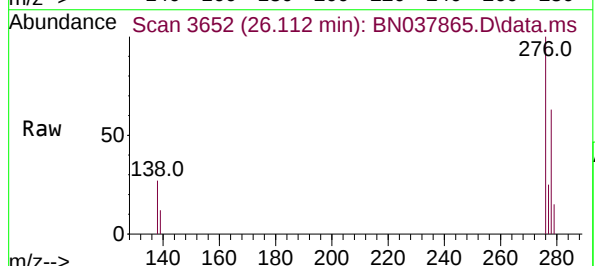
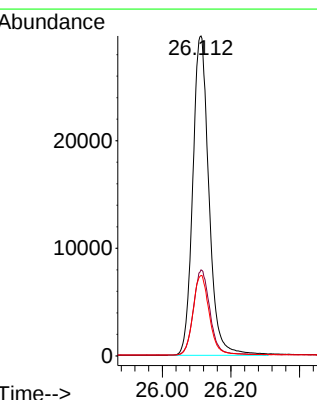
Tgt Ion:276 Resp: 97476

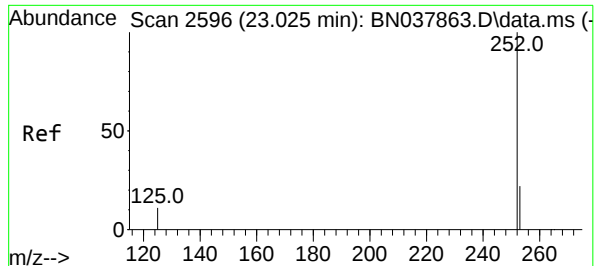
Ion Ratio Lower Upper

276 100

138 27.1 21.4 32.0

277 25.1 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 1.679 ng

RT: 23.028 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

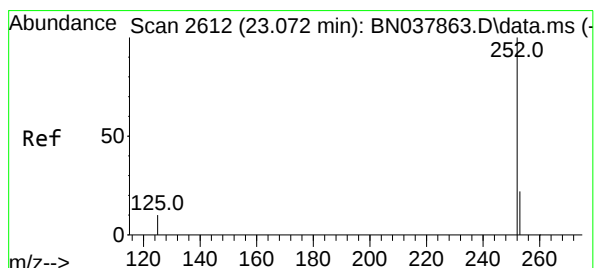
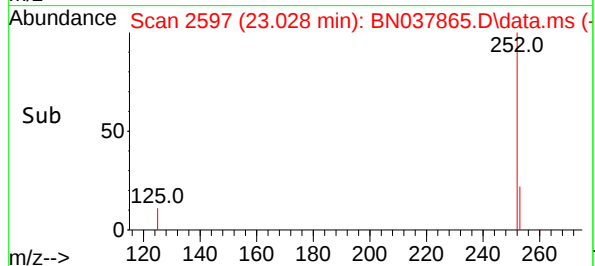
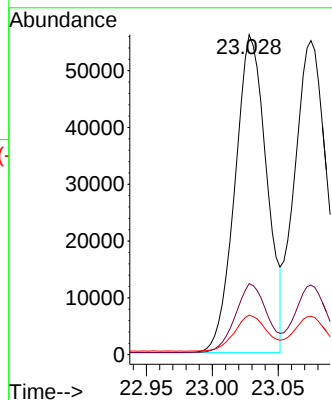
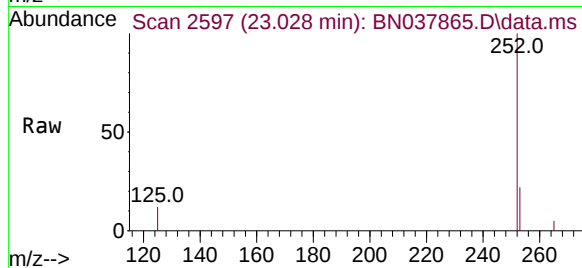
Tgt Ion:252 Resp: 93525

Ion Ratio Lower Upper

252 100

253 22.2 19.4 29.0

125 12.3 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 1.728 ng

RT: 23.075 min Scan# 2613

Delta R.T. 0.003 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

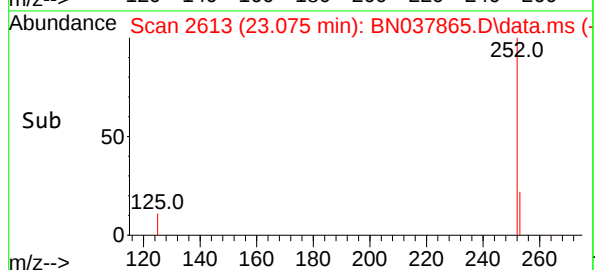
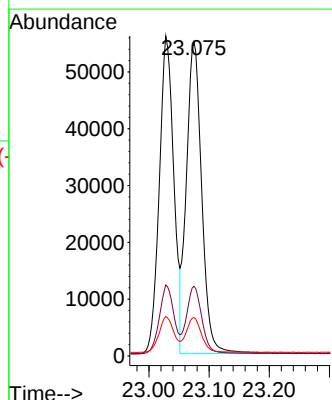
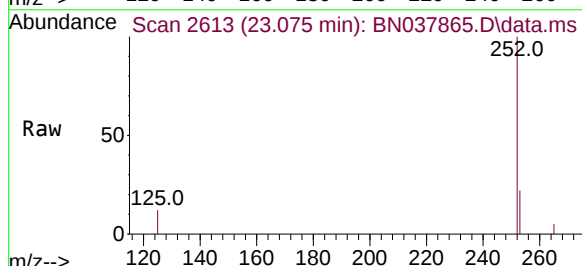
Tgt Ion:252 Resp: 96868

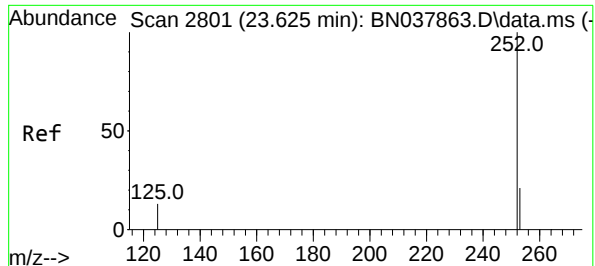
Ion Ratio Lower Upper

252 100

253 22.1 19.5 29.3

125 12.2 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 1.657 ng

RT: 23.630 min Scan# 2803

Delta R.T. 0.006 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

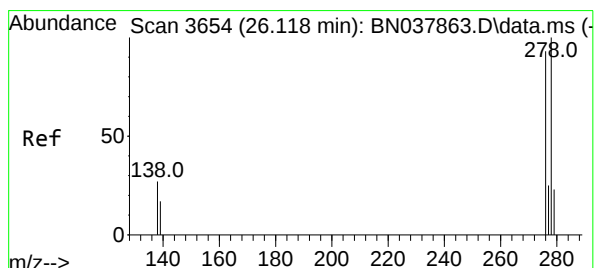
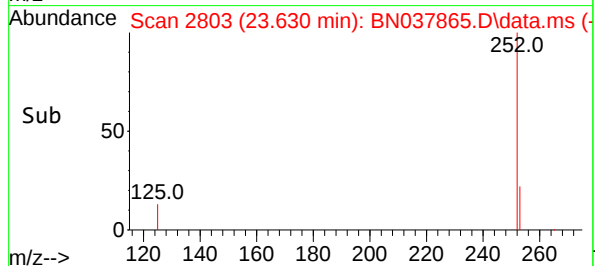
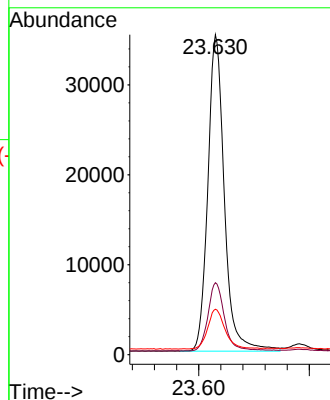
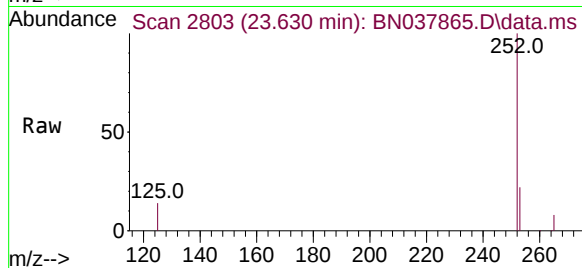
Tgt Ion:252 Resp: 73009

Ion Ratio Lower Upper

252 100

253 22.5 20.6 30.8

125 14.2 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 1.676 ng

RT: 26.127 min Scan# 3657

Delta R.T. 0.009 min

Lab File: BN037865.D

Acq: 23 Sep 2025 14:38

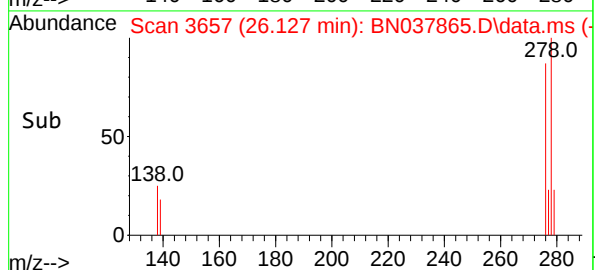
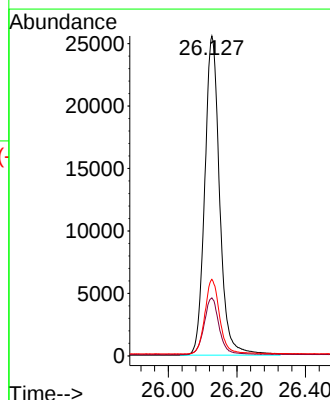
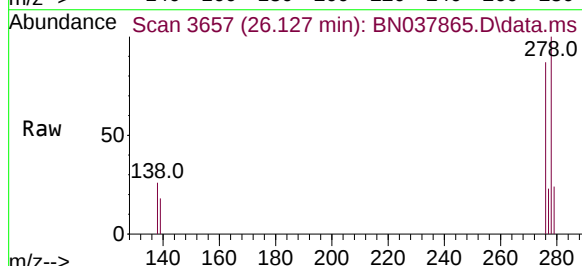
Tgt Ion:278 Resp: 77237

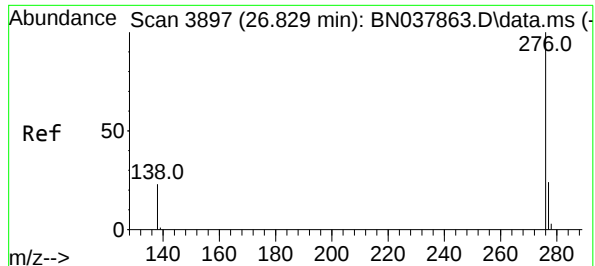
Ion Ratio Lower Upper

278 100

139 18.1 15.4 23.2

279 23.9 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 1.623 ng

RT: 26.835 min Scan# 38

Delta R.T. 0.006 min

Lab File: BN037865.D

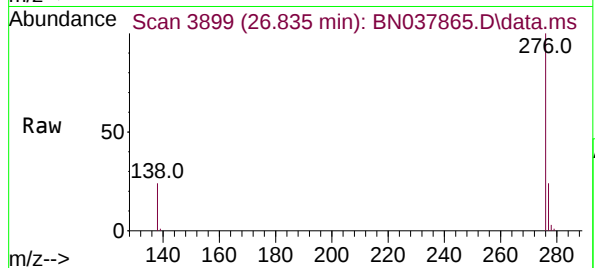
Acq: 23 Sep 2025 14:38

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



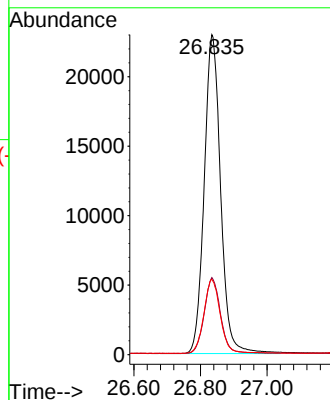
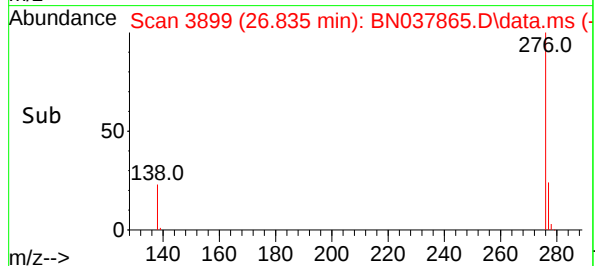
Tgt Ion:276 Resp: 78576

Ion Ratio Lower Upper

276 100

277 24.1 20.2 30.4

138 23.5 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
 Data File : BN037866.D  
 Acq On : 23 Sep 2025 15:15  
 Operator : RC/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: Sep 23 16:23:09 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:17:53 2025  
 Response via : Initial Calibration

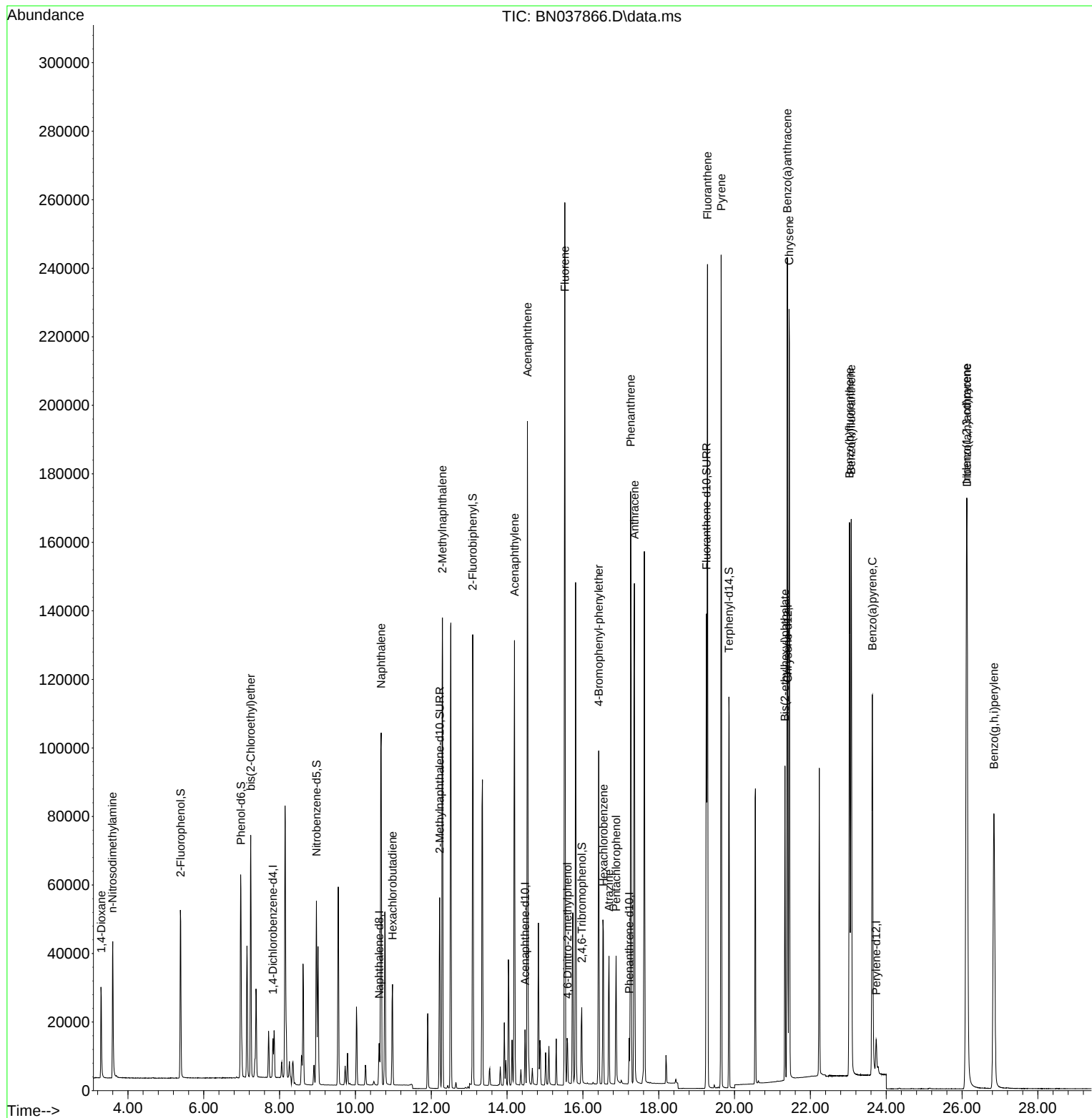
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.825  | 152  | 5486     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.626 | 136  | 15583    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.473 | 164  | 8623     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.223 | 188  | 16225    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.402 | 240  | 16309    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.736 | 264  | 13684    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.392  | 112  | 40521    | 3.237 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.980  | 99   | 54237    | 3.297 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.971  | 82   | 39859    | 3.353 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.222 | 152  | 73211    | 3.382 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.969 | 330  | 12677    | 3.642 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.094 | 172  | 113791   | 3.223 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.257 | 212  | 140845   | 3.451 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.852 | 244  | 105582   | 3.250 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.297  | 88   | 18009    | 3.234 | ng    | 99       |
| 3) n-Nitrosodimethylamine     | 3.593  | 42   | 24113    | 3.255 | ng    | # 89     |
| 6) bis(2-Chloroethyl)ether    | 7.240  | 93   | 49318    | 3.230 | ng    | 100      |
| 9) Naphthalene                | 10.680 | 128  | 141732   | 3.301 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.979 | 225  | 23493    | 3.208 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.293 | 142  | 96667    | 3.447 | ng    | 99       |
| 16) Acenaphthylene            | 14.195 | 152  | 134565   | 3.437 | ng    | 100      |
| 17) Acenaphthene              | 14.537 | 154  | 94611    | 3.392 | ng    | 95       |
| 18) Fluorene                  | 15.522 | 166  | 118468   | 3.511 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198  | 9172     | 3.211 | ng    | # 62     |
| 21) 4-Bromophenyl-phenylether | 16.416 | 248  | 35637    | 3.370 | ng    | 96       |
| 22) Hexachlorobenzene         | 16.540 | 284  | 41902    | 3.269 | ng    | 100      |
| 23) Atrazine                  | 16.689 | 200  | 29112    | 3.616 | ng    | 97       |
| 24) Pentachlorophenol         | 16.875 | 266  | 17645    | 4.011 | ng    | 97       |
| 25) Phenanthrene              | 17.260 | 178  | 178985   | 3.352 | ng    | 99       |
| 26) Anthracene                | 17.360 | 178  | 165527   | 3.573 | ng    | 100      |
| 28) Fluoranthene              | 19.285 | 202  | 209920   | 3.570 | ng    | 99       |
| 30) Pyrene                    | 19.647 | 202  | 208135   | 3.232 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.393 | 228  | 193464   | 3.394 | ng    | 98       |
| 33) Chrysene                  | 21.438 | 228  | 197283   | 3.201 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149  | 74195    | 3.291 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.118 | 276  | 218487   | 3.494 | ng    | 100      |
| 37) Benzo(b)fluoranthene      | 23.031 | 252  | 202282   | 3.428 | ng    | # 93     |
| 38) Benzo(k)fluoranthene      | 23.078 | 252  | 209819   | 3.534 | ng    | # 93     |
| 39) Benzo(a)pyrene            | 23.636 | 252  | 163321   | 3.499 | ng    | # 88     |
| 40) Dibenzo(a,h)anthracene    | 26.133 | 278  | 173724   | 3.558 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 26.841 | 276  | 176617   | 3.443 | ng    | 97       |

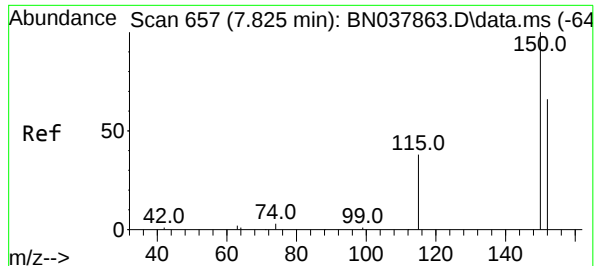
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
Data File : BN037866.D  
Acq On : 23 Sep 2025 15:15  
Operator : RC/JU  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

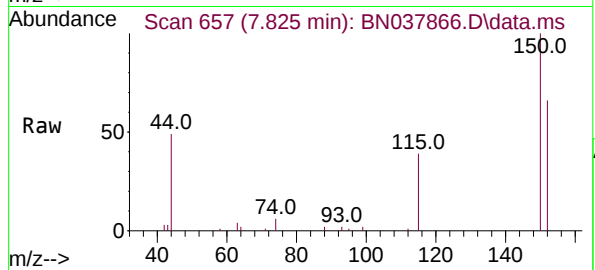
Quant Time: Sep 23 16:23:09 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 16:17:53 2025  
Response via : Initial Calibration



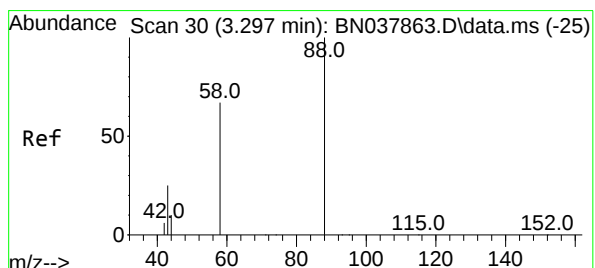
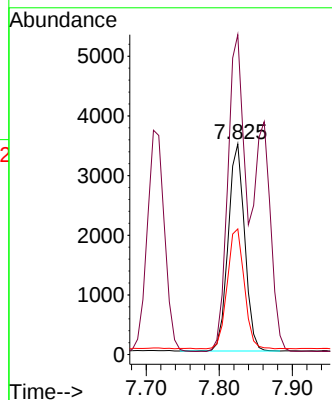
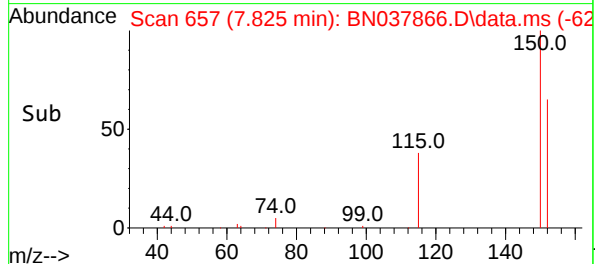


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.825 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

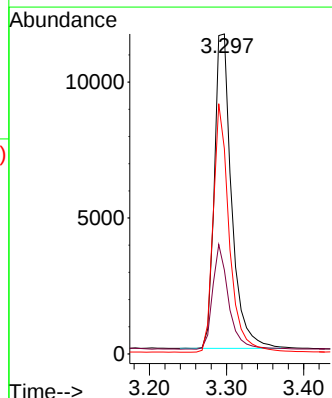
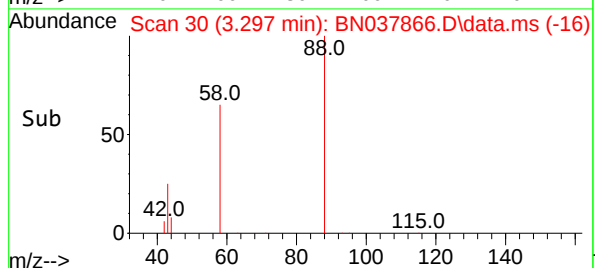
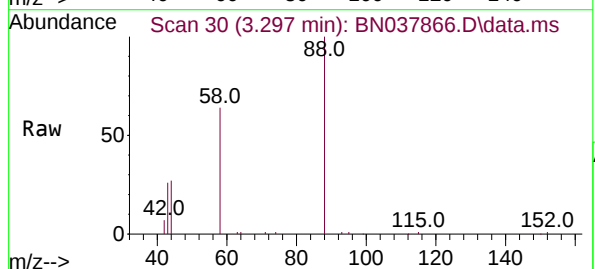


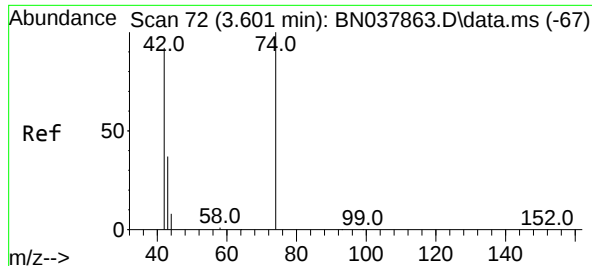
Tgt Ion:152 Resp: 5486  
Ion Ratio Lower Upper  
152 100  
150 151.9 121.0 181.4  
115 59.6 47.4 71.0



#2  
1,4-Dioxane  
Concen: 3.234 ng  
RT: 3.297 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

Tgt Ion: 88 Resp: 18009  
Ion Ratio Lower Upper  
88 100  
43 30.7 26.6 39.8  
58 73.6 58.9 88.3

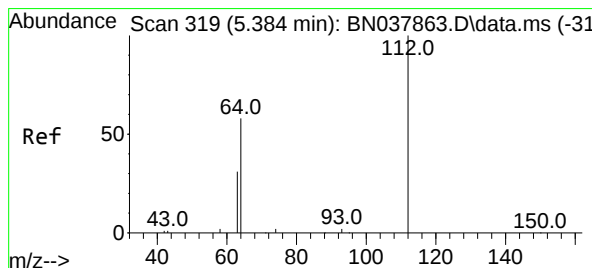
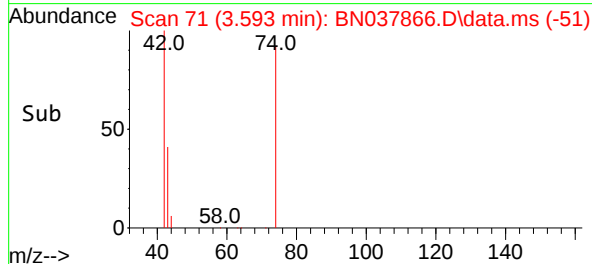
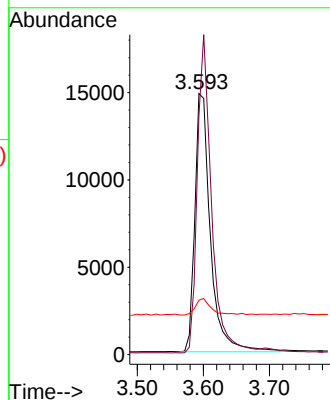
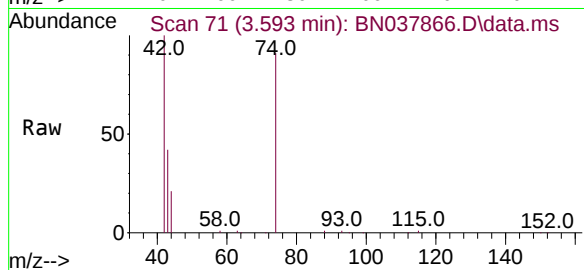




#3  
n-Nitrosodimethylamine  
Concen: 3.255 ng  
RT: 3.593 min Scan# 71  
Delta R.T. -0.007 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

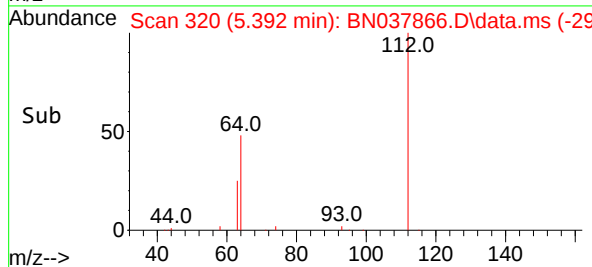
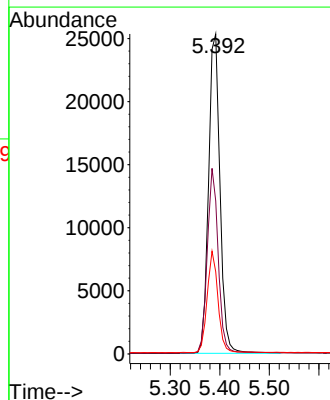
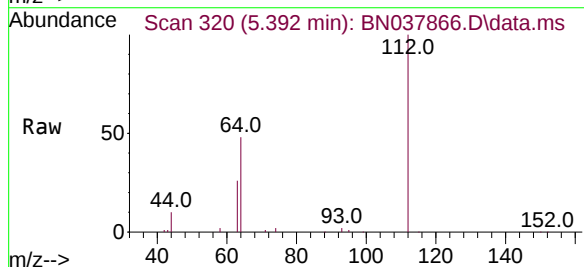
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

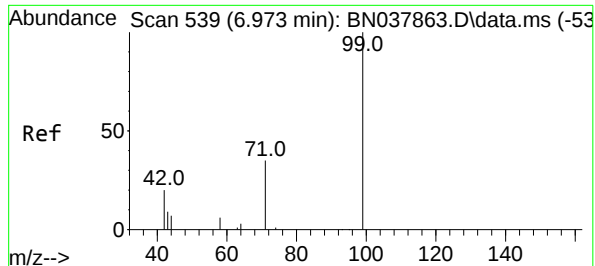
Tgt Ion: 42 Resp: 24113  
Ion Ratio Lower Upper  
42 100  
74 112.5 93.4 140.0  
44 6.3 22.2 33.4#



#4  
2-Fluorophenol  
Concen: 3.237 ng  
RT: 5.392 min Scan# 320  
Delta R.T. 0.007 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

Tgt Ion: 112 Resp: 40521  
Ion Ratio Lower Upper  
112 100  
64 55.6 44.6 66.8  
63 30.1 24.9 37.3

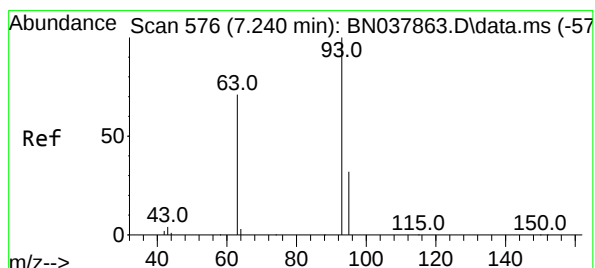
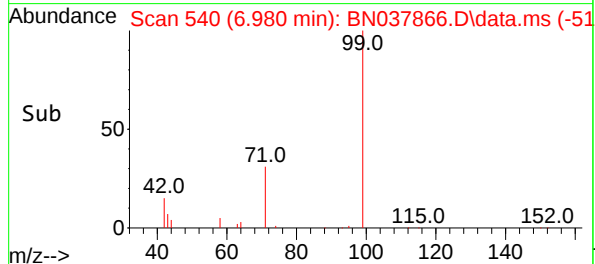
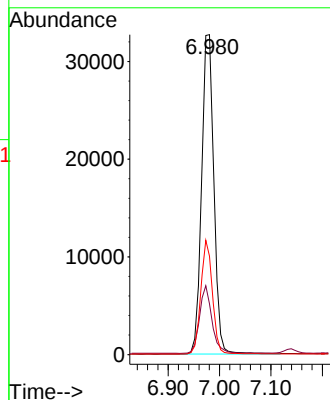
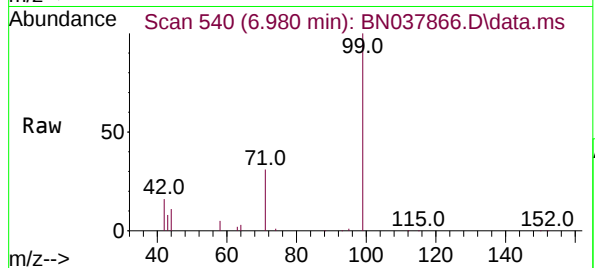




#5  
Phenol-d6  
Concen: 3.297 ng  
RT: 6.980 min Scan# 54  
Delta R.T. 0.007 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

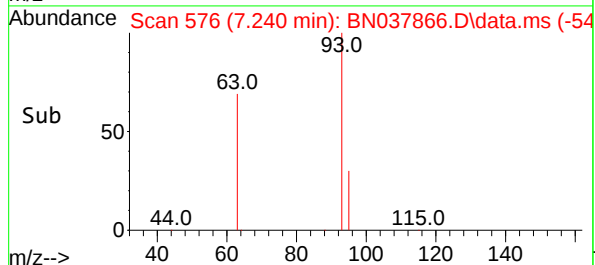
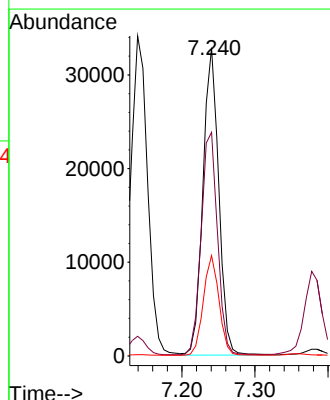
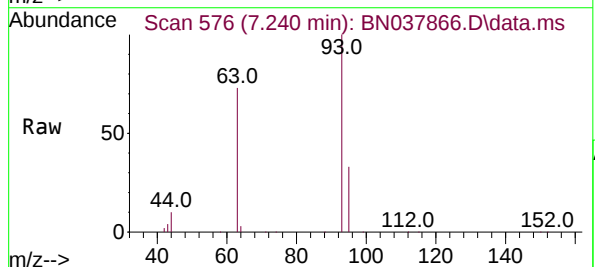
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

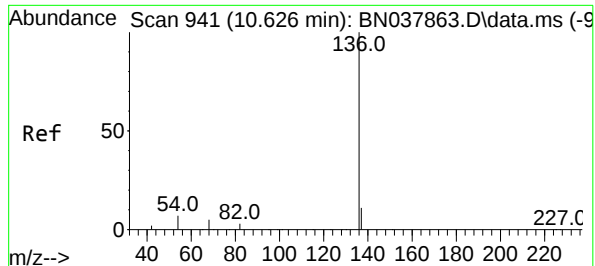
Tgt Ion: 99 Resp: 54237  
Ion Ratio Lower Upper  
99 100  
42 21.2 17.2 25.8  
71 33.7 27.3 40.9



#6  
bis(2-Chloroethyl)ether  
Concen: 3.230 ng  
RT: 7.240 min Scan# 576  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

Tgt Ion: 93 Resp: 49318  
Ion Ratio Lower Upper  
93 100  
63 74.8 60.1 90.1  
95 32.1 25.4 38.2

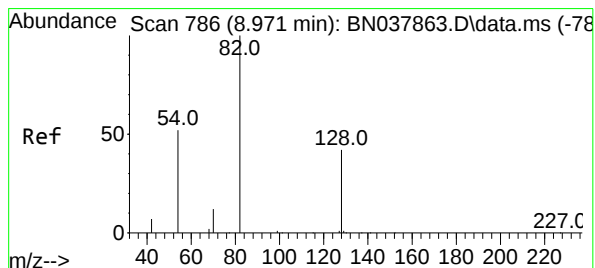
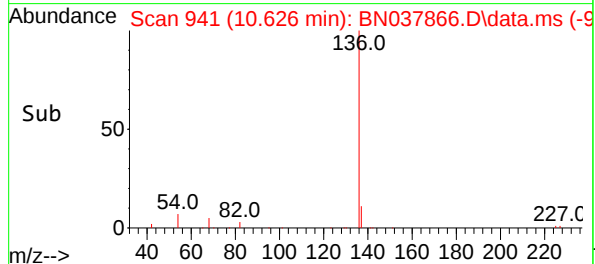
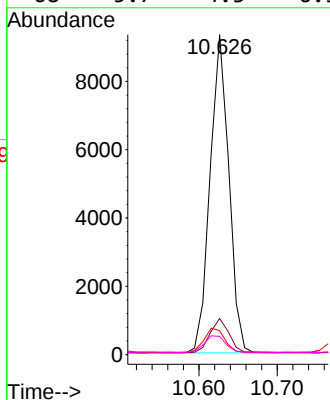
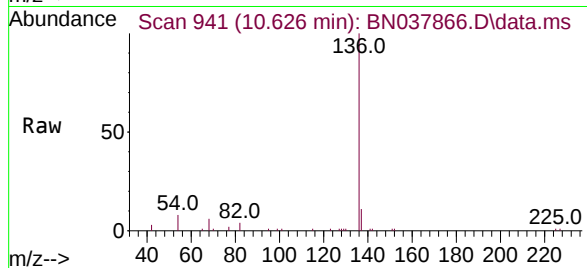




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.626 min Scan# 941  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

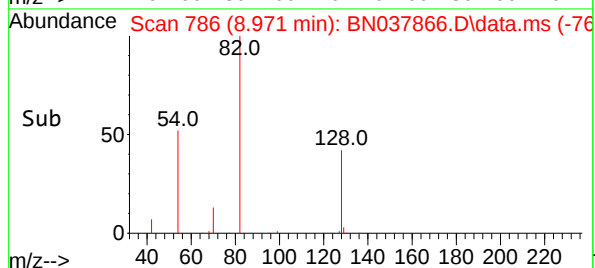
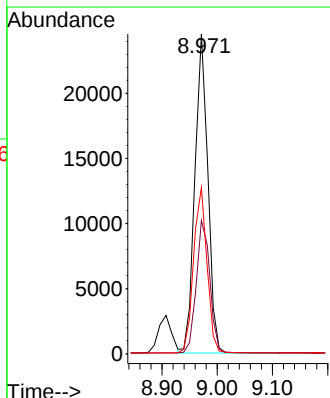
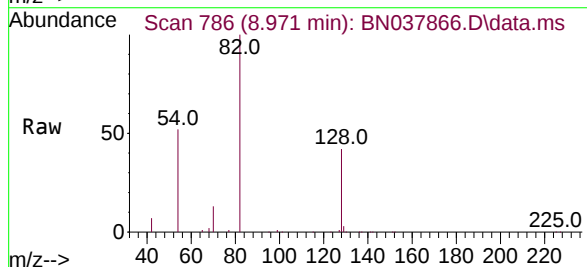
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

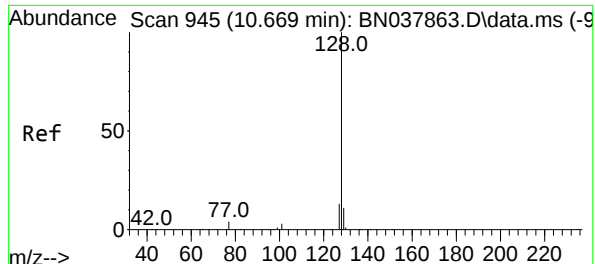
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 136   | Resp: | 15583 |
| Ion Ratio | Lower | Upper |       |
| 136       | 100   |       |       |
| 137       | 11.3  | 9.0   | 13.4  |
| 54        | 7.5   | 5.8   | 8.8   |
| 68        | 5.7   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 3.353 ng  
RT: 8.971 min Scan# 786  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 82    | Resp: | 39859 |
| Ion Ratio | Lower | Upper |       |
| 82        | 100   |       |       |
| 128       | 41.7  | 34.8  | 52.2  |
| 54        | 52.0  | 42.2  | 63.2  |

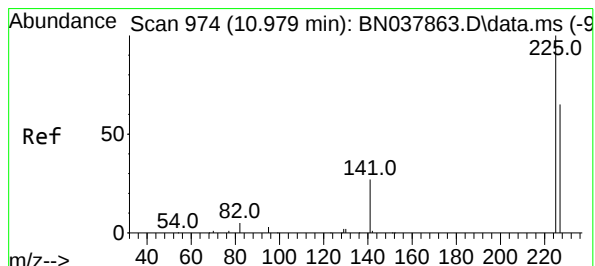
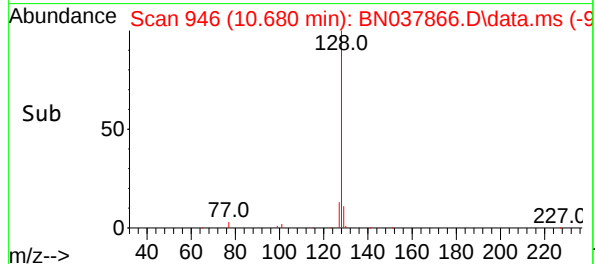
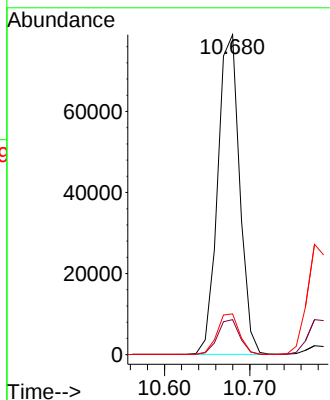
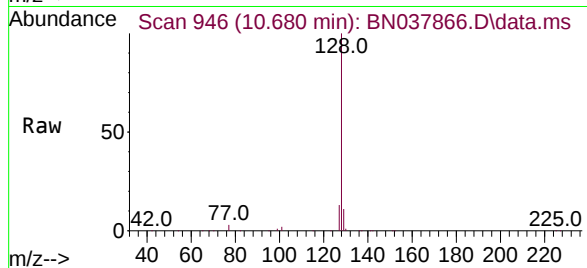




#9  
Naphthalene  
Concen: 3.301 ng  
RT: 10.680 min Scan# 945  
Delta R.T. 0.011 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

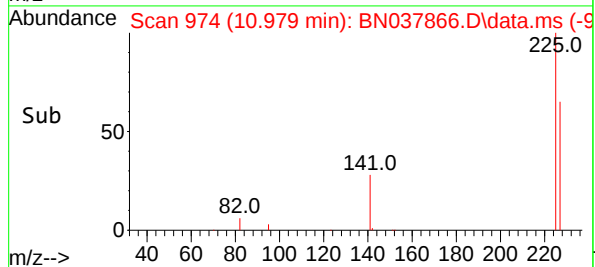
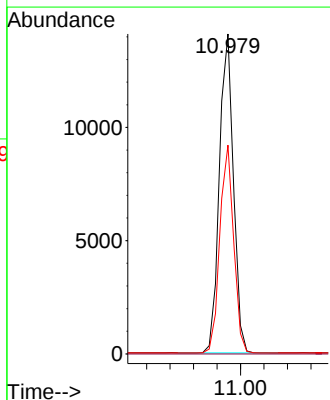
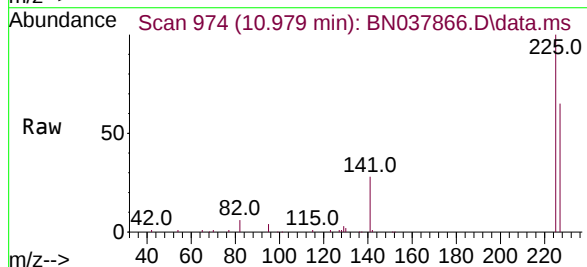
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

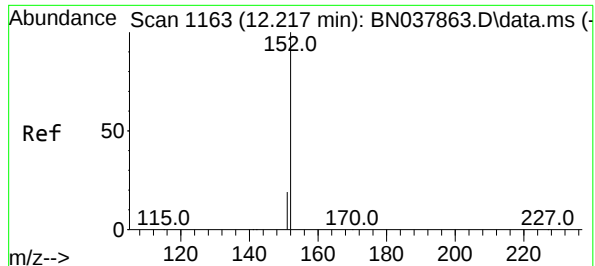
Tgt Ion:128 Resp: 141732  
Ion Ratio Lower Upper  
128 100  
129 10.9 9.2 13.8  
127 12.7 11.0 16.6



#10  
Hexachlorobutadiene  
Concen: 3.208 ng  
RT: 10.979 min Scan# 974  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

Tgt Ion:225 Resp: 23493  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.8 51.4 77.2

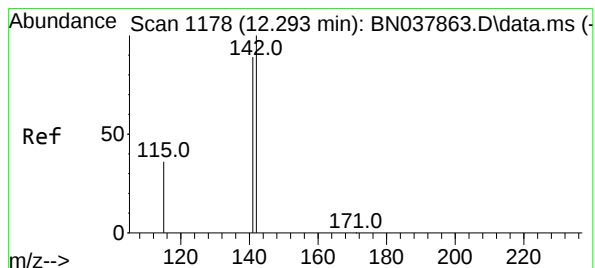
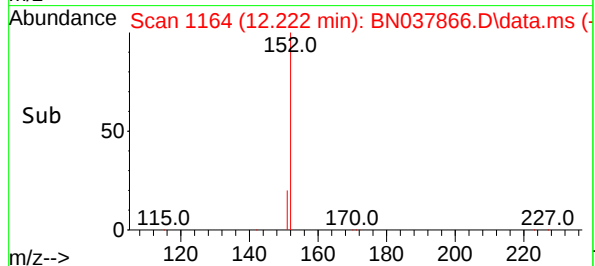
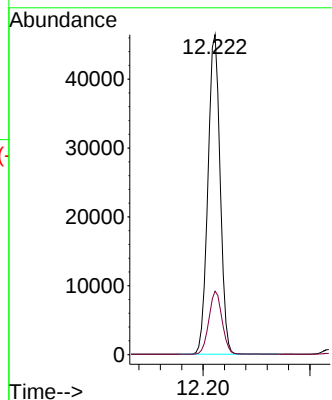
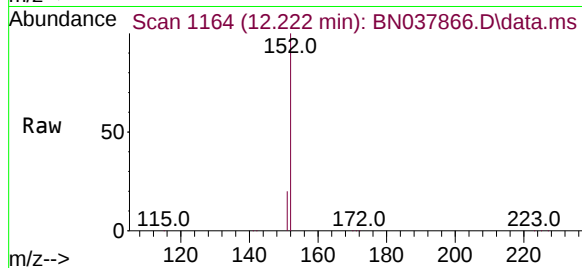




#11  
2-Methylnaphthalene-d10  
Concen: 3.382 ng  
RT: 12.222 min Scan# 1164  
Delta R.T. 0.005 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

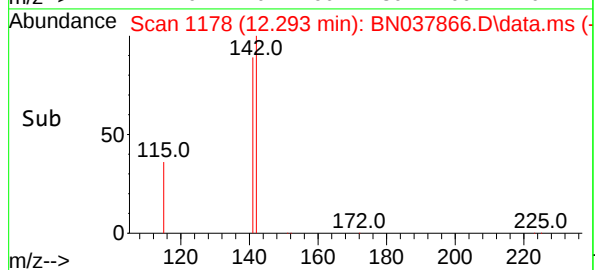
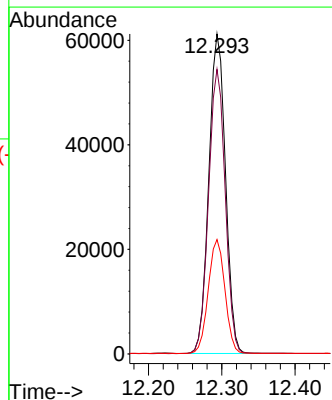
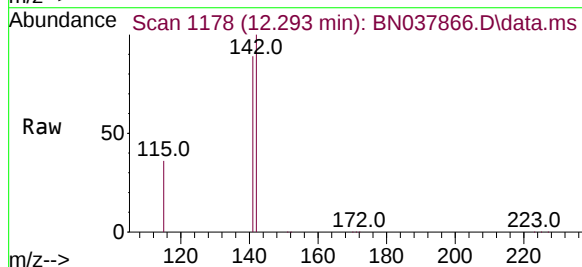
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

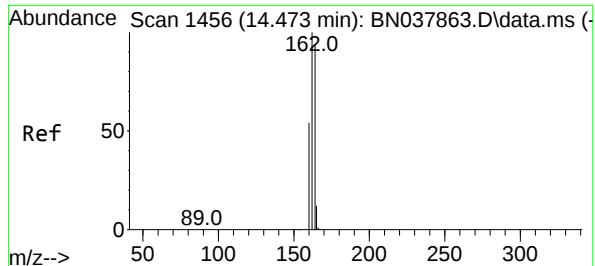
Tgt Ion:152 Resp: 73211  
Ion Ratio Lower Upper  
152 100  
151 21.3 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 3.447 ng  
RT: 12.293 min Scan# 1178  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

Tgt Ion:142 Resp: 96667  
Ion Ratio Lower Upper  
142 100  
141 88.9 71.2 106.8  
115 35.7 29.7 44.5

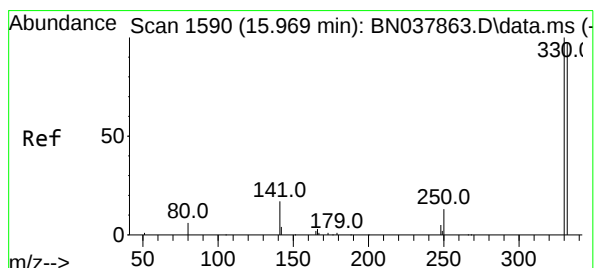
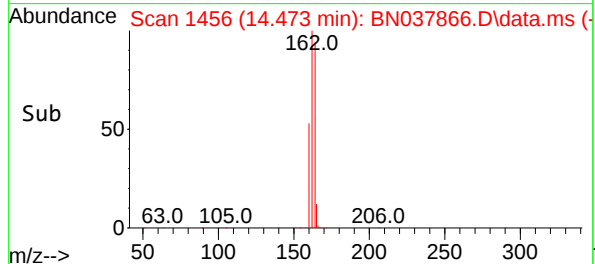
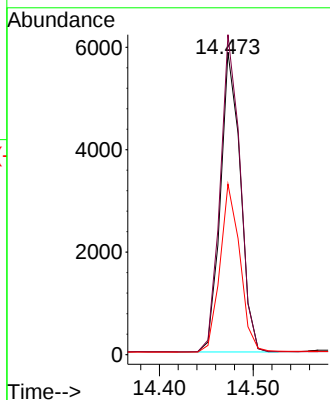
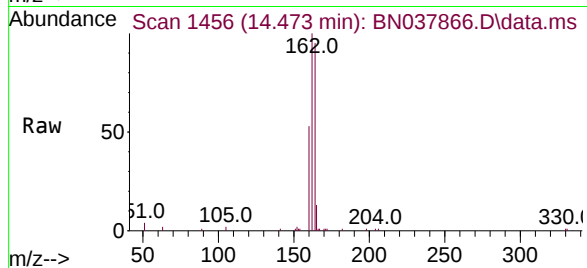




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.473 min Scan# 1456  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

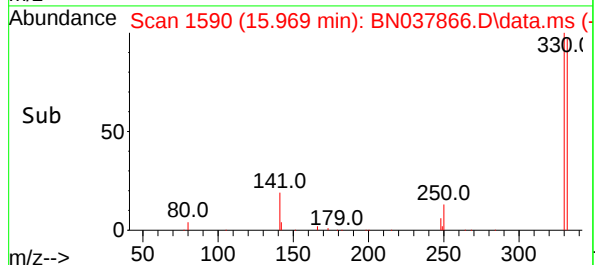
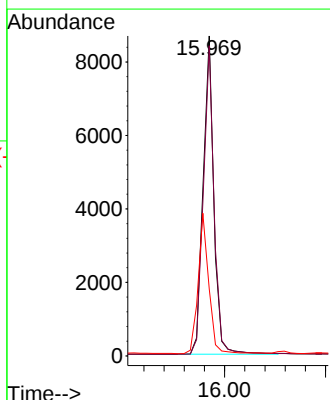
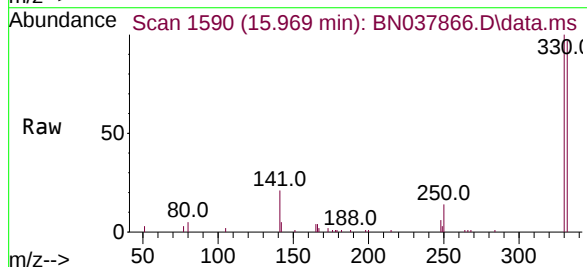
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

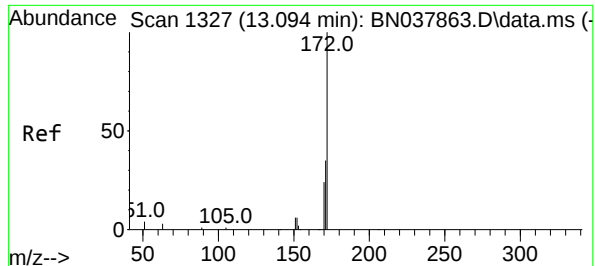
Tgt Ion:164 Resp: 8623  
Ion Ratio Lower Upper  
164 100  
162 105.8 84.8 127.2  
160 56.4 46.1 69.1



#14  
2,4,6-Tribromophenol  
Concen: 3.642 ng  
RT: 15.969 min Scan# 1590  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

Tgt Ion:330 Resp: 12677  
Ion Ratio Lower Upper  
330 100  
332 97.5 77.2 115.8  
141 44.0 37.2 55.8

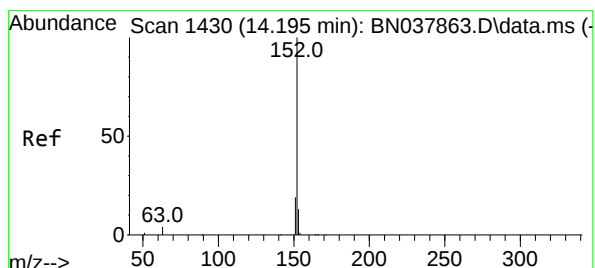
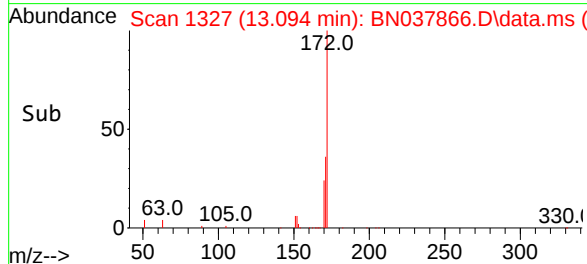
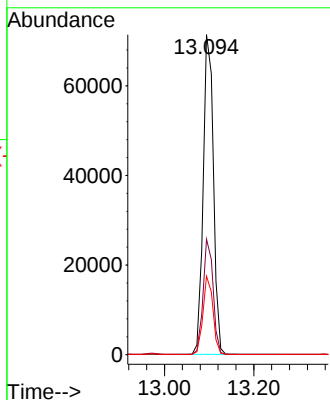
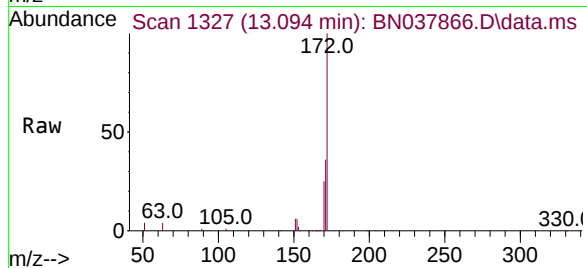




#15  
2-Fluorobiphenyl  
Concen: 3.223 ng  
RT: 13.094 min Scan# 1327  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

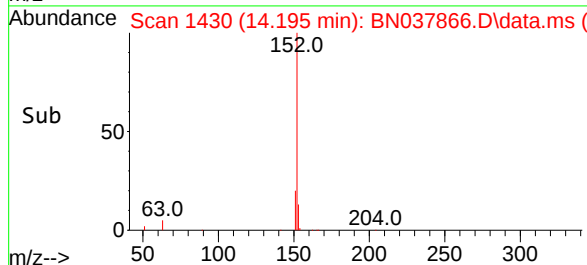
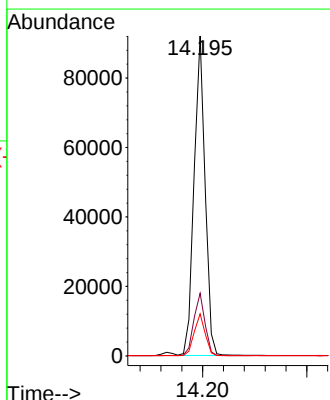
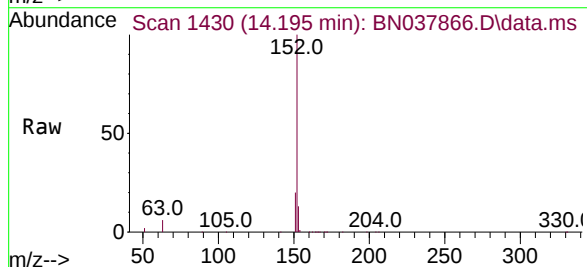
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

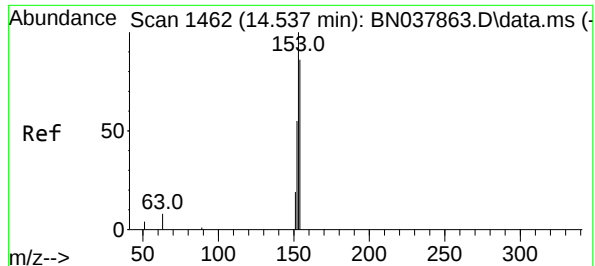
Tgt Ion:172 Resp: 113791  
Ion Ratio Lower Upper  
172 100  
171 36.1 28.6 43.0  
170 24.6 19.7 29.5



#16  
Acenaphthylene  
Concen: 3.437 ng  
RT: 14.195 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

Tgt Ion:152 Resp: 134565  
Ion Ratio Lower Upper  
152 100  
151 19.7 15.8 23.8  
153 13.0 10.5 15.7

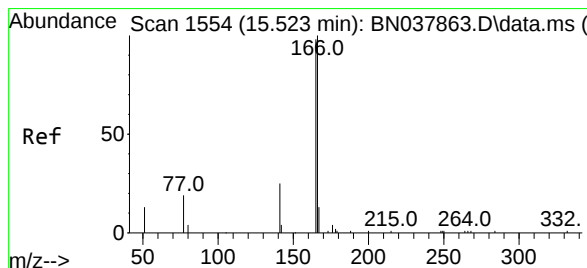
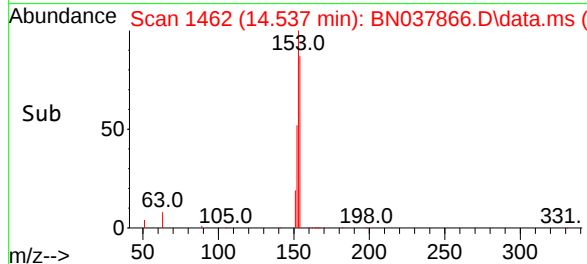
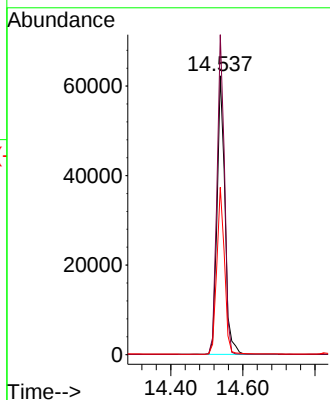
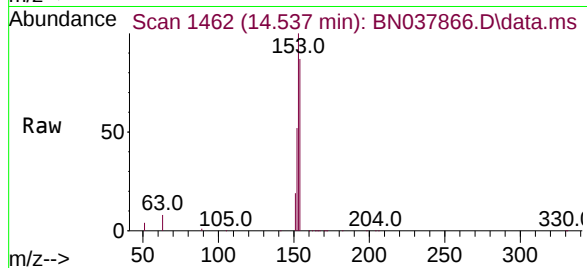




#17  
Acenaphthene  
Concen: 3.392 ng  
RT: 14.537 min Scan# 1462  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

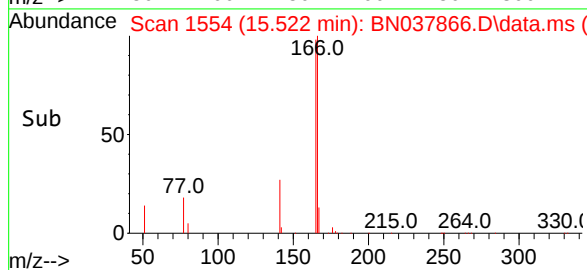
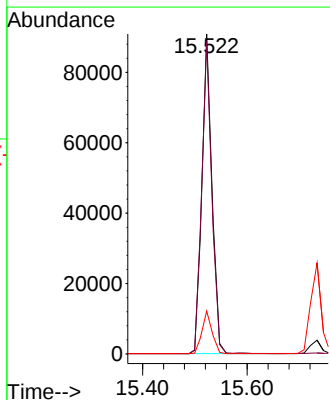
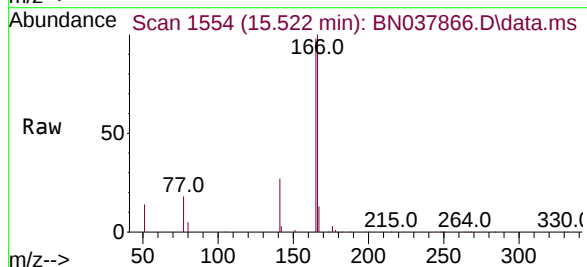
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

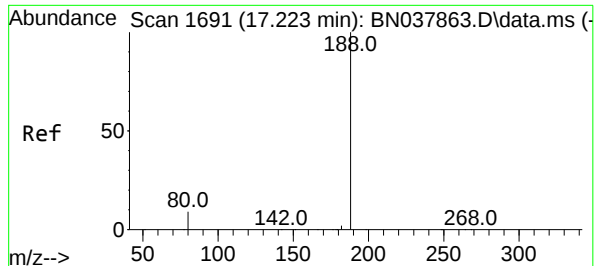
| Tgt Ion   | 154   | 153   | 152  |
|-----------|-------|-------|------|
| Resp:     | 94611 | 109.6 | 58.7 |
| Ion Ratio | 100   | 109.6 | 58.7 |
| Lower     |       | 90.5  | 51.8 |
| Upper     |       | 135.7 | 77.8 |



#18  
Fluorene  
Concen: 3.511 ng  
RT: 15.522 min Scan# 1554  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

| Tgt Ion   | 166    | 165   | 167  |
|-----------|--------|-------|------|
| Resp:     | 118468 | 98.2  | 13.1 |
| Ion Ratio | 100    | 98.2  | 13.1 |
| Lower     |        | 79.0  | 10.6 |
| Upper     |        | 118.4 | 16.0 |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1691

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

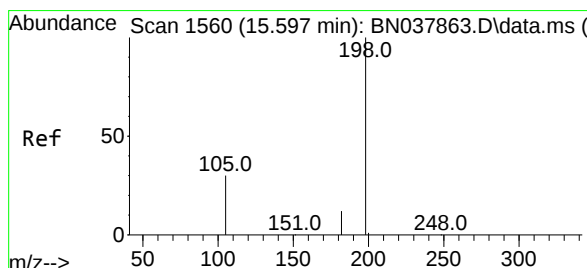
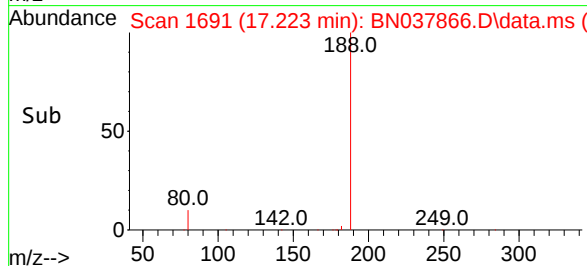
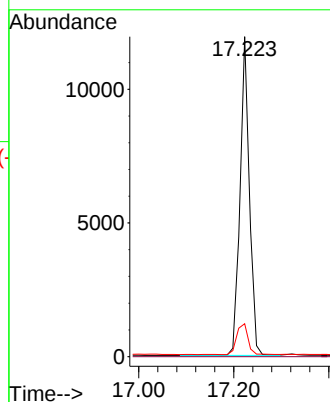
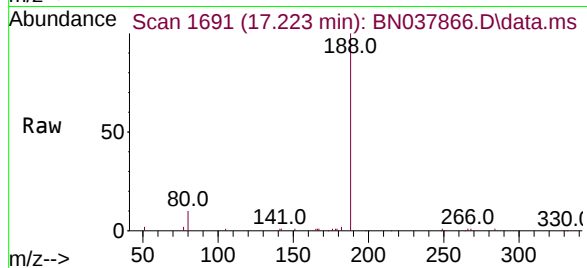
Tgt Ion:188 Resp: 16225

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.3 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 3.211 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

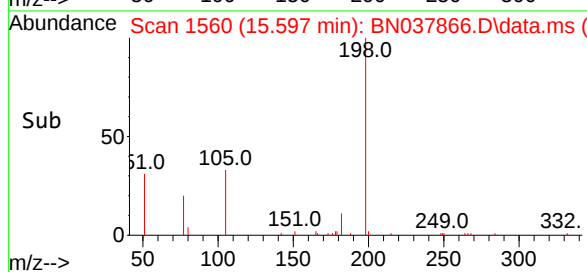
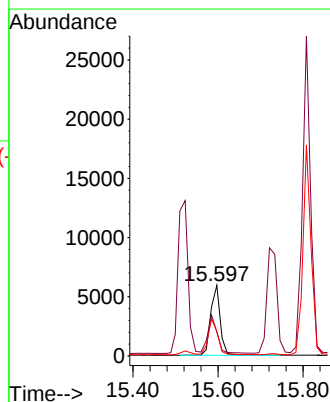
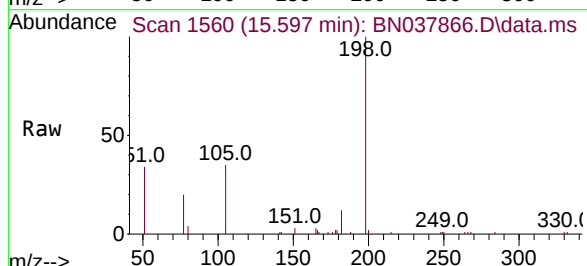
Tgt Ion:198 Resp: 9172

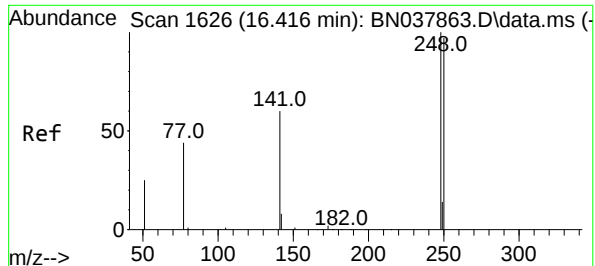
Ion Ratio Lower Upper

198 100

51 33.8 59.1 88.7#

105 34.5 41.3 61.9#





#21

4-Bromophenyl-phenylether

Concen: 3.370 ng

RT: 16.416 min Scan# 1626

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

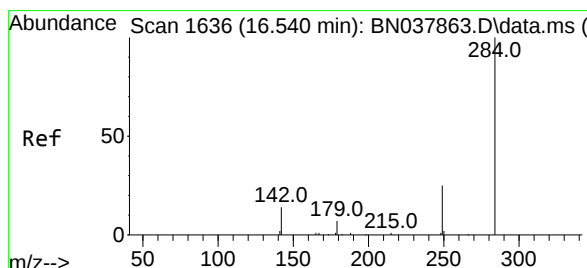
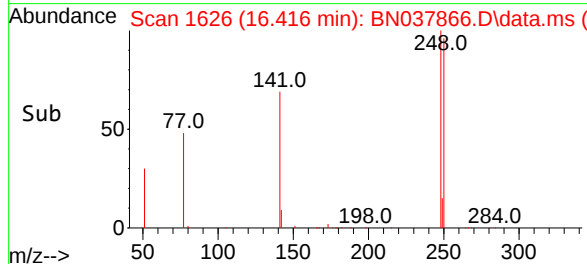
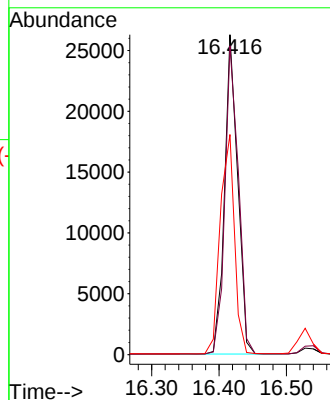
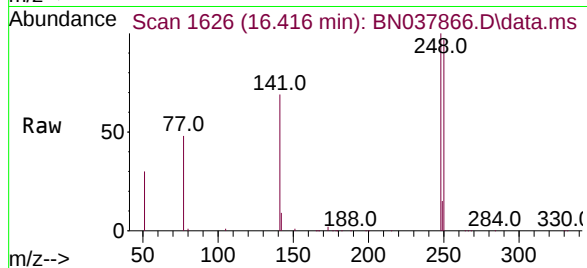
Tgt Ion:248 Resp: 35637

Ion Ratio Lower Upper

248 100

250 96.5 77.6 116.4

141 68.8 48.8 73.2



#22

Hexachlorobenzene

Concen: 3.269 ng

RT: 16.540 min Scan# 1636

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

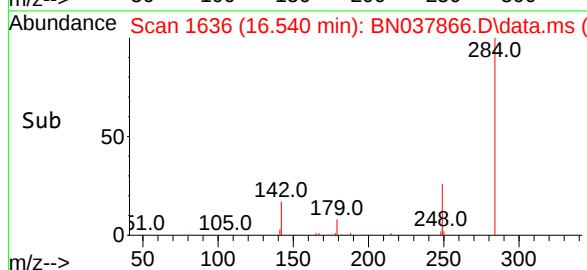
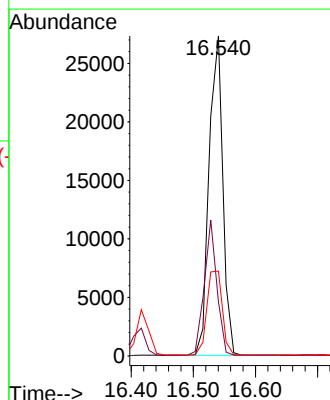
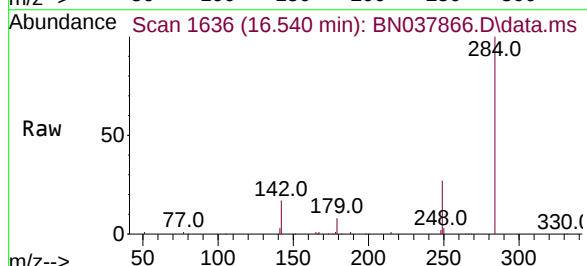
Tgt Ion:284 Resp: 41902

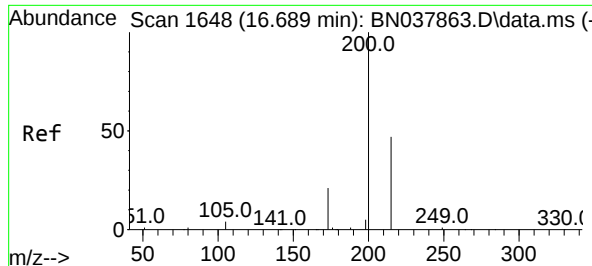
Ion Ratio Lower Upper

284 100

142 38.5 30.9 46.3

249 29.5 23.9 35.9

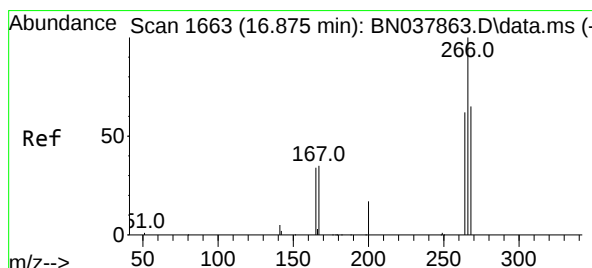
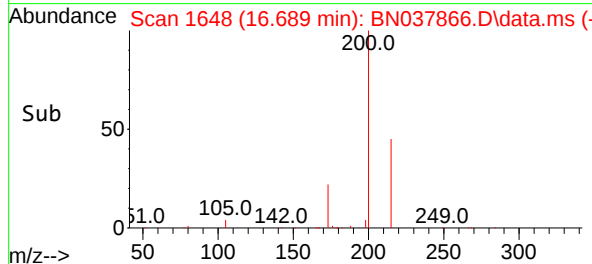
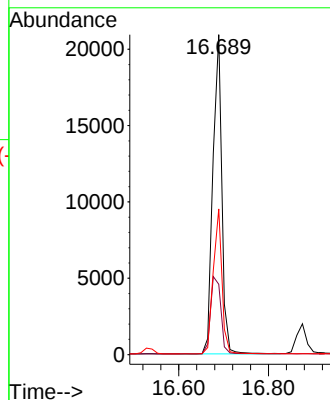
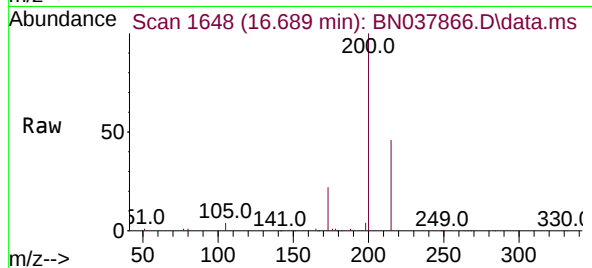




#23  
Atrazine  
Concen: 3.616 ng  
RT: 16.689 min Scan# 1648  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

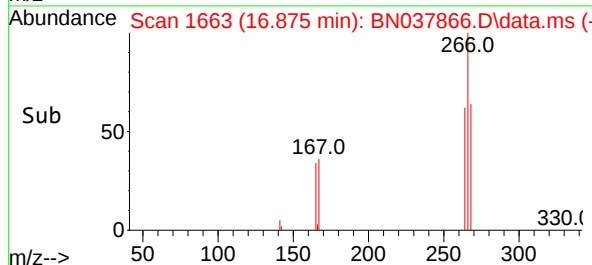
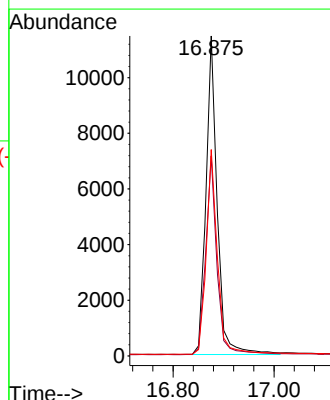
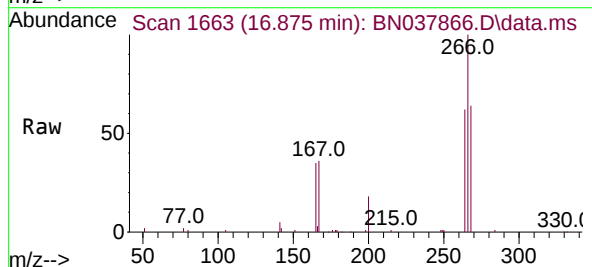
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

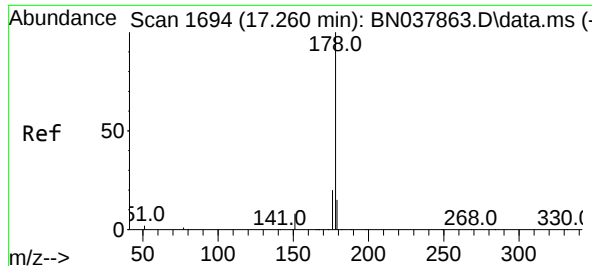
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 22.0  | 18.3  | 27.5  |
| 215     | 45.5  | 38.6  | 58.0  |



#24  
Pentachlorophenol  
Concen: 4.011 ng  
RT: 16.875 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 62.5  | 50.9  | 76.3  |
| 268     | 64.0  | 54.3  | 81.5  |

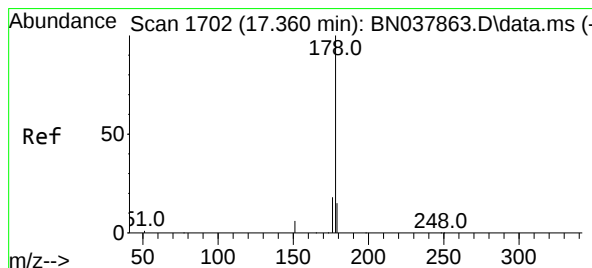
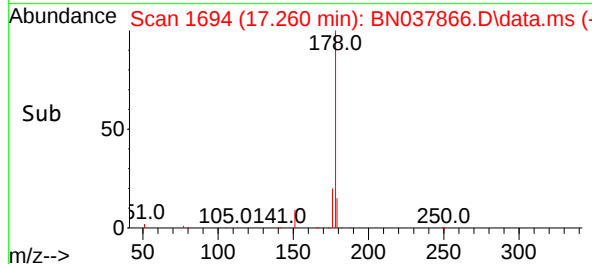
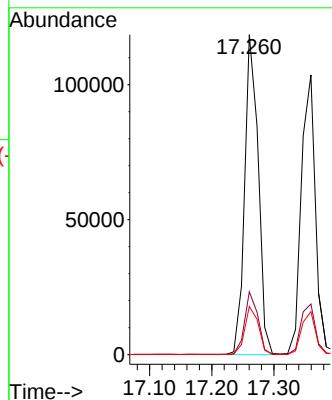
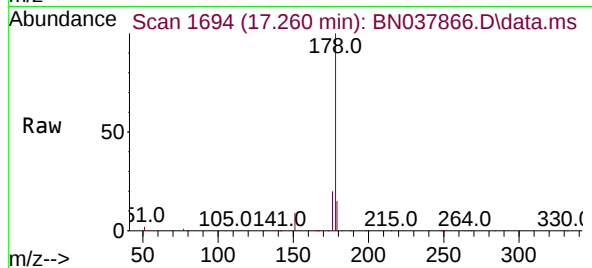




#25  
Phenanthrene  
Concen: 3.352 ng  
RT: 17.260 min Scan# 1694  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

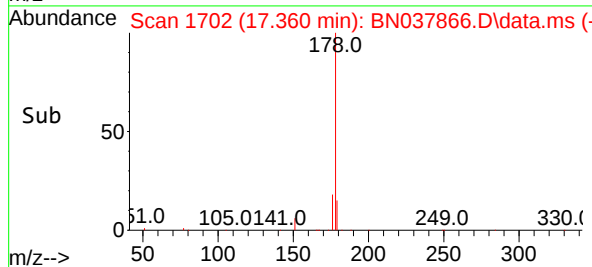
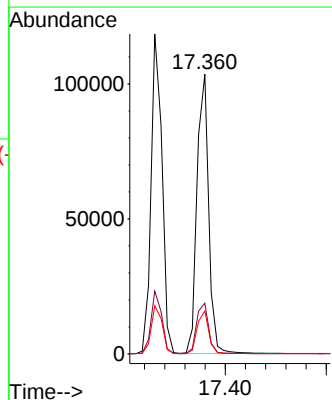
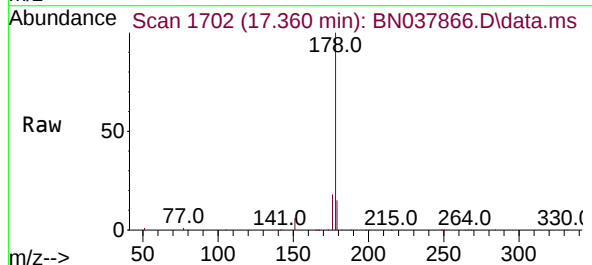
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

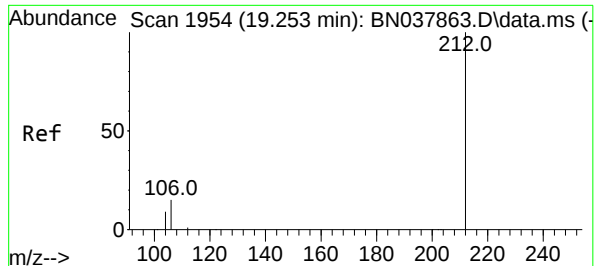
Tgt Ion:178 Resp: 178985  
Ion Ratio Lower Upper  
178 100  
176 19.2 15.7 23.5  
179 15.1 12.3 18.5



#26  
Anthracene  
Concen: 3.573 ng  
RT: 17.360 min Scan# 1702  
Delta R.T. -0.000 min  
Lab File: BN037866.D  
Acq: 23 Sep 2025 15:15

Tgt Ion:178 Resp: 165527  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.4  
179 15.2 12.3 18.5





#27

Fluoranthene-d10

Concen: 3.451 ng

RT: 19.257 min Scan# 1954

Delta R.T. 0.005 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

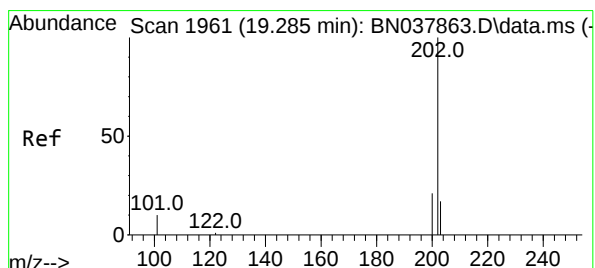
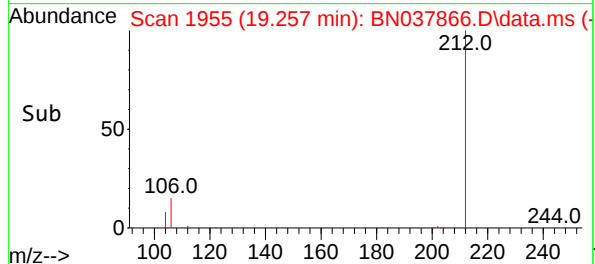
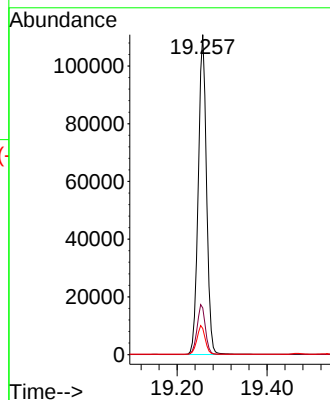
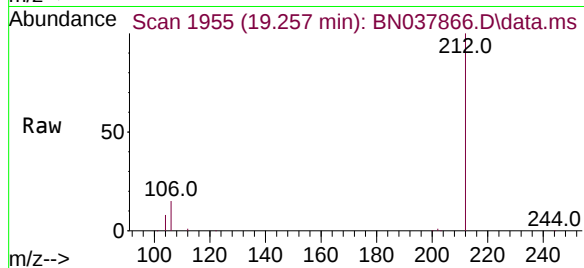
Tgt Ion:212 Resp: 140845

Ion Ratio Lower Upper

212 100

106 15.7 12.6 19.0

104 9.0 7.4 11.0



#28

Fluoranthene

Concen: 3.570 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

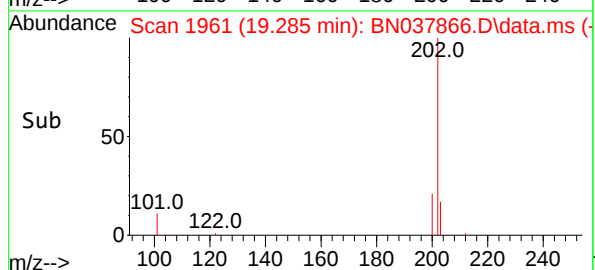
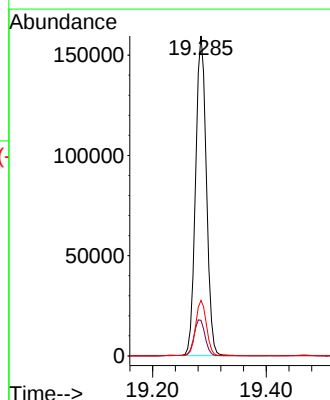
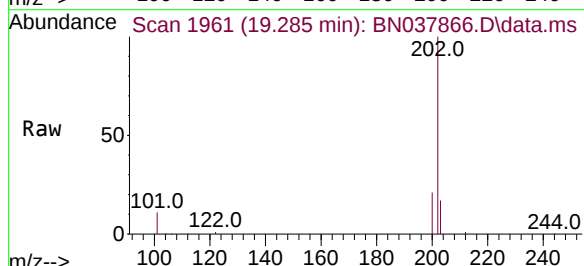
Tgt Ion:202 Resp: 209920

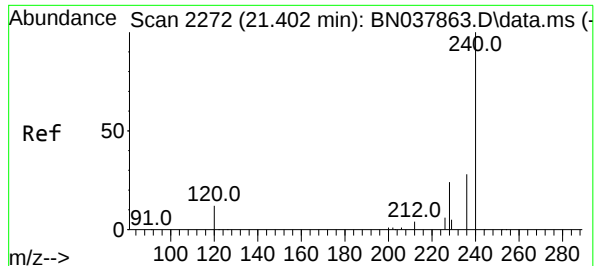
Ion Ratio Lower Upper

202 100

101 11.7 9.3 13.9

203 17.3 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

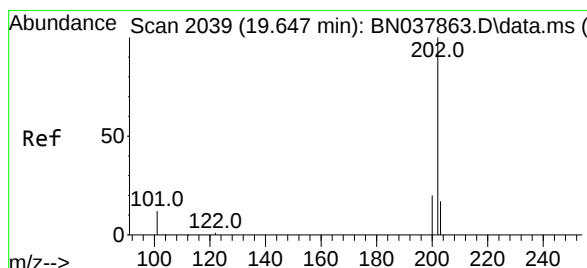
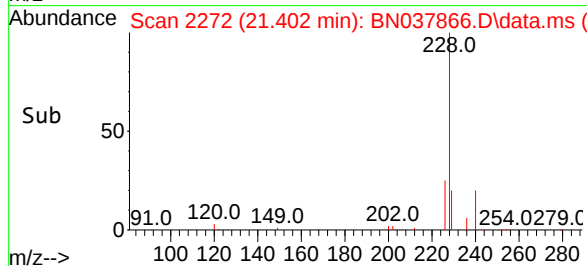
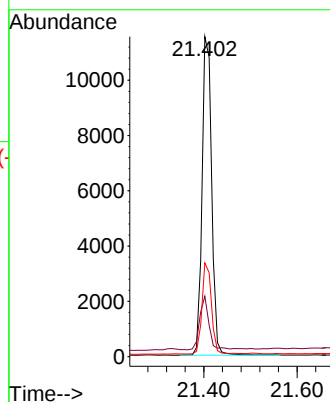
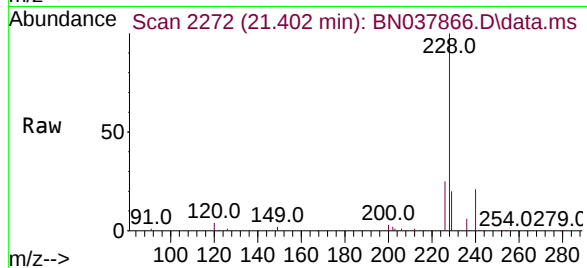
Tgt Ion:240 Resp: 16309

Ion Ratio Lower Upper

240 100

120 18.9 11.4 17.2#

236 29.3 23.0 34.6



#30

Pyrene

Concen: 3.232 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

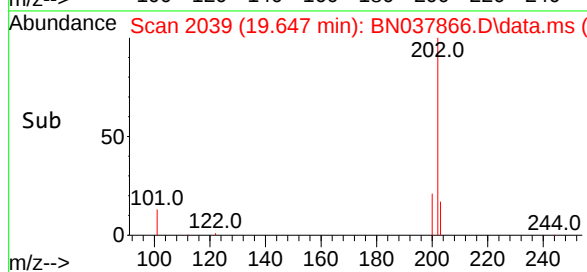
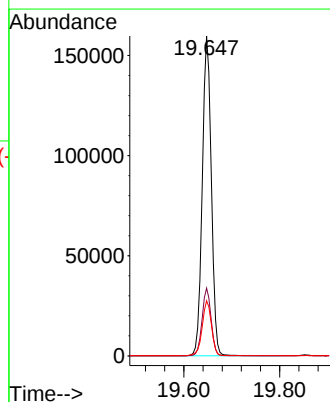
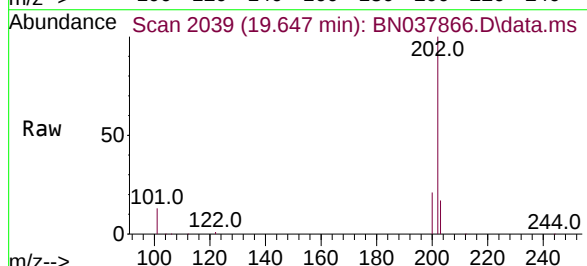
Tgt Ion:202 Resp: 208135

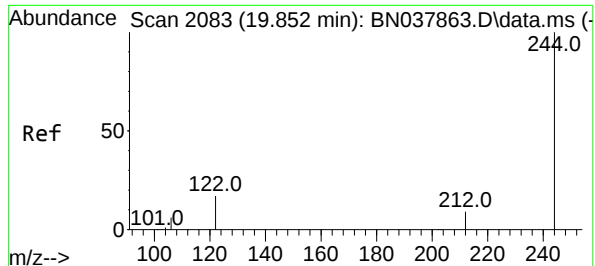
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4





#31

Terphenyl-d14

Concen: 3.250 ng

RT: 19.852 min Scan# 2083

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

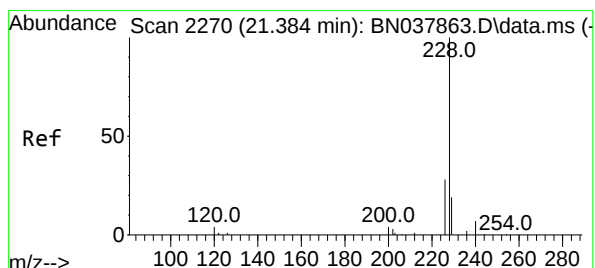
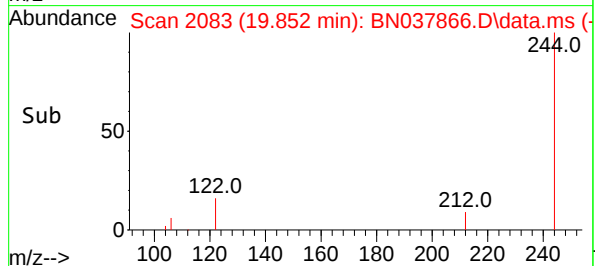
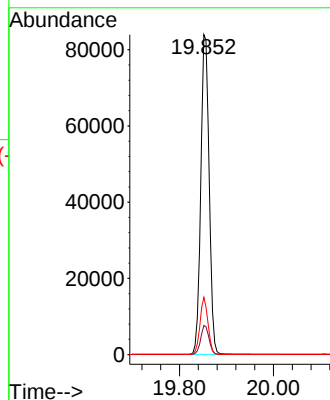
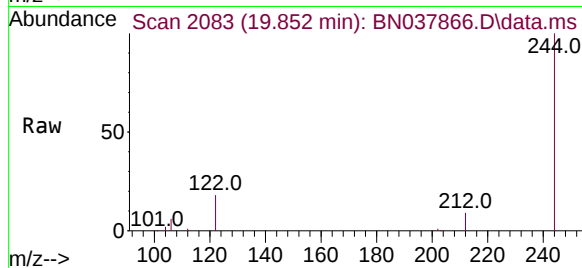
Tgt Ion:244 Resp: 105582

Ion Ratio Lower Upper

244 100

212 9.1 7.6 11.4

122 17.9 13.9 20.9



#32

Benzo(a)anthracene

Concen: 3.394 ng

RT: 21.393 min Scan# 2271

Delta R.T. 0.009 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

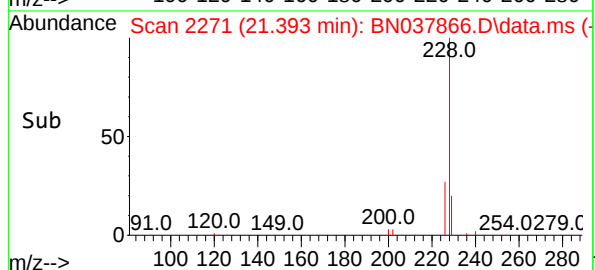
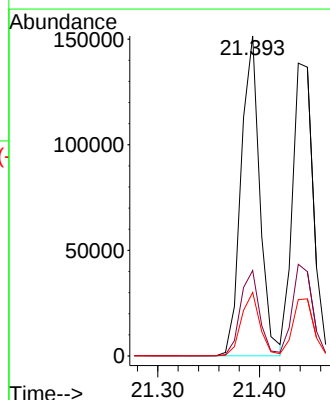
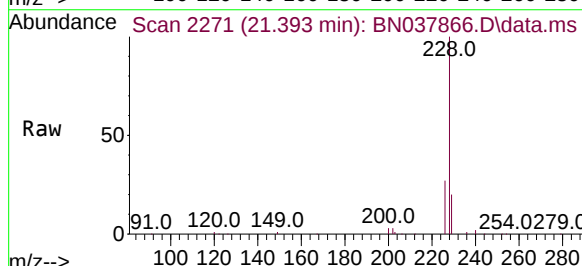
Tgt Ion:228 Resp: 193464

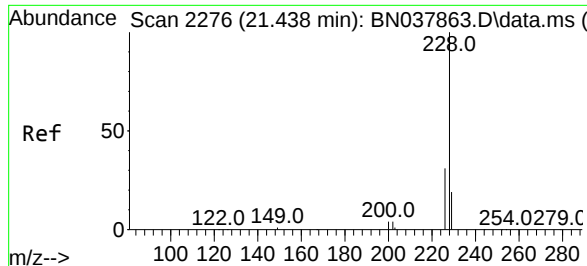
Ion Ratio Lower Upper

228 100

226 26.7 22.6 33.8

229 19.8 15.6 23.4





#33

Chrysene

Concen: 3.201 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

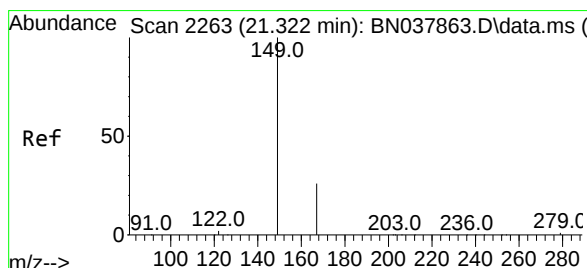
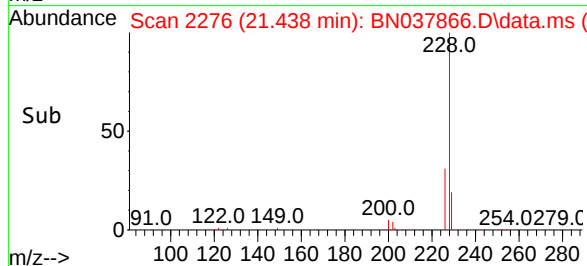
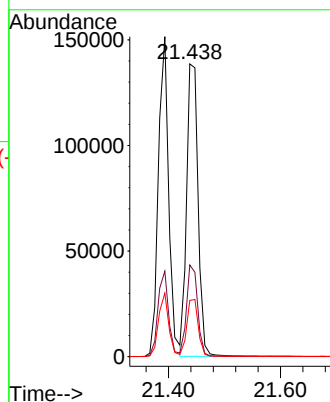
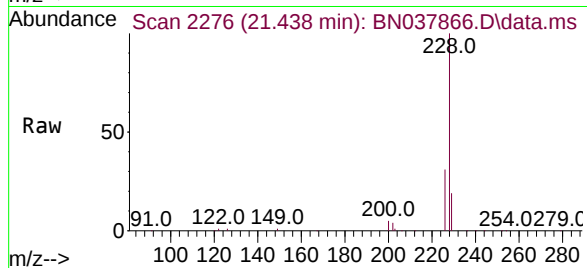
Tgt Ion:228 Resp: 197283

Ion Ratio Lower Upper

228 100

226 31.3 24.6 37.0

229 19.2 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 3.291 ng

RT: 21.331 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

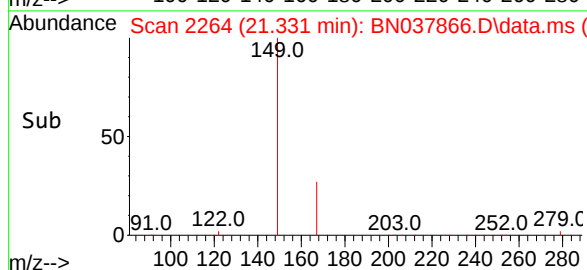
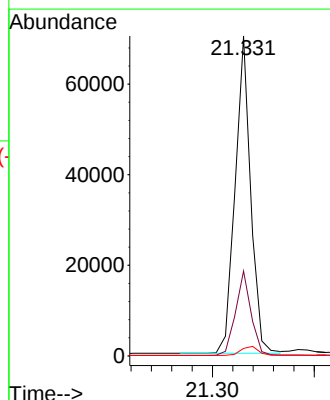
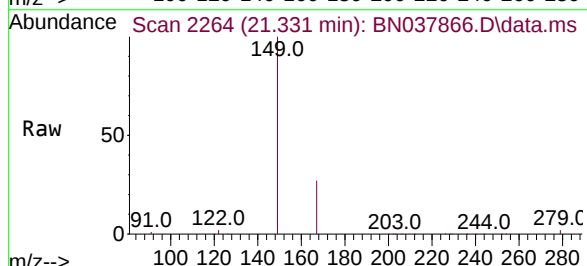
Tgt Ion:149 Resp: 74195

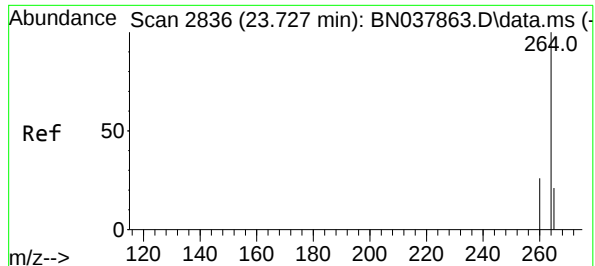
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

279 3.2 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 2839

Delta R.T. 0.009 min

Lab File: BN037866.D

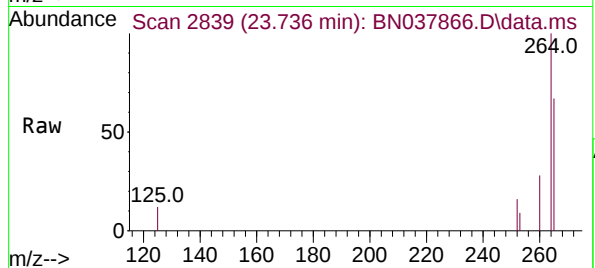
Acq: 23 Sep 2025 15:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2



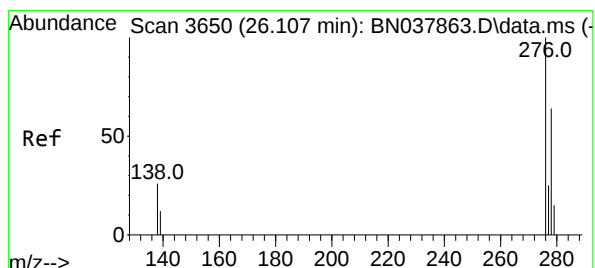
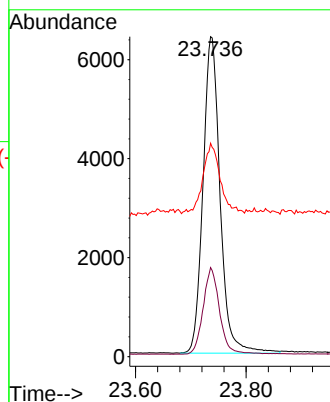
Tgt Ion:264 Resp: 13684

Ion Ratio Lower Upper

264 100

260 27.8 21.5 32.3

265 66.7 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.494 ng

RT: 26.118 min Scan# 3654

Delta R.T. 0.012 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

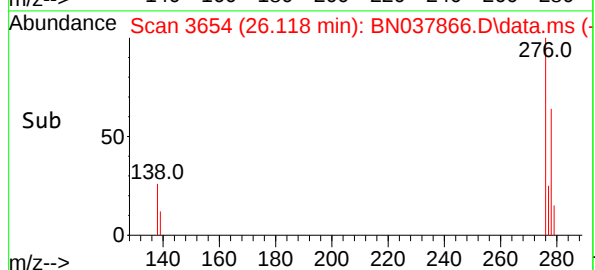
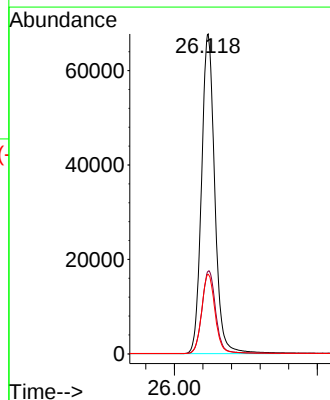
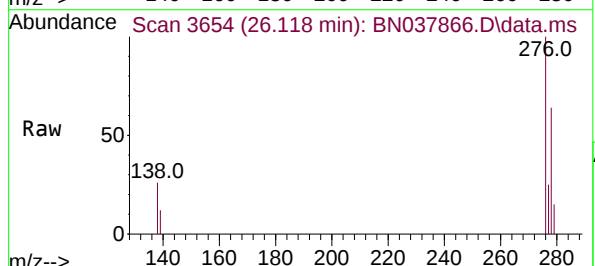
Tgt Ion:276 Resp: 218487

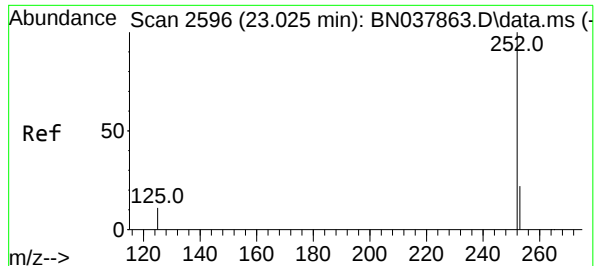
Ion Ratio Lower Upper

276 100

138 26.7 21.4 32.0

277 25.1 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 3.428 ng

RT: 23.031 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

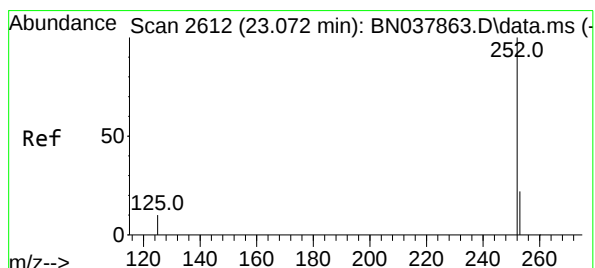
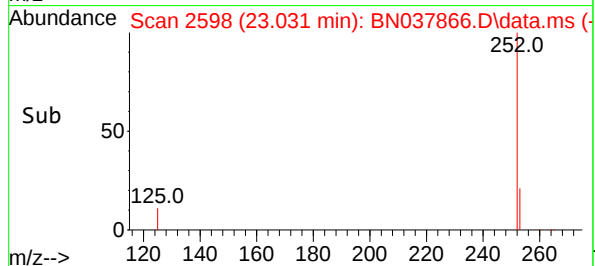
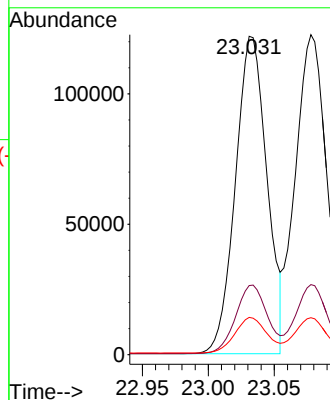
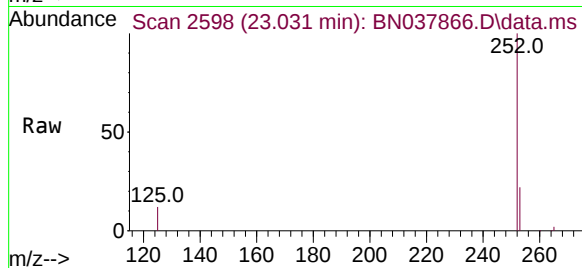
Tgt Ion:252 Resp: 202282

Ion Ratio Lower Upper

252 100

253 21.7 19.4 29.0

125 11.7 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 3.534 ng

RT: 23.078 min Scan# 2614

Delta R.T. 0.006 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

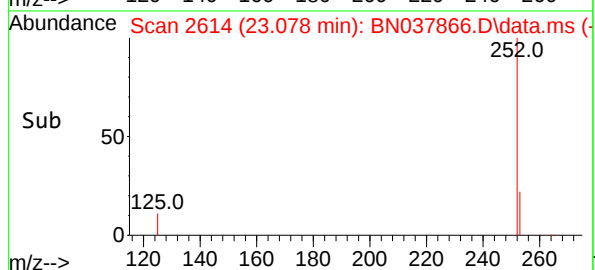
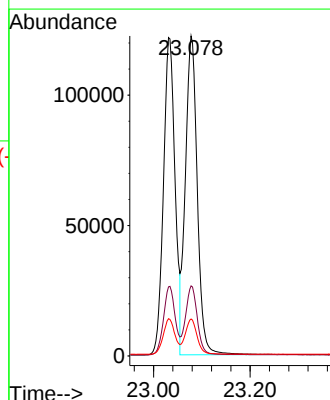
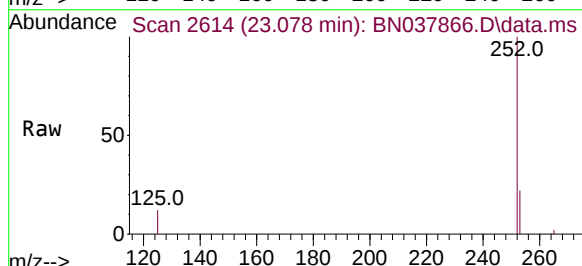
Tgt Ion:252 Resp: 209819

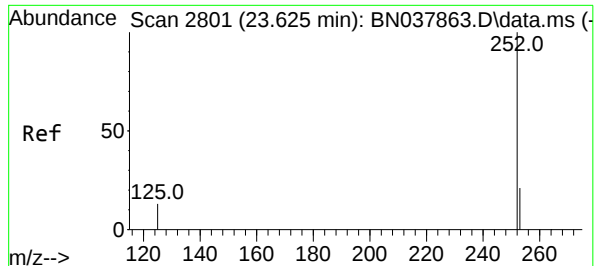
Ion Ratio Lower Upper

252 100

253 21.9 19.5 29.3

125 11.5 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 3.499 ng

RT: 23.636 min Scan# 2805

Delta R.T. 0.012 min

Lab File: BN037866.D

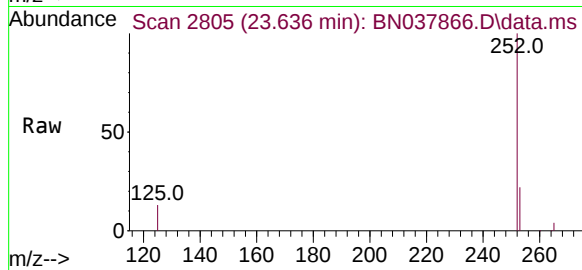
Acq: 23 Sep 2025 15:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2



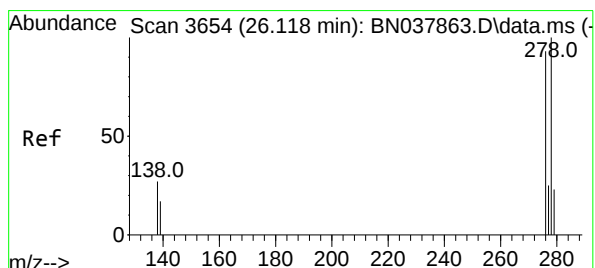
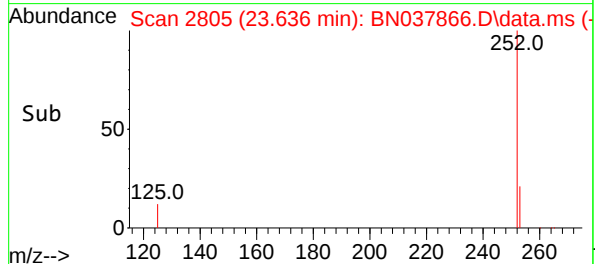
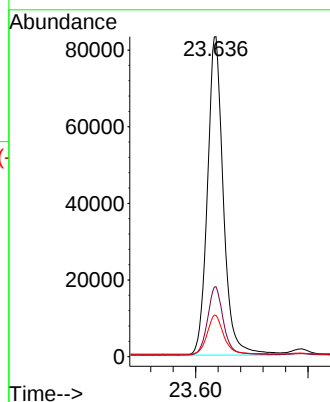
Tgt Ion:252 Resp: 163321

Ion Ratio Lower Upper

252 100

253 21.8 20.6 30.8

125 12.9 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 3.558 ng

RT: 26.133 min Scan# 3659

Delta R.T. 0.015 min

Lab File: BN037866.D

Acq: 23 Sep 2025 15:15

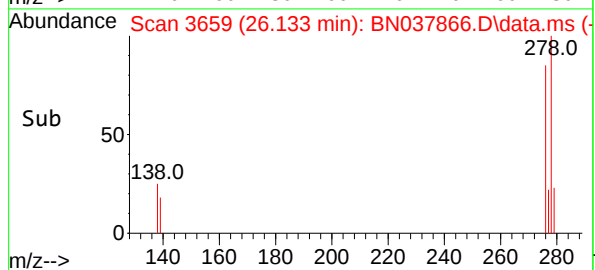
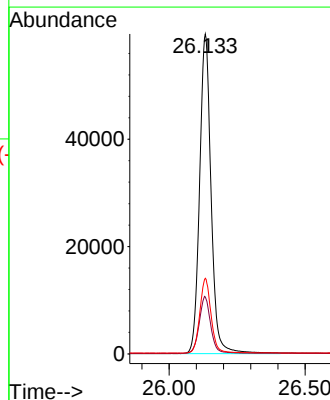
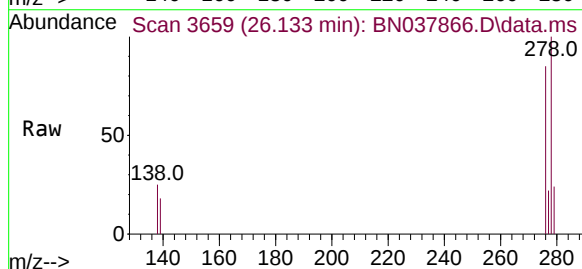
Tgt Ion:278 Resp: 173724

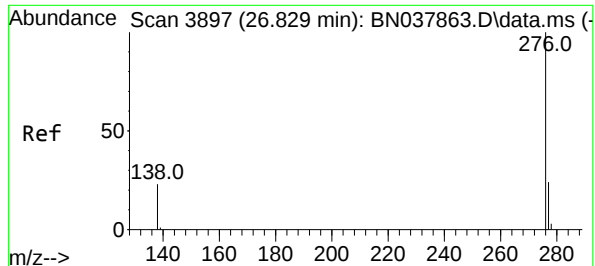
Ion Ratio Lower Upper

278 100

139 17.8 15.4 23.2

279 23.6 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 3.443 ng

RT: 26.841 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037866.D

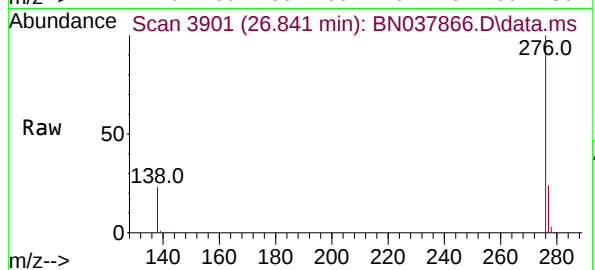
Acq: 23 Sep 2025 15:15

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2



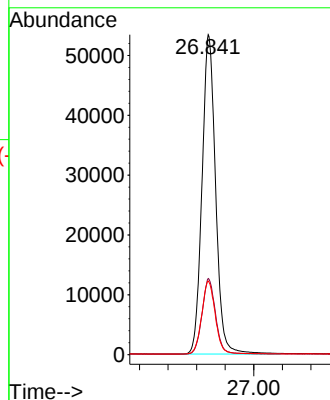
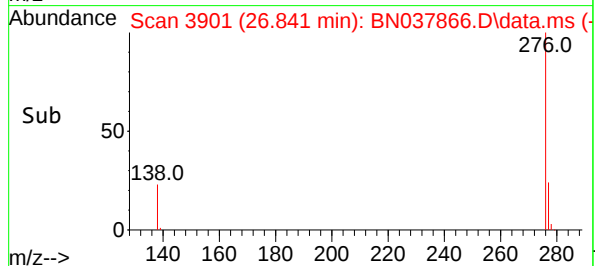
Tgt Ion:276 Resp: 176617

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 23.0 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
 Data File : BN037867.D  
 Acq On : 23 Sep 2025 15:51  
 Operator : RC/JU  
 Sample : SSTDICC5.0  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

Quant Time: Sep 23 16:23:34 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Tue Sep 23 16:17:53 2025  
 Response via : Initial Calibration

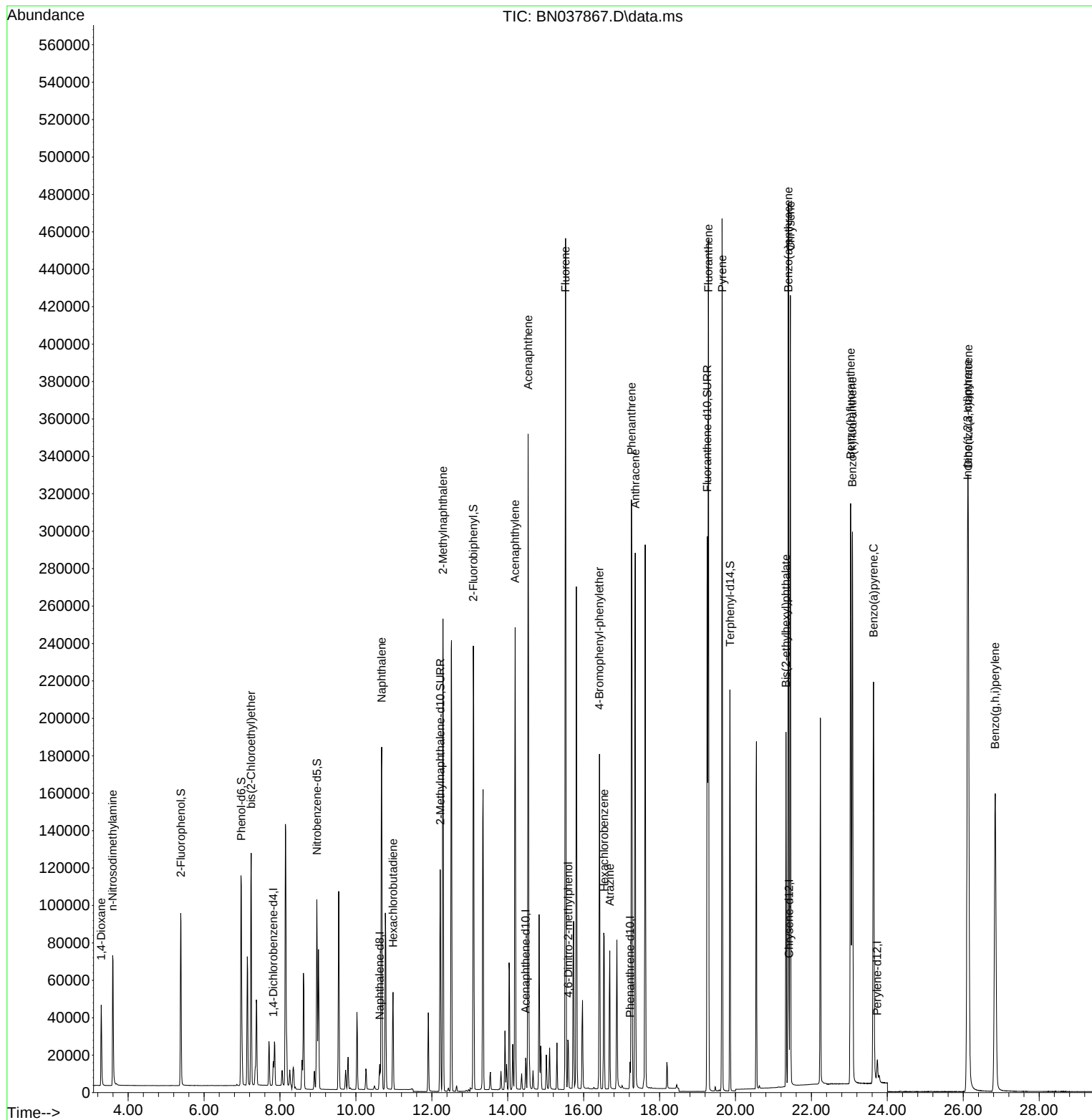
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.825  | 152  | 6080     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.626 | 136  | 17301    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.473 | 164  | 9570     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.223 | 188  | 17948    | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.411 | 240  | 18531    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.736 | 264  | 15649    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.392  | 112  | 75850    | 5.467 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.980  | 99   | 102802   | 5.639 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.971  | 82   | 73146    | 5.543 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.222 | 152  | 154332   | 6.422 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 0.000  | 330  | 0d       | 0.000 | ng    |          |
| 15) 2-Fluorobiphenyl          | 13.094 | 172  | 210748   | 5.379 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.257 | 212  | 307332   | 6.807 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.856 | 244  | 206917   | 5.606 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.290  | 88   | 28576    | 4.630 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.593  | 42   | 41574    | 5.063 | ng    | # 92     |
| 6) bis(2-Chloroethyl)ether    | 7.240  | 93   | 86881    | 5.134 | ng    | 99       |
| 9) Naphthalene                | 10.680 | 128  | 250883   | 5.264 | ng    | 98       |
| 10) Hexachlorobutadiene       | 10.979 | 225  | 40670    | 5.003 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.293 | 142  | 173335   | 5.567 | ng    | 99       |
| 16) Acenaphthylene            | 14.195 | 152  | 250496   | 5.765 | ng    | 100      |
| 17) Acenaphthene              | 14.537 | 154  | 171955   | 5.554 | ng    | 94       |
| 18) Fluorene                  | 15.522 | 166  | 209070   | 5.583 | ng    | 97       |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198  | 18771    | 4.997 | ng    | # 59     |
| 21) 4-Bromophenyl-phenylether | 16.416 | 248  | 65230    | 5.577 | ng    | 92       |
| 22) Hexachlorobenzene         | 16.540 | 284  | 74475    | 5.252 | ng    | 99       |
| 23) Atrazine                  | 16.689 | 200  | 55972    | 6.284 | ng    | 96       |
| 25) Phenanthrene              | 17.260 | 178  | 325691   | 5.514 | ng    | 99       |
| 26) Anthracene                | 17.359 | 178  | 305295   | 5.958 | ng    | 100      |
| 28) Fluoranthene              | 19.285 | 202  | 384292   | 5.908 | ng    | 99       |
| 30) Pyrene                    | 19.647 | 202  | 388849   | 5.315 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.393 | 228  | 362927   | 5.604 | ng    | 98       |
| 33) Chrysene                  | 21.447 | 228  | 363421   | 5.189 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149  | 156492   | 6.109 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.115 | 276  | 422337   | 5.906 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 23.034 | 252  | 387512   | 5.742 | ng    | # 93     |
| 38) Benzo(k)fluoranthene      | 23.081 | 252  | 376732   | 5.548 | ng    | # 92     |
| 39) Benzo(a)pyrene            | 23.636 | 252  | 314913   | 5.900 | ng    | # 88     |
| 40) Dibenzo(a,h)anthracene    | 26.133 | 278  | 333427   | 5.971 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 26.840 | 276  | 346868   | 5.913 | ng    | 96       |

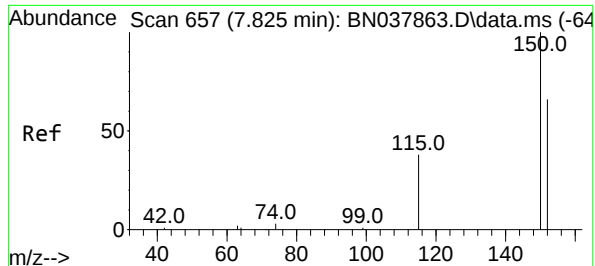
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
Data File : BN037867.D  
Acq On : 23 Sep 2025 15:51  
Operator : RC/JU  
Sample : SSTDICC5.0  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Quant Time: Sep 23 16:23:34 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Sep 23 16:17:53 2025  
Response via : Initial Calibration

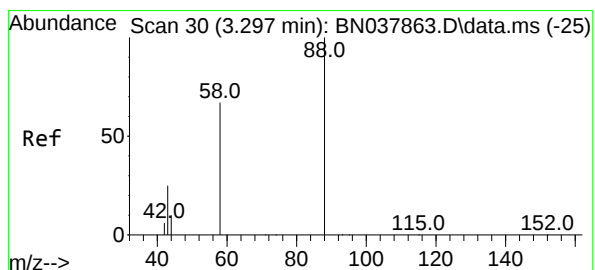
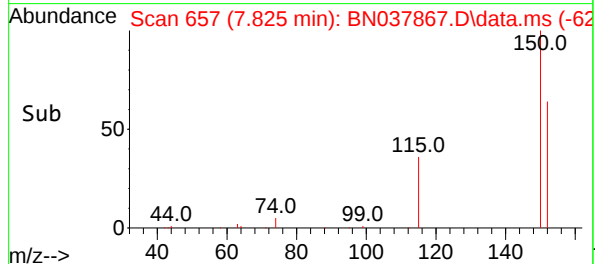
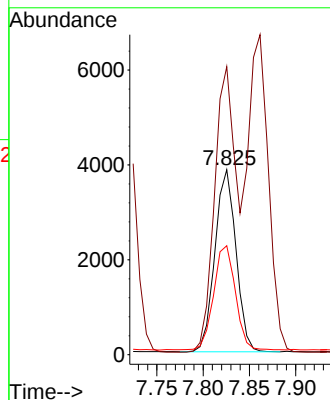
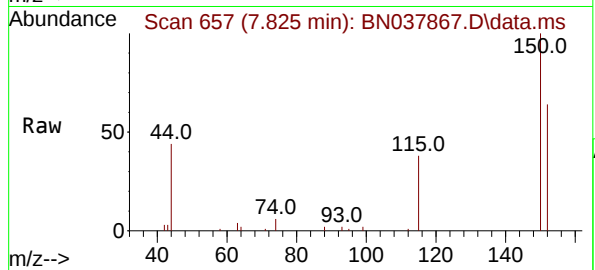




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.825 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

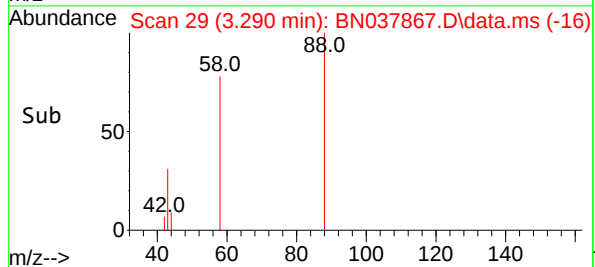
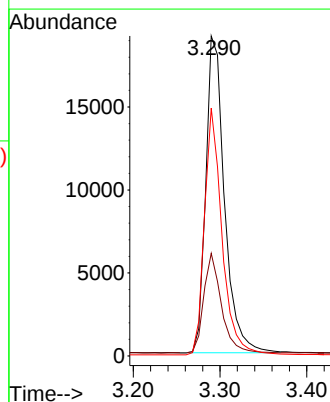
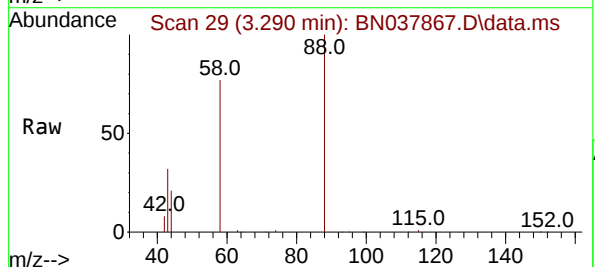
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

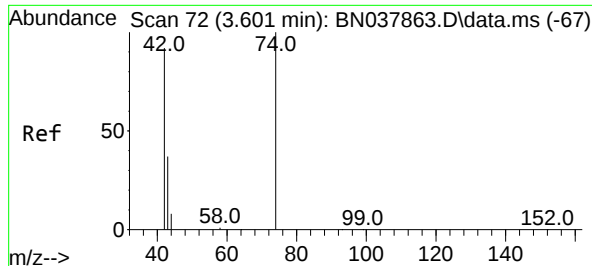
Tgt Ion:152 Resp: 6080  
Ion Ratio Lower Upper  
152 100  
150 155.7 121.0 181.4  
115 58.9 47.4 71.0



#2  
1,4-Dioxane  
Concen: 4.630 ng  
RT: 3.290 min Scan# 29  
Delta R.T. -0.007 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

Tgt Ion: 88 Resp: 28576  
Ion Ratio Lower Upper  
88 100  
43 29.8 26.6 39.8  
58 73.3 58.9 88.3

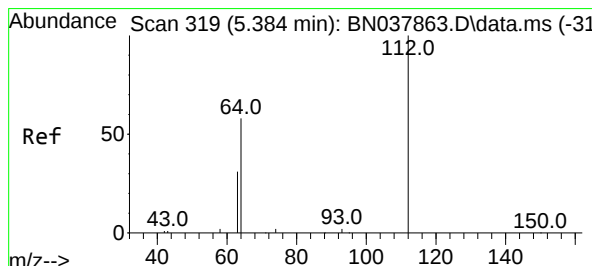
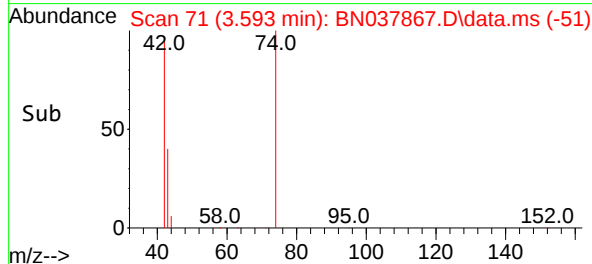
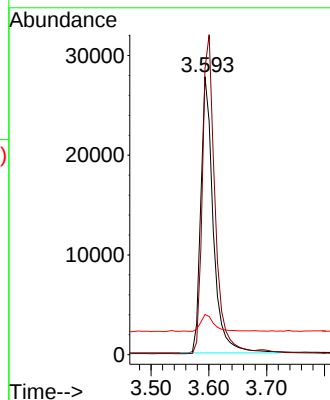
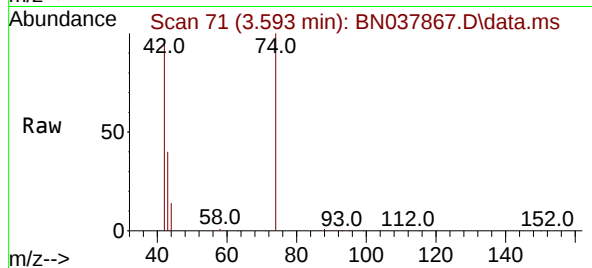




#3  
n-Nitrosodimethylamine  
Concen: 5.063 ng  
RT: 3.593 min Scan# 71  
Delta R.T. -0.007 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

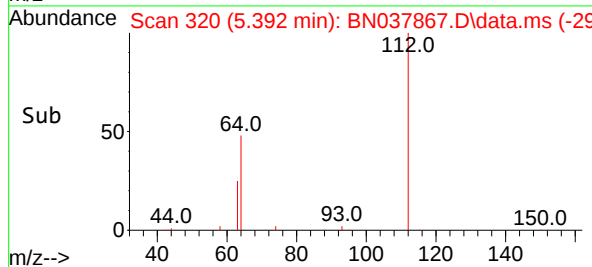
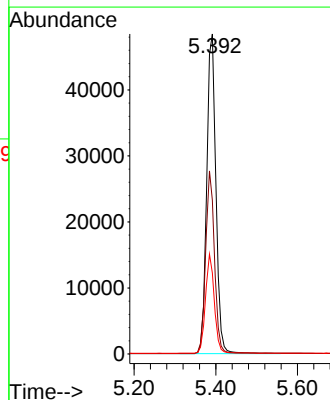
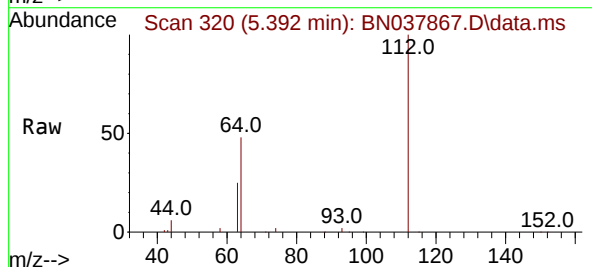
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

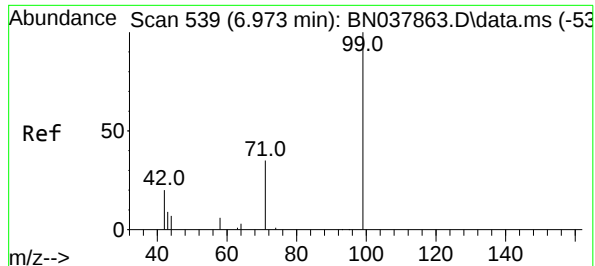
Tgt Ion: 42 Resp: 41574  
Ion Ratio Lower Upper  
42 100  
74 117.0 93.4 140.0  
44 6.5 22.2 33.4#



#4  
2-Fluorophenol  
Concen: 5.467 ng  
RT: 5.392 min Scan# 320  
Delta R.T. 0.007 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

Tgt Ion: 112 Resp: 75850  
Ion Ratio Lower Upper  
112 100  
64 55.3 44.6 66.8  
63 29.7 24.9 37.3





#5

Phenol-d6

Concen: 5.639 ng

RT: 6.980 min Scan# 54

Delta R.T. 0.007 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

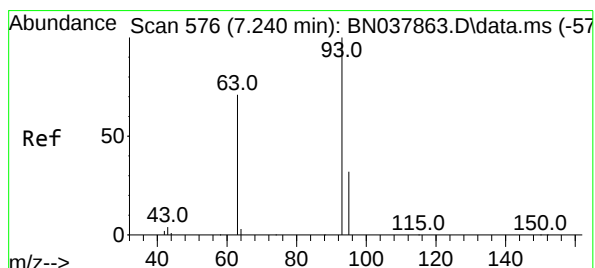
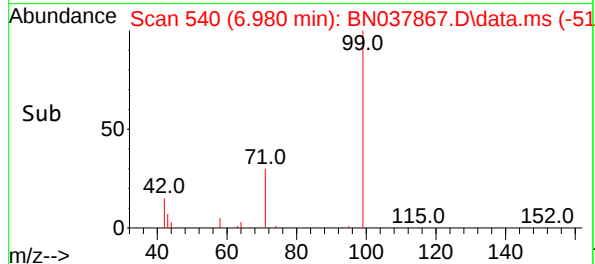
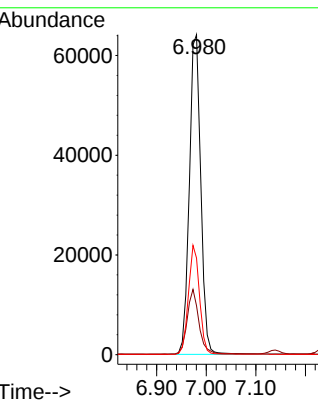
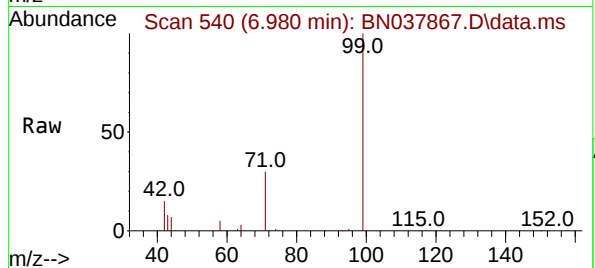
Tgt Ion: 99 Resp: 102802

Ion Ratio Lower Upper

99 100

42 20.6 17.2 25.8

71 33.3 27.3 40.9



#6

bis(2-Chloroethyl)ether

Concen: 5.134 ng

RT: 7.240 min Scan# 576

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

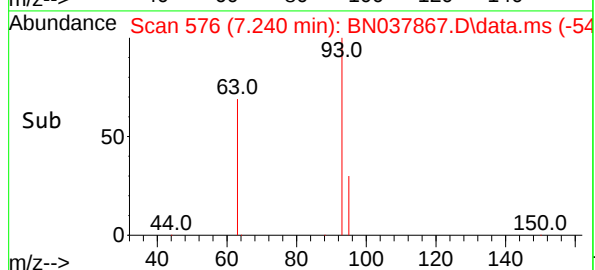
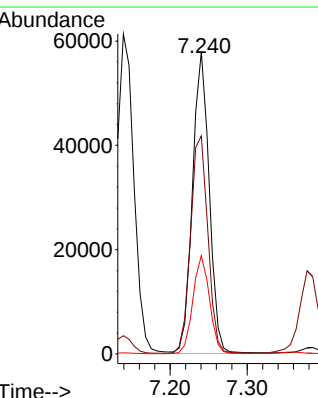
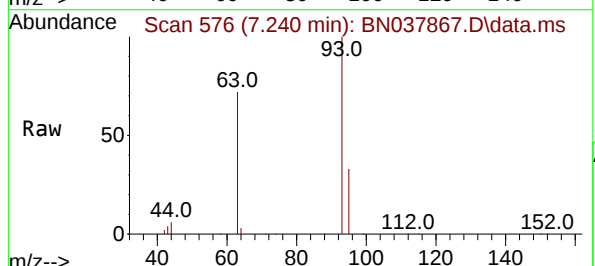
Tgt Ion: 93 Resp: 86881

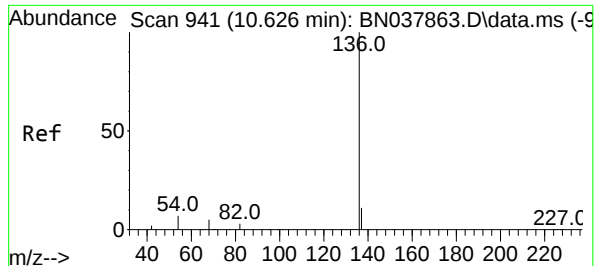
Ion Ratio Lower Upper

93 100

63 74.6 60.1 90.1

95 32.2 25.4 38.2

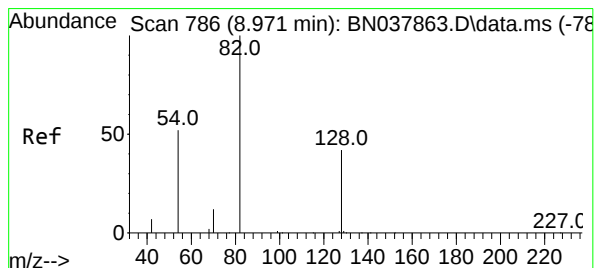
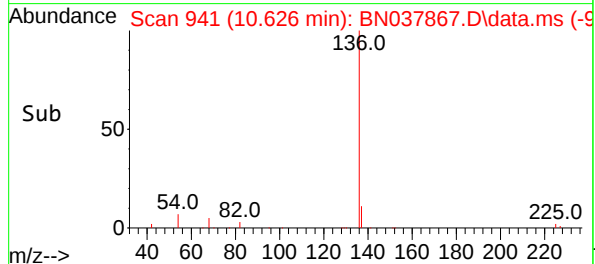
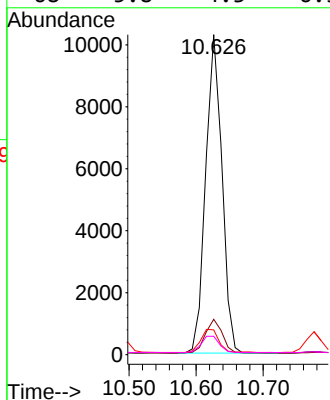
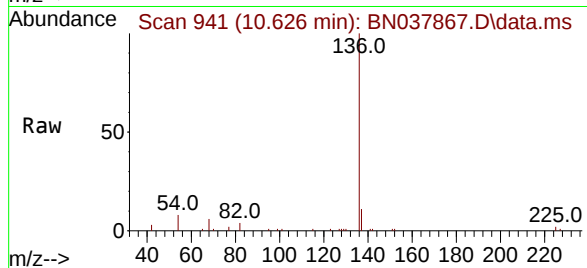




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.626 min Scan# 941  
Delta R.T. -0.000 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

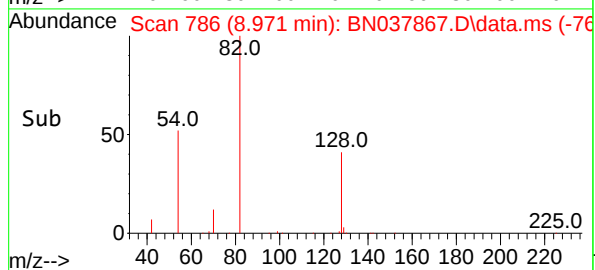
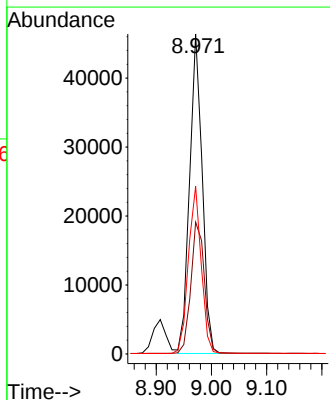
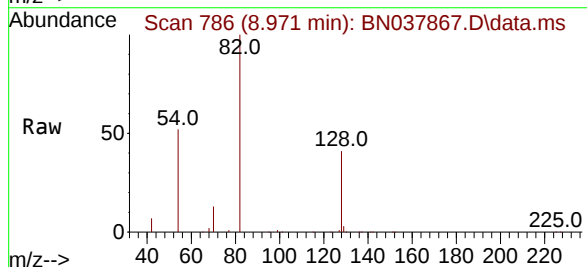
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

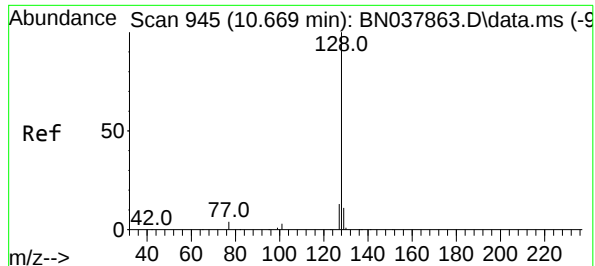
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 17301 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.0  | 9.0   | 13.4  |
| 54       | 7.8   | 5.8   | 8.8   |
| 68       | 5.8   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 5.543 ng  
RT: 8.971 min Scan# 786  
Delta R.T. -0.000 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 73146 |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 41.2  | 34.8  | 52.2  |
| 54       | 52.4  | 42.2  | 63.2  |

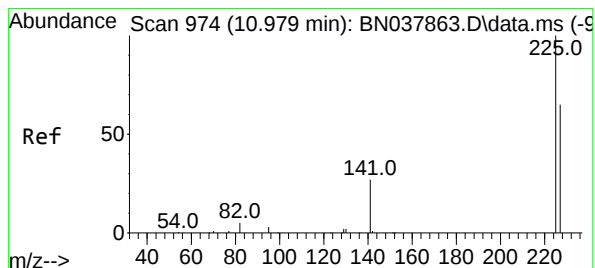
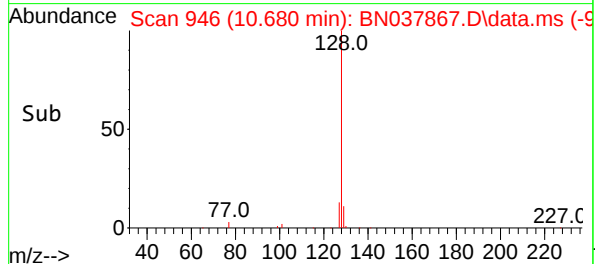
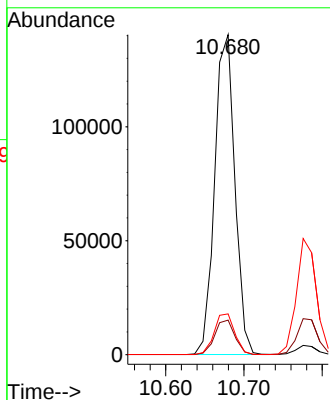
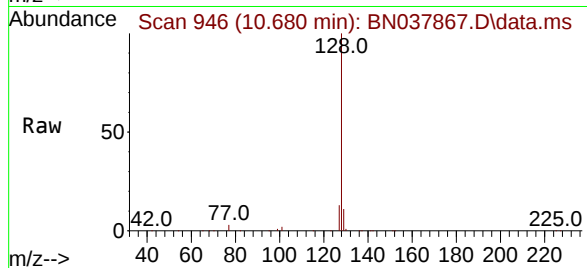




#9  
Naphthalene  
Concen: 5.264 ng  
RT: 10.680 min Scan# 945  
Delta R.T. 0.011 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

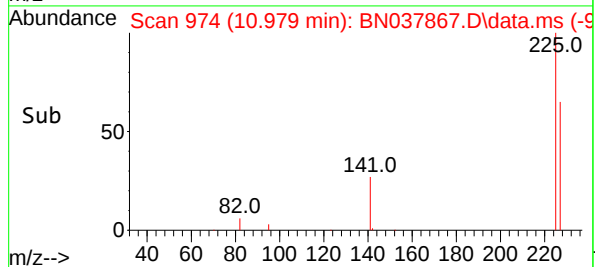
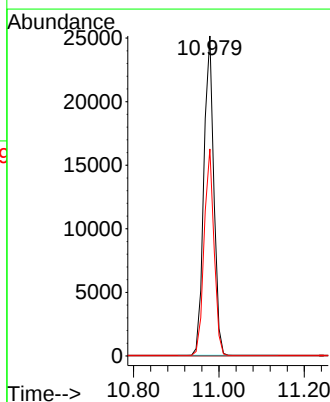
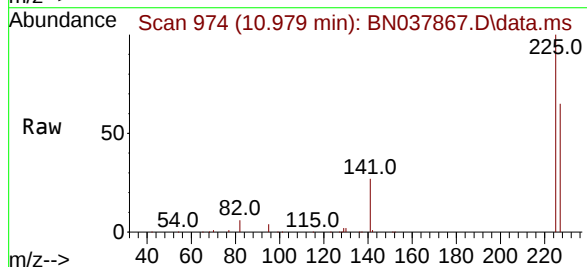
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

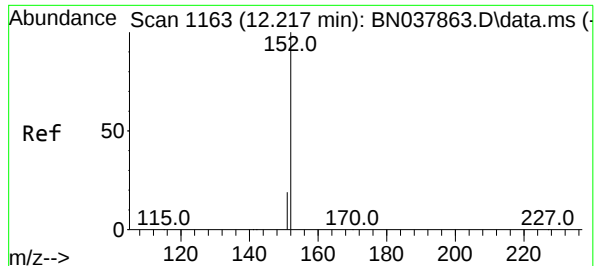
Tgt Ion:128 Resp: 250883  
Ion Ratio Lower Upper  
128 100  
129 10.8 9.2 13.8  
127 12.8 11.0 16.6



#10  
Hexachlorobutadiene  
Concen: 5.003 ng  
RT: 10.979 min Scan# 974  
Delta R.T. -0.000 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

Tgt Ion:225 Resp: 40670  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.0 51.4 77.2

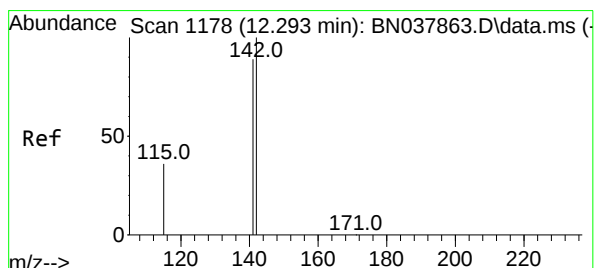
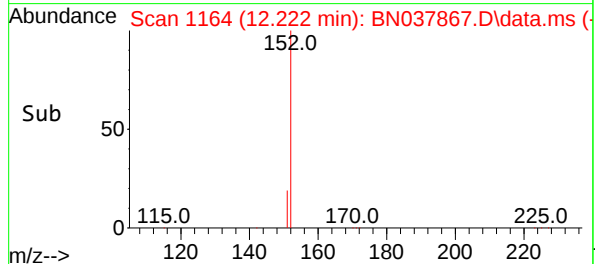
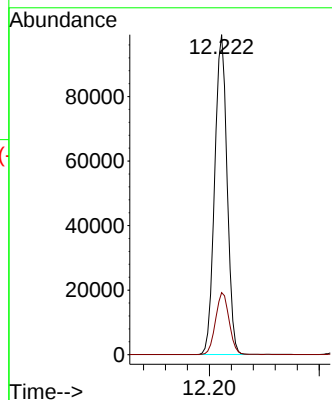
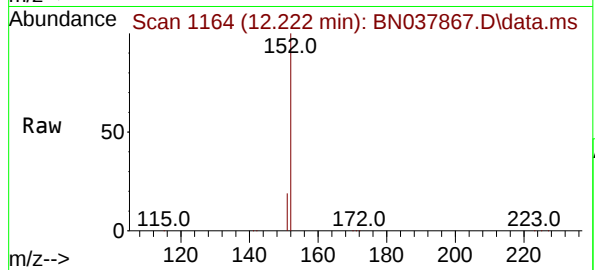




#11  
2-Methylnaphthalene-d10  
Concen: 6.422 ng  
RT: 12.222 min Scan# 1164  
Delta R.T. 0.005 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

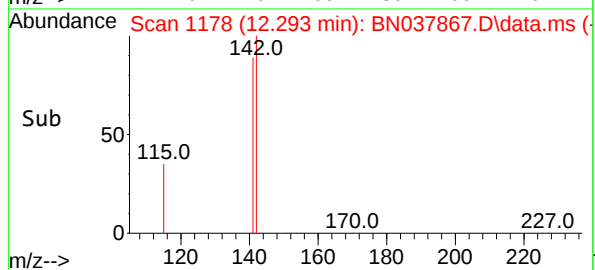
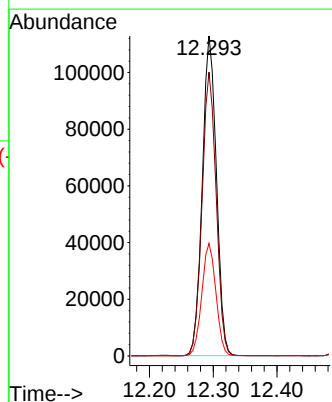
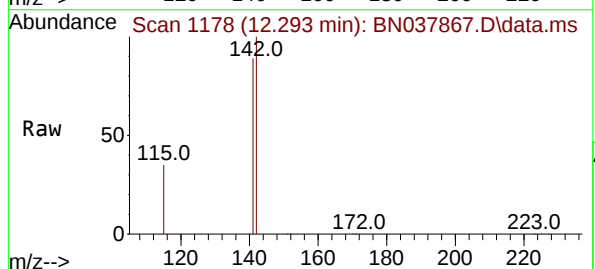
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

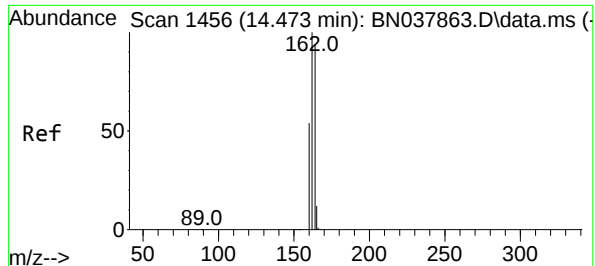
Tgt Ion:152 Resp: 154332  
Ion Ratio Lower Upper  
152 100  
151 21.2 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 5.567 ng  
RT: 12.293 min Scan# 1178  
Delta R.T. -0.000 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

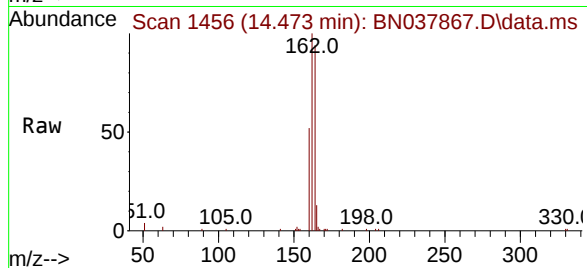
Tgt Ion:142 Resp: 173335  
Ion Ratio Lower Upper  
142 100  
141 88.7 71.2 106.8  
115 35.2 29.7 44.5



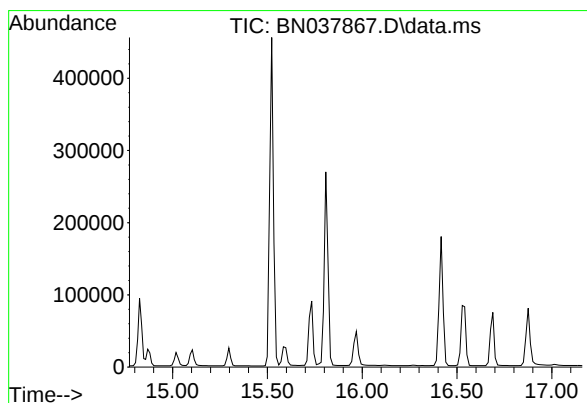
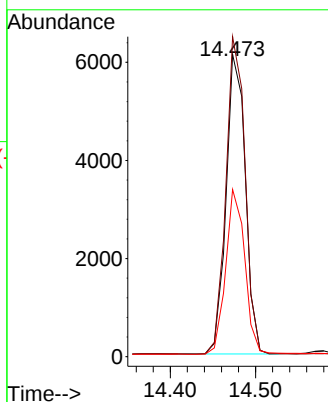
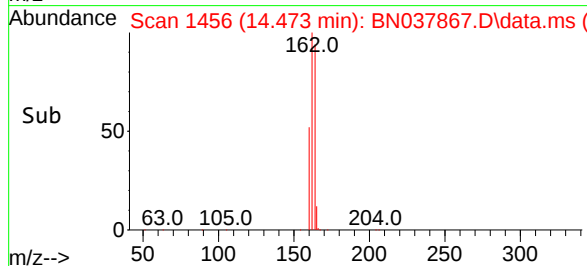


#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.473 min Scan# 14  
Delta R.T. -0.000 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0



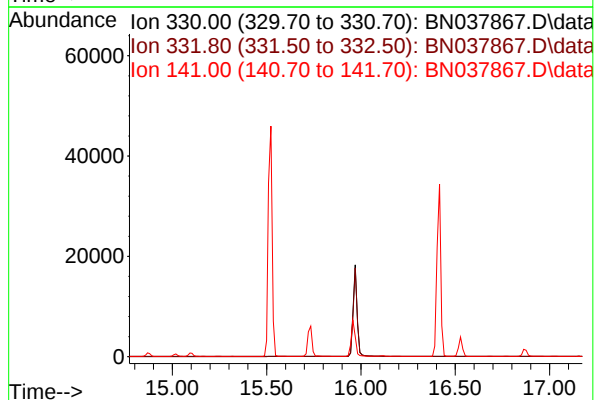
Tgt Ion:164 Resp: 9570  
Ion Ratio Lower Upper  
164 100  
162 105.9 84.8 127.2  
160 55.3 46.1 69.1

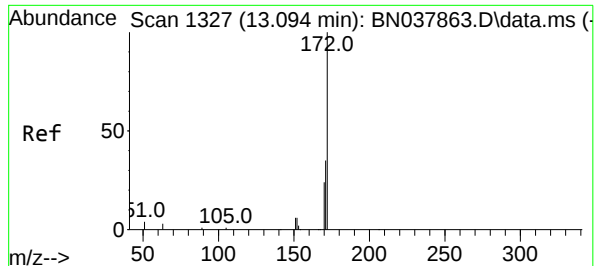


#14  
2,4,6-Tribromophenol  
Concen: 0.000 ng  
Expected RT: 15.97 min

Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

Tgt Ion: 330  
Sig Exp Ratio  
330 100  
332 96.5  
141 46.5





#15

2-Fluorobiphenyl

Concen: 5.379 ng

RT: 13.094 min Scan# 11

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

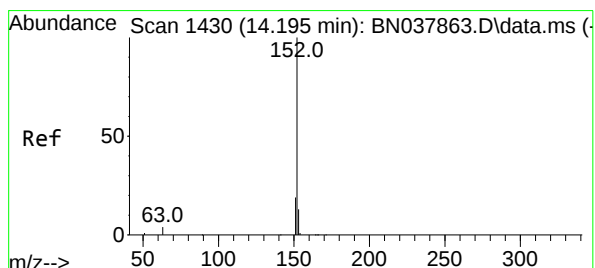
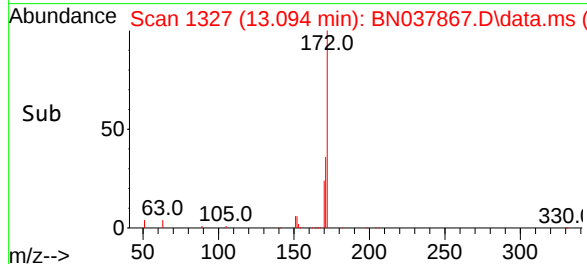
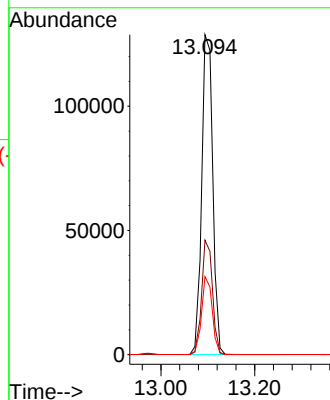
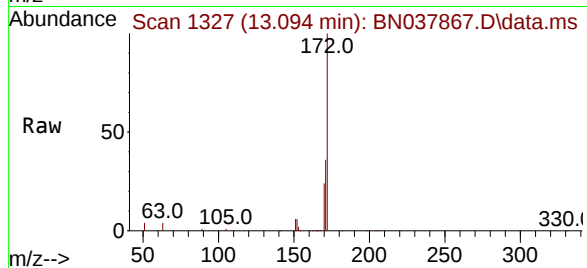
Tgt Ion:172 Resp: 210748

Ion Ratio Lower Upper

172 100

171 35.8 28.6 43.0

170 24.4 19.7 29.5



#16

Acenaphthylene

Concen: 5.765 ng

RT: 14.195 min Scan# 1430

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

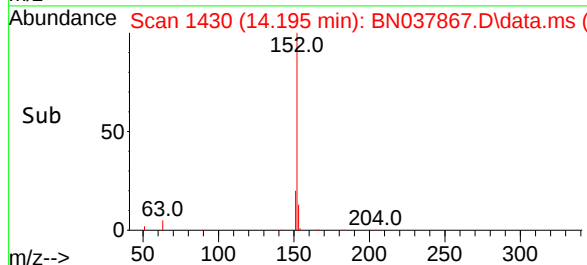
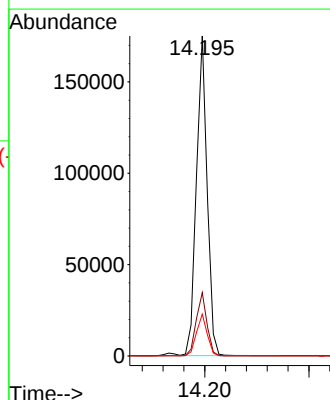
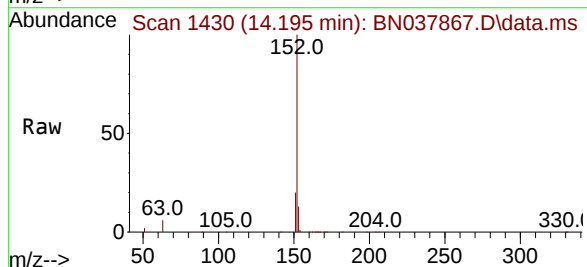
Tgt Ion:152 Resp: 250496

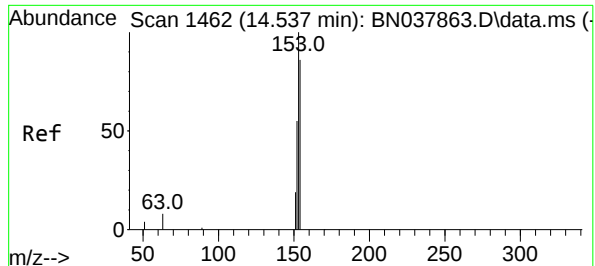
Ion Ratio Lower Upper

152 100

151 19.8 15.8 23.8

153 13.1 10.5 15.7





#17

Acenaphthene

Concen: 5.554 ng

RT: 14.537 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

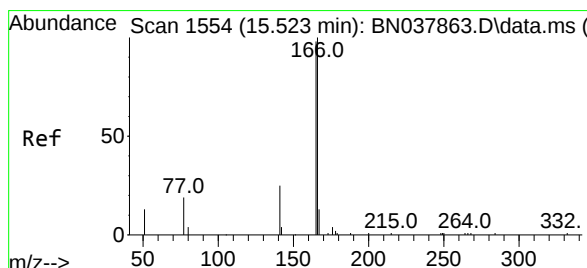
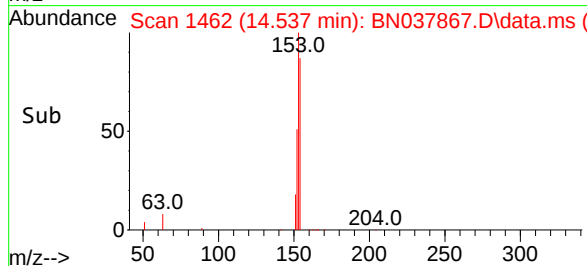
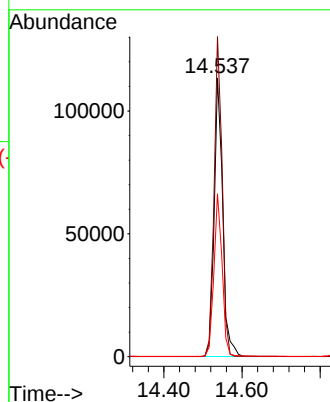
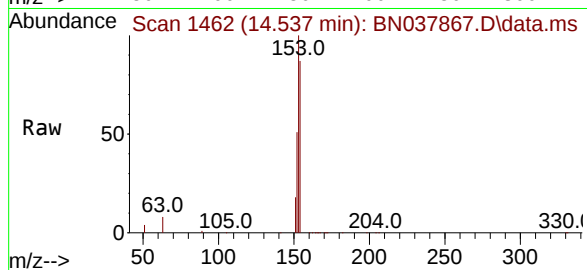
Tgt Ion:154 Resp: 171955

Ion Ratio Lower Upper

154 100

153 108.8 90.5 135.7

152 56.5 51.8 77.8



#18

Fluorene

Concen: 5.583 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

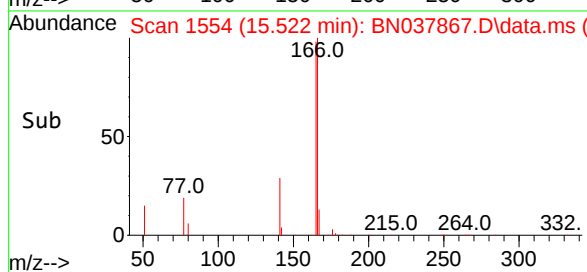
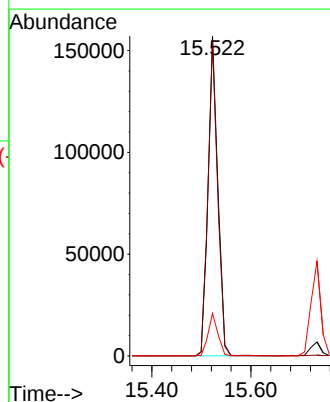
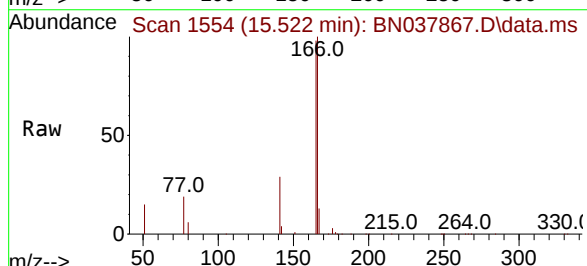
Tgt Ion:166 Resp: 209070

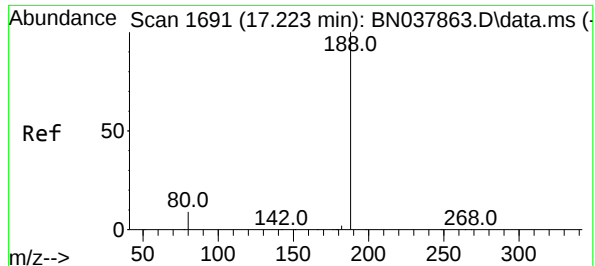
Ion Ratio Lower Upper

166 100

165 95.7 79.0 118.4

167 12.9 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

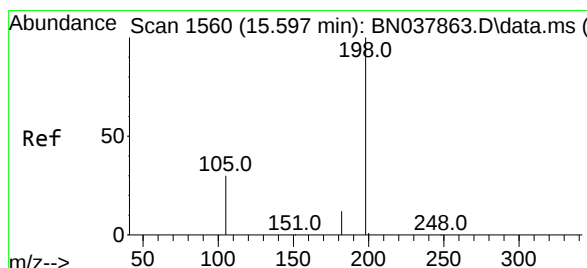
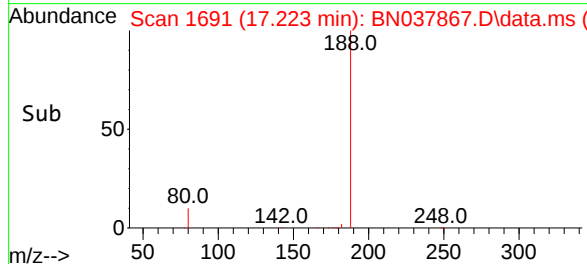
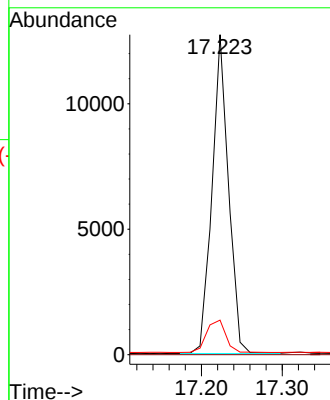
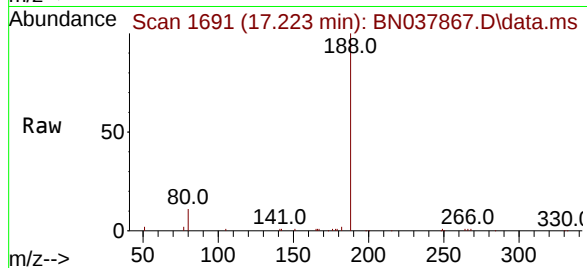
Tgt Ion:188 Resp: 17948

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 10.8 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 4.997 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

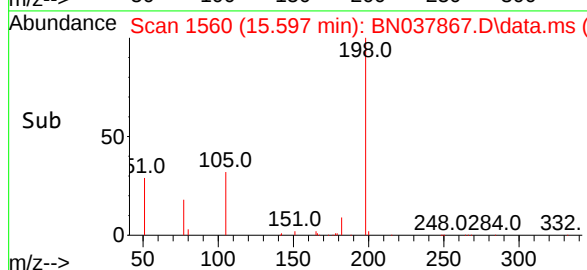
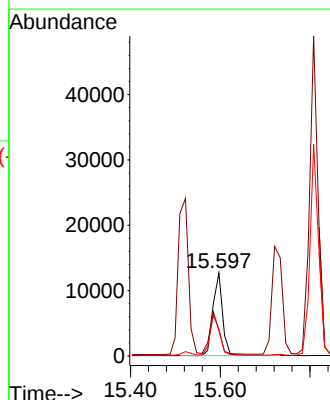
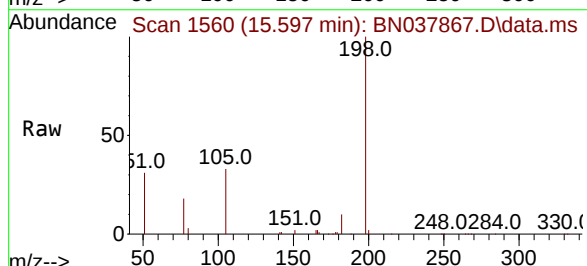
Tgt Ion:198 Resp: 18771

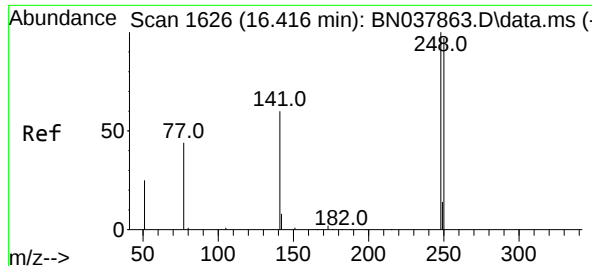
Ion Ratio Lower Upper

198 100

51 30.7 59.1 88.7#

105 32.7 41.3 61.9#

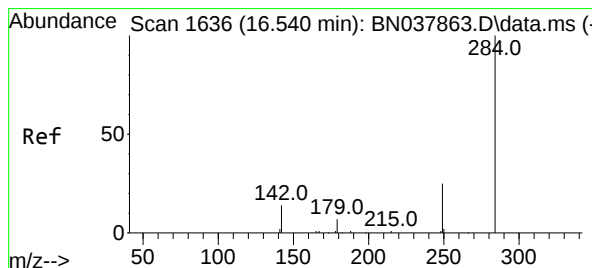
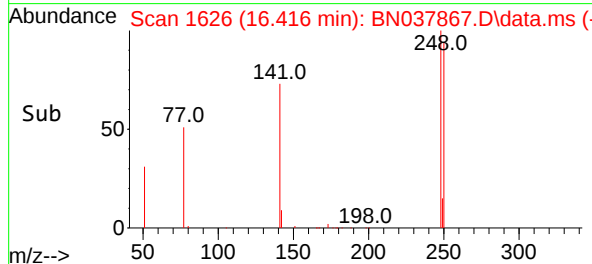
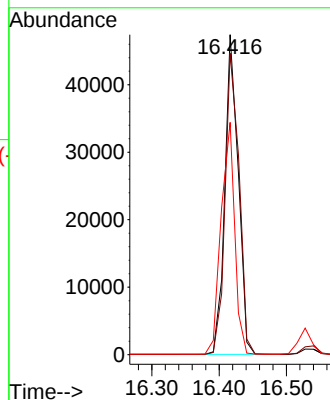
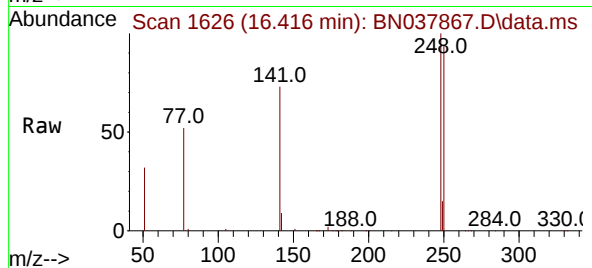




#21  
4-Bromophenyl-phenylether  
Concen: 5.577 ng  
RT: 16.416 min Scan# 1626  
Delta R.T. -0.000 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

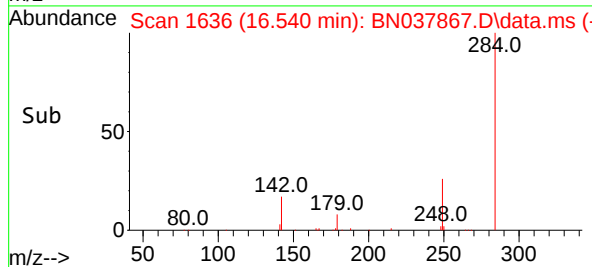
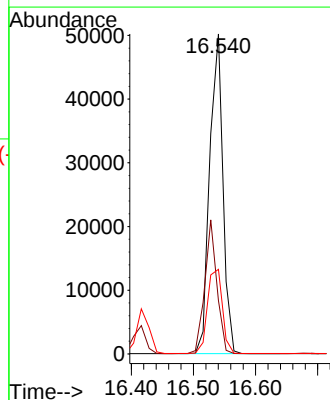
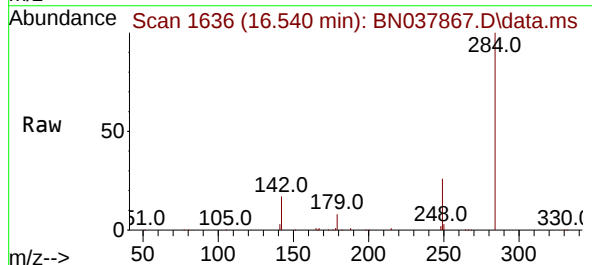
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

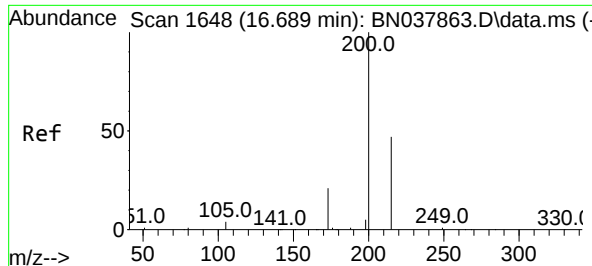
Tgt Ion:248 Resp: 65230  
Ion Ratio Lower Upper  
248 100  
250 94.2 77.6 116.4  
141 72.6 48.8 73.2



#22  
Hexachlorobenzene  
Concen: 5.252 ng  
RT: 16.540 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

Tgt Ion:284 Resp: 74475  
Ion Ratio Lower Upper  
284 100  
142 38.4 30.9 46.3  
249 29.6 23.9 35.9





#23

Atrazine

Concen: 6.284 ng

RT: 16.689 min Scan# 1648

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

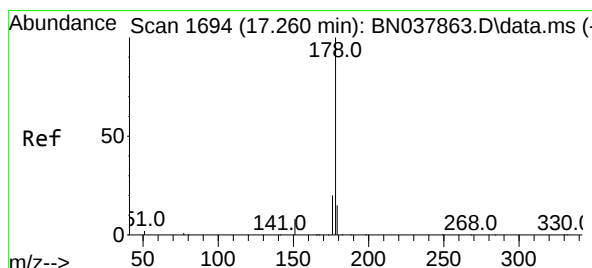
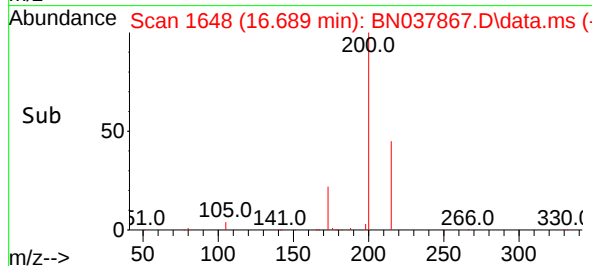
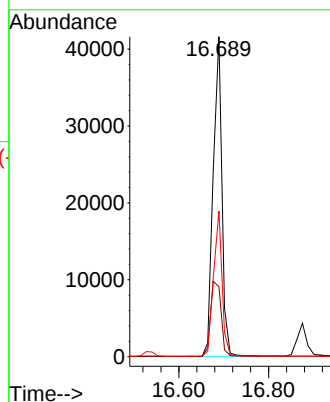
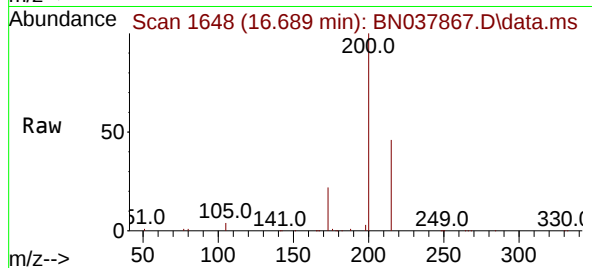
Tgt Ion:200 Resp: 55972

Ion Ratio Lower Upper

200 100

173 21.8 18.3 27.5

215 45.5 38.6 58.0



#25

Phenanthrene

Concen: 5.514 ng

RT: 17.260 min Scan# 1694

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

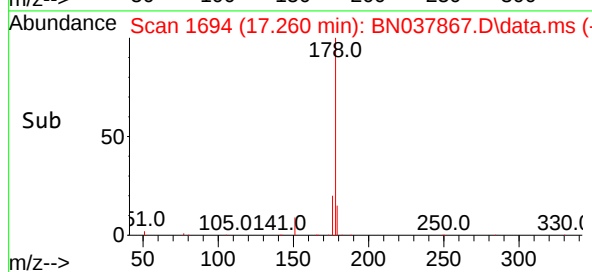
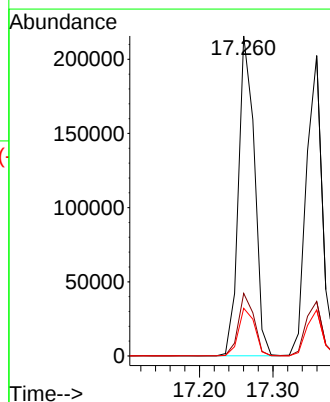
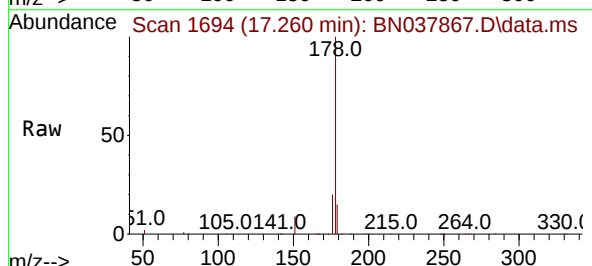
Tgt Ion:178 Resp: 325691

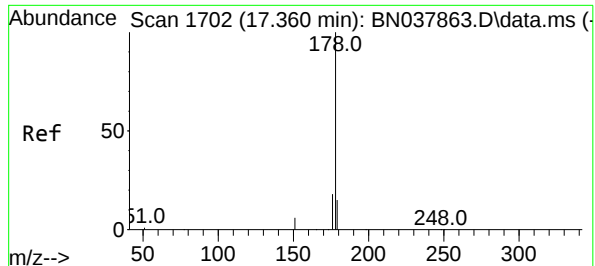
Ion Ratio Lower Upper

178 100

176 19.1 15.7 23.5

179 15.1 12.3 18.5

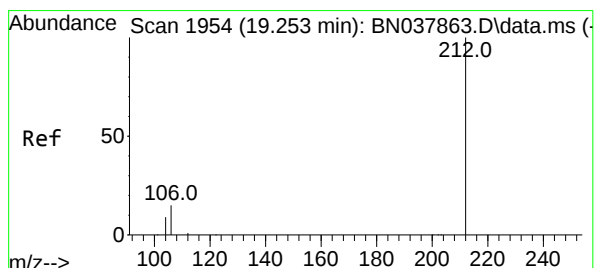
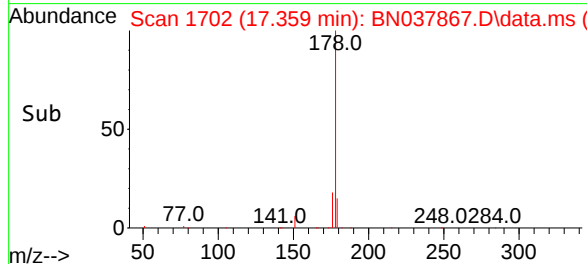
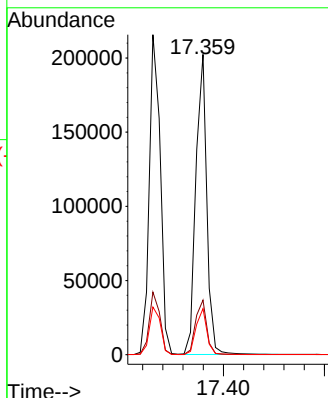
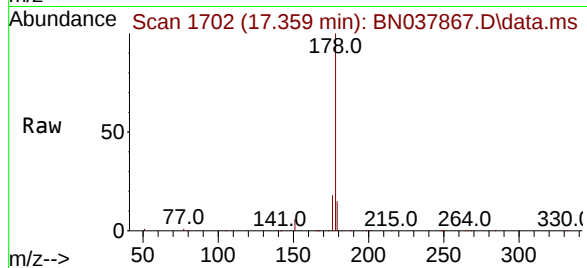




#26  
Anthracene  
Concen: 5.958 ng  
RT: 17.359 min Scan# 1702  
Delta R.T. -0.000 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

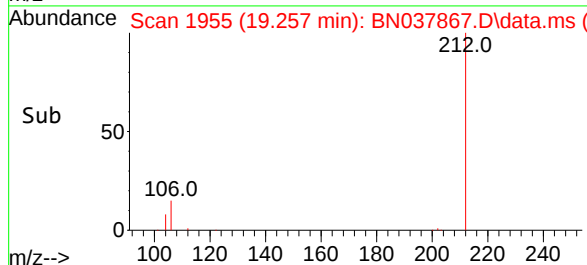
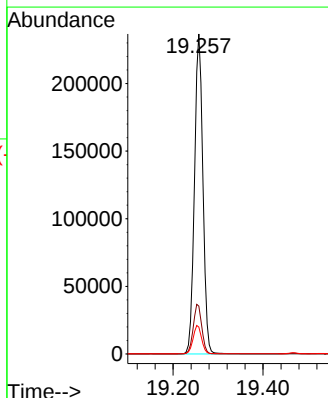
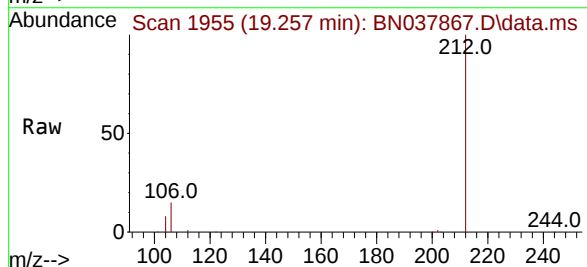
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

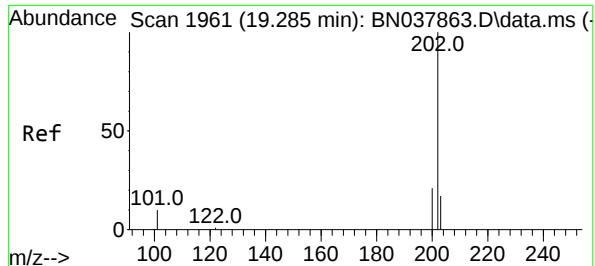
Tgt Ion:178 Resp: 305295  
Ion Ratio Lower Upper  
178 100  
176 18.6 15.0 22.4  
179 15.2 12.3 18.5



#27  
Fluoranthene-d10  
Concen: 6.807 ng  
RT: 19.257 min Scan# 1955  
Delta R.T. 0.005 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

Tgt Ion:212 Resp: 307332  
Ion Ratio Lower Upper  
212 100  
106 15.7 12.6 19.0  
104 9.0 7.4 11.0

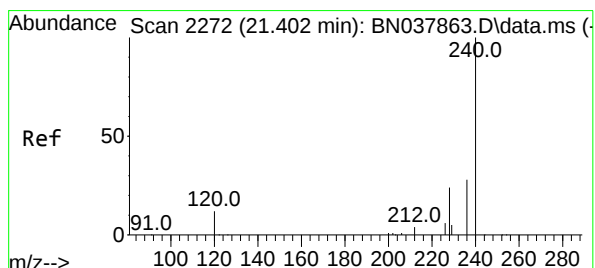
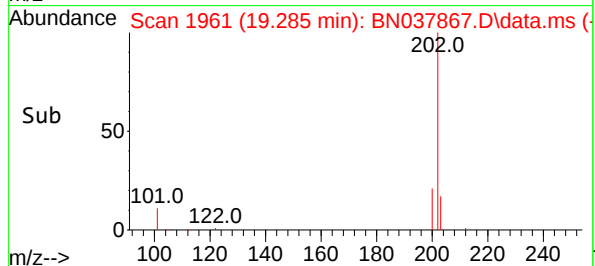
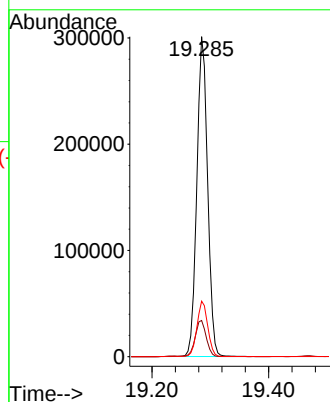
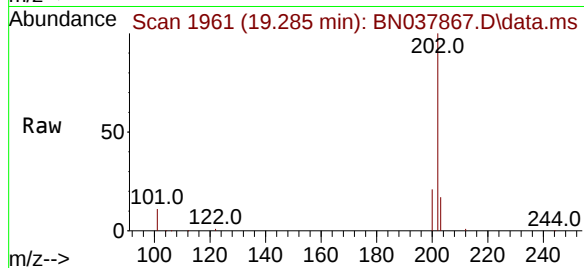




#28  
Fluoranthene  
Concen: 5.908 ng  
RT: 19.285 min Scan# 1961  
Delta R.T. -0.000 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

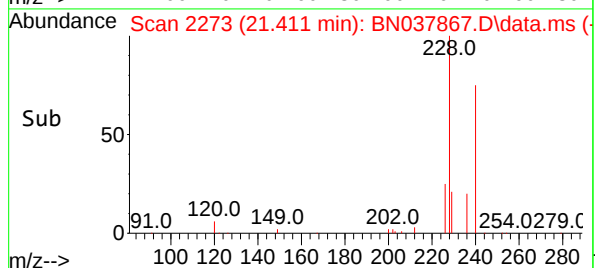
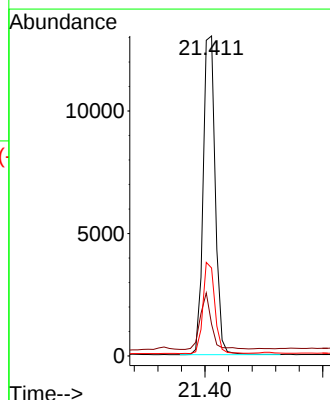
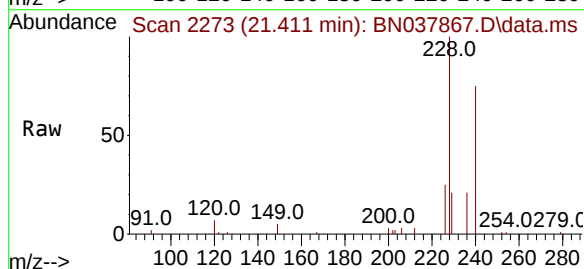
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

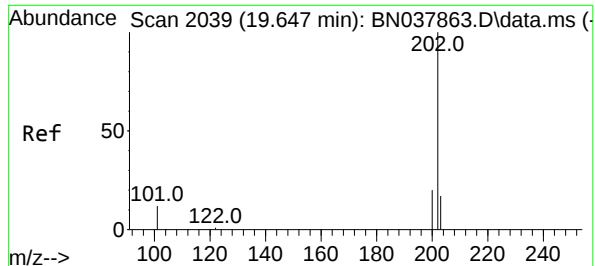
Tgt Ion:202 Resp: 384292  
Ion Ratio Lower Upper  
202 100  
101 11.7 9.3 13.9  
203 17.3 13.6 20.4



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.411 min Scan# 2273  
Delta R.T. 0.009 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

Tgt Ion:240 Resp: 18531  
Ion Ratio Lower Upper  
240 100  
120 10.0 11.4 17.2#  
236 27.5 23.0 34.6





#30

Pyrene

Concen: 5.315 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

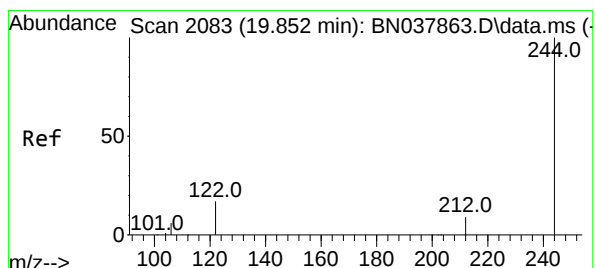
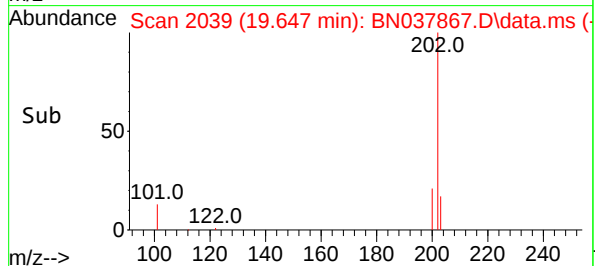
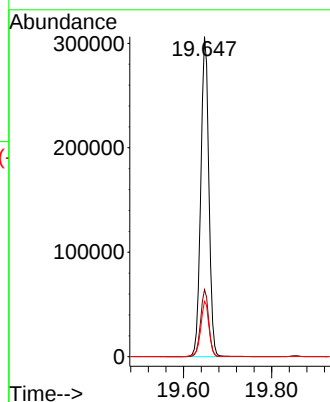
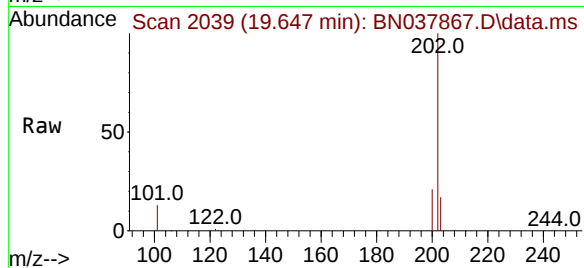
Tgt Ion:202 Resp: 388849

Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4



#31

Terphenyl-d14

Concen: 5.606 ng

RT: 19.856 min Scan# 2084

Delta R.T. 0.005 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

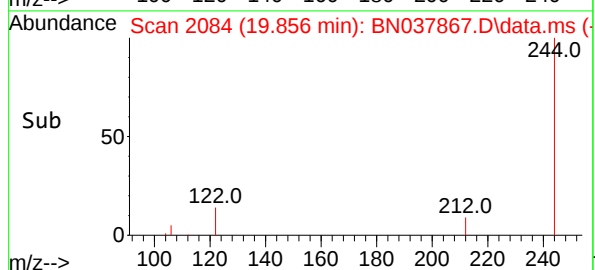
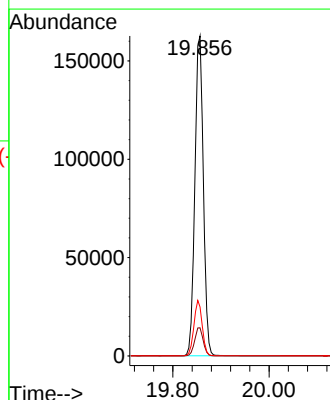
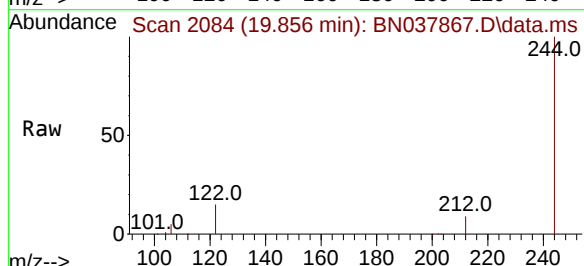
Tgt Ion:244 Resp: 206917

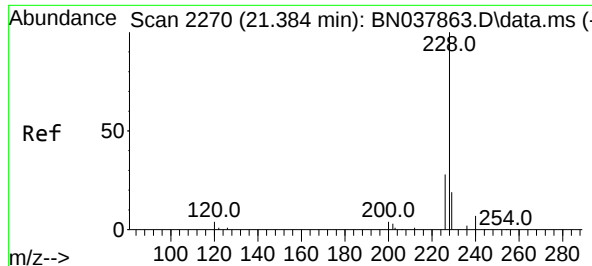
Ion Ratio Lower Upper

244 100

212 8.8 7.6 11.4

122 15.3 13.9 20.9

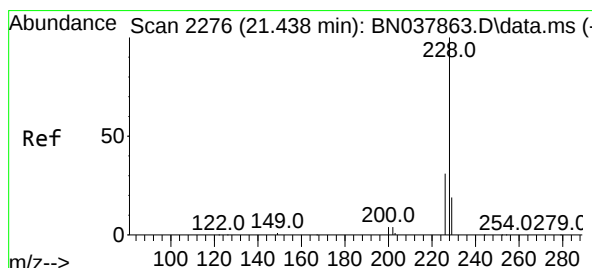
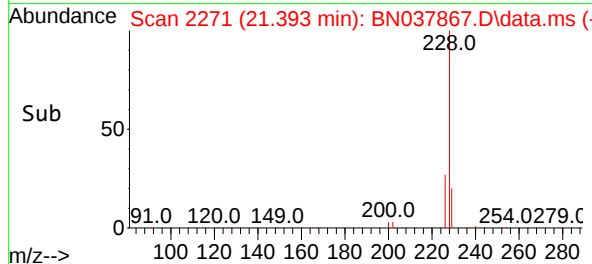
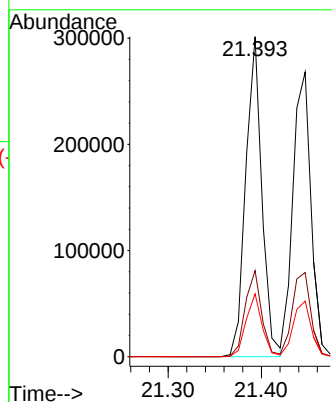
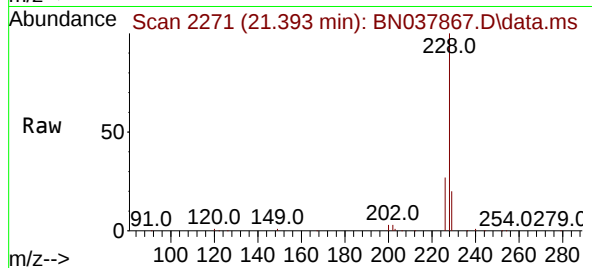




#32  
Benzo(a)anthracene  
Concen: 5.604 ng  
RT: 21.393 min Scan# 21393  
Delta R.T. 0.009 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

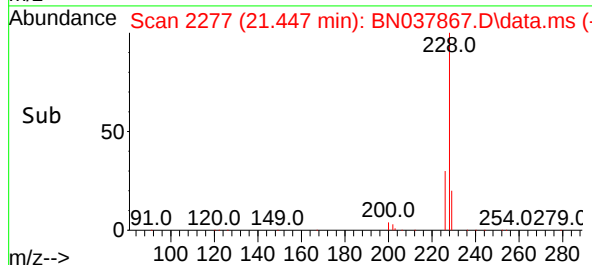
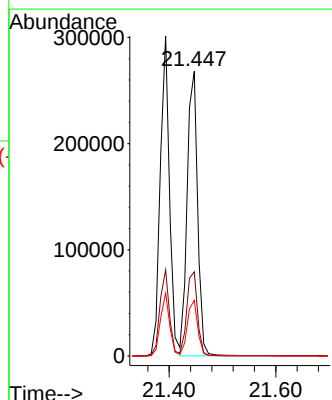
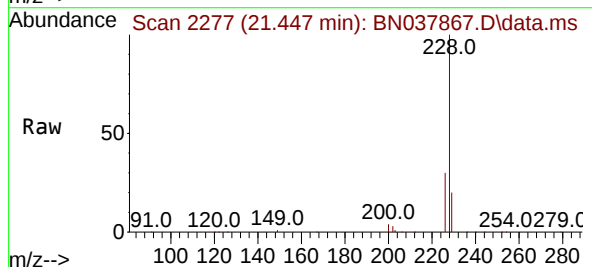
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

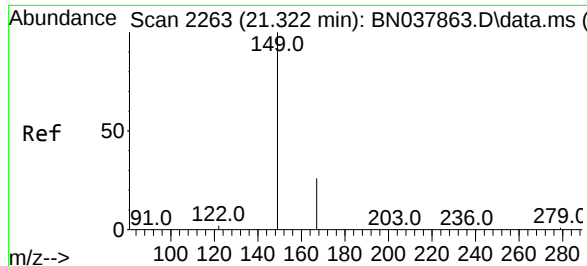
Tgt Ion:228 Resp: 362927  
Ion Ratio Lower Upper  
228 100  
226 26.9 22.6 33.8  
229 19.7 15.6 23.4



#33  
Chrysene  
Concen: 5.189 ng  
RT: 21.447 min Scan# 2277  
Delta R.T. 0.009 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

Tgt Ion:228 Resp: 363421  
Ion Ratio Lower Upper  
228 100  
226 29.6 24.6 37.0  
229 19.5 15.6 23.4

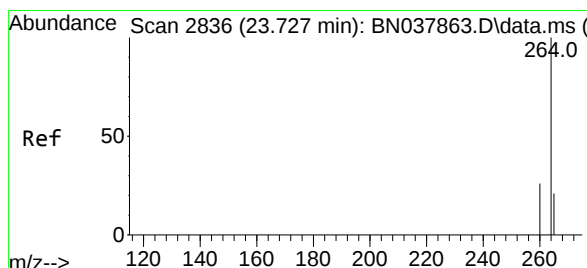
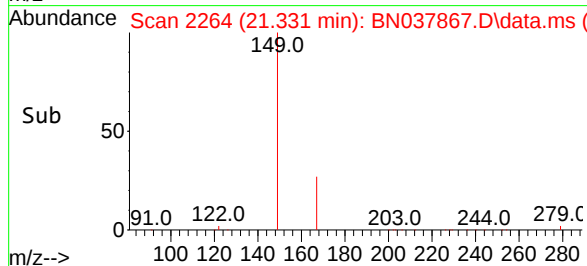
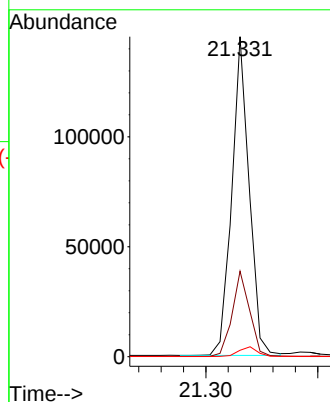
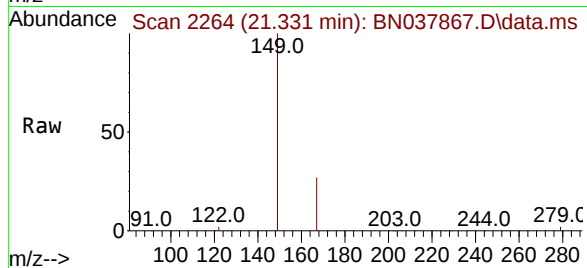




#34  
Bis(2-ethylhexyl)phthalate  
Concen: 6.109 ng  
RT: 21.331 min Scan# 21  
Delta R.T. 0.009 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

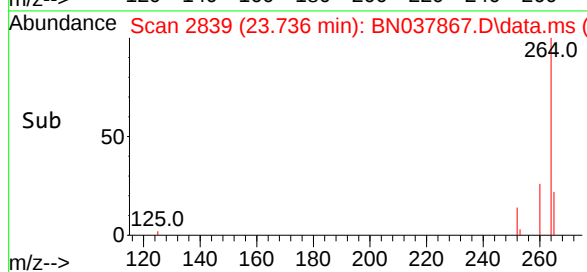
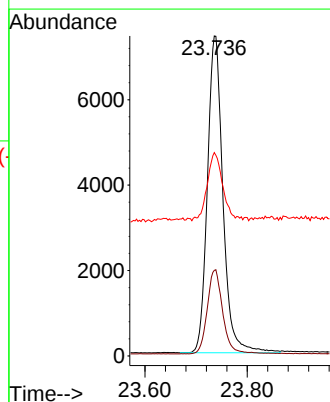
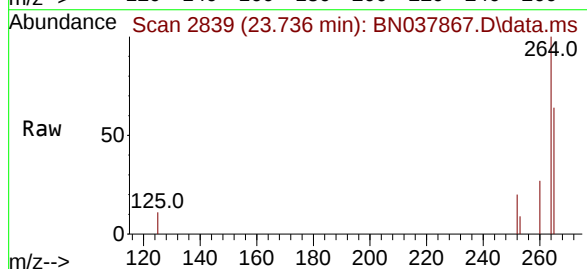
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

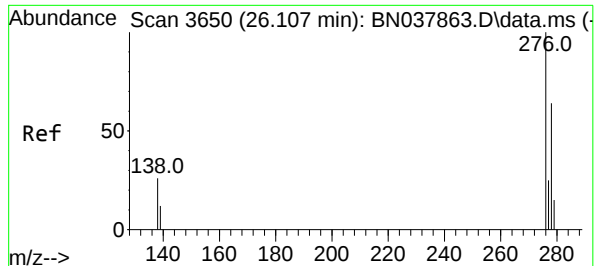
Tgt Ion:149 Resp: 156492  
Ion Ratio Lower Upper  
149 100  
167 26.8 20.4 30.6  
279 3.2 2.4 3.6



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.736 min Scan# 2839  
Delta R.T. 0.009 min  
Lab File: BN037867.D  
Acq: 23 Sep 2025 15:51

Tgt Ion:264 Resp: 15649  
Ion Ratio Lower Upper  
264 100  
260 26.8 21.5 32.3  
265 63.5 53.8 80.6





#36

Indeno(1,2,3-cd)pyrene

Concen: 5.906 ng

RT: 26.115 min Scan# 3653

Delta R.T. 0.009 min

Lab File: BN037867.D

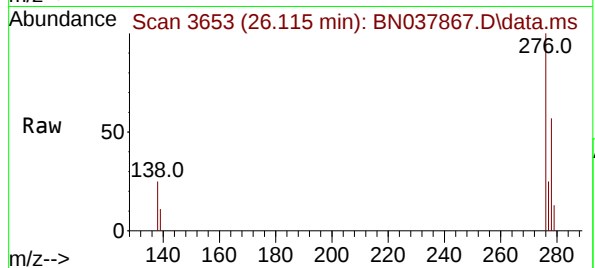
Acq: 23 Sep 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



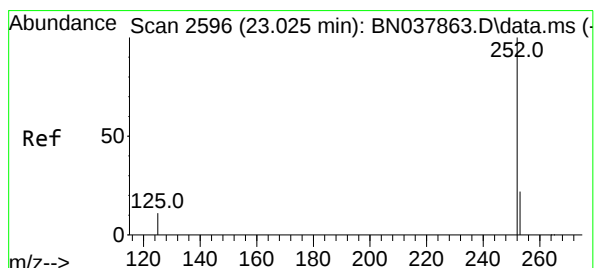
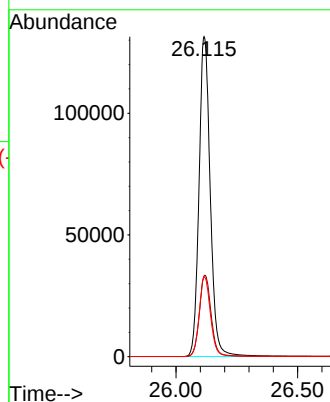
Tgt Ion:276 Resp: 422337

Ion Ratio Lower Upper

276 100

138 26.3 21.4 32.0

277 25.1 20.3 30.5



#37

Benzo(b)fluoranthene

Concen: 5.742 ng

RT: 23.034 min Scan# 2599

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

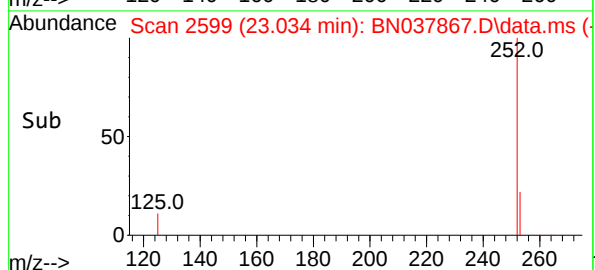
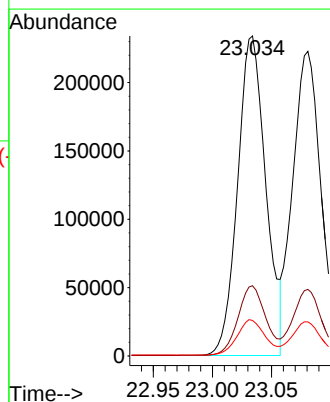
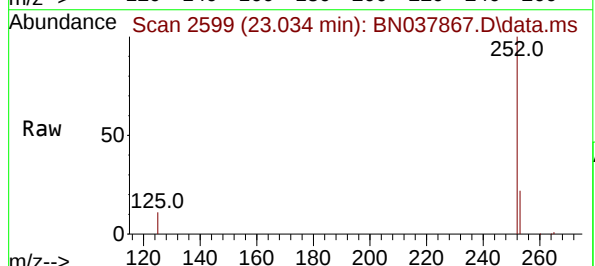
Tgt Ion:252 Resp: 387512

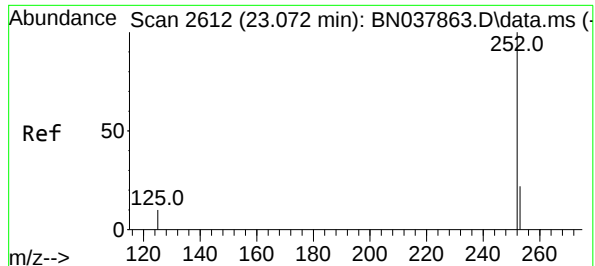
Ion Ratio Lower Upper

252 100

253 22.0 19.4 29.0

125 11.1 13.0 19.4#





#38

Benzo(k)fluoranthene

Concen: 5.548 ng

RT: 23.081 min Scan# 2

Delta R.T. 0.009 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

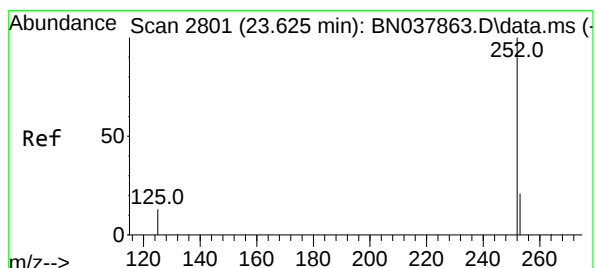
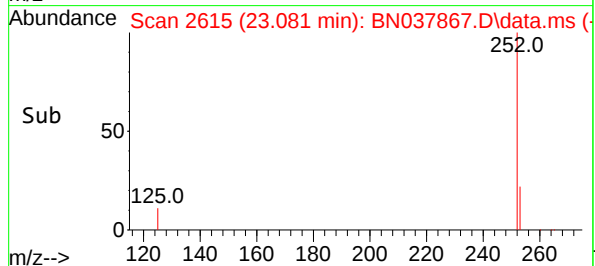
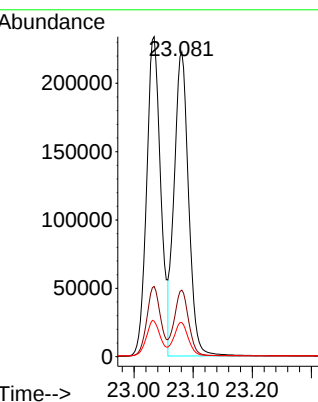
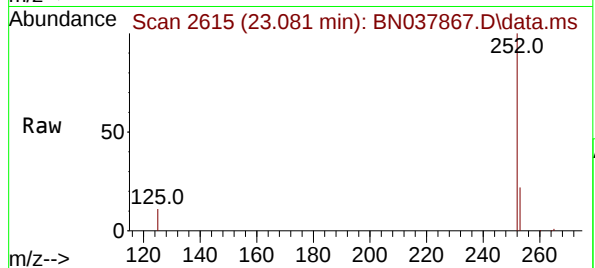
Tgt Ion:252 Resp: 376732

Ion Ratio Lower Upper

252 100

253 21.8 19.5 29.3

125 11.2 13.0 19.4#



#39

Benzo(a)pyrene

Concen: 5.900 ng

RT: 23.636 min Scan# 2805

Delta R.T. 0.012 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

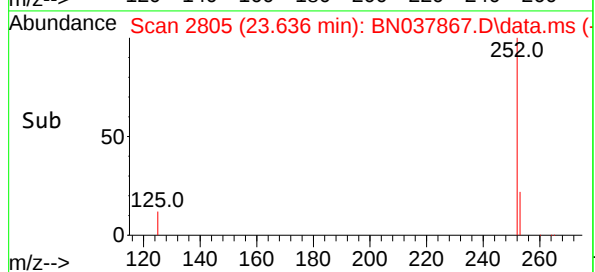
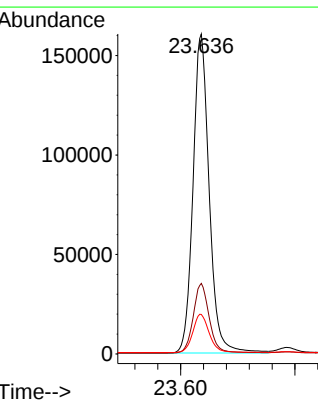
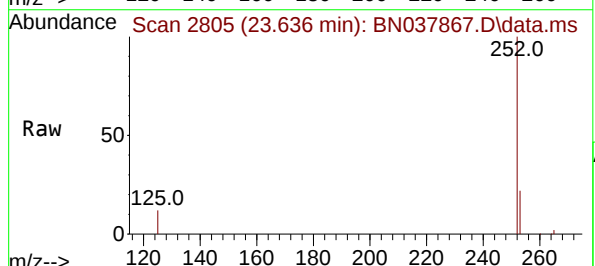
Tgt Ion:252 Resp: 314913

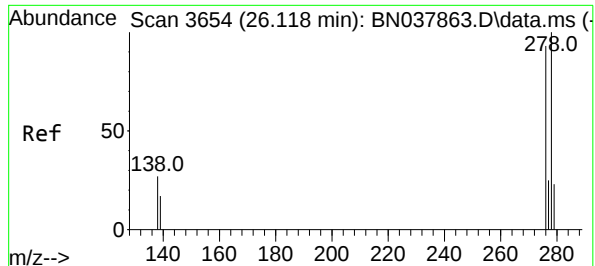
Ion Ratio Lower Upper

252 100

253 22.0 20.6 30.8

125 12.3 16.7 25.1#





#40

Dibenzo(a,h)anthracene

Concen: 5.971 ng

RT: 26.133 min Scan# 30

Delta R.T. 0.015 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

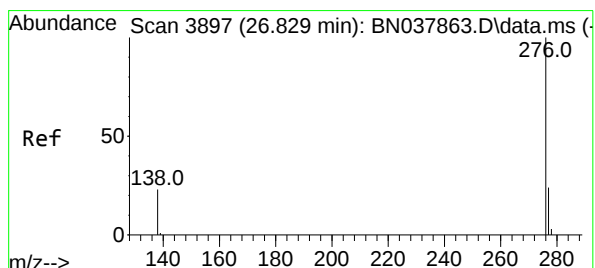
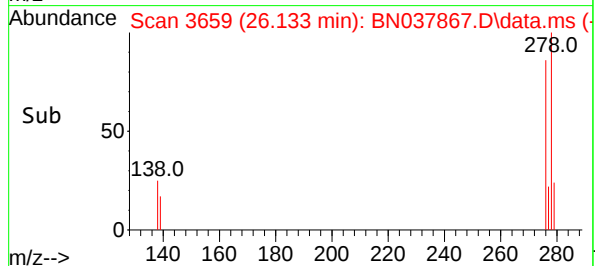
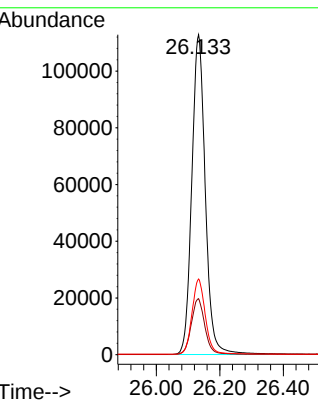
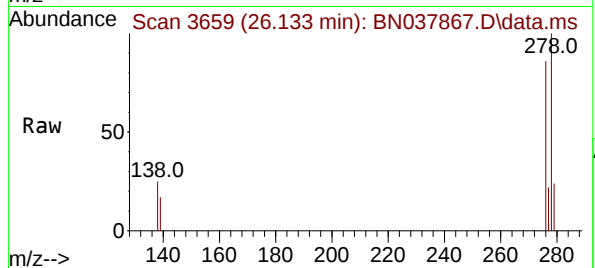
Tgt Ion:278 Resp: 333427

Ion Ratio Lower Upper

278 100

139 17.5 15.4 23.2

279 23.6 20.8 31.2



#41

Benzo(g,h,i)perylene

Concen: 5.913 ng

RT: 26.840 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037867.D

Acq: 23 Sep 2025 15:51

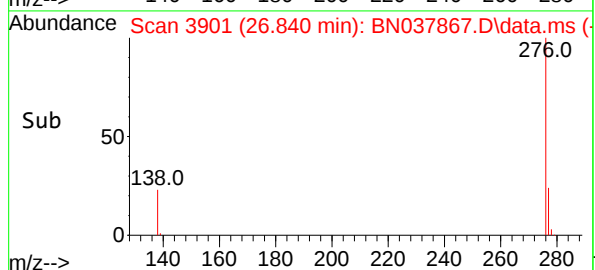
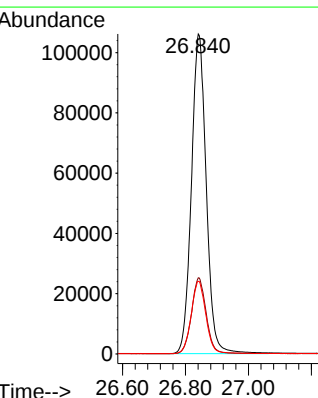
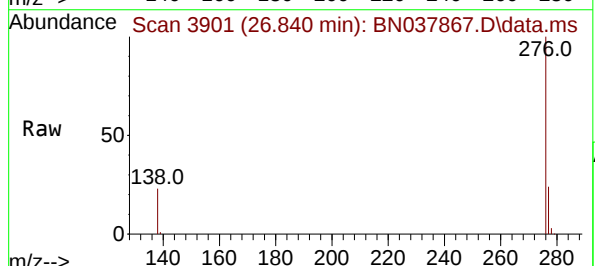
Tgt Ion:276 Resp: 346868

Ion Ratio Lower Upper

276 100

277 23.8 20.2 30.4

138 22.7 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
 Data File : BN037868.D  
 Acq On : 23 Sep 2025 16:28  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN092325

Quant Time: Sep 24 11:02:35 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 11:00:01 2025  
 Response via : Initial Calibration

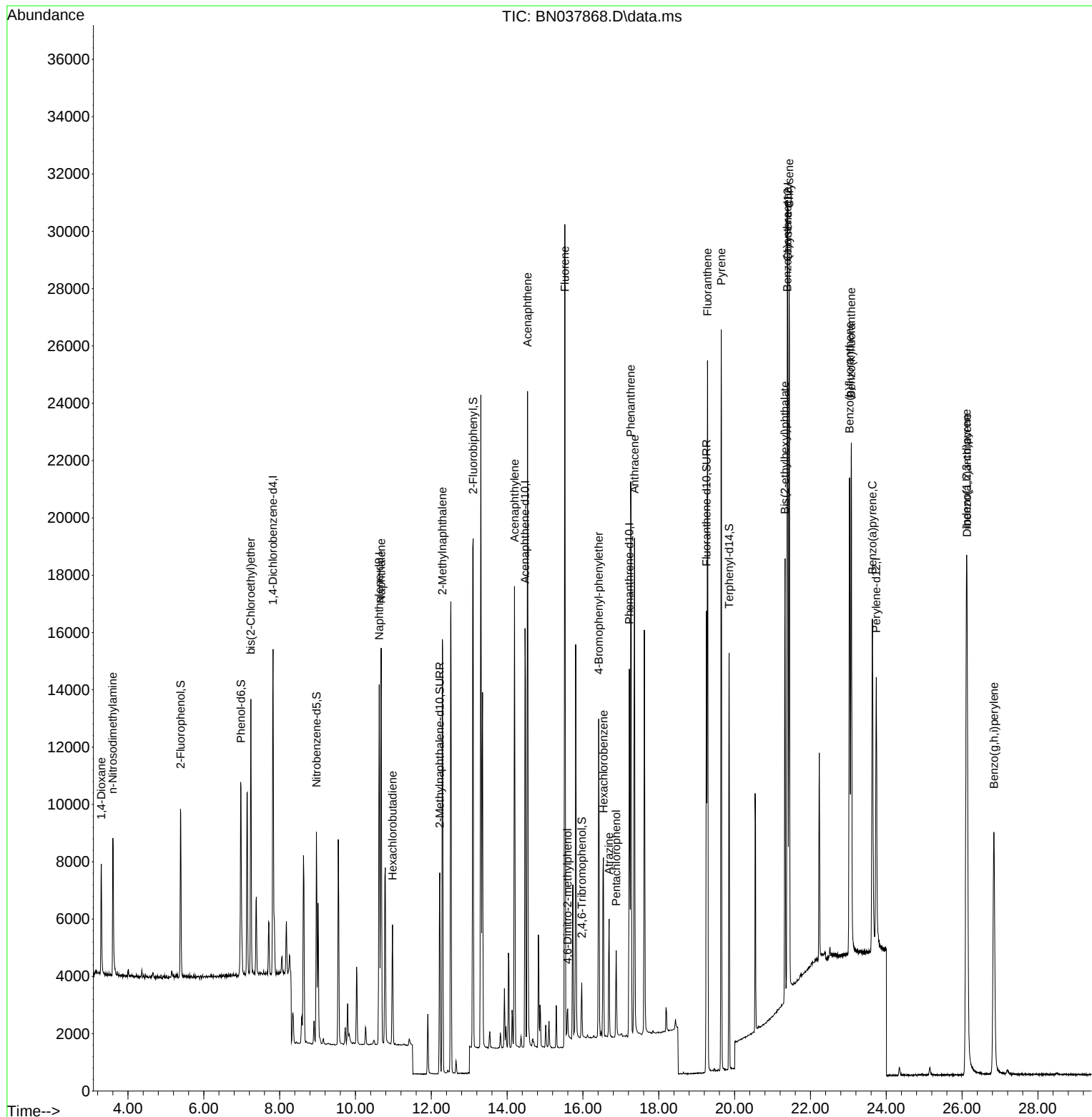
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.825  | 152  | 5572     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.626 | 136  | 16158    | 0.400 | ng    | 0.00     |
| 13) Acenaphthene-d10          | 14.473 | 164  | 8429     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 17.223 | 188  | 16279    | 0.400 | ng    | # 0.00   |
| 29) Chrysene-d12              | 21.402 | 240  | 14204    | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.736 | 264  | 13265    | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.392  | 112  | 5005     | 0.394 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.980  | 99   | 6375     | 0.382 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.971  | 82   | 5453     | 0.442 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 12.222 | 152  | 9492     | 0.423 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.969 | 330  | 1107     | 0.346 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 13.105 | 172  | 16723    | 0.485 | ng    | 0.01     |
| 27) Fluoranthene-d10          | 19.257 | 212  | 16910    | 0.413 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.856 | 244  | 13646    | 0.482 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.297  | 88   | 2698     | 0.477 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.600  | 42   | 3070     | 0.408 | ng    | # 89     |
| 6) bis(2-Chloroethyl)ether    | 7.240  | 93   | 6823     | 0.440 | ng    | 99       |
| 9) Naphthalene                | 10.680 | 128  | 18392    | 0.413 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.979 | 225  | 3253     | 0.428 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.293 | 142  | 10904    | 0.375 | ng    | 99       |
| 16) Acenaphthylene            | 14.195 | 152  | 16721    | 0.437 | ng    | 99       |
| 17) Acenaphthene              | 14.537 | 154  | 11059    | 0.406 | ng    | 99       |
| 18) Fluorene                  | 15.522 | 166  | 13327    | 0.404 | ng    | 97       |
| 20) 4,6-Dinitro-2-methylph... | 15.597 | 198  | 737      | 0.418 | ng    | 99       |
| 21) 4-Bromophenyl-phenylether | 16.416 | 248  | 4157     | 0.392 | ng    | # 89     |
| 22) Hexachlorobenzene         | 16.540 | 284  | 5455     | 0.424 | ng    | 100      |
| 23) Atrazine                  | 16.689 | 200  | 3196     | 0.396 | ng    | 98       |
| 24) Pentachlorophenol         | 16.875 | 266  | 1396     | 0.316 | ng    | 99       |
| 25) Phenanthrene              | 17.260 | 178  | 22020    | 0.411 | ng    | 100      |
| 26) Anthracene                | 17.360 | 178  | 18967    | 0.408 | ng    | 99       |
| 28) Fluoranthene              | 19.285 | 202  | 23044    | 0.391 | ng    | 100      |
| 30) Pyrene                    | 19.647 | 202  | 22563    | 0.402 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.393 | 228  | 20398    | 0.411 | ng    | 99       |
| 33) Chrysene                  | 21.438 | 228  | 22204    | 0.414 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.331 | 149  | 7939     | 0.404 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.115 | 276  | 25340    | 0.418 | ng    | 99       |
| 37) Benzo(b)fluoranthene      | 23.031 | 252  | 22193    | 0.388 | ng    | 99       |
| 38) Benzo(k)fluoranthene      | 23.078 | 252  | 23886    | 0.415 | ng    | 100      |
| 39) Benzo(a)pyrene            | 23.633 | 252  | 19091    | 0.422 | ng    | 100      |
| 40) Dibenzo(a,h)anthracene    | 26.130 | 278  | 19441    | 0.411 | ng    | 100      |
| 41) Benzo(g,h,i)perylene      | 26.841 | 276  | 19570    | 0.394 | ng    | 99       |

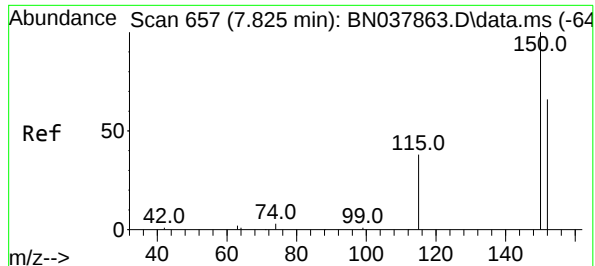
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
Data File : BN037868.D  
Acq On : 23 Sep 2025 16:28  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN092325

Quant Time: Sep 24 11:02:35 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration

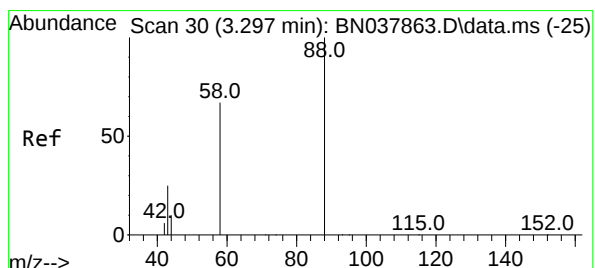
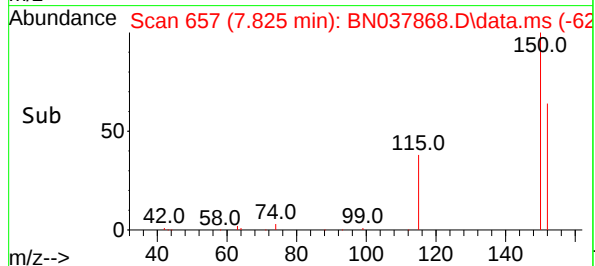
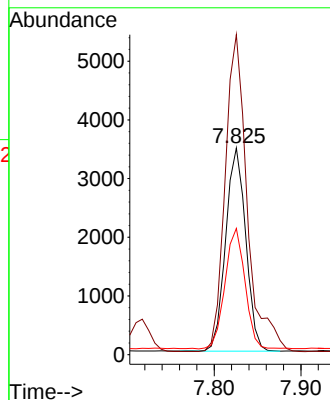
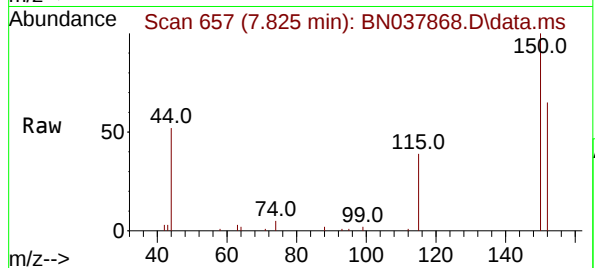




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.825 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

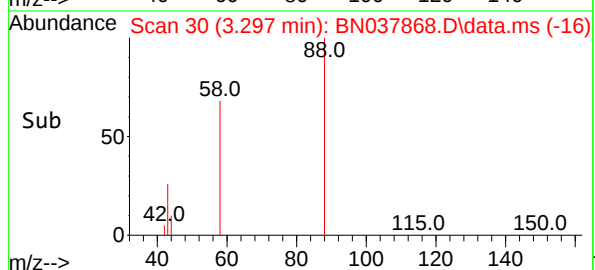
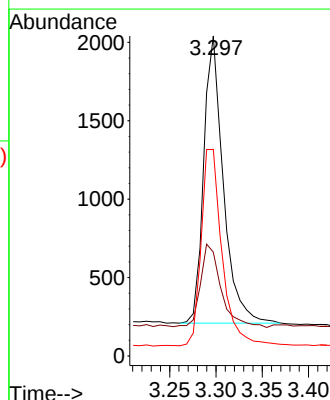
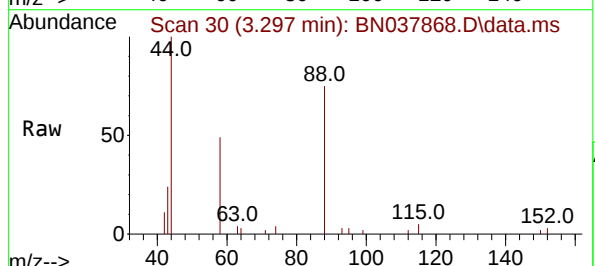
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN092325

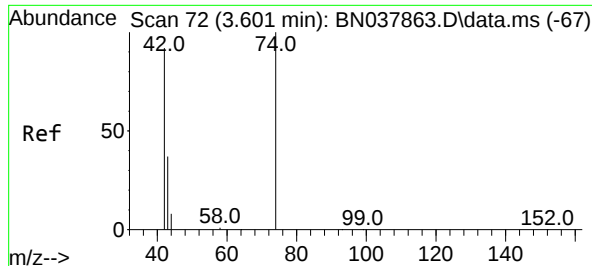
Tgt Ion:152 Resp: 5572  
Ion Ratio Lower Upper  
152 100  
150 154.8 121.0 181.4  
115 61.0 47.4 71.0



#2  
1,4-Dioxane  
Concen: 0.477 ng  
RT: 3.297 min Scan# 30  
Delta R.T. -0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

Tgt Ion: 88 Resp: 2698  
Ion Ratio Lower Upper  
88 100  
43 30.6 26.6 39.8  
58 72.8 58.9 88.3

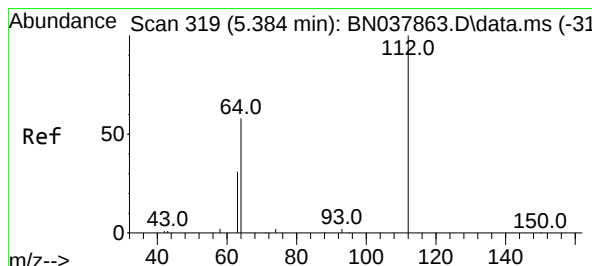
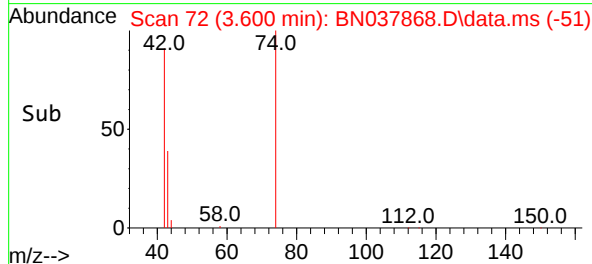
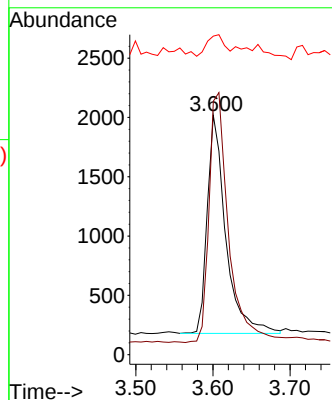
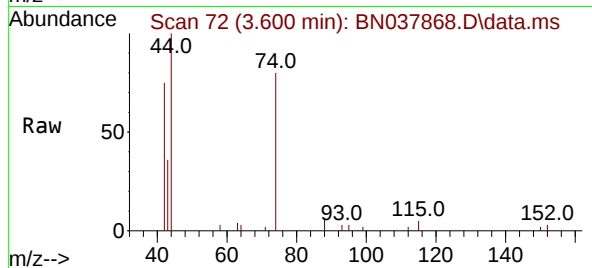




#3  
n-Nitrosodimethylamine  
Concen: 0.408 ng  
RT: 3.600 min Scan# 71  
Delta R.T. -0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

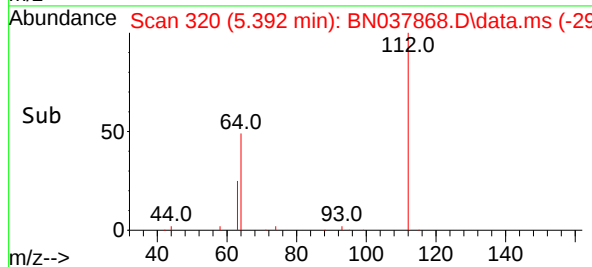
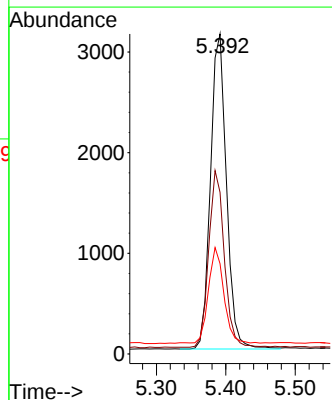
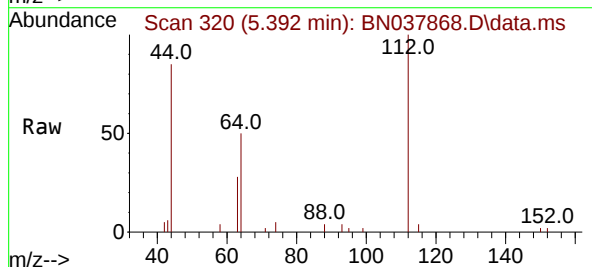
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN092325

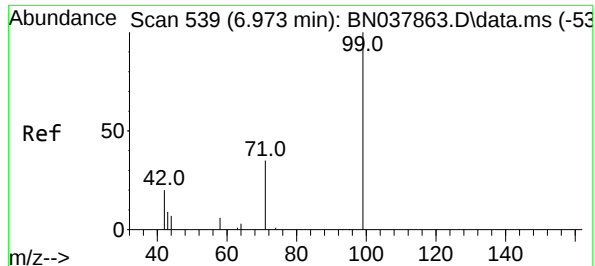
Tgt Ion: 42 Resp: 3070  
Ion Ratio Lower Upper  
42 100  
74 121.8 93.4 140.0  
44 9.2 22.2 33.4#



#4  
2-Fluorophenol  
Concen: 0.394 ng  
RT: 5.392 min Scan# 320  
Delta R.T. 0.007 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

Tgt Ion: 112 Resp: 5005  
Ion Ratio Lower Upper  
112 100  
64 54.6 44.6 66.8  
63 29.8 24.9 37.3





#5

Phenol-d6

Concen: 0.382 ng

RT: 6.980 min Scan# 54

Delta R.T. 0.007 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325

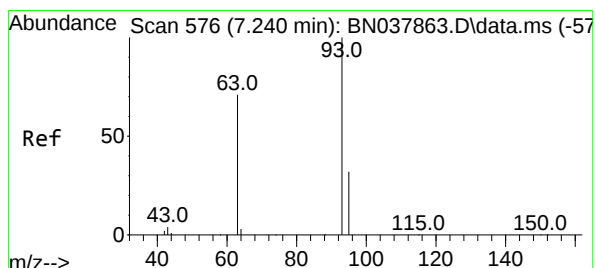
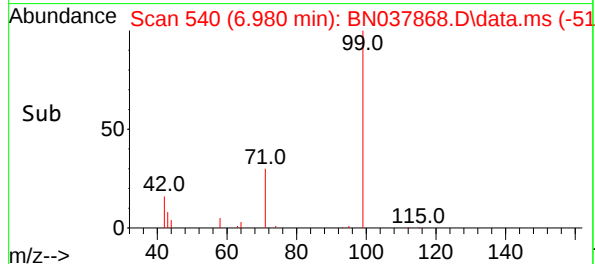
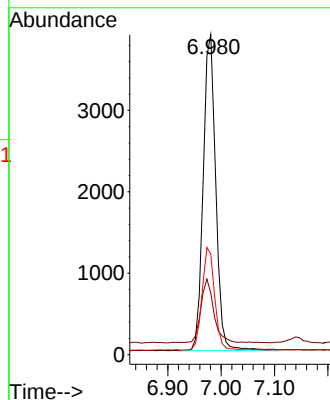
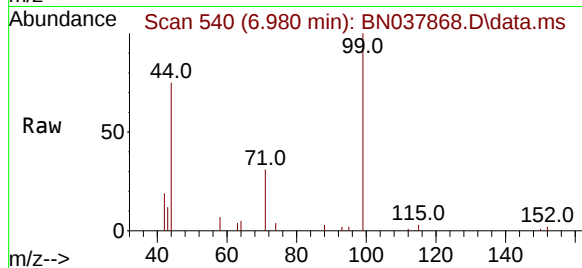
Tgt Ion: 99 Resp: 6375

Ion Ratio Lower Upper

99 100

42 20.3 17.2 25.8

71 32.5 27.3 40.9



#6

bis(2-Chloroethyl)ether

Concen: 0.440 ng

RT: 7.240 min Scan# 576

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

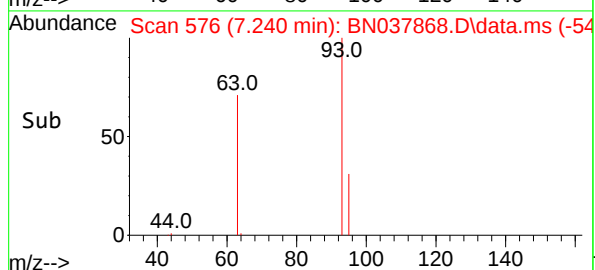
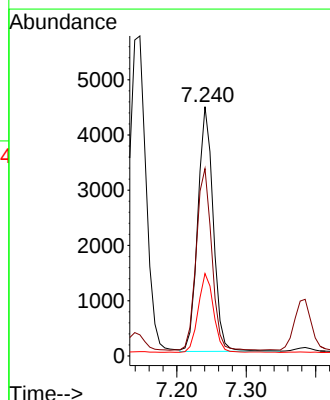
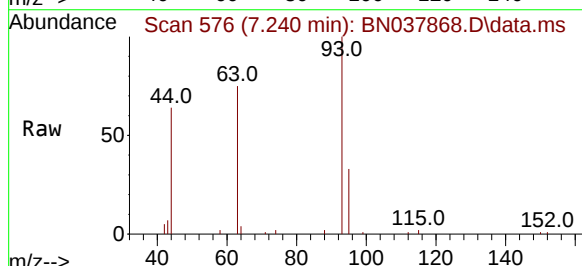
Tgt Ion: 93 Resp: 6823

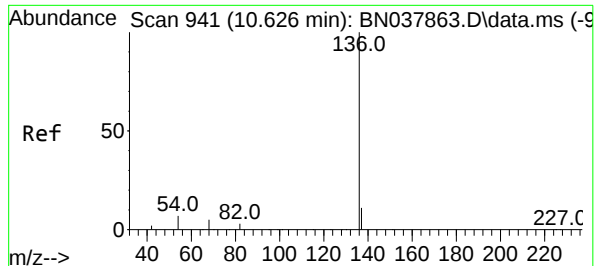
Ion Ratio Lower Upper

93 100

63 74.7 60.1 90.1

95 32.3 25.4 38.2

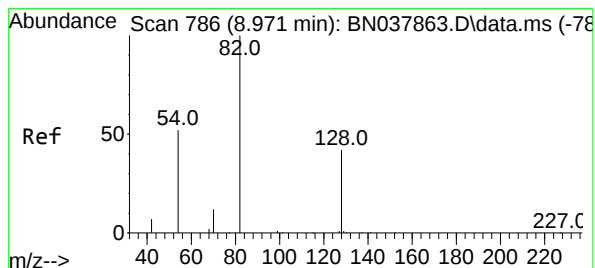
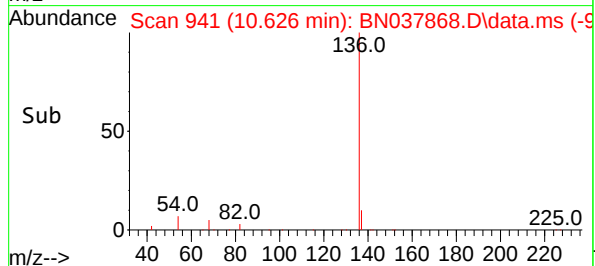
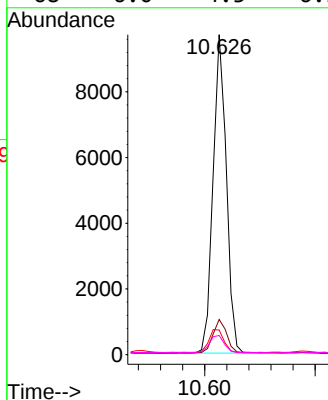
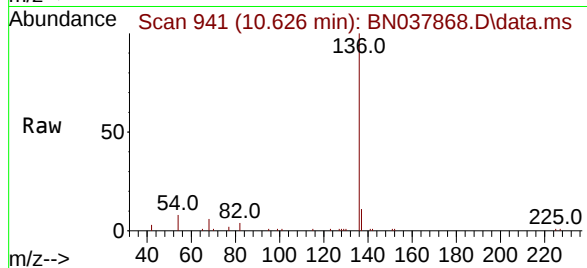




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.626 min Scan# 941  
Delta R.T. -0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

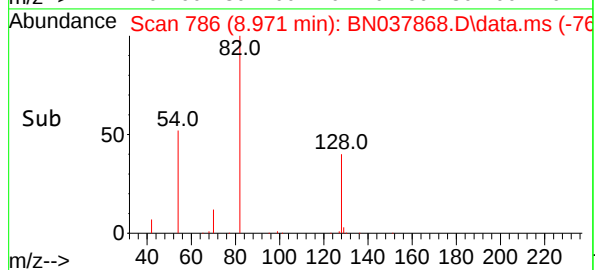
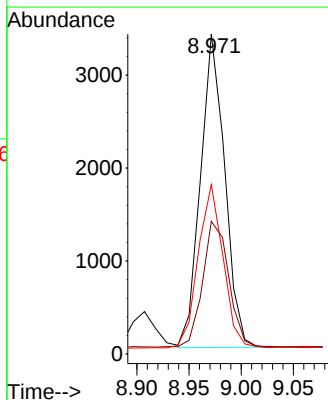
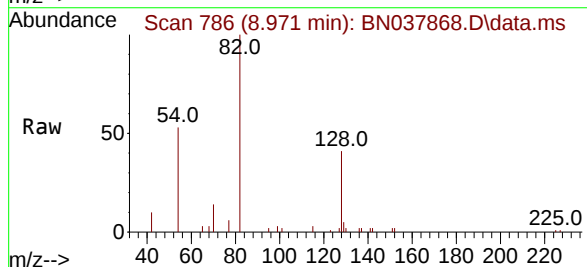
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN092325

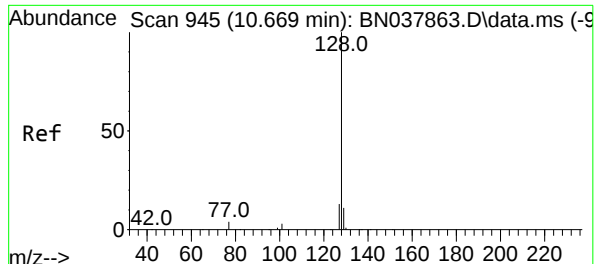
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 16158 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.0  | 9.0   | 13.4  |
| 54       | 7.7   | 5.8   | 8.8   |
| 68       | 6.0   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.442 ng  
RT: 8.971 min Scan# 786  
Delta R.T. -0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 5453  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 41.4  | 34.8  | 52.2  |
| 54       | 52.9  | 42.2  | 63.2  |





#9

Naphthalene

Concen: 0.413 ng

RT: 10.680 min Scan# 945

Delta R.T. 0.011 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325

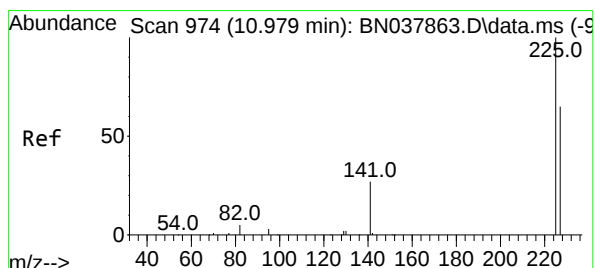
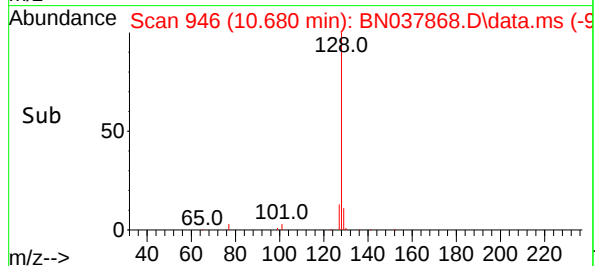
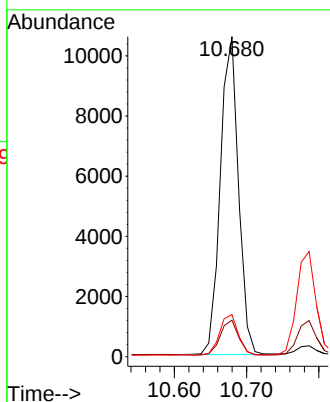
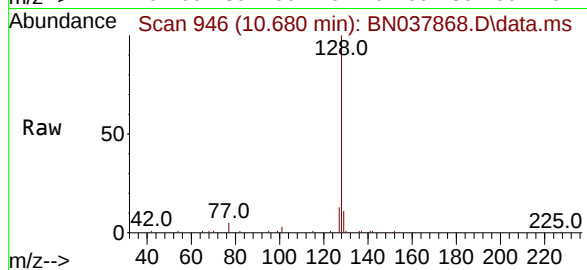
Tgt Ion:128 Resp: 18392

Ion Ratio Lower Upper

128 100

129 11.4 9.2 13.8

127 13.1 11.0 16.6



#10

Hexachlorobutadiene

Concen: 0.428 ng

RT: 10.979 min Scan# 974

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

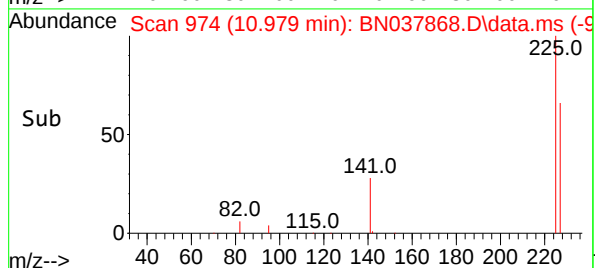
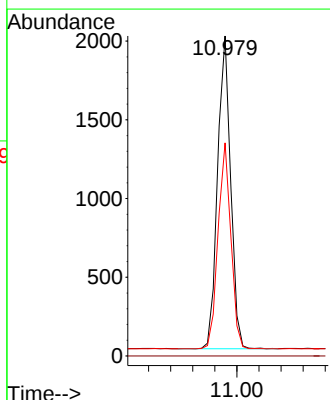
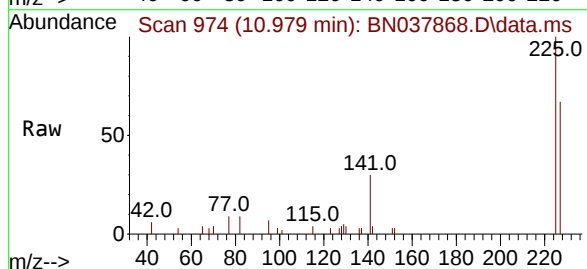
Tgt Ion:225 Resp: 3253

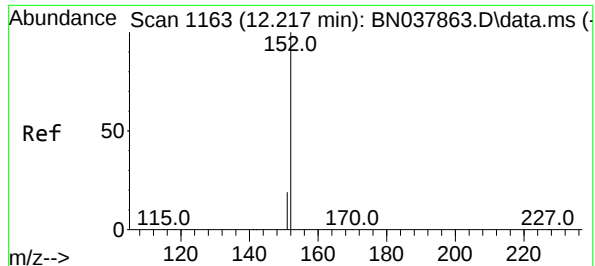
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 64.5 51.4 77.2

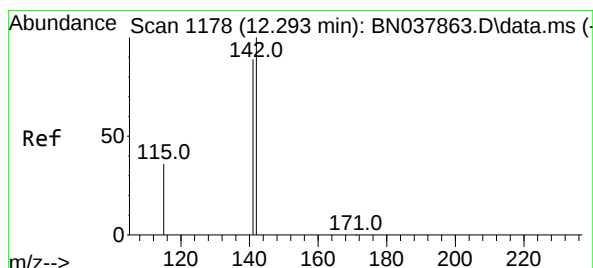
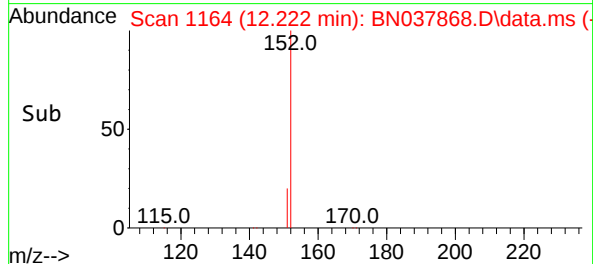
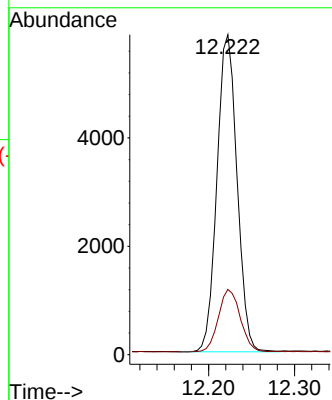
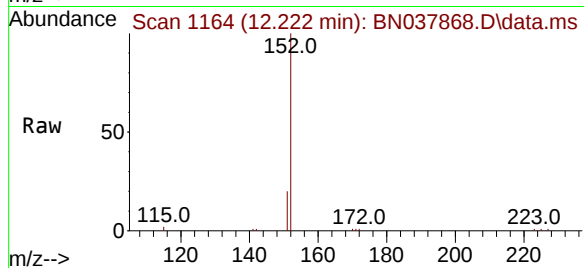




#11  
2-Methylnaphthalene-d10  
Concen: 0.423 ng  
RT: 12.222 min Scan# 1164  
Delta R.T. 0.005 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

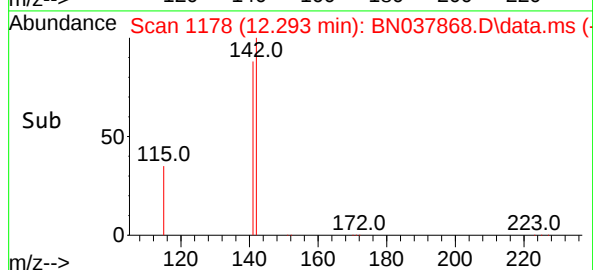
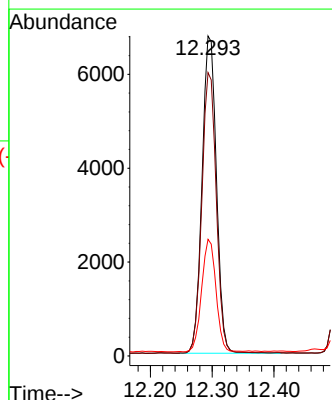
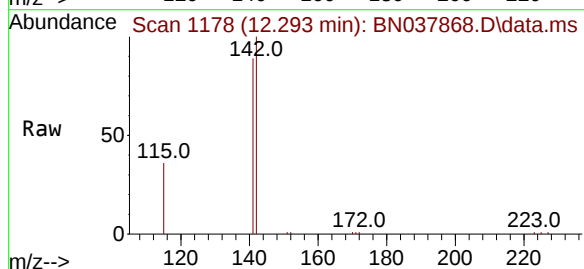
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN092325

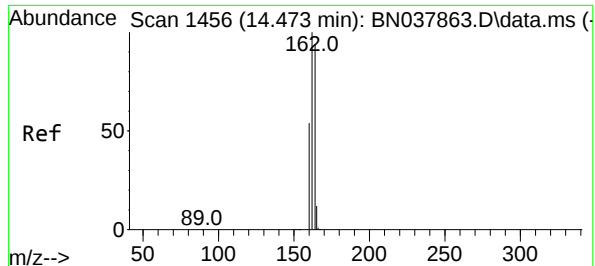
Tgt Ion:152 Resp: 9492  
Ion Ratio Lower Upper  
152 100  
151 21.7 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 0.375 ng  
RT: 12.293 min Scan# 1178  
Delta R.T. -0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

Tgt Ion:142 Resp: 10904  
Ion Ratio Lower Upper  
142 100  
141 88.6 71.2 106.8  
115 36.5 29.7 44.5

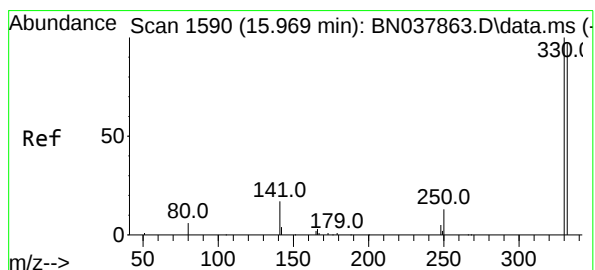
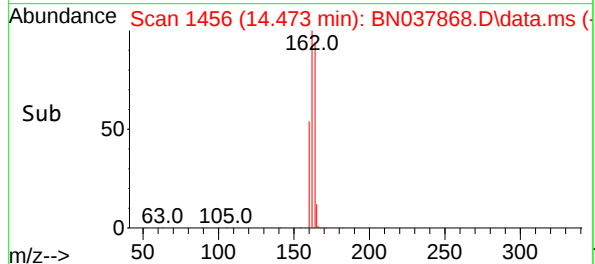
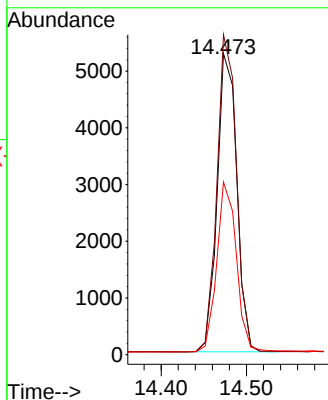
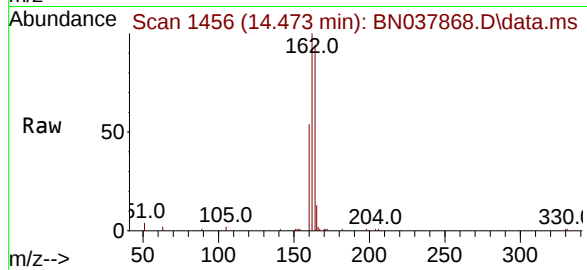




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.473 min Scan# 1456  
Delta R.T. -0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

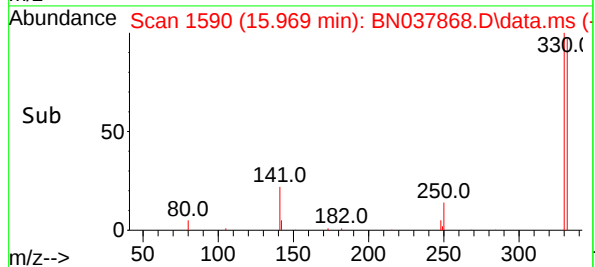
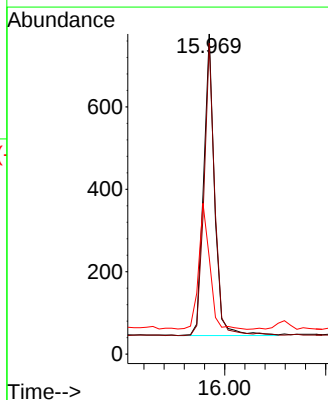
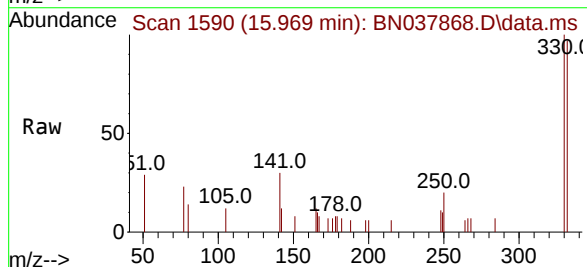
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN092325

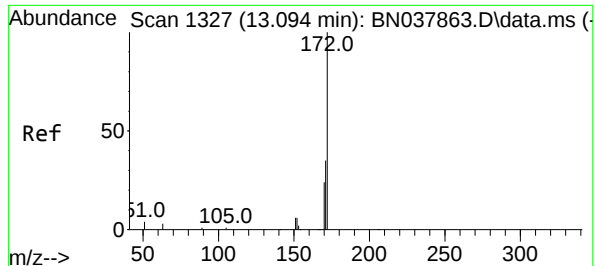
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 164     | 100   |       |       |
| 162     | 106.3 | 84.8  | 127.2 |
| 160     | 57.3  | 46.1  | 69.1  |



#14  
2,4,6-Tribromophenol  
Concen: 0.346 ng  
RT: 15.969 min Scan# 1590  
Delta R.T. 0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 330     | 100   |       |       |
| 332     | 94.1  | 77.2  | 115.8 |
| 141     | 42.0  | 37.2  | 55.8  |

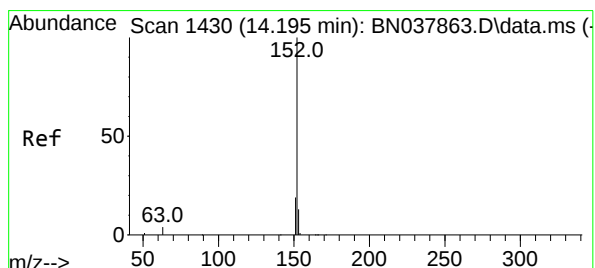
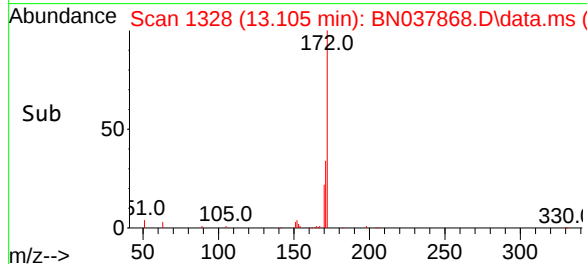
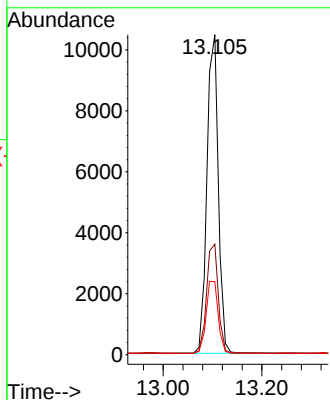
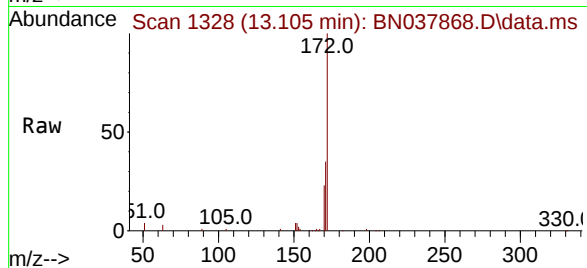




#15  
2-Fluorobiphenyl  
Concen: 0.485 ng  
RT: 13.105 min Scan# 1328  
Delta R.T. 0.011 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

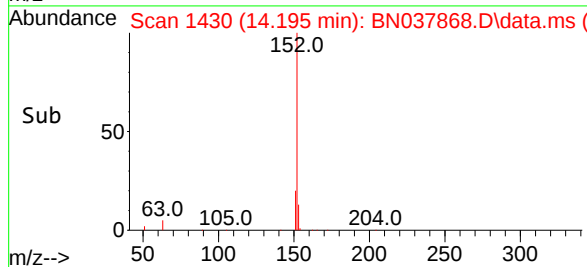
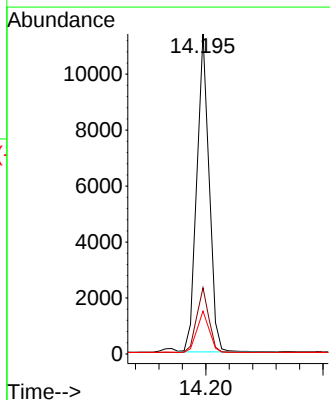
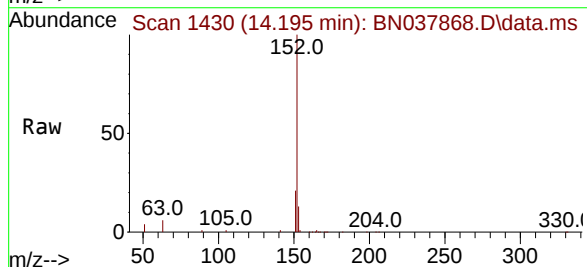
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN092325

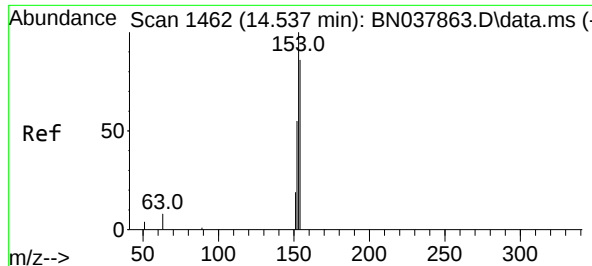
Tgt Ion:172 Resp: 16723  
Ion Ratio Lower Upper  
172 100  
171 34.6 28.6 43.0  
170 22.9 19.7 29.5



#16  
Acenaphthylene  
Concen: 0.437 ng  
RT: 14.195 min Scan# 1430  
Delta R.T. -0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

Tgt Ion:152 Resp: 16721  
Ion Ratio Lower Upper  
152 100  
151 20.1 15.8 23.8  
153 13.0 10.5 15.7





#17

Acenaphthene

Concen: 0.406 ng

RT: 14.537 min Scan# 1462

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325

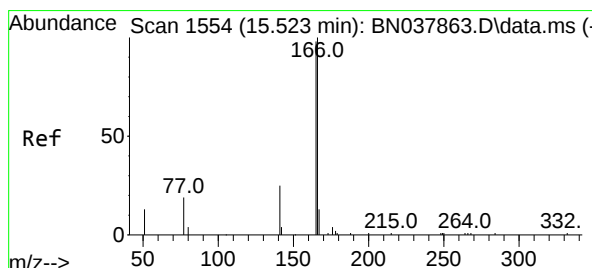
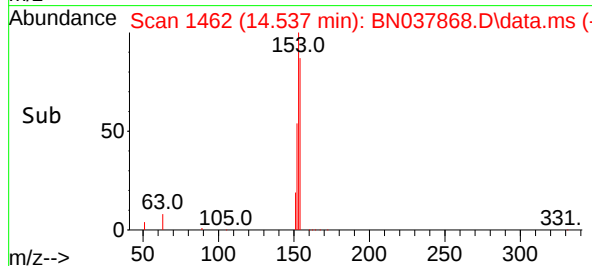
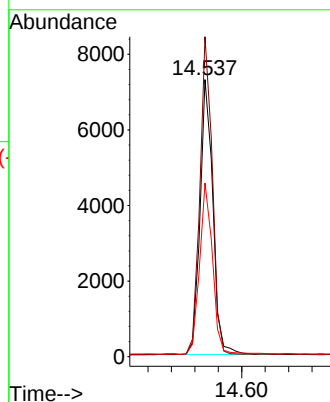
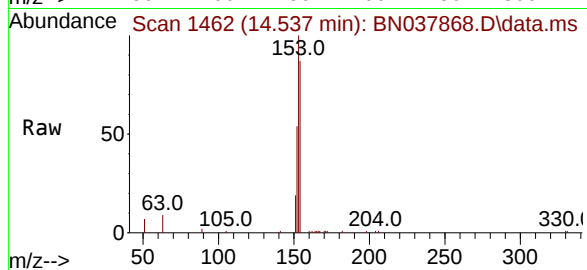
Tgt Ion:154 Resp: 11059

Ion Ratio Lower Upper

154 100

153 112.6 90.5 135.7

152 63.5 51.8 77.8



#18

Fluorene

Concen: 0.404 ng

RT: 15.522 min Scan# 1554

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

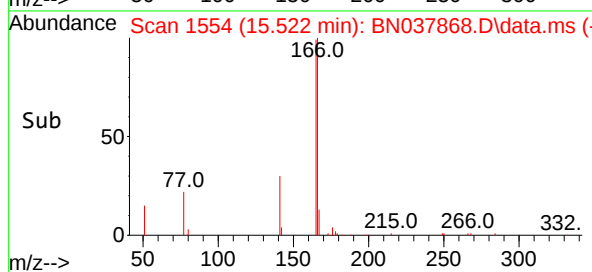
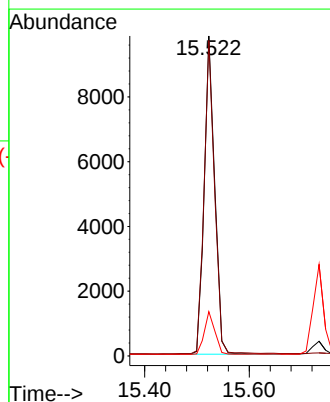
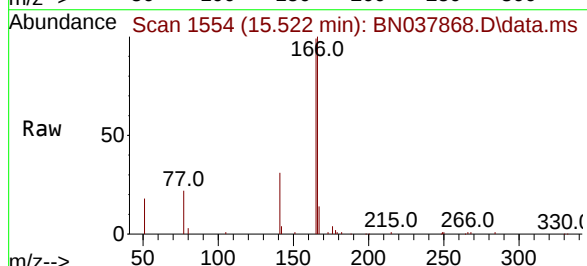
Tgt Ion:166 Resp: 13327

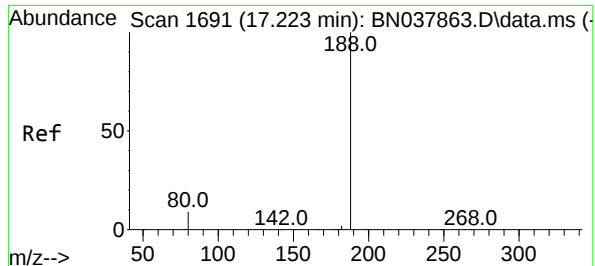
Ion Ratio Lower Upper

166 100

165 95.9 79.0 118.4

167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.223 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325

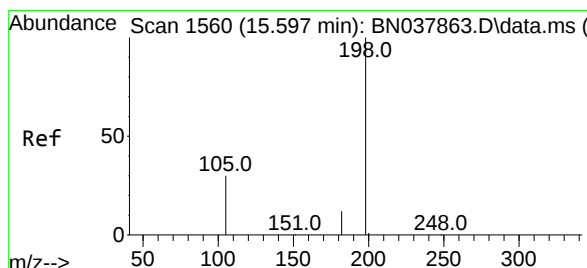
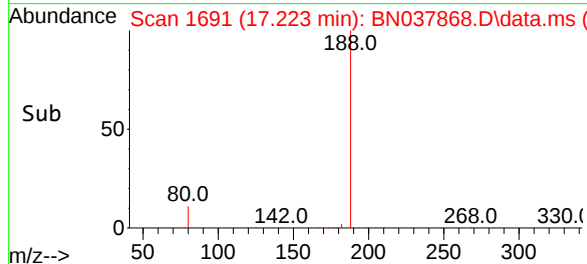
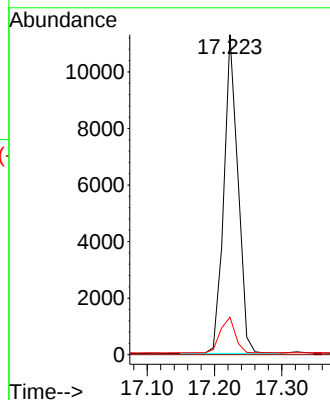
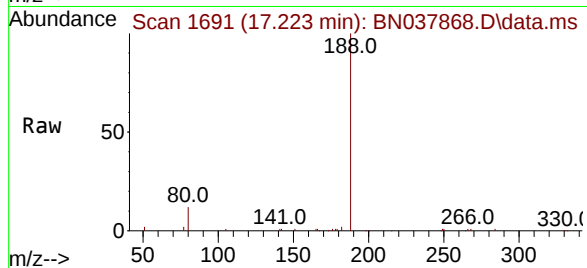
Tgt Ion:188 Resp: 16279

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.418 ng

RT: 15.597 min Scan# 1560

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

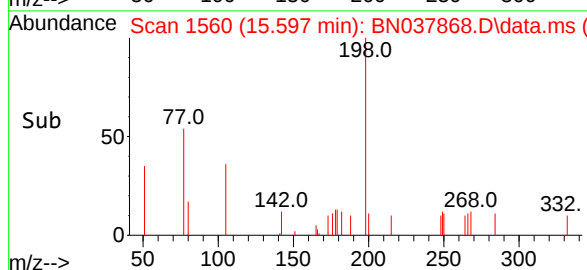
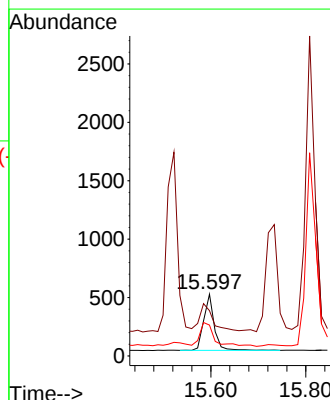
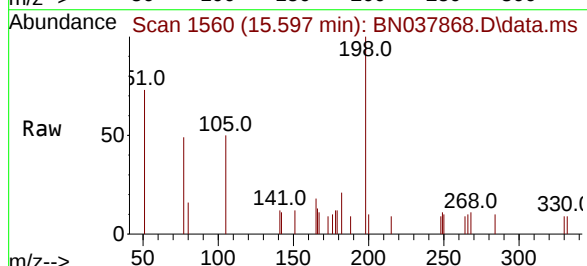
Tgt Ion:198 Resp: 737

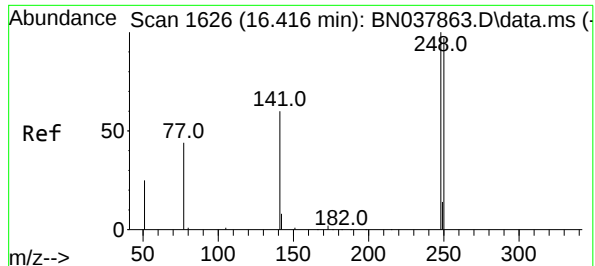
Ion Ratio Lower Upper

198 100

51 73.3 59.1 88.7

105 49.9 41.3 61.9

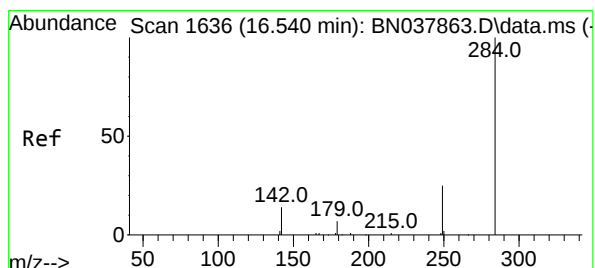
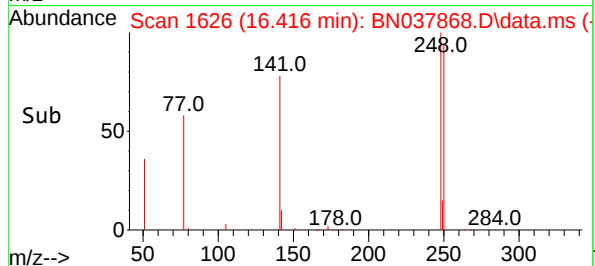
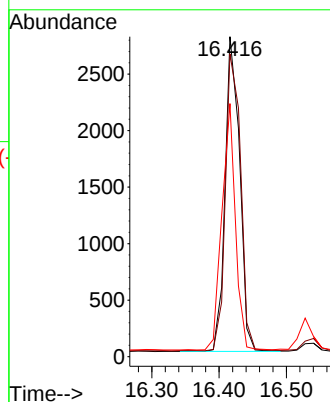
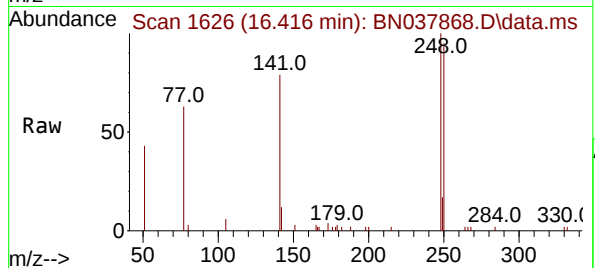




#21  
4-Bromophenyl-phenylether  
Concen: 0.392 ng  
RT: 16.416 min Scan# 1626  
Delta R.T. -0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

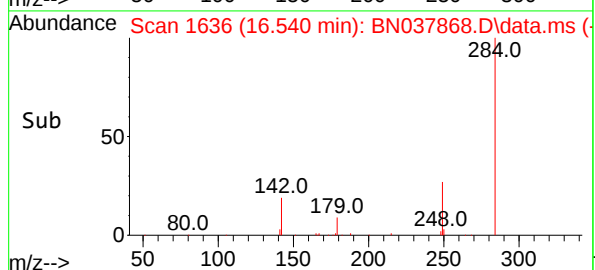
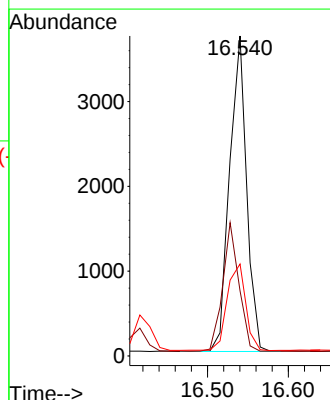
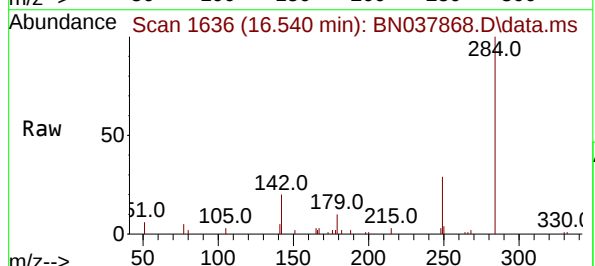
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BNA\_N  
ClientSampleId :  
ICVBN092325

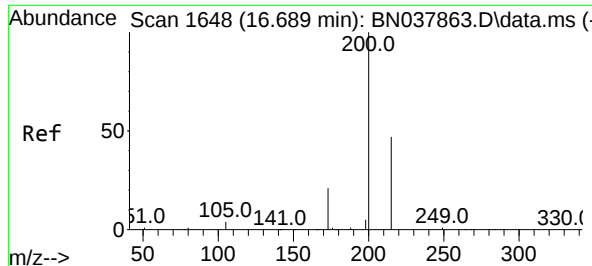
Tgt Ion:248 Resp: 4157  
Ion Ratio Lower Upper  
248 100  
250 94.6 77.6 116.4  
141 79.1 48.8 73.2#



#22  
Hexachlorobenzene  
Concen: 0.424 ng  
RT: 16.540 min Scan# 1636  
Delta R.T. -0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

Tgt Ion:284 Resp: 5455  
Ion Ratio Lower Upper  
284 100  
142 38.9 30.9 46.3  
249 30.0 23.9 35.9

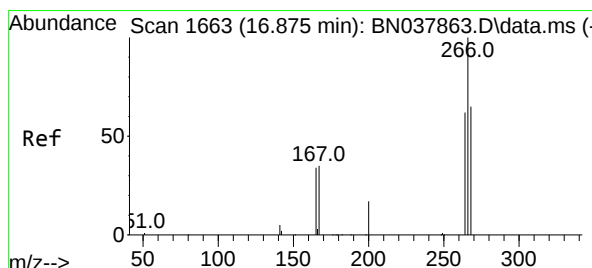
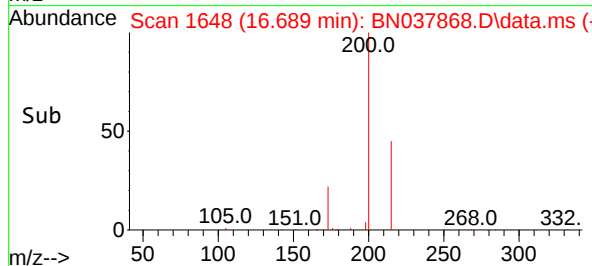
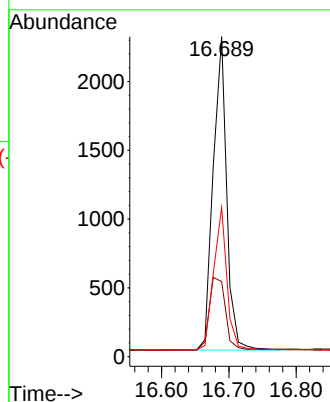
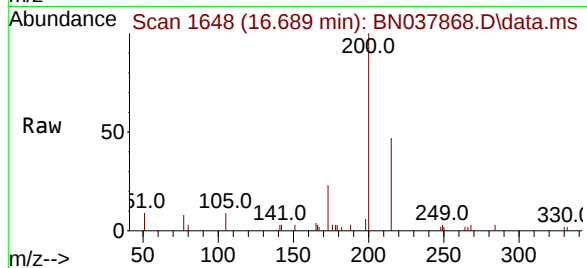




#23  
Atrazine  
Concen: 0.396 ng  
RT: 16.689 min Scan# 1648  
Delta R.T. -0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

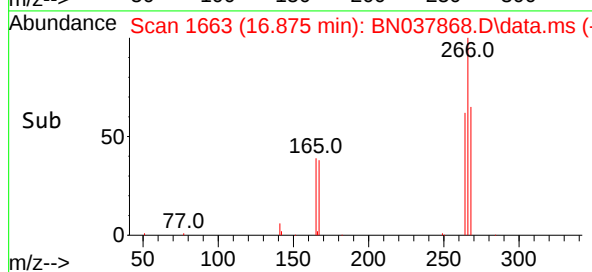
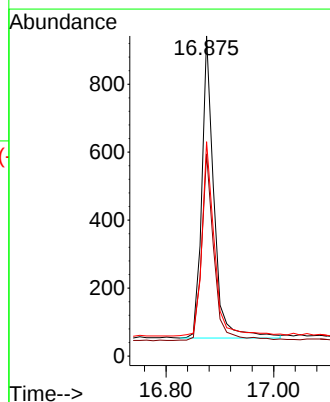
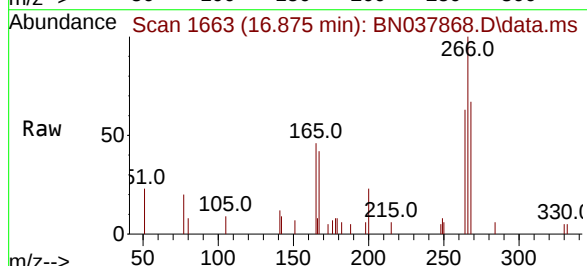
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN092325

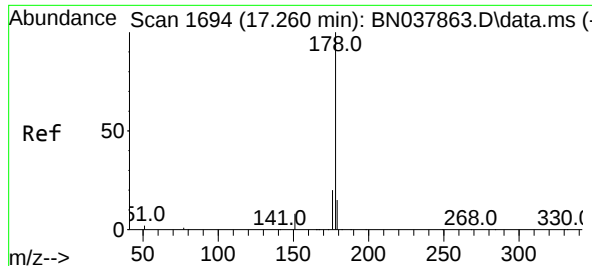
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 200     | 100   |       |       |
| 173     | 23.5  | 18.3  | 27.5  |
| 215     | 46.6  | 38.6  | 58.0  |



#24  
Pentachlorophenol  
Concen: 0.316 ng  
RT: 16.875 min Scan# 1663  
Delta R.T. 0.000 min  
Lab File: BN037868.D  
Acq: 23 Sep 2025 16:28

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 266     | 100   |       |       |
| 264     | 63.8  | 50.9  | 76.3  |
| 268     | 66.0  | 54.3  | 81.5  |





#25

Phenanthrene

Concen: 0.411 ng

RT: 17.260 min Scan# 1

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325

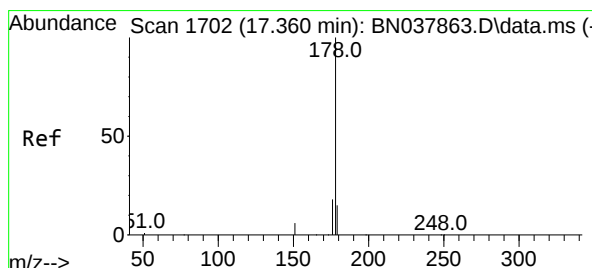
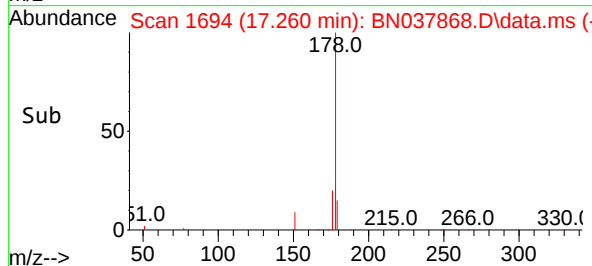
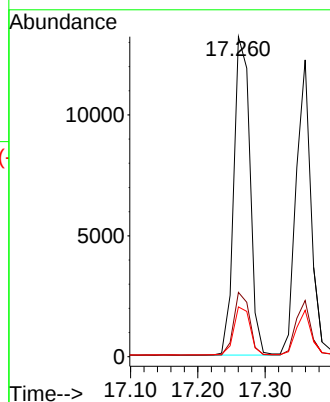
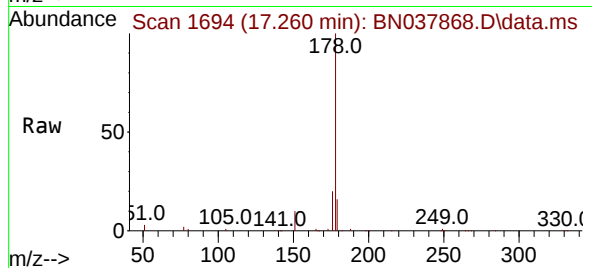
Tgt Ion:178 Resp: 22020

Ion Ratio Lower Upper

178 100

176 19.3 15.7 23.5

179 15.4 12.3 18.5



#26

Anthracene

Concen: 0.408 ng

RT: 17.360 min Scan# 1702

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

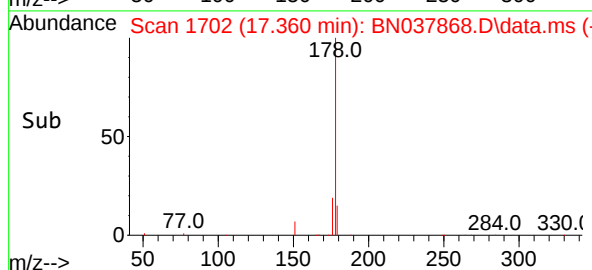
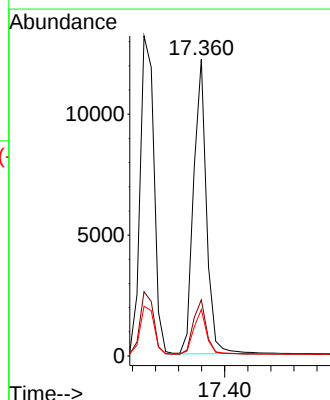
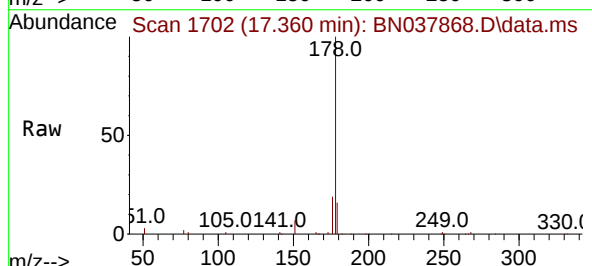
Tgt Ion:178 Resp: 18967

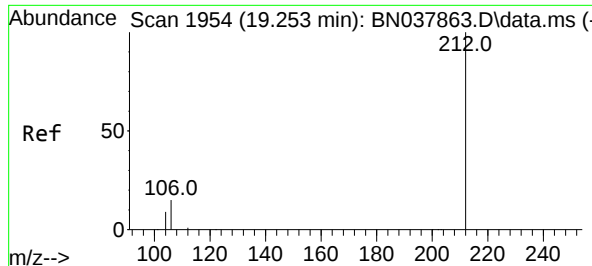
Ion Ratio Lower Upper

178 100

176 18.9 15.0 22.4

179 15.0 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.413 ng

RT: 19.257 min Scan# 1954

Delta R.T. 0.005 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325

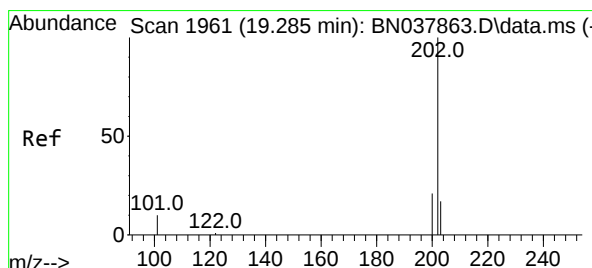
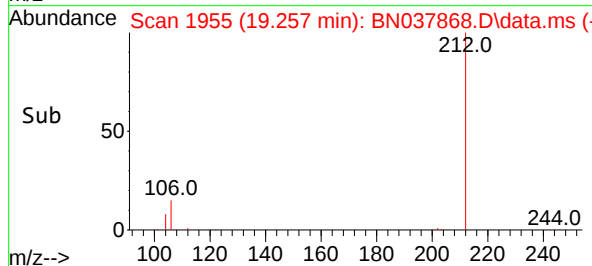
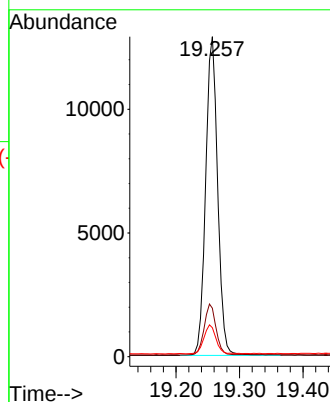
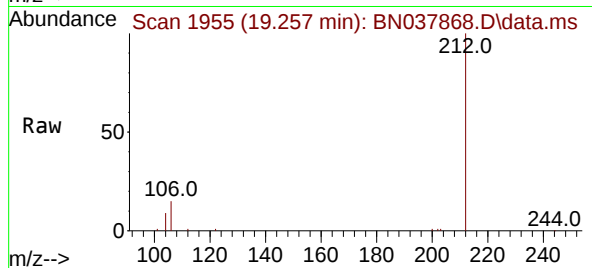
Tgt Ion:212 Resp: 16910

Ion Ratio Lower Upper

212 100

106 15.8 12.6 19.0

104 9.1 7.4 11.0



#28

Fluoranthene

Concen: 0.391 ng

RT: 19.285 min Scan# 1961

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

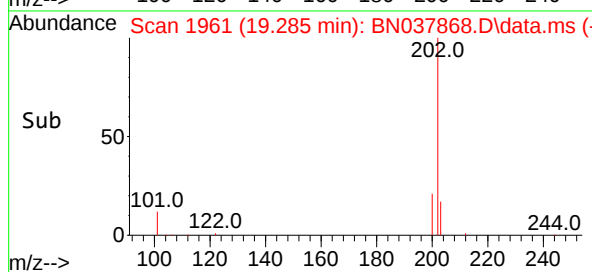
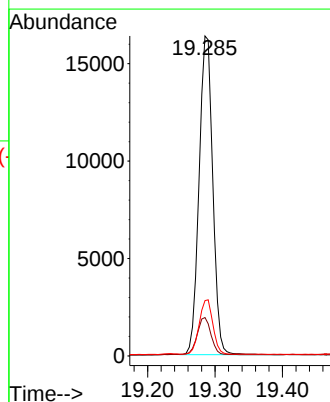
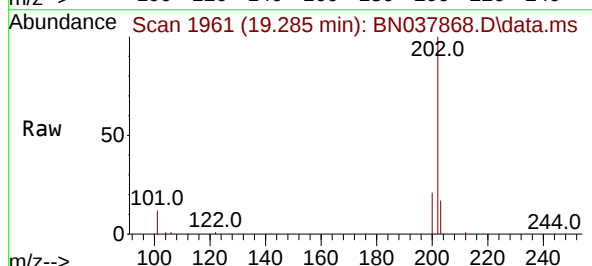
Tgt Ion:202 Resp: 23044

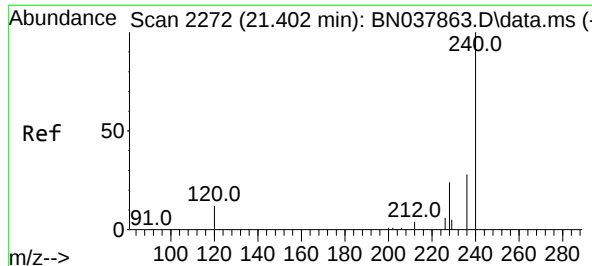
Ion Ratio Lower Upper

202 100

101 12.0 9.3 13.9

203 17.0 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.402 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325

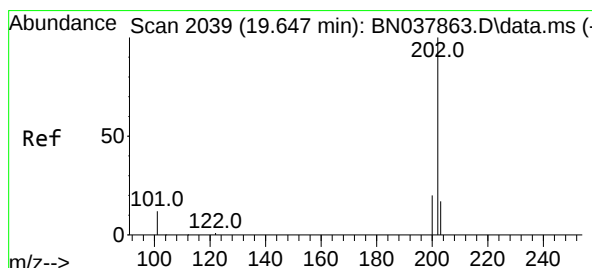
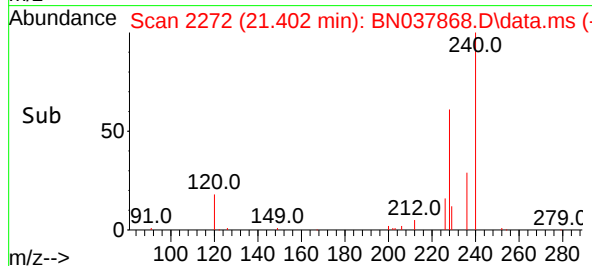
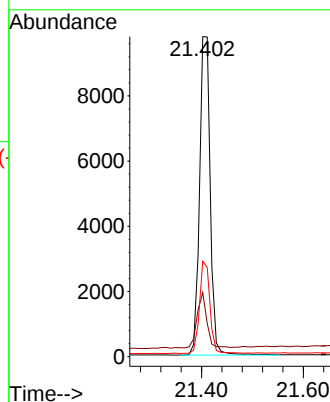
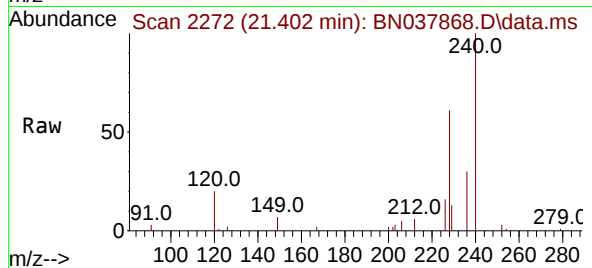
Tgt Ion:240 Resp: 14204

Ion Ratio Lower Upper

240 100

120 20.0 11.4 17.2#

236 29.8 23.0 34.6



#30

Pyrene

Concen: 0.402 ng

RT: 19.647 min Scan# 2039

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

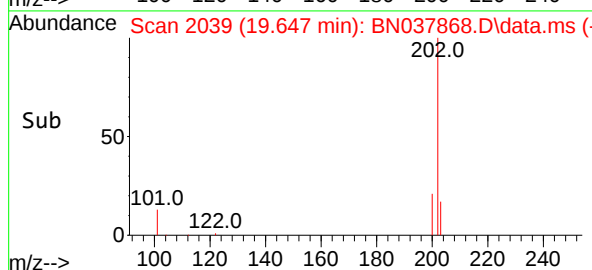
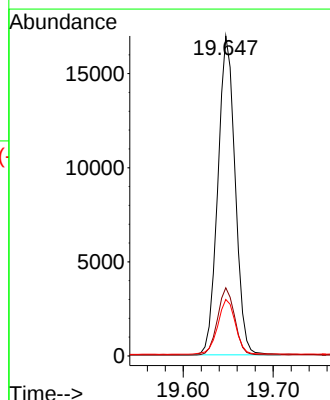
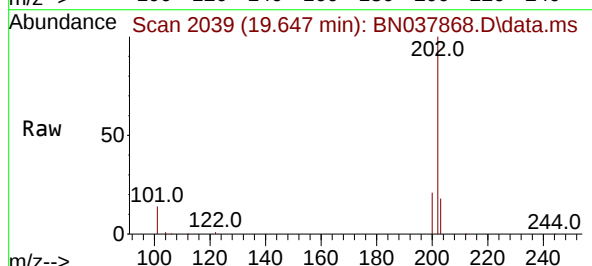
Tgt Ion:202 Resp: 22563

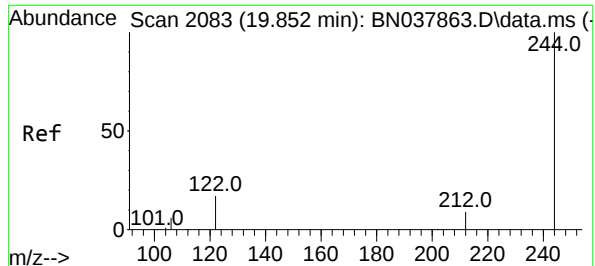
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4





#31

Terphenyl-d14

Concen: 0.482 ng

RT: 19.856 min Scan# 2084

Delta R.T. 0.005 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325

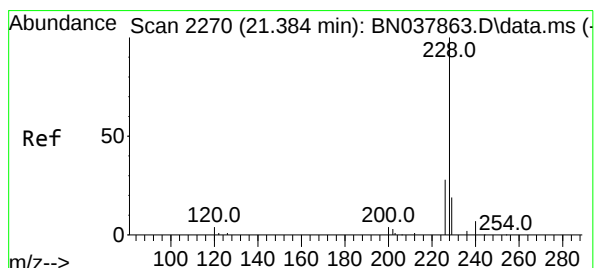
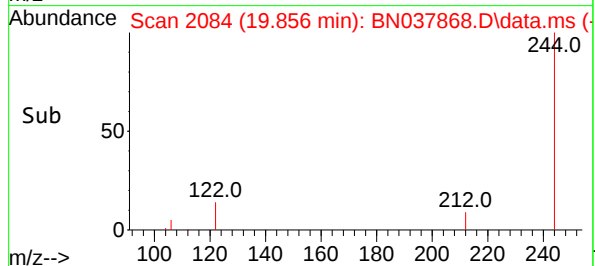
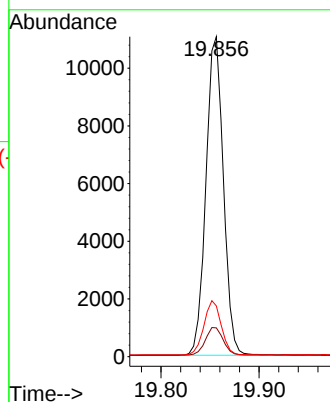
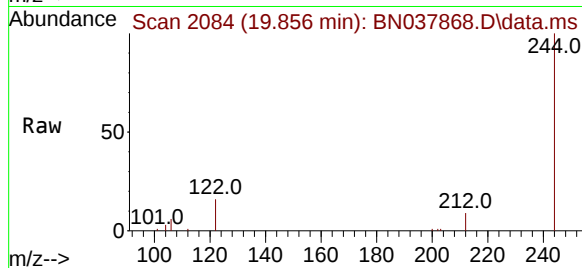
Tgt Ion:244 Resp: 13646

Ion Ratio Lower Upper

244 100

212 9.0 7.6 11.4

122 15.9 13.9 20.9



#32

Benzo(a)anthracene

Concen: 0.411 ng

RT: 21.393 min Scan# 2271

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

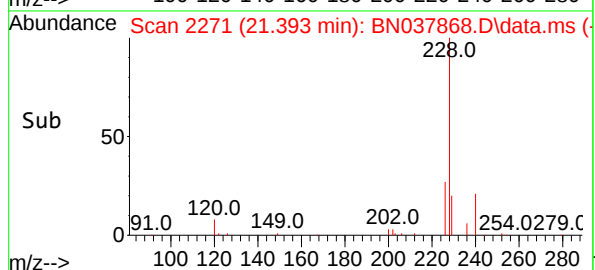
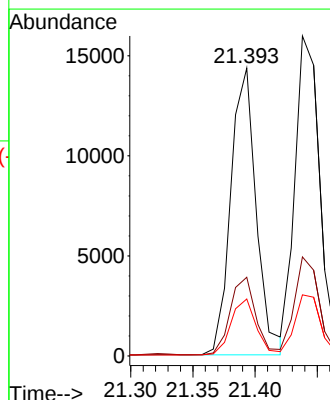
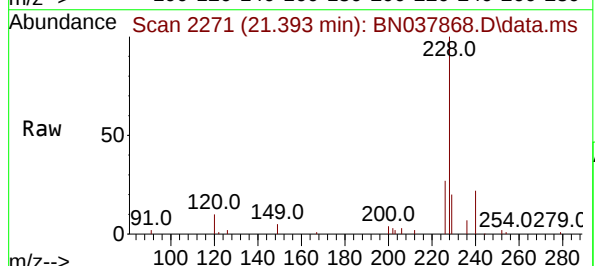
Tgt Ion:228 Resp: 20398

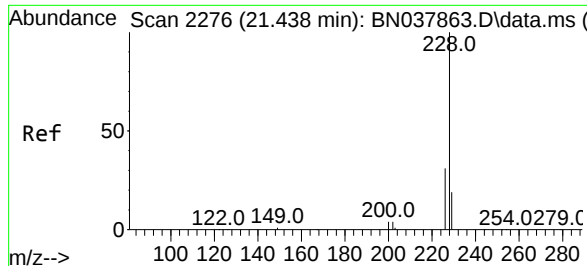
Ion Ratio Lower Upper

228 100

226 27.3 22.6 33.8

229 19.8 15.6 23.4





#33

Chrysene

Concen: 0.414 ng

RT: 21.438 min Scan# 21

Delta R.T. -0.000 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325

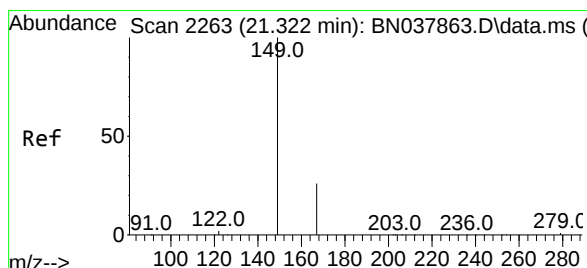
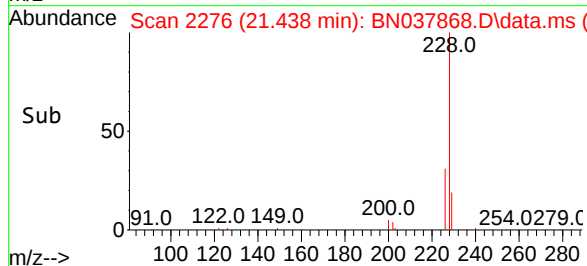
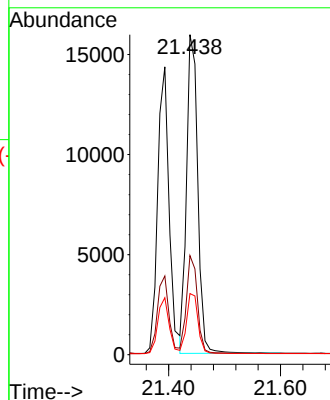
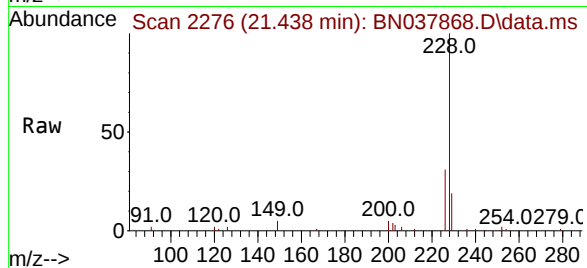
Tgt Ion:228 Resp: 22204

Ion Ratio Lower Upper

228 100

226 31.0 24.6 37.0

229 19.1 15.6 23.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.404 ng

RT: 21.331 min Scan# 2264

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

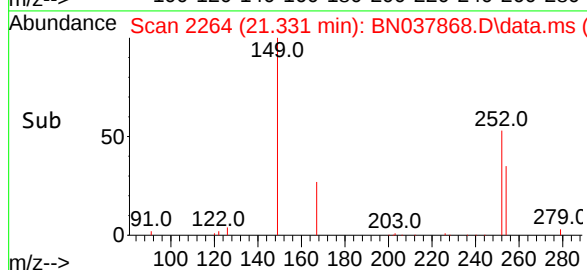
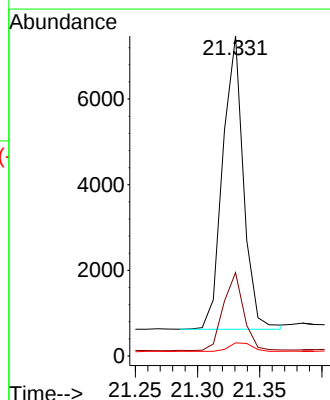
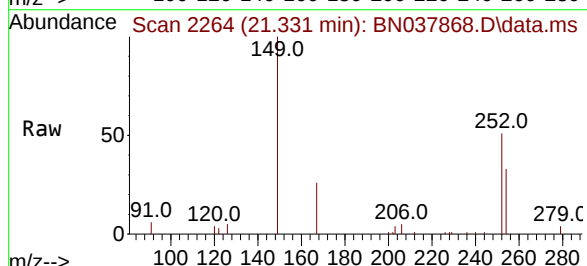
Tgt Ion:149 Resp: 7939

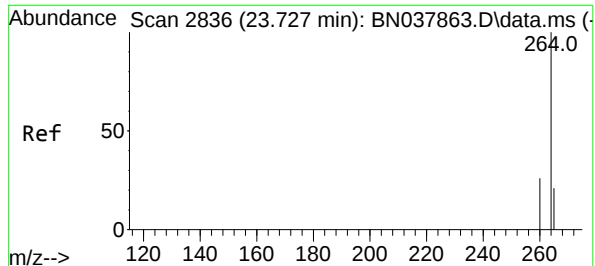
Ion Ratio Lower Upper

149 100

167 26.4 20.4 30.6

279 3.2 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.736 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037868.D

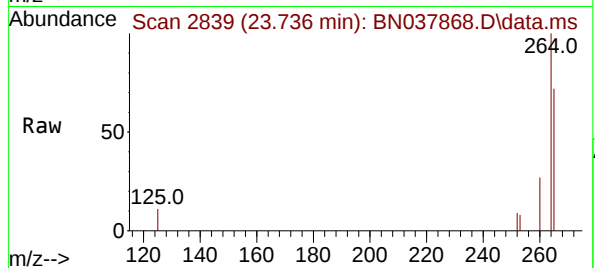
Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325



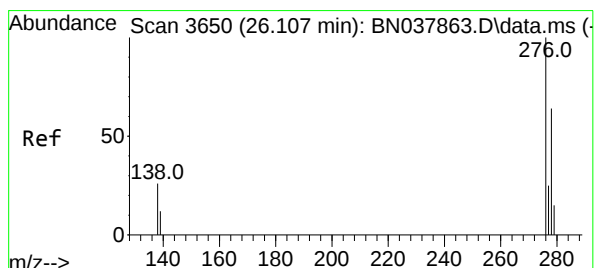
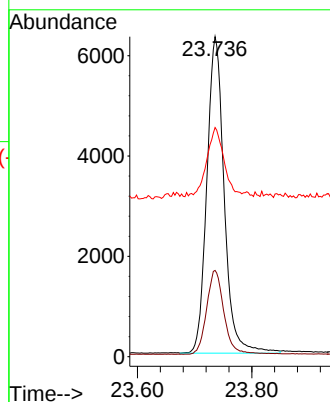
Tgt Ion:264 Resp: 13265

Ion Ratio Lower Upper

264 100

260 26.9 21.5 32.3

265 71.6 53.8 80.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.418 ng

RT: 26.115 min Scan# 3653

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

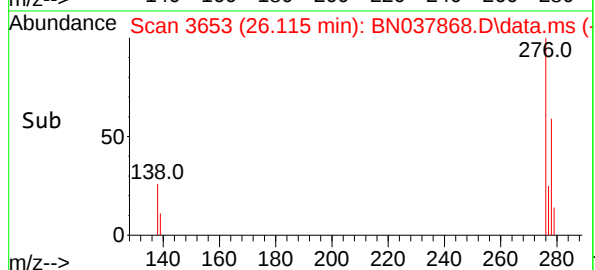
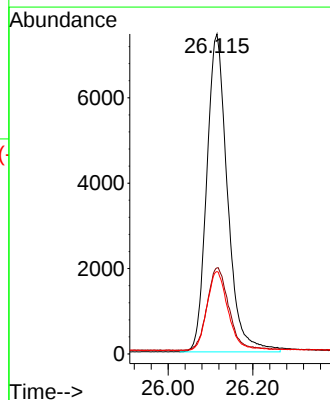
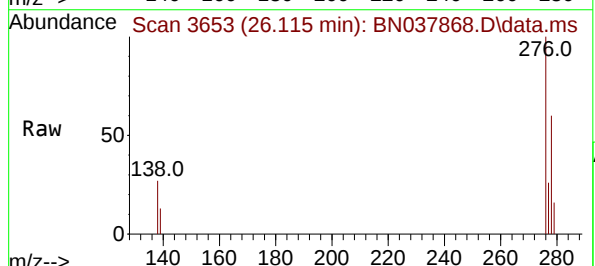
Tgt Ion:276 Resp: 25340

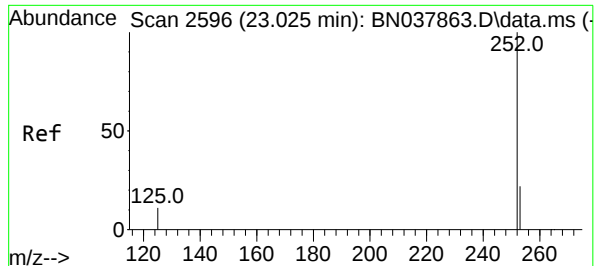
Ion Ratio Lower Upper

276 100

138 27.5 21.4 32.0

277 25.0 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.388 ng

RT: 23.031 min Scan# 2

Delta R.T. 0.006 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325

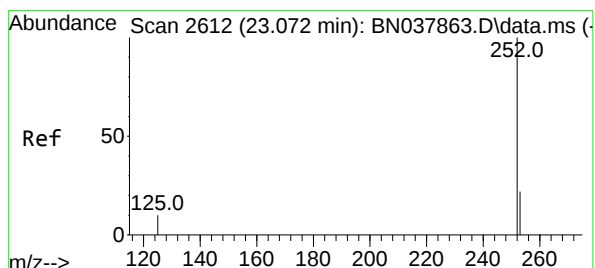
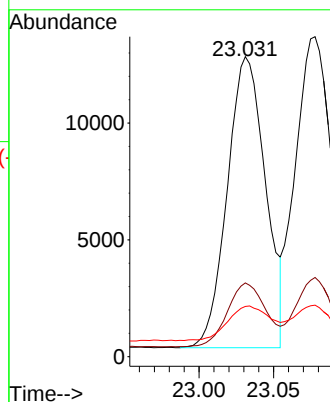
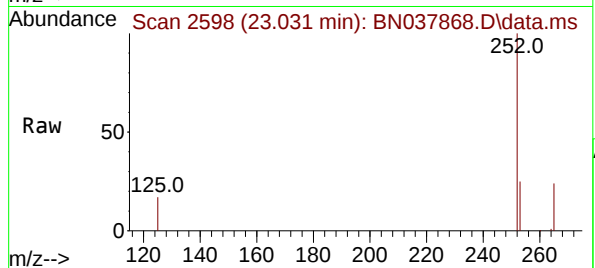
Tgt Ion:252 Resp: 22193

Ion Ratio Lower Upper

252 100

253 24.6 19.4 29.0

125 16.8 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.415 ng

RT: 23.078 min Scan# 2614

Delta R.T. 0.006 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

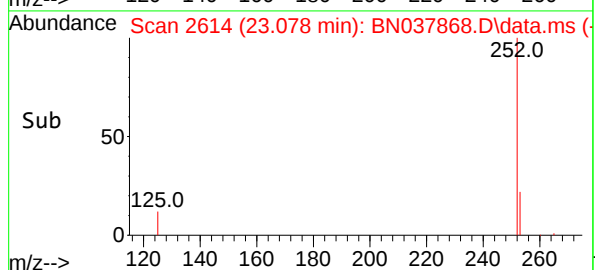
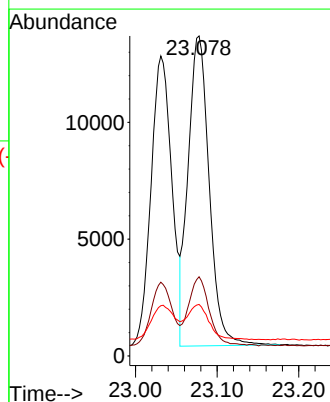
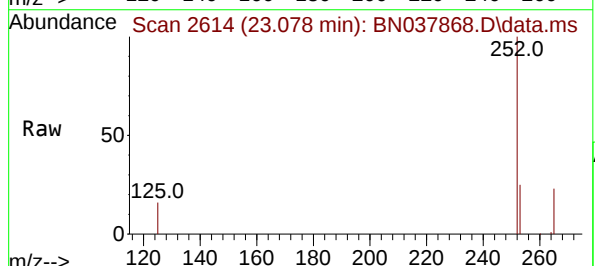
Tgt Ion:252 Resp: 23886

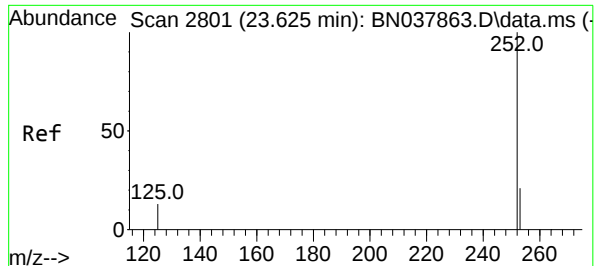
Ion Ratio Lower Upper

252 100

253 24.7 19.5 29.3

125 16.1 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.422 ng

RT: 23.633 min Scan# 21

Delta R.T. 0.009 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325

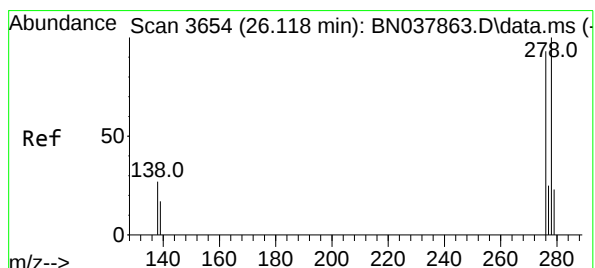
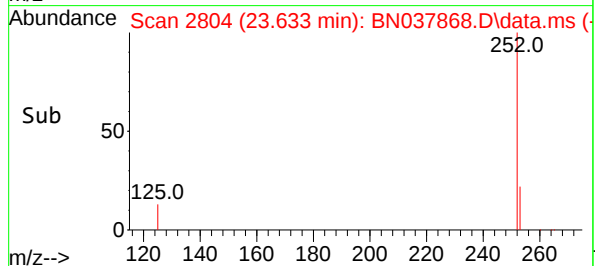
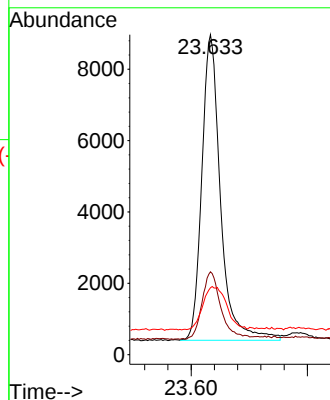
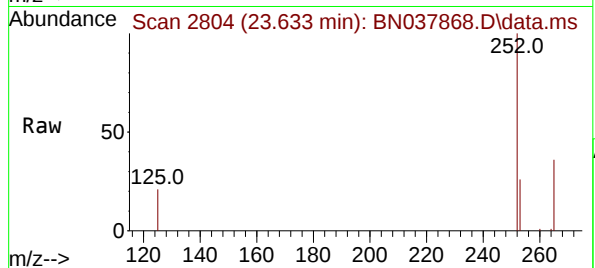
Tgt Ion:252 Resp: 19091

Ion Ratio Lower Upper

252 100

253 25.9 20.6 30.8

125 20.9 16.7 25.1



#40

Dibenzo(a,h)anthracene

Concen: 0.411 ng

RT: 26.130 min Scan# 3658

Delta R.T. 0.012 min

Lab File: BN037868.D

Acq: 23 Sep 2025 16:28

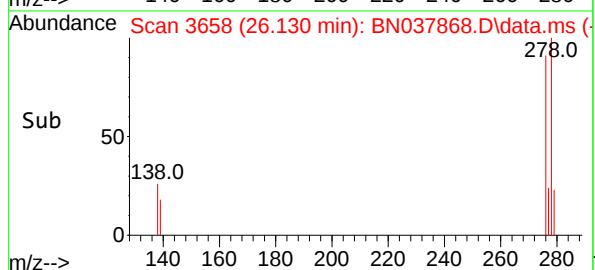
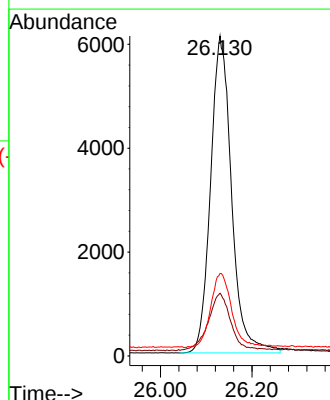
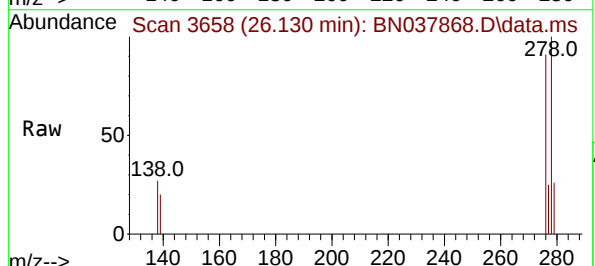
Tgt Ion:278 Resp: 19441

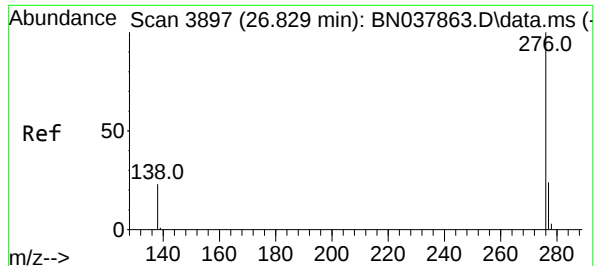
Ion Ratio Lower Upper

278 100

139 19.6 15.4 23.2

279 25.8 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.394 ng

RT: 26.841 min Scan# 3901

Delta R.T. 0.012 min

Lab File: BN037868.D

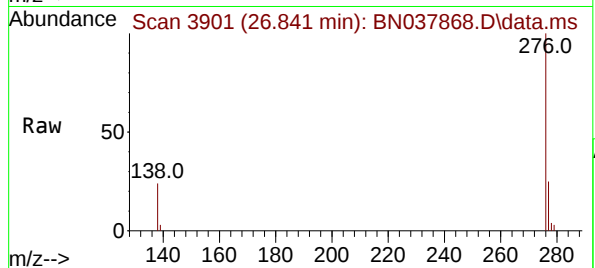
Acq: 23 Sep 2025 16:28

Instrument :

BNA\_N

ClientSampleId :

ICVBN092325



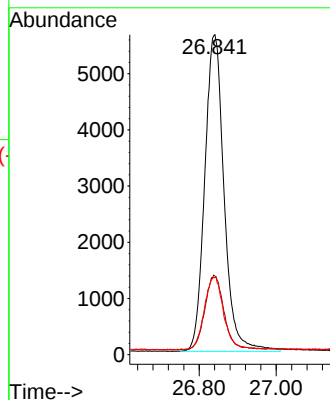
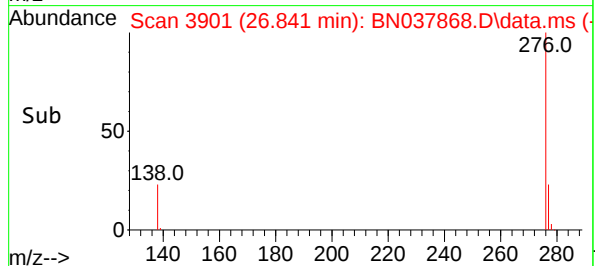
Tgt Ion:276 Resp: 19570

Ion Ratio Lower Upper

276 100

277 24.5 20.2 30.4

138 24.1 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
 Data File : BN037868.D  
 Acq On : 23 Sep 2025 16:28  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN092325

Quant Time: Sep 24 11:02:35 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 11:00:01 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   | 100   | 0.00     |
| 2       | 1,4-Dioxane                | 0.406 | 0.484 | -19.2 | 118   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.540 | 0.551 | -2.0  | 106   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.913 | 0.898 | 1.6   | 105   | 0.00     |
| 5 S     | Phenol-d6                  | 1.199 | 1.144 | 4.6   | 102   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 1.113 | 1.225 | -10.1 | 113   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.305 | 0.337 | -10.5 | 119   | 0.00     |
| 9       | Naphthalene                | 1.102 | 1.138 | -3.3  | 111   | 0.01     |
| 10      | Hexachlorobutadiene        | 0.188 | 0.201 | -6.9  | 113   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.556 | 0.587 | -5.6  | 121   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.720 | 0.675 | 6.2   | 103   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.152 | 0.131 | 13.8  | 99    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.638 | 1.984 | -21.1 | 130   | 0.01     |
| 16      | Acenaphthylene             | 1.816 | 1.984 | -9.3  | 122   | 0.00     |
| 17      | Acenaphthene               | 1.294 | 1.312 | -1.4  | 112   | 0.00     |
| 18      | Fluorene                   | 1.565 | 1.581 | -1.0  | 111   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 102   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.057 | 0.045 | 21.1  | 106   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.261 | 0.255 | 2.3   | 107   | 0.00     |
| 22      | Hexachlorobenzene          | 0.316 | 0.335 | -6.0  | 112   | 0.00     |
| 23      | Atrazine                   | 0.199 | 0.196 | 1.5   | 117   | 0.00     |
| 24      | Pentachlorophenol          | 0.108 | 0.086 | 20.4  | 95    | 0.00     |
| 25      | Phenanthrene               | 1.316 | 1.353 | -2.8  | 112   | 0.00     |
| 26      | Anthracene                 | 1.142 | 1.165 | -2.0  | 116   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.006 | 1.039 | -3.3  | 120   | 0.00     |
| 28      | Fluoranthene               | 1.450 | 1.416 | 2.3   | 110   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 30      | Pyrene                     | 1.579 | 1.588 | -0.6  | 109   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.797 | 0.961 | -20.6 | 133   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.398 | 1.436 | -2.7  | 116   | 0.00     |
| 33      | Chrysene                   | 1.512 | 1.563 | -3.4  | 112   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.559 | -1.1  | 120   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 105   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.828 | 1.910 | -4.5  | 121   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.725 | 1.673 | 3.0   | 108   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.736 | 1.801 | -3.7  | 119   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.364 | 1.439 | -5.5  | 123   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.427 | 1.466 | -2.7  | 119   | 0.01     |
| 41      | Benzo(g,h,i)perylene       | 1.499 | 1.475 | 1.6   | 111   | 0.01     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
 Data File : BN037868.D  
 Acq On : 23 Sep 2025 16:28  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN092325

Quant Time: Sep 24 11:02:35 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 11:00:01 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   | 100   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.477 | -19.2 | 118   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.408 | -2.0  | 106   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.394 | 1.5   | 105   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.382 | 4.5   | 102   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.440 | -10.0 | 113   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 102   | 0.00     |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.442 | -10.5 | 119   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.413 | -3.2  | 111   | 0.01     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.428 | -7.0  | 113   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.423 | -5.7  | 121   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.375 | 6.3   | 103   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 102   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.346 | 13.5  | 99    | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.485 | -21.2 | 130   | 0.01     |
| 16      | Acenaphthylene             | 0.400  | 0.437 | -9.2  | 122   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.406 | -1.5  | 112   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.404 | -1.0  | 111   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 102   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.418 | -4.5  | 106   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.392 | 2.0   | 107   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.424 | -6.0  | 112   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.396 | 1.0   | 117   | 0.00     |
| 24      | Pentachlorophenol          | 0.400  | 0.316 | 21.0  | 95    | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.411 | -2.7  | 112   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.408 | -2.0  | 116   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.413 | -3.2  | 120   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.391 | 2.3   | 110   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 105   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.402 | -0.5  | 109   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.482 | -20.5 | 133   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.411 | -2.7  | 116   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.414 | -3.5  | 112   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.404 | -1.0  | 120   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 105   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.418 | -4.5  | 121   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.388 | 3.0   | 108   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.415 | -3.7  | 119   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.422 | -5.5  | 123   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.411 | -2.7  | 119   | 0.01     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.394 | 1.5   | 111   | 0.01     |

(#) = 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: TETR06  
 Lab Code: ACE SDG No.: Q3213  
 Instrument ID: BNA\_N Calibration Date/Time: 10/06/2025 23:32  
 Lab File ID: BN038022.D Init. Calib. Date(s): 09/23/2025 09/23/2025  
 EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 12:13 15:51  
 GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.556 | 0.504  |            | -9.4  | 20.0  |
| Fluoranthene-d10        | 1.006 | 0.813  |            | -19.2 | 20.0  |
| 2-Fluorophenol          | 0.913 | 0.764  |            | -16.3 | 20.0  |
| Phenol-d6               | 1.199 | 1.067  |            | -11.0 | 20.0  |
| Nitrobenzene-d5         | 0.305 | 0.290  |            | -4.9  | 20.0  |
| 2-Fluorobiphenyl        | 1.638 | 1.579  |            | -3.6  | 20.0  |
| 2,4,6-Tribromophenol    | 0.152 | 0.125  |            | -17.8 | 20.0  |
| Terphenyl-d14           | 0.797 | 0.905  |            | 13.6  | 20.0  |
| 1,4-Dioxane             | 0.406 | 0.372  |            | -8.4  | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
 Data File : BN038022.D  
 Acq On : 06 Oct 2025 23:32  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

### Manual Integrations APPROVED

Reviewed By :Rahul Chavli 10/07/2025  
 Supervised By :Jagrut Upadhyay 10/07/2025

Quant Time: Oct 07 01:41:02 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 11:00:01 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.804  | 152  | 8262     | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8             | 10.605 | 136  | 22968    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.462 | 164  | 12134    | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.210 | 188  | 22733    | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.384 | 240  | 13562    | 0.400 | ng    | #-0.02   |
| 35) Perylene-d12              | 23.703 | 264  | 10530    | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.370  | 112  | 6312     | 0.335 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.959  | 99   | 8816     | 0.356 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.950  | 82   | 6668     | 0.381 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 12.202 | 152  | 11565    | 0.362 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.944 | 330  | 1512     | 0.329 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 13.083 | 172  | 19165    | 0.386 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.238 | 212  | 18490    | 0.323 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.838 | 244  | 12280    | 0.455 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.290  | 88   | 3071     | 0.366 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.593  | 42   | 3991     | 0.358 | ng    | # 89     |
| 6) bis(2-Chloroethyl)ether    | 7.226  | 93   | 8808     | 0.383 | ng    | 98       |
| 9) Naphthalene                | 10.658 | 128  | 24498    | 0.387 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.957 | 225  | 4360     | 0.404 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.273 | 142  | 15485    | 0.375 | ng    | 98       |
| 16) Acenaphthylene            | 14.174 | 152  | 21062    | 0.382 | ng    | 100      |
| 17) Acenaphthene              | 14.516 | 154  | 14495    | 0.369 | ng    | 98       |
| 18) Fluorene                  | 15.510 | 166  | 16302    | 0.343 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.584 | 198  | 897      | 0.375 | ng    | # 88     |
| 21) 4-Bromophenyl-phenylether | 16.404 | 248  | 5704     | 0.385 | ng    | # 87     |
| 22) Hexachlorobenzene         | 16.515 | 284  | 7267     | 0.405 | ng    | 98       |
| 23) Atrazine                  | 16.664 | 200  | 3424     | 0.304 | ng    | # 91     |
| 24) Pentachlorophenol         | 16.863 | 266  | 5132     | 0.833 | ng    | 97       |
| 25) Phenanthrene              | 17.248 | 178  | 28024    | 0.375 | ng    | 100      |
| 26) Anthracene                | 17.335 | 178  | 23199    | 0.357 | ng    | 100      |
| 28) Fluoranthene              | 19.266 | 202  | 27243    | 0.331 | ng    | 99       |
| 30) Pyrene                    | 19.629 | 202  | 26066    | 0.487 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.366 | 228  | 17879    | 0.377 | ng    | 100      |
| 33) Chrysene                  | 21.420 | 228  | 20217    | 0.394 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.304 | 149  | 5945     | 0.317 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 26.069 | 276  | 19936    | 0.414 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 23.005 | 252  | 18682m   | 0.411 | ng    |          |
| 38) Benzo(k)fluoranthene      | 23.048 | 252  | 17538    | 0.384 | ng    | 96       |
| 39) Benzo(a)pyrene            | 23.601 | 252  | 13760    | 0.383 | ng    | # 89     |
| 40) Dibenzo(a,h)anthracene    | 26.083 | 278  | 15307    | 0.407 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 26.791 | 276  | 16776    | 0.425 | ng    | 98       |

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

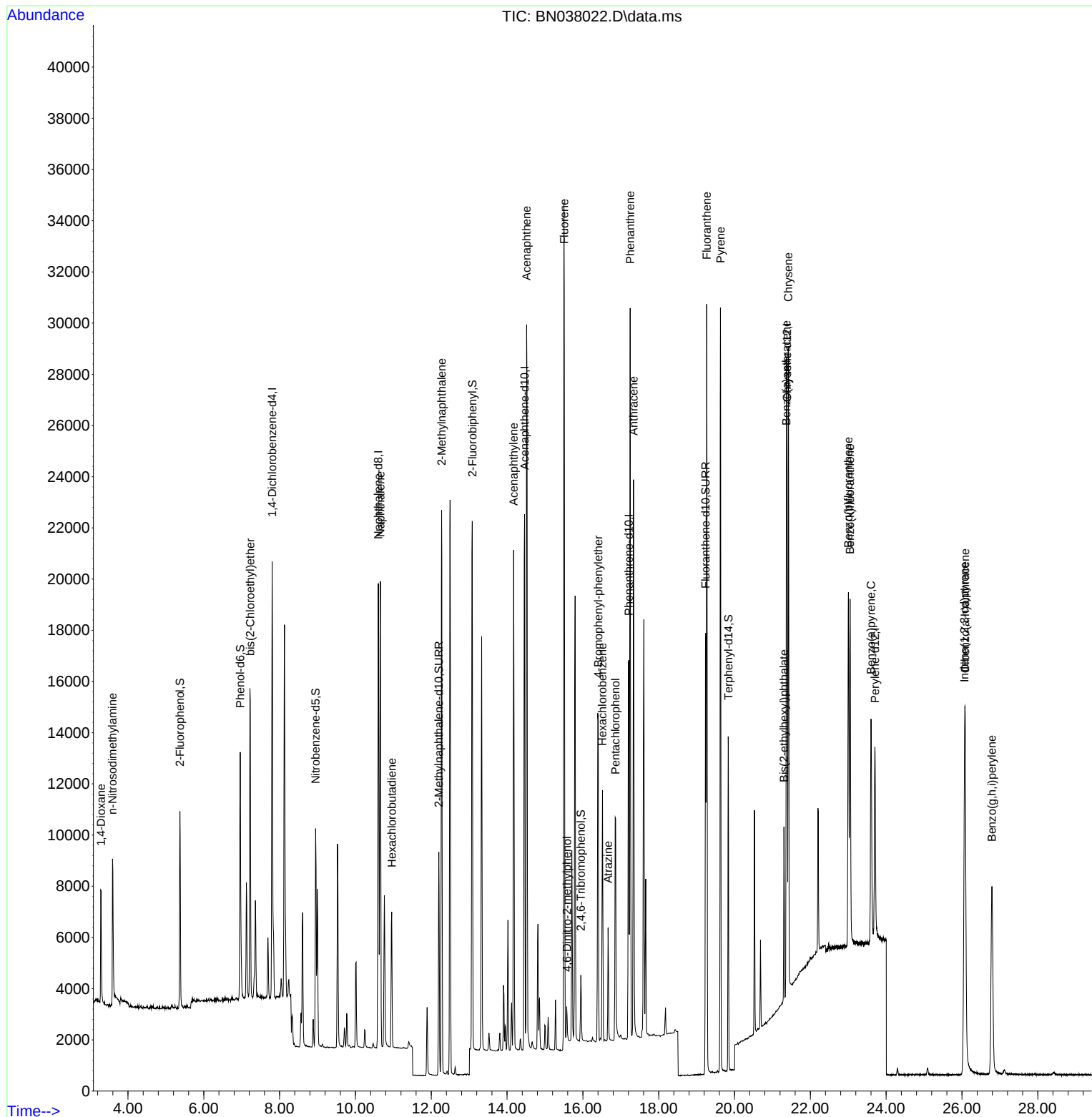
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038022.D  
Acq On : 06 Oct 2025 23:32  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

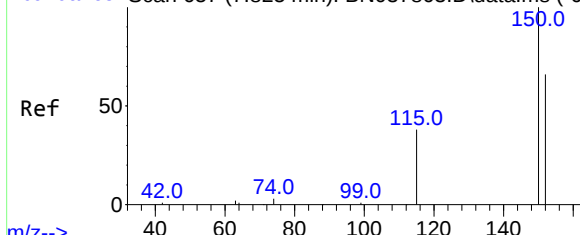
Manual Integrations  
APPROVED

Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025

Quant Time: Oct 07 01:41:02 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

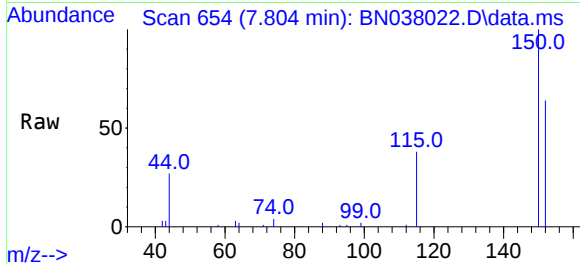
Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

m/z--&gt; Abundance Scan 654 (7.804 min): BN038022.D\data.ms



Tgt Ion:152 Resp: 826

Ion Ratio Lower Upper

152 100

150 155.5 121.0 181.4

115 58.7 47.4 71.0

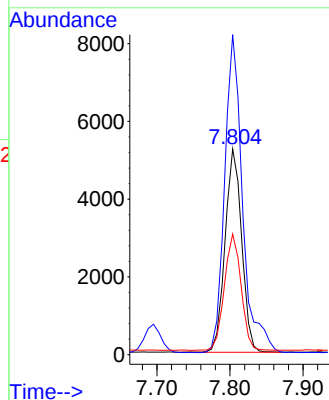
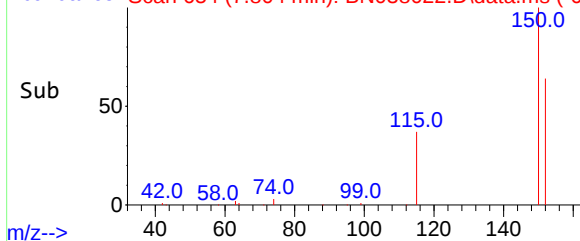
Manual Integrations

APPROVED

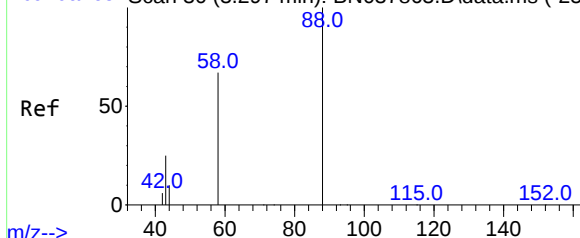
Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025

Abundance Scan 654 (7.804 min): BN038022.D\data.ms (-62



Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



#2

1,4-Dioxane

Concen: 0.366 ng

RT: 3.290 min Scan# 29

Delta R.T. -0.007 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Tgt Ion: 88 Resp: 3071

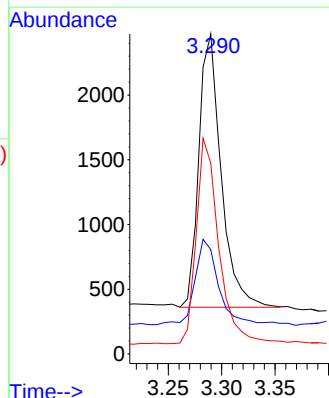
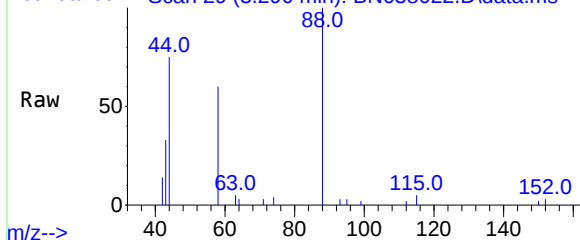
Ion Ratio Lower Upper

88 100

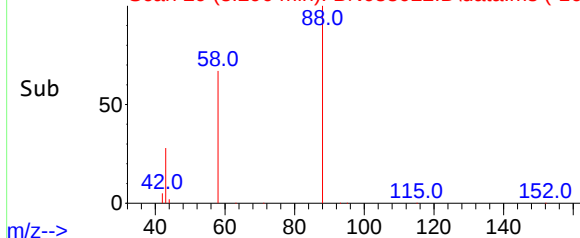
43 33.2 26.6 39.8

58 76.2 58.9 88.3

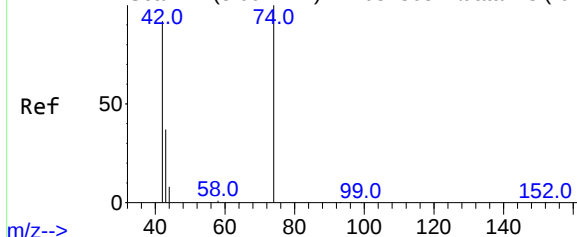
m/z--&gt; Abundance Scan 29 (3.290 min): BN038022.D\data.ms



Abundance Scan 29 (3.290 min): BN038022.D\data.ms (-16)



Abundance Scan 72 (3.601 min): BN037863.D\data.ms (-67)



#3

n-Nitrosodimethylamine

Concen: 0.358 ng

RT: 3.593 min Scan# 71

Delta R.T. -0.007 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 399

Ion Ratio Lower Upper

42 100

74 112.4 93.4 140.0

44 6.7 22.2 33.4

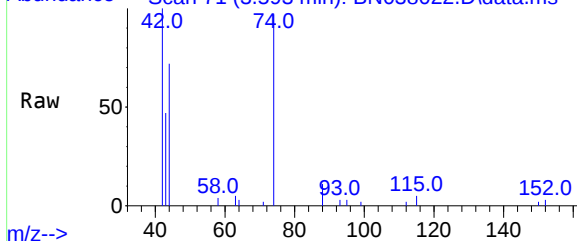
Manual Integrations

APPROVED

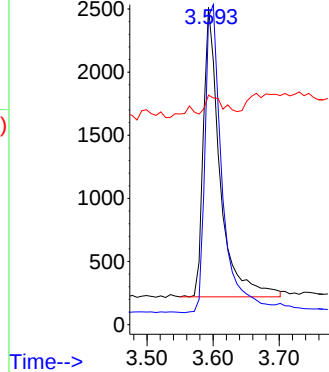
Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025

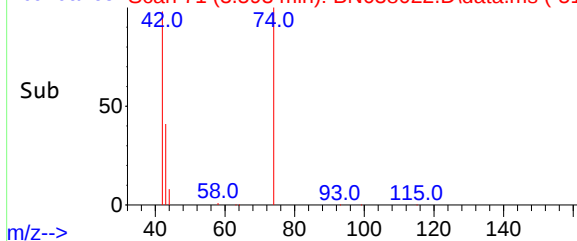
Abundance Scan 71 (3.593 min): BN038022.D\data.ms



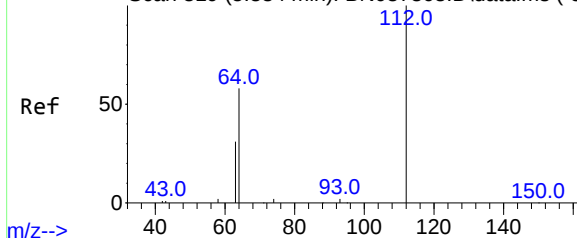
Abundance



Abundance Scan 71 (3.593 min): BN038022.D\data.ms (-51)



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.335 ng

RT: 5.370 min Scan# 317

Delta R.T. -0.015 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Tgt Ion:112 Resp: 6312

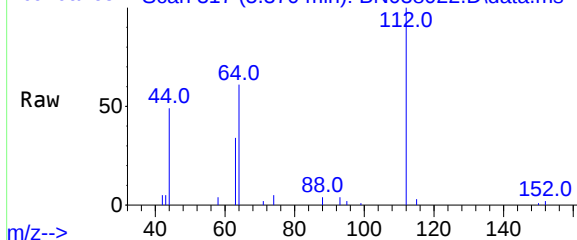
Ion Ratio Lower Upper

112 100

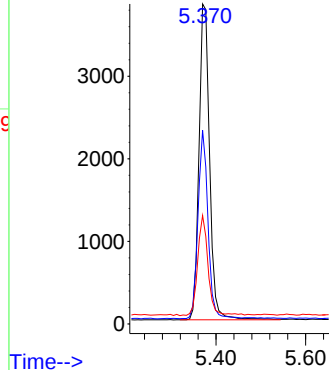
64 55.8 44.6 66.8

63 30.4 24.9 37.3

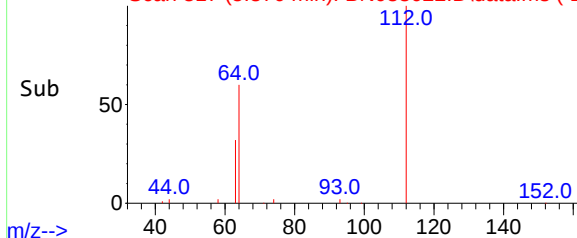
Abundance Scan 317 (5.370 min): BN038022.D\data.ms

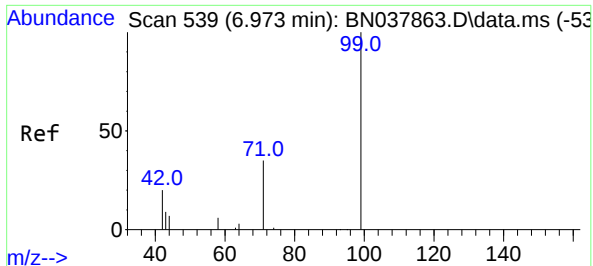


Abundance



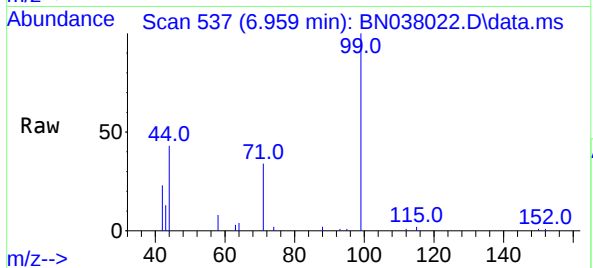
Abundance Scan 317 (5.370 min): BN038022.D\data.ms (-29)





#5  
Phenol-d6  
Concen: 0.356 ng  
RT: 6.959 min Scan# 51  
Delta R.T. -0.015 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

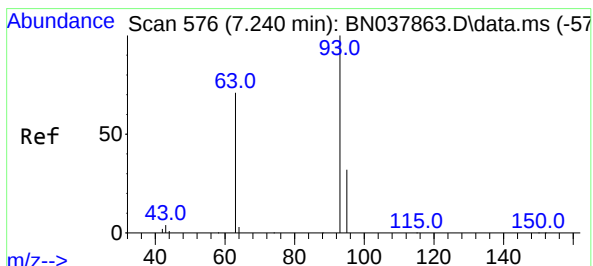
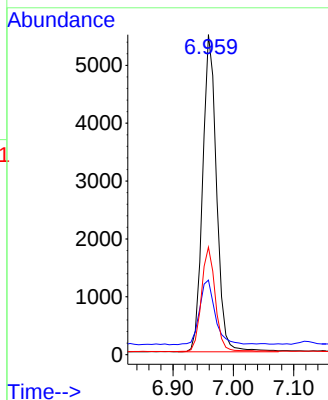
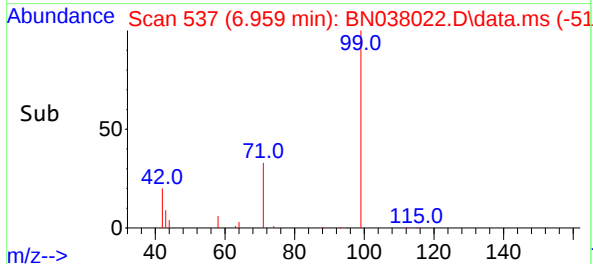
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



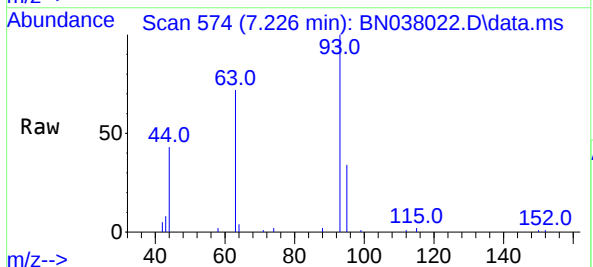
Tgt Ion: 99 Resp: 8810  
Ion Ratio Lower Upper  
99 100  
42 22.9 17.2 25.8  
71 33.2 27.3 40.9

Manual Integrations  
APPROVED

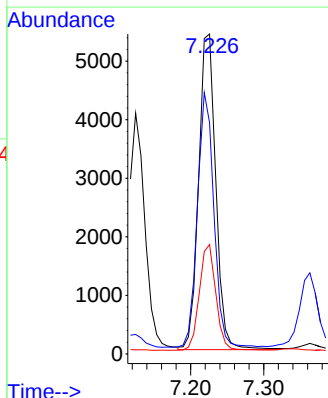
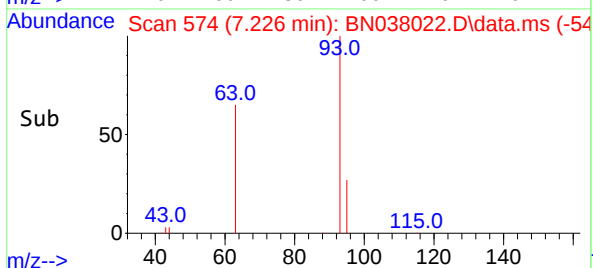
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025

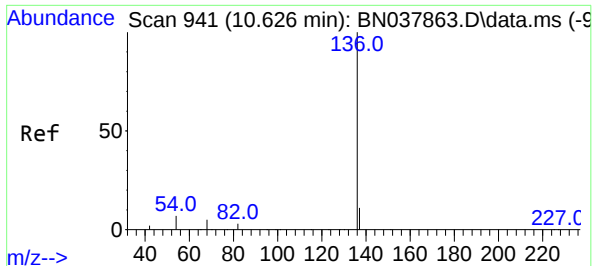


#6  
bis(2-Chloroethyl)ether  
Concen: 0.383 ng  
RT: 7.226 min Scan# 574  
Delta R.T. -0.015 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32



Tgt Ion: 93 Resp: 8808  
Ion Ratio Lower Upper  
93 100  
63 77.4 60.1 90.1  
95 32.2 25.4 38.2





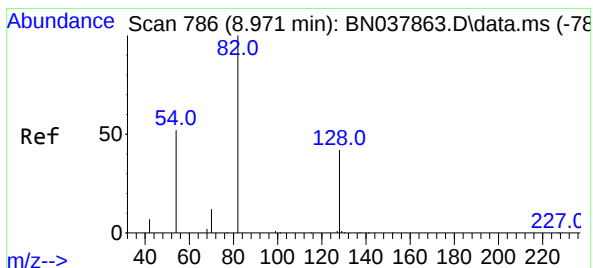
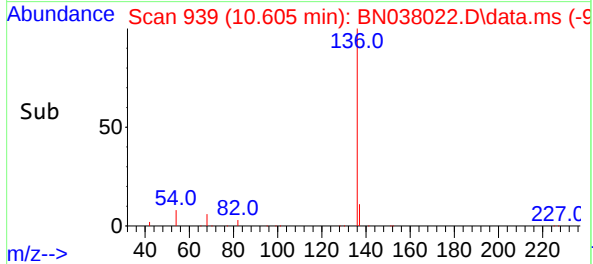
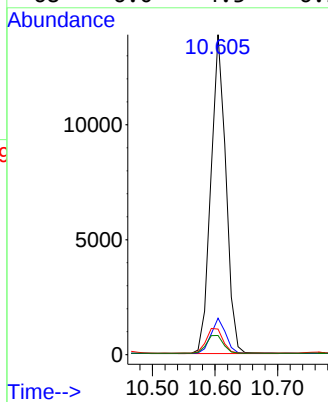
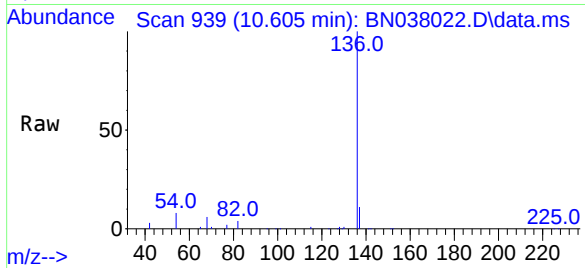
#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.605 min Scan# 91  
Delta R.T. -0.022 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 2296  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.4  | 9.0   | 13.4  |
| 54       | 8.0   | 5.8   | 8.8   |
| 68       | 6.0   | 4.3   | 6.5   |

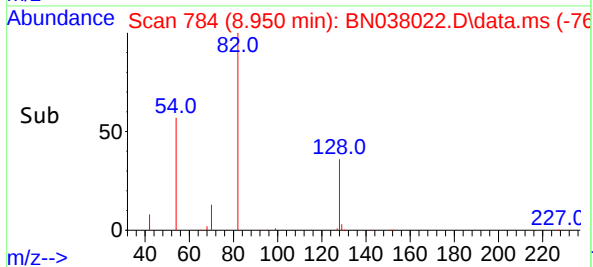
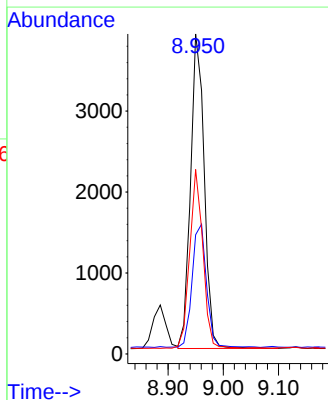
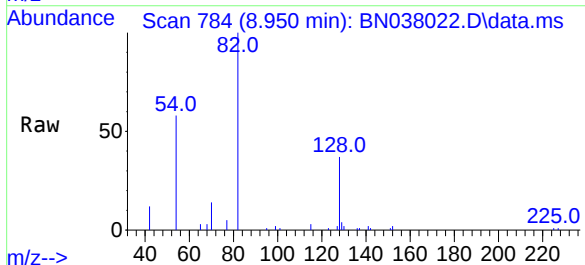
Manual Integrations  
APPROVED

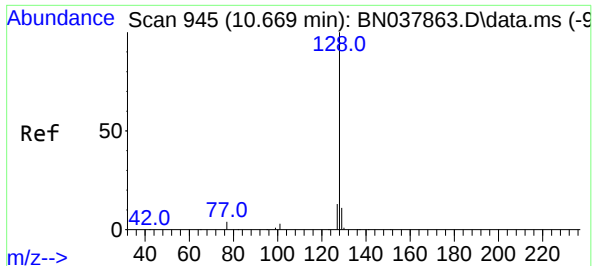
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025



#8  
Nitrobenzene-d5  
Concen: 0.381 ng  
RT: 8.950 min Scan# 784  
Delta R.T. -0.022 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 6668  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 37.3  | 34.8  | 52.2  |
| 54       | 57.7  | 42.2  | 63.2  |





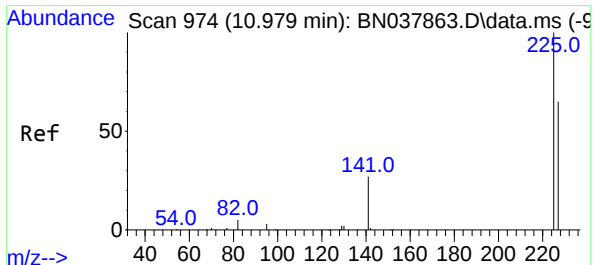
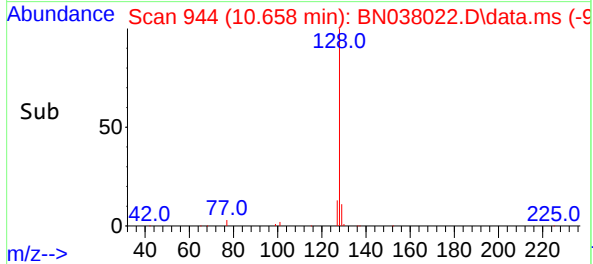
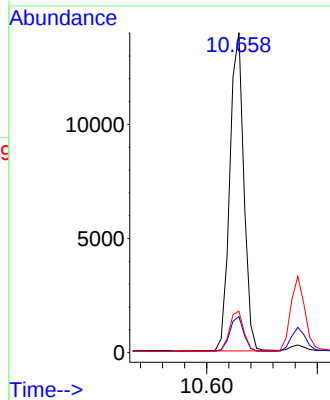
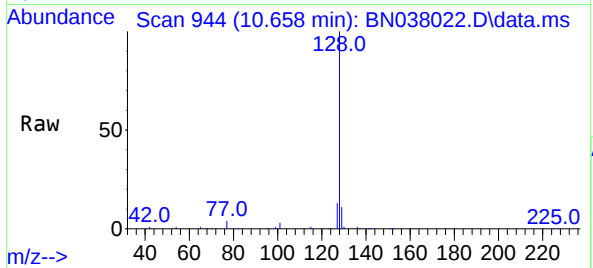
#9  
Naphthalene  
Concen: 0.387 ng  
RT: 10.658 min Scan# 945  
Delta R.T. -0.011 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:128 Resp: 24498  
Ion Ratio Lower Upper  
128 100  
129 11.3 9.2 13.8  
127 13.0 11.0 16.6

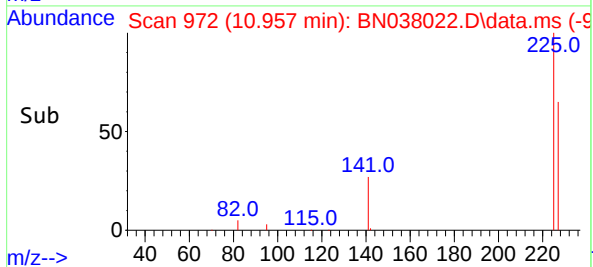
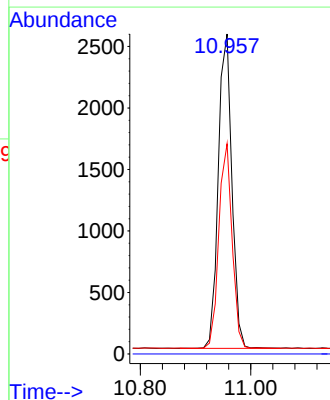
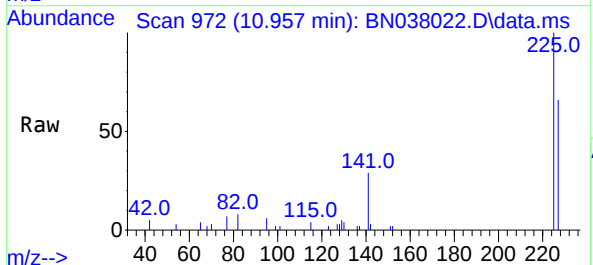
Manual Integrations  
APPROVED

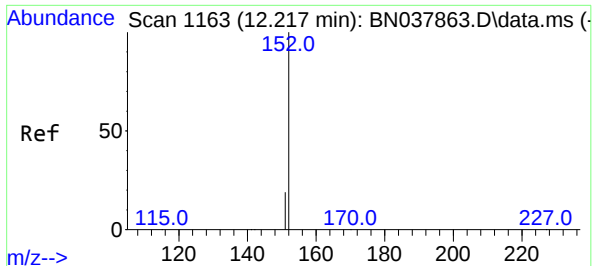
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025



#10  
Hexachlorobutadiene  
Concen: 0.404 ng  
RT: 10.957 min Scan# 972  
Delta R.T. -0.022 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

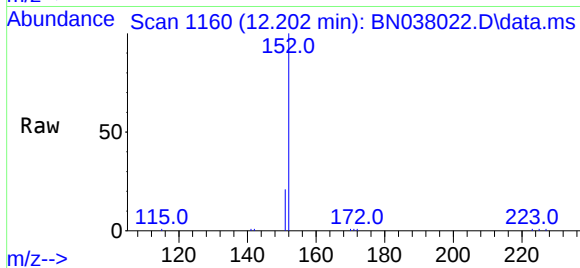
Tgt Ion:225 Resp: 4360  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.5 51.4 77.2





#11  
2-Methylnaphthalene-d10  
Concen: 0.362 ng  
RT: 12.202 min Scan# 1163  
Delta R.T. -0.015 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

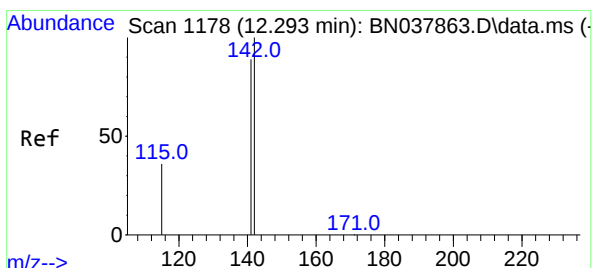
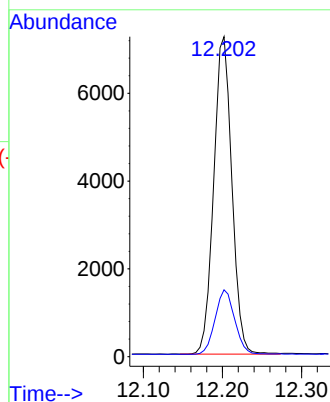
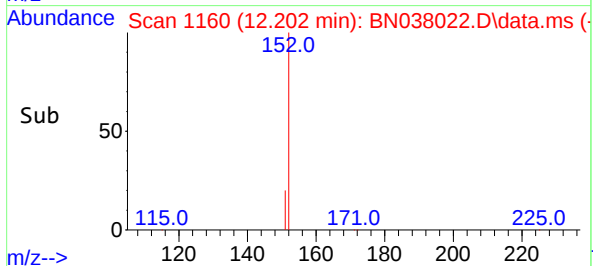
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



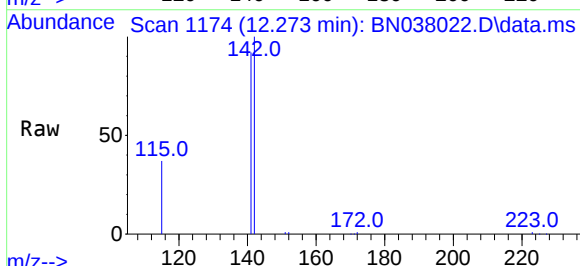
Tgt Ion:152 Resp: 1156  
Ion Ratio Lower Upper  
152 100  
151 21.9 17.4 26.2

Manual Integrations  
APPROVED

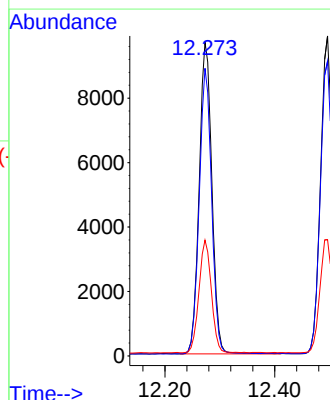
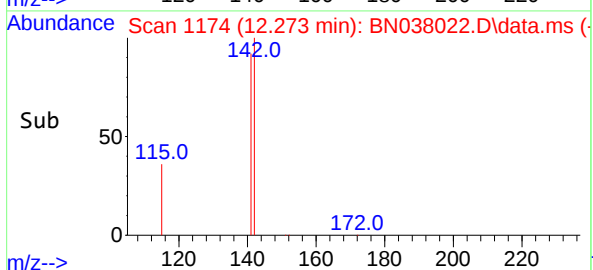
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025

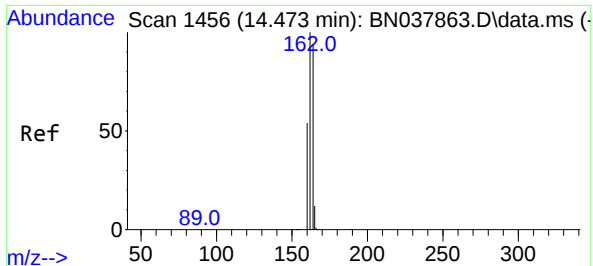


#12  
2-Methylnaphthalene  
Concen: 0.375 ng  
RT: 12.273 min Scan# 1174  
Delta R.T. -0.021 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32



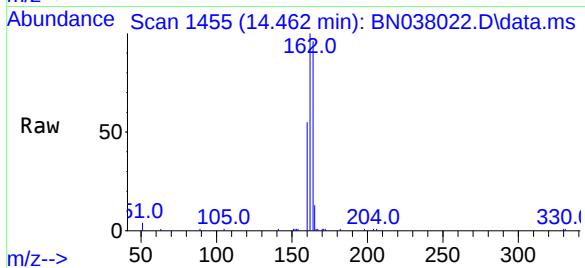
Tgt Ion:142 Resp: 15485  
Ion Ratio Lower Upper  
142 100  
141 91.7 71.2 106.8  
115 36.9 29.7 44.5





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.462 min Scan# 1456  
Delta R.T. -0.011 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

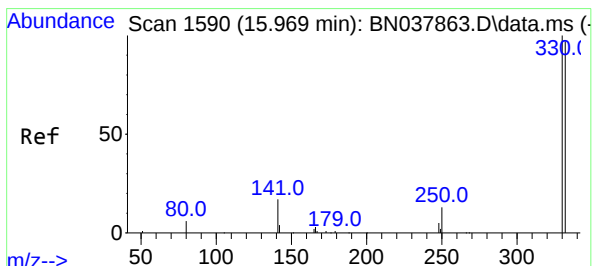
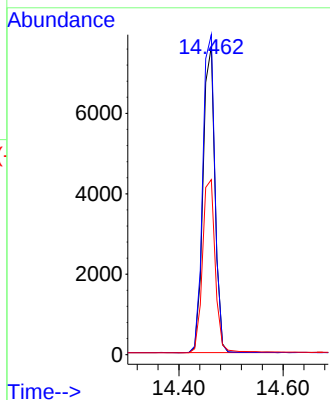
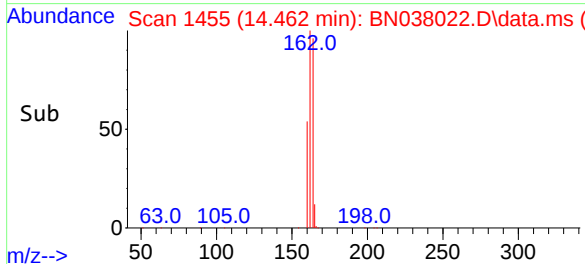
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



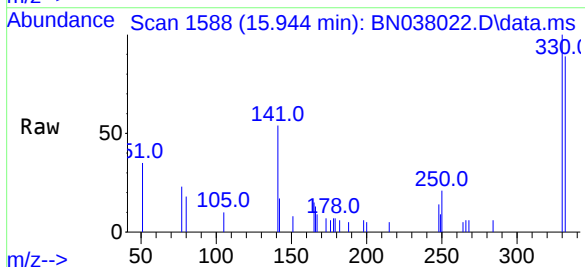
Tgt Ion:164 Resp: 12134  
Ion Ratio Lower Upper  
164 100  
162 103.9 84.8 127.2  
160 56.8 46.1 69.1

Manual Integrations  
APPROVED

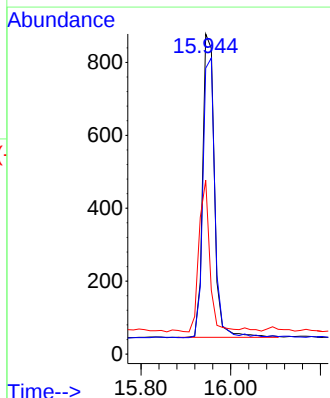
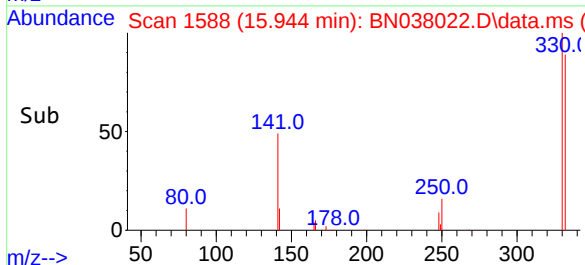
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025

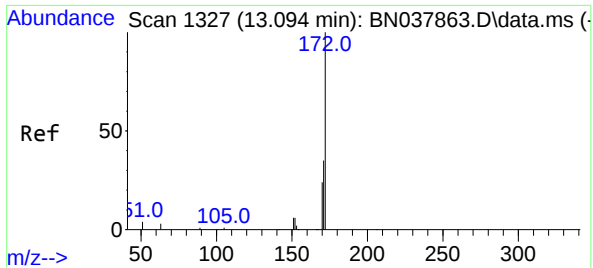


#14  
2,4,6-Tribromophenol  
Concen: 0.329 ng  
RT: 15.944 min Scan# 1588  
Delta R.T. -0.025 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32



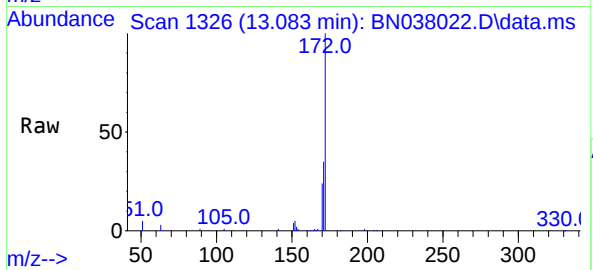
Tgt Ion:330 Resp: 1512  
Ion Ratio Lower Upper  
330 100  
332 94.4 77.2 115.8  
141 45.7 37.2 55.8





#15  
2-Fluorobiphenyl  
Concen: 0.386 ng  
RT: 13.083 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

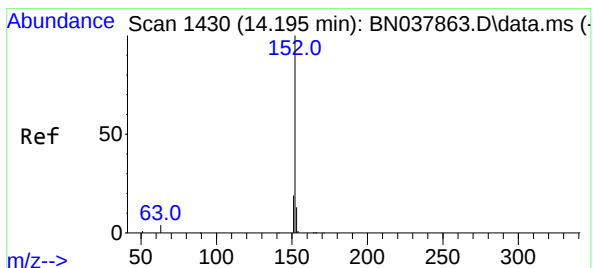
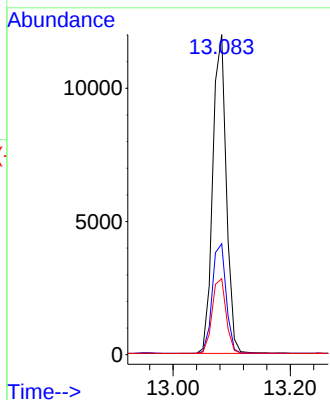
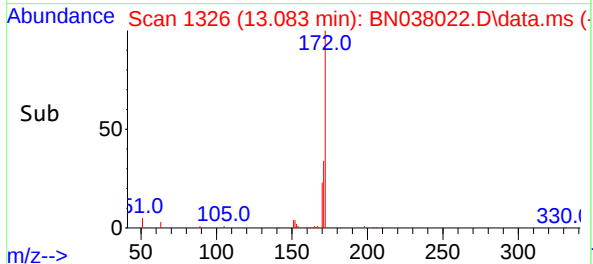
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:172 Resp: 1916  
Ion Ratio Lower Upper  
172 100  
171 34.7 28.6 43.0  
170 23.7 19.7 29.5

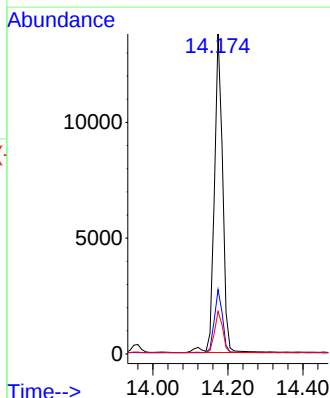
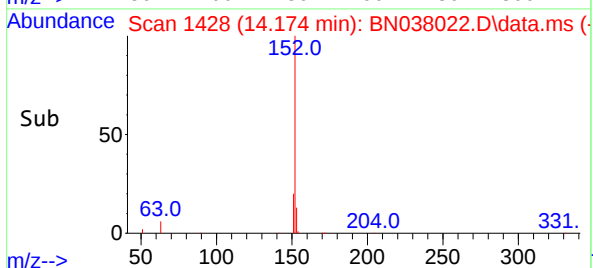
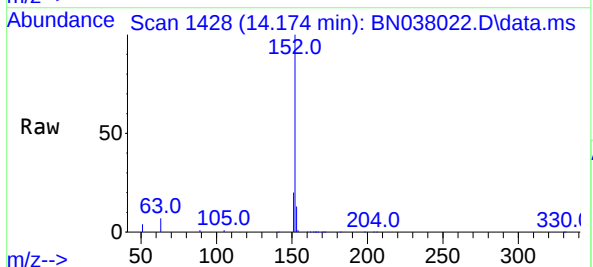
Manual Integrations  
APPROVED

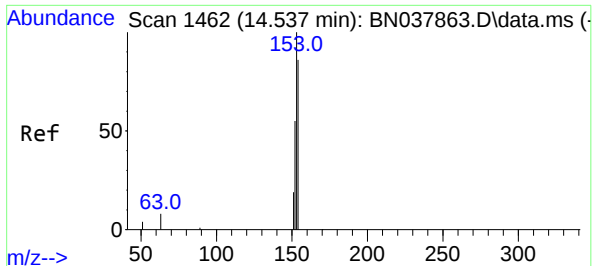
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025



#16  
Acenaphthylene  
Concen: 0.382 ng  
RT: 14.174 min Scan# 1428  
Delta R.T. -0.022 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

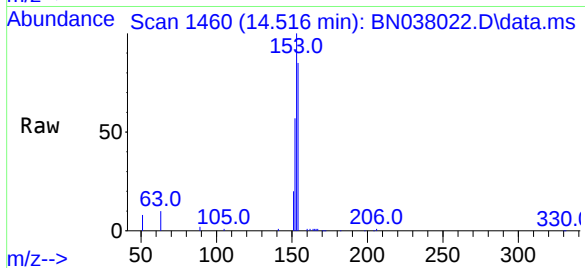
Tgt Ion:152 Resp: 21062  
Ion Ratio Lower Upper  
152 100  
151 19.8 15.8 23.8  
153 13.0 10.5 15.7





#17  
Acenaphthene  
Concen: 0.369 ng  
RT: 14.516 min Scan# 1449  
Delta R.T. -0.022 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

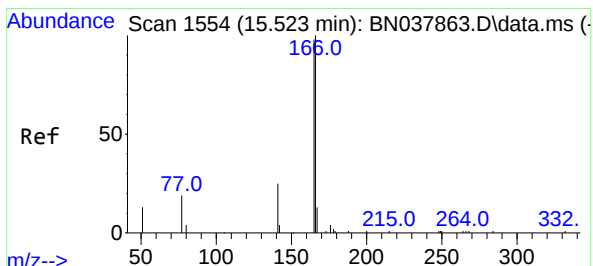
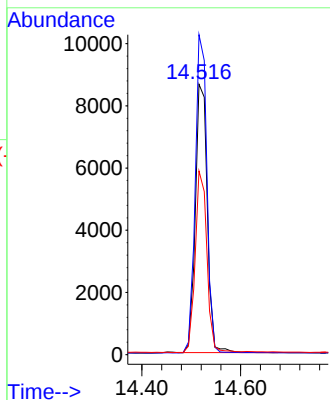
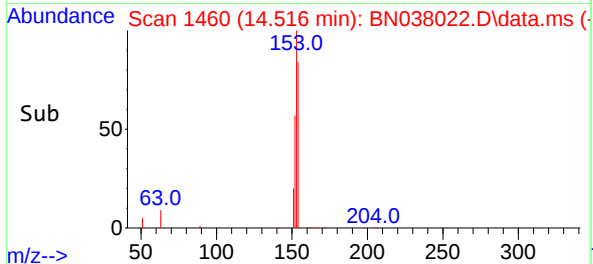
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



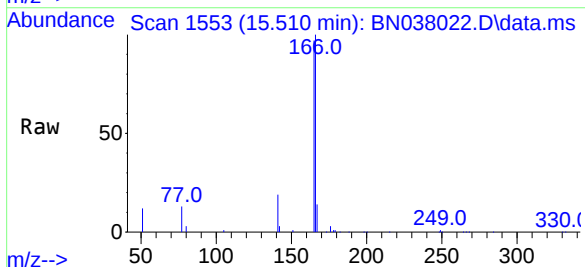
Tgt Ion:154 Resp: 1449  
Ion Ratio Lower Upper  
154 100  
153 115.5 90.5 135.7  
152 66.5 51.8 77.8

Manual Integrations  
**APPROVED**

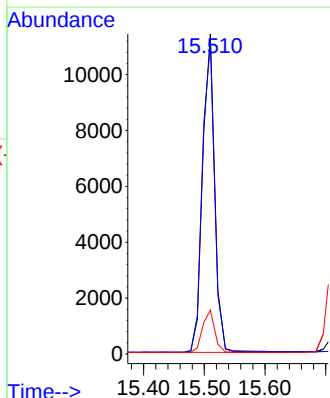
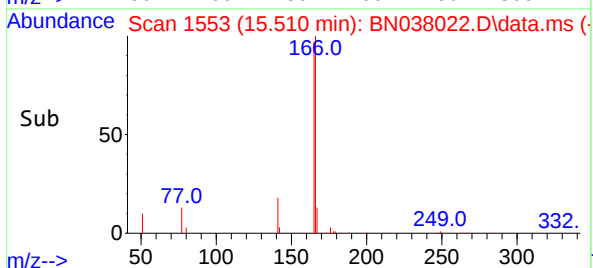
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025

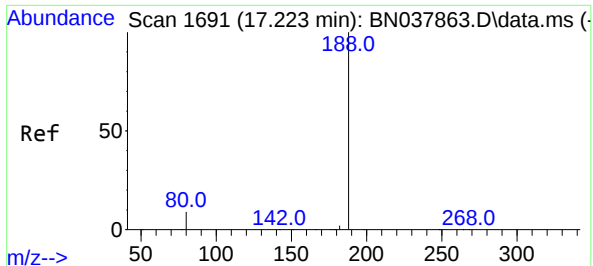


#18  
Fluorene  
Concen: 0.343 ng  
RT: 15.510 min Scan# 1553  
Delta R.T. -0.013 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32



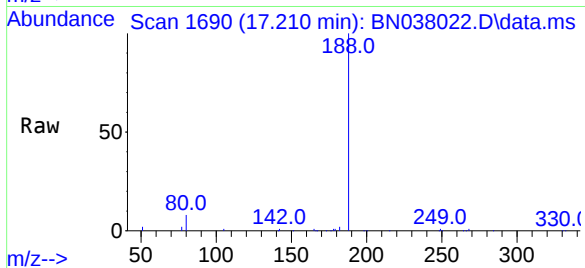
Tgt Ion:166 Resp: 16302  
Ion Ratio Lower Upper  
166 100  
165 99.1 79.0 118.4  
167 13.7 10.6 16.0





#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.210 min Scan# 1690  
Delta R.T. -0.013 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

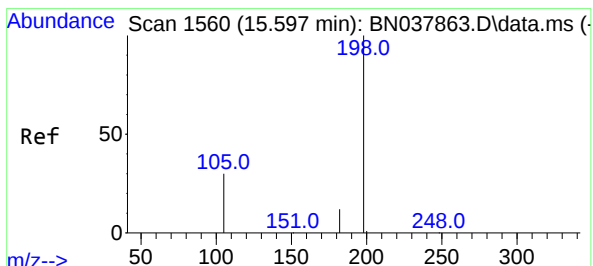
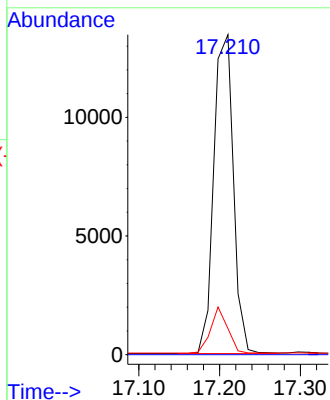
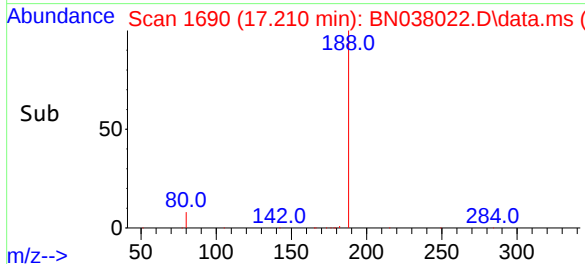
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:188 Resp: 2273  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 8.2 7.6 11.4

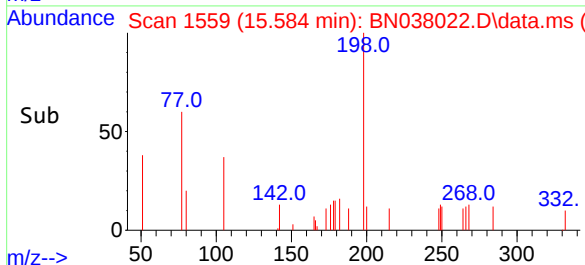
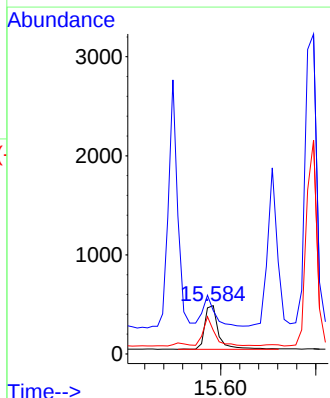
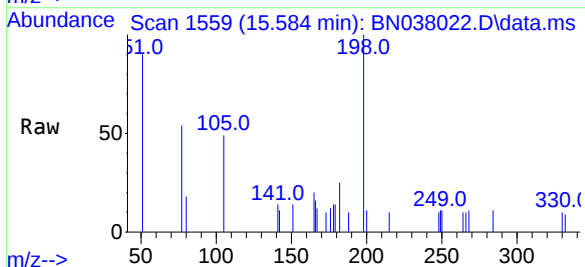
Manual Integrations  
APPROVED

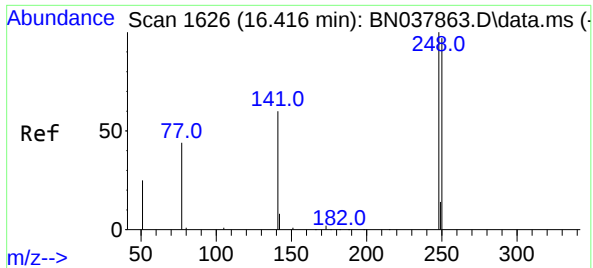
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.375 ng  
RT: 15.584 min Scan# 1559  
Delta R.T. -0.013 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:198 Resp: 897  
Ion Ratio Lower Upper  
198 100  
51 89.5 59.1 88.7#  
105 49.0 41.3 61.9





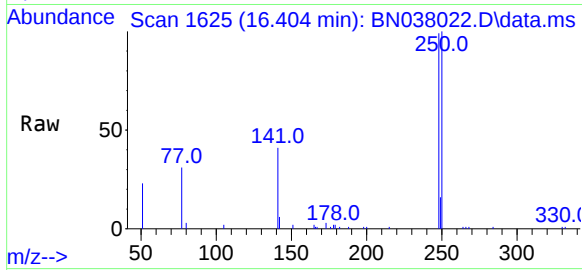
#21  
4-Bromophenyl-phenylether  
Concen: 0.385 ng  
RT: 16.404 min Scan# 1625  
Delta R.T. -0.013 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Instrument :

BNA\_N

ClientSampleId :

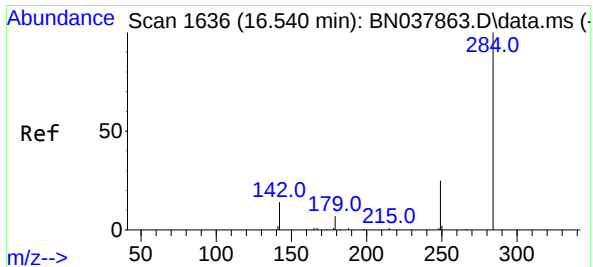
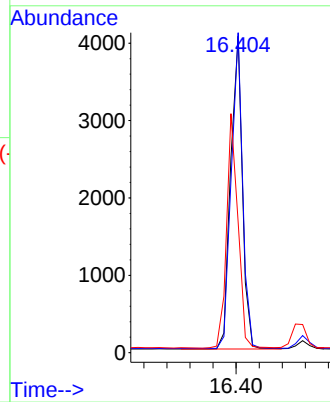
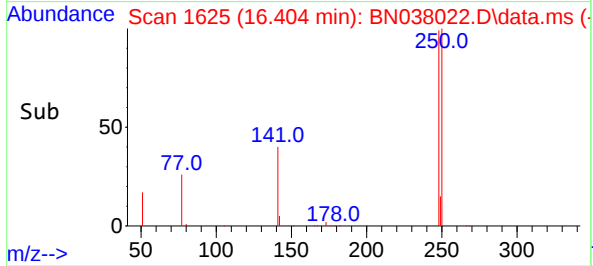
SSTDCCC0.4



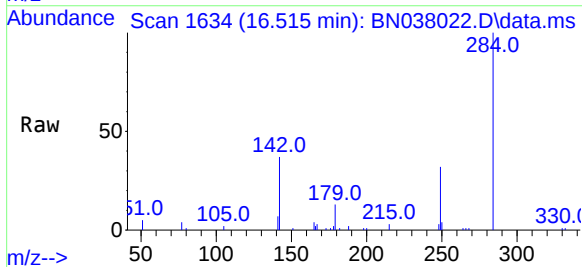
Tgt Ion:248 Resp: 5704  
Ion Ratio Lower Upper  
248 100  
250 101.1 77.6 116.4  
141 41.2 48.8 73.2

Manual Integrations  
APPROVED

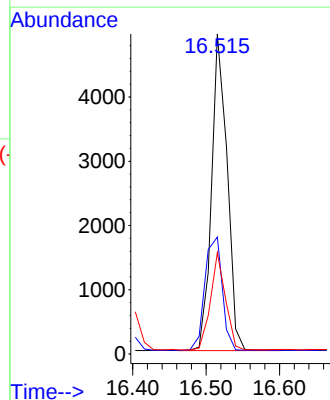
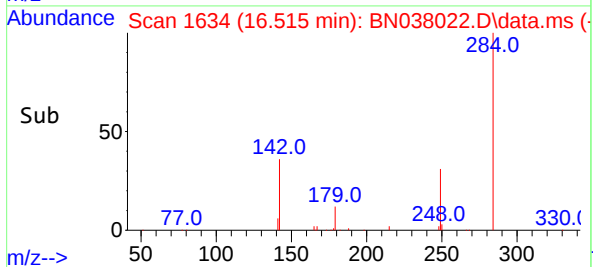
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025

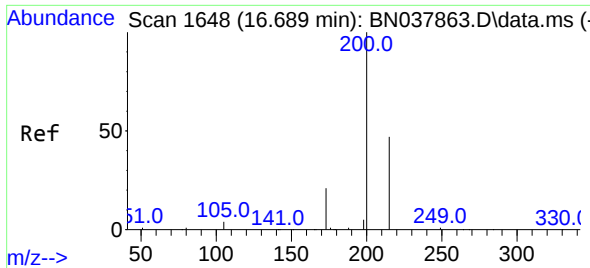


#22  
Hexachlorobenzene  
Concen: 0.405 ng  
RT: 16.515 min Scan# 1634  
Delta R.T. -0.025 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32



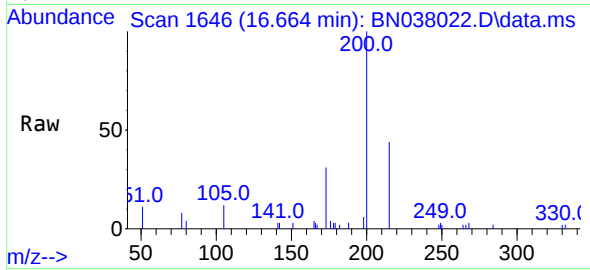
Tgt Ion:284 Resp: 7267  
Ion Ratio Lower Upper  
284 100  
142 39.9 30.9 46.3  
249 29.4 23.9 35.9





#23  
Atrazine  
Concen: 0.304 ng  
RT: 16.664 min Scan# 1646  
Delta R.T. -0.025 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

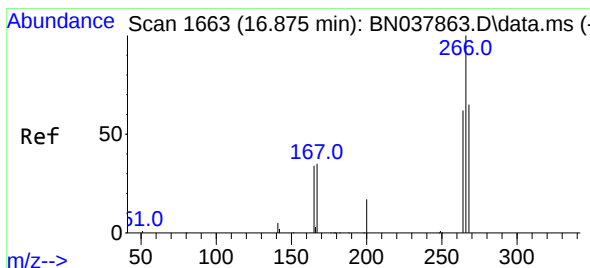
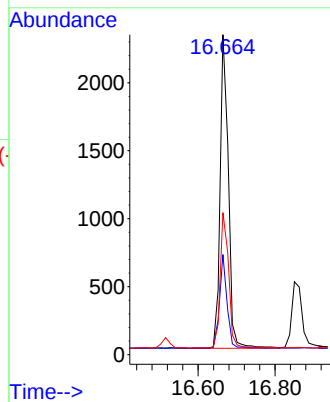
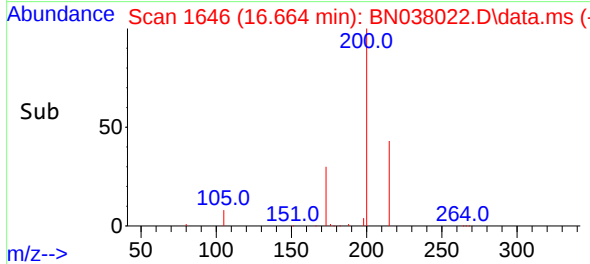
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:200 Resp: 3424  
Ion Ratio Lower Upper  
200 100  
173 31.3 18.3 27.5  
215 44.4 38.6 58.0

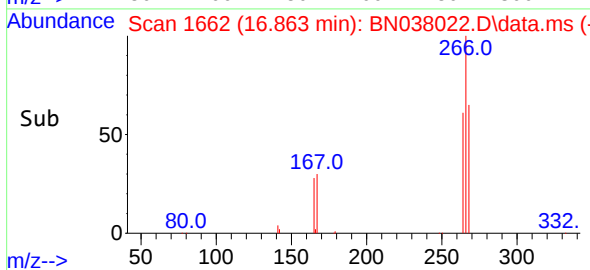
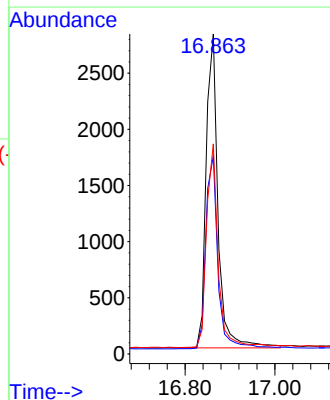
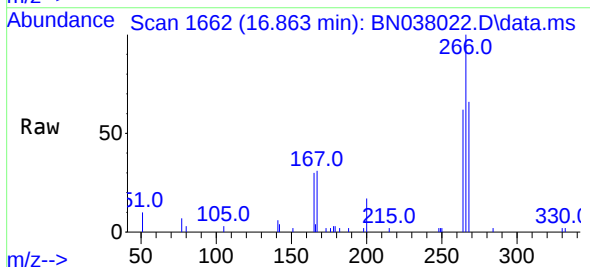
Manual Integrations  
APPROVED

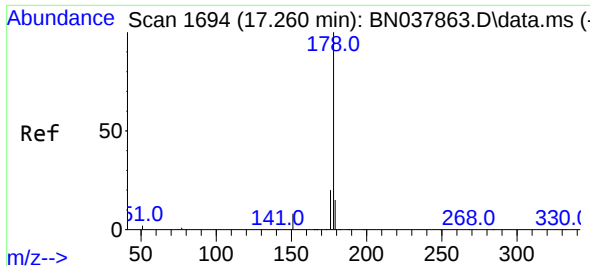
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025



#24  
Pentachlorophenol  
Concen: 0.833 ng  
RT: 16.863 min Scan# 1662  
Delta R.T. -0.012 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:266 Resp: 5132  
Ion Ratio Lower Upper  
266 100  
264 62.6 50.9 76.3  
268 63.9 54.3 81.5





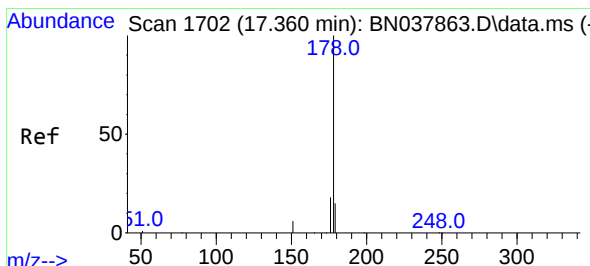
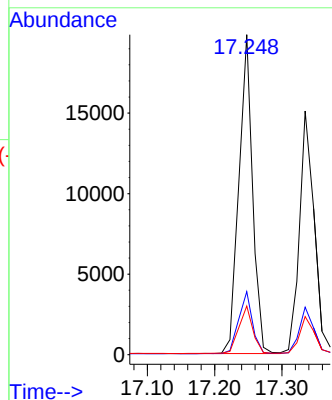
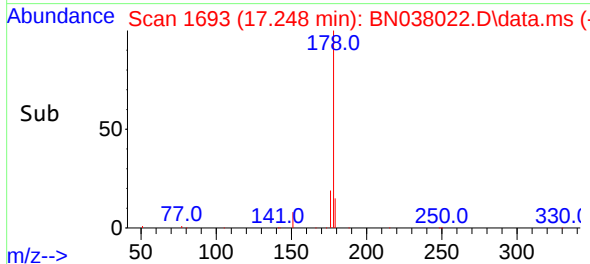
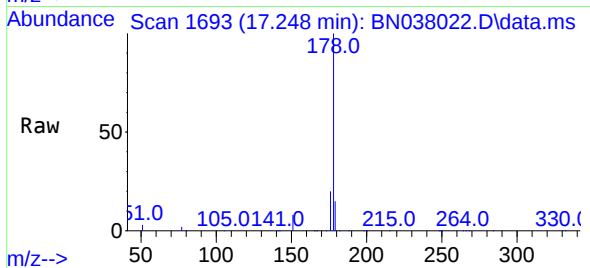
#25  
Phenanthrene  
Concen: 0.375 ng  
RT: 17.248 min Scan# 11  
Delta R.T. -0.013 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:178 Resp: 28024  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.7 23.5  
179 15.3 12.3 18.5

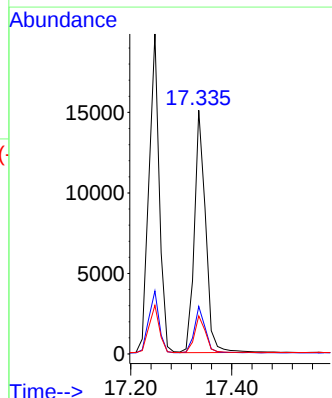
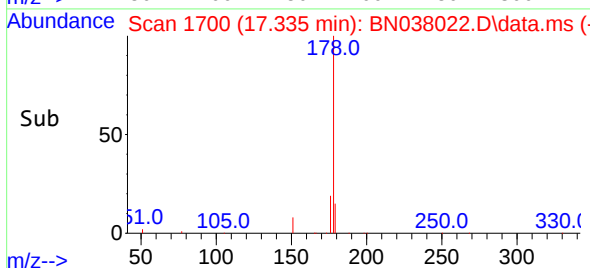
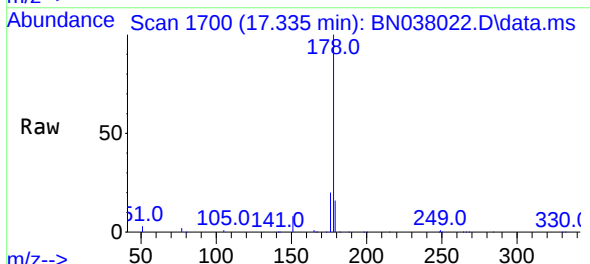
Manual Integrations  
**APPROVED**

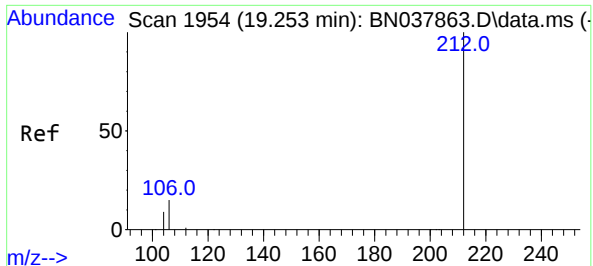
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025



#26  
Anthracene  
Concen: 0.357 ng  
RT: 17.335 min Scan# 1700  
Delta R.T. -0.025 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:178 Resp: 23199  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.0 22.4  
179 15.3 12.3 18.5





#27

Fluoranthene-d10

Concen: 0.323 ng

RT: 19.238 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038022.D

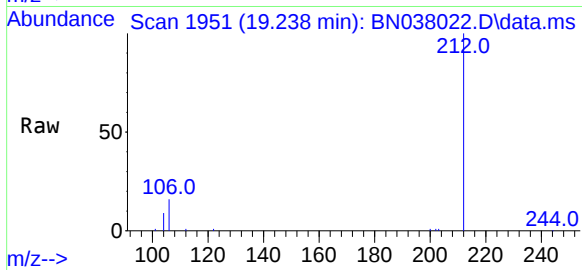
Acq: 06 Oct 2025 23:32

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:212 Resp: 18490

Ion Ratio Lower Upper

212 100

106 16.3 12.6 19.0

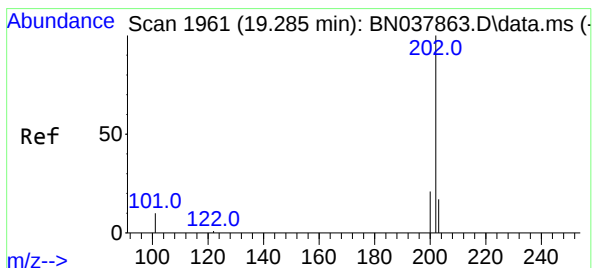
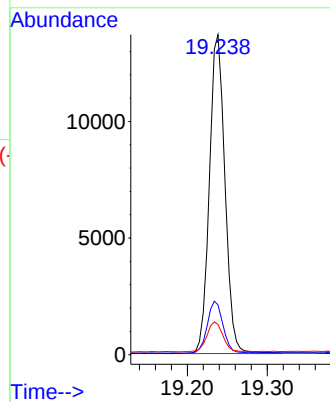
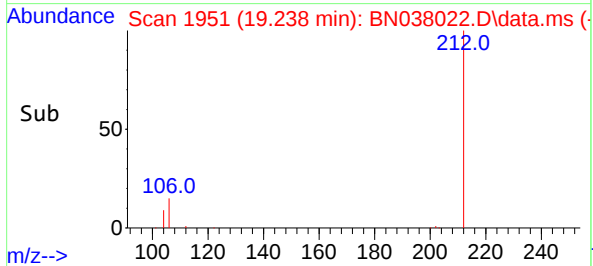
104 9.6 7.4 11.0

Manual Integrations

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Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025



#28

Fluoranthene

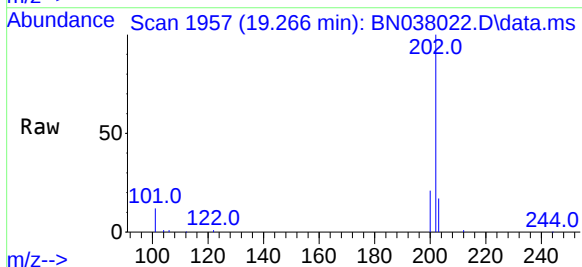
Concen: 0.331 ng

RT: 19.266 min Scan# 1957

Delta R.T. -0.019 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32



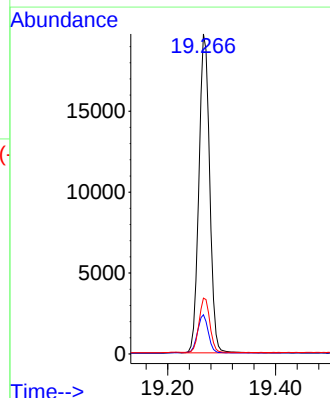
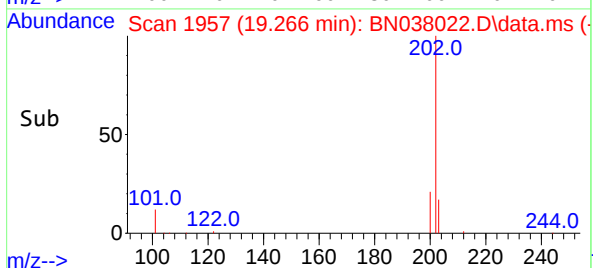
Tgt Ion:202 Resp: 27243

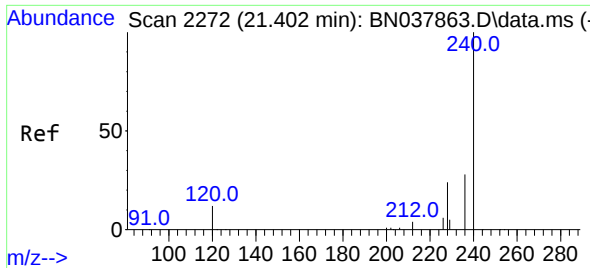
Ion Ratio Lower Upper

202 100

101 12.2 9.3 13.9

203 17.1 13.6 20.4





#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.384 min Scan# 21356  
Delta R.T. -0.018 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

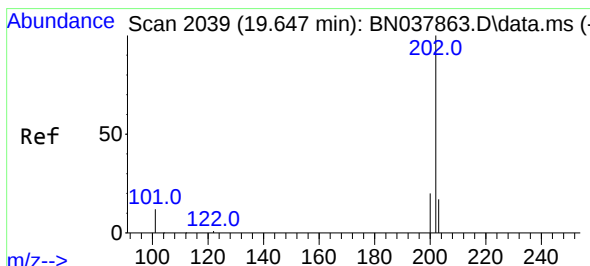
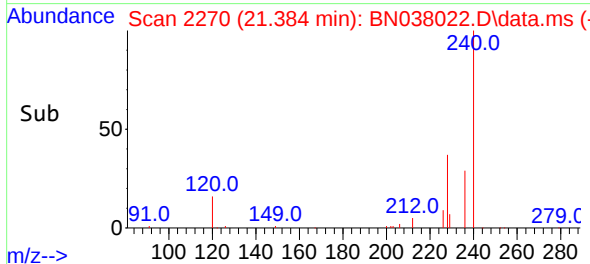
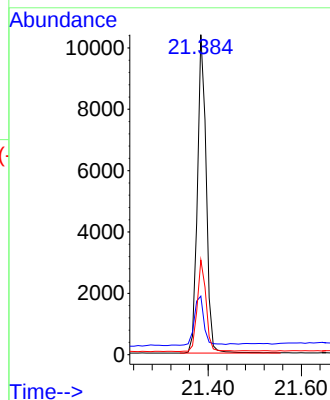
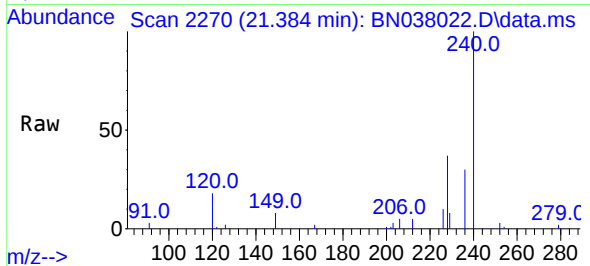
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 18.3  | 11.4  | 17.2  |
| 236     | 29.6  | 23.0  | 34.6  |

Manual Integrations

APPROVED

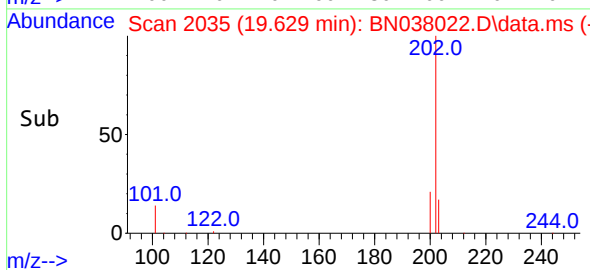
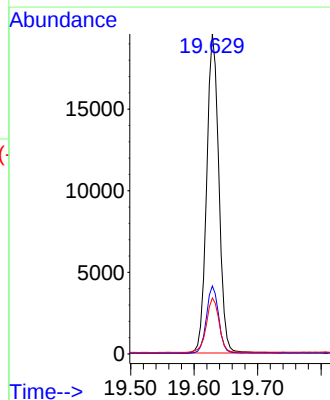
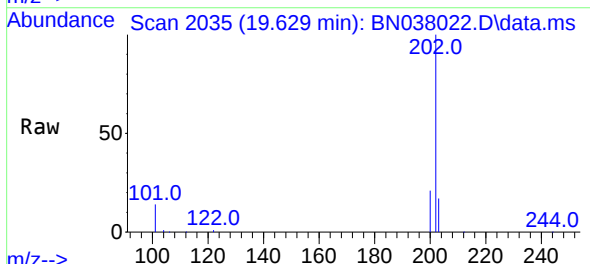
Reviewed By :Rahul Chavli 10/07/2025

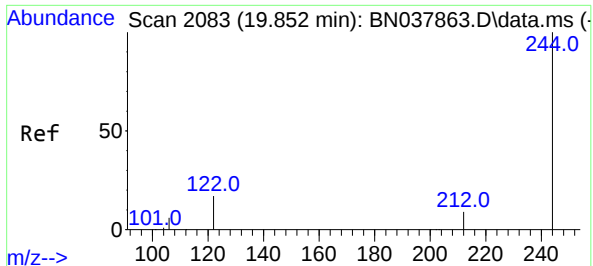
Supervised By :Jagrut Upadhyay 10/07/2025



#30  
Pyrene  
Concen: 0.487 ng  
RT: 19.629 min Scan# 2035  
Delta R.T. -0.019 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 20.9  | 16.7  | 25.1  |
| 203     | 17.6  | 14.2  | 21.4  |





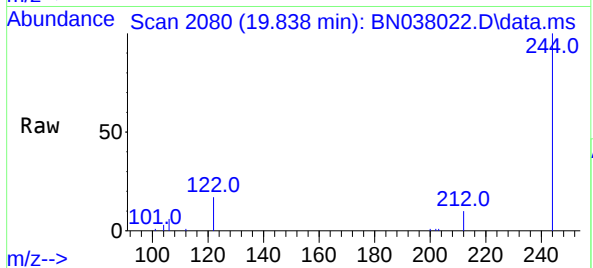
#31  
Terphenyl-d14  
Concen: 0.455 ng  
RT: 19.838 min Scan# 2080  
Delta R.T. -0.014 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Instrument :

BNA\_N

ClientSampleId :

SSTDC0.4



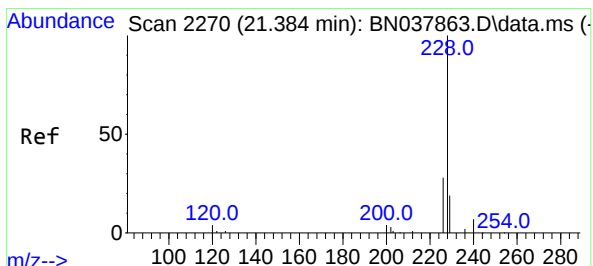
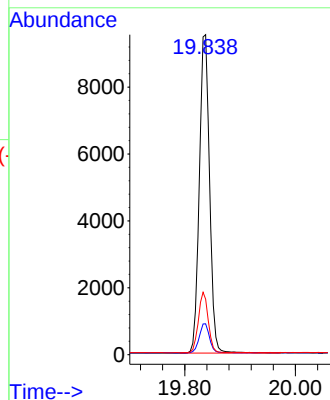
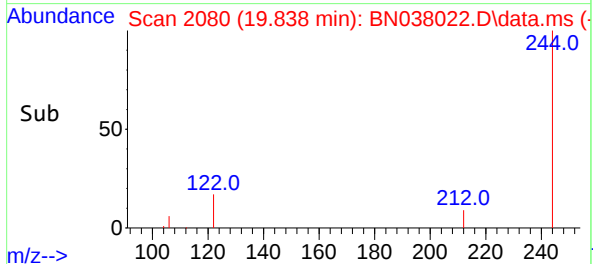
Tgt Ion:244 Resp: 12280  
Ion Ratio Lower Upper  
244 100  
212 9.6 7.6 11.4  
122 17.3 13.9 20.9

Manual Integrations

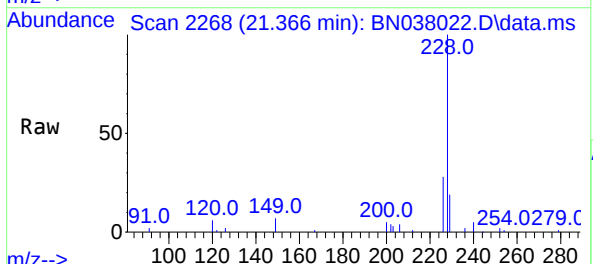
APPROVED

Reviewed By :Rahul Chavli 10/07/2025

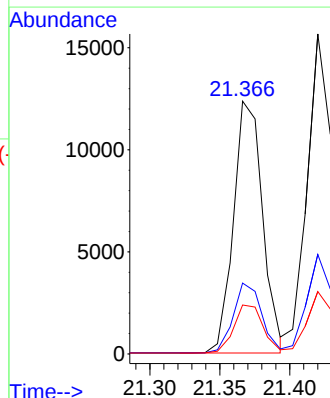
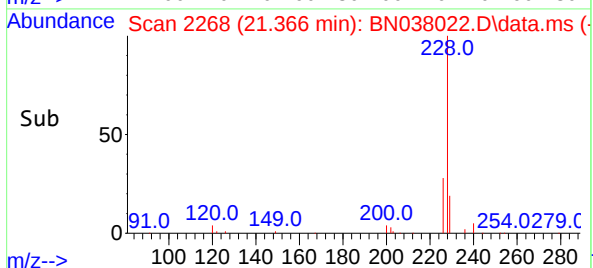
Supervised By :Jagrut Upadhyay 10/07/2025

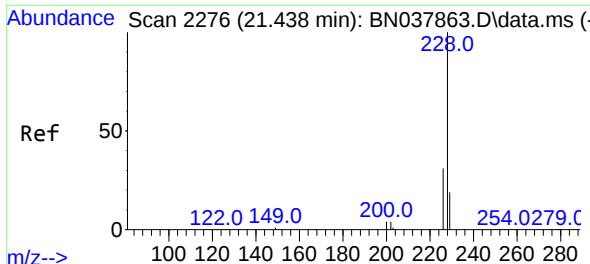


#32  
Benzo(a)anthracene  
Concen: 0.377 ng  
RT: 21.366 min Scan# 2268  
Delta R.T. -0.018 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32



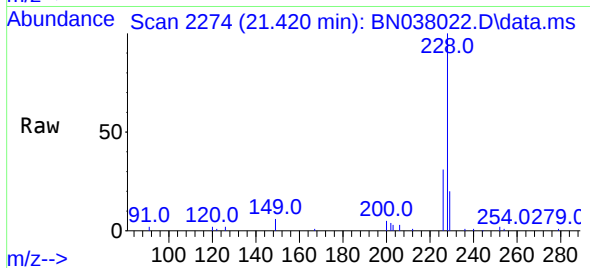
Tgt Ion:228 Resp: 17879  
Ion Ratio Lower Upper  
228 100  
226 28.0 22.6 33.8  
229 19.4 15.6 23.4





#33  
Chrysene  
Concen: 0.394 ng  
RT: 21.420 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

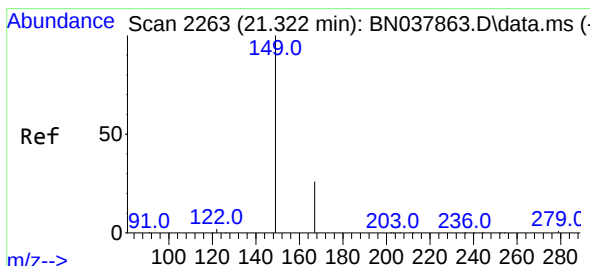
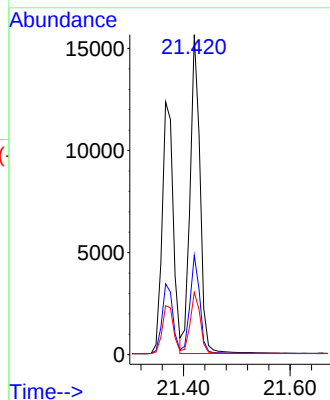
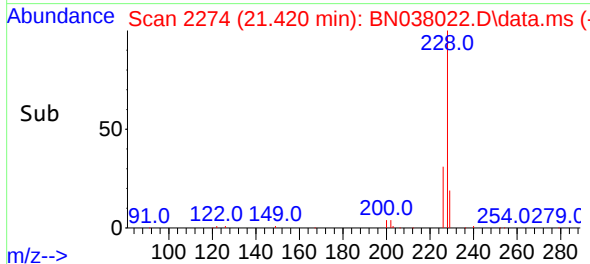
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



Tgt Ion:228 Resp: 2021  
Ion Ratio Lower Upper  
228 100  
226 31.1 24.6 37.0  
229 19.5 15.6 23.4

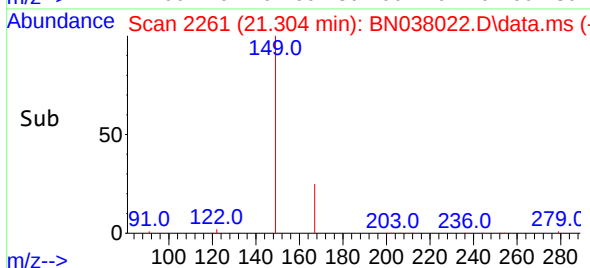
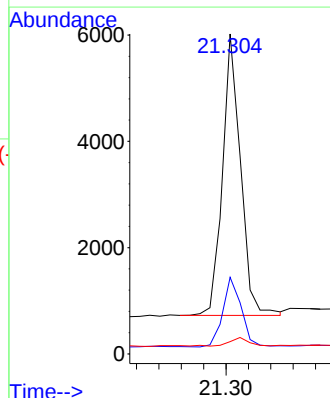
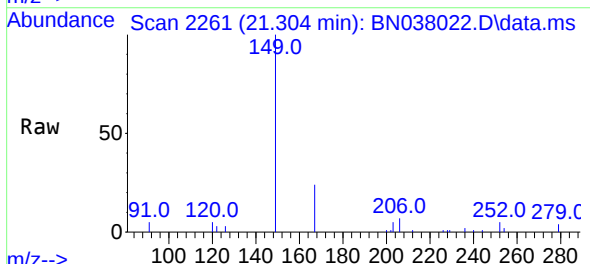
Manual Integrations  
APPROVED

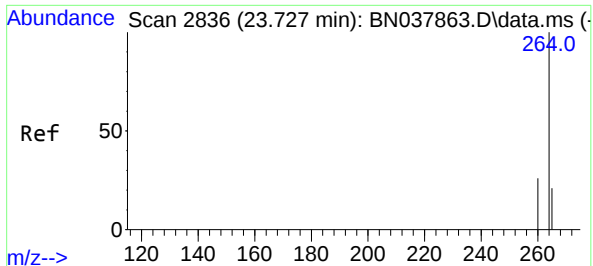
Reviewed By :Rahul Chavli 10/07/2025  
Supervised By :Jagrut Upadhyay 10/07/2025



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.317 ng  
RT: 21.304 min Scan# 2261  
Delta R.T. -0.018 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:149 Resp: 5945  
Ion Ratio Lower Upper  
149 100  
167 25.4 20.4 30.6  
279 3.0 2.4 3.6





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.703 min Scan# 21

Delta R.T. -0.024 min

Lab File: BN038022.D

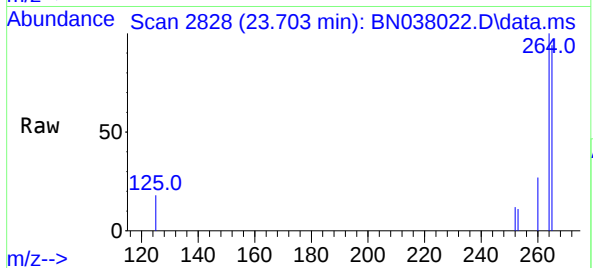
Acq: 06 Oct 2025 23:32

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



Tgt Ion:264 Resp: 10530

Ion Ratio Lower Upper

264 100

260 26.9 21.5 32.3

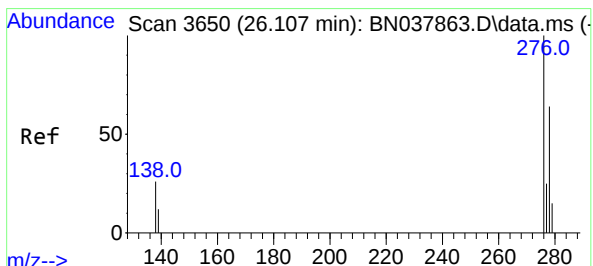
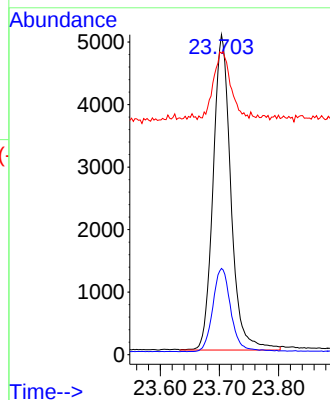
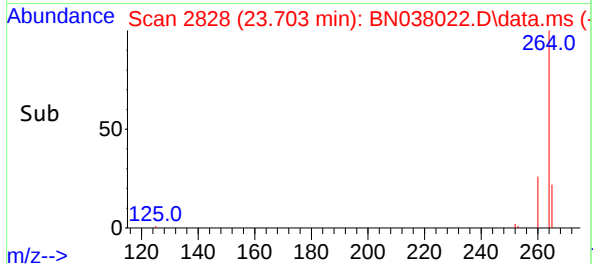
265 94.1 53.8 80.6

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025



#36

Indeno(1,2,3-cd)pyrene

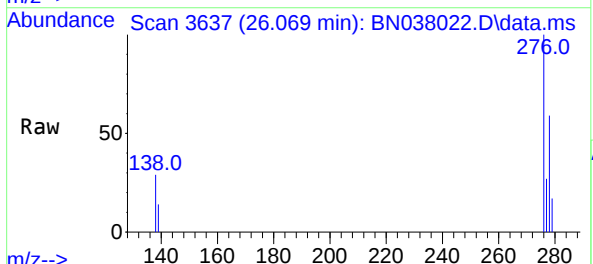
Concen: 0.414 ng

RT: 26.069 min Scan# 3637

Delta R.T. -0.038 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32



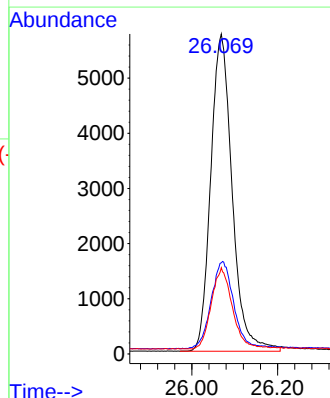
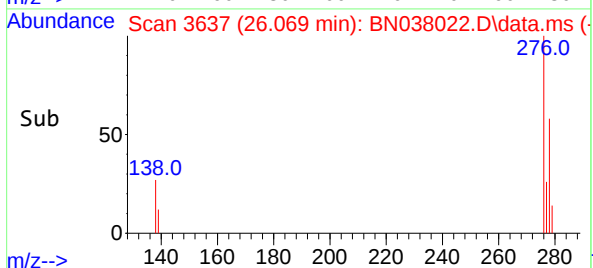
Tgt Ion:276 Resp: 19936

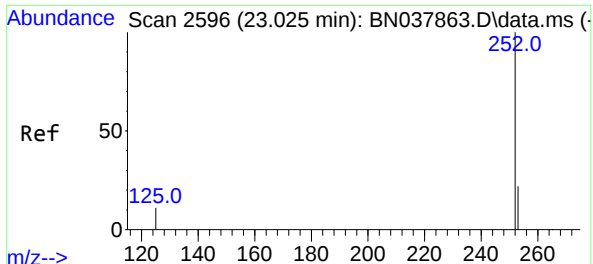
Ion Ratio Lower Upper

276 100

138 29.0 21.4 32.0

277 25.0 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.411 ng m

RT: 23.005 min Scan# 21

Delta R.T. -0.021 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:252 Resp: 1868

Ion Ratio Lower Upper

252 100

253 25.5 19.4 29.0

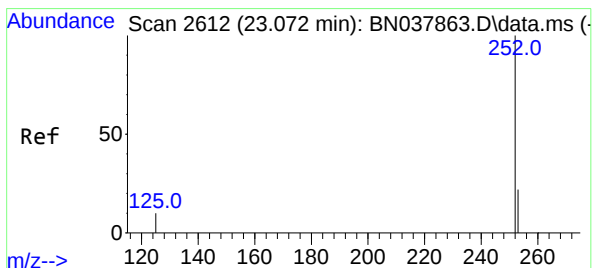
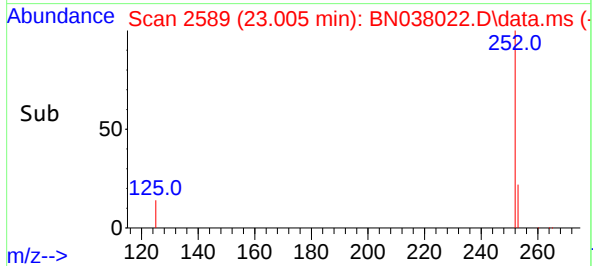
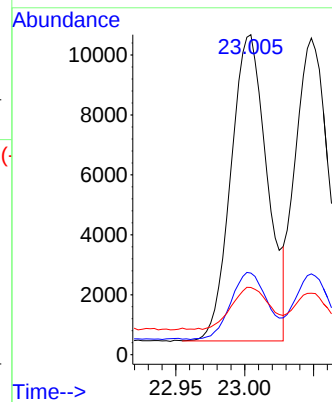
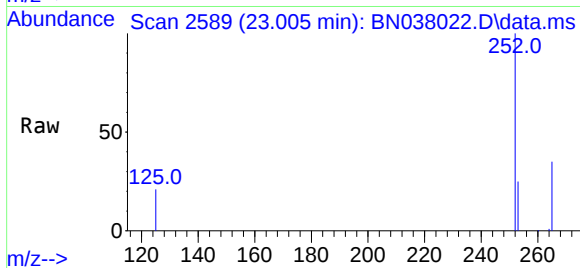
125 21.0 13.0 19.4

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025



#38

Benzo(k)fluoranthene

Concen: 0.384 ng

RT: 23.048 min Scan# 2604

Delta R.T. -0.024 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

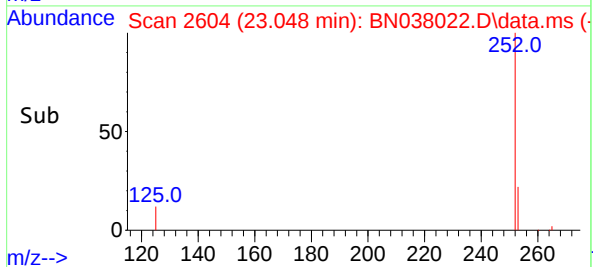
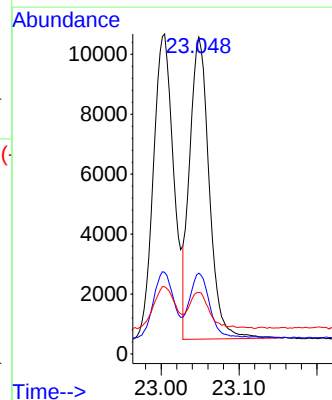
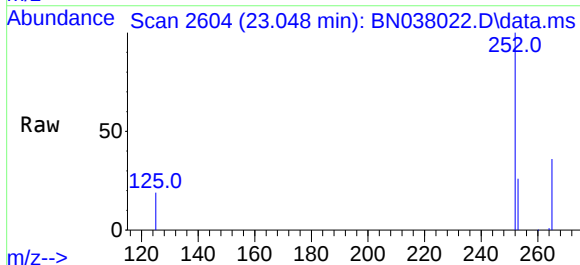
Tgt Ion:252 Resp: 17538

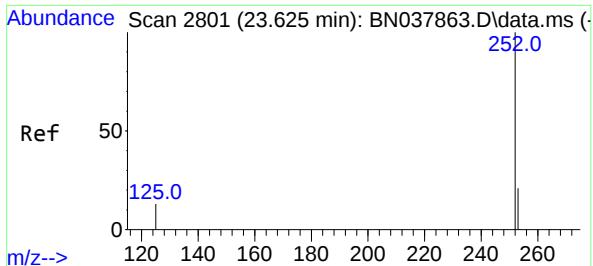
Ion Ratio Lower Upper

252 100

253 25.5 19.5 29.3

125 19.4 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.383 ng

RT: 23.601 min Scan# 21

Delta R.T. -0.024 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

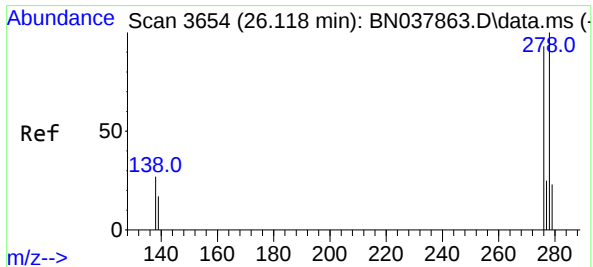
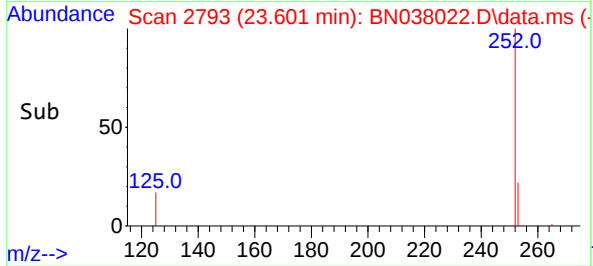
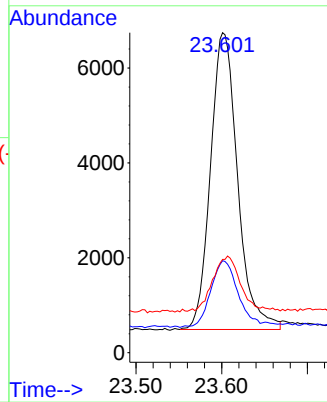
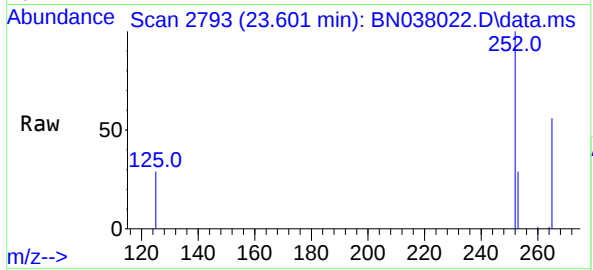
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 13760 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 28.7  | 20.6  | 30.8  |
| 125       | 29.2  | 16.7  | 25.1  |

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.407 ng

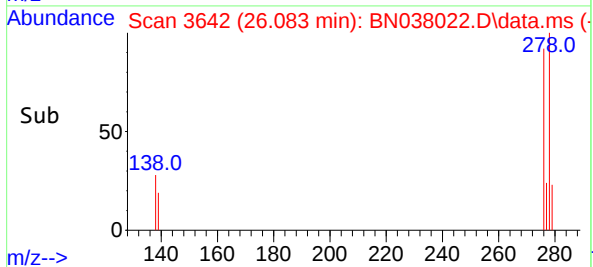
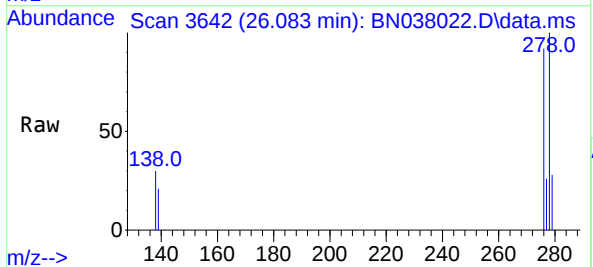
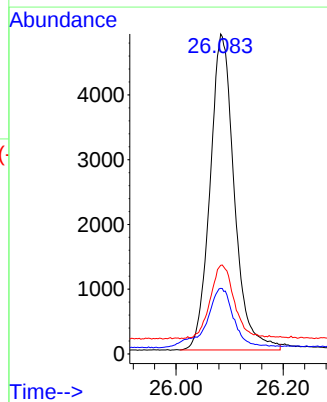
RT: 26.083 min Scan# 3642

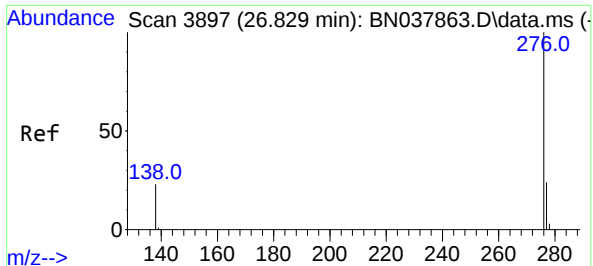
Delta R.T. -0.035 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 15307 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 20.5  | 15.4  | 23.2  |
| 279       | 27.7  | 20.8  | 31.2  |





#41

Benzo(g,h,i)perylene

Concen: 0.425 ng

RT: 26.791 min Scan# 3884

Delta R.T. -0.038 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion:276 Resp: 16770

Ion Ratio Lower Upper

276 100

277 25.1 20.2 30.4

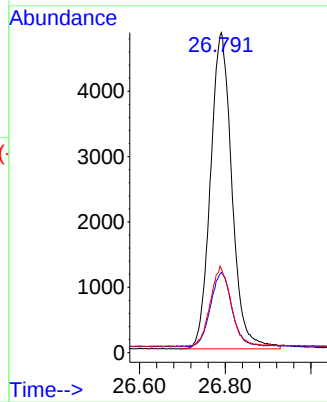
138 26.2 19.8 29.8

Manual Integrations

APPROVED

Reviewed By :Rahul Chavli 10/07/2025

Supervised By :Jagrut Upadhyay 10/07/2025



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038022.D  
Acq On : 06 Oct 2025 23:32  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Oct 07 01:41:02 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 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     | 148   | -0.02    |
| 2       | 1,4-Dioxane                | 0.406 | 0.372 | 8.4     | 134   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.540 | 0.483 | 10.6    | 138   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.913 | 0.764 | 16.3    | 132   | -0.01    |
| 5 S     | Phenol-d6                  | 1.199 | 1.067 | 11.0    | 141   | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 1.113 | 1.066 | 4.2     | 146   | -0.01    |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0     | 145   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.305 | 0.290 | 4.9     | 146   | -0.02    |
| 9       | Naphthalene                | 1.102 | 1.067 | 3.2     | 148   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.188 | 0.190 | -1.1    | 152#  | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.556 | 0.504 | 9.4     | 147   | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.720 | 0.674 | 6.4     | 147   | -0.02    |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0     | 147   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.152 | 0.125 | 17.8    | 135   | -0.02    |
| 15 S    | 2-Fluorobiphenyl           | 1.638 | 1.579 | 3.6     | 149   | -0.01    |
| 16      | Acenaphthylene             | 1.816 | 1.736 | 4.4     | 154#  | -0.02    |
| 17      | Acenaphthene               | 1.294 | 1.195 | 7.7     | 147   | -0.02    |
| 18      | Fluorene                   | 1.565 | 1.343 | 14.2    | 136   | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0     | 143   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.057 | 0.039 | 31.6#   | 129   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.261 | 0.251 | 3.8     | 146   | -0.01    |
| 22      | Hexachlorobenzene          | 0.316 | 0.320 | -1.3    | 150   | -0.03    |
| 23      | Atrazine                   | 0.199 | 0.151 | 24.1    | 125   | -0.03    |
| 24      | Pentachlorophenol          | 0.108 | 0.226 | -109.3# | 350#  | -0.01    |
| 25      | Phenanthrene               | 1.316 | 1.233 | 6.3     | 143   | -0.01    |
| 26      | Anthracene                 | 1.142 | 1.020 | 10.7    | 142   | -0.03    |
| 27 SURR | Fluoranthene-d10           | 1.006 | 0.813 | 19.2    | 131   | -0.01    |
| 28      | Fluoranthene               | 1.450 | 1.198 | 17.4    | 130   | -0.02    |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0     | 100   | -0.02    |
| 30      | Pyrene                     | 1.579 | 1.922 | -21.7   | 126   | -0.02    |
| 31 S    | Terphenyl-d14              | 0.797 | 0.905 | -13.6   | 120   | -0.01    |
| 32      | Benzo(a)anthracene         | 1.398 | 1.318 | 5.7     | 102   | -0.02    |
| 33      | Chrysene                   | 1.512 | 1.491 | 1.4     | 102   | -0.02    |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.438 | 20.8    | 90    | -0.02    |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0     | 84    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.828 | 1.893 | -3.6    | 96    | -0.04    |
| 37      | Benzo(b)fluoranthene       | 1.725 | 1.774 | -2.8    | 91    | -0.02    |
| 38      | Benzo(k)fluoranthene       | 1.736 | 1.666 | 4.0     | 87    | -0.02    |
| 39 C    | Benzo(a)pyrene             | 1.364 | 1.307 | 4.2     | 89    | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 1.427 | 1.454 | -1.9    | 93    | -0.04    |
| 41      | Benzo(g,h,i)perylene       | 1.499 | 1.593 | -6.3    | 95    | -0.04    |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038022.D  
Acq On : 06 Oct 2025 23:32  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Oct 07 01:41:02 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 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     | 148   | -0.02    |
| 2       | 1,4-Dioxane                | 0.400  | 0.366 | 8.5     | 134   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.358 | 10.5    | 138   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.335 | 16.3    | 132   | -0.01    |
| 5 S     | Phenol-d6                  | 0.400  | 0.356 | 11.0    | 141   | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.383 | 4.3     | 146   | -0.01    |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0     | 145   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.381 | 4.8     | 146   | -0.02    |
| 9       | Naphthalene                | 0.400  | 0.387 | 3.3     | 148   | -0.01    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.404 | -1.0    | 152   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.362 | 9.5     | 147   | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.375 | 6.3     | 147   | -0.02    |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0     | 147   | -0.01    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.329 | 17.8    | 135   | -0.02    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.386 | 3.5     | 149   | -0.01    |
| 16      | Acenaphthylene             | 0.400  | 0.382 | 4.5     | 154   | -0.02    |
| 17      | Acenaphthene               | 0.400  | 0.369 | 7.8     | 147   | -0.02    |
| 18      | Fluorene                   | 0.400  | 0.343 | 14.2    | 136   | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0     | 143   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.375 | 6.3     | 129   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.385 | 3.8     | 146   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.405 | -1.3    | 150   | -0.03    |
| 23      | Atrazine                   | 0.400  | 0.304 | 24.0    | 125   | -0.03    |
| 24      | Pentachlorophenol          | 0.400  | 0.833 | -108.2# | 350   | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.375 | 6.3     | 143   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.357 | 10.8    | 142   | -0.03    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.323 | 19.3    | 131   | -0.01    |
| 28      | Fluoranthene               | 0.400  | 0.331 | 17.3    | 130   | -0.02    |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0     | 100   | -0.02    |
| 30      | Pyrene                     | 0.400  | 0.487 | -21.7   | 126   | -0.02    |
| 31 S    | Terphenyl-d14              | 0.400  | 0.455 | -13.7   | 120   | -0.01    |
| 32      | Benzo(a)anthracene         | 0.400  | 0.377 | 5.8     | 102   | -0.02    |
| 33      | Chrysene                   | 0.400  | 0.394 | 1.5     | 102   | -0.02    |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.317 | 20.8    | 90    | -0.02    |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0     | 84    | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.414 | -3.5    | 96    | -0.04    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.411 | -2.7    | 91    | -0.02    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.384 | 4.0     | 87    | -0.02    |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.383 | 4.3     | 89    | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.407 | -1.7    | 93    | -0.04    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.425 | -6.2    | 95    | -0.04    |

(#) = 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: TETR06  
 Lab Code: ACE SDG No.: Q3213  
 Instrument ID: BNA\_N Calibration Date/Time: 10/07/2025 09:47  
 Lab File ID: BN038039.D Init. Calib. Date(s): 09/23/2025 09/23/2025  
 EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 12:13 15:51  
 GC Column: ZB-GR ID: 0.25 (mm)

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.556 | 0.515  |            | -7.4  | 50.0  |
| Fluoranthene-d10        | 1.006 | 0.820  |            | -18.5 | 50.0  |
| 2-Fluorophenol          | 0.913 | 0.850  |            | -6.9  | 50.0  |
| Phenol-d6               | 1.199 | 1.108  |            | -7.6  | 50.0  |
| Nitrobenzene-d5         | 0.305 | 0.291  |            | -4.6  | 50.0  |
| 2-Fluorobiphenyl        | 1.638 | 1.521  |            | -7.1  | 50.0  |
| 2,4,6-Tribromophenol    | 0.152 | 0.117  |            | -23.0 | 50.0  |
| Terphenyl-d14           | 0.797 | 0.944  |            | 18.4  | 50.0  |
| 1,4-Dioxane             | 0.406 | 0.426  |            | 4.9   | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
 Data File : BN038039.D  
 Acq On : 07 Oct 2025 09:47  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Oct 07 10:39:40 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 11:00:01 2025  
 Response via : Initial Calibration

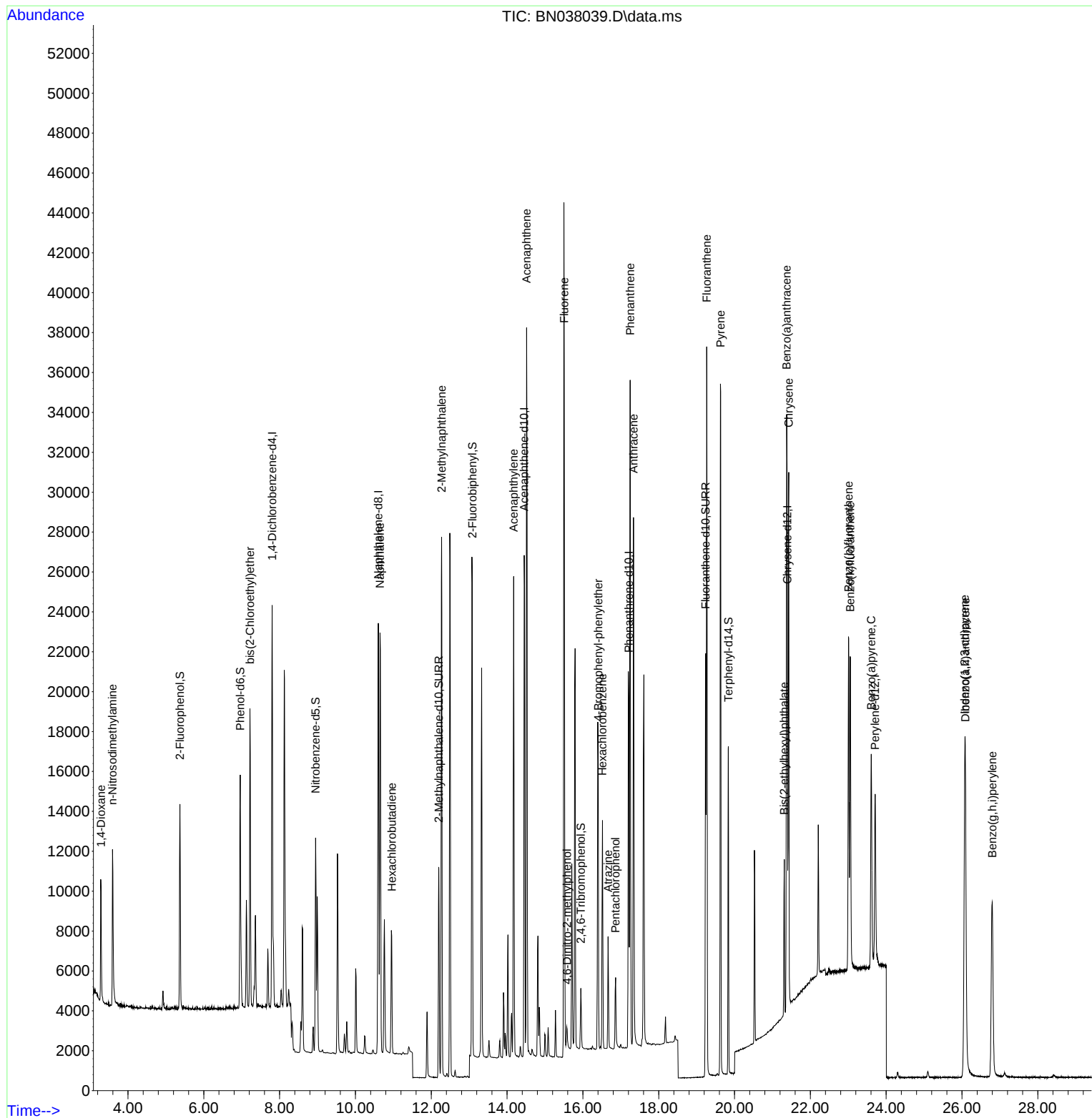
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.804  | 152  | 9665     | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8             | 10.605 | 136  | 28130    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.452 | 164  | 15015    | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 17.211 | 188  | 27818    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.393 | 240  | 16228    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.709 | 264  | 12655    | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.370  | 112  | 8216     | 0.373 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.959  | 99   | 10704    | 0.369 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.950  | 82   | 8194     | 0.382 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 12.197 | 152  | 14476    | 0.370 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.945 | 330  | 1759     | 0.309 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 13.083 | 172  | 22838    | 0.372 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.239 | 212  | 22814    | 0.326 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.838 | 244  | 15325    | 0.474 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.290  | 88   | 4121     | 0.420 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.593  | 42   | 5269     | 0.404 | ng    | # 90     |
| 6) bis(2-Chloroethyl)ether    | 7.219  | 93   | 10565    | 0.393 | ng    | 98       |
| 9) Naphthalene                | 10.648 | 128  | 29555    | 0.381 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.957 | 225  | 5211     | 0.394 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.273 | 142  | 19108    | 0.377 | ng    | 99       |
| 16) Acenaphthylene            | 14.174 | 152  | 25561    | 0.375 | ng    | 100      |
| 17) Acenaphthene              | 14.516 | 154  | 17783    | 0.366 | ng    | 98       |
| 18) Fluorene                  | 15.510 | 166  | 20019    | 0.341 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.585 | 198  | 893      | 0.319 | ng    | # 78     |
| 21) 4-Bromophenyl-phenylether | 16.404 | 248  | 6898     | 0.381 | ng    | # 87     |
| 22) Hexachlorobenzene         | 16.516 | 284  | 8528     | 0.388 | ng    | 99       |
| 23) Atrazine                  | 16.665 | 200  | 4273     | 0.310 | ng    | # 92     |
| 24) Pentachlorophenol         | 16.863 | 266  | 1986     | 0.263 | ng    | 98       |
| 25) Phenanthrene              | 17.248 | 178  | 33982    | 0.371 | ng    | 99       |
| 26) Anthracene                | 17.335 | 178  | 28282    | 0.356 | ng    | 100      |
| 28) Fluoranthene              | 19.267 | 202  | 33045    | 0.328 | ng    | 99       |
| 30) Pyrene                    | 19.634 | 202  | 31824    | 0.497 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.375 | 228  | 21454    | 0.378 | ng    | 99       |
| 33) Chrysene                  | 21.429 | 228  | 23982    | 0.391 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.313 | 149  | 7091     | 0.316 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 26.072 | 276  | 23543    | 0.407 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 23.008 | 252  | 21734    | 0.398 | ng    | 96       |
| 38) Benzo(k)fluoranthene      | 23.052 | 252  | 20824    | 0.379 | ng    | 96       |
| 39) Benzo(a)pyrene            | 23.607 | 252  | 16396    | 0.380 | ng    | # 92     |
| 40) Dibenzo(a,h)anthracene    | 26.092 | 278  | 18431    | 0.408 | ng    | 98       |
| 41) Benzo(g,h,i)perylene      | 26.797 | 276  | 19777    | 0.417 | ng    | 98       |

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

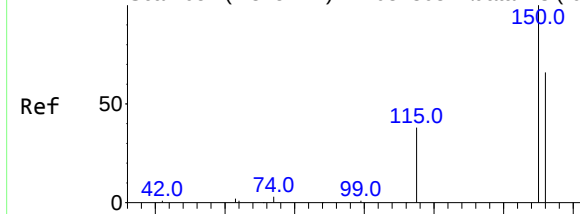
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Data File : BN038039.D  
Acq On : 07 Oct 2025 09:47  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Quant Time: Oct 07 10:39:40 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration

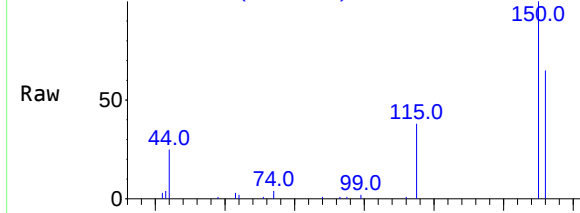


Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



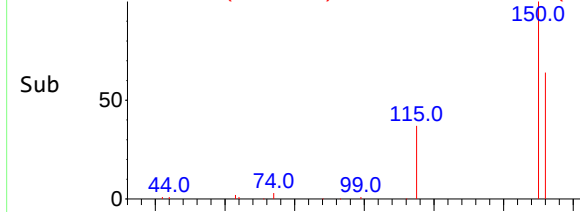
m/z--&gt;

Abundance Scan 654 (7.804 min): BN038039.D\data.ms



m/z--&gt;

Abundance Scan 654 (7.804 min): BN038039.D\data.ms (-62



m/z--&gt;

#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

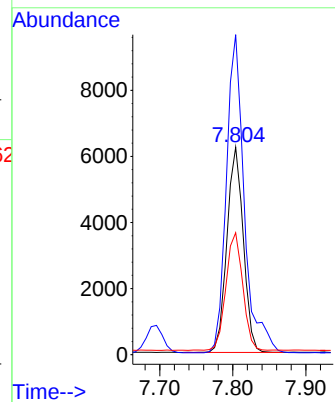
Tgt Ion:152 Resp: 9665

Ion Ratio Lower Upper

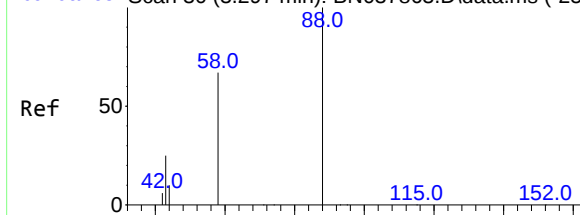
152 100

150 154.2 121.0 181.4

115 58.7 47.4 71.0

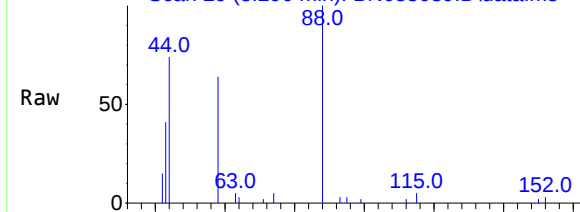


Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



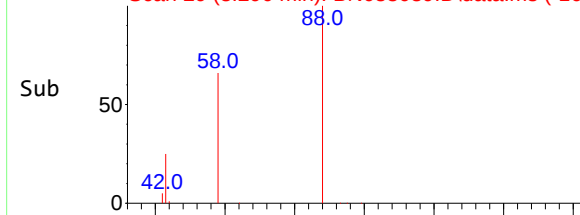
m/z--&gt;

Abundance Scan 29 (3.290 min): BN038039.D\data.ms



m/z--&gt;

Abundance Scan 29 (3.290 min): BN038039.D\data.ms (-16)



m/z--&gt;

#2

1,4-Dioxane

Concen: 0.420 ng

RT: 3.290 min Scan# 29

Delta R.T. -0.007 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

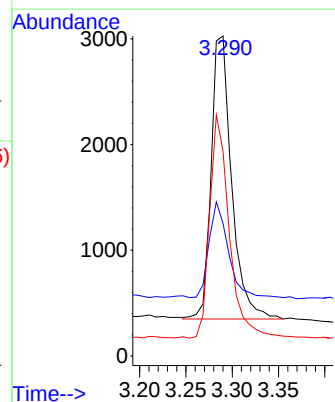
Tgt Ion: 88 Resp: 4121

Ion Ratio Lower Upper

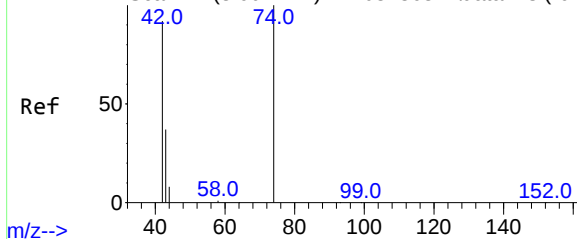
88 100

43 31.5 26.6 39.8

58 75.3 58.9 88.3

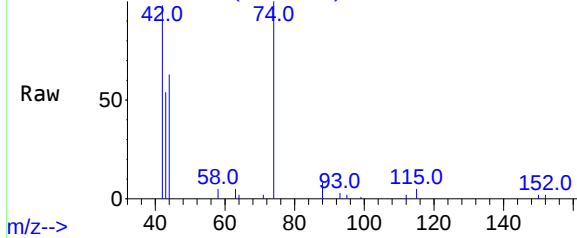


Abundance Scan 72 (3.601 min): BN037863.D\data.ms (-67)



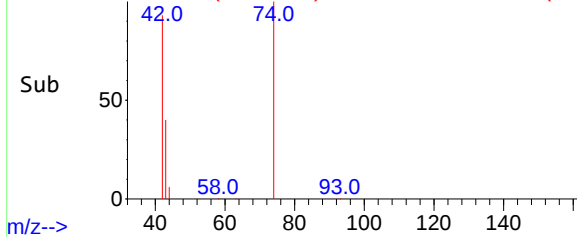
m/z--&gt;

Abundance Scan 71 (3.593 min): BN038039.D\data.ms



m/z--&gt;

Abundance Scan 71 (3.593 min): BN038039.D\data.ms (-51)



m/z--&gt;

#3

n-Nitrosodimethylamine

Concen: 0.404 ng

RT: 3.593 min Scan# 71

Delta R.T. -0.007 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

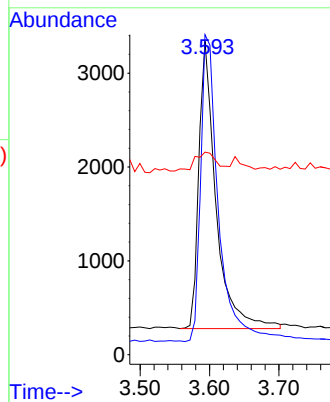
Tgt Ion: 42 Resp: 5269

Ion Ratio Lower Upper

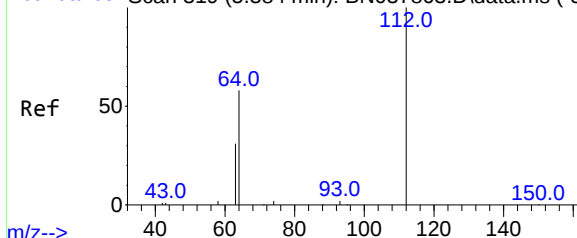
42 100

74 112.4 93.4 140.0

44 8.5 22.2 33.4#

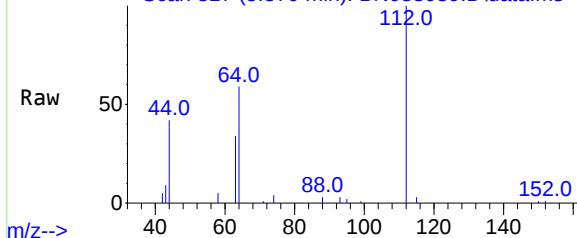


Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31)



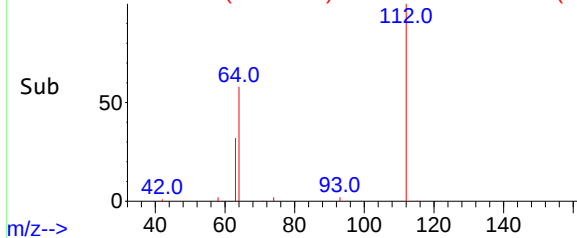
m/z--&gt;

Abundance Scan 317 (5.370 min): BN038039.D\data.ms



m/z--&gt;

Abundance Scan 317 (5.370 min): BN038039.D\data.ms (-29)



m/z--&gt;

#4

2-Fluorophenol

Concen: 0.373 ng

RT: 5.370 min Scan# 317

Delta R.T. -0.014 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

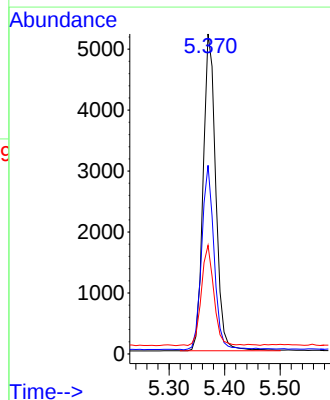
Tgt Ion: 112 Resp: 8216

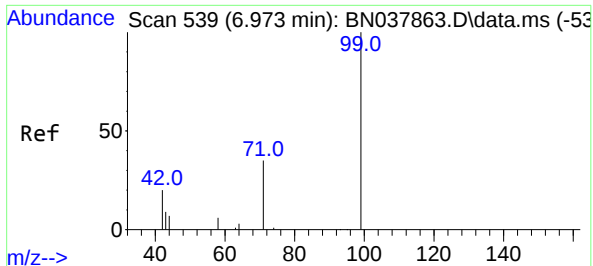
Ion Ratio Lower Upper

112 100

64 57.9 44.6 66.8

63 31.2 24.9 37.3

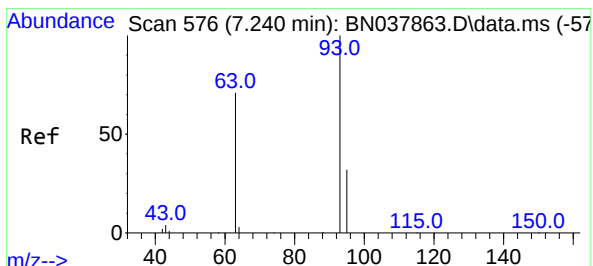
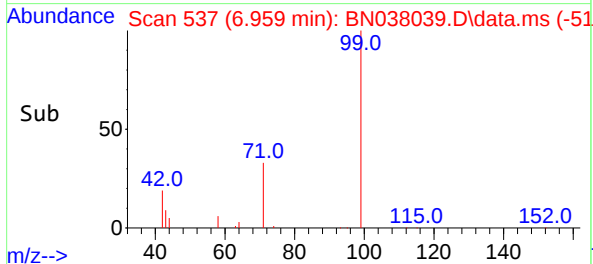
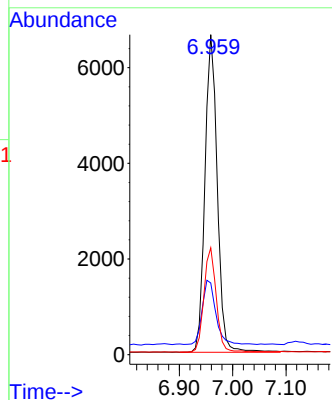
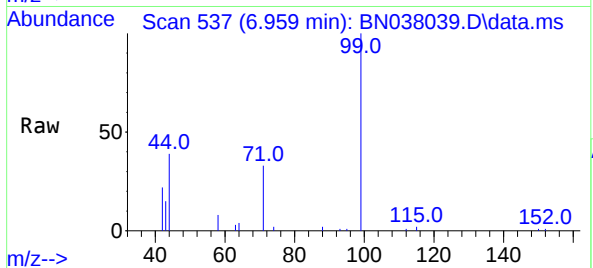




#5  
Phenol-d6  
Concen: 0.369 ng  
RT: 6.959 min Scan# 51  
Delta R.T. -0.014 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

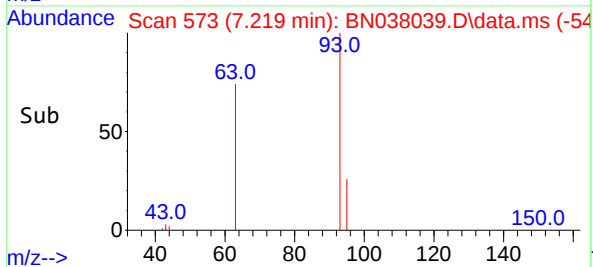
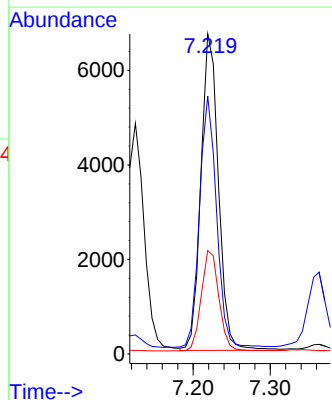
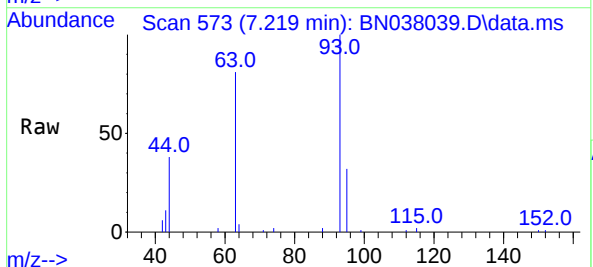
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

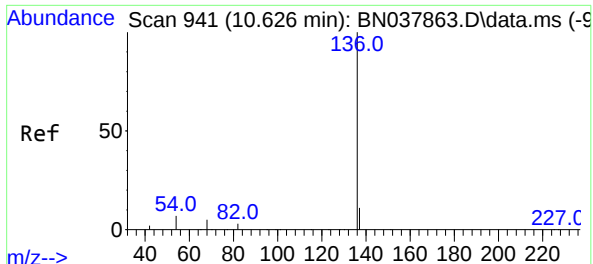
Tgt Ion: 99 Resp: 10704  
Ion Ratio Lower Upper  
99 100  
42 22.4 17.2 25.8  
71 33.0 27.3 40.9



#6  
bis(2-Chloroethyl)ether  
Concen: 0.393 ng  
RT: 7.219 min Scan# 573  
Delta R.T. -0.022 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

Tgt Ion: 93 Resp: 10565  
Ion Ratio Lower Upper  
93 100  
63 77.4 60.1 90.1  
95 31.9 25.4 38.2

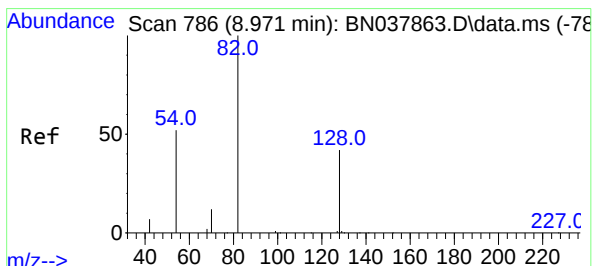
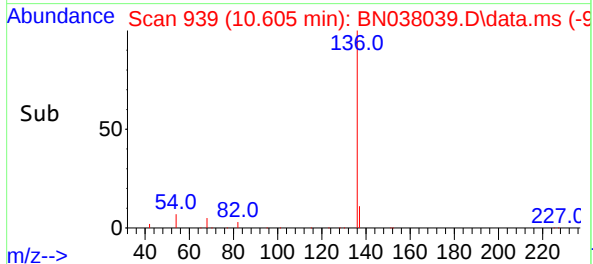
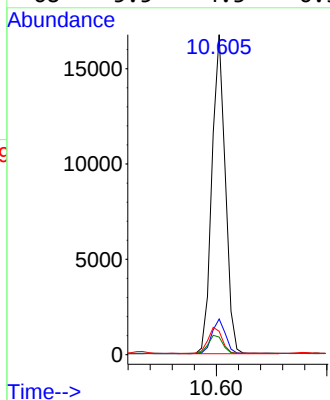
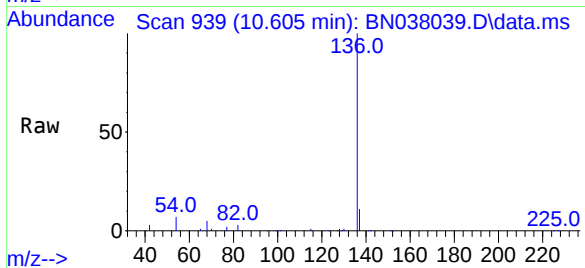




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.605 min Scan# 91  
Delta R.T. -0.021 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

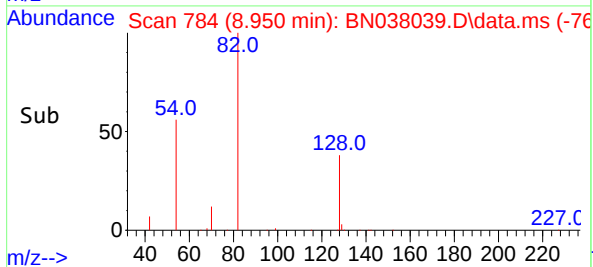
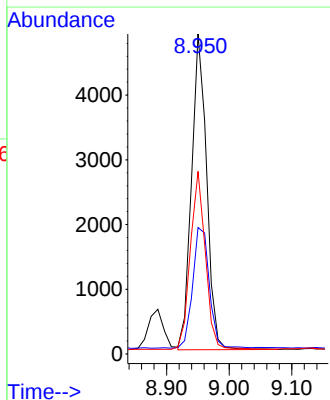
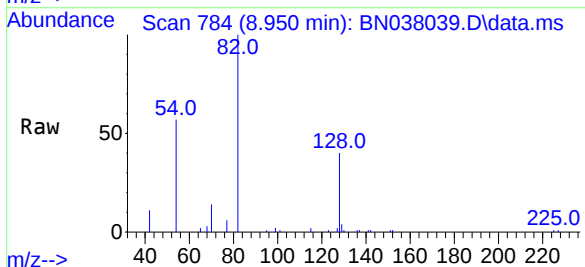
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

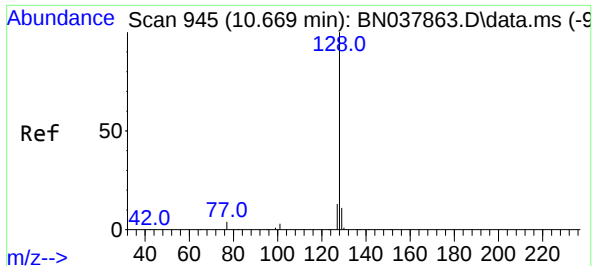
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 28130 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.1  | 9.0   | 13.4  |
| 54       | 7.3   | 5.8   | 8.8   |
| 68       | 5.5   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.382 ng  
RT: 8.950 min Scan# 784  
Delta R.T. -0.021 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 8194  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 39.5  | 34.8  | 52.2  |
| 54       | 57.1  | 42.2  | 63.2  |

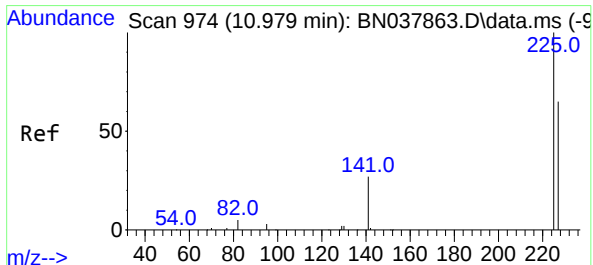
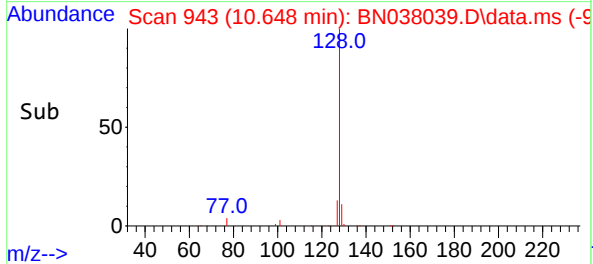
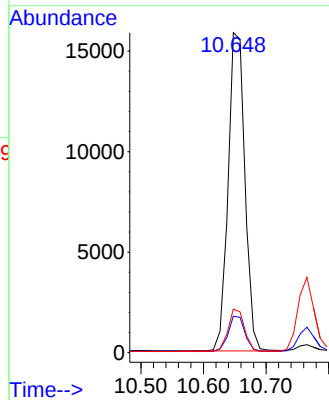
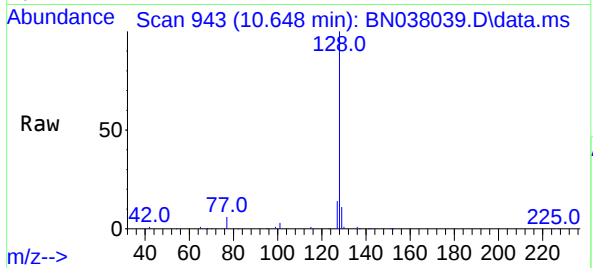




#9  
Naphthalene  
Concen: 0.381 ng  
RT: 10.648 min Scan# 94  
Delta R.T. -0.021 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

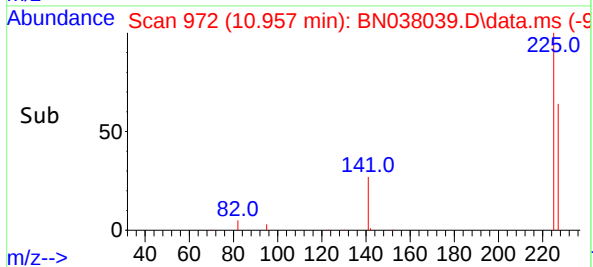
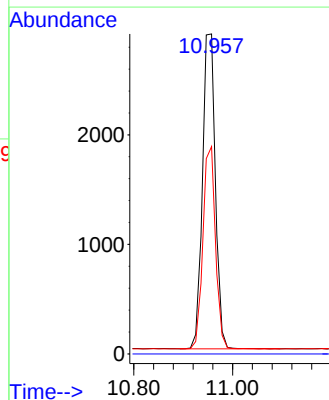
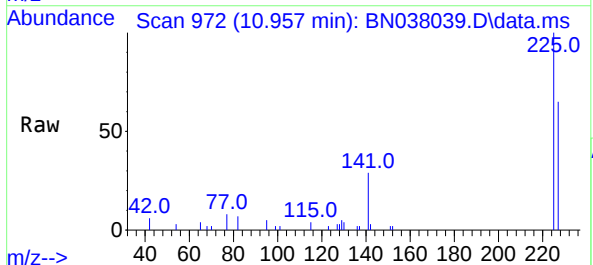
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

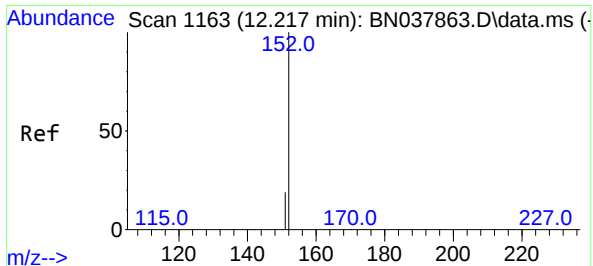
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 29555 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.4  | 9.2   | 13.8  |
| 127      | 13.6  | 11.0  | 16.6  |



#10  
Hexachlorobutadiene  
Concen: 0.394 ng  
RT: 10.957 min Scan# 972  
Delta R.T. -0.021 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 5211  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 62.5  | 51.4  | 77.2  |

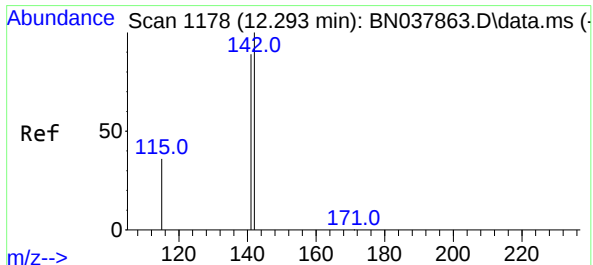
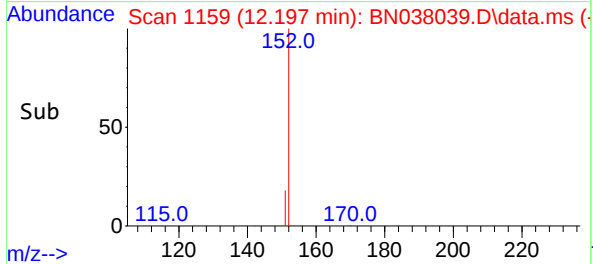
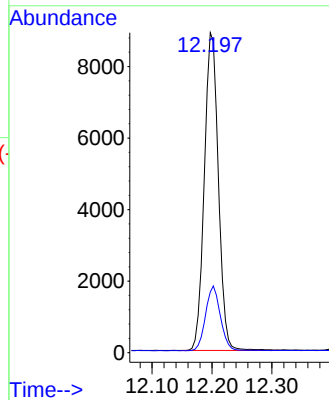
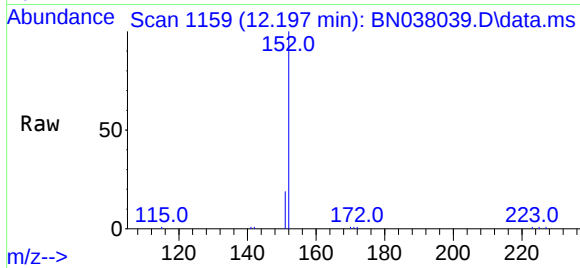




#11  
2-Methylnaphthalene-d10  
Concen: 0.370 ng  
RT: 12.197 min Scan# 1163  
Delta R.T. -0.020 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

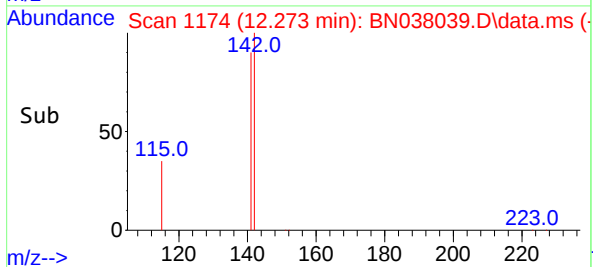
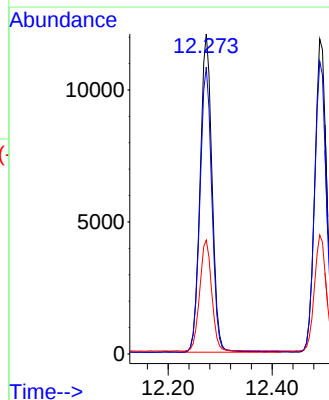
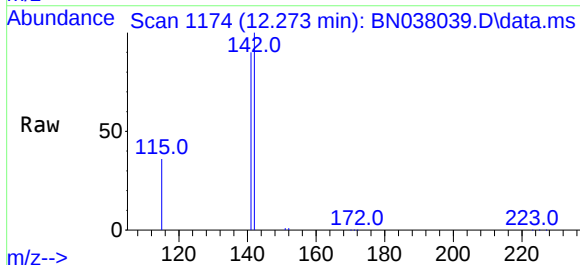
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

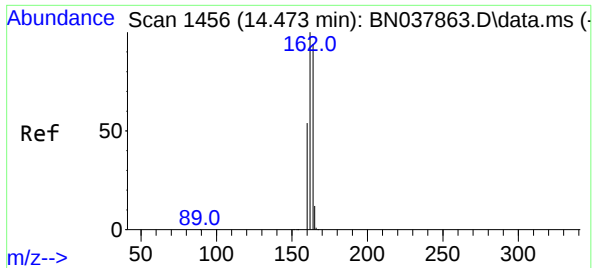
Tgt Ion:152 Resp: 14476  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 0.377 ng  
RT: 12.273 min Scan# 1174  
Delta R.T. -0.020 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

Tgt Ion:142 Resp: 19108  
Ion Ratio Lower Upper  
142 100  
141 89.7 71.2 106.8  
115 35.6 29.7 44.5

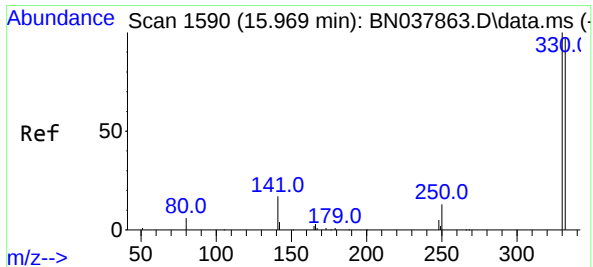
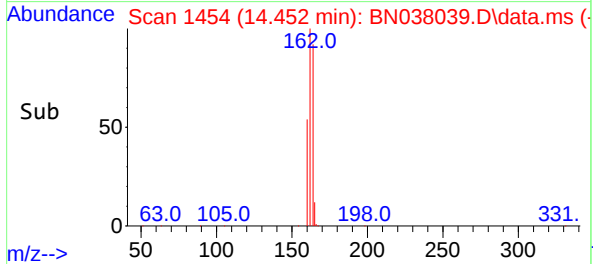
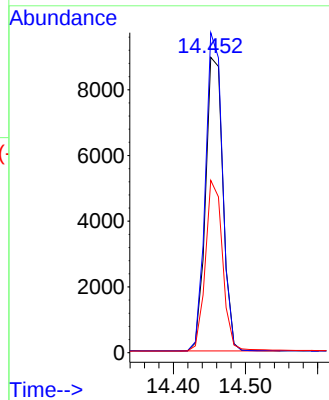
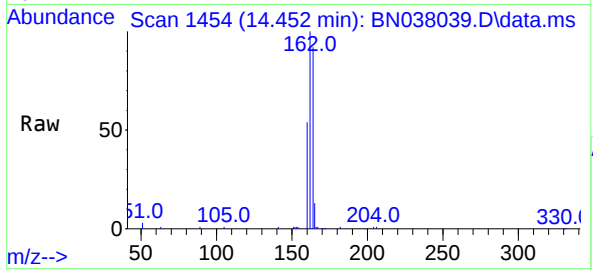




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.452 min Scan# 1456  
Delta R.T. -0.021 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

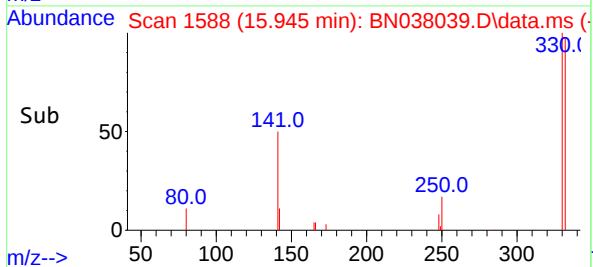
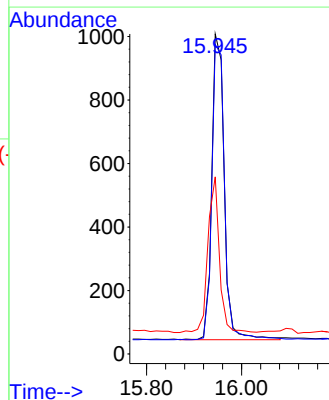
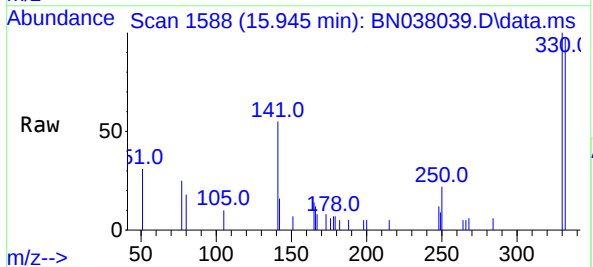
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

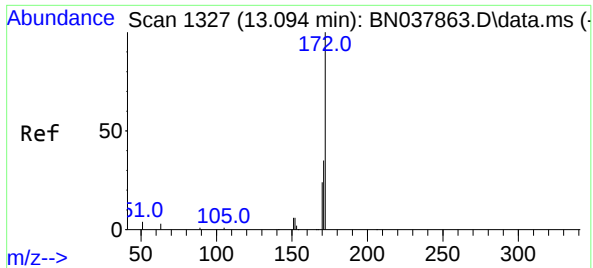
Tgt Ion:164 Resp: 15015  
Ion Ratio Lower Upper  
164 100  
162 108.4 84.8 127.2  
160 58.3 46.1 69.1



#14  
2,4,6-Tribromophenol  
Concen: 0.309 ng  
RT: 15.945 min Scan# 1588  
Delta R.T. -0.024 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

Tgt Ion:330 Resp: 1759  
Ion Ratio Lower Upper  
330 100  
332 98.4 77.2 115.8  
141 46.9 37.2 55.8

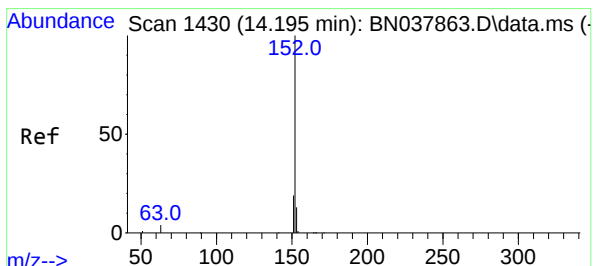
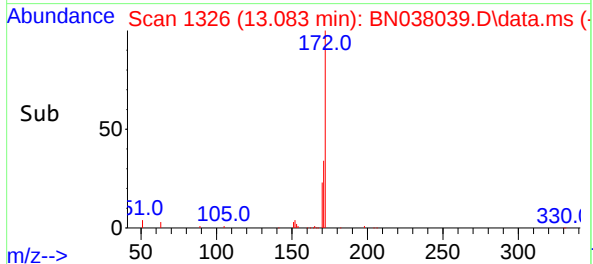
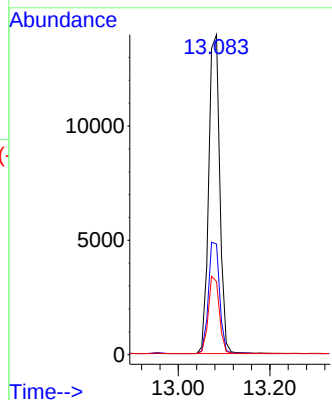
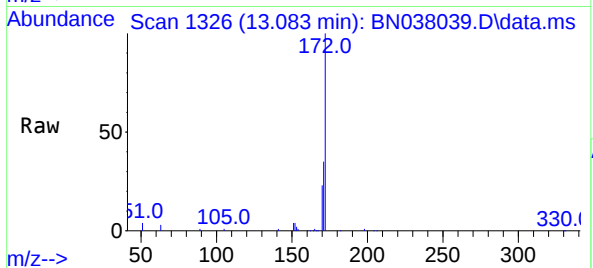




#15  
2-Fluorobiphenyl  
Concen: 0.372 ng  
RT: 13.083 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

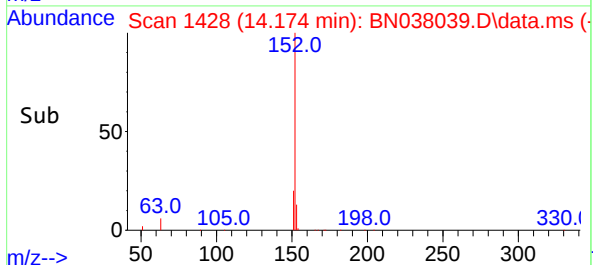
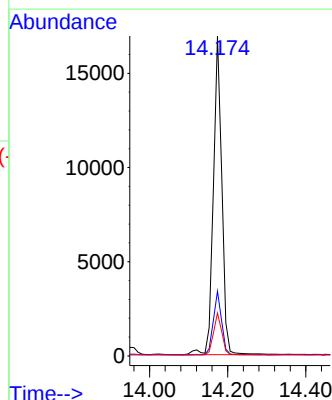
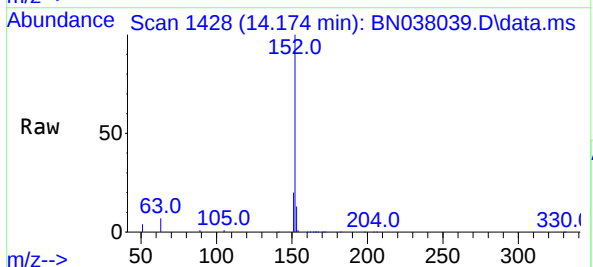
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

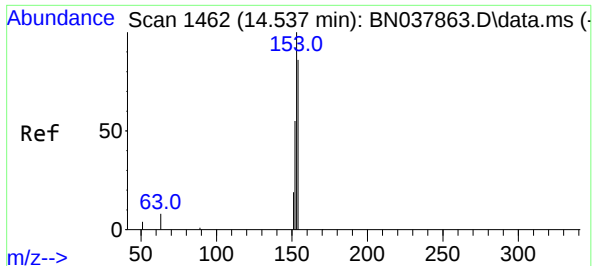
Tgt Ion:172 Resp: 22838  
Ion Ratio Lower Upper  
172 100  
171 34.5 28.6 43.0  
170 22.9 19.7 29.5



#16  
Acenaphthylene  
Concen: 0.375 ng  
RT: 14.174 min Scan# 1428  
Delta R.T. -0.021 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

Tgt Ion:152 Resp: 25561  
Ion Ratio Lower Upper  
152 100  
151 19.5 15.8 23.8  
153 13.1 10.5 15.7

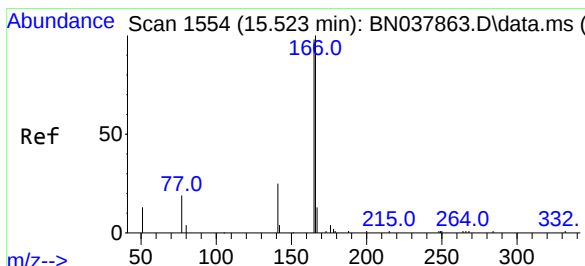
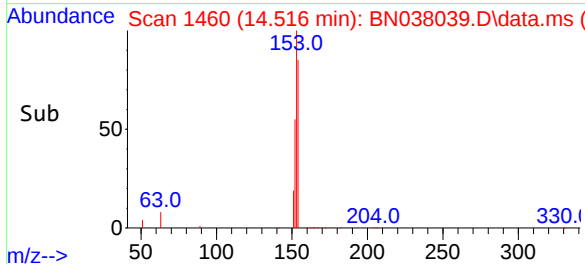
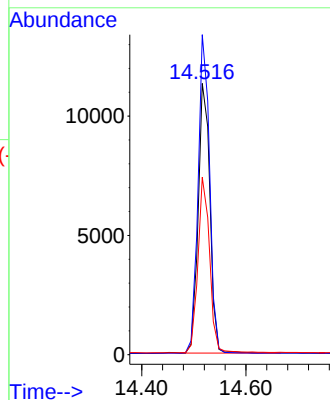
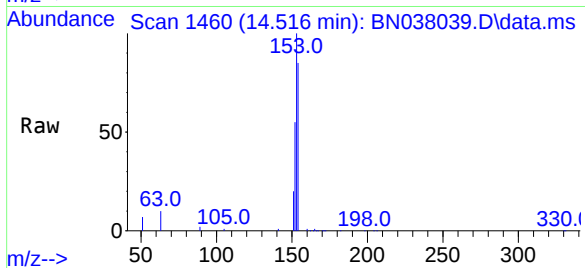




#17  
Acenaphthene  
Concen: 0.366 ng  
RT: 14.516 min Scan# 1460  
Delta R.T. -0.021 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

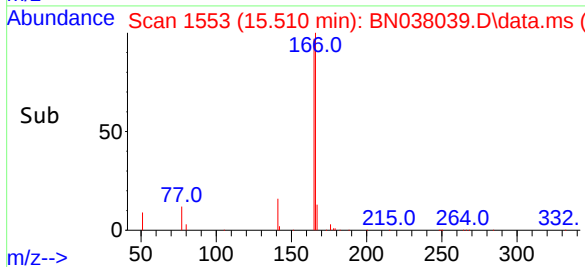
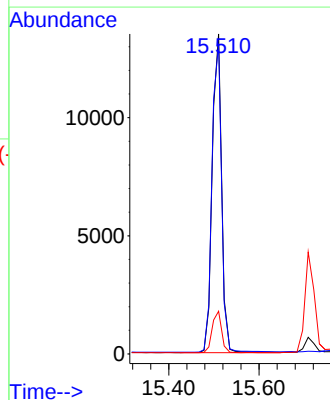
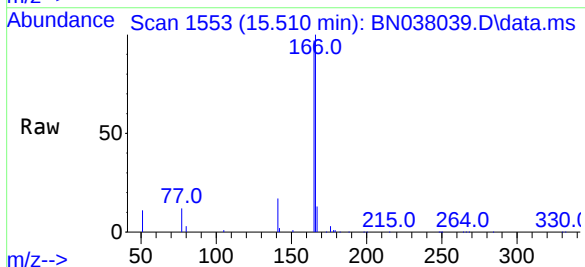
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

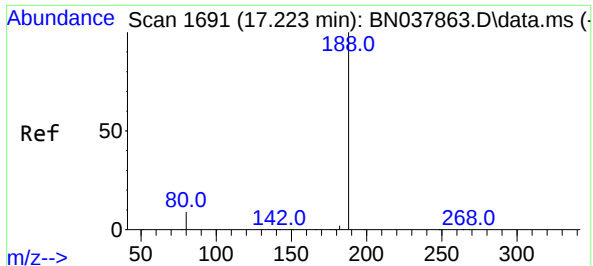
Tgt Ion:154 Resp: 17783  
Ion Ratio Lower Upper  
154 100  
153 115.7 90.5 135.7  
152 65.1 51.8 77.8



#18  
Fluorene  
Concen: 0.341 ng  
RT: 15.510 min Scan# 1553  
Delta R.T. -0.012 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

Tgt Ion:166 Resp: 20019  
Ion Ratio Lower Upper  
166 100  
165 99.1 79.0 118.4  
167 12.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

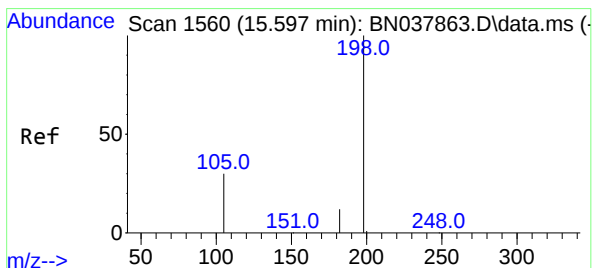
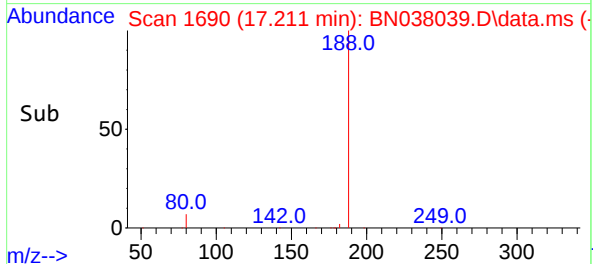
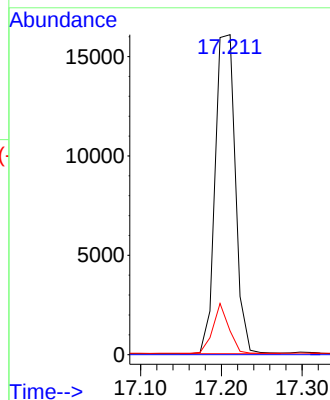
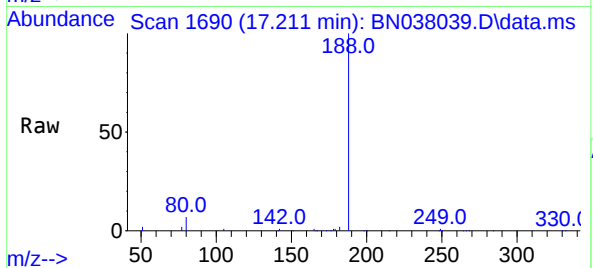
Tgt Ion:188 Resp: 27818

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.4 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.319 ng

RT: 15.585 min Scan# 1559

Delta R.T. -0.012 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

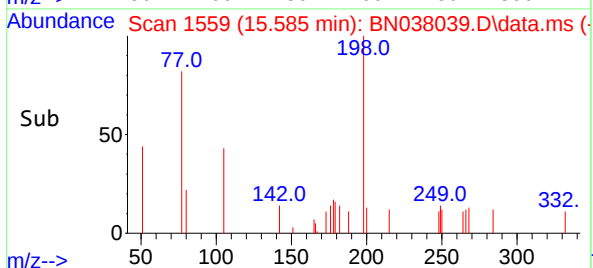
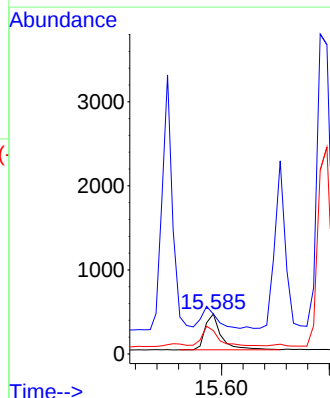
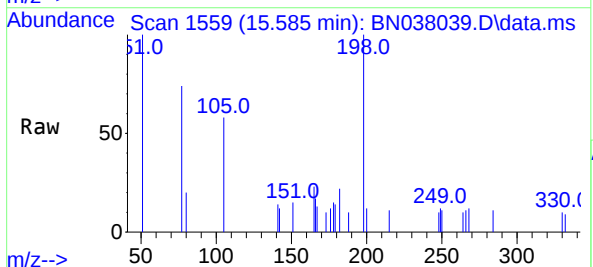
Tgt Ion:198 Resp: 893

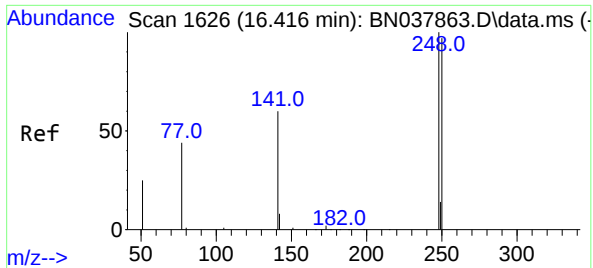
Ion Ratio Lower Upper

198 100

51 100.0 59.1 88.7#

105 58.4 41.3 61.9

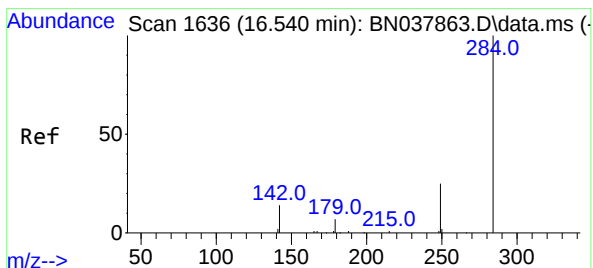
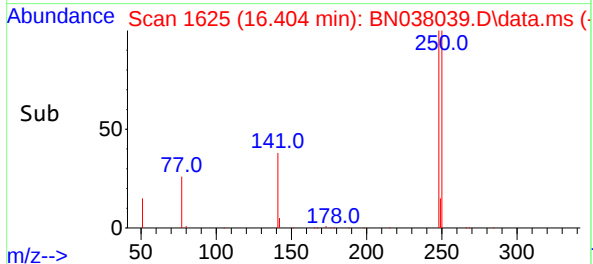
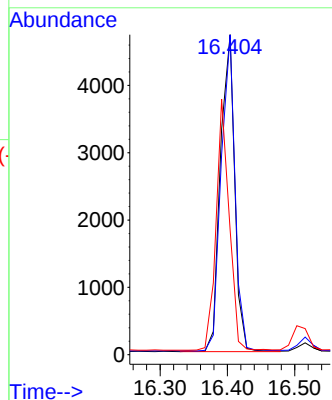
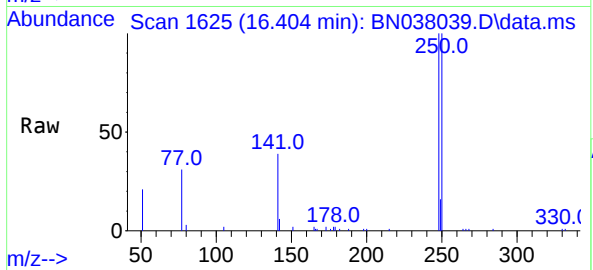




#21  
4-Bromophenyl-phenylether  
Concen: 0.381 ng  
RT: 16.404 min Scan# 1625  
Delta R.T. -0.012 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

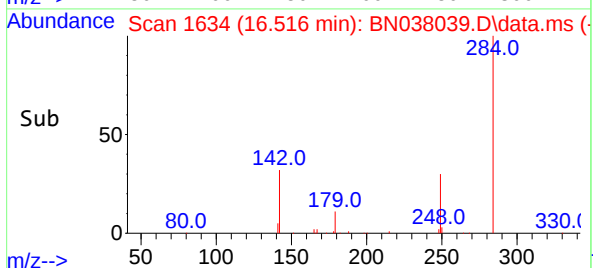
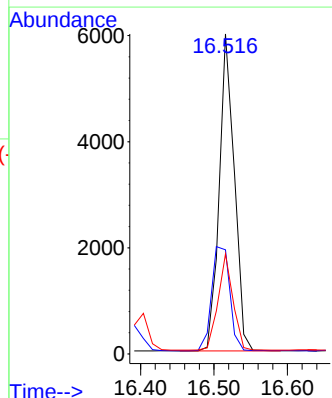
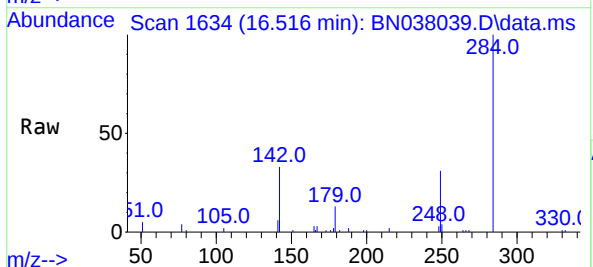
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

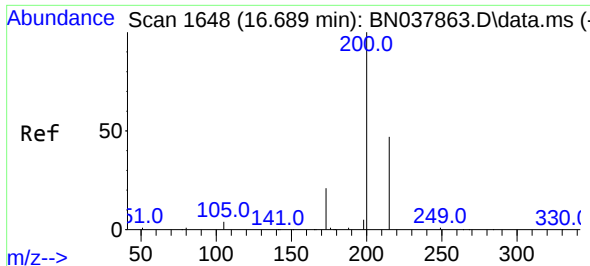
Tgt Ion:248 Resp: 6898  
Ion Ratio Lower Upper  
248 100  
250 99.9 77.6 116.4  
141 39.0 48.8 73.2#



#22  
Hexachlorobenzene  
Concen: 0.388 ng  
RT: 16.516 min Scan# 1634  
Delta R.T. -0.025 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

Tgt Ion:284 Resp: 8528  
Ion Ratio Lower Upper  
284 100  
142 39.8 30.9 46.3  
249 30.1 23.9 35.9

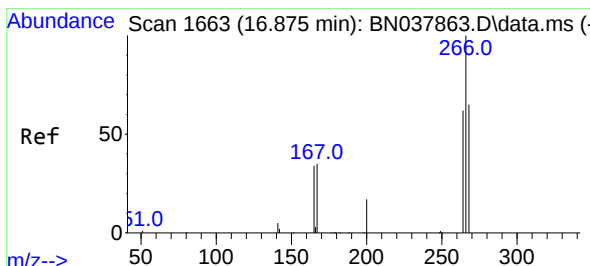
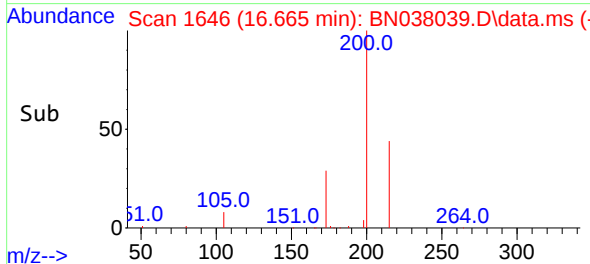
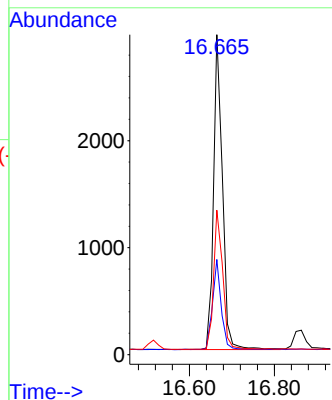
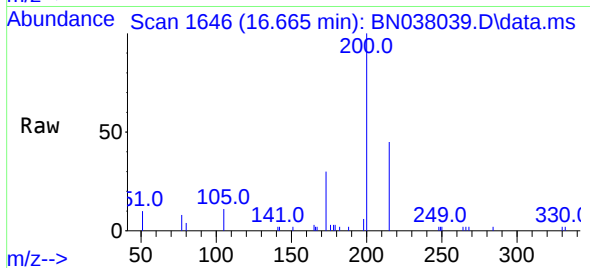




#23  
Atrazine  
Concen: 0.310 ng  
RT: 16.665 min Scan# 1646  
Delta R.T. -0.025 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

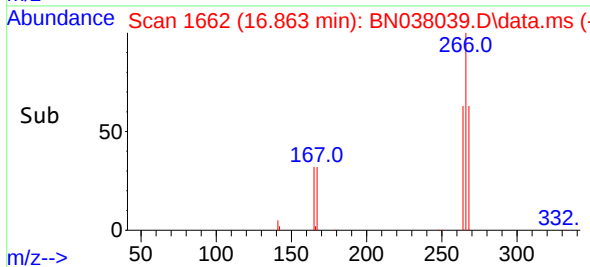
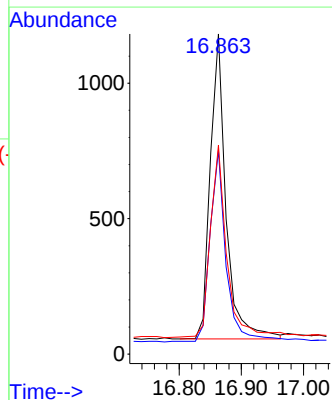
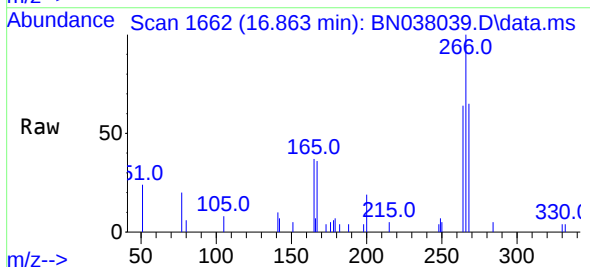
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

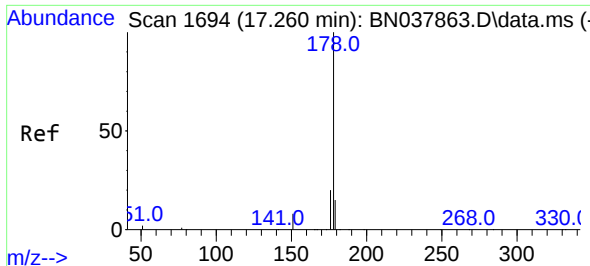
Tgt Ion:200 Resp: 4273  
Ion Ratio Lower Upper  
200 100  
173 29.8 18.3 27.5#  
215 45.1 38.6 58.0



#24  
Pentachlorophenol  
Concen: 0.263 ng  
RT: 16.863 min Scan# 1662  
Delta R.T. -0.012 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

Tgt Ion:266 Resp: 1986  
Ion Ratio Lower Upper  
266 100  
264 65.3 50.9 76.3  
268 66.9 54.3 81.5



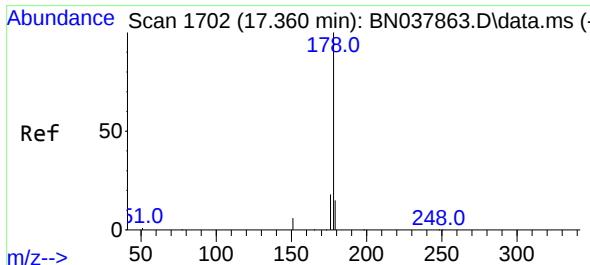
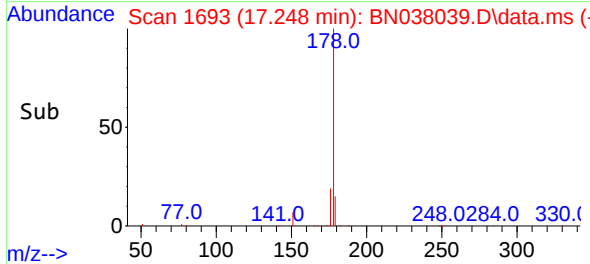
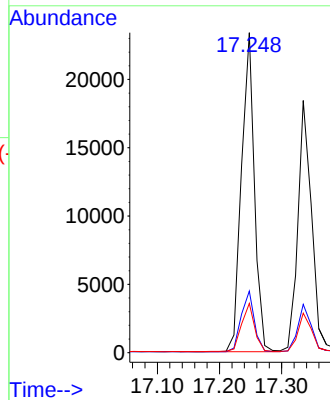
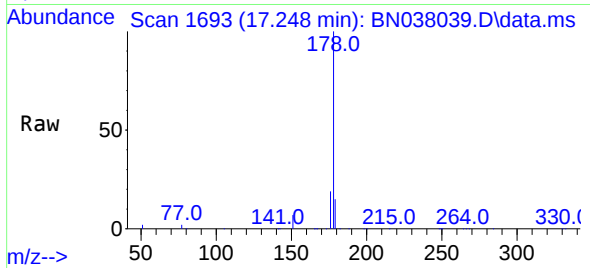


#25  
Phenanthrene  
Concen: 0.371 ng  
RT: 17.248 min Scan# 1  
Delta R.T. -0.012 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:178 Resp: 33982

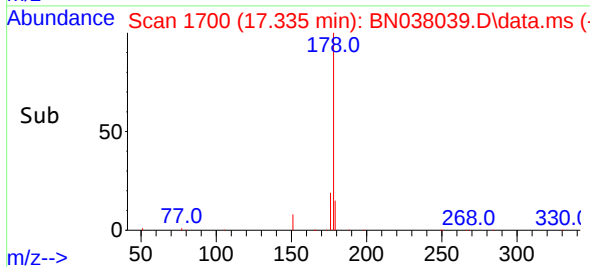
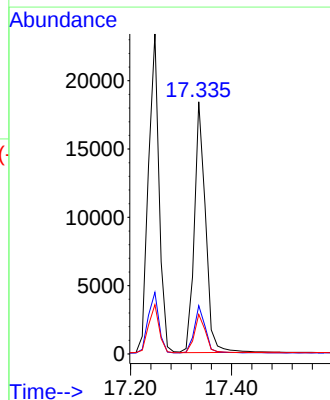
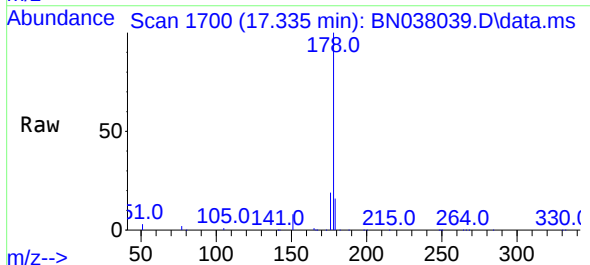
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 19.3  | 15.7  | 23.5  |
| 179 | 15.2  | 12.3  | 18.5  |

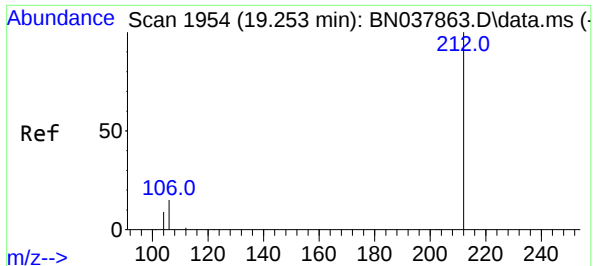


#26  
Anthracene  
Concen: 0.356 ng  
RT: 17.335 min Scan# 1700  
Delta R.T. -0.025 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

Tgt Ion:178 Resp: 28282

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 178 | 100   |       |       |
| 176 | 18.8  | 15.0  | 22.4  |
| 179 | 15.6  | 12.3  | 18.5  |





#27

Fluoranthene-d10

Concen: 0.326 ng

RT: 19.239 min Scan# 1951

Delta R.T. -0.014 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

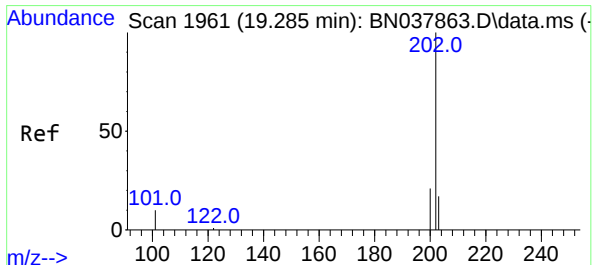
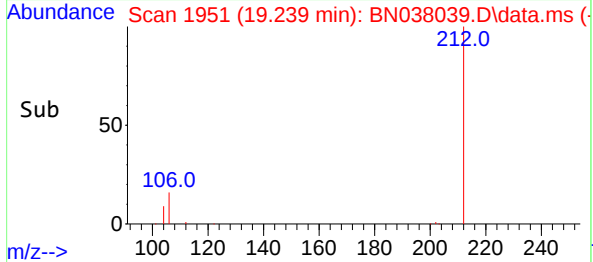
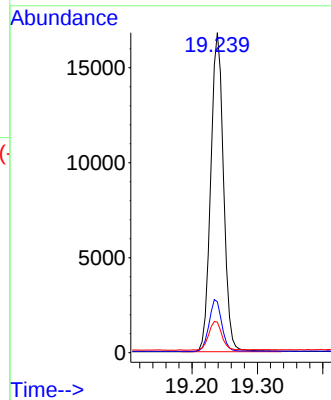
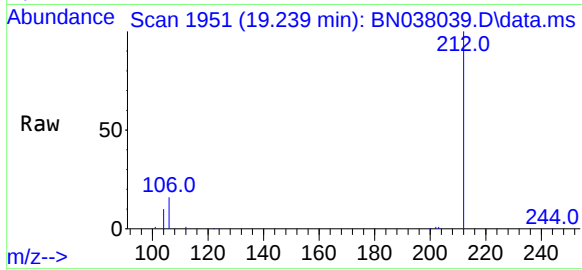
Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 212   | Resp: | 22814 |
| Ion      | Ratio | Lower | Upper |
| 212      | 100   |       |       |
| 106      | 16.1  | 12.6  | 19.0  |
| 104      | 9.3   | 7.4   | 11.0  |



#28

Fluoranthene

Concen: 0.328 ng

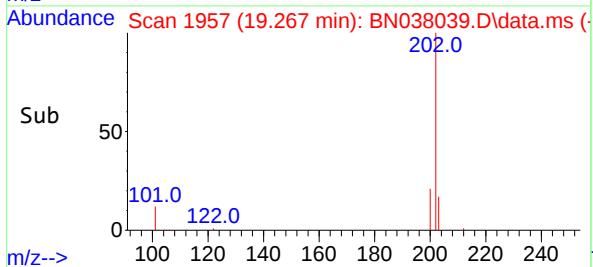
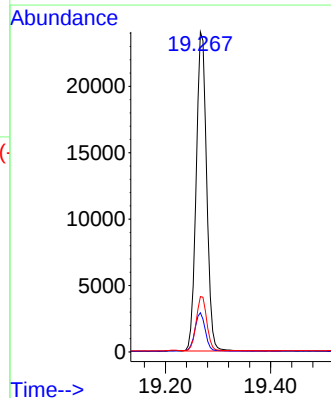
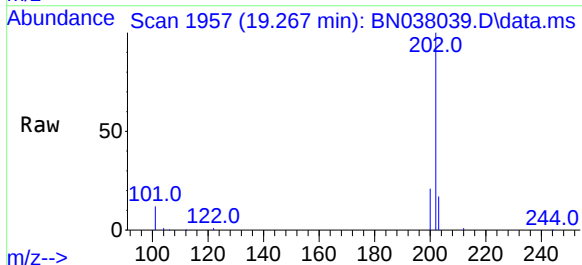
RT: 19.267 min Scan# 1957

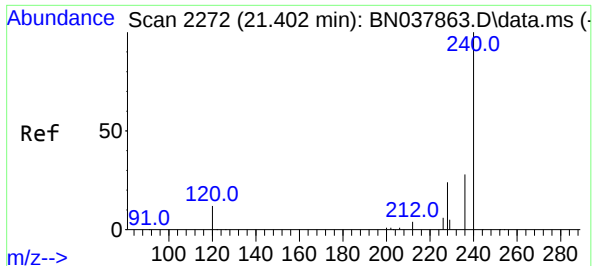
Delta R.T. -0.019 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 33045 |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 101      | 12.3  | 9.3   | 13.9  |
| 203      | 17.0  | 13.6  | 20.4  |

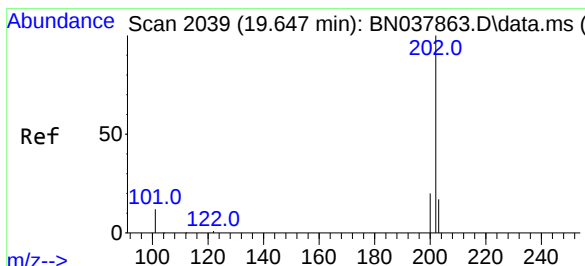
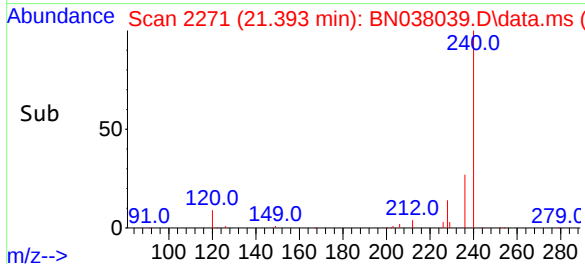
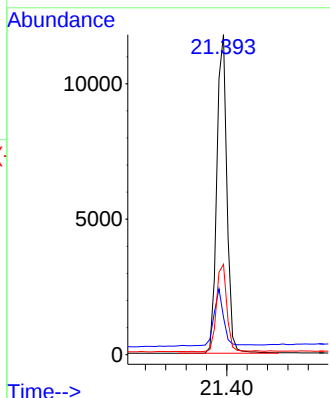
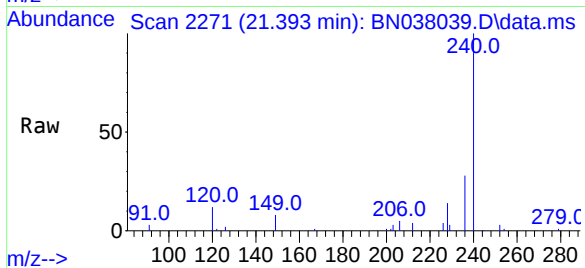




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.393 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

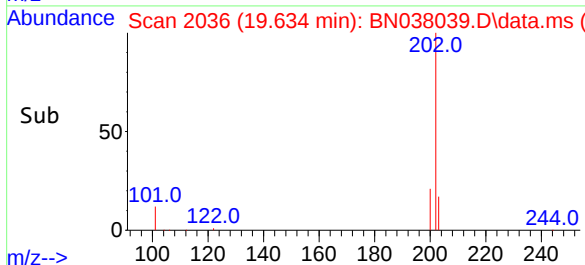
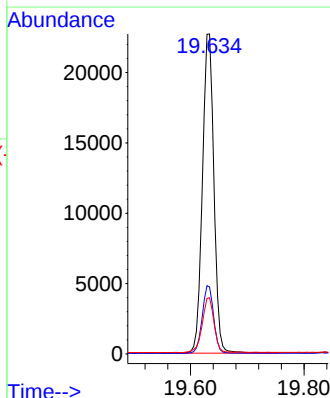
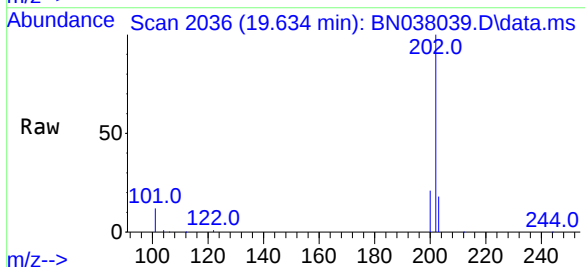
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

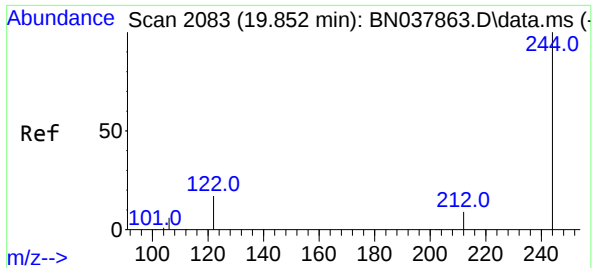
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 11.7  | 11.4  | 17.2  |
| 236     | 28.3  | 23.0  | 34.6  |



#30  
Pyrene  
Concen: 0.497 ng  
RT: 19.634 min Scan# 2036  
Delta R.T. -0.014 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.0  | 16.7  | 25.1  |
| 203     | 17.7  | 14.2  | 21.4  |

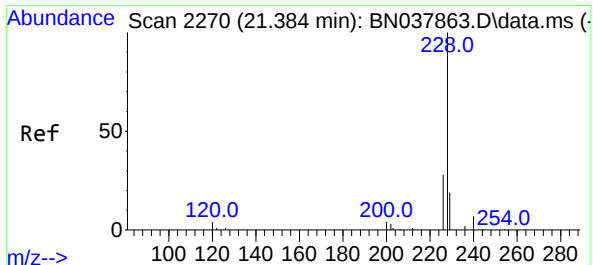
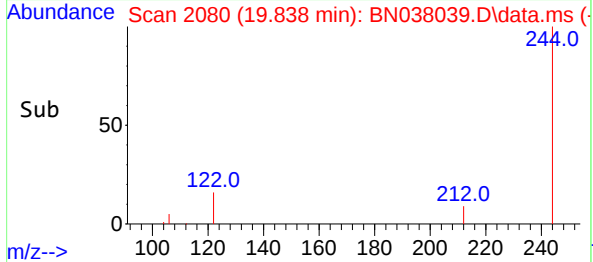
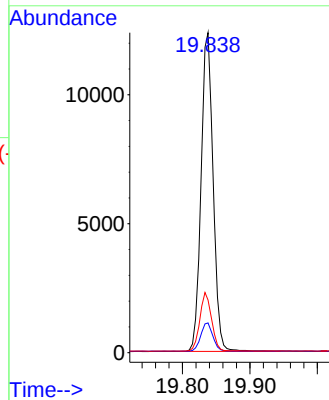
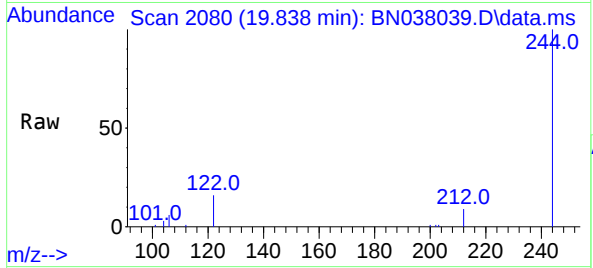




#31  
Terphenyl-d14  
Concen: 0.474 ng  
RT: 19.838 min Scan# 2080  
Delta R.T. -0.014 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

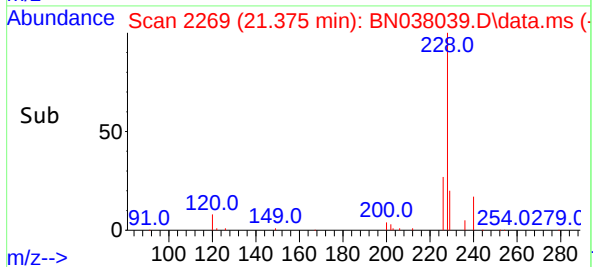
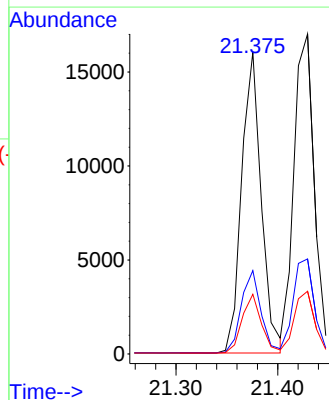
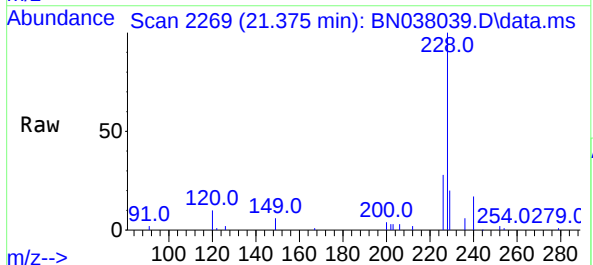
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

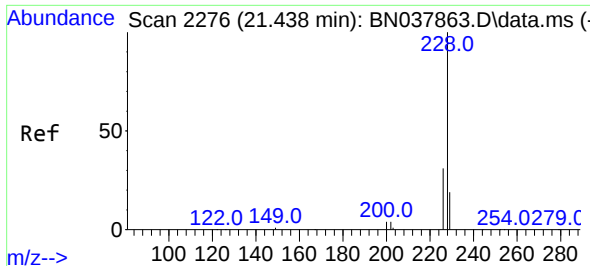
Tgt Ion:244 Resp: 15325  
Ion Ratio Lower Upper  
244 100  
212 9.3 7.6 11.4  
122 16.4 13.9 20.9



#32  
Benzo(a)anthracene  
Concen: 0.378 ng  
RT: 21.375 min Scan# 2269  
Delta R.T. -0.009 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

Tgt Ion:228 Resp: 21454  
Ion Ratio Lower Upper  
228 100  
226 27.6 22.6 33.8  
229 19.8 15.6 23.4

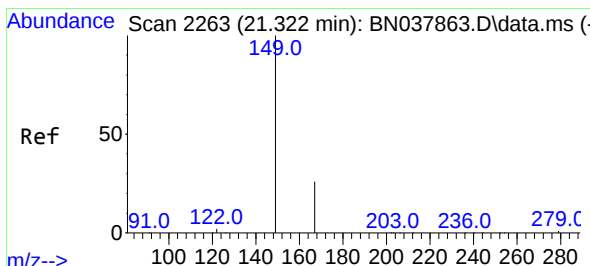
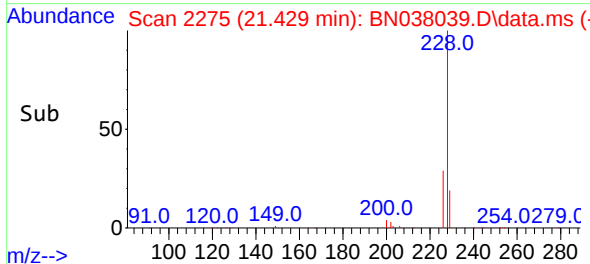
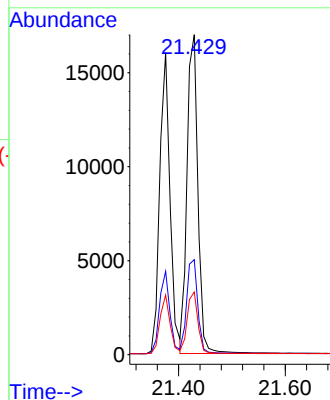
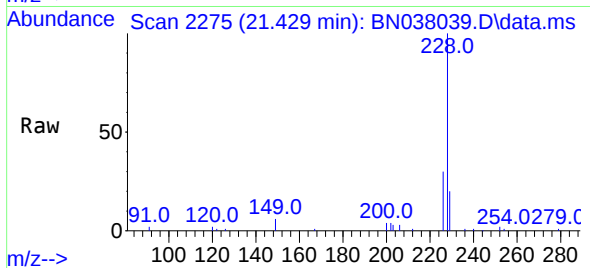




#33  
Chrysene  
Concen: 0.391 ng  
RT: 21.429 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

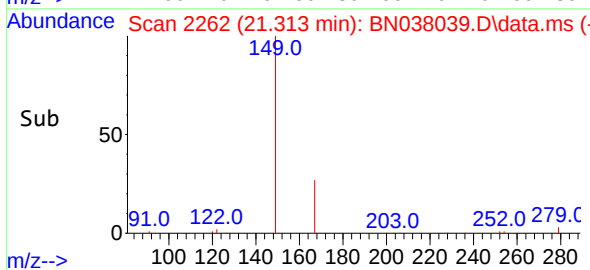
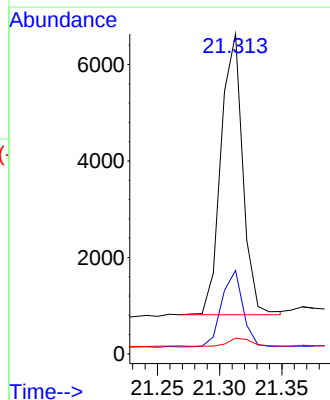
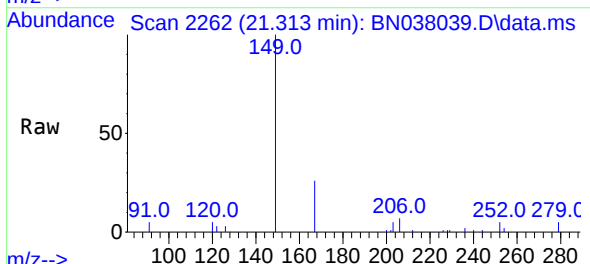
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

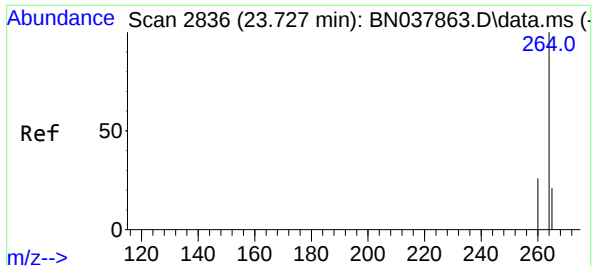
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.7  | 24.6  | 37.0  |
| 229     | 19.6  | 15.6  | 23.4  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.316 ng  
RT: 21.313 min Scan# 2262  
Delta R.T. -0.009 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 26.7  | 20.4  | 30.6  |
| 279     | 3.0   | 2.4   | 3.6   |

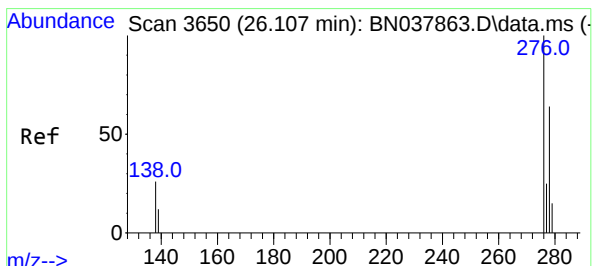
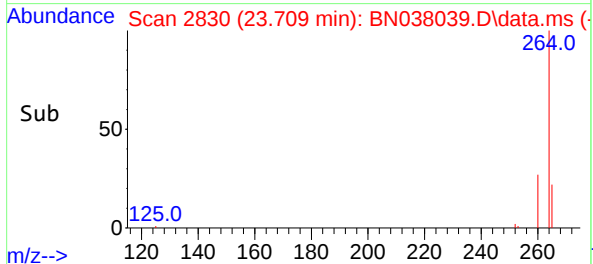
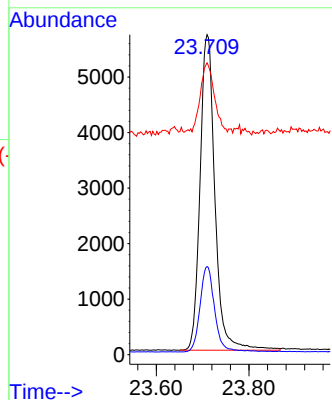
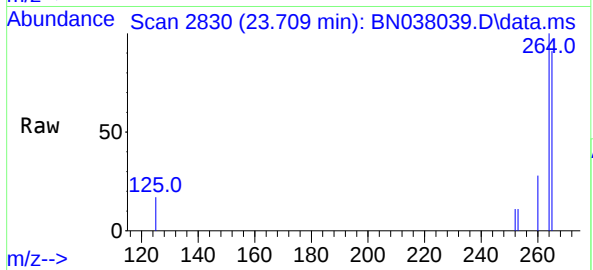




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.709 min Scan# 21  
Delta R.T. -0.017 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

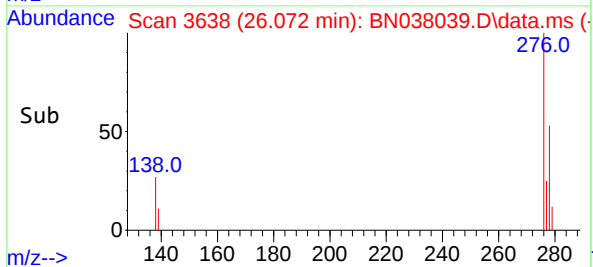
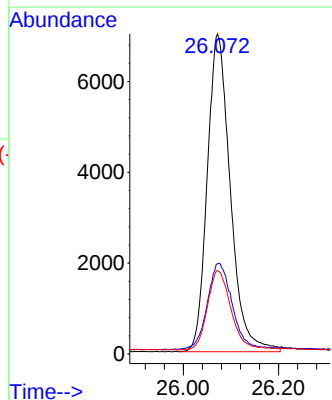
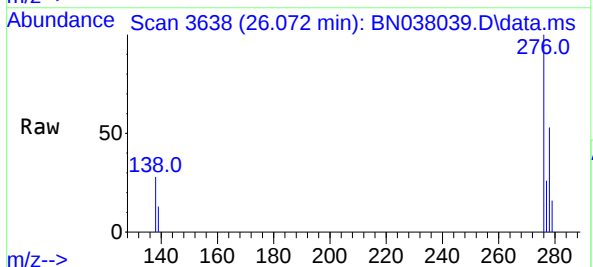
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

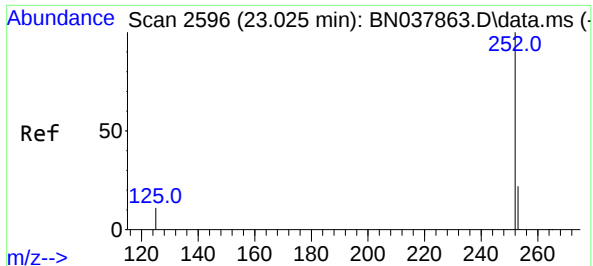
Tgt Ion:264 Resp: 12655  
Ion Ratio Lower Upper  
264 100  
260 27.6 21.5 32.3  
265 91.2 53.8 80.6#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.407 ng  
RT: 26.072 min Scan# 3638  
Delta R.T. -0.035 min  
Lab File: BN038039.D  
Acq: 07 Oct 2025 09:47

Tgt Ion:276 Resp: 23543  
Ion Ratio Lower Upper  
276 100  
138 29.4 21.4 32.0  
277 25.3 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.398 ng

RT: 23.008 min Scan# 21

Delta R.T. -0.017 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

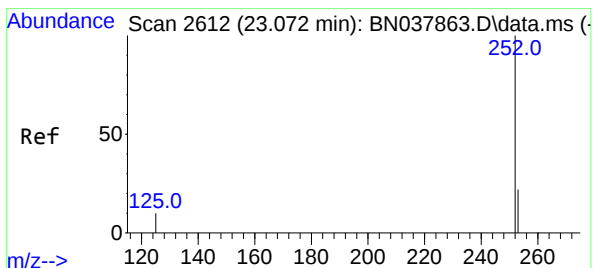
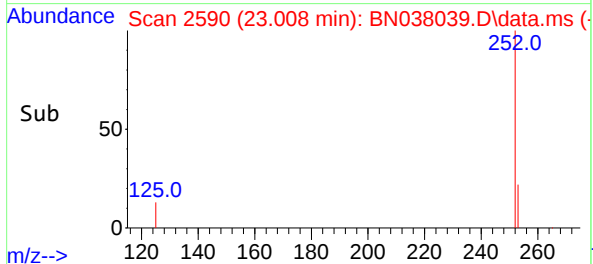
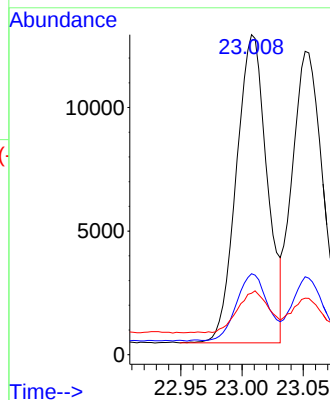
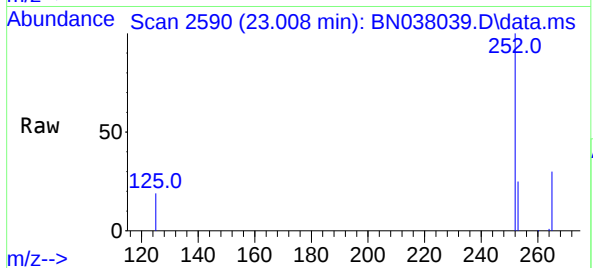
Tgt Ion:252 Resp: 21734

Ion Ratio Lower Upper

252 100

253 25.3 19.4 29.0

125 19.2 13.0 19.4



#38

Benzo(k)fluoranthene

Concen: 0.379 ng

RT: 23.052 min Scan# 2605

Delta R.T. -0.020 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

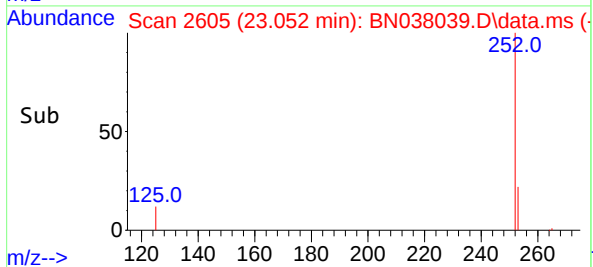
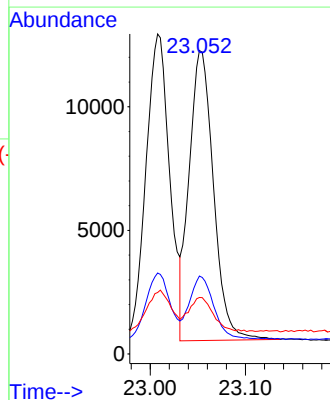
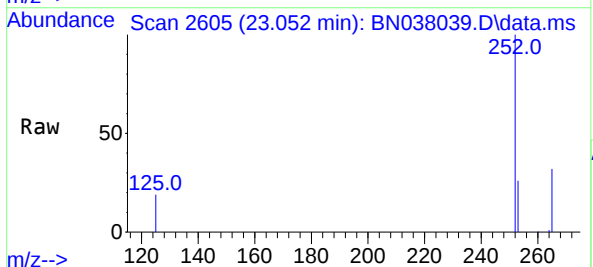
Tgt Ion:252 Resp: 20824

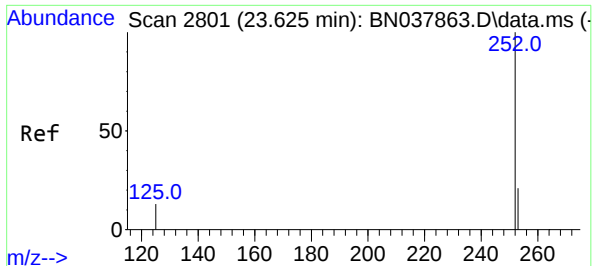
Ion Ratio Lower Upper

252 100

253 25.7 19.5 29.3

125 18.6 13.0 19.4





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.607 min Scan# 21

Delta R.T. -0.017 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

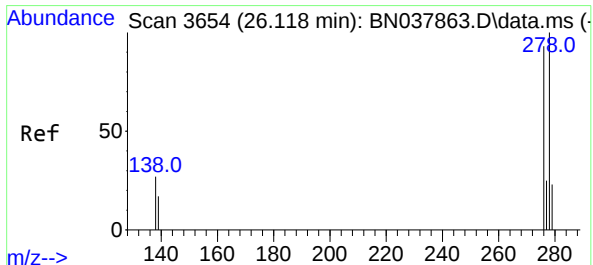
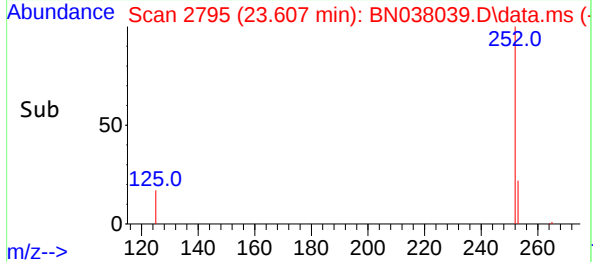
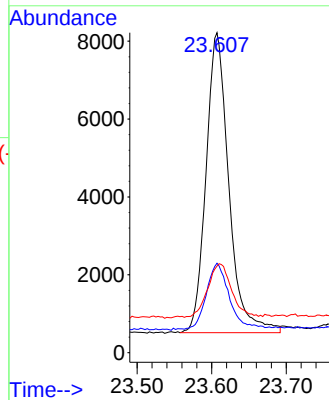
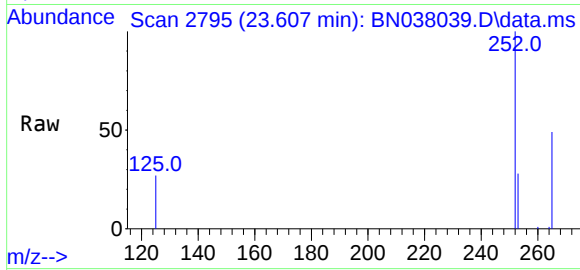
Tgt Ion:252 Resp: 16396

Ion Ratio Lower Upper

252 100

253 27.9 20.6 30.8

125 27.0 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.408 ng

RT: 26.092 min Scan# 3645

Delta R.T. -0.026 min

Lab File: BN038039.D

Acq: 07 Oct 2025 09:47

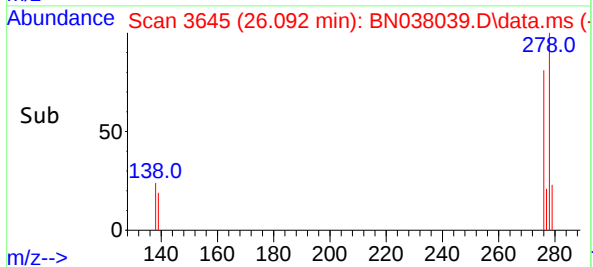
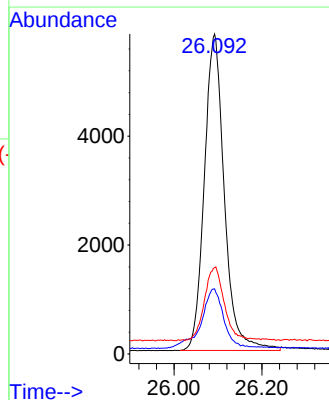
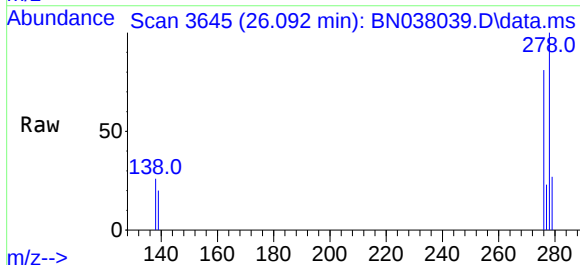
Tgt Ion:278 Resp: 18431

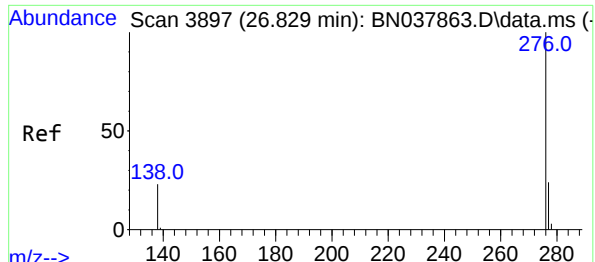
Ion Ratio Lower Upper

278 100

139 20.4 15.4 23.2

279 27.0 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.417 ng

RT: 26.797 min Scan# 3886

Delta R.T. -0.032 min

Lab File: BN038039.D

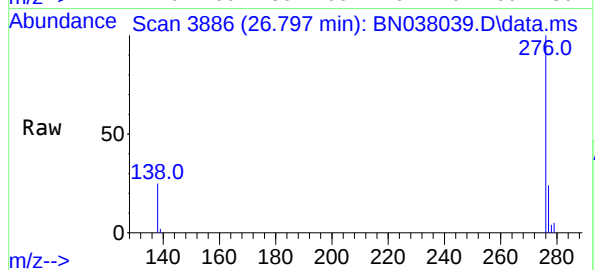
Acq: 07 Oct 2025 09:47

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



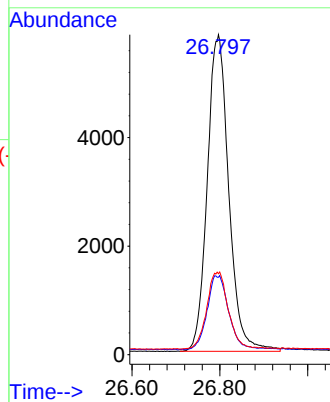
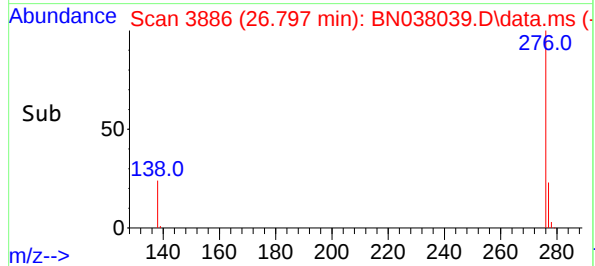
Tgt Ion:276 Resp: 19777

Ion Ratio Lower Upper

276 100

277 24.2 20.2 30.4

138 25.3 19.8 29.8



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038039.D  
Acq On : 07 Oct 2025 09:47  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 39 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Oct 07 10:39:40 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 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   | 173#  | -0.02    |
| 2       | 1,4-Dioxane                | 0.406 | 0.426 | -4.9  | 180#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.540 | 0.545 | -0.9  | 183#  | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.913 | 0.850 | 6.9   | 172#  | -0.01    |
| 5 S     | Phenol-d6                  | 1.199 | 1.108 | 7.6   | 171#  | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 1.113 | 1.093 | 1.8   | 175#  | -0.02    |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 178#  | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.305 | 0.291 | 4.6   | 179#  | -0.02    |
| 9       | Naphthalene                | 1.102 | 1.051 | 4.6   | 179#  | -0.02    |
| 10      | Hexachlorobutadiene        | 0.188 | 0.185 | 1.6   | 181#  | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.556 | 0.515 | 7.4   | 184#  | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.720 | 0.679 | 5.7   | 181#  | -0.02    |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 182#  | -0.02    |
| 14 S    | 2,4,6-Tribromophenol       | 0.152 | 0.117 | 23.0  | 157#  | -0.02    |
| 15 S    | 2-Fluorobiphenyl           | 1.638 | 1.521 | 7.1   | 178#  | -0.01    |
| 16      | Acenaphthylene             | 1.816 | 1.702 | 6.3   | 186#  | -0.02    |
| 17      | Acenaphthene               | 1.294 | 1.184 | 8.5   | 180#  | -0.02    |
| 18      | Fluorene                   | 1.565 | 1.333 | 14.8  | 167#  | -0.01    |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 175#  | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.057 | 0.032 | 43.9# | 128   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.261 | 0.248 | 5.0   | 177#  | -0.01    |
| 22      | Hexachlorobenzene          | 0.316 | 0.307 | 2.8   | 176#  | -0.02    |
| 23      | Atrazine                   | 0.199 | 0.154 | 22.6  | 156#  | -0.02    |
| 24      | Pentachlorophenol          | 0.108 | 0.071 | 34.3# | 135   | -0.01    |
| 25      | Phenanthrene               | 1.316 | 1.222 | 7.1   | 173#  | -0.01    |
| 26      | Anthracene                 | 1.142 | 1.017 | 10.9  | 173#  | -0.02    |
| 27 SURR | Fluoranthene-d10           | 1.006 | 0.820 | 18.5  | 161#  | -0.01    |
| 28      | Fluoranthene               | 1.450 | 1.188 | 18.1  | 158#  | -0.02    |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 120   | 0.00     |
| 30      | Pyrene                     | 1.579 | 1.961 | -24.2 | 154#  | -0.01    |
| 31 S    | Terphenyl-d14              | 0.797 | 0.944 | -18.4 | 150   | -0.01    |
| 32      | Benzo(a)anthracene         | 1.398 | 1.322 | 5.4   | 122   | 0.00     |
| 33      | Chrysene                   | 1.512 | 1.478 | 2.2   | 121   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.553 | 0.437 | 21.0  | 107   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 101   | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.828 | 1.860 | -1.8  | 113   | -0.04    |
| 37      | Benzo(b)fluoranthene       | 1.725 | 1.717 | 0.5   | 105   | -0.02    |
| 38      | Benzo(k)fluoranthene       | 1.736 | 1.646 | 5.2   | 104   | -0.02    |
| 39 C    | Benzo(a)pyrene             | 1.364 | 1.296 | 5.0   | 106   | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 1.427 | 1.456 | -2.0  | 112   | -0.03    |
| 41      | Benzo(g,h,i)perylene       | 1.499 | 1.563 | -4.3  | 112   | -0.03    |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
 Data File : BN038039.D  
 Acq On : 07 Oct 2025 09:47  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 39 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Oct 07 10:39:40 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 11:00:01 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   | 173   | -0.02    |
| 2       | 1,4-Dioxane                | 0.400  | 0.420 | -5.0  | 180   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.404 | -1.0  | 183   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.373 | 6.8   | 172   | -0.01    |
| 5 S     | Phenol-d6                  | 0.400  | 0.369 | 7.8   | 171   | -0.01    |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.393 | 1.8   | 175   | -0.02    |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 178   | -0.02    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.382 | 4.5   | 179   | -0.02    |
| 9       | Naphthalene                | 0.400  | 0.381 | 4.8   | 179   | -0.02    |
| 10      | Hexachlorobutadiene        | 0.400  | 0.394 | 1.5   | 181   | -0.02    |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.370 | 7.5   | 184   | -0.02    |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.377 | 5.8   | 181   | -0.02    |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 182   | -0.02    |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.309 | 22.8  | 157   | -0.02    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.372 | 7.0   | 178   | -0.01    |
| 16      | Acenaphthylene             | 0.400  | 0.375 | 6.3   | 186   | -0.02    |
| 17      | Acenaphthene               | 0.400  | 0.366 | 8.5   | 180   | -0.02    |
| 18      | Fluorene                   | 0.400  | 0.341 | 14.8  | 167   | -0.01    |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 175   | -0.01    |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.319 | 20.3  | 128   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.381 | 4.8   | 177   | -0.01    |
| 22      | Hexachlorobenzene          | 0.400  | 0.388 | 3.0   | 176   | -0.02    |
| 23      | Atrazine                   | 0.400  | 0.310 | 22.5  | 156   | -0.02    |
| 24      | Pentachlorophenol          | 0.400  | 0.263 | 34.3# | 135   | -0.01    |
| 25      | Phenanthrene               | 0.400  | 0.371 | 7.3   | 173   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.356 | 11.0  | 173   | -0.02    |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.326 | 18.5  | 161   | -0.01    |
| 28      | Fluoranthene               | 0.400  | 0.328 | 18.0  | 158   | -0.02    |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 120   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.497 | -24.2 | 154   | -0.01    |
| 31 S    | Terphenyl-d14              | 0.400  | 0.474 | -18.5 | 150   | -0.01    |
| 32      | Benzo(a)anthracene         | 0.400  | 0.378 | 5.5   | 122   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.391 | 2.3   | 121   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.316 | 21.0  | 107   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 101   | -0.02    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.407 | -1.7  | 113   | -0.04    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.398 | 0.5   | 105   | -0.02    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.379 | 5.3   | 104   | -0.02    |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.380 | 5.0   | 106   | -0.02    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.408 | -2.0  | 112   | -0.03    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.417 | -4.2  | 112   | -0.03    |

(#) = Out of Range

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



# QC SAMPLE DATA

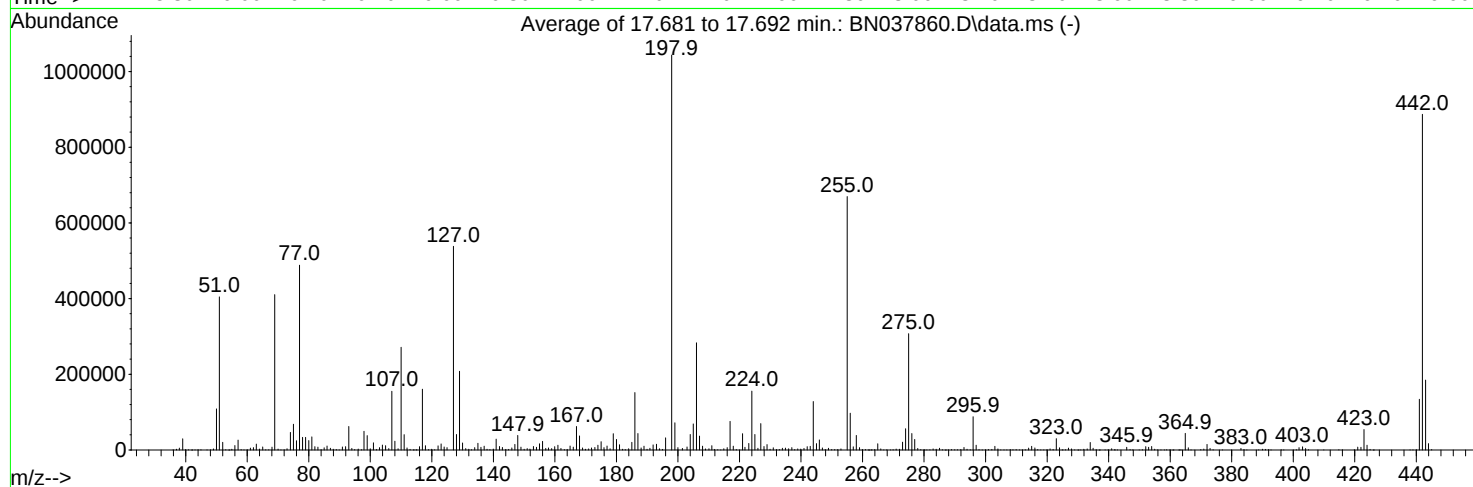
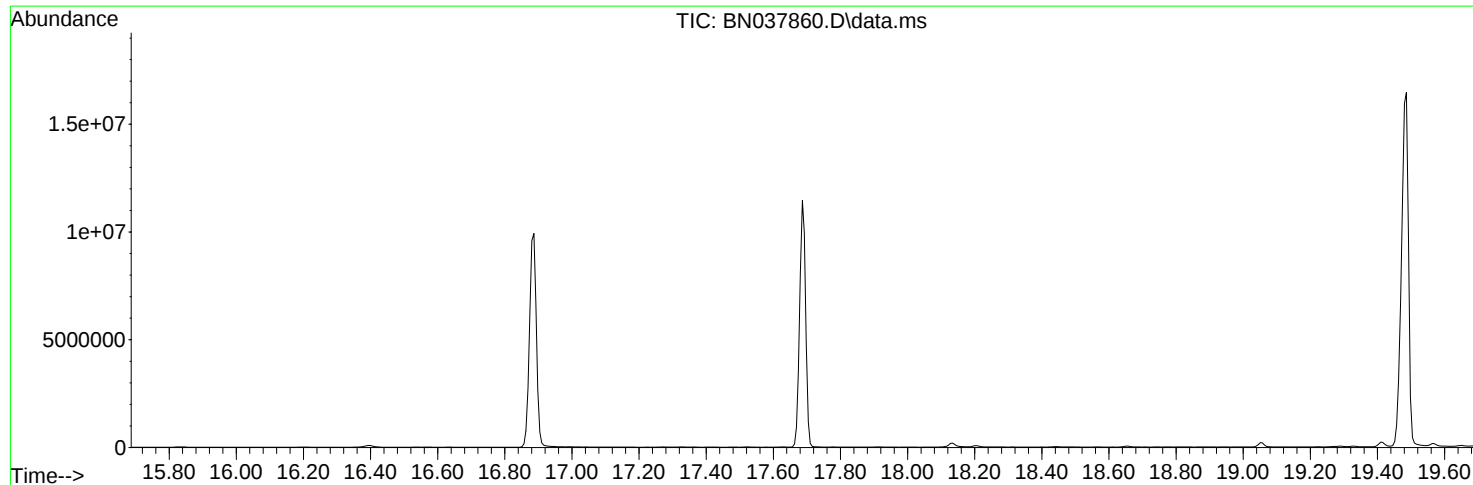
- 1
- 2
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- 10
- 11
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- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
Data File : BN037860.D  
Acq On : 23 Sep 2025 11:33  
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-BN092325.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Tue Sep 23 17:30:29 2025



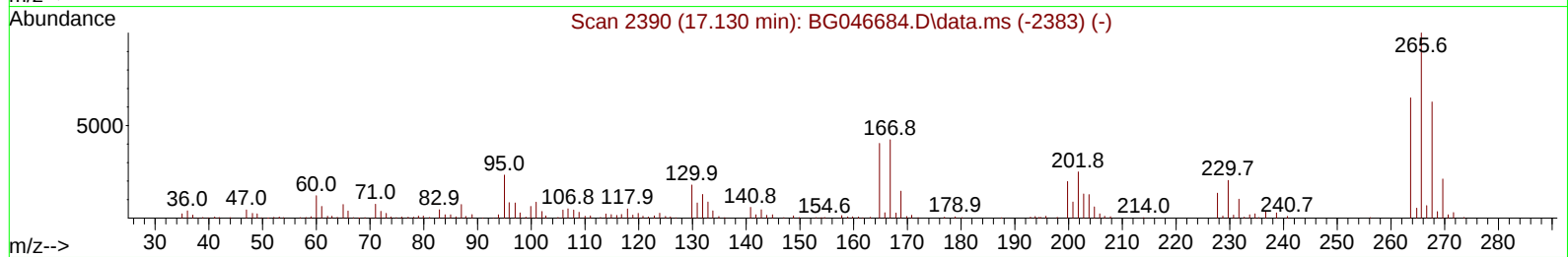
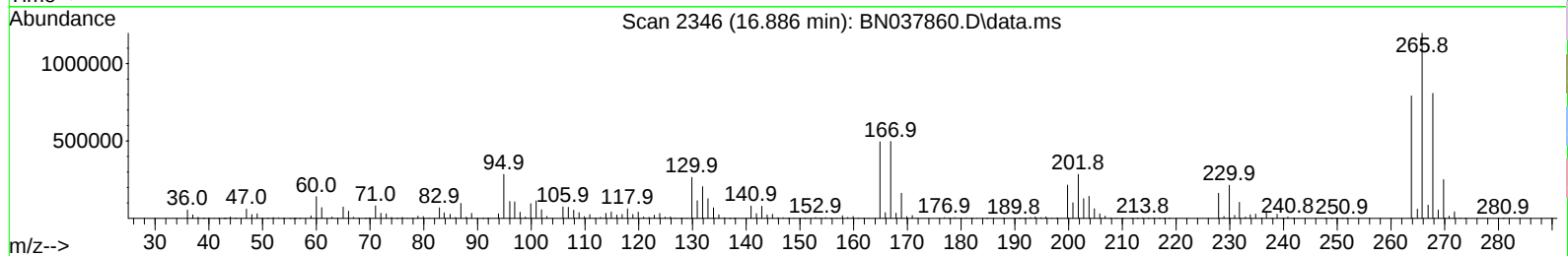
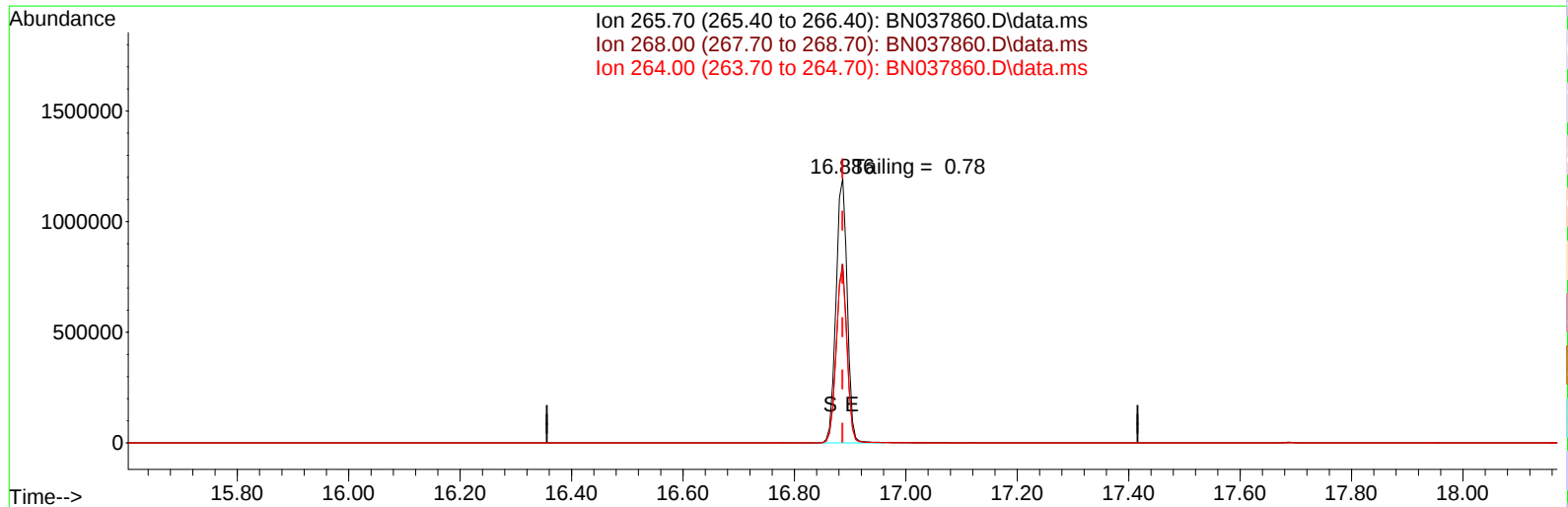
AutoFind: Scans 2481, 2482, 2483; Background Corrected with Scan 2474

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw     | Result    |
|--------|---------|--------|--------|-------|---------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn     | Pass/Fail |
| 68     | 69      | 0.00   | 2      | 1.8   | 7592    | PASS      |
| 69     | 69      | 100    | 100    | 100.0 | 410472  | PASS      |
| 70     | 69      | 0.00   | 2      | 0.6   | 2535    | PASS      |
| 197    | 198     | 0.00   | 2      | 0.0   | 0       | PASS      |
| 198    | 198     | 100    | 100    | 100.0 | 1043541 | PASS      |
| 199    | 198     | 5      | 9      | 6.9   | 71928   | PASS      |
| 365    | 198     | 1      | 100    | 4.2   | 43627   | PASS      |
| 441    | 443     | 0.01   | 150    | 72.6  | 133917  | PASS      |
| 442    | 442     | 100    | 100    | 100.0 | 886933  | PASS      |
| 443    | 442     | 15     | 24     | 20.8  | 184525  | PASS      |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN092325\  
Data File : BN037860.D  
Acq On : 23 Sep 2025 11:33  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Sep 23 19:20:36 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Sat Sep 20 01:53:13 2025  
Response via : Initial Calibration



TIC: BN037860.D\data.ms

**(70) Pentachlorophenol (C)**

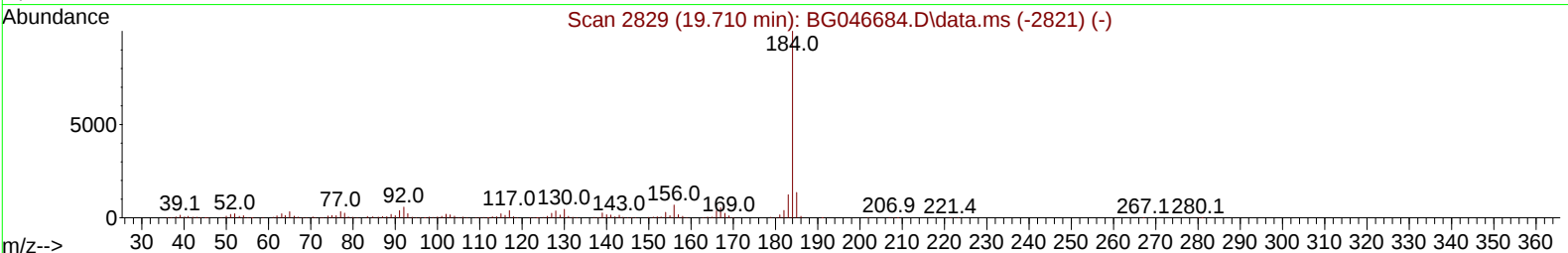
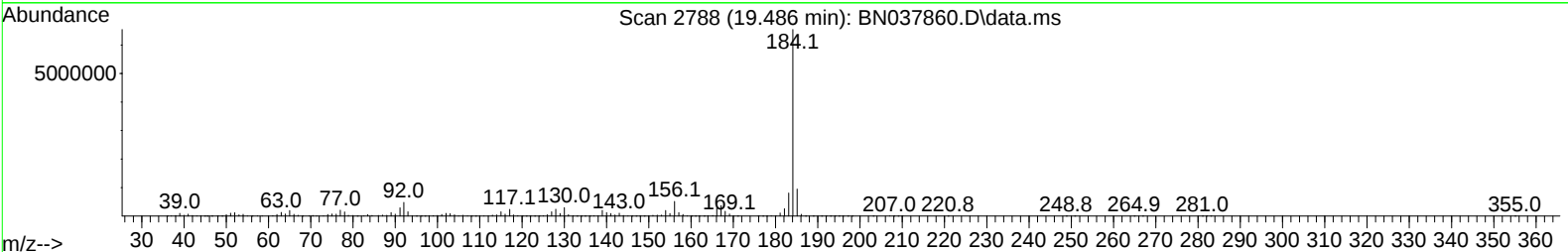
16.886min (+ 0.001) 30744.23 ng

response 1679260

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 67.46  |
| 264.00 | 61.60  | 66.17  |
| 0.00   | 0.00   | 0.00   |

**Instrument :**  
BNA\_N  
**ClientSampleId :**  
DFTPP

- 1
- 2
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- 4
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- 6
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- 12
- 13
- 14
- 15
- 16
- 17
- 18



| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.50  |
| 183.00 | 13.20  | 12.37  |
| 0.00   | 0.00   | 0.00   |

DDT Breakdown

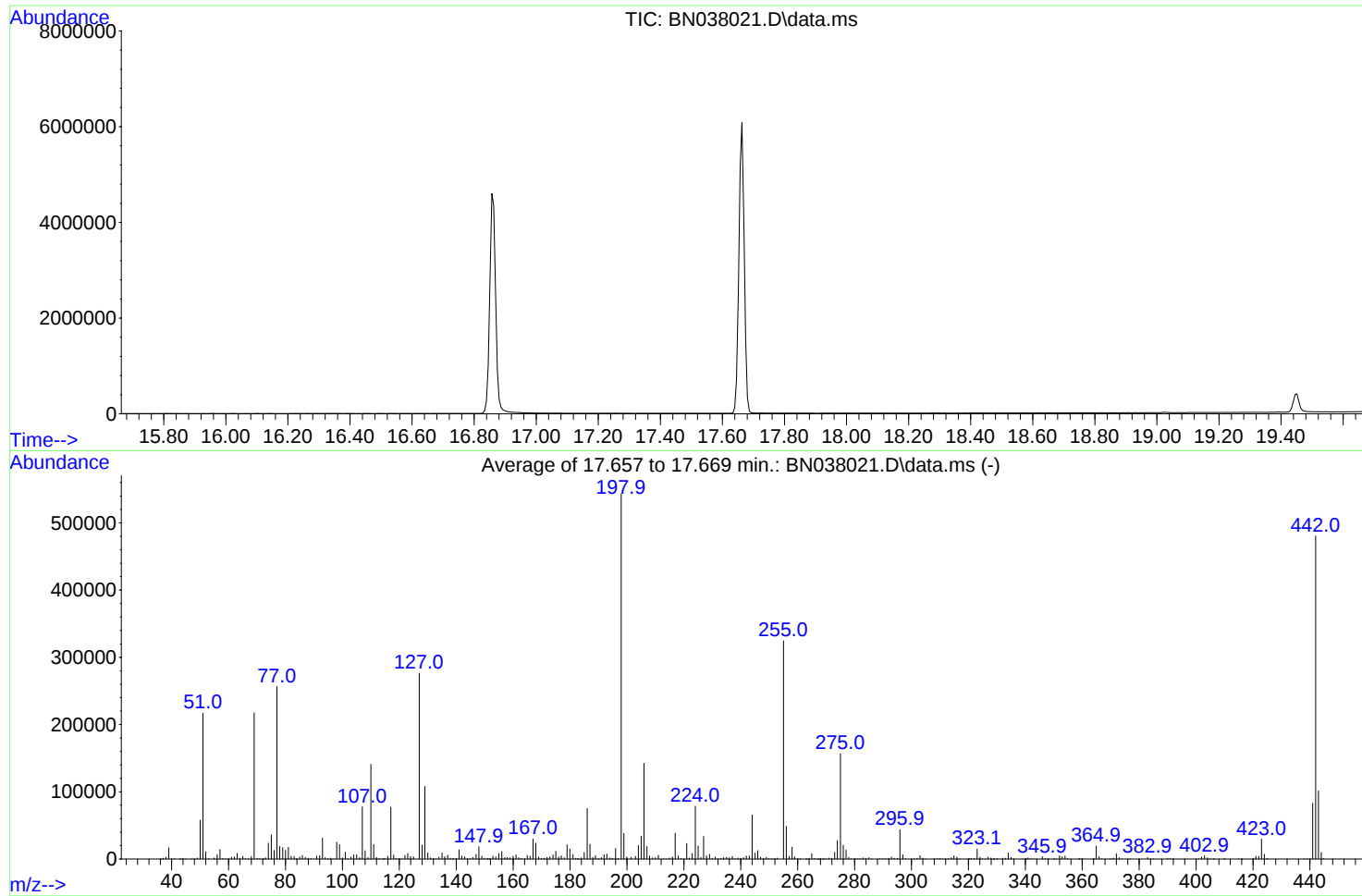
|               |                  |                    |
|---------------|------------------|--------------------|
| Date          | Instrument Name  | DFTPP Data File    |
| 9/23/2025     | BNA_N            | <u>BN037860.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 4305996          | 20.716             |
| DDD           | 11703            | 20.327             |
| DDE           | 258              | 19.769             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 11961         | 4317957          | 0.28               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038021.D  
Acq On : 06 Oct 2025 22:13  
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-BN092325.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Wed Sep 24 11:00:01 2025



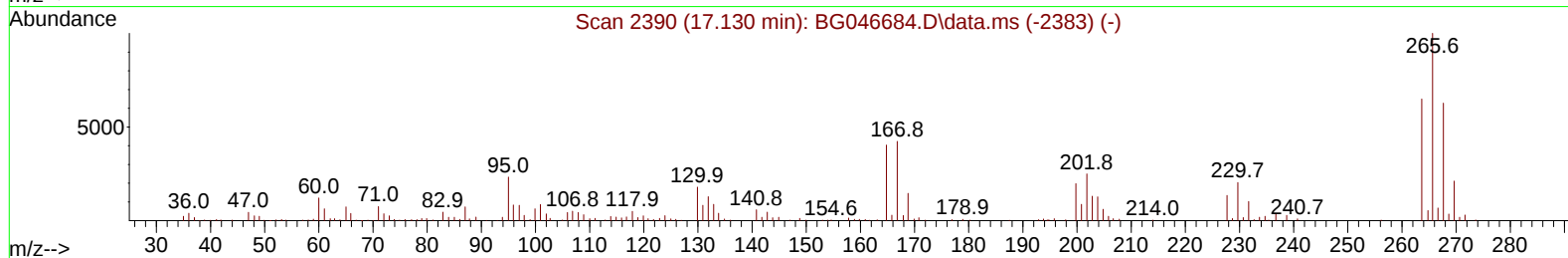
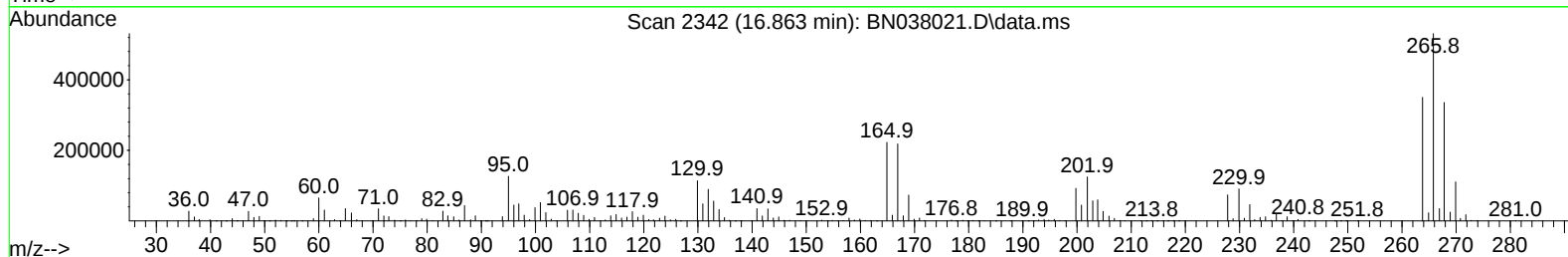
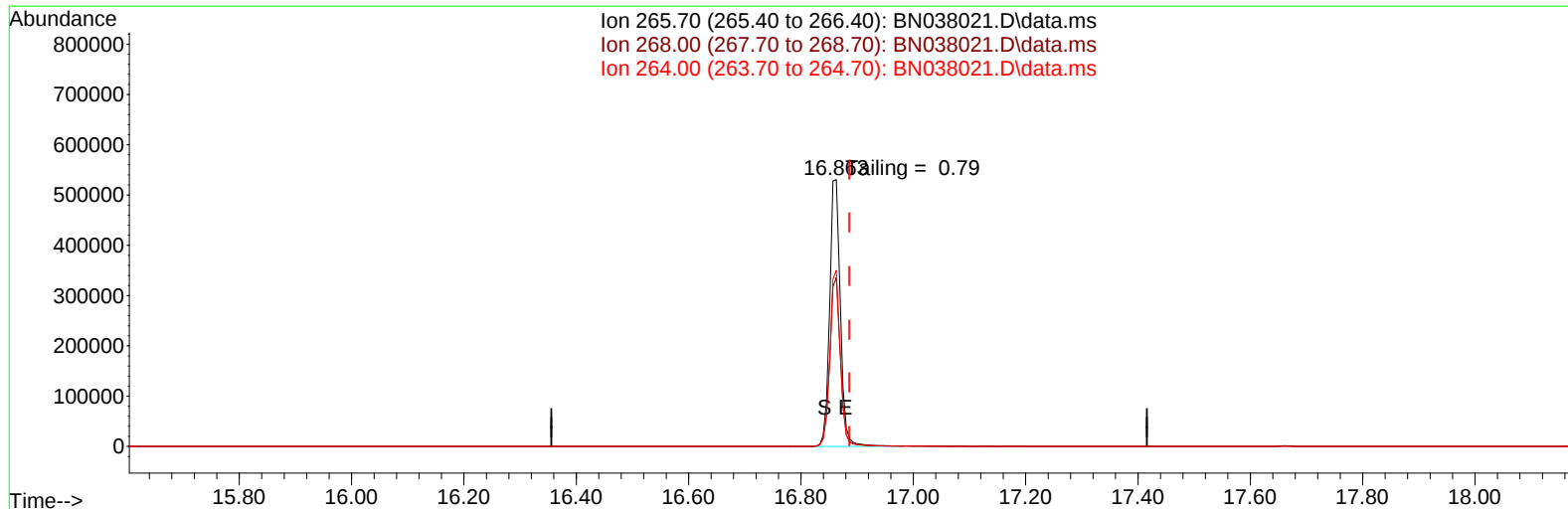
AutoFind: Scans 2477, 2478, 2479; Background Corrected with Scan 2469

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw    | Result    |
|--------|---------|--------|--------|-------|--------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn    | Pass/Fail |
| 68     | 69      | 0.00   | 2      | 1.8   | 3833   | PASS      |
| 69     | 69      | 100    | 100    | 100.0 | 217387 | PASS      |
| 70     | 69      | 0.00   | 2      | 0.5   | 1053   | PASS      |
| 197    | 198     | 0.00   | 2      | 0.2   | 1130   | PASS      |
| 198    | 198     | 100    | 100    | 100.0 | 543040 | PASS      |
| 199    | 198     | 5      | 9      | 7.0   | 38141  | PASS      |
| 365    | 198     | 1      | 100    | 3.5   | 19270  | PASS      |
| 441    | 443     | 0.01   | 150    | 81.7  | 82901  | PASS      |
| 442    | 442     | 100    | 100    | 100.0 | 480363 | PASS      |
| 443    | 442     | 15     | 24     | 21.1  | 101427 | PASS      |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038021.D  
Acq On : 06 Oct 2025 22:13  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Oct 07 01:36:07 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Sep 29 10:34:59 2025  
Response via : Initial Calibration



TIC: BN038021.D\data.ms

**(70) Pentachlorophenol (C)**

16.863min (-0.023) 25768.22 ng

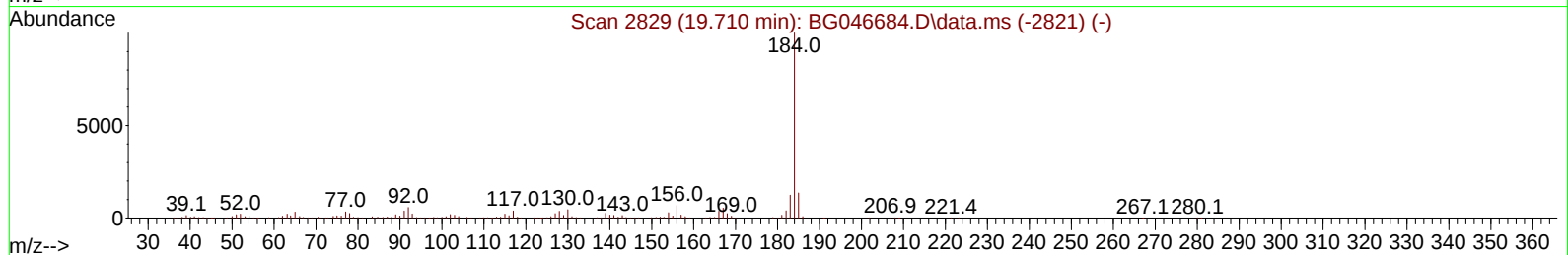
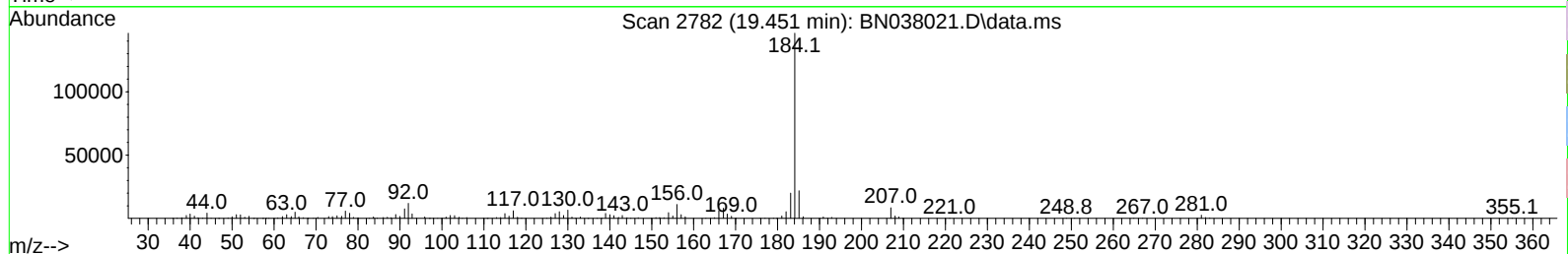
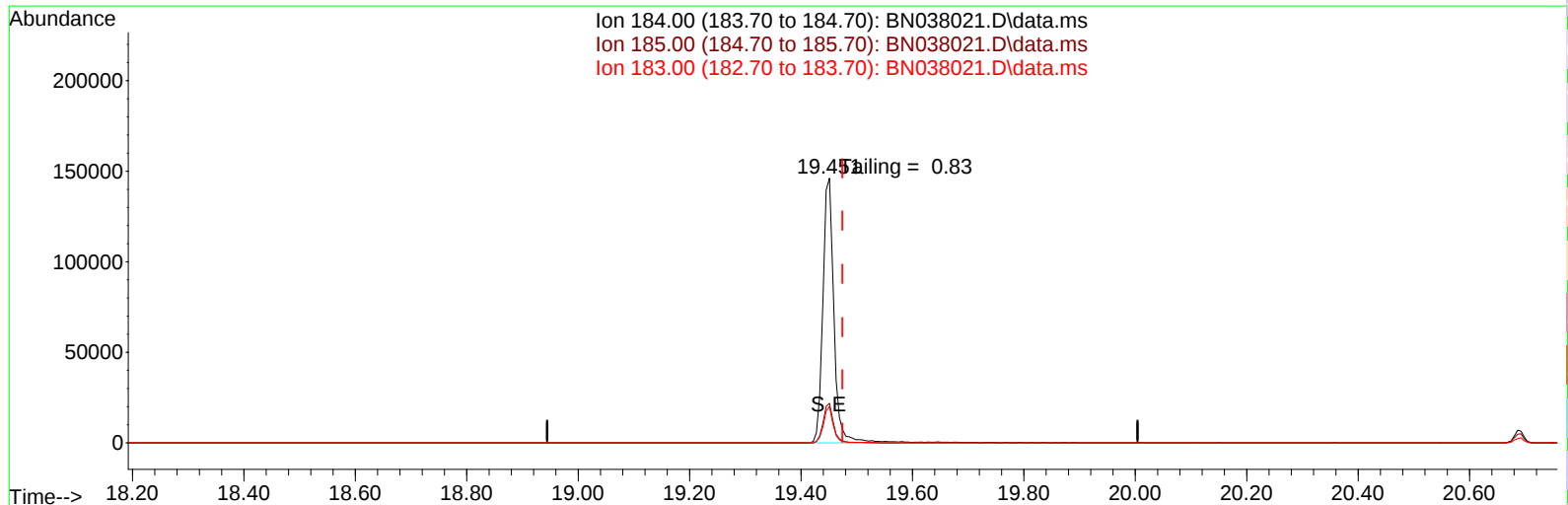
response 704341

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 63.25  |
| 264.00 | 61.60  | 65.95  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038021.D  
Acq On : 06 Oct 2025 22:13  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Oct 07 01:36:07 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Sep 29 10:34:59 2025  
Response via : Initial Calibration



TIC: BN038021.D\data.ms

**(77) Benizidine**

19.451min (-0.023) 0.00 ng

response 201168

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.96  |
| 183.00 | 13.20  | 13.71  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 10/6/2025     | BNA_N            | <u>BN038021.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 1680193          | 20.698             |
| DDD           | 6164             | 20.315             |
| DDE           | 438              | 19.757             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 6602          | 1686795          | 0.39               |
|               |                  |                    |

## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  |                |
| Client Sample ID:  | PB169904BL                    | SDG No.:        | Q3213          |
| Lab Sample ID:     | PB169904BL                    | 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 |
| BN038023.D        | 1         | 09/26/25 13:15 | 10/07/25 00:08 | PB169904      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.20  | U         | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.33  |           | 30 - 150 |      | 82%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.28  |           | 30 - 150 |      | 70%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 55 - 111 |      | 90%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.38  |           | 53 - 106 |      | 94%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.42  |           | 58 - 132 |      | 104%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 7850  |           | 7.804    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 20700 |           | 10.605   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 9110  |           | 14.462   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 15300 |           | 17.211   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 8020  |           | 21.384   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 7900  |           | 23.706   |      |            |          |

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\BN100625\  
Data File : BN038023.D  
Acq On : 07 Oct 2025 00:08  
Operator : RC/JU  
Sample : PB169904BL  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BL

Quant Time: Oct 07 01:54:01 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.804  | 152  | 7850     | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8           | 10.605 | 136  | 20745    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10        | 14.462 | 164  | 9107     | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10        | 17.211 | 188  | 15264    | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12            | 21.384 | 240  | 8024     | 0.400 | ng    | #-0.02   |
| 35) Perylene-d12            | 23.706 | 264  | 7902     | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.377  | 112  | 6434     | 0.359 | ng    | 0.00     |
| 5) Phenol-d6                | 6.966  | 99   | 7875     | 0.335 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.950  | 82   | 5676     | 0.359 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10 | 12.202 | 152  | 9416     | 0.327 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol    | 15.957 | 330  | 816      | 0.236 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl        | 13.083 | 172  | 13974    | 0.375 | ng    | -0.01    |
| 27) Fluoranthene-d10        | 19.239 | 212  | 10714    | 0.279 | ng    | -0.01    |
| 31) Terphenyl-d14           | 19.838 | 244  | 6667     | 0.417 | ng    | -0.01    |

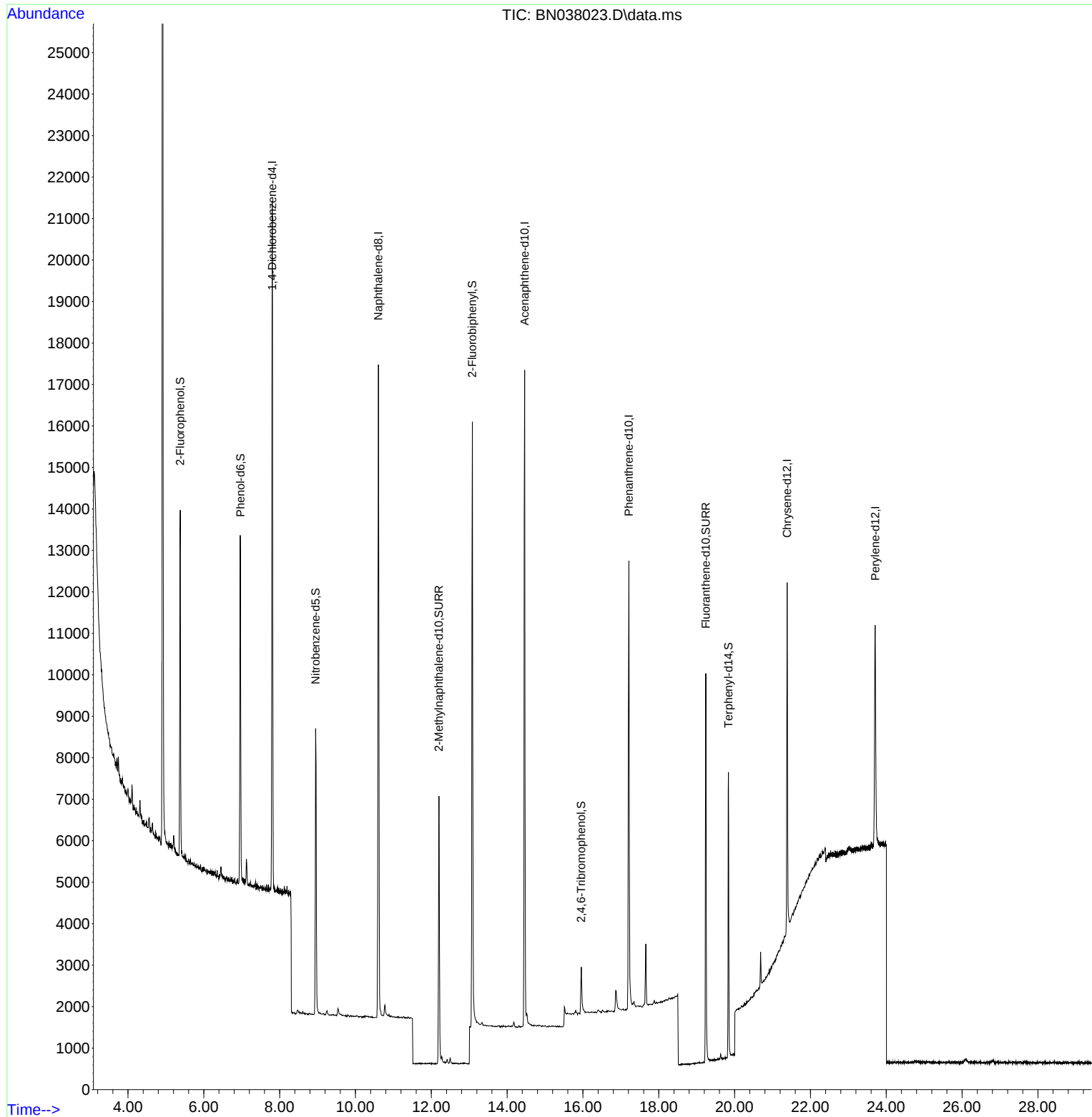
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

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

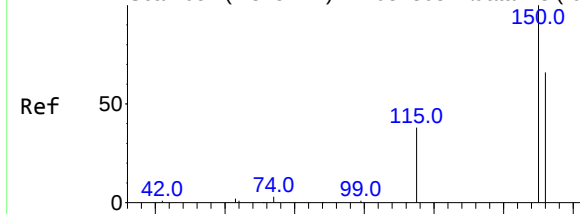
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038023.D  
Acq On : 07 Oct 2025 00:08  
Operator : RC/JU  
Sample : PB169904BL  
Misc :  
ALS Vial : 23 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BL

Quant Time: Oct 07 01:54:01 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038023.D

Acq: 07 Oct 2025 00:08

Instrument :

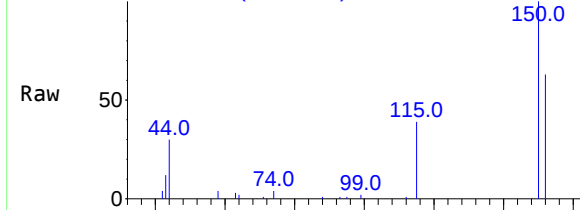
BNA\_N

ClientSampleId :

PB169904BL

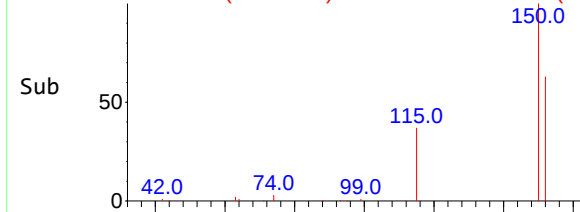
m/z--&gt;

Abundance Scan 654 (7.804 min): BN038023.D\data.ms



m/z--&gt;

Abundance Scan 654 (7.804 min): BN038023.D\data.ms (-62



m/z--&gt;

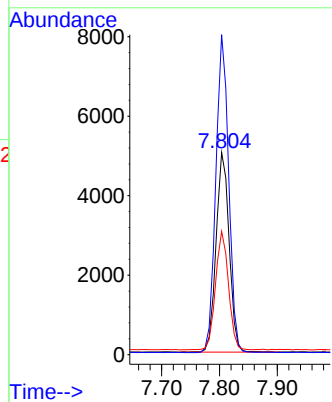
Tgt Ion:152 Resp: 7850

Ion Ratio Lower Upper

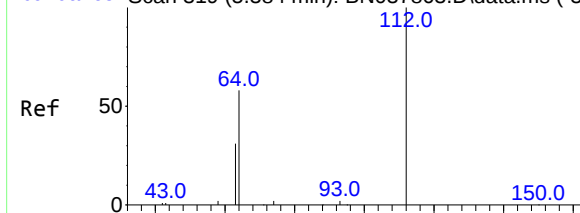
152 100

150 158.3 121.0 181.4

115 61.0 47.4 71.0

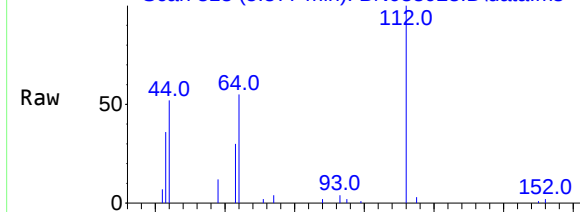


Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31



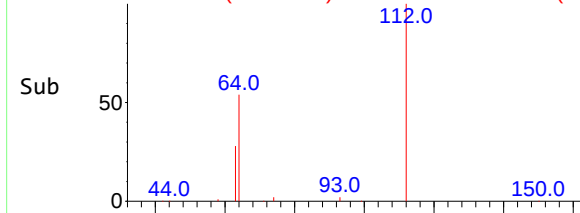
m/z--&gt;

Abundance Scan 318 (5.377 min): BN038023.D\data.ms



m/z--&gt;

Abundance Scan 318 (5.377 min): BN038023.D\data.ms (-29



m/z--&gt;

#4

2-Fluorophenol

Concen: 0.359 ng

RT: 5.377 min Scan# 318

Delta R.T. -0.007 min

Lab File: BN038023.D

Acq: 07 Oct 2025 00:08

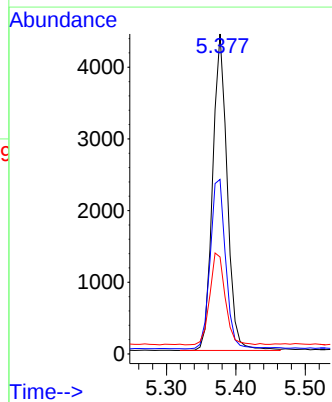
Tgt Ion:112 Resp: 6434

Ion Ratio Lower Upper

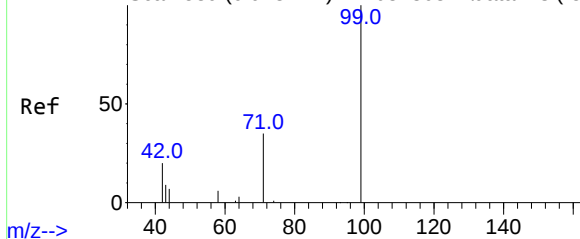
112 100

64 57.3 44.6 66.8

63 30.5 24.9 37.3



Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53



#5

Phenol-d6

Concen: 0.335 ng

RT: 6.966 min Scan# 51

Delta R.T. -0.007 min

Lab File: BN038023.D

Acq: 07 Oct 2025 00:08

Instrument :

BNA\_N

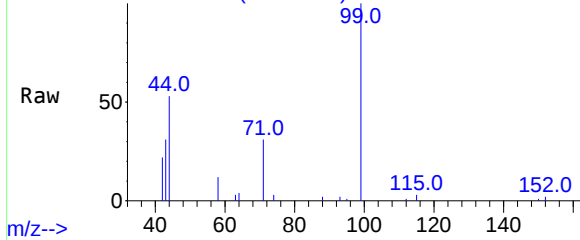
ClientSampleId :

PB169904BL

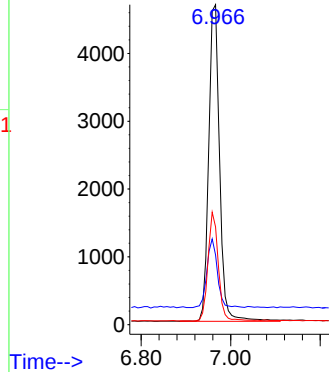
Tgt Ion: 99 Resp: 7875

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 21.0  | 17.2  | 25.8  |
| 71  | 32.7  | 27.3  | 40.9  |

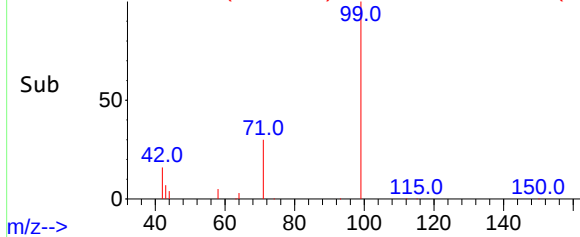
Abundance Scan 538 (6.966 min): BN038023.D\data.ms



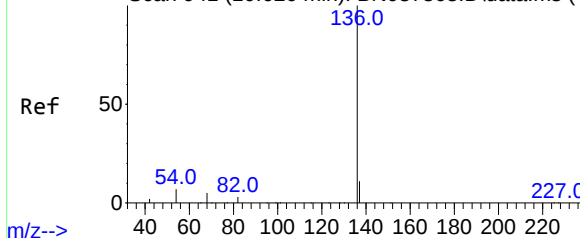
Abundance



Abundance Scan 538 (6.966 min): BN038023.D\data.ms (-51



Abundance Scan 941 (10.626 min): BN037863.D\data.ms (-9



#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.605 min Scan# 939

Delta R.T. -0.021 min

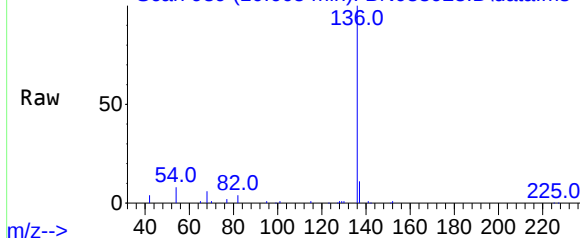
Lab File: BN038023.D

Acq: 07 Oct 2025 00:08

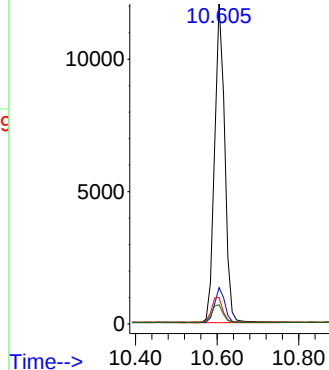
Tgt Ion: 136 Resp: 20745

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 136 | 100   |       |       |
| 137 | 11.4  | 9.0   | 13.4  |
| 54  | 8.2   | 5.8   | 8.8   |
| 68  | 6.0   | 4.3   | 6.5   |

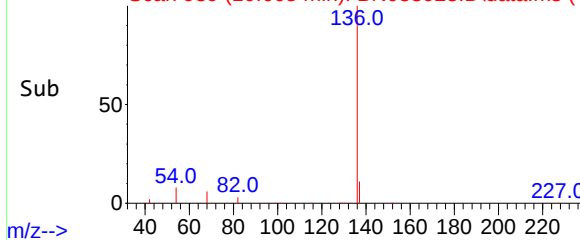
Abundance Scan 939 (10.605 min): BN038023.D\data.ms



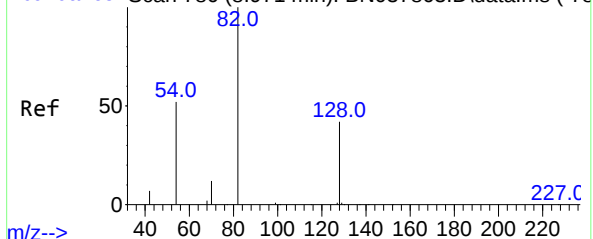
Abundance



Abundance Scan 939 (10.605 min): BN038023.D\data.ms (-9



Abundance Scan 786 (8.971 min): BN037863.D\data.ms (-76



#8

Nitrobenzene-d5

Concen: 0.359 ng

RT: 8.950 min Scan# 71

Delta R.T. -0.021 min

Lab File: BN038023.D

Acq: 07 Oct 2025 00:08

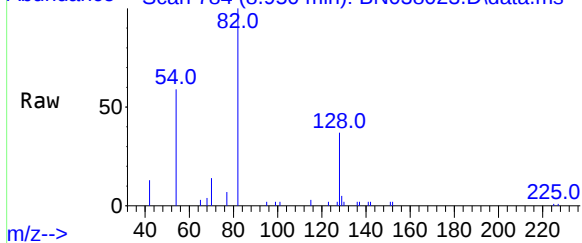
Instrument :

BNA\_N

ClientSampleId :

PB169904BL

Abundance Scan 784 (8.950 min): BN038023.D\data.ms



Tgt Ion: 82 Resp: 5676

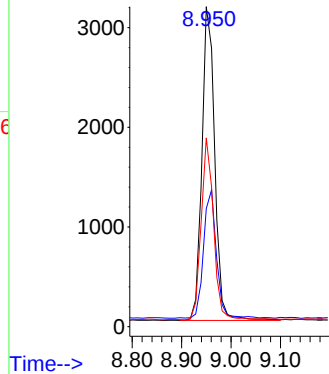
Ion Ratio Lower Upper

82 100

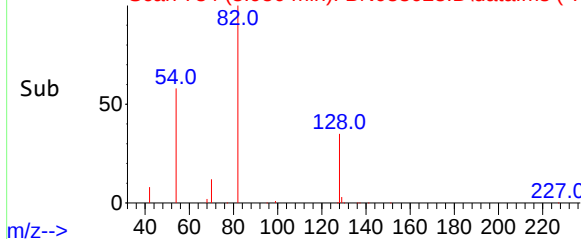
128 36.9 34.8 52.2

54 59.0 42.2 63.2

Abundance

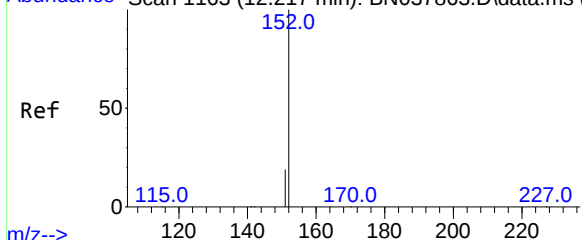


Abundance Scan 784 (8.950 min): BN038023.D\data.ms (-76



Time--&gt;

Abundance Scan 1163 (12.217 min): BN037863.D\data.ms (-



#11

2-Methylnaphthalene-d10

Concen: 0.327 ng

RT: 12.202 min Scan# 1160

Delta R.T. -0.015 min

Lab File: BN038023.D

Acq: 07 Oct 2025 00:08

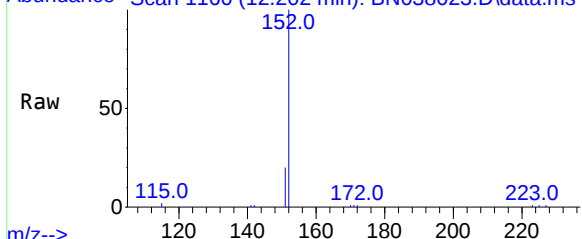
Tgt Ion: 152 Resp: 9416

Ion Ratio Lower Upper

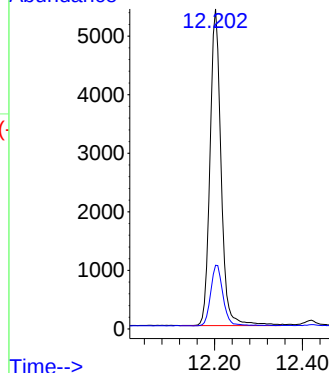
152 100

151 21.4 17.4 26.2

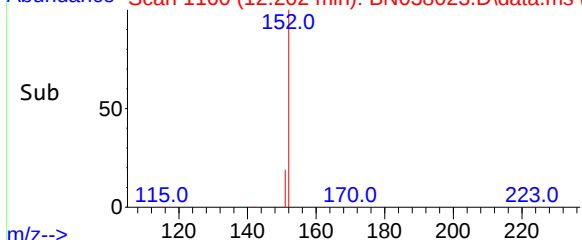
Abundance Scan 1160 (12.202 min): BN038023.D\data.ms



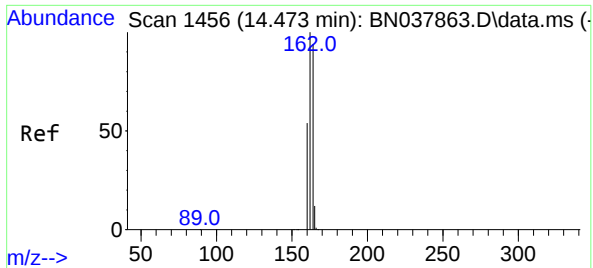
Abundance



Abundance Scan 1160 (12.202 min): BN038023.D\data.ms (-



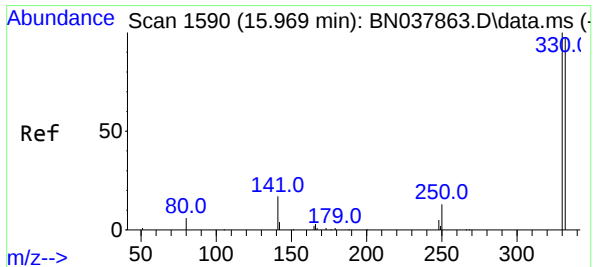
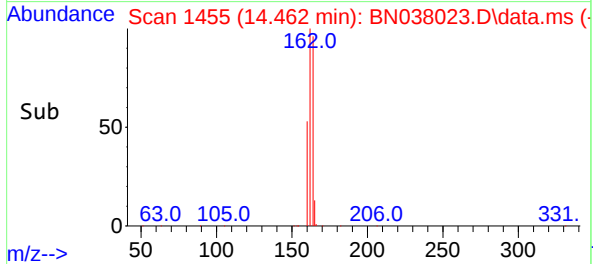
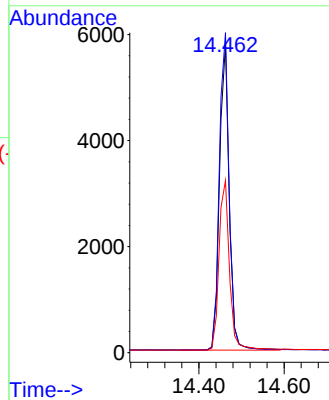
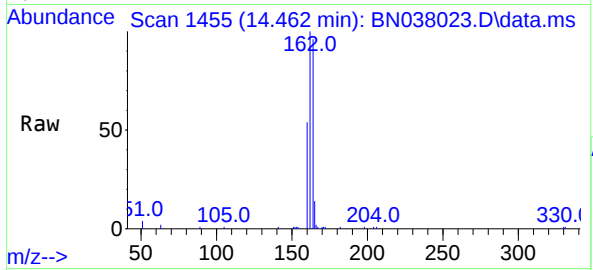
Time--&gt;



#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.462 min Scan# 14  
Delta R.T. -0.011 min  
Lab File: BN038023.D  
Acq: 07 Oct 2025 00:08

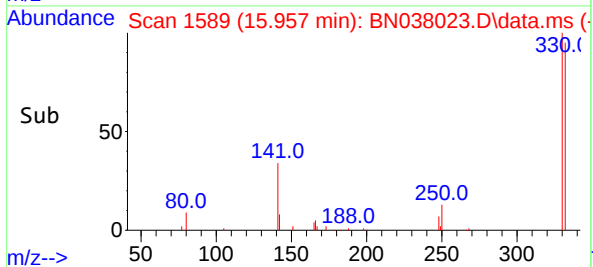
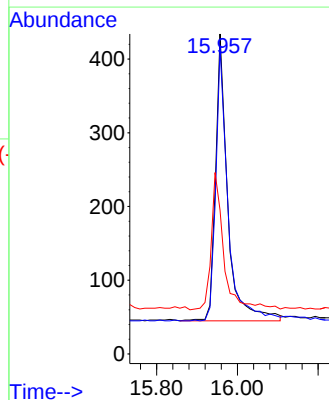
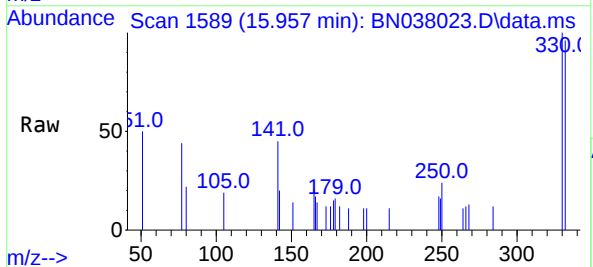
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BL

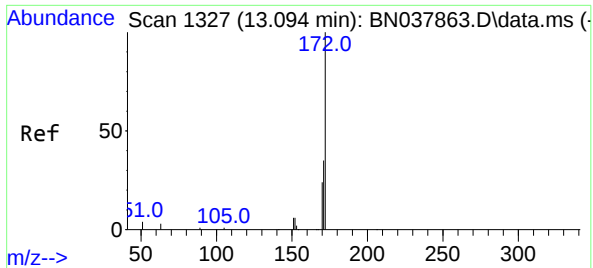
Tgt Ion:164 Resp: 9107  
Ion Ratio Lower Upper  
164 100  
162 103.7 84.8 127.2  
160 55.8 46.1 69.1



#14  
2,4,6-Tribromophenol  
Concen: 0.236 ng  
RT: 15.957 min Scan# 1589  
Delta R.T. -0.012 min  
Lab File: BN038023.D  
Acq: 07 Oct 2025 00:08

Tgt Ion:330 Resp: 816  
Ion Ratio Lower Upper  
330 100  
332 95.6 77.2 115.8  
141 49.5 37.2 55.8

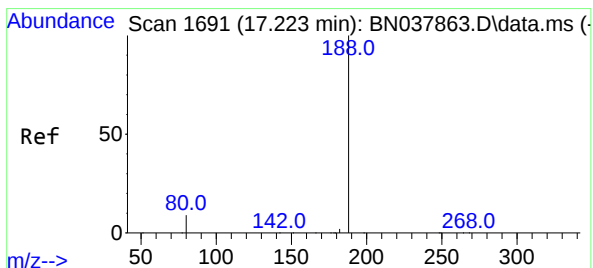
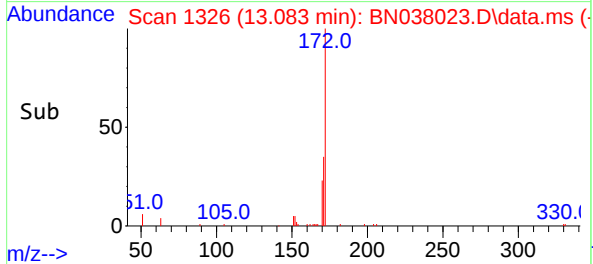
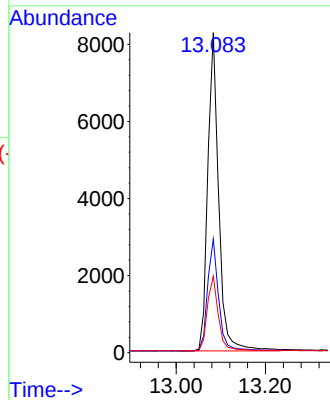
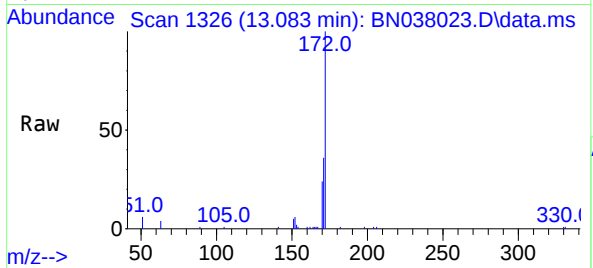




#15  
2-Fluorobiphenyl  
Concen: 0.375 ng  
RT: 13.083 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: BN038023.D  
Acq: 07 Oct 2025 00:08

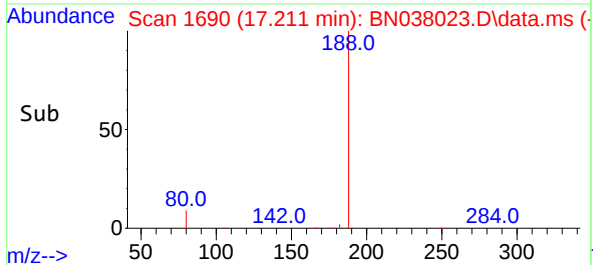
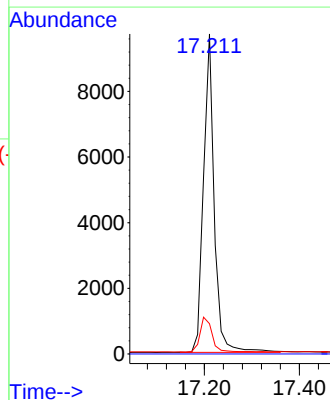
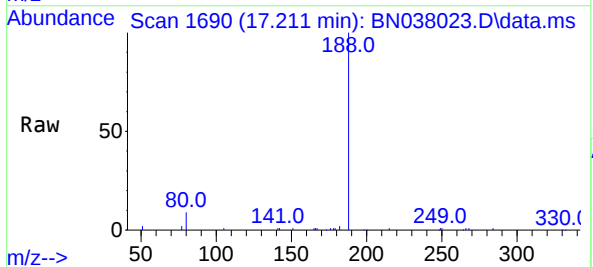
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BL

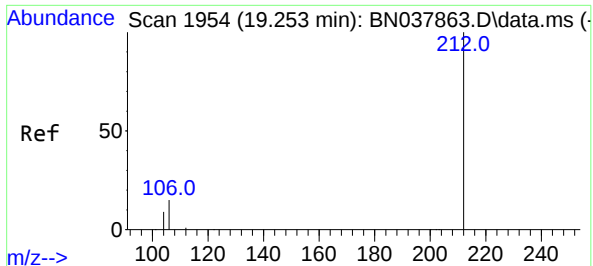
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 13974 |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 35.5  | 28.6  | 43.0  |
| 170      | 23.9  | 19.7  | 29.5  |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.211 min Scan# 1690  
Delta R.T. -0.012 min  
Lab File: BN038023.D  
Acq: 07 Oct 2025 00:08

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 188   | Resp: | 15264 |
| Ion      | Ratio | Lower | Upper |
| 188      | 100   |       |       |
| 94       | 0.0   | 0.0   | 0.0   |
| 80       | 9.5   | 7.6   | 11.4  |

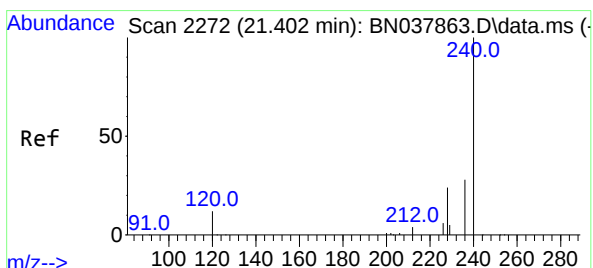
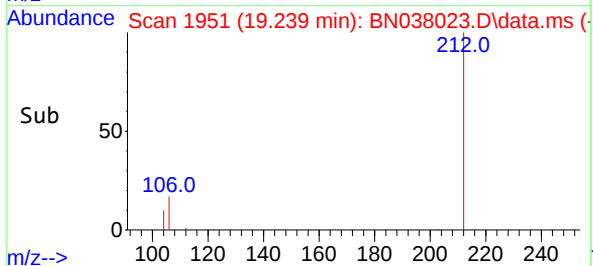
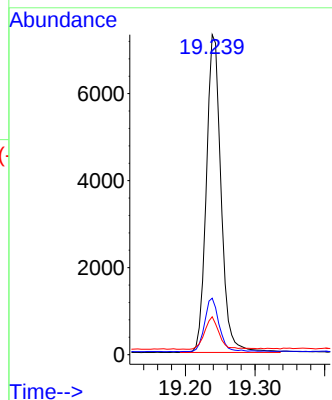
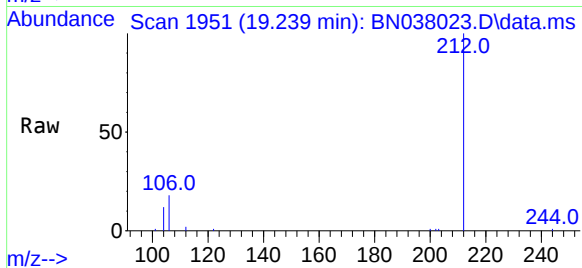




#27  
Fluoranthene-d10  
Concen: 0.279 ng  
RT: 19.239 min Scan# 1951  
Delta R.T. -0.014 min  
Lab File: BN038023.D  
Acq: 07 Oct 2025 00:08

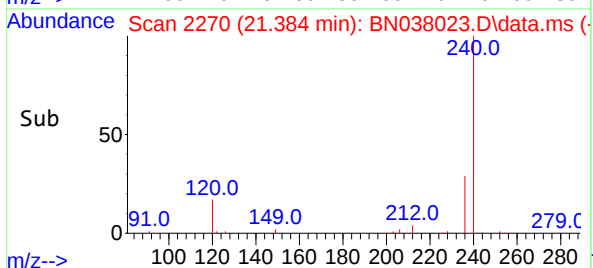
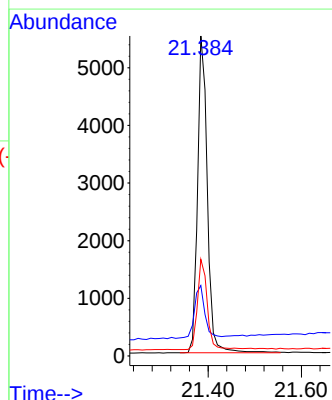
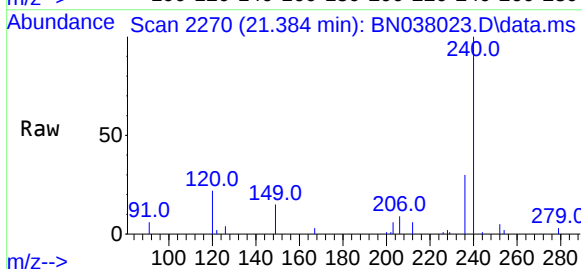
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BL

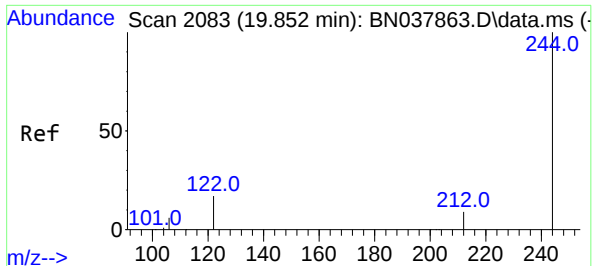
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 16.7  | 12.6  | 19.0  |
| 104     | 10.2  | 7.4   | 11.0  |



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.384 min Scan# 2270  
Delta R.T. -0.018 min  
Lab File: BN038023.D  
Acq: 07 Oct 2025 00:08

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 22.0  | 11.4  | 17.2  |
| 236     | 30.2  | 23.0  | 34.6  |

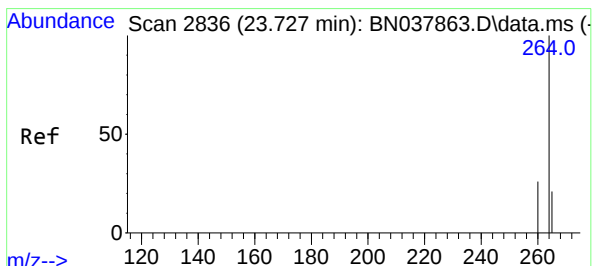
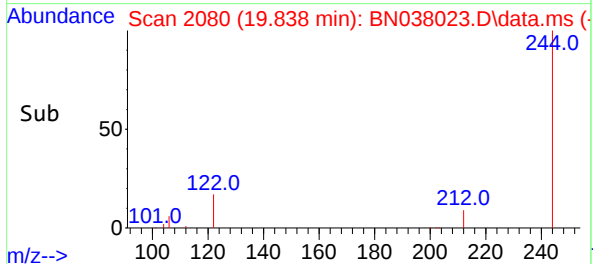
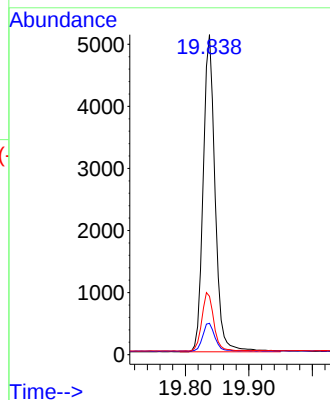
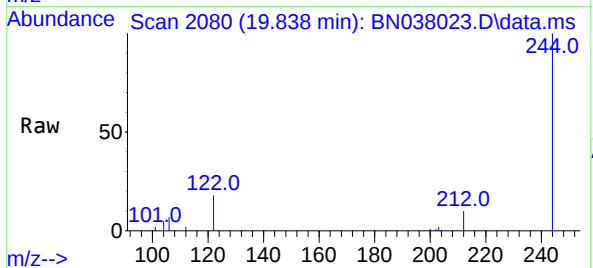




#31  
Terphenyl-d14  
Concen: 0.417 ng  
RT: 19.838 min Scan# 2080  
Delta R.T. -0.014 min  
Lab File: BN038023.D  
Acq: 07 Oct 2025 00:08

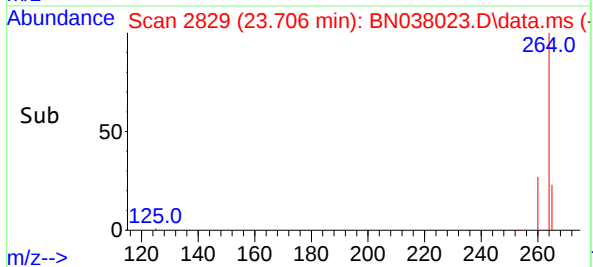
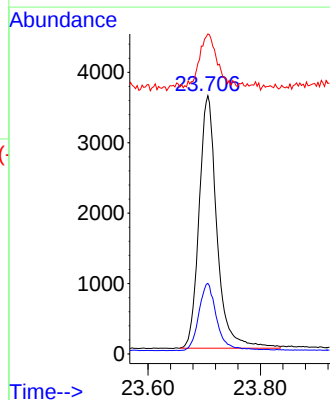
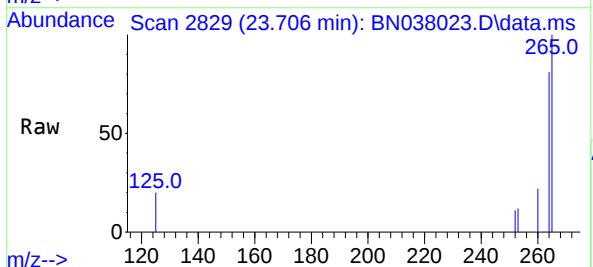
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BL

Tgt Ion:244 Resp: 6667  
Ion Ratio Lower Upper  
244 100  
212 9.8 7.6 11.4  
122 18.2 13.9 20.9



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.706 min Scan# 2829  
Delta R.T. -0.021 min  
Lab File: BN038023.D  
Acq: 07 Oct 2025 00:08

Tgt Ion:264 Resp: 7902  
Ion Ratio Lower Upper  
264 100  
260 27.3 21.5 32.3  
265 123.9 53.8 80.6#



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  |                |
| Client Sample ID:  | PB169904BS                    | SDG No.:        | Q3213          |
| Lab Sample ID:     | PB169904BS                    | 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 |
| BN038037.D        | 1         | 09/26/25 13:15 | 10/07/25 08:35 | PB169904      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.32  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.35  |           | 30 - 150 |      | 87%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.28  |           | 30 - 150 |      | 69%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.36  |           | 55 - 111 |      | 91%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.37  |           | 53 - 106 |      | 93%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.44  |           | 58 - 132 |      | 111%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 9120  | 7.804     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 24900 | 10.605    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 11800 | 14.452    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 20400 | 17.211    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 10200 | 21.393    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 9230  | 23.712    |          |      |            |          |

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\BN100625\  
 Data File : BN038037.D  
 Acq On : 07 Oct 2025 08:35  
 Operator : RC/JU  
 Sample : PB169904BS  
 Misc :  
 ALS Vial : 37 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB169904BS

Quant Time: Oct 07 10:38:58 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 11:00:01 2025  
 Response via : Initial Calibration

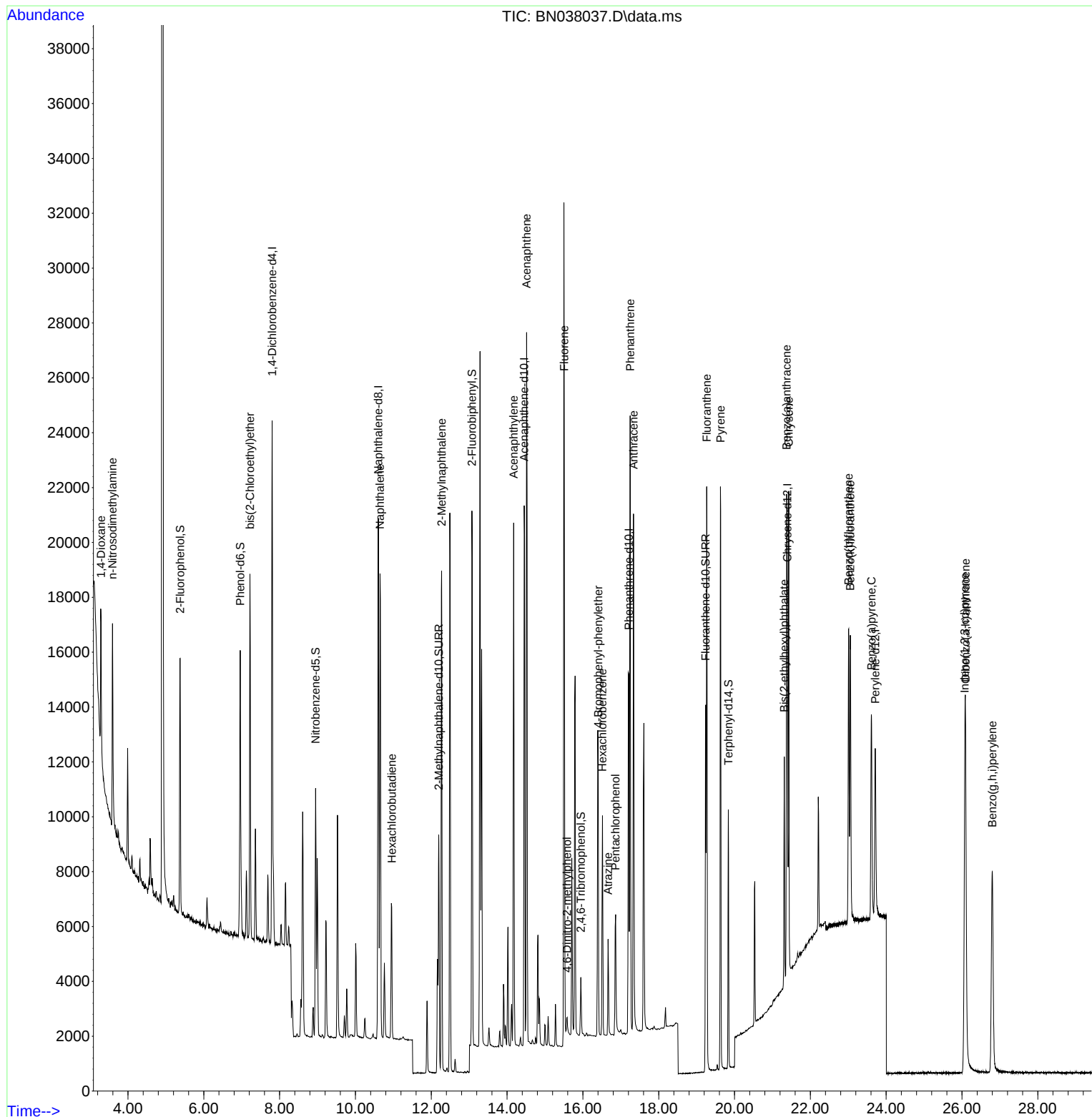
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.804  | 152  | 9121     | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8             | 10.605 | 136  | 24908    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.452 | 164  | 11773    | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 17.211 | 188  | 20442    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.393 | 240  | 10195    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.712 | 264  | 9225     | 0.400 | ng    | #-0.01   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.377  | 112  | 7594     | 0.365 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.959  | 99   | 9353     | 0.342 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.950  | 82   | 6889     | 0.363 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 12.197 | 152  | 12058    | 0.349 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.945 | 330  | 1203     | 0.269 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 13.073 | 172  | 17972    | 0.373 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 19.239 | 212  | 14208    | 0.276 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.838 | 244  | 9014     | 0.444 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.290  | 88   | 2966     | 0.320 | ng    | # 58     |
| 3) n-Nitrosodimethylamine     | 3.593  | 42   | 4304     | 0.349 | ng    | # 92     |
| 6) bis(2-Chloroethyl)ether    | 7.219  | 93   | 9006     | 0.355 | ng    | 97       |
| 9) Naphthalene                | 10.648 | 128  | 23478    | 0.342 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.957 | 225  | 4151     | 0.355 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.273 | 142  | 13210    | 0.295 | ng    | 98       |
| 16) Acenaphthylene            | 14.174 | 152  | 20085    | 0.376 | ng    | 99       |
| 17) Acenaphthene              | 14.516 | 154  | 12391    | 0.325 | ng    | 97       |
| 18) Fluorene                  | 15.510 | 166  | 14020    | 0.304 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.585 | 198  | 619      | 0.306 | ng    | # 69     |
| 21) 4-Bromophenyl-phenylether | 16.404 | 248  | 4706     | 0.353 | ng    | # 87     |
| 22) Hexachlorobenzene         | 16.516 | 284  | 5976     | 0.370 | ng    | 99       |
| 23) Atrazine                  | 16.665 | 200  | 2768     | 0.273 | ng    | # 90     |
| 24) Pentachlorophenol         | 16.863 | 266  | 2664     | 0.481 | ng    | 96       |
| 25) Phenanthrene              | 17.248 | 178  | 23160    | 0.344 | ng    | 100      |
| 26) Anthracene                | 17.335 | 178  | 20037    | 0.343 | ng    | 100      |
| 28) Fluoranthene              | 19.267 | 202  | 19398    | 0.262 | ng    | 99       |
| 30) Pyrene                    | 19.629 | 202  | 18822    | 0.468 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.375 | 228  | 13066    | 0.367 | ng    | 100      |
| 33) Chrysene                  | 21.429 | 228  | 14555    | 0.378 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.313 | 149  | 4398     | 0.312 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 26.075 | 276  | 18823    | 0.447 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 23.011 | 252  | 14479    | 0.364 | ng    | # 91     |
| 38) Benzo(k)fluoranthene      | 23.054 | 252  | 13922    | 0.348 | ng    | # 91     |
| 39) Benzo(a)pyrene            | 23.610 | 252  | 11961    | 0.380 | ng    | # 89     |
| 40) Dibenzo(a,h)anthracene    | 26.095 | 278  | 14671    | 0.446 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 26.800 | 276  | 16336    | 0.472 | ng    | 98       |

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

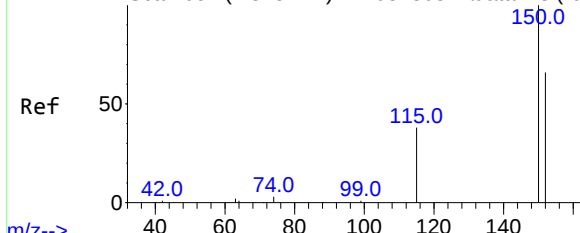
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038037.D  
Acq On : 07 Oct 2025 08:35  
Operator : RC/JU  
Sample : PB169904BS  
Misc :  
ALS Vial : 37 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

Quant Time: Oct 07 10:38:58 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA\_N

ClientSampleId :

PB169904BS

Tgt Ion:152 Resp: 9121

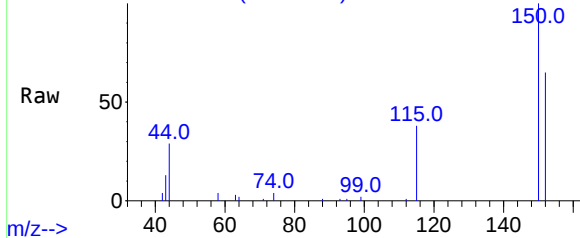
Ion Ratio Lower Upper

152 100

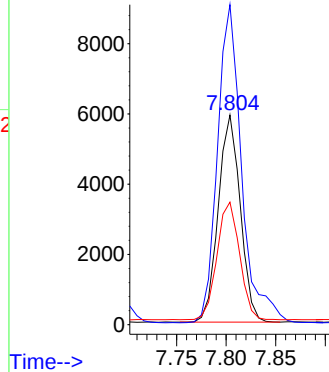
150 152.7 121.0 181.4

115 58.5 47.4 71.0

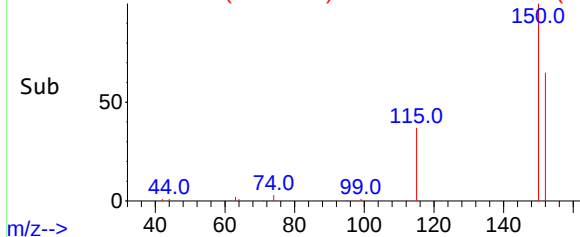
Abundance Scan 654 (7.804 min): BN038037.D\data.ms



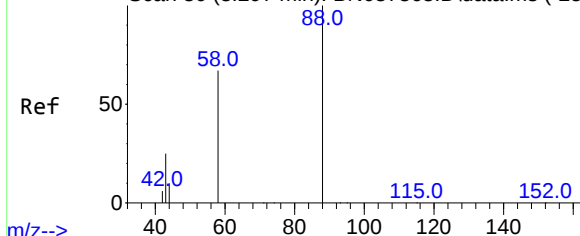
Abundance



Abundance Scan 654 (7.804 min): BN038037.D\data.ms (-62



Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



#2

1,4-Dioxane

Concen: 0.320 ng

RT: 3.290 min Scan# 29

Delta R.T. -0.007 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Tgt Ion: 88 Resp: 2966

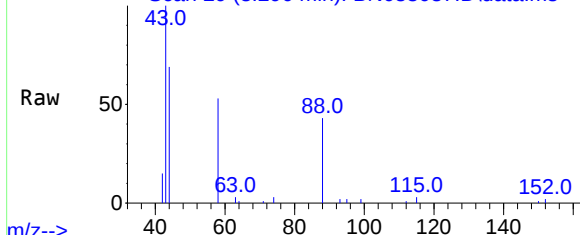
Ion Ratio Lower Upper

88 100

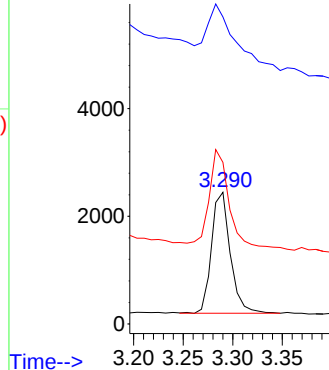
43 80.0 26.6 39.8#

58 93.7 58.9 88.3#

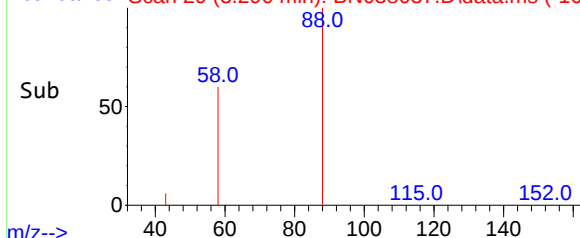
Abundance Scan 29 (3.290 min): BN038037.D\data.ms



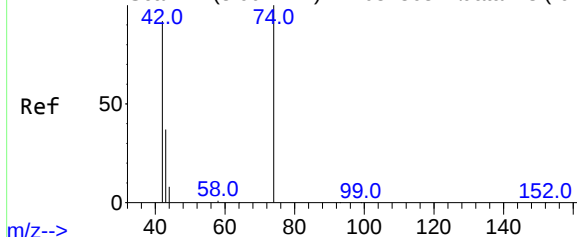
Abundance



Abundance Scan 29 (3.290 min): BN038037.D\data.ms (-16)



Abundance Scan 72 (3.601 min): BN037863.D\data.ms (-67)



#3

n-Nitrosodimethylamine

Concen: 0.349 ng

RT: 3.593 min Scan# 71

Delta R.T. -0.007 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA\_N

ClientSampleId :

PB169904BS

Tgt Ion: 42 Resp: 4304

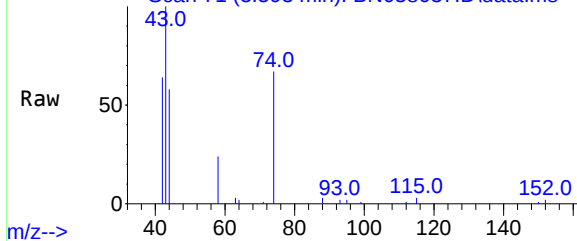
Ion Ratio Lower Upper

42 100

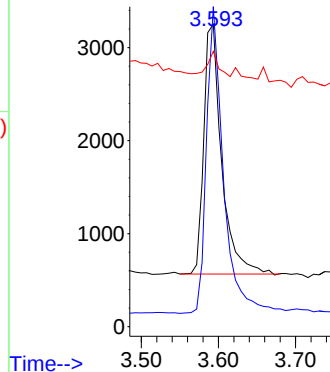
74 117.2 93.4 140.0

44 6.2 22.2 33.4#

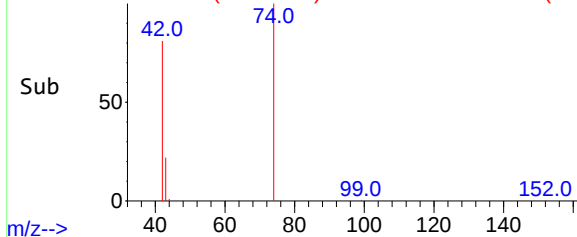
Abundance Scan 71 (3.593 min): BN038037.D\data.ms



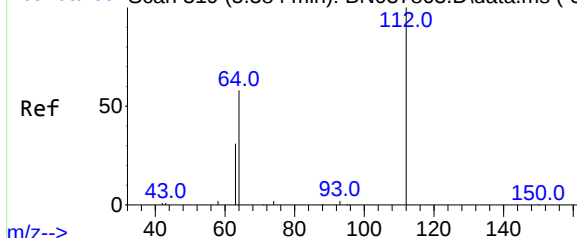
Abundance



Abundance Scan 71 (3.593 min): BN038037.D\data.ms (-51)



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.365 ng

RT: 5.377 min Scan# 318

Delta R.T. -0.007 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Tgt Ion: 112 Resp: 7594

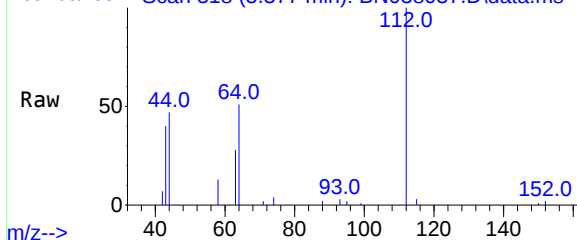
Ion Ratio Lower Upper

112 100

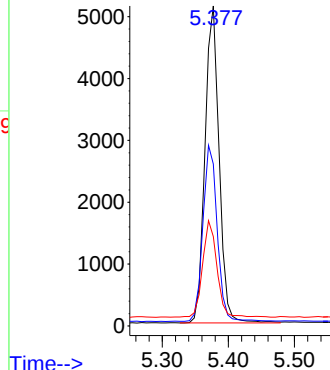
64 56.2 44.6 66.8

63 30.6 24.9 37.3

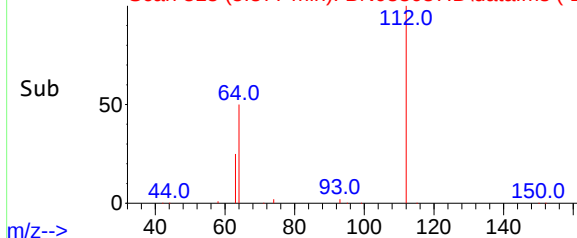
Abundance Scan 318 (5.377 min): BN038037.D\data.ms



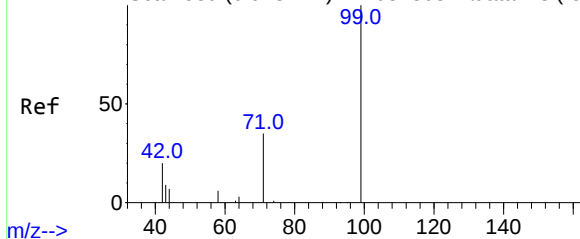
Abundance



Abundance Scan 318 (5.377 min): BN038037.D\data.ms (-29)



Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53)



#5

Phenol-d6

Concen: 0.342 ng

RT: 6.959 min Scan# 51

Delta R.T. -0.014 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA\_N

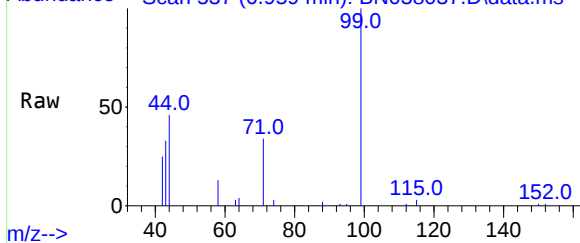
ClientSampleId :

PB169904BS

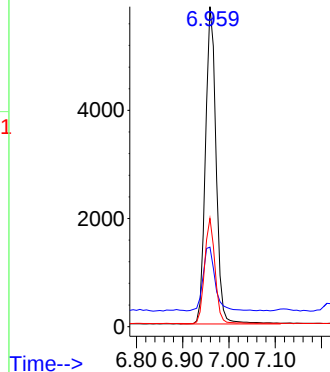
Tgt Ion: 99 Resp: 9353

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 22.8  | 17.2  | 25.8  |
| 71  | 32.5  | 27.3  | 40.9  |

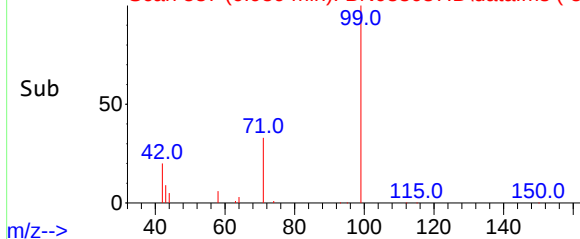
Abundance Scan 537 (6.959 min): BN038037.D\data.ms



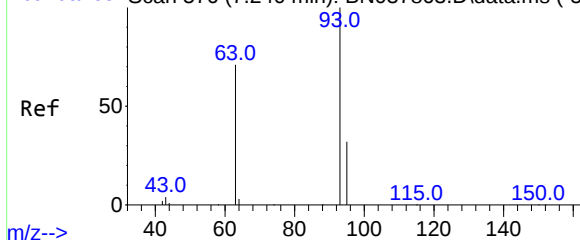
Abundance



Abundance Scan 537 (6.959 min): BN038037.D\data.ms (-51)



Abundance Scan 576 (7.240 min): BN037863.D\data.ms (-57)



#6

bis(2-Chloroethyl)ether

Concen: 0.355 ng

RT: 7.219 min Scan# 573

Delta R.T. -0.022 min

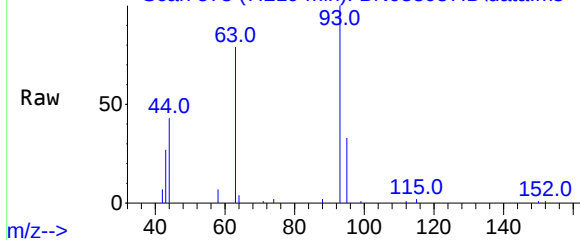
Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

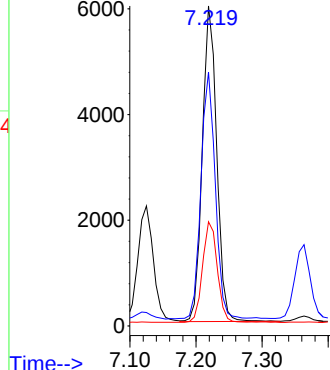
Tgt Ion: 93 Resp: 9006

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 93  | 100   |       |       |
| 63  | 77.9  | 60.1  | 90.1  |
| 95  | 32.6  | 25.4  | 38.2  |

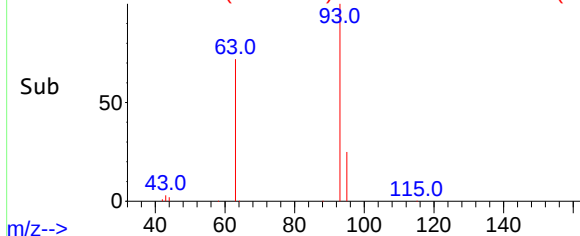
Abundance Scan 573 (7.219 min): BN038037.D\data.ms

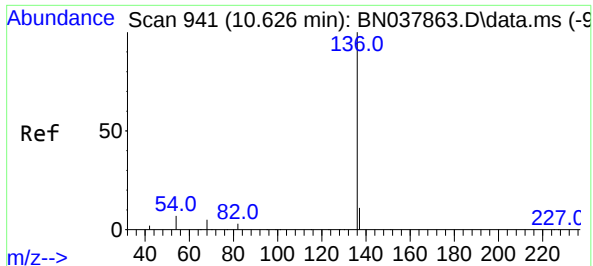


Abundance



Abundance Scan 573 (7.219 min): BN038037.D\data.ms (-54)

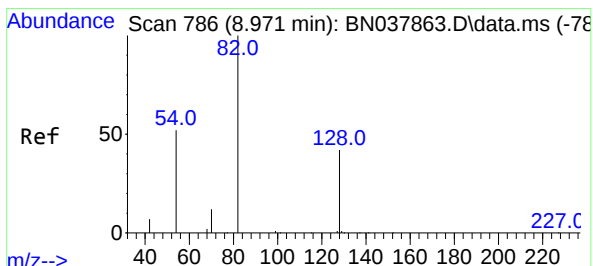
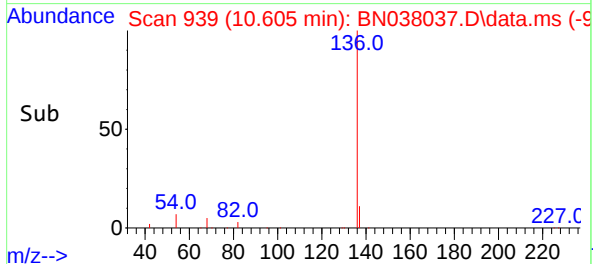
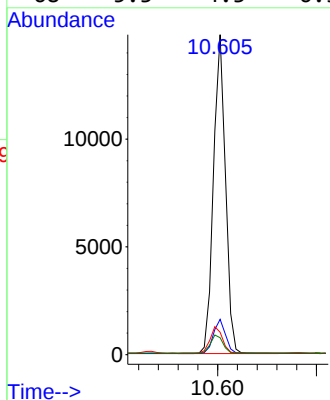
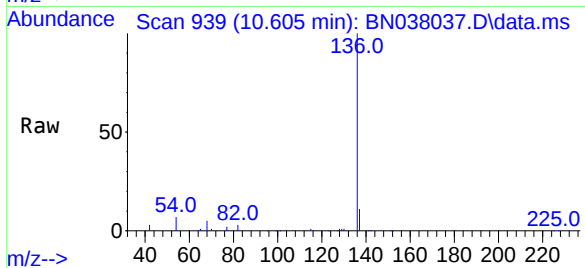




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.605 min Scan# 91  
Delta R.T. -0.021 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

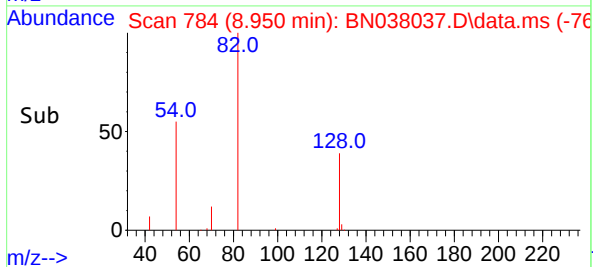
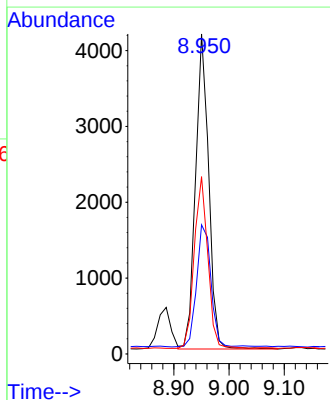
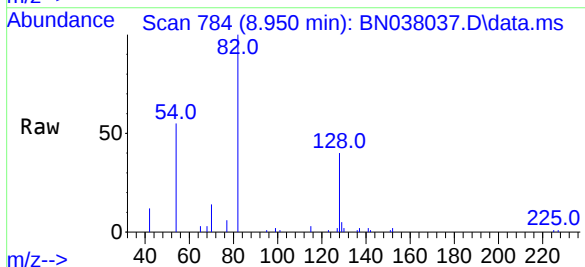
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

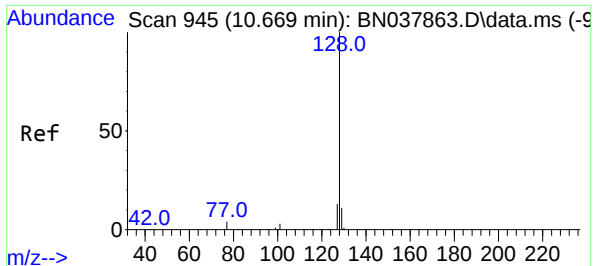
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 24908 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.1  | 9.0   | 13.4  |
| 54       | 7.0   | 5.8   | 8.8   |
| 68       | 5.3   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.363 ng  
RT: 8.950 min Scan# 784  
Delta R.T. -0.021 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 6889  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.3  | 34.8  | 52.2  |
| 54       | 55.4  | 42.2  | 63.2  |

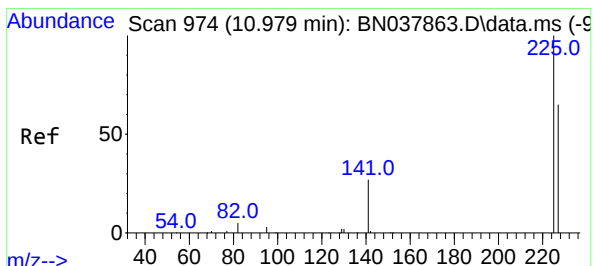
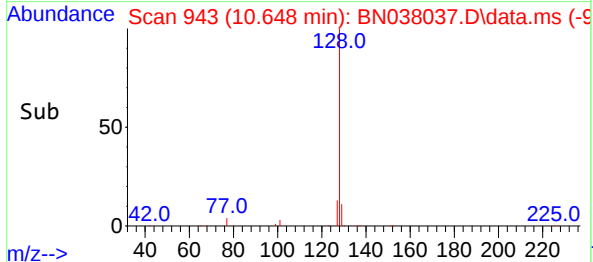
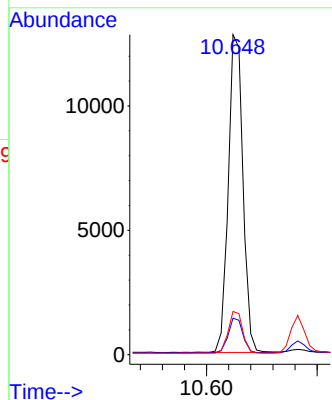
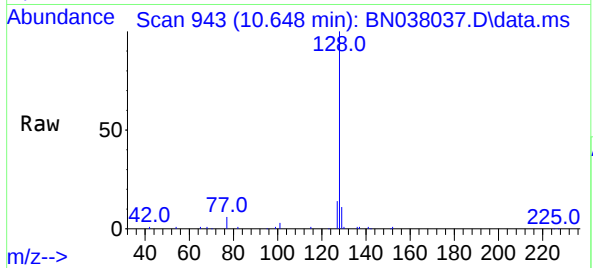




#9  
Naphthalene  
Concen: 0.342 ng  
RT: 10.648 min Scan# 941  
Delta R.T. -0.021 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

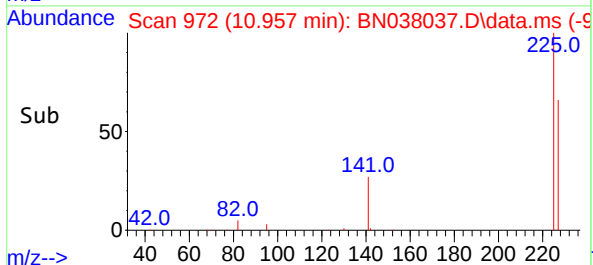
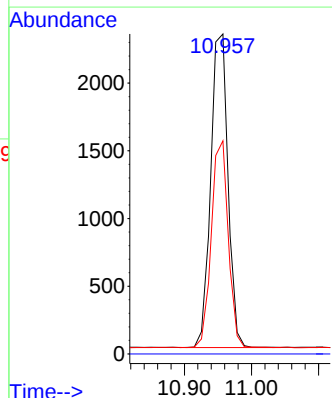
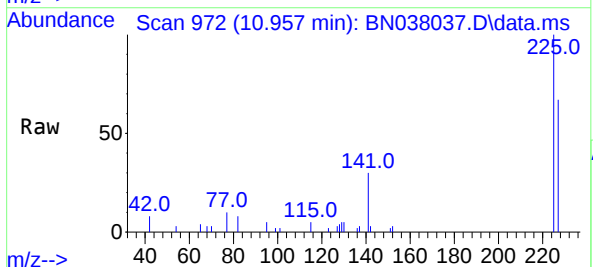
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

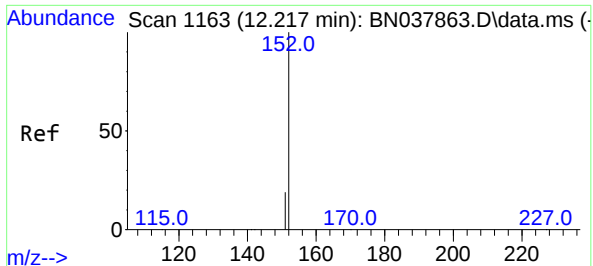
Tgt Ion:128 Resp: 23478  
Ion Ratio Lower Upper  
128 100  
129 11.4 9.2 13.8  
127 13.5 11.0 16.6



#10  
Hexachlorobutadiene  
Concen: 0.355 ng  
RT: 10.957 min Scan# 972  
Delta R.T. -0.021 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

Tgt Ion:225 Resp: 4151  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 64.4 51.4 77.2

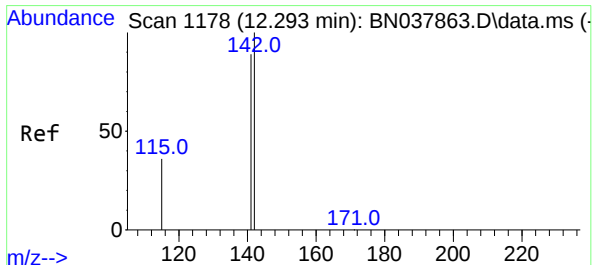
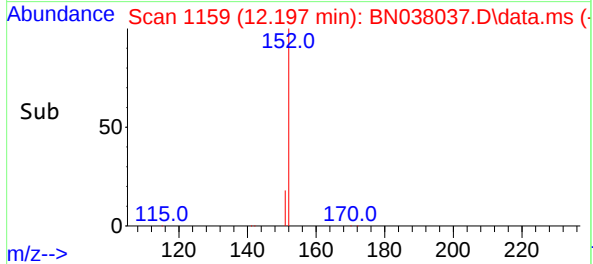
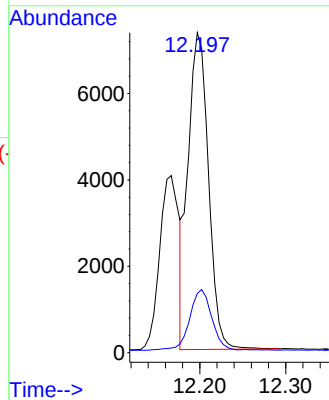
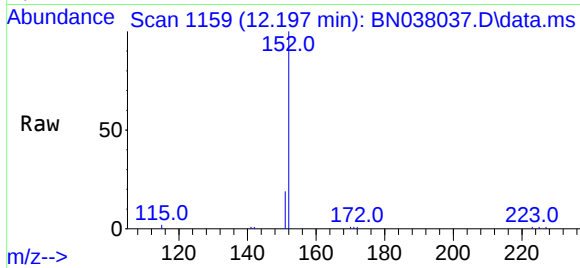




#11  
2-Methylnaphthalene-d10  
Concen: 0.349 ng  
RT: 12.197 min Scan# 1163  
Delta R.T. -0.020 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

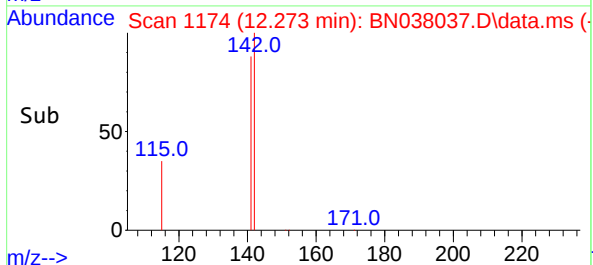
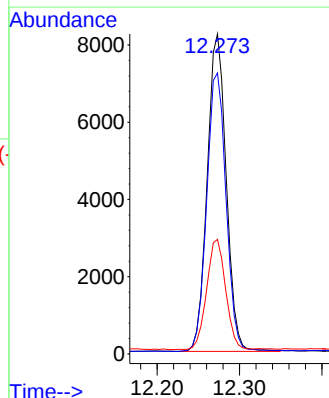
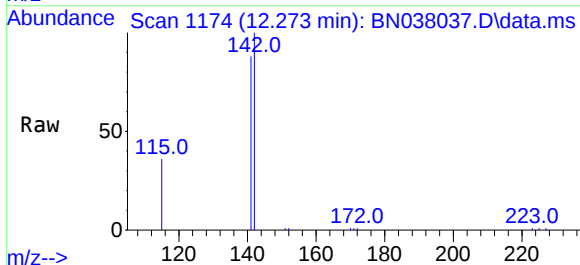
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

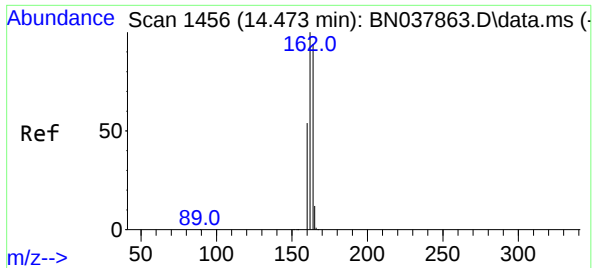
Tgt Ion:152 Resp: 12058  
Ion Ratio Lower Upper  
152 100  
151 20.9 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 0.295 ng  
RT: 12.273 min Scan# 1174  
Delta R.T. -0.020 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

Tgt Ion:142 Resp: 13210  
Ion Ratio Lower Upper  
142 100  
141 87.8 71.2 106.8  
115 35.8 29.7 44.5

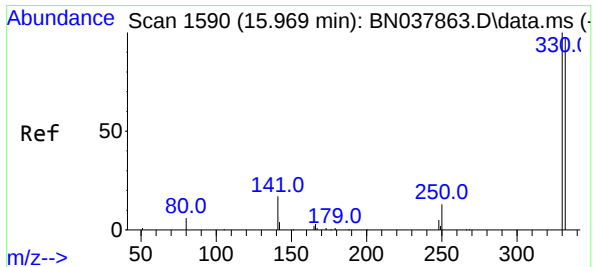
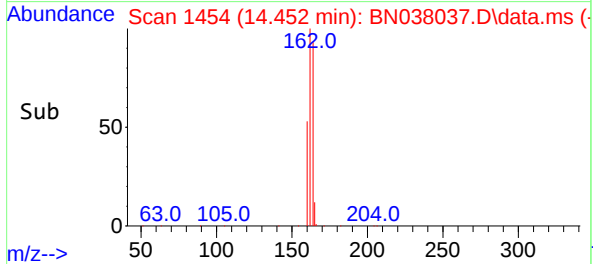
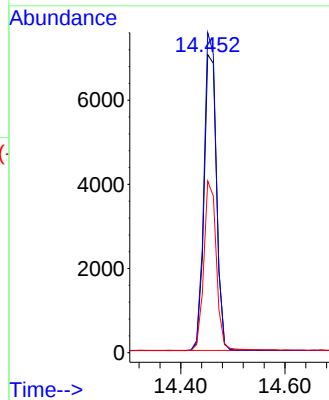
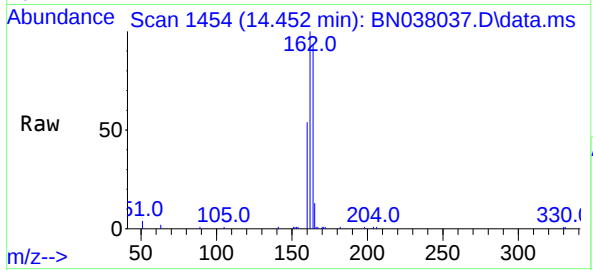




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.452 min Scan# 14  
Delta R.T. -0.021 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

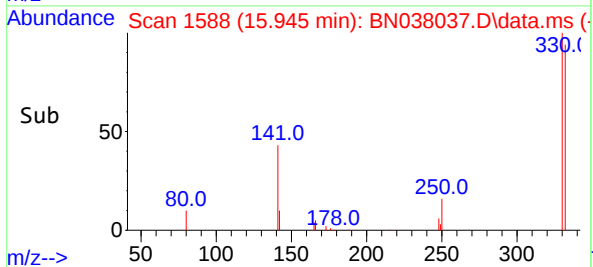
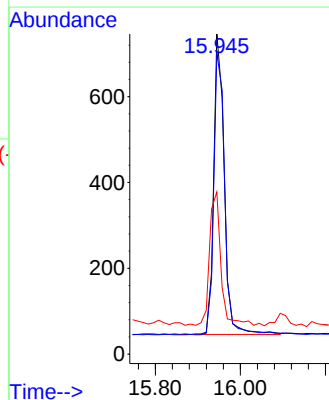
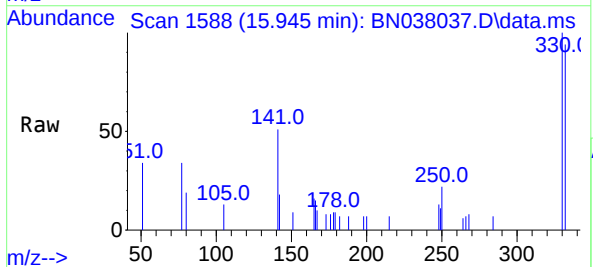
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

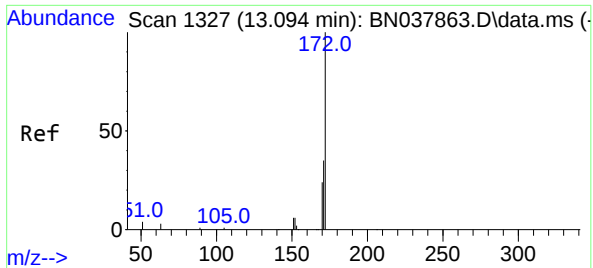
Tgt Ion:164 Resp: 11773  
Ion Ratio Lower Upper  
164 100  
162 107.3 84.8 127.2  
160 57.6 46.1 69.1



#14  
2,4,6-Tribromophenol  
Concen: 0.269 ng  
RT: 15.945 min Scan# 1588  
Delta R.T. -0.024 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

Tgt Ion:330 Resp: 1203  
Ion Ratio Lower Upper  
330 100  
332 97.6 77.2 115.8  
141 48.6 37.2 55.8

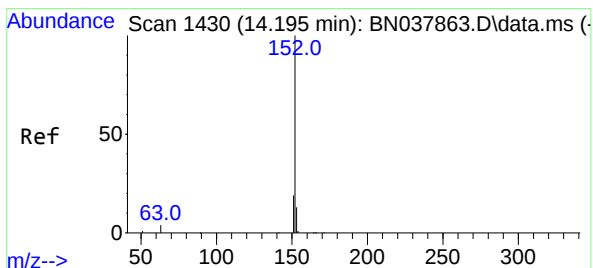
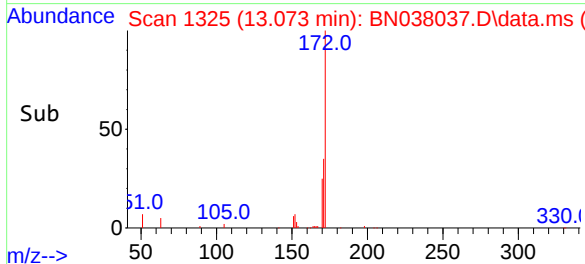
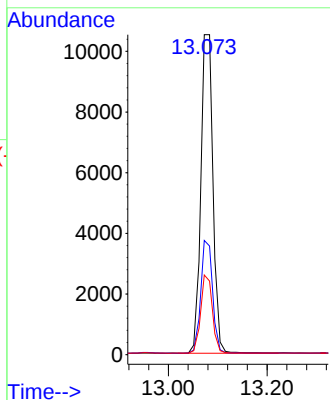
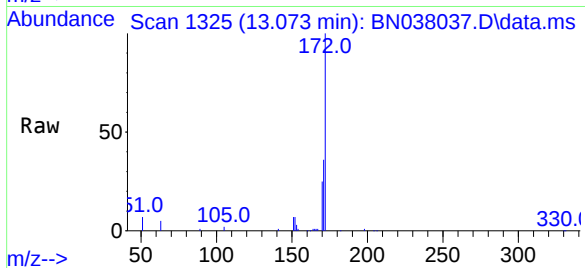




#15  
2-Fluorobiphenyl  
Concen: 0.373 ng  
RT: 13.073 min Scan# 11  
Delta R.T. -0.021 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

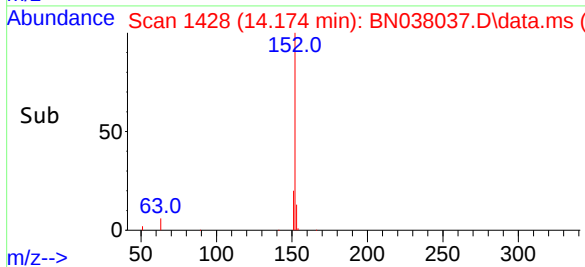
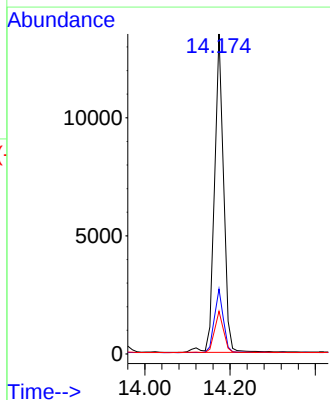
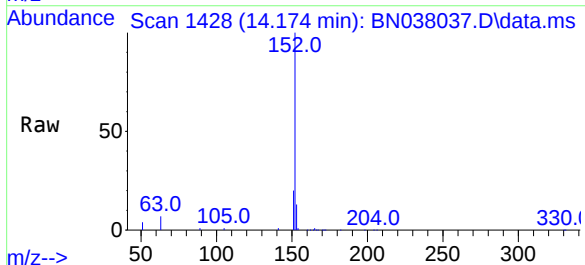
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

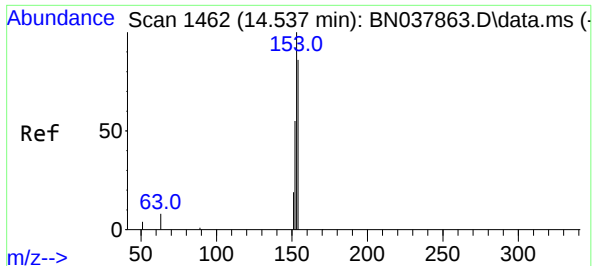
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 172     | 100   |       |       |
| 171     | 35.7  | 28.6  | 43.0  |
| 170     | 24.9  | 19.7  | 29.5  |



#16  
Acenaphthylene  
Concen: 0.376 ng  
RT: 14.174 min Scan# 1428  
Delta R.T. -0.021 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 152     | 100   |       |       |
| 151     | 19.7  | 15.8  | 23.8  |
| 153     | 12.6  | 10.5  | 15.7  |

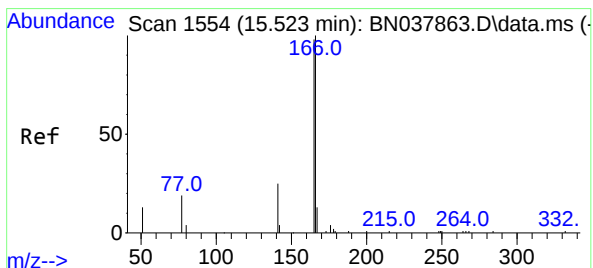
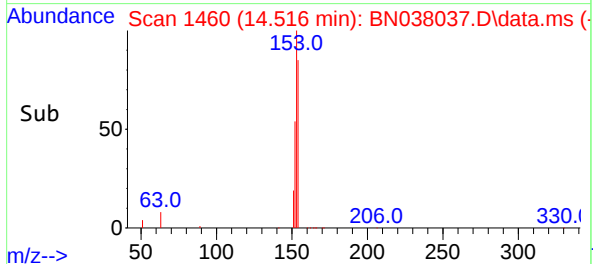
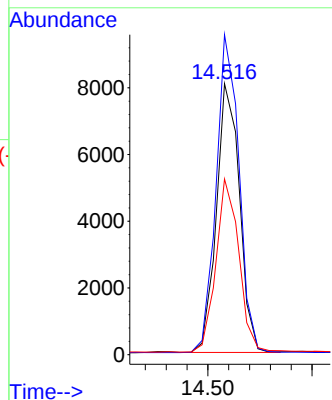
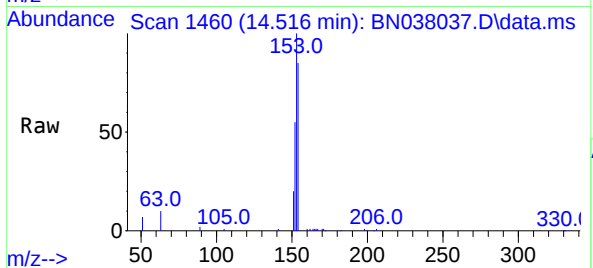




#17  
Acenaphthene  
Concen: 0.325 ng  
RT: 14.516 min Scan# 1460  
Delta R.T. -0.021 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

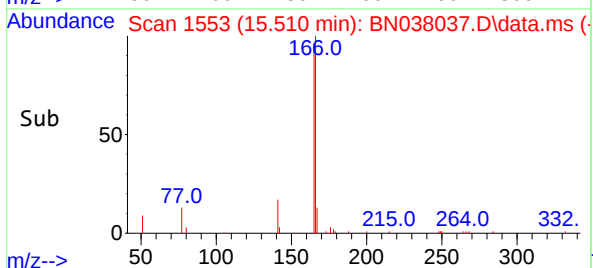
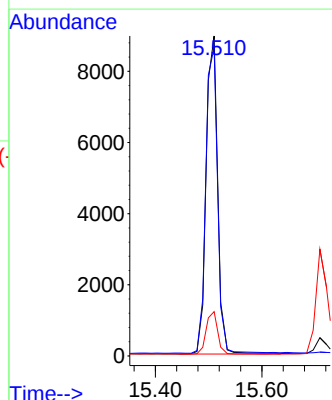
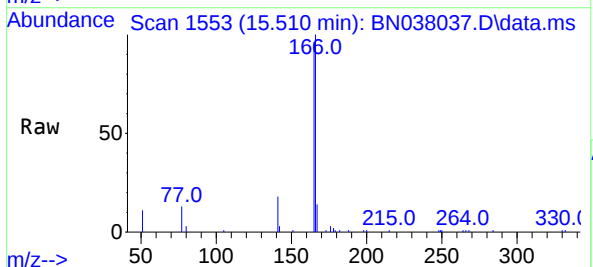
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

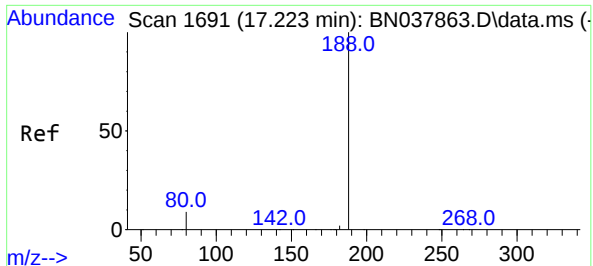
Tgt Ion:154 Resp: 12391  
Ion Ratio Lower Upper  
154 100  
153 117.5 90.5 135.7  
152 64.6 51.8 77.8



#18  
Fluorene  
Concen: 0.304 ng  
RT: 15.510 min Scan# 1553  
Delta R.T. -0.012 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

Tgt Ion:166 Resp: 14020  
Ion Ratio Lower Upper  
166 100  
165 99.6 79.0 118.4  
167 13.4 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.211 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA\_N

ClientSampleId :

PB169904BS

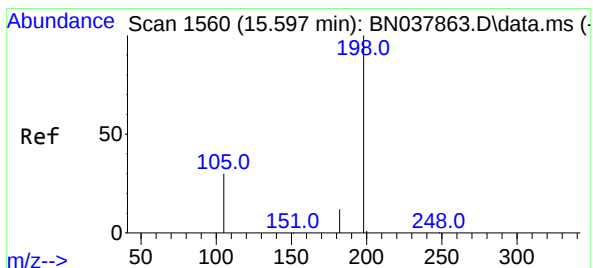
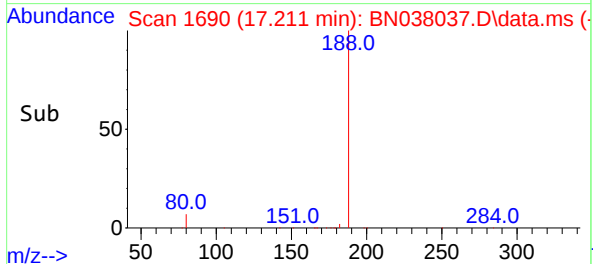
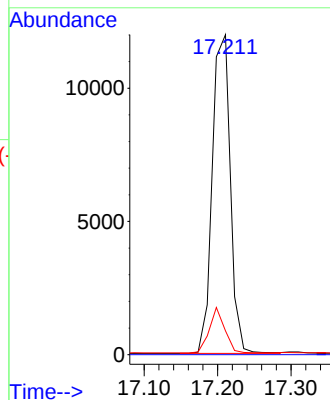
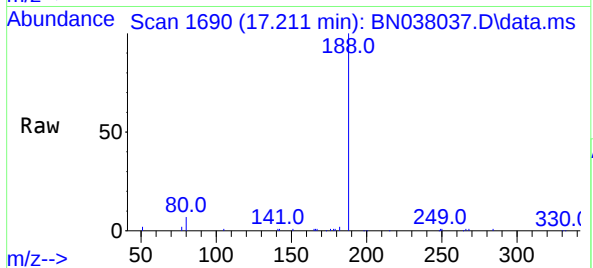
Tgt Ion:188 Resp: 20442

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 7.5 7.6 11.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.306 ng

RT: 15.585 min Scan# 1559

Delta R.T. -0.012 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

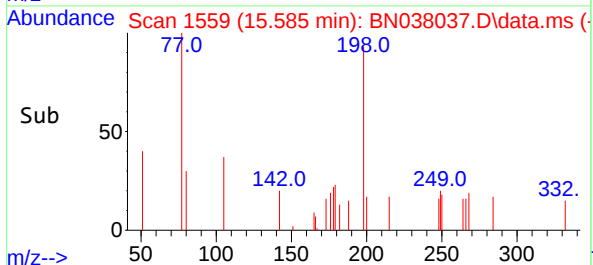
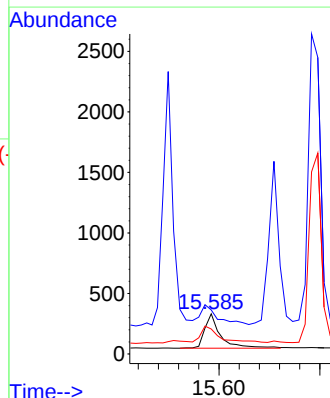
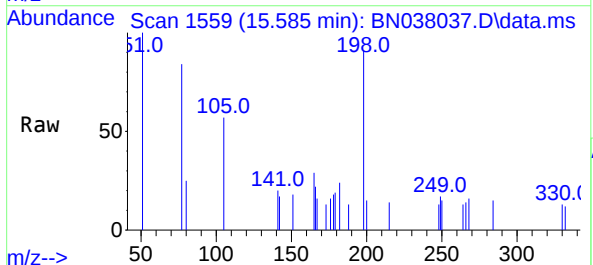
Tgt Ion:198 Resp: 619

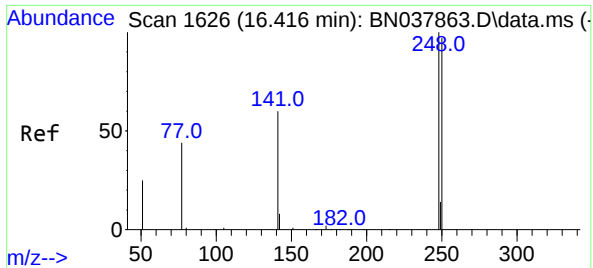
Ion Ratio Lower Upper

198 100

51 109.6 59.1 88.7#

105 62.0 41.3 61.9#

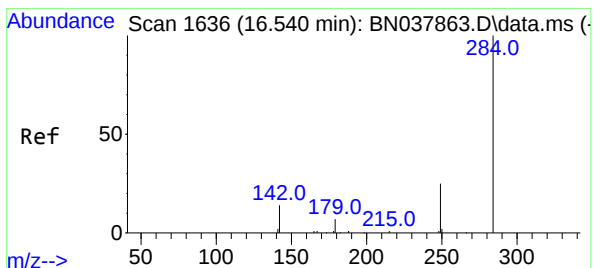
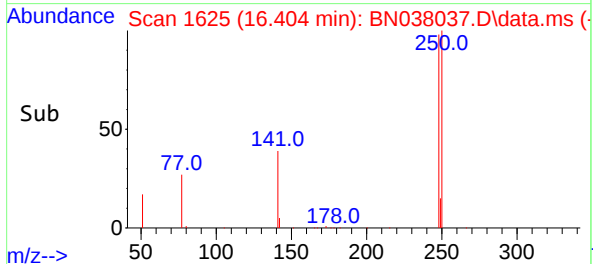
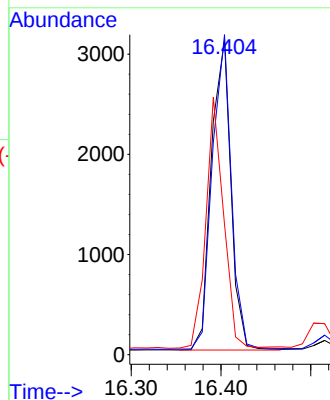
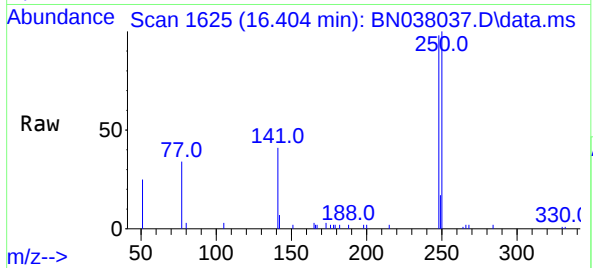




#21  
4-Bromophenyl-phenylether  
Concen: 0.353 ng  
RT: 16.404 min Scan# 1625  
Delta R.T. -0.012 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

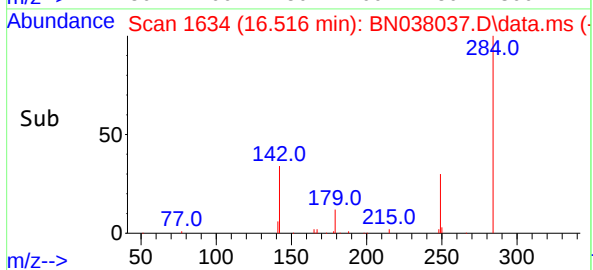
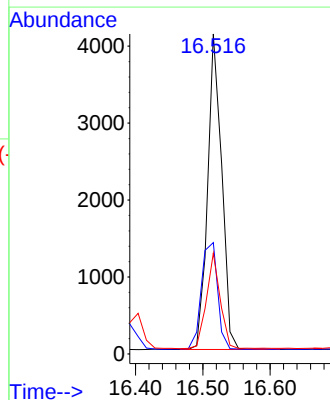
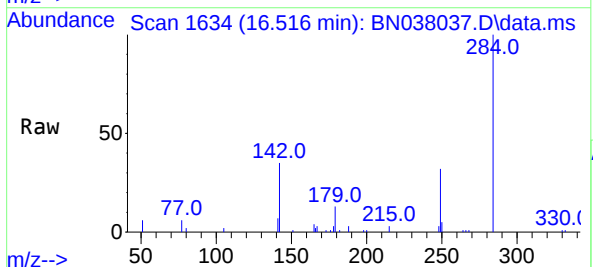
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

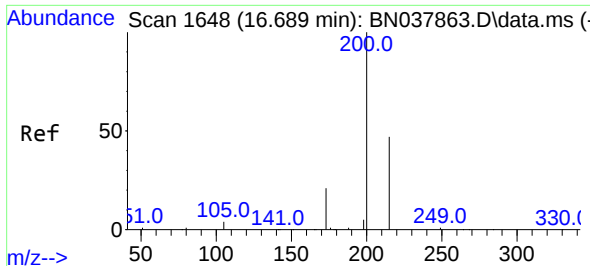
Tgt Ion:248 Resp: 4706  
Ion Ratio Lower Upper  
248 100  
250 101.8 77.6 116.4  
141 41.4 48.8 73.2#



#22  
Hexachlorobenzene  
Concen: 0.370 ng  
RT: 16.516 min Scan# 1634  
Delta R.T. -0.025 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

Tgt Ion:284 Resp: 5976  
Ion Ratio Lower Upper  
284 100  
142 39.2 30.9 46.3  
249 29.6 23.9 35.9

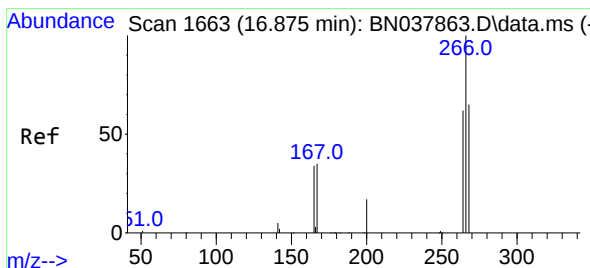
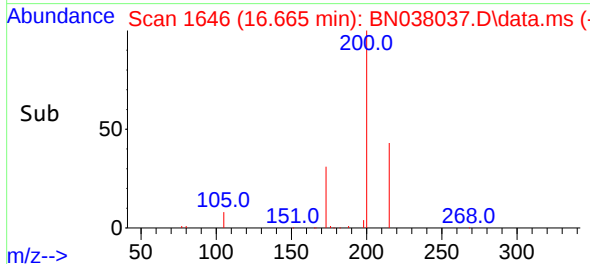
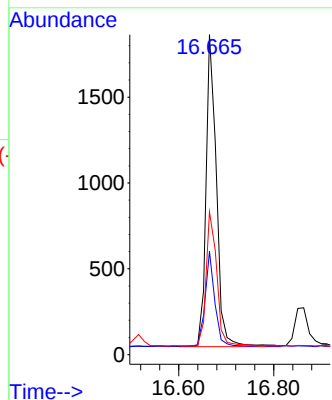
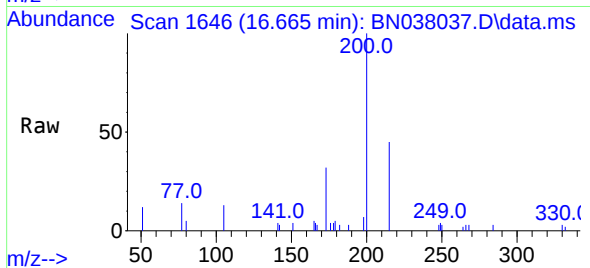




#23  
Atrazine  
Concen: 0.273 ng  
RT: 16.665 min Scan# 1646  
Delta R.T. -0.025 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

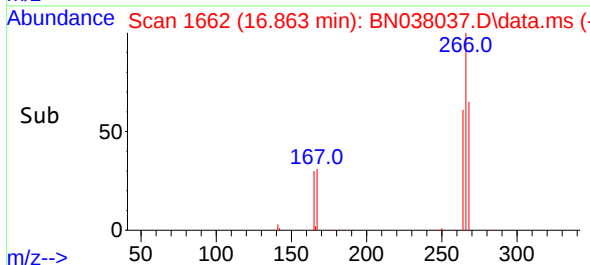
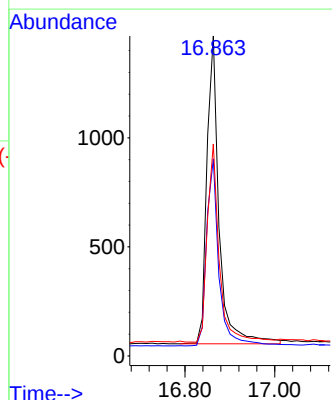
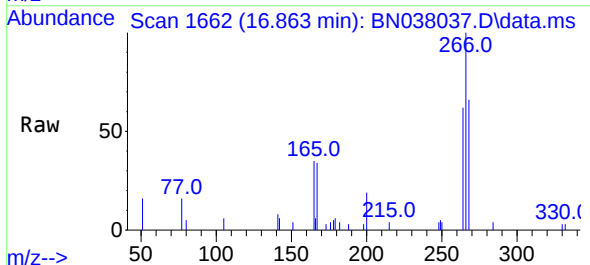
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

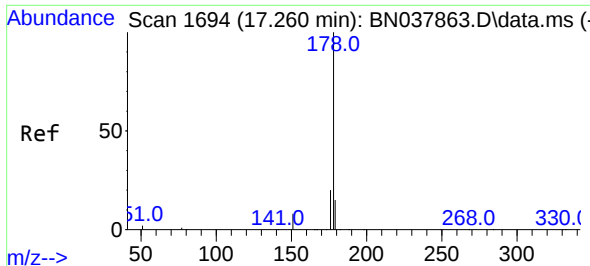
Tgt Ion:200 Resp: 2768  
Ion Ratio Lower Upper  
200 100  
173 32.3 18.3 27.5#  
215 44.6 38.6 58.0



#24  
Pentachlorophenol  
Concen: 0.481 ng  
RT: 16.863 min Scan# 1662  
Delta R.T. -0.012 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

Tgt Ion:266 Resp: 2664  
Ion Ratio Lower Upper  
266 100  
264 61.6 50.9 76.3  
268 63.1 54.3 81.5

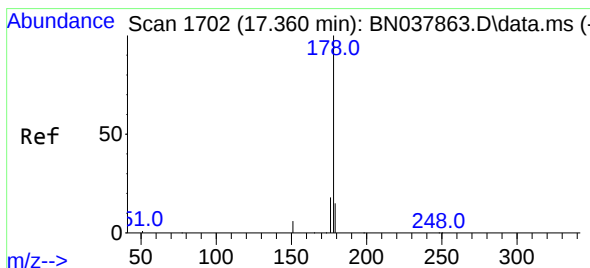
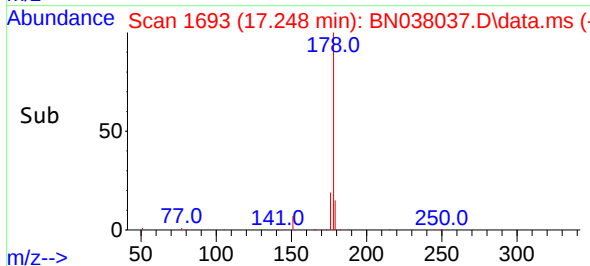
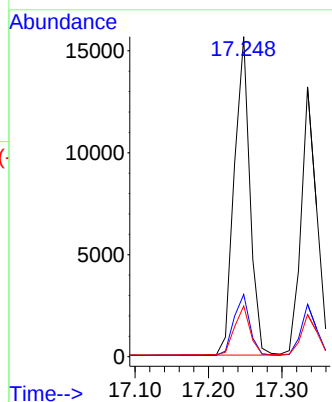
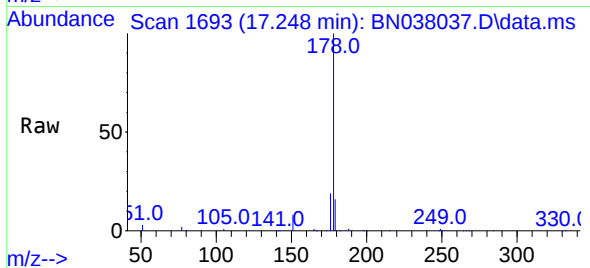




#25  
Phenanthrene  
Concen: 0.344 ng  
RT: 17.248 min Scan# 1  
Delta R.T. -0.012 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

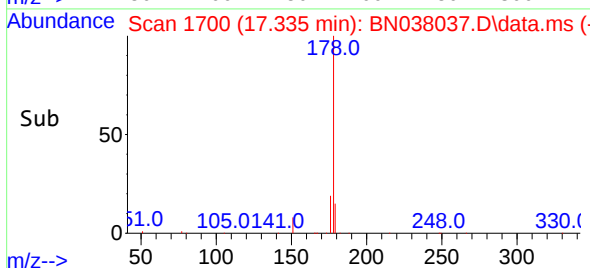
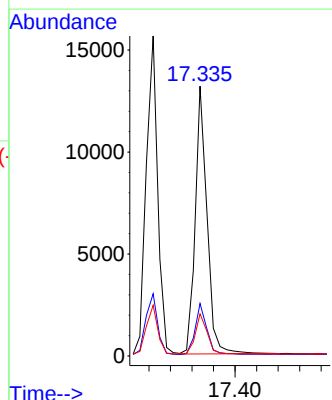
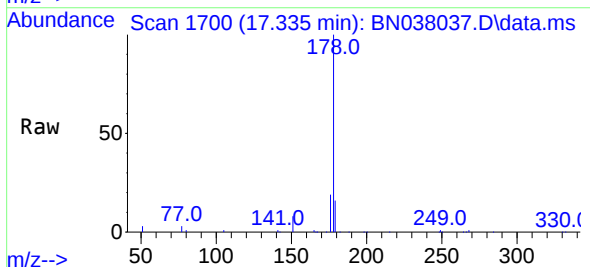
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

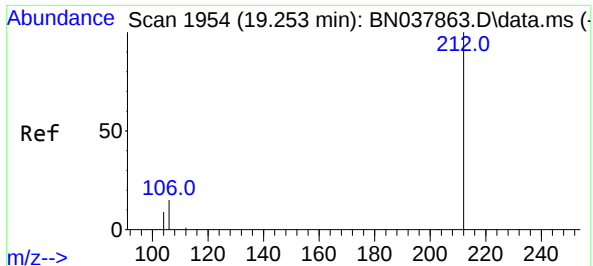
Tgt Ion:178 Resp: 23160  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.7 23.5  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.343 ng  
RT: 17.335 min Scan# 1700  
Delta R.T. -0.025 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

Tgt Ion:178 Resp: 20037  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.0 22.4  
179 15.4 12.3 18.5

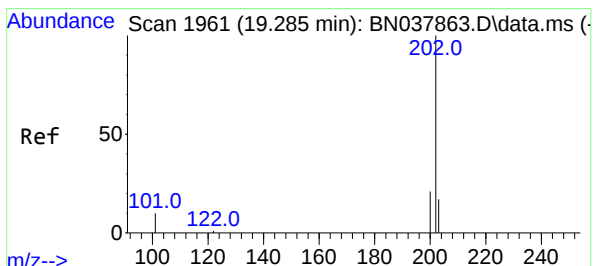
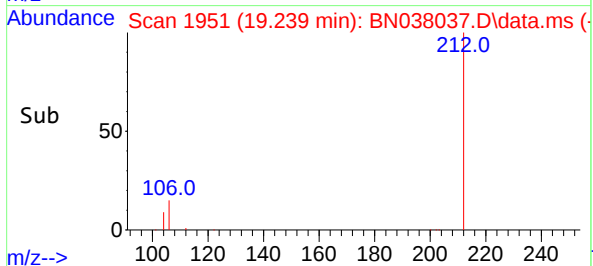
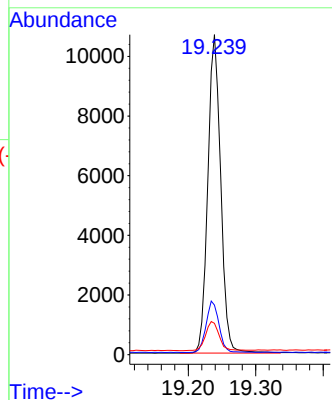
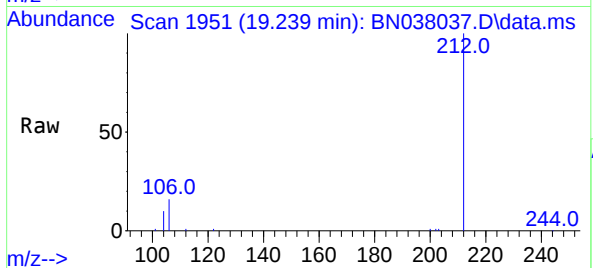




#27  
Fluoranthene-d10  
Concen: 0.276 ng  
RT: 19.239 min Scan# 1951  
Delta R.T. -0.014 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

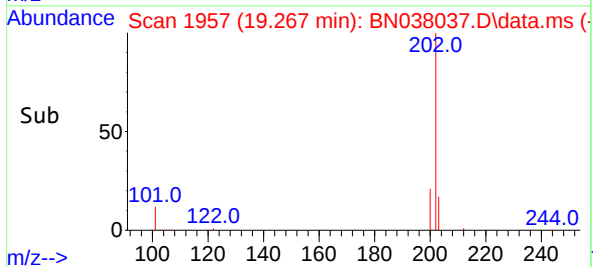
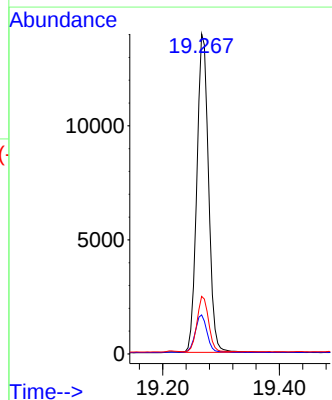
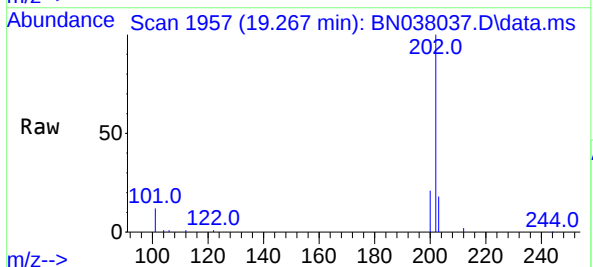
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

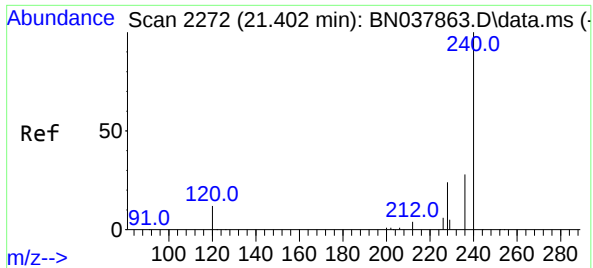
Tgt Ion:212 Resp: 14208  
Ion Ratio Lower Upper  
212 100  
106 16.1 12.6 19.0  
104 9.7 7.4 11.0



#28  
Fluoranthene  
Concen: 0.262 ng  
RT: 19.267 min Scan# 1957  
Delta R.T. -0.019 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

Tgt Ion:202 Resp: 19398  
Ion Ratio Lower Upper  
202 100  
101 12.4 9.3 13.9  
203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.393 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA\_N

ClientSampleId :

PB169904BS

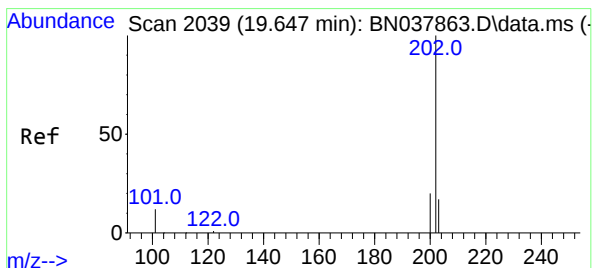
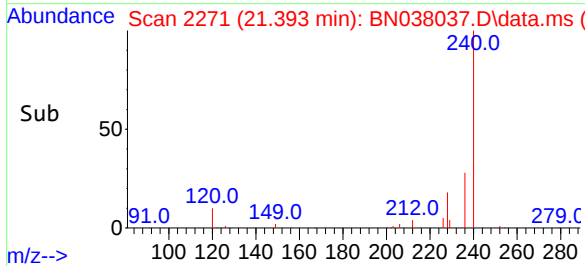
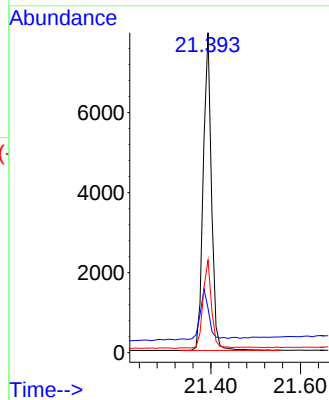
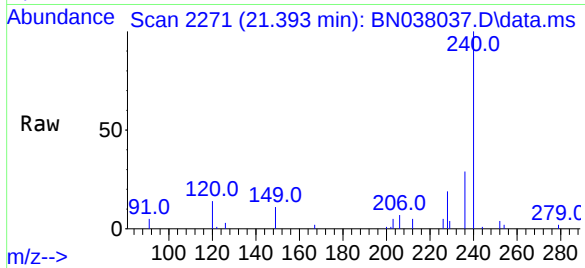
Tgt Ion:240 Resp: 10195

Ion Ratio Lower Upper

240 100

120 13.9 11.4 17.2

236 28.9 23.0 34.6



#30

Pyrene

Concen: 0.468 ng

RT: 19.629 min Scan# 2035

Delta R.T. -0.019 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

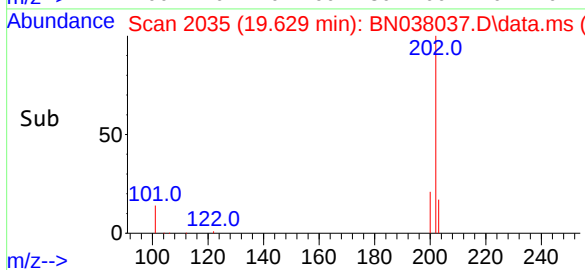
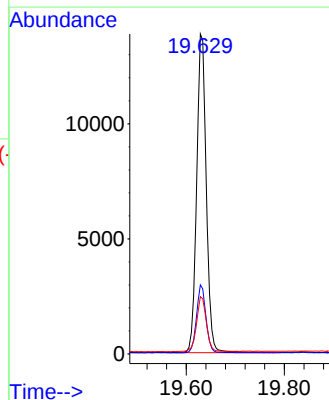
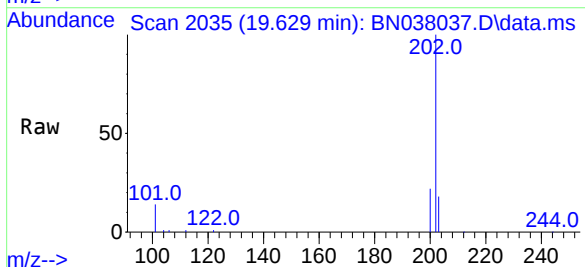
Tgt Ion:202 Resp: 18822

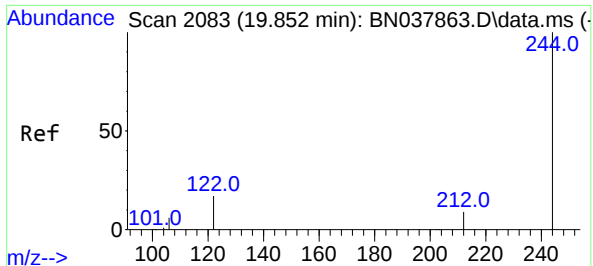
Ion Ratio Lower Upper

202 100

200 21.0 16.7 25.1

203 17.7 14.2 21.4

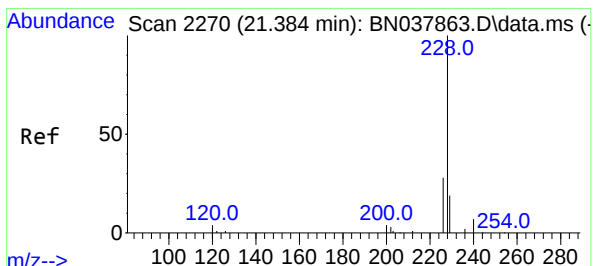
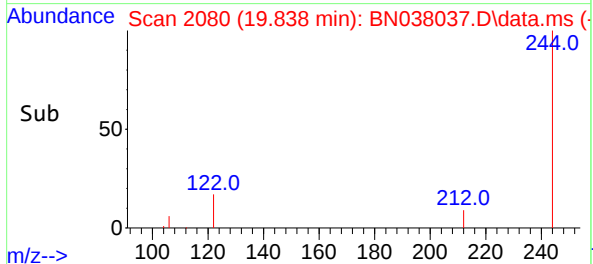
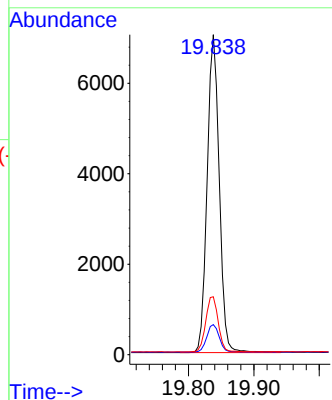
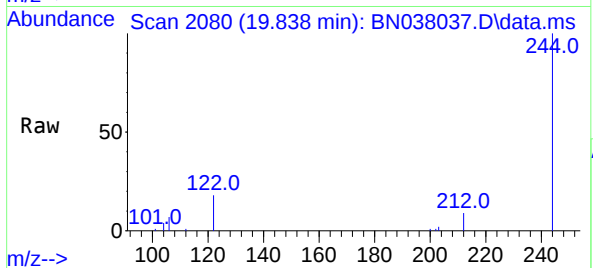




#31  
Terphenyl-d14  
Concen: 0.444 ng  
RT: 19.838 min Scan# 2083  
Delta R.T. -0.014 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

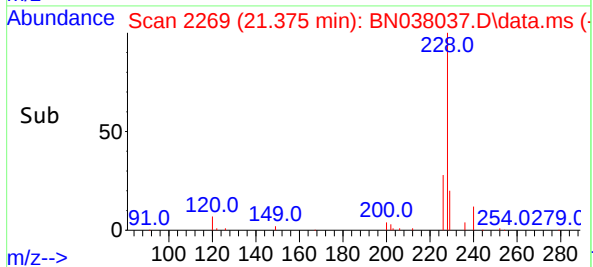
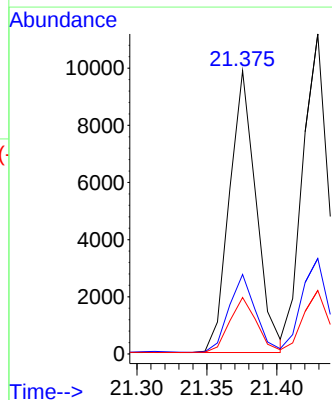
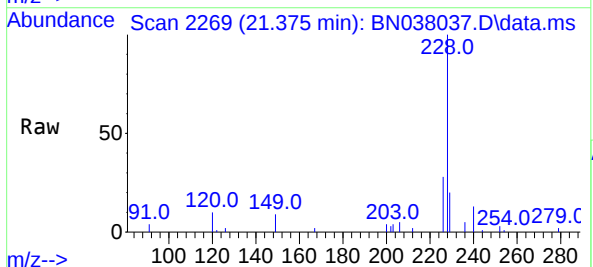
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

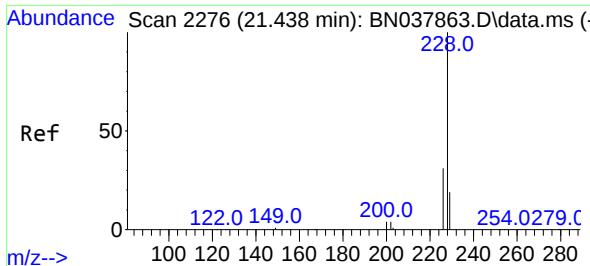
Tgt Ion:244 Resp: 9014  
Ion Ratio Lower Upper  
244 100  
212 9.4 7.6 11.4  
122 18.1 13.9 20.9



#32  
Benzo(a)anthracene  
Concen: 0.367 ng  
RT: 21.375 min Scan# 2269  
Delta R.T. -0.009 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

Tgt Ion:228 Resp: 13066  
Ion Ratio Lower Upper  
228 100  
226 28.1 22.6 33.8  
229 19.9 15.6 23.4

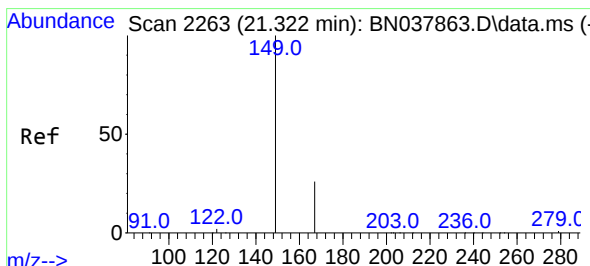
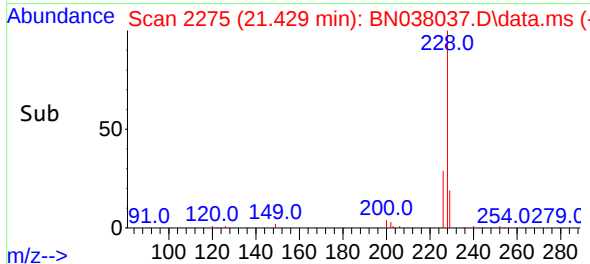
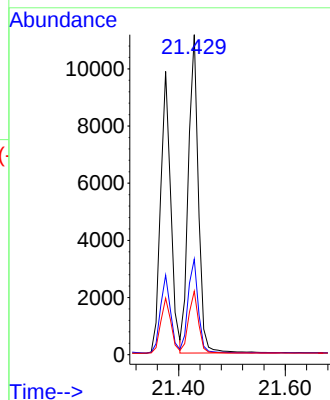
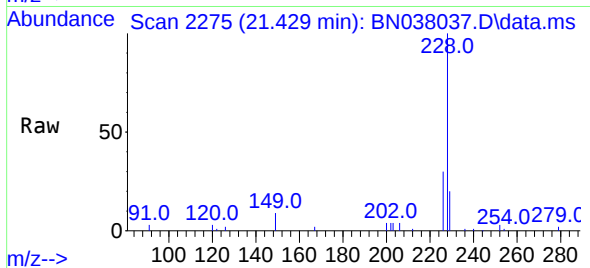




#33  
Chrysene  
Concen: 0.378 ng  
RT: 21.429 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

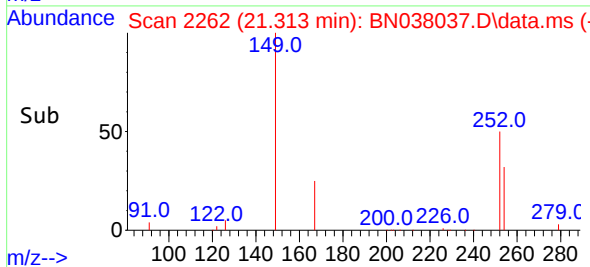
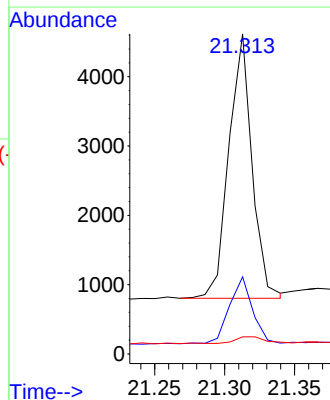
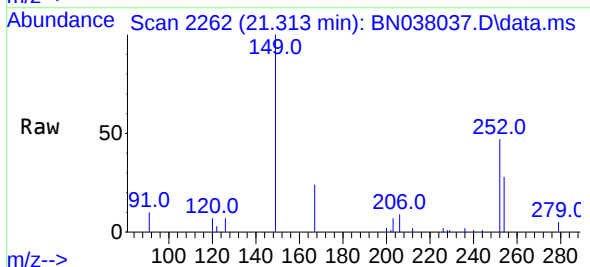
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

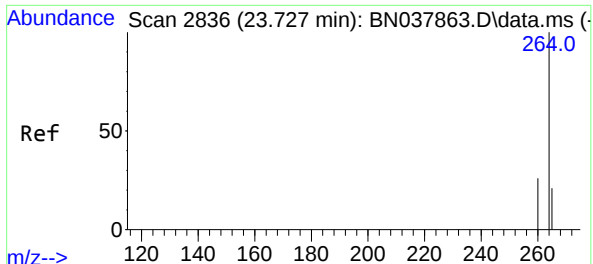
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.9  | 24.6  | 37.0  |
| 229     | 19.8  | 15.6  | 23.4  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.312 ng  
RT: 21.313 min Scan# 2262  
Delta R.T. -0.009 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 25.7  | 20.4  | 30.6  |
| 279     | 3.5   | 2.4   | 3.6   |

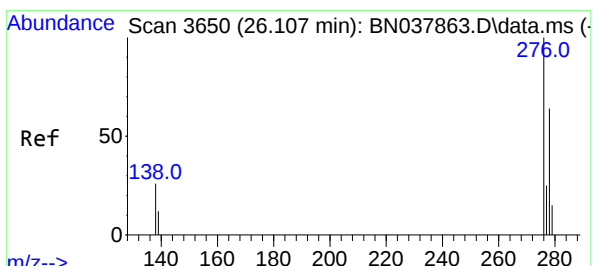
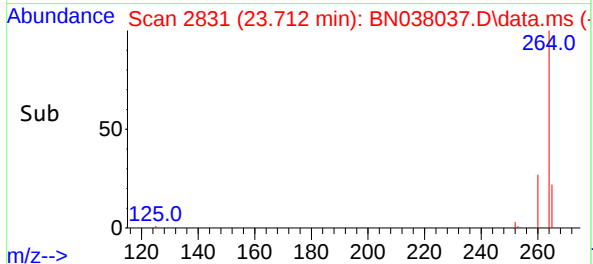
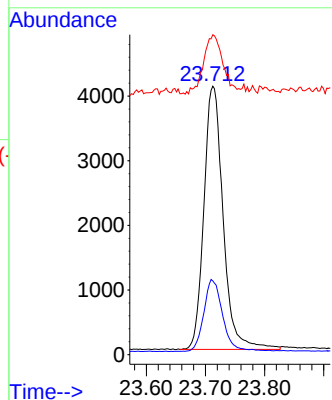
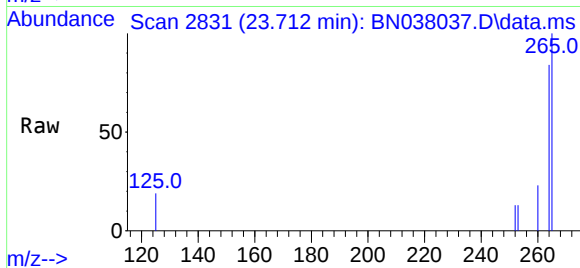




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.712 min Scan# 21  
Delta R.T. -0.015 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

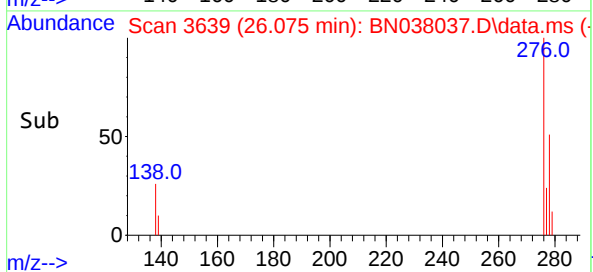
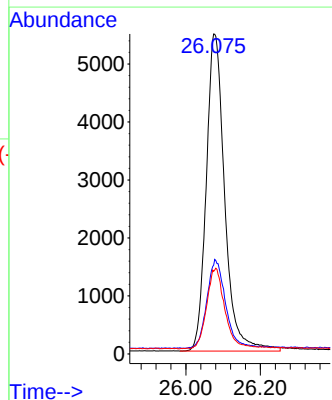
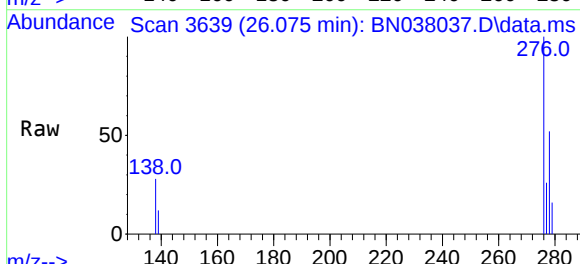
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BS

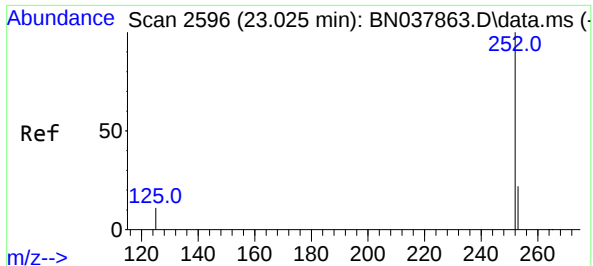
Tgt Ion:264 Resp: 9225  
Ion Ratio Lower Upper  
264 100  
260 27.5 21.5 32.3  
265 119.2 53.8 80.6#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.447 ng  
RT: 26.075 min Scan# 3639  
Delta R.T. -0.032 min  
Lab File: BN038037.D  
Acq: 07 Oct 2025 08:35

Tgt Ion:276 Resp: 18823  
Ion Ratio Lower Upper  
276 100  
138 28.2 21.4 32.0  
277 24.8 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.364 ng

RT: 23.011 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA\_N

ClientSampleId :

PB169904BS

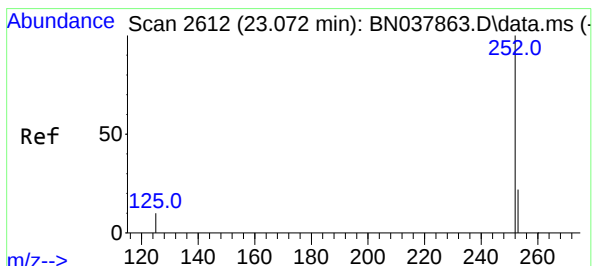
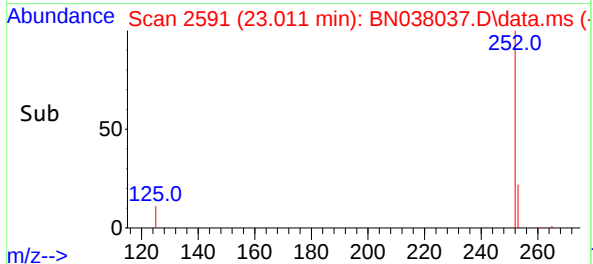
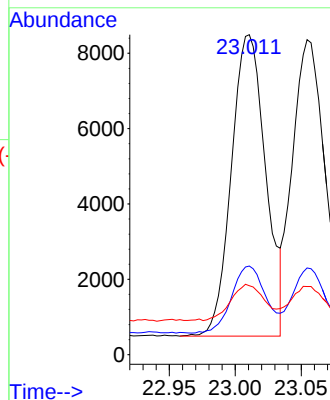
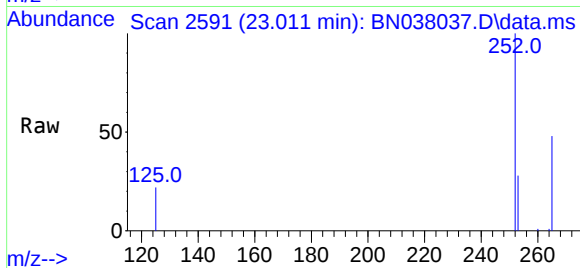
Tgt Ion:252 Resp: 14479

Ion Ratio Lower Upper

252 100

253 27.7 19.4 29.0

125 21.5 13.0 19.4#



#38

Benzo(k)fluoranthene

Concen: 0.348 ng

RT: 23.054 min Scan# 2606

Delta R.T. -0.018 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

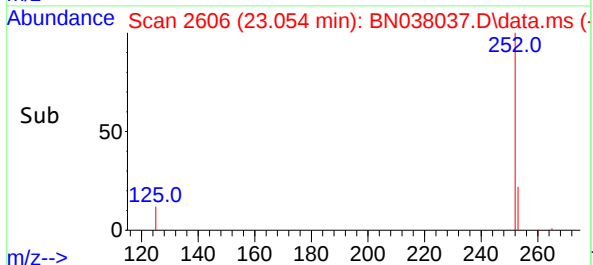
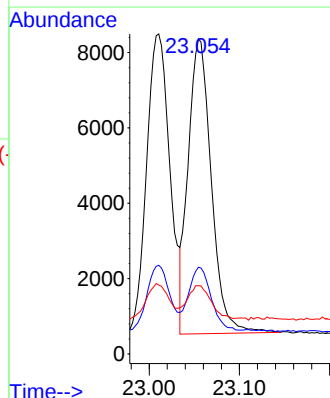
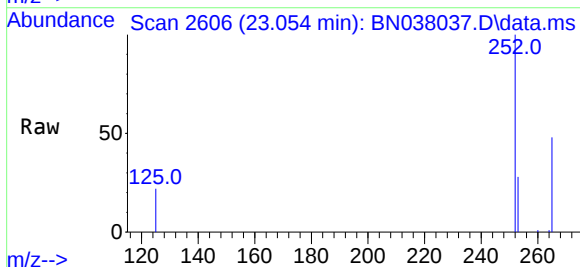
Tgt Ion:252 Resp: 13922

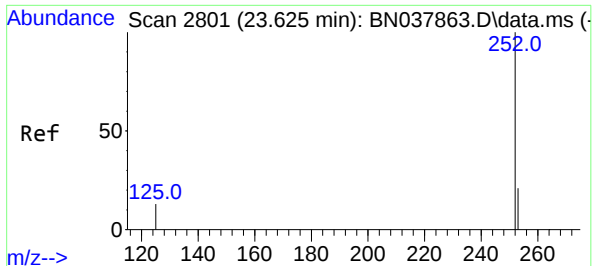
Ion Ratio Lower Upper

252 100

253 27.5 19.5 29.3

125 21.6 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.380 ng

RT: 23.610 min Scan# 21

Delta R.T. -0.015 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA\_N

ClientSampleId :

PB169904BS

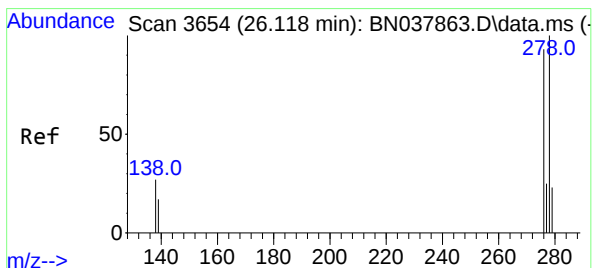
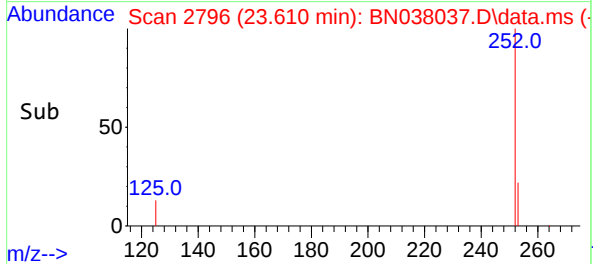
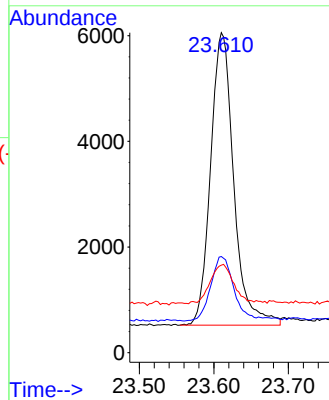
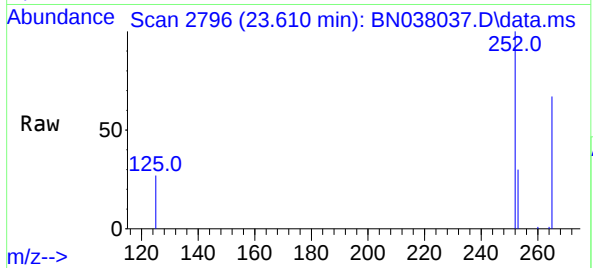
Tgt Ion:252 Resp: 11961

Ion Ratio Lower Upper

252 100

253 30.0 20.6 30.8

125 27.3 16.7 25.1#



#40

Dibenzo(a,h)anthracene

Concen: 0.446 ng

RT: 26.095 min Scan# 3646

Delta R.T. -0.023 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

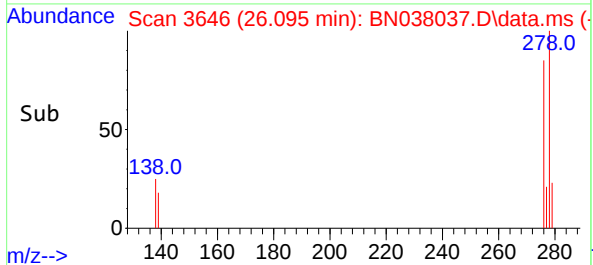
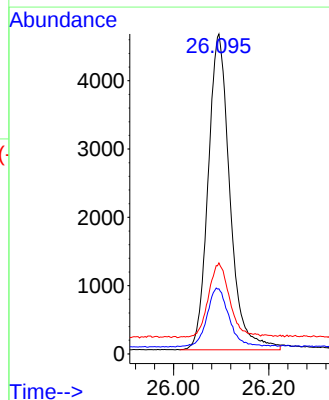
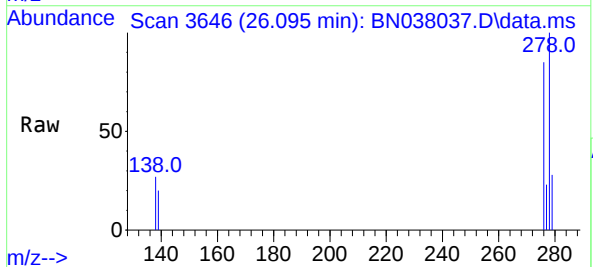
Tgt Ion:278 Resp: 14671

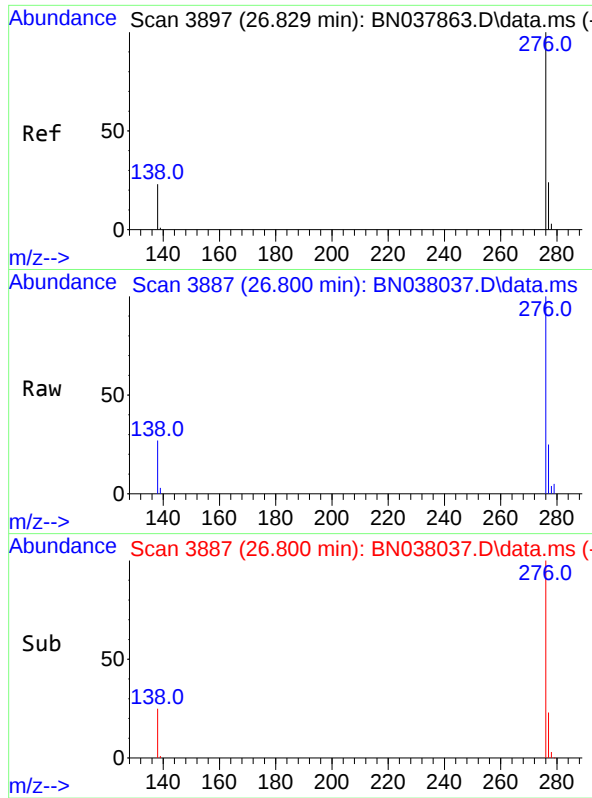
Ion Ratio Lower Upper

278 100

139 20.3 15.4 23.2

279 28.5 20.8 31.2





#41

Benzo(g,h,i)perylene

Concen: 0.472 ng

RT: 26.800 min Scan# 3887

Delta R.T. -0.029 min

Lab File: BN038037.D

Acq: 07 Oct 2025 08:35

Instrument :

BNA\_N

ClientSampleId :

PB169904BS

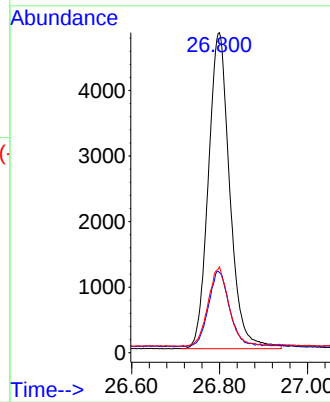
Tgt Ion:276 Resp: 16336

Ion Ratio Lower Upper

276 100

277 25.1 20.2 30.4

138 26.8 19.8 29.8



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  |                |
| Client Sample ID:  | PB169904BSD                   | SDG No.:        | Q3213          |
| Lab Sample ID:     | PB169904BSD                   | 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 |
| BN038038.D        | 1         | 09/26/25 13:15 | 10/07/25 09:11 | PB169904      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.32  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.32  |           | 30 - 150 |      | 80%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.28  |           | 30 - 150 |      | 71%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.40  |           | 55 - 111 |      | 100%       | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.37  |           | 53 - 106 |      | 91%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.51  |           | 58 - 132 |      | 128%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 9180  | 7.804     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 24800 | 10.605    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 12000 | 14.452    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 22000 | 17.21     |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 11700 | 21.393    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 9470  | 23.709    |          |      |            |          |

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\BN100625\  
 Data File : BN038038.D  
 Acq On : 07 Oct 2025 09:11  
 Operator : RC/JU  
 Sample : PB169904BSD  
 Misc :  
 ALS Vial : 38 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB169904BSD

Quant Time: Oct 07 10:39:22 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 11:00:01 2025  
 Response via : Initial Calibration

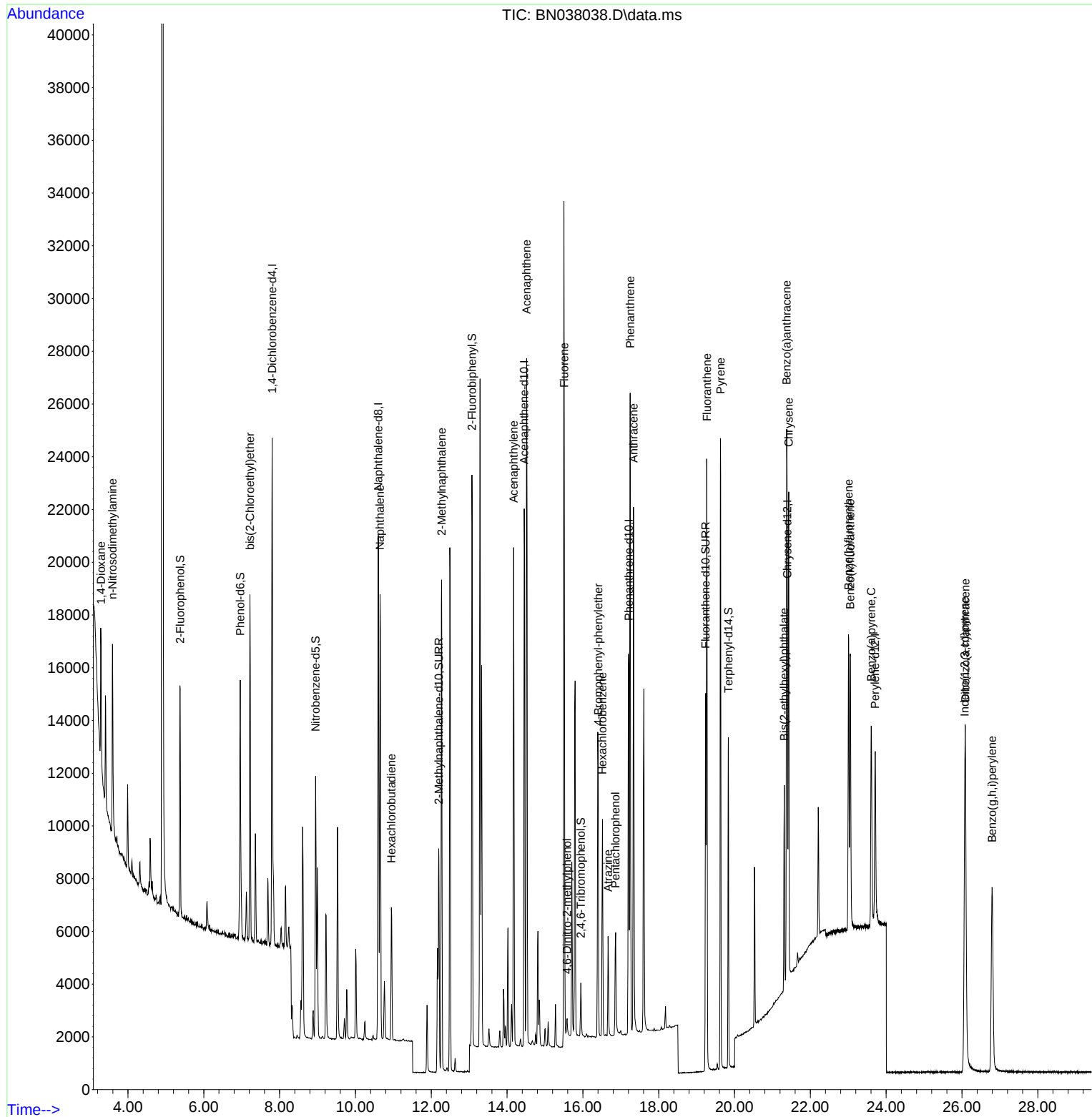
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.804  | 152  | 9176     | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8             | 10.605 | 136  | 24837    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.452 | 164  | 12022    | 0.400 | ng    | -0.02    |
| 19) Phenanthrene-d10          | 17.210 | 188  | 21952    | 0.400 | ng    | #-0.01   |
| 29) Chrysene-d12              | 21.393 | 240  | 11724    | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.709 | 264  | 9473     | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.377  | 112  | 7012     | 0.335 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.959  | 99   | 8659     | 0.315 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.950  | 82   | 7548     | 0.398 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 12.197 | 152  | 11018    | 0.319 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.944 | 330  | 1160     | 0.254 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 13.073 | 172  | 18030    | 0.366 | ng    | -0.02    |
| 27) Fluoranthene-d10          | 19.238 | 212  | 15684    | 0.284 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.838 | 244  | 11981    | 0.513 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.290  | 88   | 2987     | 0.321 | ng    | # 66     |
| 3) n-Nitrosodimethylamine     | 3.593  | 42   | 4347     | 0.351 | ng    | # 90     |
| 6) bis(2-Chloroethyl)ether    | 7.219  | 93   | 8835     | 0.346 | ng    | 97       |
| 9) Naphthalene                | 10.648 | 128  | 23095    | 0.338 | ng    | 100      |
| 10) Hexachlorobutadiene       | 10.946 | 225  | 4175     | 0.358 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.273 | 142  | 13049    | 0.292 | ng    | 98       |
| 16) Acenaphthylene            | 14.174 | 152  | 20187    | 0.370 | ng    | 99       |
| 17) Acenaphthene              | 14.516 | 154  | 12518    | 0.322 | ng    | 98       |
| 18) Fluorene                  | 15.510 | 166  | 14578    | 0.310 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.584 | 198  | 600      | 0.283 | ng    | # 63     |
| 21) 4-Bromophenyl-phenylether | 16.404 | 248  | 4968     | 0.347 | ng    | # 85     |
| 22) Hexachlorobenzene         | 16.515 | 284  | 6169     | 0.356 | ng    | 98       |
| 23) Atrazine                  | 16.664 | 200  | 3032     | 0.278 | ng    | # 91     |
| 24) Pentachlorophenol         | 16.863 | 266  | 2342     | 0.394 | ng    | 97       |
| 25) Phenanthrene              | 17.248 | 178  | 24612    | 0.341 | ng    | 100      |
| 26) Anthracene                | 17.335 | 178  | 21292    | 0.340 | ng    | 100      |
| 28) Fluoranthene              | 19.271 | 202  | 21690    | 0.273 | ng    | 99       |
| 30) Pyrene                    | 19.629 | 202  | 21147    | 0.457 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.375 | 228  | 14611    | 0.357 | ng    | 99       |
| 33) Chrysene                  | 21.429 | 228  | 15951    | 0.360 | ng    | 99       |
| 34) Bis(2-ethylhexyl)phtha... | 21.313 | 149  | 4629     | 0.286 | ng    | # 98     |
| 36) Indeno(1,2,3-cd)pyrene    | 26.074 | 276  | 17647    | 0.408 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 23.008 | 252  | 14576    | 0.357 | ng    | # 92     |
| 38) Benzo(k)fluoranthene      | 23.054 | 252  | 14328    | 0.349 | ng    | # 91     |
| 39) Benzo(a)pyrene            | 23.607 | 252  | 12131    | 0.375 | ng    | # 89     |
| 40) Dibenzo(a,h)anthracene    | 26.092 | 278  | 13828    | 0.409 | ng    | 96       |
| 41) Benzo(g,h,i)perylene      | 26.794 | 276  | 15498    | 0.436 | ng    | 97       |

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

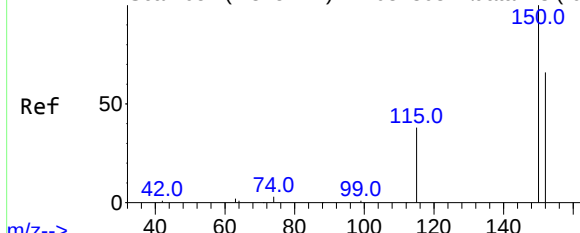
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038038.D  
Acq On : 07 Oct 2025 09:11  
Operator : RC/JU  
Sample : PB169904BSD  
Misc :  
ALS Vial : 38 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

Quant Time: Oct 07 10:39:22 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration



Abundance Scan 657 (7.825 min): BN037863.D\data.ms (-64



#1

1,4-Dichlorobenzene-d4

Concen: 0.400 ng

RT: 7.804 min Scan# 61

Delta R.T. -0.021 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

Instrument :

BNA\_N

ClientSampleId :

PB169904BSD

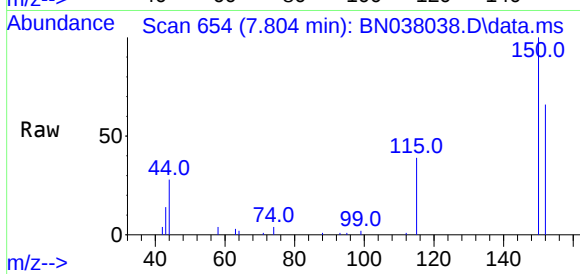
Tgt Ion:152 Resp: 9176

Ion Ratio Lower Upper

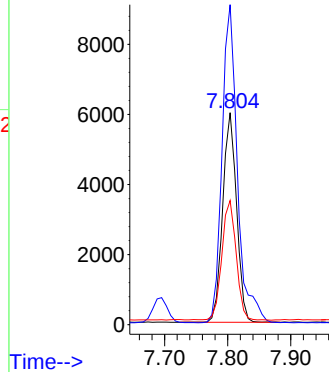
152 100

150 150.9 121.0 181.4

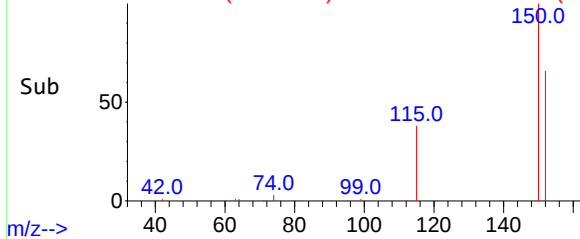
115 58.6 47.4 71.0



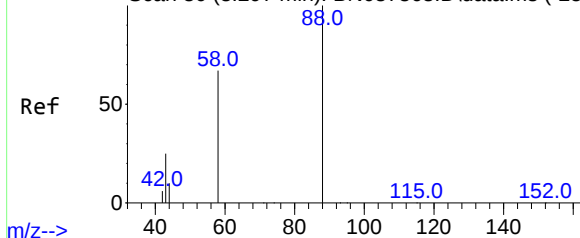
Abundance



Abundance Scan 654 (7.804 min): BN038038.D\data.ms (-62



Abundance Scan 30 (3.297 min): BN037863.D\data.ms (-25)



#2

1,4-Dioxane

Concen: 0.321 ng

RT: 3.290 min Scan# 29

Delta R.T. -0.007 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

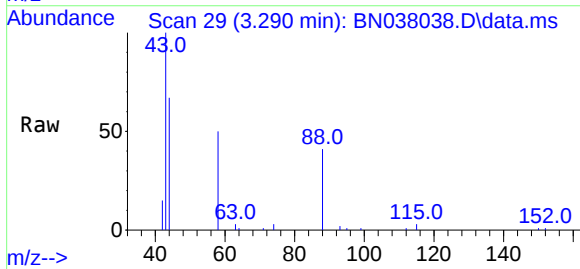
Tgt Ion: 88 Resp: 2987

Ion Ratio Lower Upper

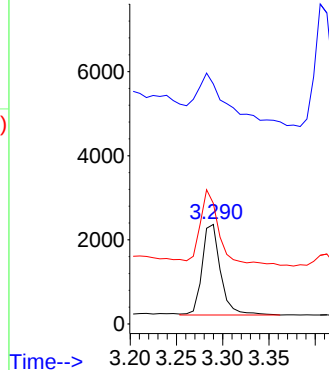
88 100

43 78.2 26.6 39.8#

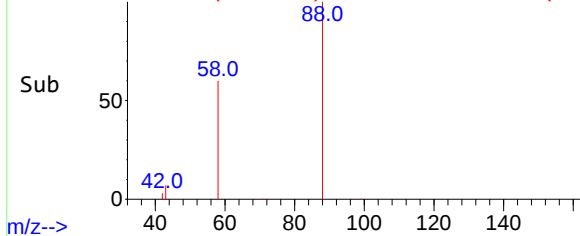
58 84.8 58.9 88.3



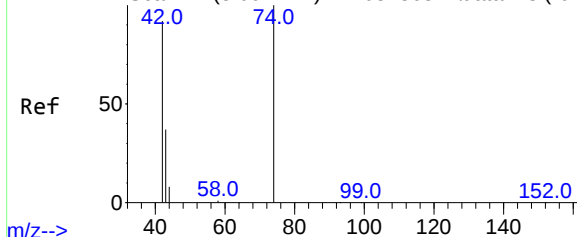
Abundance



Abundance Scan 29 (3.290 min): BN038038.D\data.ms (-16)



Abundance Scan 72 (3.601 min): BN037863.D\data.ms (-67)



#3

n-Nitrosodimethylamine

Concen: 0.351 ng

RT: 3.593 min Scan# 71

Delta R.T. -0.007 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

Instrument :

BNA\_N

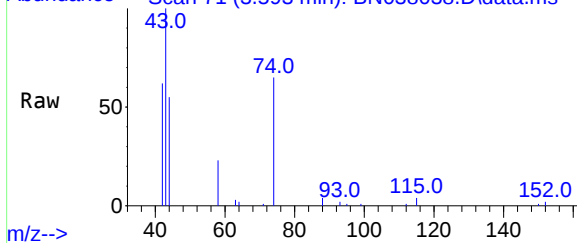
ClientSampleId :

PB169904BSD

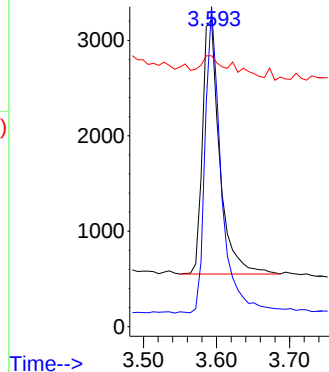
Tgt Ion: 42 Resp: 4347

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 42  | 100   |       |       |
| 74  | 114.6 | 93.4  | 140.0 |
| 44  | 5.1   | 22.2  | 33.4  |

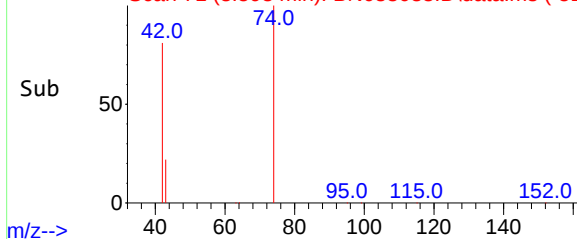
Abundance Scan 71 (3.593 min): BN038038.D\data.ms



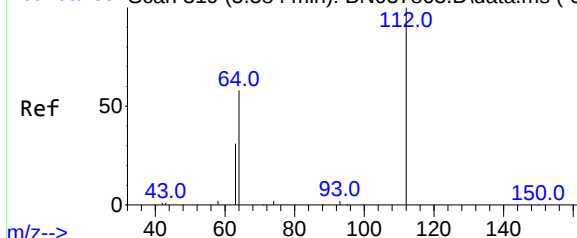
Abundance



Abundance Scan 71 (3.593 min): BN038038.D\data.ms (-51)



Abundance Scan 319 (5.384 min): BN037863.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.335 ng

RT: 5.377 min Scan# 318

Delta R.T. -0.007 min

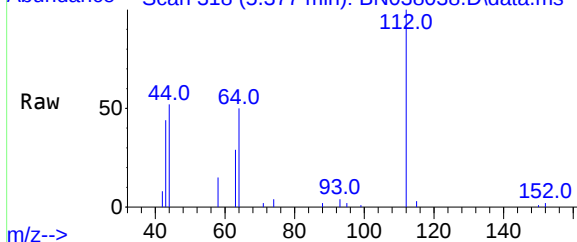
Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

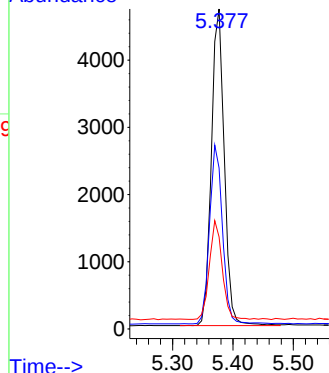
Tgt Ion: 112 Resp: 7012

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 112 | 100   |       |       |
| 64  | 57.0  | 44.6  | 66.8  |
| 63  | 30.7  | 24.9  | 37.3  |

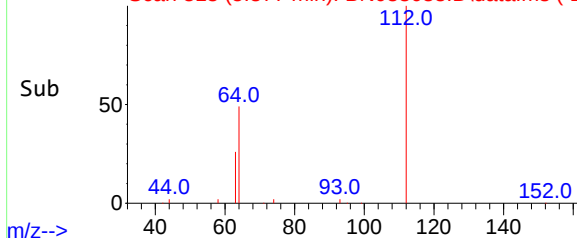
Abundance Scan 318 (5.377 min): BN038038.D\data.ms



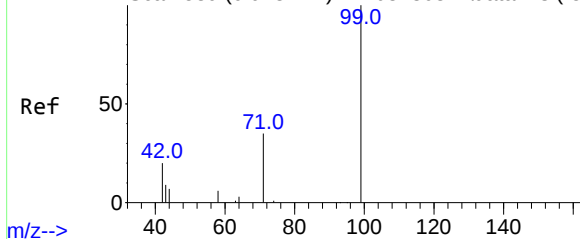
Abundance



Abundance Scan 318 (5.377 min): BN038038.D\data.ms (-29)



Abundance Scan 539 (6.973 min): BN037863.D\data.ms (-53)



#5

Phenol-d6

Concen: 0.315 ng

RT: 6.959 min Scan# 51

Delta R.T. -0.015 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

Instrument :

BNA\_N

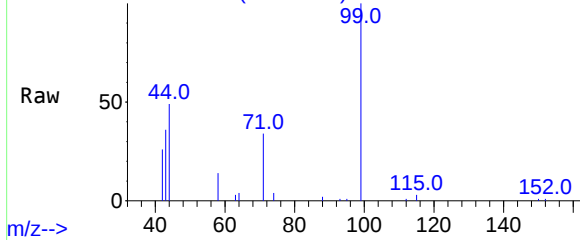
ClientSampleId :

PB169904BSD

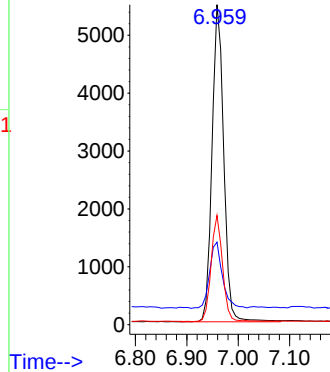
Tgt Ion: 99 Resp: 8659

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 99  | 100   |       |       |
| 42  | 23.1  | 17.2  | 25.8  |
| 71  | 32.8  | 27.3  | 40.9  |

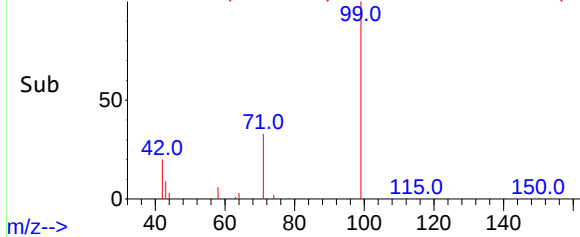
Abundance Scan 537 (6.959 min): BN038038.D\data.ms



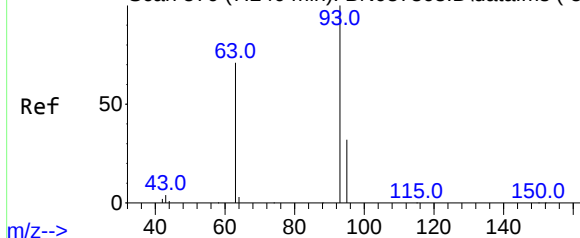
Abundance



Abundance Scan 537 (6.959 min): BN038038.D\data.ms (-51)



Abundance Scan 576 (7.240 min): BN037863.D\data.ms (-57)



#6

bis(2-Chloroethyl)ether

Concen: 0.346 ng

RT: 7.219 min Scan# 573

Delta R.T. -0.022 min

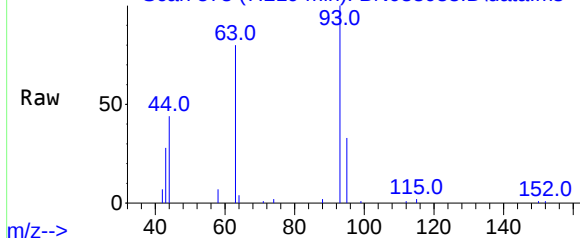
Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

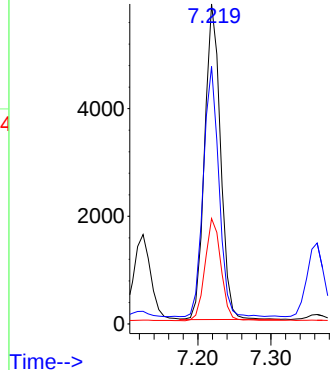
Tgt Ion: 93 Resp: 8835

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 93  | 100   |       |       |
| 63  | 78.3  | 60.1  | 90.1  |
| 95  | 32.5  | 25.4  | 38.2  |

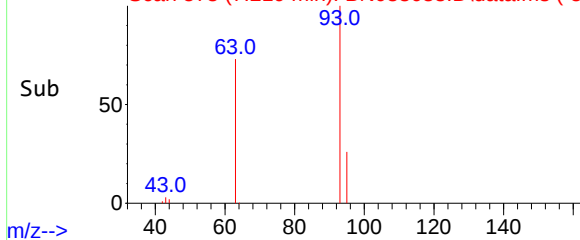
Abundance Scan 573 (7.219 min): BN038038.D\data.ms

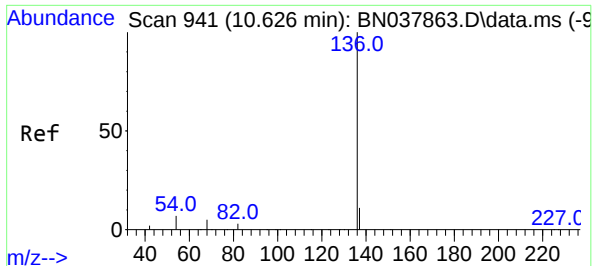


Abundance



Abundance Scan 573 (7.219 min): BN038038.D\data.ms (-54)

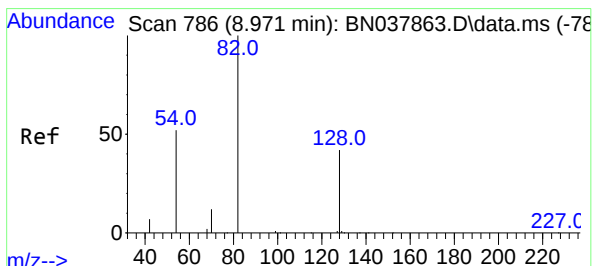
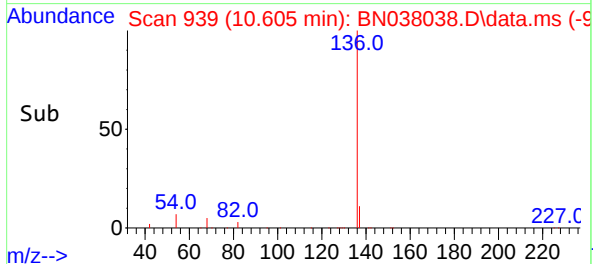
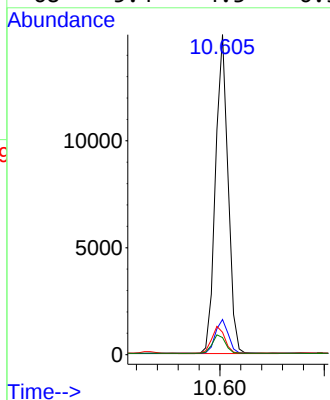
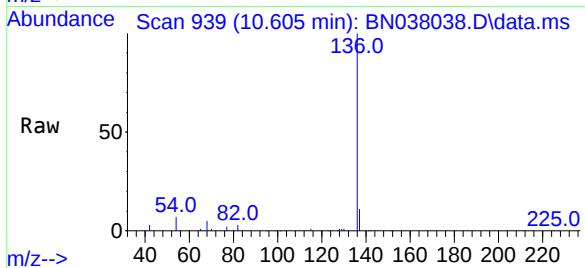




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.605 min Scan# 91  
Delta R.T. -0.021 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

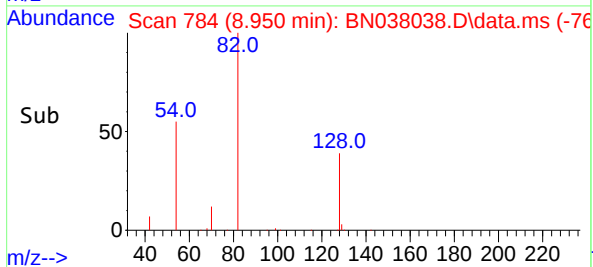
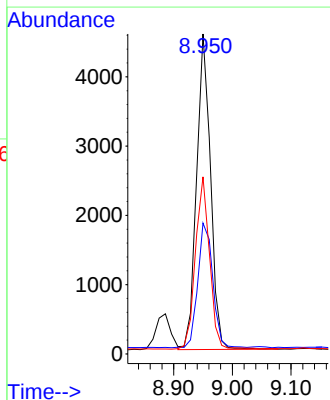
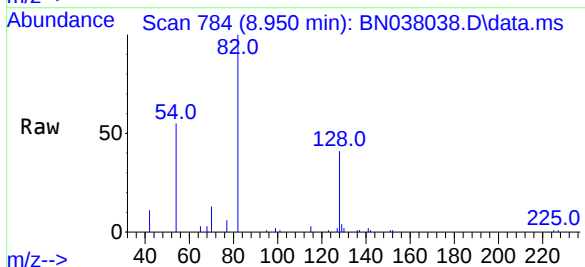
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

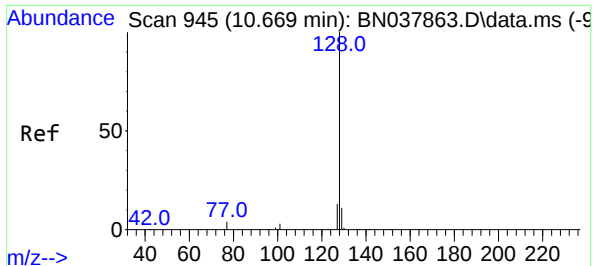
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 24837 |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 11.0  | 9.0   | 13.4  |
| 54       | 7.0   | 5.8   | 8.8   |
| 68       | 5.4   | 4.3   | 6.5   |



#8  
Nitrobenzene-d5  
Concen: 0.398 ng  
RT: 8.950 min Scan# 784  
Delta R.T. -0.021 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 7548  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.9  | 34.8  | 52.2  |
| 54       | 55.3  | 42.2  | 63.2  |

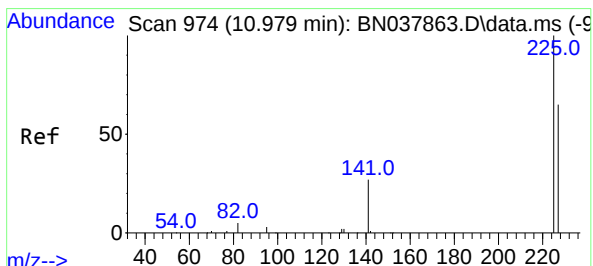
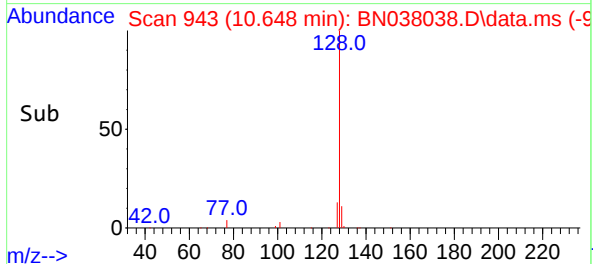
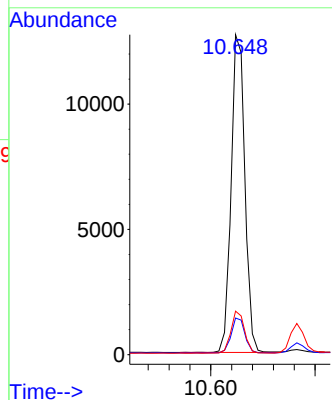
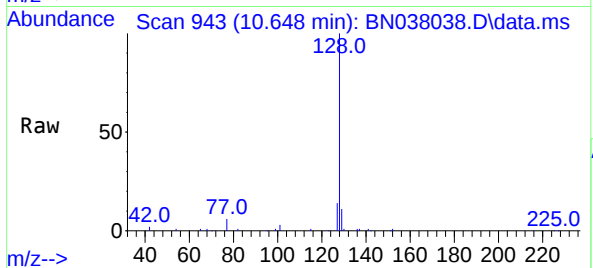




#9  
Naphthalene  
Concen: 0.338 ng  
RT: 10.648 min Scan# 941  
Delta R.T. -0.021 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

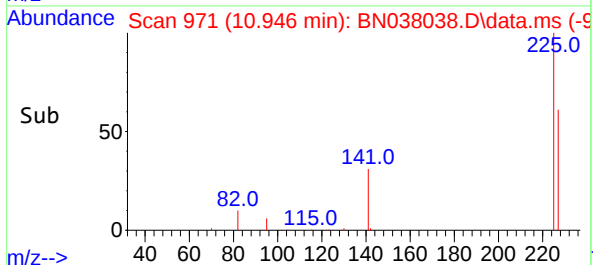
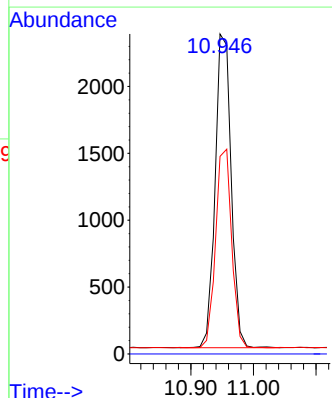
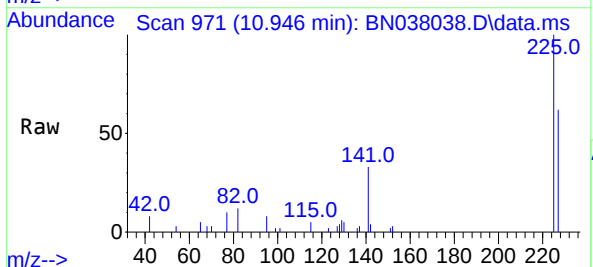
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

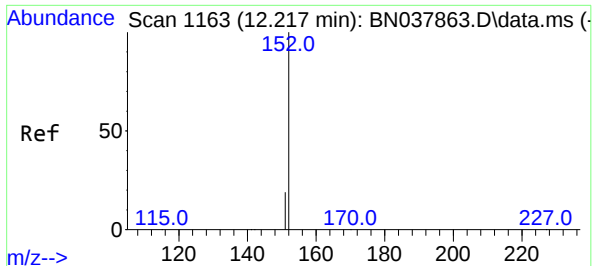
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 23095 |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 11.5  | 9.2   | 13.8  |
| 127      | 13.6  | 11.0  | 16.6  |



#10  
Hexachlorobutadiene  
Concen: 0.358 ng  
RT: 10.946 min Scan# 971  
Delta R.T. -0.032 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 4175  |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.6  | 51.4  | 77.2  |

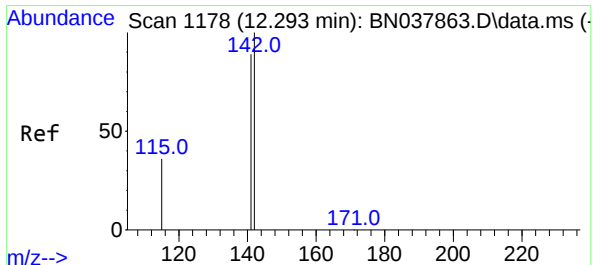
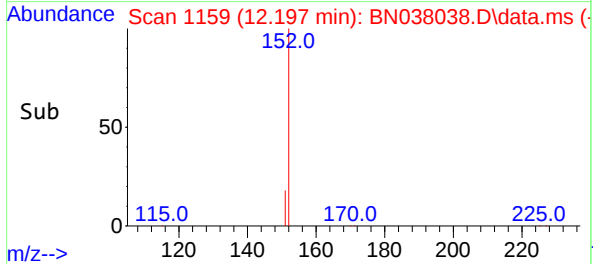
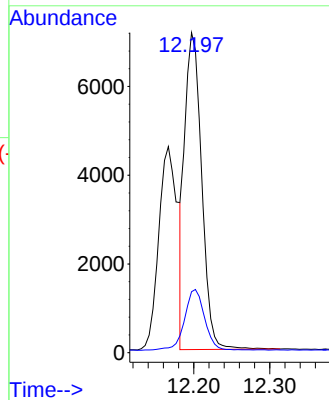
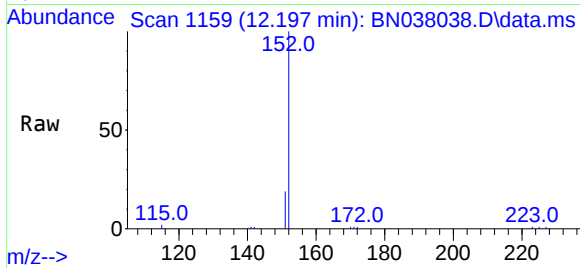




#11  
2-Methylnaphthalene-d10  
Concen: 0.319 ng  
RT: 12.197 min Scan# 1163  
Delta R.T. -0.020 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

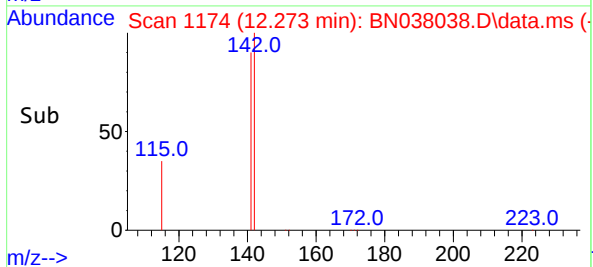
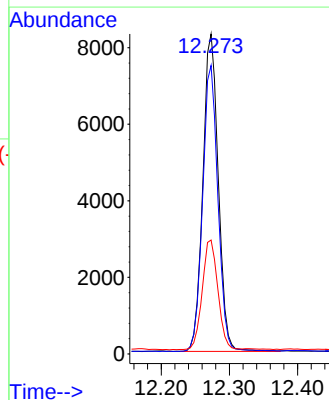
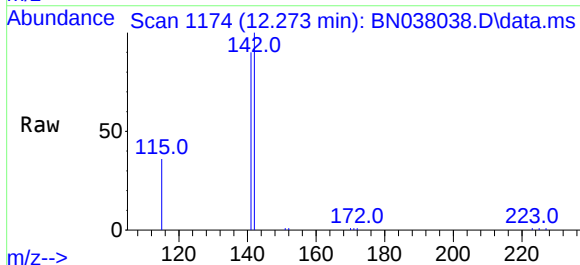
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

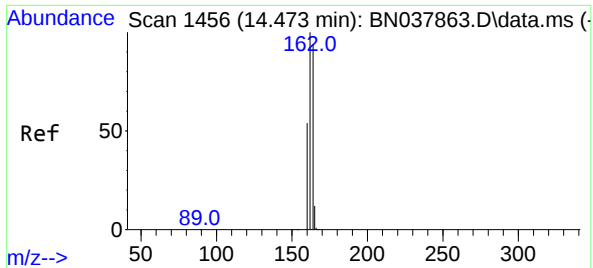
Tgt Ion:152 Resp: 11018  
Ion Ratio Lower Upper  
152 100  
151 22.9 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 0.292 ng  
RT: 12.273 min Scan# 1174  
Delta R.T. -0.020 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

Tgt Ion:142 Resp: 13049  
Ion Ratio Lower Upper  
142 100  
141 90.2 71.2 106.8  
115 35.6 29.7 44.5

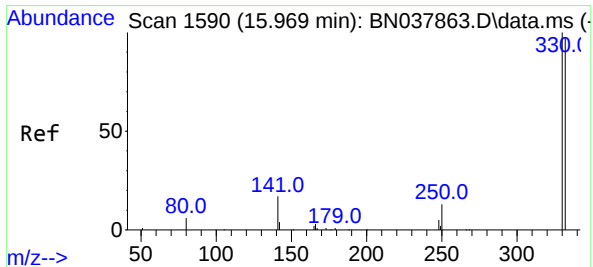
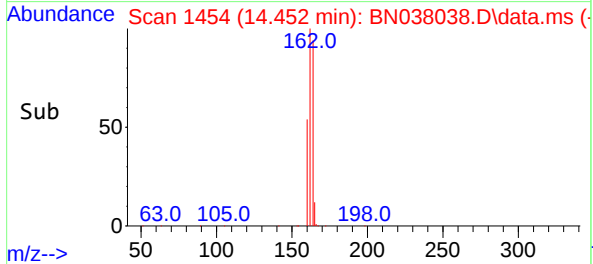
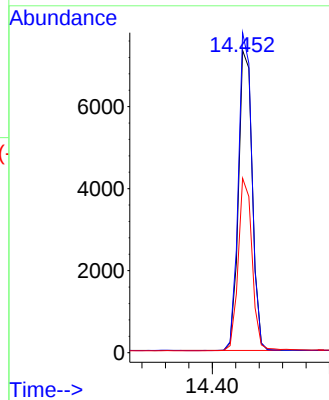
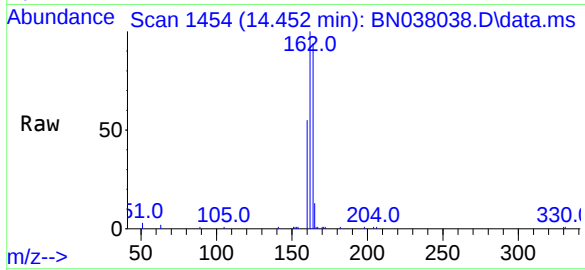




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.452 min Scan# 14  
Delta R.T. -0.022 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

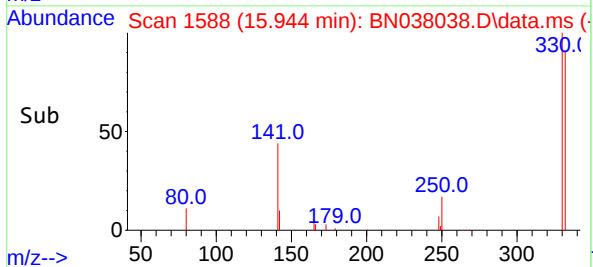
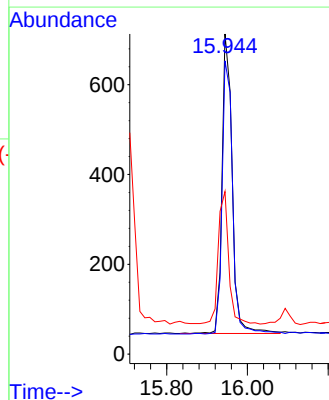
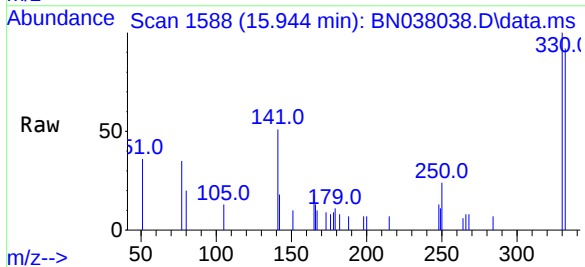
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

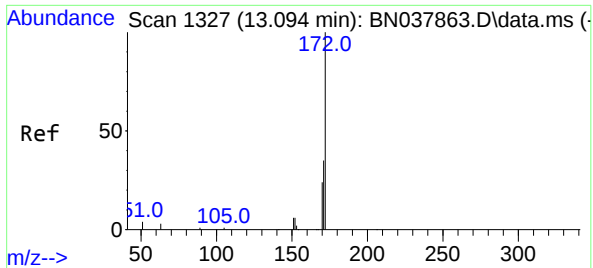
Tgt Ion:164 Resp: 12022  
Ion Ratio Lower Upper  
164 100  
162 105.9 84.8 127.2  
160 57.7 46.1 69.1



#14  
2,4,6-Tribromophenol  
Concen: 0.254 ng  
RT: 15.944 min Scan# 1588  
Delta R.T. -0.025 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

Tgt Ion:330 Resp: 1160  
Ion Ratio Lower Upper  
330 100  
332 94.5 77.2 115.8  
141 45.6 37.2 55.8

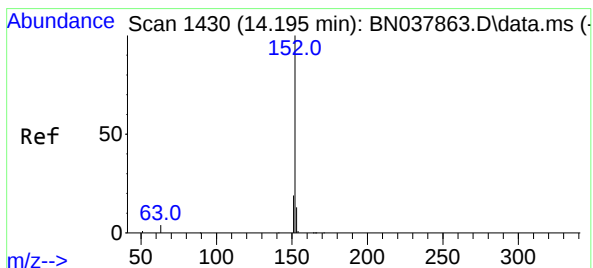
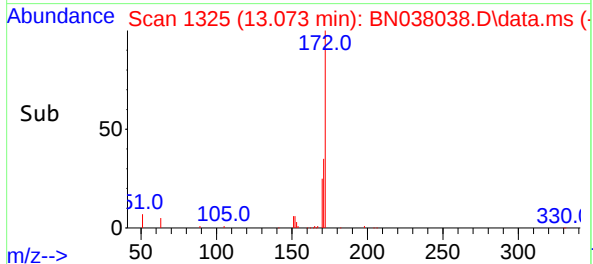
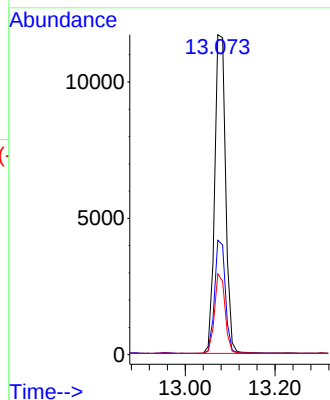
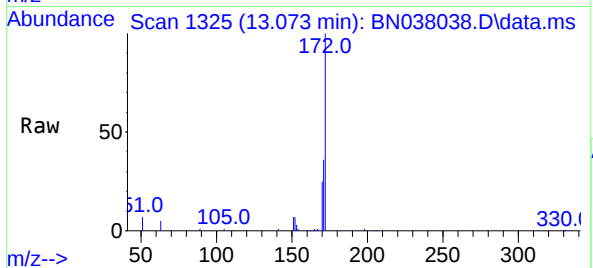




#15  
2-Fluorobiphenyl  
Concen: 0.366 ng  
RT: 13.073 min Scan# 11  
Delta R.T. -0.021 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

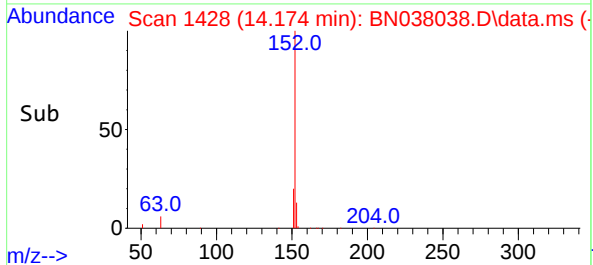
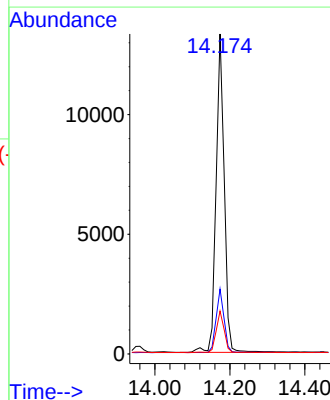
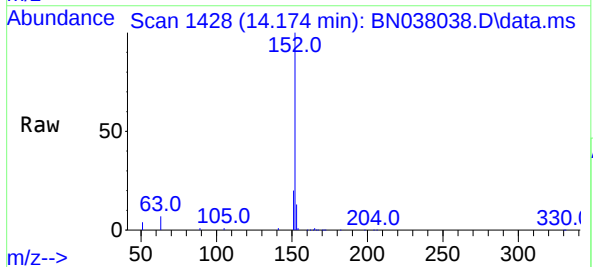
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

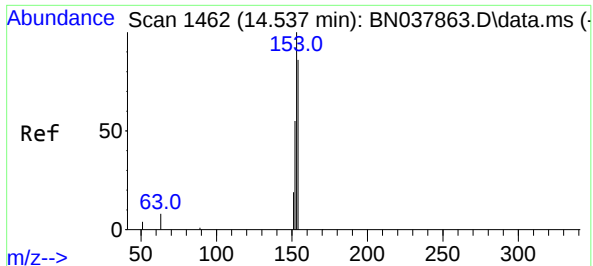
Tgt Ion:172 Resp: 18030  
Ion Ratio Lower Upper  
172 100  
171 35.8 28.6 43.0  
170 25.3 19.7 29.5



#16  
Acenaphthylene  
Concen: 0.370 ng  
RT: 14.174 min Scan# 1428  
Delta R.T. -0.021 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

Tgt Ion:152 Resp: 20187  
Ion Ratio Lower Upper  
152 100  
151 19.4 15.8 23.8  
153 12.9 10.5 15.7

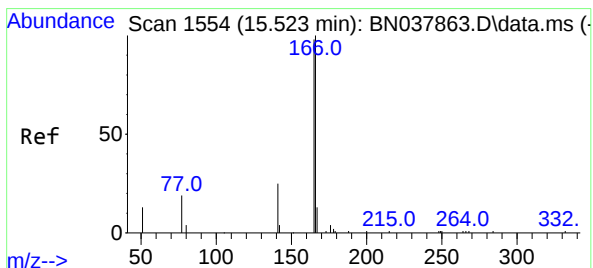
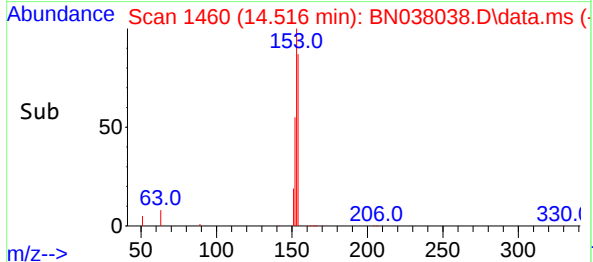
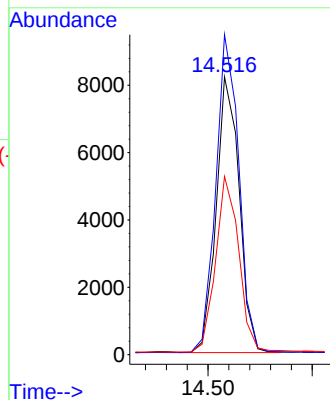
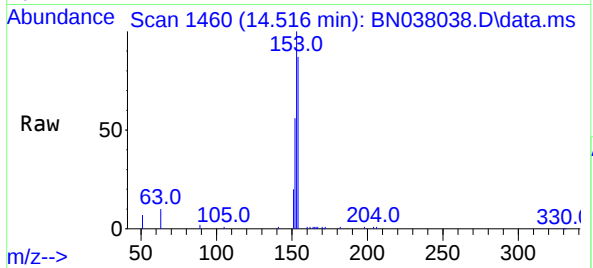




#17  
Acenaphthene  
Concen: 0.322 ng  
RT: 14.516 min Scan# 1460  
Delta R.T. -0.021 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

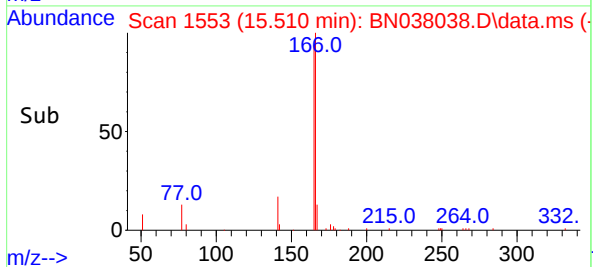
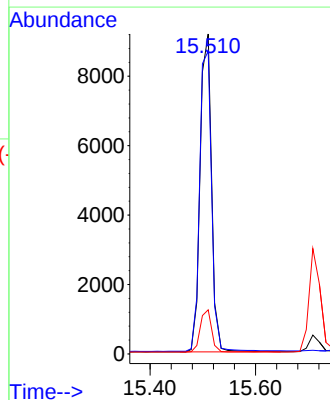
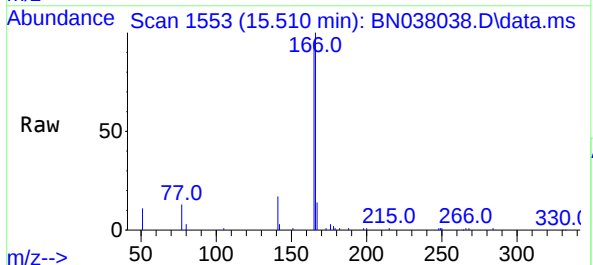
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

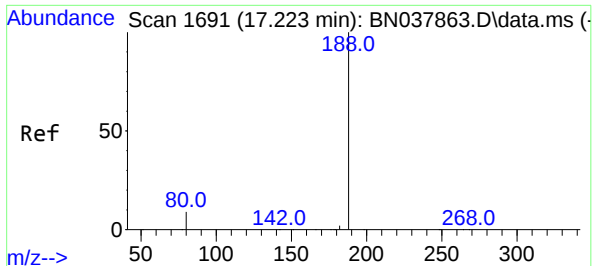
Tgt Ion:154 Resp: 12518  
Ion Ratio Lower Upper  
154 100  
153 116.1 90.5 135.7  
152 65.5 51.8 77.8



#18  
Fluorene  
Concen: 0.310 ng  
RT: 15.510 min Scan# 1553  
Delta R.T. -0.013 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

Tgt Ion:166 Resp: 14578  
Ion Ratio Lower Upper  
166 100  
165 96.6 79.0 118.4  
167 12.9 10.6 16.0

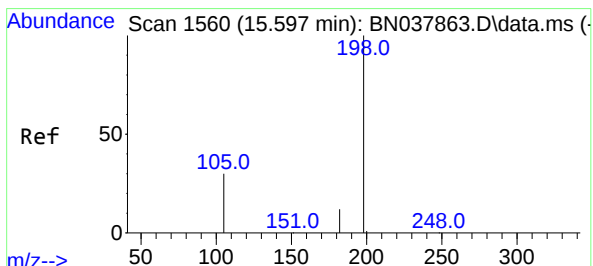
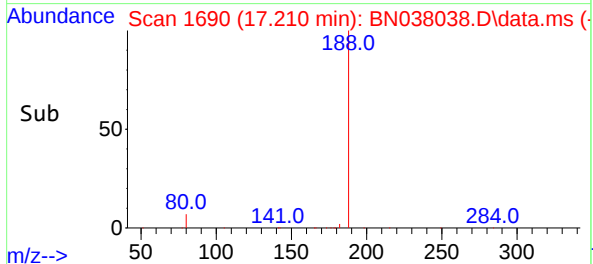
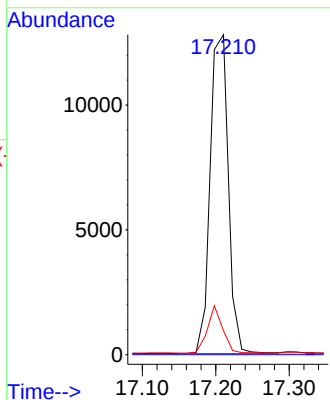
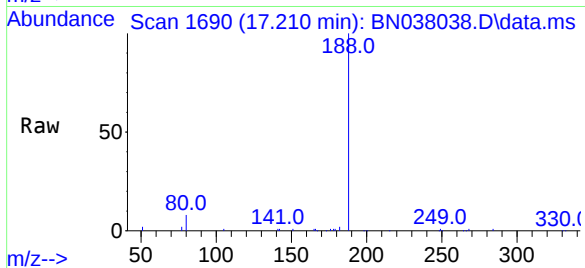




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 17.210 min Scan# 11  
Delta R.T. -0.013 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

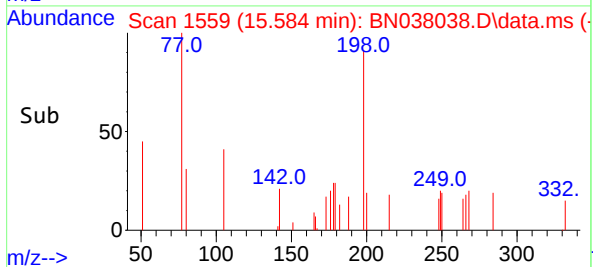
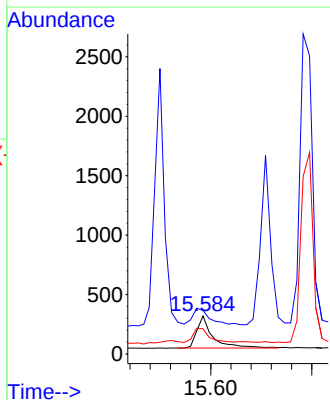
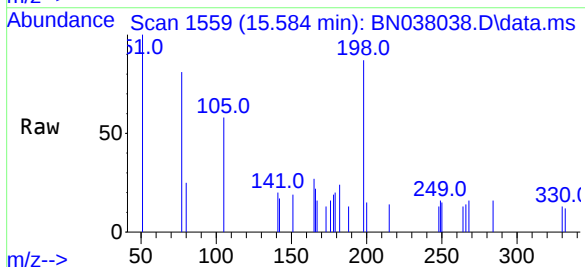
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

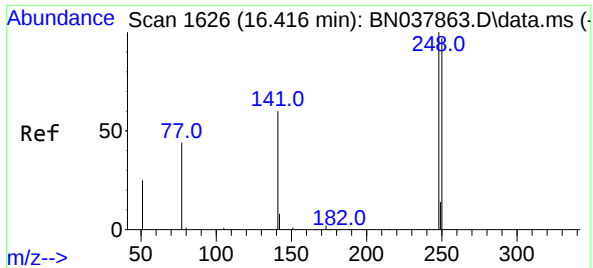
Tgt Ion:188 Resp: 21952  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 7.5 7.6 11.4#



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.283 ng  
RT: 15.584 min Scan# 1559  
Delta R.T. -0.013 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

Tgt Ion:198 Resp: 600  
Ion Ratio Lower Upper  
198 100  
51 114.7 59.1 88.7#  
105 66.8 41.3 61.9#

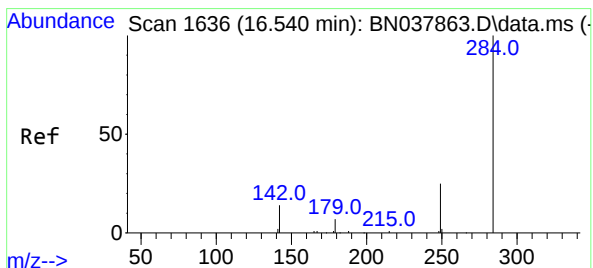
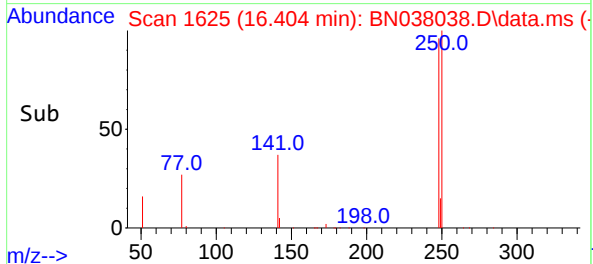
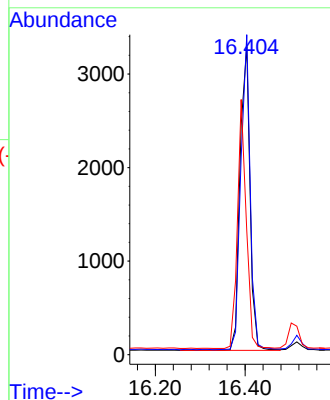
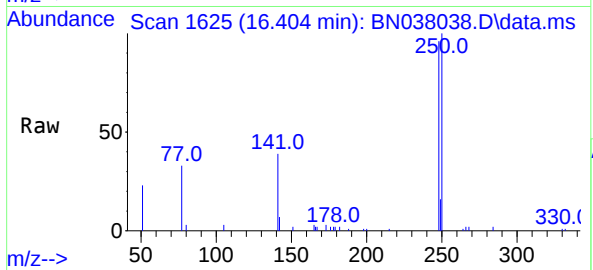




#21  
4-Bromophenyl-phenylether  
Concen: 0.347 ng  
RT: 16.404 min Scan# 1634  
Delta R.T. -0.013 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

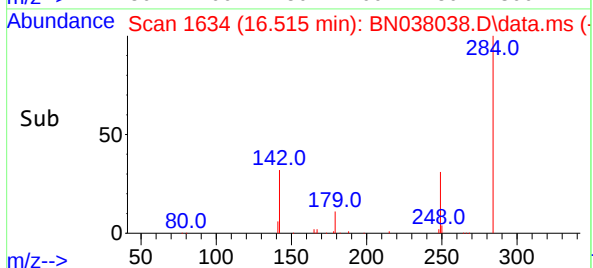
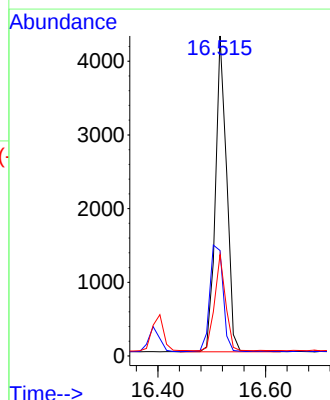
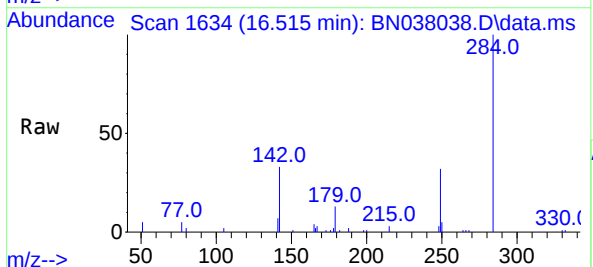
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

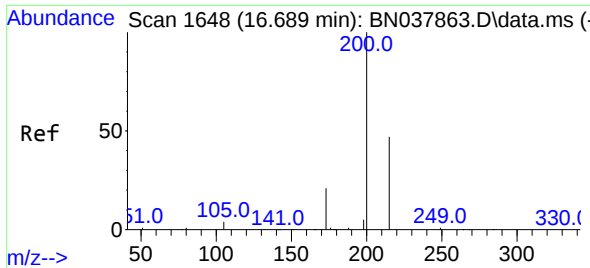
Tgt Ion:248 Resp: 4968  
Ion Ratio Lower Upper  
248 100  
250 103.9 77.6 116.4  
141 40.3 48.8 73.2#



#22  
Hexachlorobenzene  
Concen: 0.356 ng  
RT: 16.515 min Scan# 1634  
Delta R.T. -0.025 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

Tgt Ion:284 Resp: 6169  
Ion Ratio Lower Upper  
284 100  
142 40.1 30.9 46.3  
249 30.0 23.9 35.9

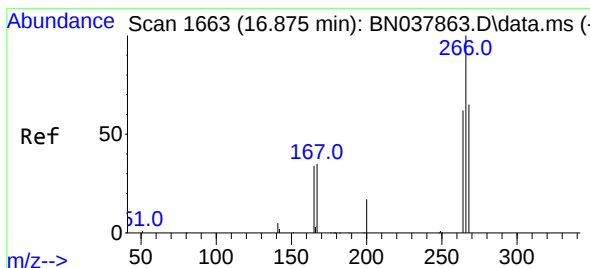
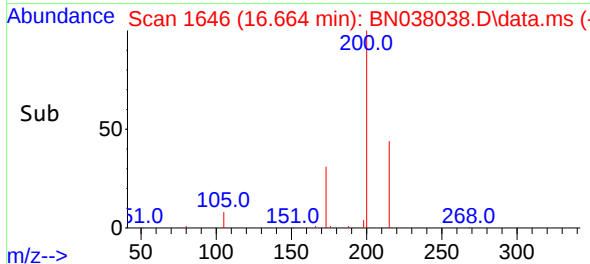
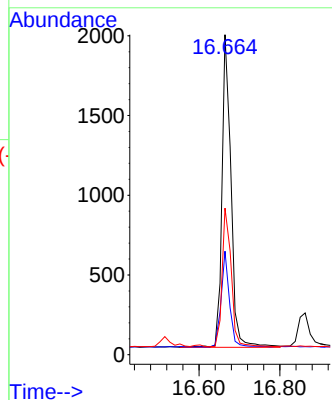
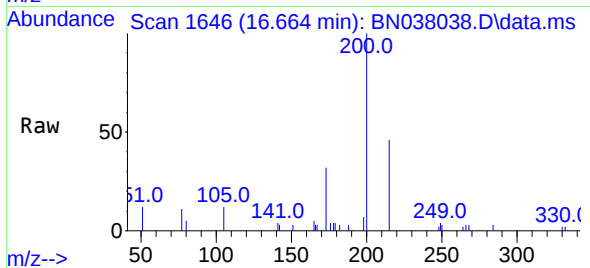




#23  
Atrazine  
Concen: 0.278 ng  
RT: 16.664 min Scan# 1646  
Delta R.T. -0.025 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

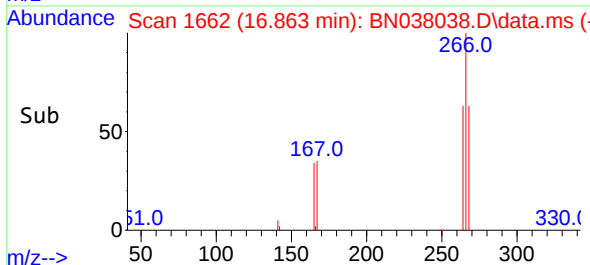
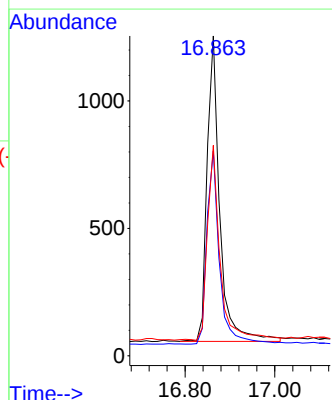
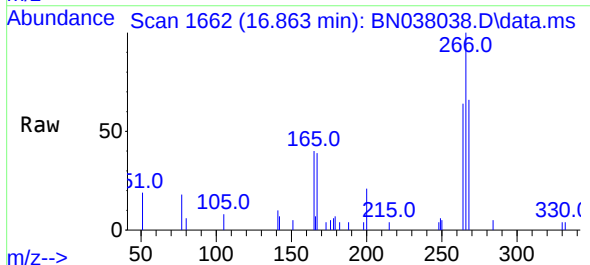
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BNA\_N  
ClientSampleId :  
PB169904BSD

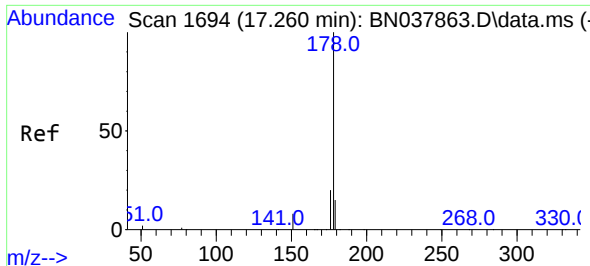
Tgt Ion:200 Resp: 3032  
Ion Ratio Lower Upper  
200 100  
173 32.3 18.3 27.5#  
215 45.8 38.6 58.0



#24  
Pentachlorophenol  
Concen: 0.394 ng  
RT: 16.863 min Scan# 1662  
Delta R.T. -0.012 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

Tgt Ion:266 Resp: 2342  
Ion Ratio Lower Upper  
266 100  
264 62.8 50.9 76.3  
268 63.9 54.3 81.5

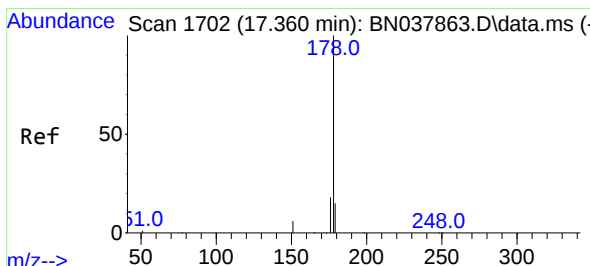
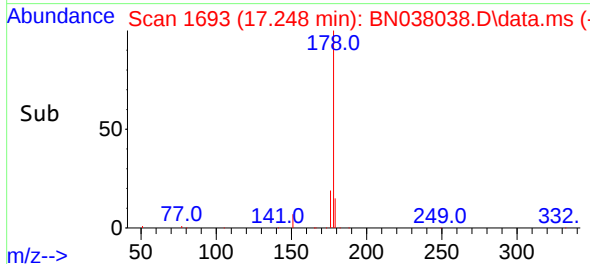
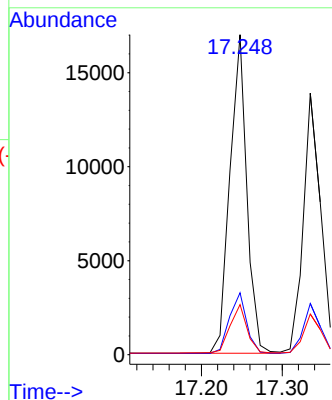
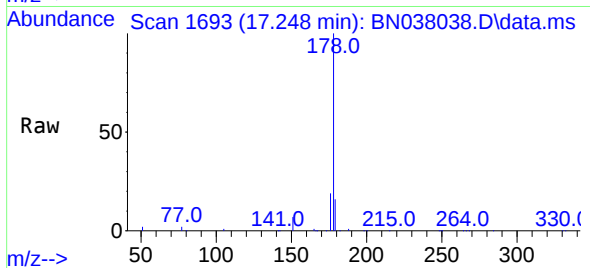




#25  
Phenanthrene  
Concen: 0.341 ng  
RT: 17.248 min Scan# 1  
Delta R.T. -0.013 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

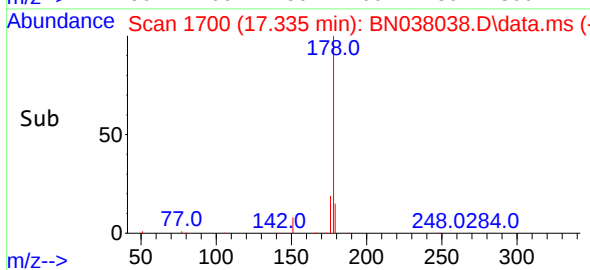
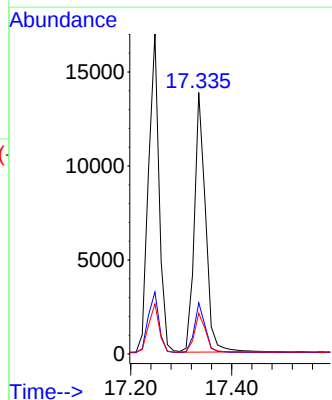
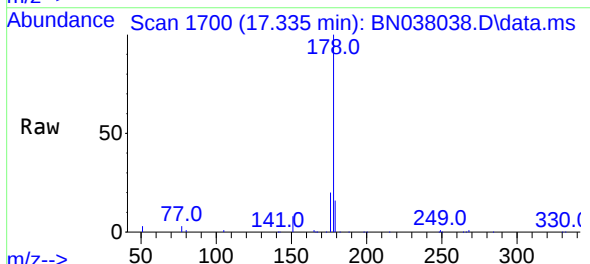
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

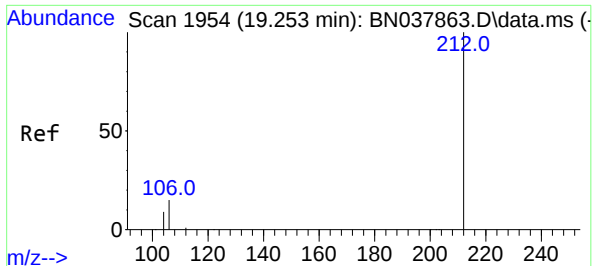
Tgt Ion:178 Resp: 24612  
Ion Ratio Lower Upper  
178 100  
176 19.5 15.7 23.5  
179 15.4 12.3 18.5



#26  
Anthracene  
Concen: 0.340 ng  
RT: 17.335 min Scan# 1700  
Delta R.T. -0.025 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

Tgt Ion:178 Resp: 21292  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.0 22.4  
179 15.2 12.3 18.5

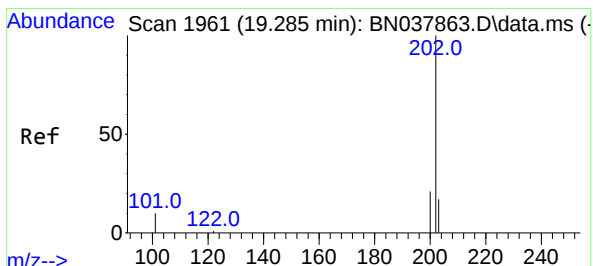
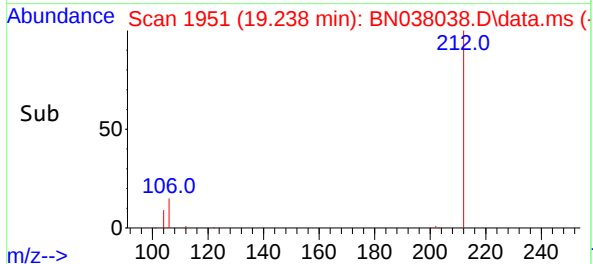
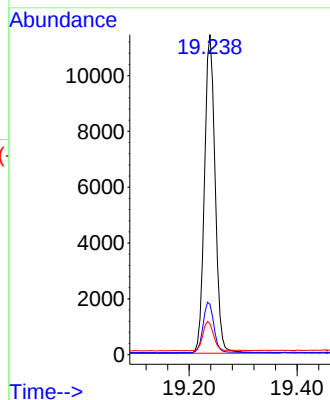
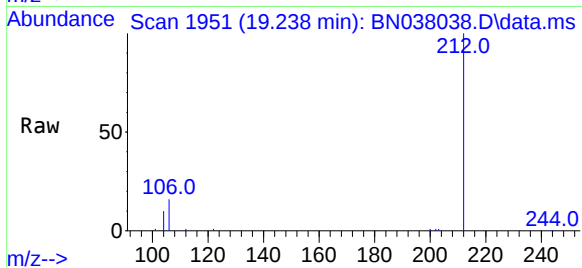




#27  
Fluoranthene-d10  
Concen: 0.284 ng  
RT: 19.238 min Scan# 1951  
Delta R.T. -0.014 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

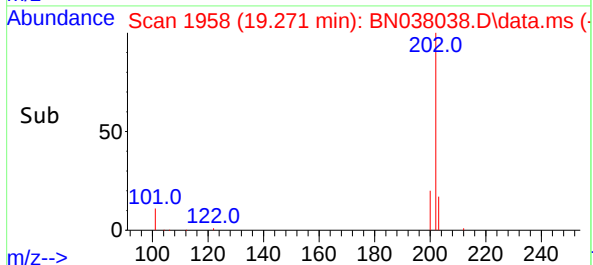
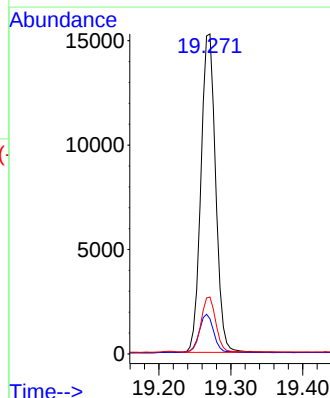
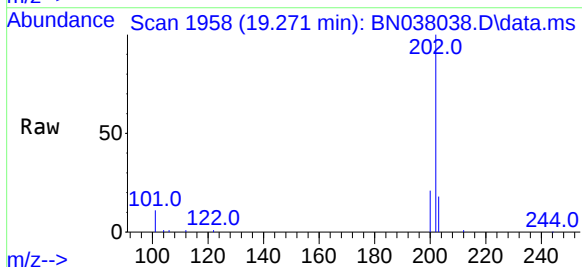
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

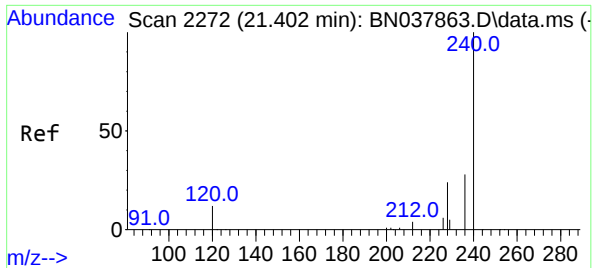
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 16.2  | 12.6  | 19.0  |
| 104     | 9.3   | 7.4   | 11.0  |



#28  
Fluoranthene  
Concen: 0.273 ng  
RT: 19.271 min Scan# 1958  
Delta R.T. -0.014 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 12.3  | 9.3   | 13.9  |
| 203     | 17.1  | 13.6  | 20.4  |

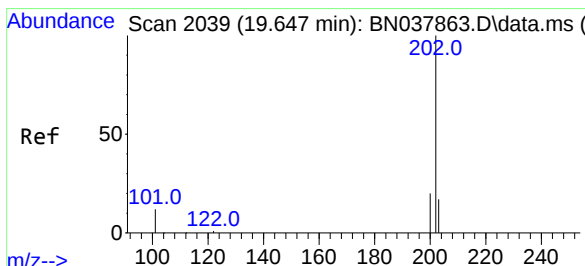
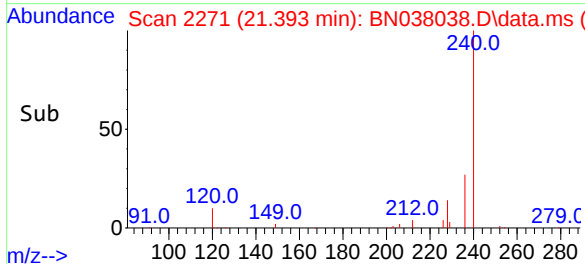
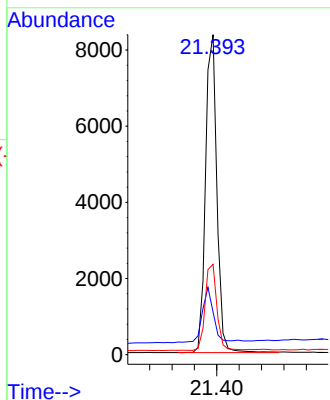
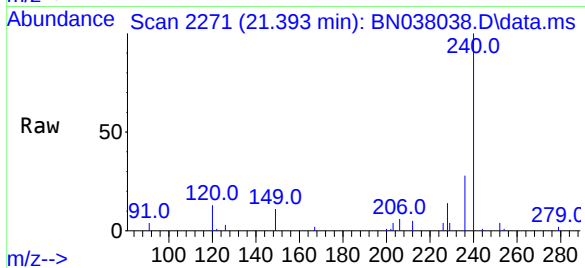




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.393 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

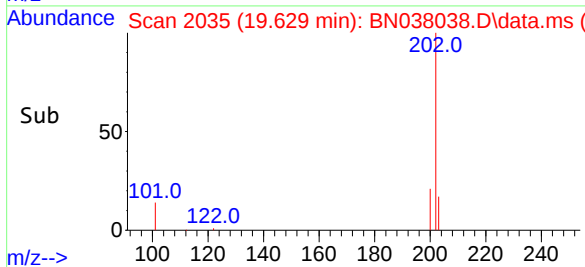
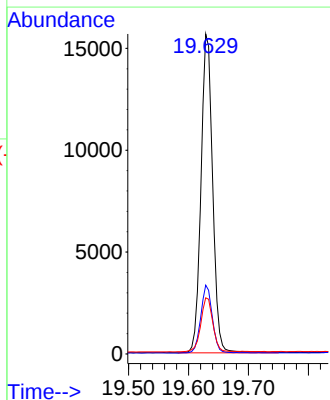
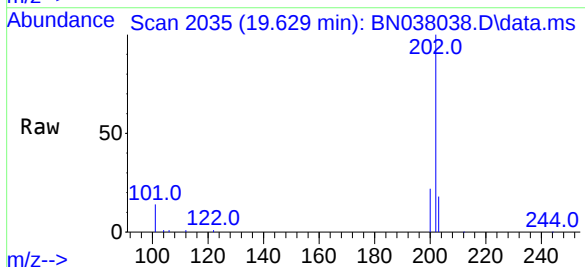
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

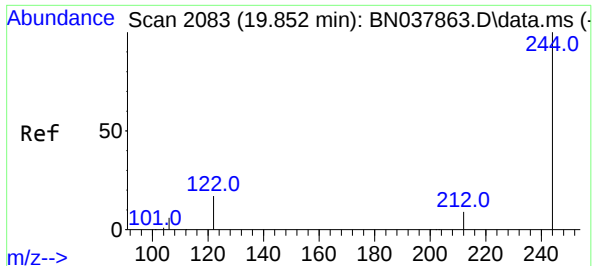
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 240     | 100   |       |       |
| 120     | 13.3  | 11.4  | 17.2  |
| 236     | 28.2  | 23.0  | 34.6  |



#30  
Pyrene  
Concen: 0.457 ng  
RT: 19.629 min Scan# 2035  
Delta R.T. -0.019 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 200     | 21.0  | 16.7  | 25.1  |
| 203     | 17.6  | 14.2  | 21.4  |

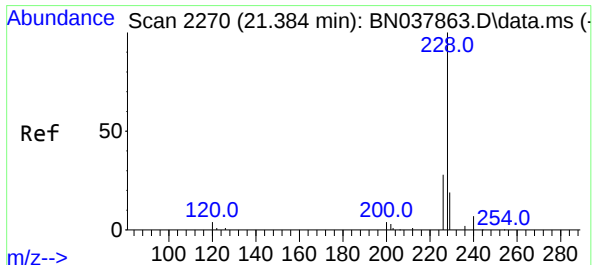
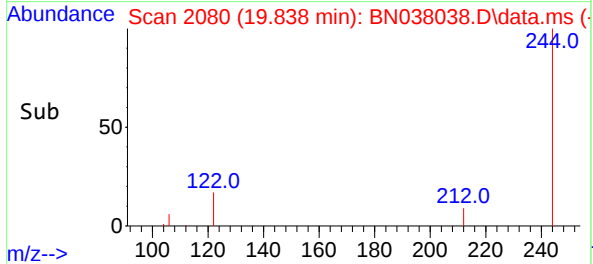
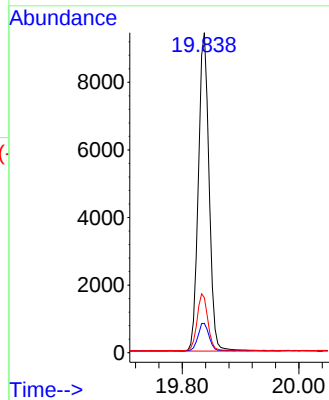
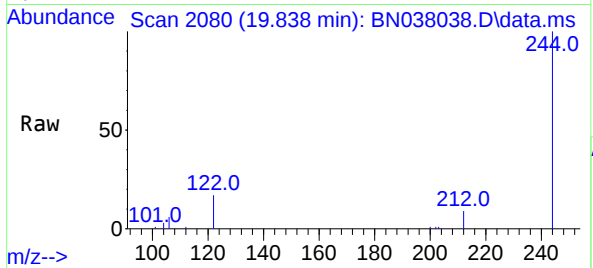




#31  
Terphenyl-d14  
Concen: 0.513 ng  
RT: 19.838 min Scan# 2080  
Delta R.T. -0.014 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

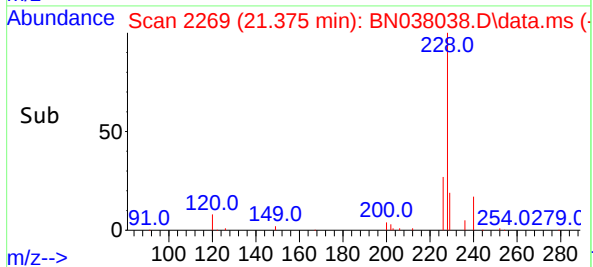
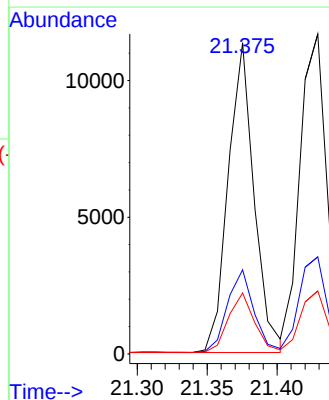
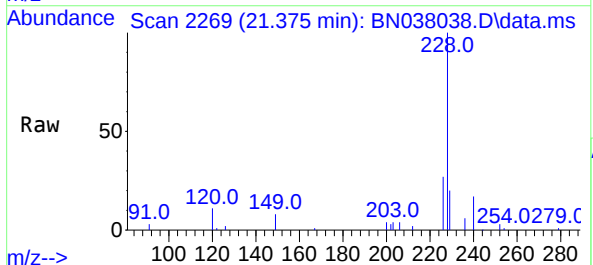
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

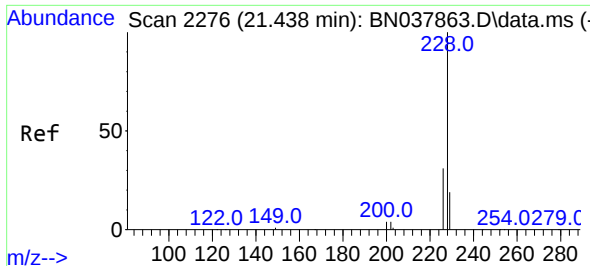
Tgt Ion:244 Resp: 11981  
Ion Ratio Lower Upper  
244 100  
212 9.1 7.6 11.4  
122 17.2 13.9 20.9



#32  
Benzo(a)anthracene  
Concen: 0.357 ng  
RT: 21.375 min Scan# 2269  
Delta R.T. -0.009 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

Tgt Ion:228 Resp: 14611  
Ion Ratio Lower Upper  
228 100  
226 27.0 22.6 33.8  
229 19.6 15.6 23.4

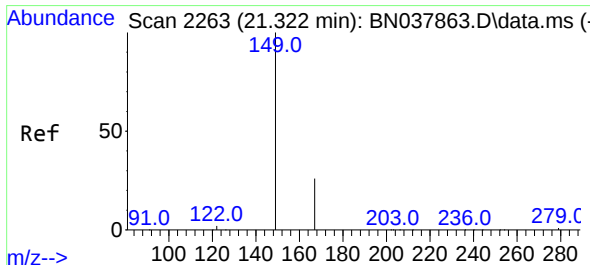
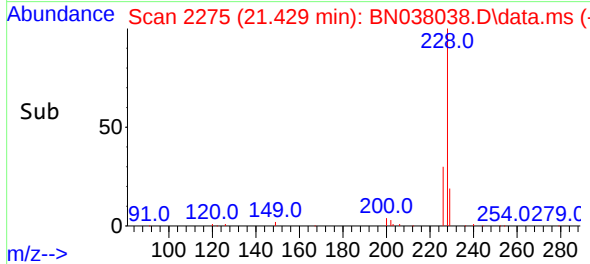
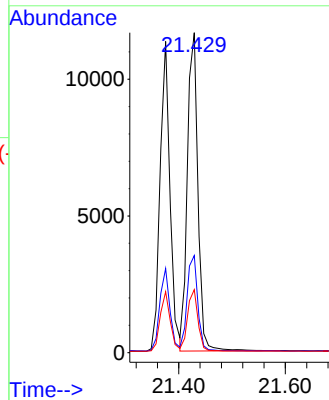
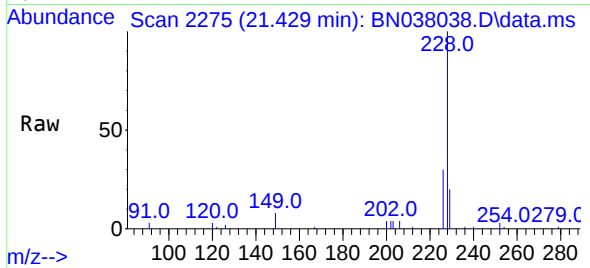




#33  
Chrysene  
Concen: 0.360 ng  
RT: 21.429 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

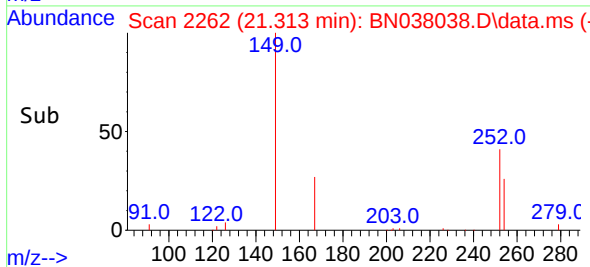
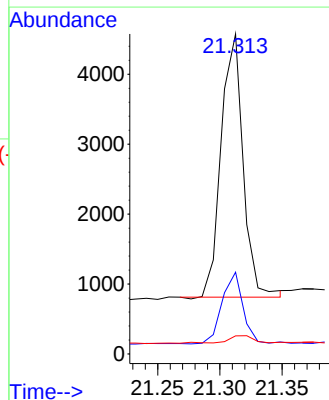
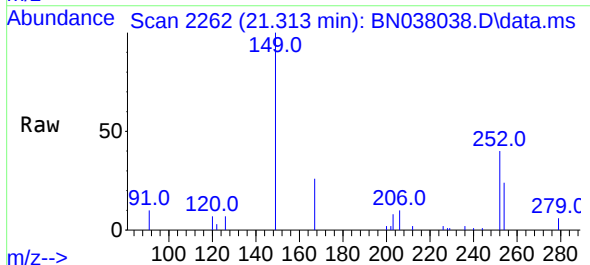
Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

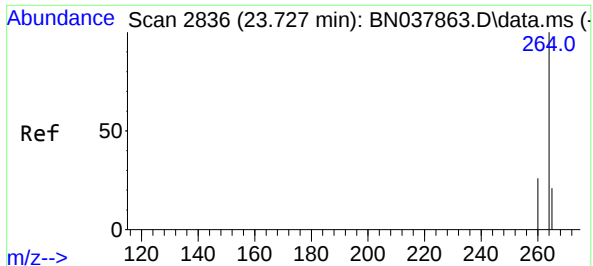
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 228   | Resp: | 15951 |
| Ion Ratio | Lower | Upper |       |
| 228       | 100   |       |       |
| 226       | 30.3  | 24.6  | 37.0  |
| 229       | 19.7  | 15.6  | 23.4  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.286 ng  
RT: 21.313 min Scan# 2262  
Delta R.T. -0.009 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

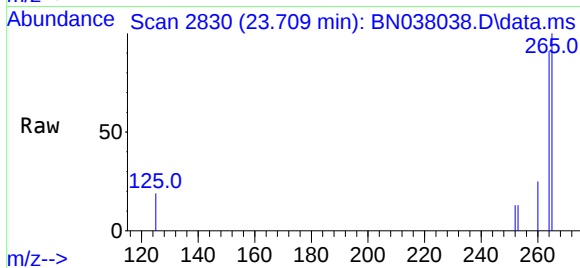
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 4629 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 26.7  | 20.4  | 30.6 |
| 279       | 3.7   | 2.4   | 3.6# |



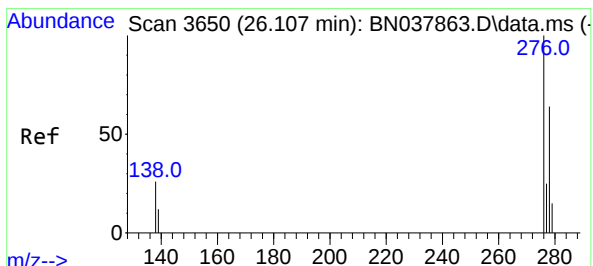
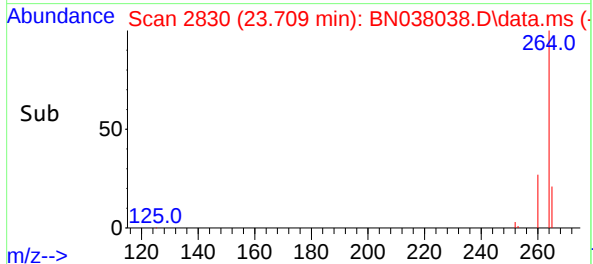
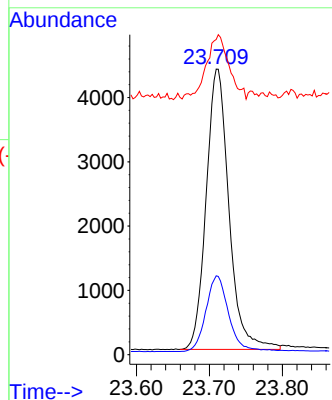


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.709 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

Instrument :  
BNA\_N  
ClientSampleId :  
PB169904BSD

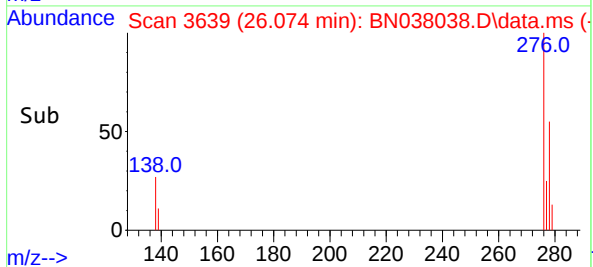
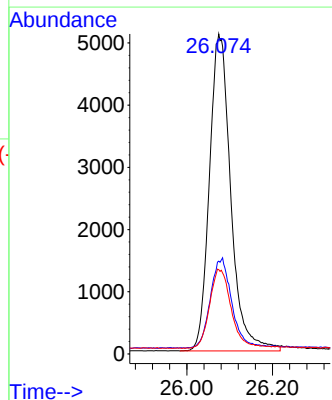
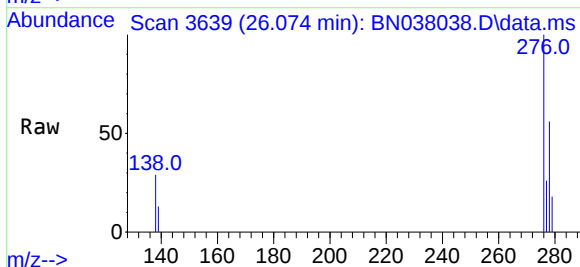


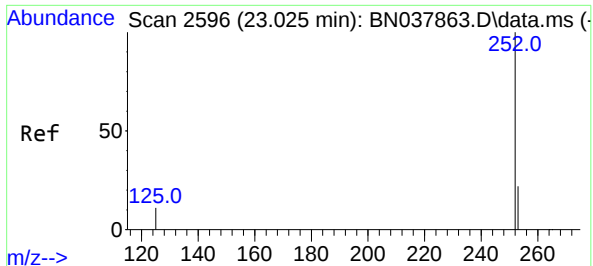
Tgt Ion:264 Resp: 9473  
Ion Ratio Lower Upper  
264 100  
260 27.6 21.5 32.3  
265 110.4 53.8 80.6#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.408 ng  
RT: 26.074 min Scan# 3639  
Delta R.T. -0.032 min  
Lab File: BN038038.D  
Acq: 07 Oct 2025 09:11

Tgt Ion:276 Resp: 17647  
Ion Ratio Lower Upper  
276 100  
138 28.3 21.4 32.0  
277 25.1 20.3 30.5





#37

Benzo(b)fluoranthene

Concen: 0.357 ng

RT: 23.008 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN038038.D

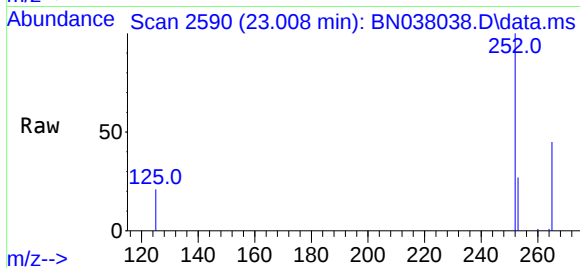
Acq: 07 Oct 2025 09:11

Instrument :

BNA\_N

ClientSampleId :

PB169904BSD



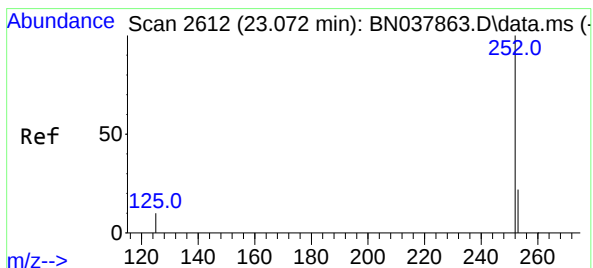
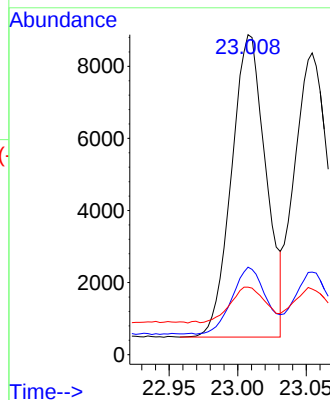
Tgt Ion:252 Resp: 14576

Ion Ratio Lower Upper

252 100

253 27.4 19.4 29.0

125 21.1 13.0 19.4#



#38

Benzo(k)fluoranthene

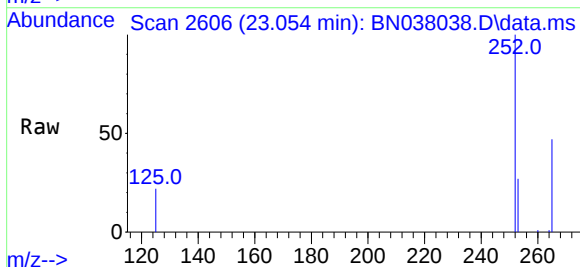
Concen: 0.349 ng

RT: 23.054 min Scan# 2606

Delta R.T. -0.018 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11



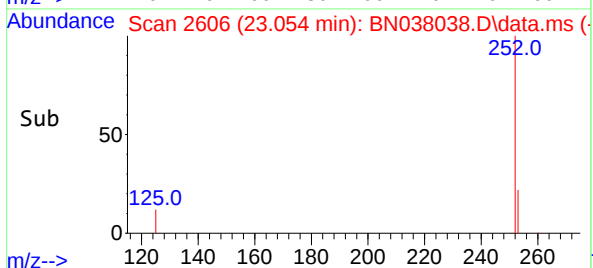
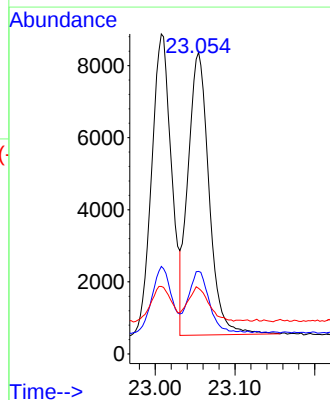
Tgt Ion:252 Resp: 14328

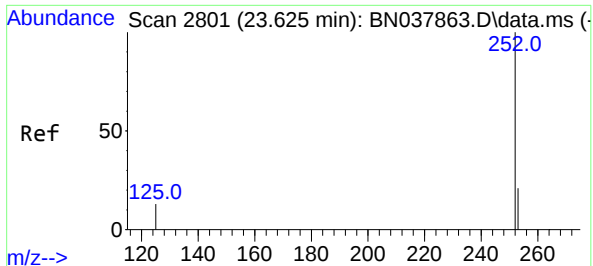
Ion Ratio Lower Upper

252 100

253 27.4 19.5 29.3

125 21.7 13.0 19.4#





#39

Benzo(a)pyrene

Concen: 0.375 ng

RT: 23.607 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

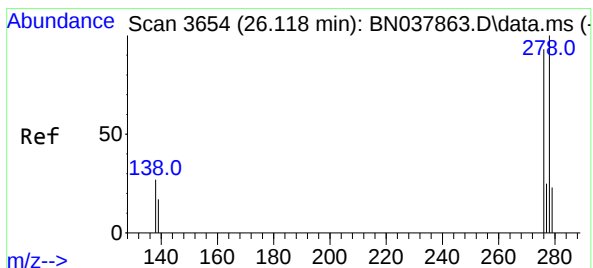
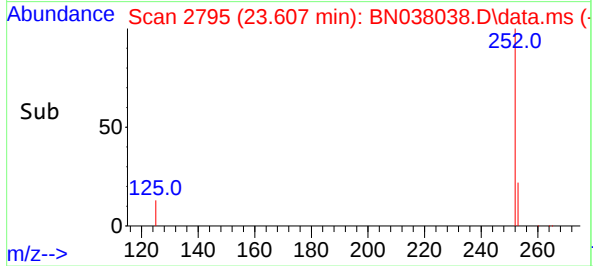
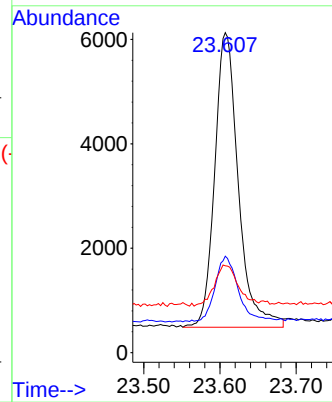
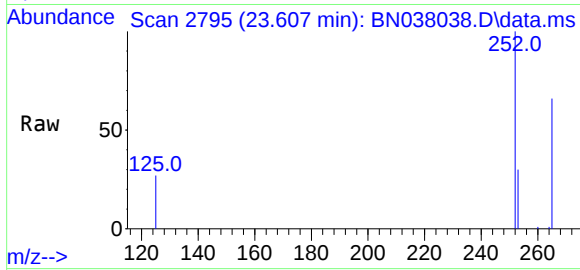
Instrument :

BNA\_N

ClientSampleId :

PB169904BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 12131 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 30.1  | 20.6  | 30.8  |
| 125       | 27.1  | 16.7  | 25.1# |



#40

Dibenzo(a,h)anthracene

Concen: 0.409 ng

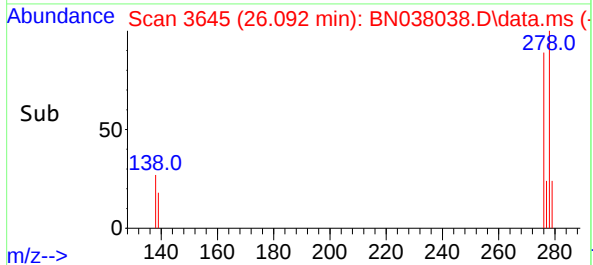
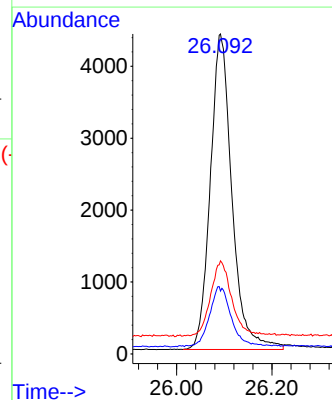
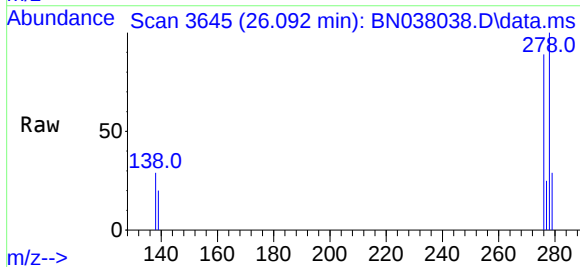
RT: 26.092 min Scan# 3645

Delta R.T. -0.026 min

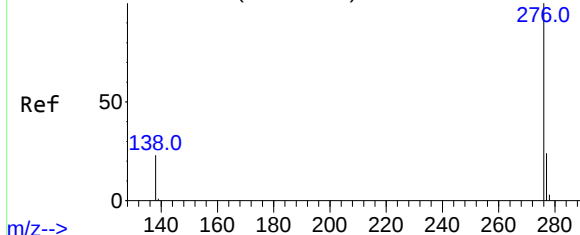
Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 13828 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 19.7  | 15.4  | 23.2  |
| 279       | 29.1  | 20.8  | 31.2  |



Abundance Scan 3897 (26.829 min): BN037863.D\data.ms (-



#41

Benzo(g,h,i)perylene

Concen: 0.436 ng

RT: 26.794 min Scan# 3885

Delta R.T. -0.035 min

Lab File: BN038038.D

Acq: 07 Oct 2025 09:11

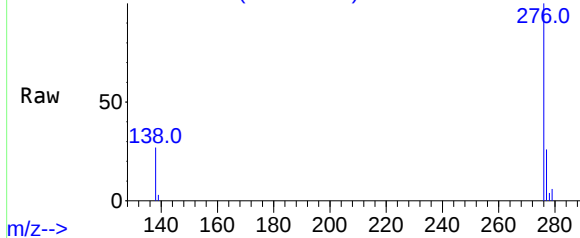
Instrument :

BNA\_N

ClientSampleId :

PB169904BSD

Abundance Scan 3885 (26.794 min): BN038038.D\data.ms (-



Tgt Ion: 276 Resp: 15498

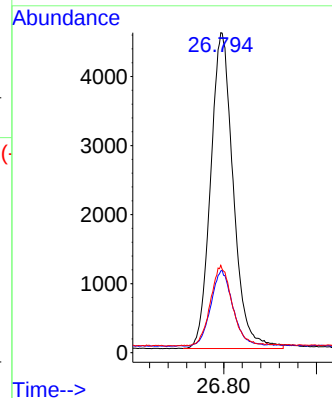
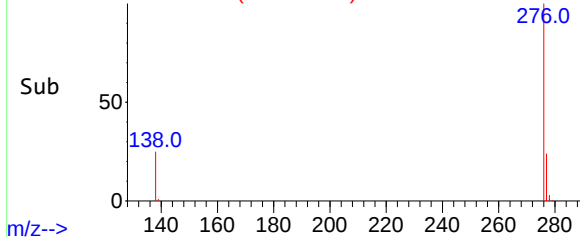
Ion Ratio Lower Upper

276 100

277 25.6 20.2 30.4

138 27.3 19.8 29.8

Abundance Scan 3885 (26.794 min): BN038038.D\data.ms (-





Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN092325 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID | File ID | Parameter | Review By | Review On | Supervised By | Supervised On | Reason |
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|
|-----------|---------|-----------|-----------|-----------|---------------|---------------|--------|

## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN100625 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID  | File ID    | Parameter            | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|------------|------------|----------------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| SSTDCCC0.4 | BN038020.D | Benzo(b)fluoranthene | Rahul     | 10/7/2025<br>10:19:04 AM | Jagrut        | 10/7/2025<br>11:02:42 AM | Peak Integrated by Software |
| SSTDCCC0.4 | BN038022.D | Benzo(b)fluoranthene | Rahul     | 10/7/2025<br>10:19:06 AM | Jagrut        | 10/7/2025<br>11:02:45 AM | Peak Integrated by Software |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN092325**

| Review By                | Rahul    | Review On                                        | 9/24/2025 8:51:58 AM |                      |          |
|--------------------------|----------|--------------------------------------------------|----------------------|----------------------|----------|
| Supervise By             | Jagrut   | Supervise On                                     | 9/24/2025 9:44:29 AM |                      |          |
| SubDirectory             | BN092325 | HP Acquire Method                                | BNA_N                | HP Processing Method | bn092325 |
| 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    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | DFTPP       | BN037860.D     | 23 Sep 2025 11:33 | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | BN037861.D     | 23 Sep 2025 12:13 | RC/JU    | Ok     |
| 3   | SSTDICC0.2  | BN037862.D     | 23 Sep 2025 12:49 | RC/JU    | Ok     |
| 4   | SSTDICCC0.4 | BN037863.D     | 23 Sep 2025 13:25 | RC/JU    | Ok     |
| 5   | SSTDICC0.8  | BN037864.D     | 23 Sep 2025 14:02 | RC/JU    | Ok     |
| 6   | SSTDICC1.6  | BN037865.D     | 23 Sep 2025 14:38 | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | BN037866.D     | 23 Sep 2025 15:15 | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | BN037867.D     | 23 Sep 2025 15:51 | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | BN037868.D     | 23 Sep 2025 16:28 | RC/JU    | Ok     |
| 10  | PB169743BL  | BN037869.D     | 23 Sep 2025 17:42 | RC/JU    | Not Ok |

M : Manual Integration

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN100625**

|                          |                                                  |                      |                      |
|--------------------------|--------------------------------------------------|----------------------|----------------------|
| Review By                | rahul                                            | Review On            | 10/7/2025 2:42:38 PM |
| Supervise By             | Jagrut                                           | Supervise On         | 10/7/2025 5:49:36 PM |
| SubDirectory             | BN100625                                         | HP Acquire Method    | BNA_N                |
|                          |                                                  | HP Processing Method | bn092325             |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                      |                      |
| Tune/Reschk              | SP6875                                           |                      |                      |
| 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       | BN038003.D     | 06 Oct 2025 10:27 | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | BN038004.D     | 06 Oct 2025 11:06 | RC/JU    | Ok     |
| 3   | PB169903BL  | BN038005.D     | 06 Oct 2025 11:55 | RC/JU    | Ok     |
| 4   | Q3194-02    | BN038006.D     | 06 Oct 2025 12:31 | RC/JU    | Ok     |
| 5   | Q3194-03MS  | BN038007.D     | 06 Oct 2025 13:44 | RC/JU    | Ok     |
| 6   | Q3194-04MSD | BN038008.D     | 06 Oct 2025 14:20 | RC/JU    | Ok,M   |
| 7   | Q3194-01    | BN038009.D     | 06 Oct 2025 14:56 | RC/JU    | Ok     |
| 8   | Q3194-05    | BN038010.D     | 06 Oct 2025 15:33 | RC/JU    | Ok     |
| 9   | Q3194-06    | BN038011.D     | 06 Oct 2025 16:09 | RC/JU    | Ok     |
| 10  | Q3194-07    | BN038012.D     | 06 Oct 2025 16:46 | RC/JU    | Ok     |
| 11  | Q3194-08    | BN038013.D     | 06 Oct 2025 17:22 | RC/JU    | Ok     |
| 12  | Q3194-09    | BN038014.D     | 06 Oct 2025 17:59 | RC/JU    | Ok     |
| 13  | Q3194-10    | BN038015.D     | 06 Oct 2025 18:35 | RC/JU    | Ok     |
| 14  | Q3194-11    | BN038016.D     | 06 Oct 2025 19:12 | RC/JU    | Ok     |
| 15  | Q3194-12    | BN038017.D     | 06 Oct 2025 19:48 | RC/JU    | Ok     |
| 16  | Q3194-13    | BN038018.D     | 06 Oct 2025 20:24 | RC/JU    | Ok     |
| 17  | PB169903BS  | BN038019.D     | 06 Oct 2025 21:01 | RC/JU    | Ok     |
| 18  | SSTDCCC0.4  | BN038020.D     | 06 Oct 2025 21:37 | RC/JU    | Ok,M   |
| 19  | DFTPP       | BN038021.D     | 06 Oct 2025 22:13 | RC/JU    | Ok     |
| 20  | SSTDCCC0.4  | BN038022.D     | 06 Oct 2025 23:32 | RC/JU    | Ok,M   |
| 21  | PB169904BL  | BN038023.D     | 07 Oct 2025 00:08 | RC/JU    | Ok     |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN100625**

| Review By                | rahul    | Review On                                        | 10/7/2025 2:42:38 PM |                      |          |
|--------------------------|----------|--------------------------------------------------|----------------------|----------------------|----------|
| Supervise By             | Jagrut   | Supervise On                                     | 10/7/2025 5:49:36 PM |                      |          |
| SubDirectory             | BN100625 | HP Acquire Method                                | BNA_N                | HP Processing Method | bn092325 |
| STD. NAME                |          | STD REF.#                                        |                      |                      |          |
| Tune/Reschk              |          | SP6875                                           |                      |                      |          |
| 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 | Q3194-14    | BN038024.D | 07 Oct 2025 00:44 | RC/JU | Ok       |
| 23 | Q3194-15    | BN038025.D | 07 Oct 2025 01:21 | RC/JU | Ok       |
| 24 | Q3194-16    | BN038026.D | 07 Oct 2025 01:57 | RC/JU | Ok       |
| 25 | Q3194-17    | BN038027.D | 07 Oct 2025 02:33 | RC/JU | Ok       |
| 26 | Q3213-02    | BN038028.D | 07 Oct 2025 03:09 | RC/JU | Ok       |
| 27 | Q3213-03    | BN038029.D | 07 Oct 2025 03:46 | RC/JU | Ok       |
| 28 | Q3213-05    | BN038030.D | 07 Oct 2025 04:22 | RC/JU | Ok       |
| 29 | Q3213-06    | BN038031.D | 07 Oct 2025 04:58 | RC/JU | Ok       |
| 30 | Q3213-08    | BN038032.D | 07 Oct 2025 05:34 | RC/JU | Ok       |
| 31 | Q3213-10    | BN038033.D | 07 Oct 2025 06:10 | RC/JU | Ok       |
| 32 | Q3235-01    | BN038034.D | 07 Oct 2025 06:46 | RC/JU | Dilution |
| 33 | Q3235-02    | BN038035.D | 07 Oct 2025 07:22 | RC/JU | Ok       |
| 34 | Q3235-03    | BN038036.D | 07 Oct 2025 07:58 | RC/JU | Ok       |
| 35 | PB169904BS  | BN038037.D | 07 Oct 2025 08:35 | RC/JU | Ok       |
| 36 | PB169904BSD | BN038038.D | 07 Oct 2025 09:11 | RC/JU | Ok       |
| 37 | SSTDCCC0.4  | BN038039.D | 07 Oct 2025 09:47 | RC/JU | Ok       |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN092325**

|              |          |                   |                      |                      |          |
|--------------|----------|-------------------|----------------------|----------------------|----------|
| Review By    | Rahul    | Review On         | 9/24/2025 8:51:58 AM |                      |          |
| Supervise By | Jagrut   | Supervise On      | 9/24/2025 9:44:29 AM |                      |          |
| SubDirectory | BN092325 | HP Acquire Method | BNA_N                | HP Processing Method | bn092325 |

| 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       | BN037860.D     | 23 Sep 2025 11:33 |                                                    | RC/JU    | Ok     |
| 2   | SSTDICC0.1  | SSTDICC0.1  | BN037861.D     | 23 Sep 2025 12:13 |                                                    | RC/JU    | Ok     |
| 3   | SSTDICC0.2  | SSTDICC0.2  | BN037862.D     | 23 Sep 2025 12:49 |                                                    | RC/JU    | Ok     |
| 4   | SSTDICCC0.4 | SSTDICCC0.4 | BN037863.D     | 23 Sep 2025 13:25 | Compound #20 kept on QR                            | RC/JU    | Ok     |
| 5   | SSTDICC0.8  | SSTDICC0.8  | BN037864.D     | 23 Sep 2025 14:02 |                                                    | RC/JU    | Ok     |
| 6   | SSTDICC1.6  | SSTDICC1.6  | BN037865.D     | 23 Sep 2025 14:38 |                                                    | RC/JU    | Ok     |
| 7   | SSTDICC3.2  | SSTDICC3.2  | BN037866.D     | 23 Sep 2025 15:15 |                                                    | RC/JU    | Ok     |
| 8   | SSTDICC5.0  | SSTDICC5.0  | BN037867.D     | 23 Sep 2025 15:51 | Compound#14,24 removed from 5.0 ppm                | RC/JU    | Ok     |
| 9   | SSTDICV0.4  | ICVBN092325 | BN037868.D     | 23 Sep 2025 16:28 |                                                    | RC/JU    | Ok     |
| 10  | PB169743BL  | PB169743BL  | BN037869.D     | 23 Sep 2025 17:42 | END CCC missing, Analyzed for Contamination check. | RC/JU    | Not Ok |

M : Manual Integration

Instrument ID: BNA\_N

### Daily Analysis Runlog For Sequence/QC Batch ID # BN100625

|              |          |                   |                      |                      |          |
|--------------|----------|-------------------|----------------------|----------------------|----------|
| Review By    | rahul    | Review On         | 10/7/2025 2:42:38 PM |                      |          |
| Supervise By | Jagrut   | Supervise On      | 10/7/2025 5:49:36 PM |                      |          |
| SubDirectory | BN100625 | HP Acquire Method | BNA_N                | HP Processing Method | bn092325 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6875                                           |
| 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              | BN038003.D     | 06 Oct 2025 10:27 |         | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | SSTDCCC0.4         | BN038004.D     | 06 Oct 2025 11:06 |         | RC/JU    | Ok     |
| 3   | PB169903BL  | PB169903BL         | BN038005.D     | 06 Oct 2025 11:55 |         | RC/JU    | Ok     |
| 4   | Q3194-02    | RW11-MW01S-202509  | BN038006.D     | 06 Oct 2025 12:31 |         | RC/JU    | Ok     |
| 5   | Q3194-03MS  | RW11-MW01S-202509  | BN038007.D     | 06 Oct 2025 13:44 |         | RC/JU    | Ok     |
| 6   | Q3194-04MSD | RW11-MW01S-202509  | BN038008.D     | 06 Oct 2025 14:20 |         | RC/JU    | Ok,M   |
| 7   | Q3194-01    | TT189D1-20250922   | BN038009.D     | 06 Oct 2025 14:56 |         | RC/JU    | Ok     |
| 8   | Q3194-05    | TT150S1-20250922   | BN038010.D     | 06 Oct 2025 15:33 |         | RC/JU    | Ok     |
| 9   | Q3194-06    | RW8-MW01D2-202509  | BN038011.D     | 06 Oct 2025 16:09 |         | RC/JU    | Ok     |
| 10  | Q3194-07    | RW8-MW01D3-202509  | BN038012.D     | 06 Oct 2025 16:46 |         | RC/JU    | Ok     |
| 11  | Q3194-08    | TT188S1-20250922   | BN038013.D     | 06 Oct 2025 17:22 |         | RC/JU    | Ok     |
| 12  | Q3194-09    | TT192D2-20250922   | BN038014.D     | 06 Oct 2025 17:59 |         | RC/JU    | Ok     |
| 13  | Q3194-10    | TT192D1-20250922   | BN038015.D     | 06 Oct 2025 18:35 |         | RC/JU    | Ok     |
| 14  | Q3194-11    | DUP10-20250922     | BN038016.D     | 06 Oct 2025 19:12 |         | RC/JU    | Ok     |
| 15  | Q3194-12    | RW11-MW01I-2025092 | BN038017.D     | 06 Oct 2025 19:48 |         | RC/JU    | Ok     |
| 16  | Q3194-13    | TT163S1-20250924   | BN038018.D     | 06 Oct 2025 20:24 |         | RC/JU    | Ok     |
| 17  | PB169903BS  | PB169903BS         | BN038019.D     | 06 Oct 2025 21:01 |         | RC/JU    | Ok     |
| 18  | SSTDCCC0.4  | SSTDCCC0.4EC       | BN038020.D     | 06 Oct 2025 21:37 |         | RC/JU    | Ok,M   |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN100625**

|                          |          |                                                  |                      |                      |          |
|--------------------------|----------|--------------------------------------------------|----------------------|----------------------|----------|
| Review By                | rahul    | Review On                                        | 10/7/2025 2:42:38 PM |                      |          |
| Supervise By             | Jagrut   | Supervise On                                     | 10/7/2025 5:49:36 PM |                      |          |
| SubDirectory             | BN100625 | HP Acquire Method                                | BNA_N                | HP Processing Method | bn092325 |
| STD. NAME                |          | STD REF.#                                        |                      |                      |          |
| Tune/Reschk              |          | SP6875                                           |                      |                      |          |
| 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             |          |                                                  |                      |                      |          |

|    |             |                         |            |                   |                  |       |          |
|----|-------------|-------------------------|------------|-------------------|------------------|-------|----------|
| 19 | DFTPP       | DFTPP                   | BN038021.D | 06 Oct 2025 22:13 |                  | RC/JU | Ok       |
| 20 | SSTDCCC0.4  | SSTDCCC0.4              | BN038022.D | 06 Oct 2025 23:32 |                  | RC/JU | Ok,M     |
| 21 | PB169904BL  | PB169904BL              | BN038023.D | 07 Oct 2025 00:08 |                  | RC/JU | Ok       |
| 22 | Q3194-14    | RE139D1-20250924        | BN038024.D | 07 Oct 2025 00:44 |                  | RC/JU | Ok       |
| 23 | Q3194-15    | EB05-20250924           | BN038025.D | 07 Oct 2025 01:21 |                  | RC/JU | Ok       |
| 24 | Q3194-16    | EB06-20250924           | BN038026.D | 07 Oct 2025 01:57 |                  | RC/JU | Ok       |
| 25 | Q3194-17    | FB01-20250924           | BN038027.D | 07 Oct 2025 02:33 |                  | RC/JU | Ok       |
| 26 | Q3213-02    | VPB184-HYD-20250924     | BN038028.D | 07 Oct 2025 03:09 | Surrogate Fail   | RC/JU | Ok       |
| 27 | Q3213-03    | BP-VPB-184-GW-340-3     | BN038029.D | 07 Oct 2025 03:46 |                  | RC/JU | Ok       |
| 28 | Q3213-05    | BP-VPB-184-GW-380-3     | BN038030.D | 07 Oct 2025 04:22 |                  | RC/JU | Ok       |
| 29 | Q3213-06    | BP-VPB-184-DUP-20250924 | BN038031.D | 07 Oct 2025 04:58 |                  | RC/JU | Ok       |
| 30 | Q3213-08    | BP-VPB-184-GW-420-4     | BN038032.D | 07 Oct 2025 05:34 |                  | RC/JU | Ok       |
| 31 | Q3213-10    | BP-VPB-184-EB-20250924  | BN038033.D | 07 Oct 2025 06:10 |                  | RC/JU | Ok       |
| 32 | Q3235-01    | RW5-SP100-20250926      | BN038034.D | 07 Oct 2025 06:46 | Need 2X Dilution | RC/JU | Dilution |
| 33 | Q3235-02    | RW5-SP201-20250926      | BN038035.D | 07 Oct 2025 07:22 |                  | RC/JU | Ok       |
| 34 | Q3235-03    | RW5-SP303-20250926      | BN038036.D | 07 Oct 2025 07:58 |                  | RC/JU | Ok       |
| 35 | PB169904BS  | PB169904BS              | BN038037.D | 07 Oct 2025 08:35 |                  | RC/JU | Ok       |
| 36 | PB169904BSD | PB169904BSD             | BN038038.D | 07 Oct 2025 09:11 |                  | RC/JU | Ok       |
| 37 | SSTDCCC0.4  | SSTDCCC0.4EC            | BN038039.D | 07 Oct 2025 09:47 |                  | RC/JU | Ok       |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN100625**

| Review By                | rahul    | Review On                                        | 10/7/2025 2:42:38 PM |                      |          |
|--------------------------|----------|--------------------------------------------------|----------------------|----------------------|----------|
| Supervise By             | Jagrut   | Supervise On                                     | 10/7/2025 5:49:36 PM |                      |          |
| SubDirectory             | BN100625 | HP Acquire Method                                | BNA_N                | HP Processing Method | bn092325 |
| STD. NAME                |          | STD REF.#                                        |                      |                      |          |
| Tune/Reschk              |          | SP6875                                           |                      |                      |          |
| 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             |          |                                                  |                      |                      |          |

M : Manual Integration

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**SOP ID:** M3510C,3580A-Extraction SVOC-21

**Clean Up SOP #:** N/A **Extraction Start Date :** 09/26/2025

**Matrix :** Water **Extraction Start Time :** 13:15

**Weigh By:** N/A **Extraction By:** RJ **Extraction End Date :** 09/26/2025

**Balance check:** N/A **Filter By:** RJ **Extraction End Time :** 18:15

**Balance ID:** N/A **pH Meter ID:** N/A **Concentration By:** EH

**pH Strip Lot#:** E3953 **Hood ID:** 4,6,7 **Supervisor By :** ritesh

**Extraction Method:** ☒ Separatory Funnel ☐ Continous Liquid/Liquid ☐ Sonication ☐ Waste Dilution ☐ 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             | SP6870              |
| 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            | E3973      |
| Baked Na2SO4       | N/A            | EP2646     |
| H2SO4 1:1          | N/A            | EP2610     |
| 10N NaoH           | N/A            | EP2609     |
| 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:**

PH Adjusted TO <2 with 1:1 H2SO4 & >11with 10N NAOH ,1.5ML Vial Lot #2210443.

**KD Bath ID:** WATER BATH-1,2 **Envap ID:** NEVAP-02

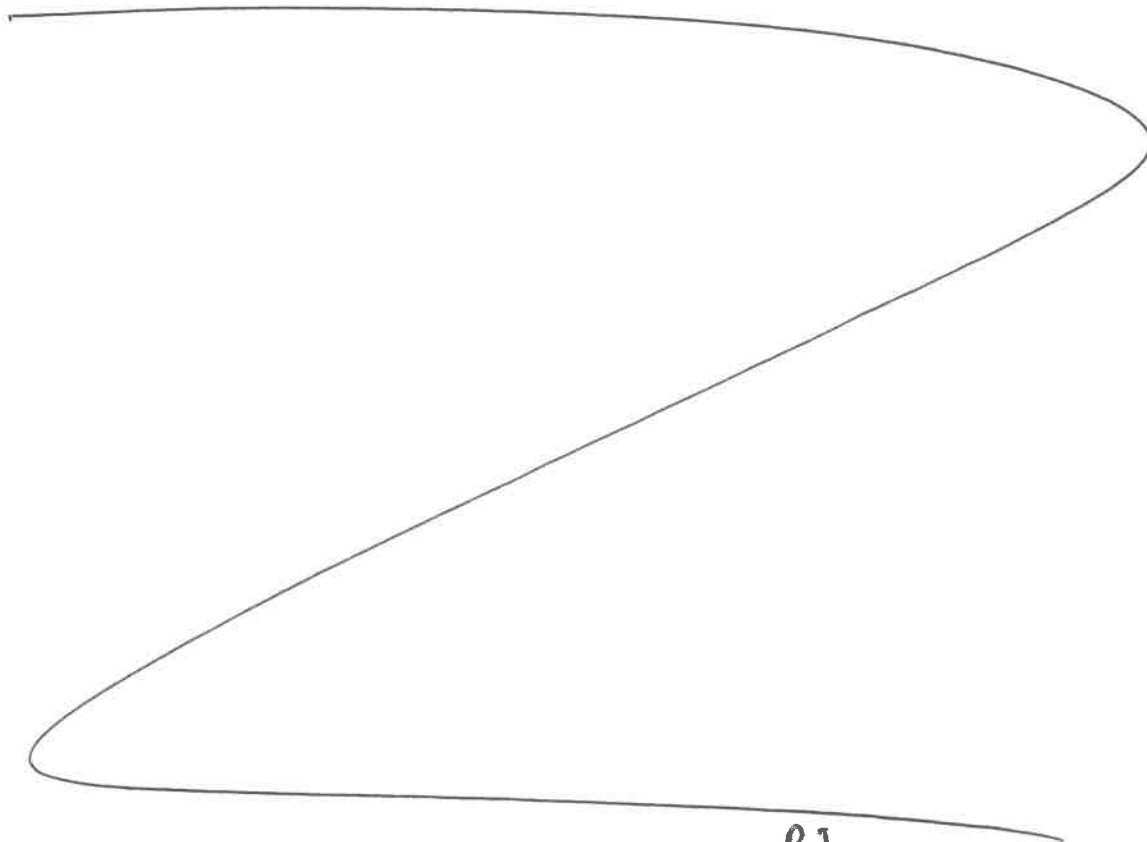
**KD Bath Temperature:** 60 °C **Envap Temperature:** 40 °C

| Date / Time      | Prepped Sample Relinquished By/Location | Received By/Location |
|------------------|-----------------------------------------|----------------------|
| 9/26/25<br>18:20 | RJ (EXT-1066)                           | RC/SVOC              |
|                  | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction SVOC-21

Concentration Date: 09/26/2025

| Sample ID       | Client Sample ID            | Test               | g / mL | PH | Surr/Spike By: |            | Final Vol. (mL) | JarID | Comments | Prep Pos |
|-----------------|-----------------------------|--------------------|--------|----|----------------|------------|-----------------|-------|----------|----------|
|                 |                             |                    |        |    | AddedBy        | VerifiedBy |                 |       |          |          |
| PB169904BL      | SBLK904                     | SVOC-SIMGrou<br>p1 | 1000   | 6  | ritesh         | Evelyn     | 1               |       |          | SEP-1    |
| PB169904BS      | SLCS904                     | SVOC-SIMGrou<br>p1 | 1000   | 6  | ritesh         | Evelyn     | 1               |       |          | 2        |
| PB169904BS<br>D | SLCSD904                    | SVOC-SIMGrou<br>p1 | 1000   | 6  | ritesh         | Evelyn     | 1               |       |          | 3        |
| Q3213-02        | VPB184-HYD-20250924         | SVOC-SIMGrou<br>p1 | 1000   | 6  | ritesh         | Evelyn     | 1               | C     |          | 4        |
| Q3213-03        | BP-VPB-184-GW-340-342       | SVOC-SIMGrou<br>p1 | 960    | 6  | ritesh         | Evelyn     | 1               | C     |          | 5        |
| Q3213-05        | BP-VPB-184-GW-380-382       | SVOC-SIMGrou<br>p1 | 590    | 6  | ritesh         | Evelyn     | 1               | C     |          | 6        |
| Q3213-06        | BP-VPB-184-DUP-202509<br>23 | SVOC-SIMGrou<br>p1 | 510    | 6  | ritesh         | Evelyn     | 1               | C     |          | 7        |
| Q3213-08        | BP-VPB-184-GW-420-422       | SVOC-SIMGrou<br>p1 | 950    | 6  | ritesh         | Evelyn     | 1               | C     |          | 8        |
| Q3213-10        | BP-VPB-184-EB-2025092<br>3  | SVOC-SIMGrou<br>p1 | 730    | 6  | ritesh         | Evelyn     | 1               | C     |          | 9        |



RJ  
9/26

\* Extracts relinquished on the same date as received.

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q3213      WorkList ID : 192164      Department : Extraction      Date : 09-26-2025 08:50:25

| Sample   | Customer Sample         | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method        |
|----------|-------------------------|--------|----------------|--------------|----------|-----------------------------|--------------|---------------|
| Q3213-02 | VPB184-HYD-20250924     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 09/24/2025   | 8270-Modified |
| Q3213-03 | BP-VPB-184-GW-340-342   | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 09/23/2025   | 8270-Modified |
| Q3213-05 | BP-VPB-184-GW-380-382   | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 09/23/2025   | 8270-Modified |
| Q3213-06 | BP-VPB-184-DUP-20250923 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 09/23/2025   | 8270-Modified |
| Q3213-08 | BP-VPB-184-GW-420-422   | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 09/24/2025   | 8270-Modified |
| Q3213-10 | BP-VPB-184-EB-20250923  | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | A12                         | 09/23/2025   | 8270-Modified |

Date/Time 9/26/25 13:10  
Raw Sample Received by: BS (ETA-1060)  
Raw Sample Relinquished by: BS (ETA-1060)

Date/Time 9/26/25 13:40  
Raw Sample Received by: BS (ETA-1060)  
Raw Sample Relinquished by: BS (ETA-1060)

## Prep Standard - Chemical Standard Summary

**Order ID :** Q3213  
**Test :** SVOC-SIMGroup1  
**Prepbatch ID :** PB169904,  
**Sequence ID/Qc Batch ID:** BN100625,

**Standard ID :**  
EP2609,EP2610,EP2646,SP6830,SP6841,SP6842,SP6843,SP6844,SP6845,SP6846,SP6847,SP6848,SP6853,SP6854,SP6855,SP6870,SP6875,

**Chemical ID :**  
1ul/100ul  
sample,E3657,E3875,E3932,E3942,E3943,E3965,E3973,M6157,S10105,S11073,S11496,S11652,S11807,S11828,S12115,S12197,S12220,S12273,S12498,S12499,S12552,S12577,S12670,S12986,S13058,W3112,

## 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> |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|---------------------|------------------|----------------------|
| 1874             | 10 N SODIUM HYDROXIDE SOLN | <a href="#">EP2609</a> | 05/07/2025       | 11/07/2025             | RUPESHKUMAR SHAH   | Extraction_SC ALE_2 | None             | Riteshkumar Patel    |

(EX-SC-2)

**FROM** 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_SC ALE_2 | None             | Riteshkumar Patel    |

(EX-SC-2)

**FROM** 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="#">EP2646</a> | 09/26/2025       | 01/28/2026             | Evelyn Huang       | Extraction_SC<br>ALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br><br>09/26/2025 |

**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>           |
|------------------|---------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|--------------------------------|
| 3493             | Internal Standard 0.4 PPM | <a href="#">SP6830</a> | 06/17/2025       | 12/13/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli<br><br>06/19/2025 |

**FROM** 0.10000ml of S12670 + 4.90000ml of E3942 = Final Quantity: 5.000 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> |
|------------------|----------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3339             | 8270 sim calibration stock 10ppm (CPI) | <a href="#">SP6841</a> | 06/25/2025       | 10/28/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                        |                        |                  |                        |                    |                |                  | 06/25/2025           |

**FROM** 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 CALIBRATION SOLUTION | <a href="#">SP6842</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 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

## 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> |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3355                                                                                                                                                                                                                                      | 8270-SIM MDL-3.2PPM<br>CALIBRATION STOCK SOL- 2ND | <a href="#">SP6853</a> | 07/02/2025       | 09/30/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
| <b>SOURCE</b><br><b>FROM</b> 0.00630ml of S12197 + 0.01280ml of S12220 + 0.03200ml of S11073 + 0.03200ml of S11828 + 0.06400ml of S12499 +<br>0.06400ml of S12552 + 0.06400ml of S12986 + 19.72490ml of E3943 = Final Quantity: 20.000 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> |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3356                                                                                                                   | 8270-SIM MDL-0.4PPM<br>CALIBRATION SOL ICV-2ND | <a href="#">SP6854</a> | 07/02/2025       | 09/30/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
| <b>SOURCE</b><br><b>FROM</b> 0.87500ml of E3943 + 0.01000ml of SP6830 + 0.12500ml of SP6853 = 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> |
|------------------|------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3492             | 8270-SIM-Spike 0.4 PPM | <a href="#">SP6855</a> | 07/30/2025       | 09/30/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay      |
| 08/05/2025       |                        |                        |                  |                        |                    |                |                  |                      |

**FROM** 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

| <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="#">SP6870</a> | 09/16/2025       | 12/09/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
| 09/16/2025       |                            |                        |                  |                        |                    |                |                  |                      |

**FROM** 0.00400ml of S12197 + 0.00800ml of S12220 + 0.02000ml of S11828 + 99.96800ml of E3965 = Final Quantity: 100.000 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> |
|-----------------------------------------------------------------------------------|----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3895                                                                              | 50 ug/ml DFTPP 8270E | <a href="#">SP6875</a> | 09/30/2025       | 03/30/2026             | Rahul Chavli       | None           | None             | Jagrut Upadhyay      |
| <b>FROM</b> 1.00000ml of S12577 + 19.00000ml of E3973 = Final Quantity: 20.000 ml |                      |                        |                  |                        |                    |                |                  |                      |

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## 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-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-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25A2862010 | 12/13/2025      | 06/13/2025 / Rajesh     | 02/28/2025 / Rajesh         | E3942          |

| 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-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H1462005 | 05/24/2027      | 08/22/2025 / RUPESH     | 08/20/2025 / RUPESH         | E3965          |

## 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) | 25C1262005 | 04/16/2026      | 09/15/2025 / Riteshkumar | 09/15/2025 / Riteshkumar    | E3973          |

| 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         |

| 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         |

## CHEMICAL RECEIPT LOG BOOK

| 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 | 01/02/2026      | 07/02/2025 / Jagrut     | 03/15/2024 / Rahul          | S12197         |

| Supplier | ItemCode / ItemName                                                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate 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         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                                            | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0214021 | 12/04/2025      | 06/04/2025 /<br>Jagrut  | 07/23/2024 /<br>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<br>Plus Std #1 [2nd lot at \$100<br>per ampul if requested -<br>contact ARM with Request] | A0214021 | 01/01/2026      | 07/01/2025 /<br>Rahul   | 07/23/2024 /<br>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<br>Plus Std #2 [2nd lot at \$85<br>per ampul if requested -<br>contact ARM with Request] | A0214017 | 01/01/2026      | 07/01/2025 /<br>Rahul   | 07/23/2024 /<br>RAHUL       | S12552         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31615 / SV Mixture,<br>GC/MS Tuning Mixture,<br>CH <sub>2</sub> Cl <sub>2</sub> , 1mL, | A0212955 | 06/30/2027      | 03/31/2025 /<br>Rahul   | 08/01/2024 /<br>Rahul       | S12577         |

| Supplier | ItemCode / ItemName                                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP<br>method, Internal Std,<br>2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0212266 | 12/16/2025      | 06/16/2025 /<br>anahy   | 09/20/2024 /<br>anahy       | S12670         |

| Supplier | ItemCode / ItemName                                                                                                                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix,<br>8270 Mega Mix 1mL,<br>1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New<br>Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/30/2025      | 06/04/2025 /<br>Jagrut  | 12/11/2024 /<br>anahy       | S12986         |

## CHEMICAL RECEIPT LOG BOOK

| 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          |



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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  
Erica Castiglione  
Chemist



110 Benner Circle  
Bellefonte, PA 16823-8812  
Tel: (800)356-1688  
Fax: (814)353-1309

www.restek.com

# CERTIFIED REFERENCE MATERIAL

## 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:**

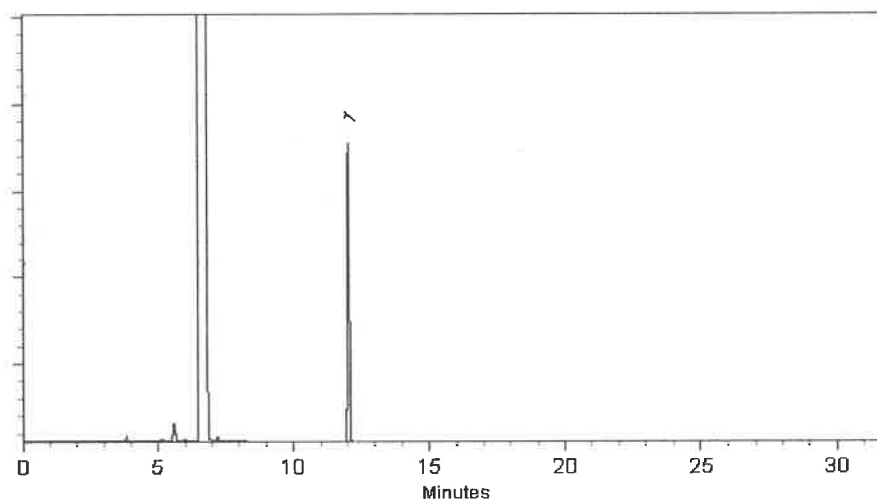
200°C

**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

Acetone  
BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

avantors<sup>™</sup>



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 on 8/20/25

E3965

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



# 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.

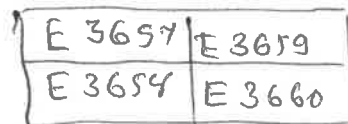
This document has been electronically produced and is valid without a signature.

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

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 ( $\text{CH}_2\text{Cl}_2$ ) (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)                                                                              | $\leq 10 \text{ ppm}$  | $< 5 \text{ ppm}$ |
| 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

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 Heptachlor Epoxide) 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                                                                  | $\leq 1.0$ ppm | 0.3 ppm |
| Titration Acid ( $\mu\text{eq/g}$ )                                                        | $\leq 0.3$     | <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

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

avantor™



MG157  
MB

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    |

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

 **avantor**™



Material No.: 9673-33

Batch No.: 24I1262013

| Test                              | Specification | Result   |
|-----------------------------------|---------------|----------|
| Trace Impurities – Sodium (Na)    | <= 500.0 ppb  | <5.0 ppb |
| Trace Impurities – Strontium (Sr) | <= 5.0 ppb    | <1.0 ppb |
| Trace Impurities – Tin (Sn)       | <= 5.0 ppb    | 1.1 ppb  |
| Trace Impurities – Zinc (Zn)      | <= 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



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:**

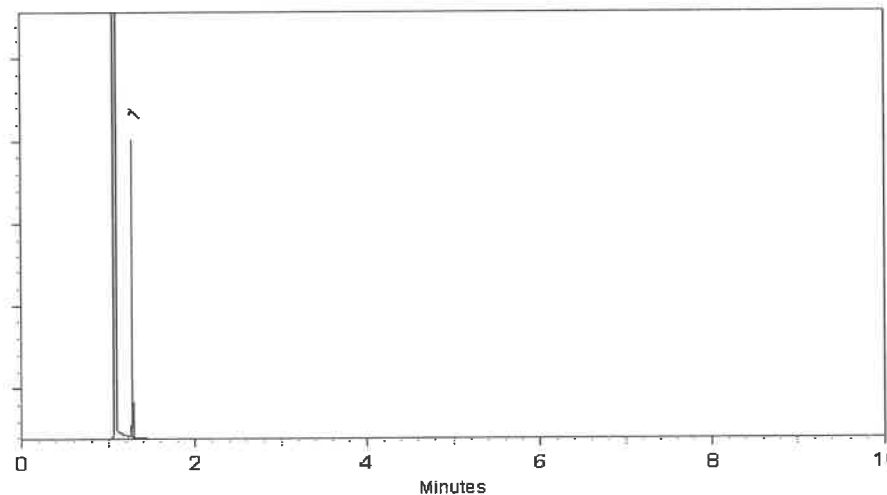
FID

**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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## 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:**

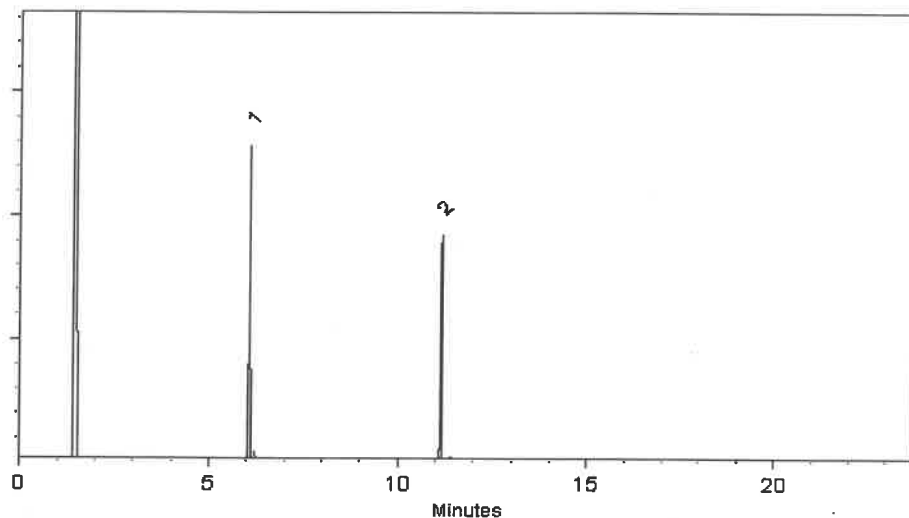
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

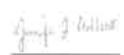


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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.



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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

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|              |          |          |              |            |                                          |
|--------------|----------|----------|--------------|------------|------------------------------------------|
| 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/  
↓  
512206 } 03/18/24

### 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:**

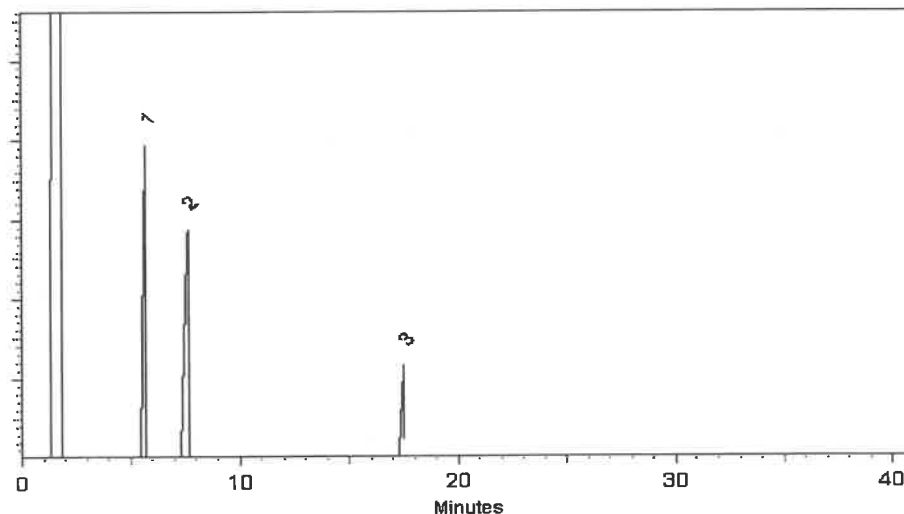
FID

**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 A. Riglin*

Penelope Riglin - Operations Tech I

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

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

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### 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:**

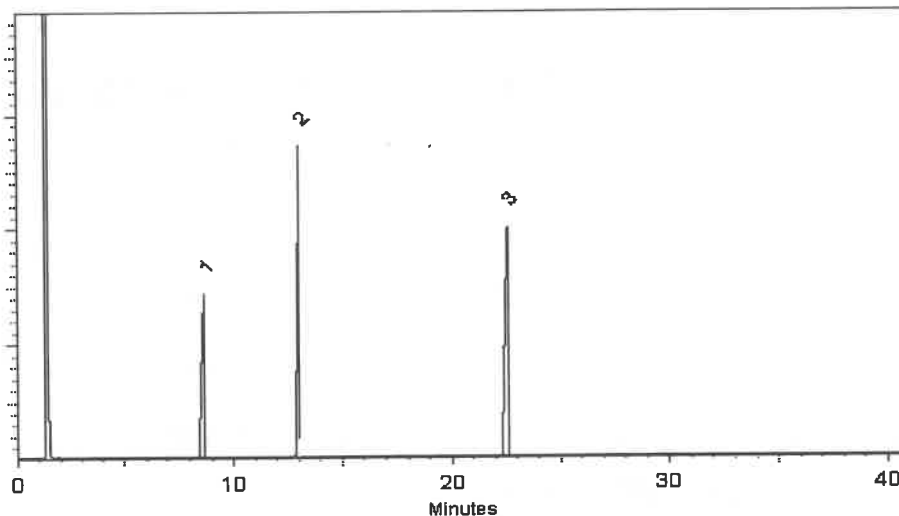
FID

**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



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Santa Rosa, CA 95403

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Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

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|                     |                 |                 |                    |                   |                                                                |
|---------------------|-----------------|-----------------|--------------------|-------------------|----------------------------------------------------------------|
| <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

| Compound               | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|------------------------|----------|------------|------------------|---------------------|
| 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

*Kerry E 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.



110 Benner Circle  
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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.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

gravimetric



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

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**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.)

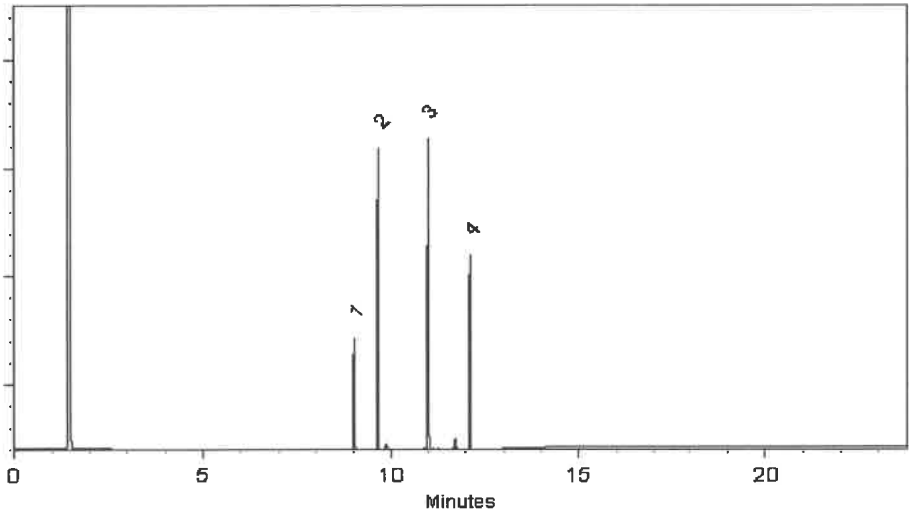
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
10 ml/min.

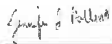
**Inj. Vol**  
1µl



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



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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  
12/17/20

### 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   | ≤ -10 °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 ± 5.81          |
| benzidine   | 92-87-5   | 99.9       | 124.18.6.2P      | 993.8 ± 5.78        |
| caprolactam | 105-60-2  | 99.9       | 271.1.6P         | 999 ± 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*

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

- 1
- 2
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Q3213 & Q3214

|                                                                                                                                                   |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   |                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
|---------------------------------------------------------------------------------------------------------------------------------------------------|---|-------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|---------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|------|--------|---|-------------|---|--|------------------|--|-------------------------------------------------------------------------------|------------------------------------------------------------------------------|---|--|---|--|---|--|---|--|---|--|---|--|--------------------|--|---|---|---|---|---|---|---|---|---|--|--|--|--|--|--|--|--|--|
| <b>CHEMTECH</b><br>CHAIN OF CUSTODY RECORD                                                                                                        |   | 284 Sheffield Street, Mountainside, NJ 07092<br>(908) 789-8900 Fax: (908) 78-8922<br>www.chemtech.net |   |                                                                                                                                                                                                                                                                                                                                                                                         |   | Chemtech Project Number:  |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                   |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   | COC Number:               |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| CLIENT INFORMATION                                                                                                                                |   |                                                                                                       |   | PROJECT INFORMATION                                                                                                                                                                                                                                                                                                                                                                     |   |                           |   | BILLING INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| COMPANY: Tetra Tech                                                                                                                               |   |                                                                                                       |   | PROJECT NAME: NWIRP Bethpage                                                                                                                                                                                                                                                                                                                                                            |   |                           |   | BILL TO: SEE CONTRACT                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |                                                                                                                                                                                                                                                                                                                                                      |  |      | PO#    |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| ADDRESS: 4433 Corporation Lane Suite 300                                                                                                          |   |                                                                                                       |   | PROJECT #: 112G08005-WE13 LOCATION: VPB-184                                                                                                                                                                                                                                                                                                                                             |   |                           |   | ADDRESS:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| CITY: Virginia Beach                                                                                                                              |   | STATE: VA                                                                                             |   | ZIP: 23462                                                                                                                                                                                                                                                                                                                                                                              |   | PROJECT MANAGER: Ernie Wu |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | CITY:                                                                                                                                                                                                                                                                                                                                                |  |      |        |   | STATE: ZIP: |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| ATTENTION: Ernie Wu                                                                                                                               |   |                                                                                                       |   | E-MAIL: ernie.wu@tetrattech.com                                                                                                                                                                                                                                                                                                                                                         |   |                           |   | ATTENTION:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |                                                                                                                                                                                                                                                                                                                                                      |  |      | PHONE: |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| PHONE: 757-466-4901                                                                                                                               |   |                                                                                                       |   | FAX: 757-461-4148                                                                                                                                                                                                                                                                                                                                                                       |   | PHONE: 757-466-4901       |   | FAX: 757-461-4148                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| DATA TURNAROUND INFORMATION                                                                                                                       |   |                                                                                                       |   | DATA DELIVERABLE INFORMATION                                                                                                                                                                                                                                                                                                                                                            |   |                           |   | ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| FAX: 2 & 10 DAYS*<br>HARD COPY: 2 & 10 DAYS*<br>EDD: 2 & 10 DAYS*<br>* TO BE APPROVED BY CHEMTECH<br>STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS |   |                                                                                                       |   | <input type="checkbox"/> RESULTS ONLY <input type="checkbox"/> USEPA CLP<br><input type="checkbox"/> RESULTS + QC <input type="checkbox"/> New York State ASP "B"<br><input type="checkbox"/> New Jersey REDUCED <input type="checkbox"/> New York State ASP "A"<br><input type="checkbox"/> New Jersey CLP <input type="checkbox"/> Other _____<br><input type="checkbox"/> EDD Format |   |                           |   | <table border="1" style="width:100%; border-collapse: collapse;"> <tr> <td colspan="2" style="text-align: center;">VOC(SW846-4260B)</td> <td colspan="2" style="text-align: center;">1,4 Dioxane (8270 SIM)</td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> <td colspan="2"></td> </tr> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>5</td><td>6</td><td>7</td><td>8</td><td>9</td><td colspan="9"></td> </tr> </table> |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  | VOC(SW846-4260B) |  | 1,4 Dioxane (8270 SIM)                                                        |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |  |  |  |  |  |  |  |  |
| VOC(SW846-4260B)                                                                                                                                  |   | 1,4 Dioxane (8270 SIM)                                                                                |   |                                                                                                                                                                                                                                                                                                                                                                                         |   |                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 1                                                                                                                                                 | 2 | 3                                                                                                     | 4 | 5                                                                                                                                                                                                                                                                                                                                                                                       | 6 | 7                         | 8 | 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                   |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   |                           |   | PRESERVATIVES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  | COMMENTS         |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| CHEMTECH<br>SAMPLE<br>ID                                                                                                                          |   | PROJECT<br>SAMPLE IDENTIFICATION                                                                      |   | SAMPLE<br>MATRIX                                                                                                                                                                                                                                                                                                                                                                        |   | SAMPLE<br>TYPE            |   | SAMPLE<br>COLLECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | # of Bottles                                                                                                                                                                                                                                                                                                                                         |  |      |        |   |             |   |  |                  |  |                                                                               | <-- Specify Preservatives<br>A-HCl B-HNO3<br>C-H2SO4 D-NaOH<br>E-ICE F-Other |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                   |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   | COMP                      |   | GRAB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  | DATE                                                                                                                                                                                                                                                                                                                                                 |  | TIME |        |   |             | 1 |  | 2                |  | 3                                                                             |                                                                              | 4 |  | 5 |  | 6 |  | 7 |  | 8 |  | 9 |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 1.                                                                                                                                                |   | BP-VPB-184-TB-20250923                                                                                |   | QA                                                                                                                                                                                                                                                                                                                                                                                      |   | X                         |   | 9/19/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 9:00                                                                                                                                                                                                                                                                                                                                                 |  | 2    |        | 2 |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  | Trip Blank         |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 2.                                                                                                                                                |   | VPB184-HYD-20250924                                                                                   |   | AQ                                                                                                                                                                                                                                                                                                                                                                                      |   | X                         |   | 9/24/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 15:45                                                                                                                                                                                                                                                                                                                                                |  | 5    |        | 2 |             | 1 |  | 2                |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  | Hydrant Sample     |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 3.                                                                                                                                                |   | BP-VPB-184-GW-340-342                                                                                 |   | AQ                                                                                                                                                                                                                                                                                                                                                                                      |   | X                         |   | 9/23/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 9:58                                                                                                                                                                                                                                                                                                                                                 |  | 3    |        | 2 |             | 1 |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 4.                                                                                                                                                |   | BP-VPB-184-GW-360-362                                                                                 |   | AQ                                                                                                                                                                                                                                                                                                                                                                                      |   | X                         |   | 9/23/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 12:10                                                                                                                                                                                                                                                                                                                                                |  | 3    |        | 3 |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 5.                                                                                                                                                |   | BP-VPB-184-GW-380-382                                                                                 |   | AQ                                                                                                                                                                                                                                                                                                                                                                                      |   | X                         |   | 9/23/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 14:16                                                                                                                                                                                                                                                                                                                                                |  | 3    |        | 2 |             | 1 |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 6.                                                                                                                                                |   | BP-VPB-184-DUP-20250923                                                                               |   | QA                                                                                                                                                                                                                                                                                                                                                                                      |   | X                         |   | 9/23/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 12:00                                                                                                                                                                                                                                                                                                                                                |  | 1    |        |   |             | 1 |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  | 8270 SIM Duplicate |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 7.                                                                                                                                                |   | BP-VPB-184-GW-400-402                                                                                 |   | AQ                                                                                                                                                                                                                                                                                                                                                                                      |   | X                         |   | 9/24/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 9:40                                                                                                                                                                                                                                                                                                                                                 |  | 3    |        | 3 |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 8.                                                                                                                                                |   | BP-VPB-184-GW-420-422                                                                                 |   | AQ                                                                                                                                                                                                                                                                                                                                                                                      |   | X                         |   | 9/24/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 11:33                                                                                                                                                                                                                                                                                                                                                |  | 3    |        | 2 |             | 1 |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 9.                                                                                                                                                |   | BP-VPB-184-GW-440-442                                                                                 |   | AQ                                                                                                                                                                                                                                                                                                                                                                                      |   | X                         |   | 9/24/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 14:25                                                                                                                                                                                                                                                                                                                                                |  | 3    |        | 3 |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 10.                                                                                                                                               |   | BP-VPB-184-EB-20250923                                                                                |   | QA                                                                                                                                                                                                                                                                                                                                                                                      |   | X                         |   | 9/23/25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  | 8:45                                                                                                                                                                                                                                                                                                                                                 |  | 3    |        | 2 |             | 1 |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  | Equipment Blank    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY                                            |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   |                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| RELINQUISHED BY SAMPLER                                                                                                                           |   |                                                                                                       |   | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                               |   |                           |   | RECEIVED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 1.                                                                                                                                                |   |                                                                                                       |   | 9/25/25 1330                                                                                                                                                                                                                                                                                                                                                                            |   |                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                      |  | 1400 |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| RELINQUISHED BY                                                                                                                                   |   |                                                                                                       |   | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                               |   |                           |   | RECEIVED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 2.                                                                                                                                                |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   |                           |   | 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                   |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   |                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| RELINQUISHED BY                                                                                                                                   |   |                                                                                                       |   | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                               |   |                           |   | RECEIVED FOR LAB BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| 3.                                                                                                                                                |   |                                                                                                       |   | 9-25-25 1730                                                                                                                                                                                                                                                                                                                                                                            |   |                           |   | 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                   |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   |                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                   |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   |                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Conditions of bottles or coolers at receipt:    q Compliant    q Non Compliant    q Cooler Temp <u>2.1°C</u><br>MeOH extraction requires an additional 4oz. Jar for percent solid    q Ice in<br>Cooler?: _____<br>Comments: 5 Day TAT - For VOC's see worksheet #15 of SAP 2018 for VPB program VOC list<br>10-DAY TAT - For 1,4 Dioxane (8270 SIM) |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                   |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   |                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | SHIPPED VIA: CLIENT: <input type="checkbox"/> Hand Delivered <input type="checkbox"/> Overnight<br>CHEMTECH: <input type="checkbox"/> Picked Up <input type="checkbox"/> Overnight                                                                                                                                                                   |  |      |        |   |             |   |  |                  |  | Shipment Complete<br><input type="checkbox"/> YES <input type="checkbox"/> NO |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
|                                                                                                                                                   |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   |                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  | Page <u>1</u> of <u>1</u>                                                                                                                                                                                                                                                                                                                            |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |
| WHITE - CHEMTECH COPY FOR RETURN TO CLIENT    YELLOW - CHEMTECH COPY    PINK - SAMPLER COPY                                                       |   |                                                                                                       |   |                                                                                                                                                                                                                                                                                                                                                                                         |   |                           |   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |                                                                                                                                                                                                                                                                                                                                                      |  |      |        |   |             |   |  |                  |  |                                                                               |                                                                              |   |  |   |  |   |  |   |  |   |  |   |  |                    |  |   |   |   |   |   |   |   |   |   |  |  |  |  |  |  |  |  |  |

### Laboratory Certification

| Certified By    | License No.      |
|-----------------|------------------|
|                 |                  |
| 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           |

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## LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3213 TETR06

**Order Date :** 9/25/2025 2:33:00 PM

**Project Mgr :**

**Client Name :** Tetra Tech NUS, Inc.

**Project Name :** NWIRP Bethpage 112G080

**Report Type :** Level 4

**Client Contact :** Ernie Wu

**Receive DateTime :** 9/25/2025 5:30:00 PM

**EDD Type :** ADAPT

**Invoice Name :** Tetra Tech NUS, Inc.

**Purchase Order :**

**Hard Copy Date :**

**Invoice Contact :** Ernie Wu

**Date Signoff :**

| LAB ID   | CLIENT ID              | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST          | TEST GROUP | METHOD   | FAX DATE    | DUE DATES |
|----------|------------------------|--------|-------------|-------------|---------------|------------|----------|-------------|-----------|
| Q3213-01 | BP-VPB-184-TB-20250923 | Water  | 09/23/2025  | 09:00       | VOC-TCLVOA-10 |            | 8260-Low | 5 Bus. Days |           |
| Q3213-02 | VPB184-HYD-20250924    | Water  | 09/24/2025  | 15:45       | VOC-TCLVOA-10 |            | 8260-Low | 5 Bus. Days |           |
| Q3213-03 | BP-VPB-184-GW-340-342  | Water  | 09/23/2025  | 09:58       | VOC-TCLVOA-10 |            | 8260-Low | 5 Bus. Days |           |
| Q3213-04 | BP-VPB-184-GW-360-362  | Water  | 09/23/2025  | 12:10       | VOC-TCLVOA-10 |            | 8260-Low | 5 Bus. Days |           |
| Q3213-05 | BP-VPB-184-GW-380-382  | Water  | 09/23/2025  | 14:16       | VOC-TCLVOA-10 |            | 8260-Low | 5 Bus. Days |           |
| Q3213-07 | BP-VPB-184-GW-400-402  | Water  | 09/24/2025  | 09:40       | VOC-TCLVOA-10 |            | 8260-Low | 5 Bus. Days |           |
| Q3213-08 | BP-VPB-184-GW-420-422  | Water  | 09/24/2025  | 11:33       | VOC-TCLVOA-10 |            | 8260-Low | 5 Bus. Days |           |
| Q3213-09 | BP-VPB-184-GW-440-442  | Water  | 09/24/2025  | 14:25       | VOC-TCLVOA-10 |            | 8260-Low | 5 Bus. Days |           |

## LOGIN REPORT/SAMPLE TRANSFER

**Order ID :** Q3213      TETR06

**Order Date :** 9/25/2025 2:33:00 PM

**Project Mgr :**

**Client Name :** Tetra Tech NUS, Inc.

**Project Name :** NWIRP Bethpage 112G080

**Report Type :** Level 4

**Client Contact :** Ernie Wu

**Receive DateTime :** 9/25/2025 5:30:00 PM

**EDD Type :** ADAPT

**Invoice Name :** Tetra Tech NUS, Inc.

**Purchase Order :**

**Hard Copy Date :**

**Invoice Contact :** Ernie Wu

**Date Signoff :**

| LAB ID   | CLIENT ID              | MATRIX | SAMPLE DATE | SAMPLE TIME | TEST          | TEST GROUP | METHOD   | FAX DATE    | DUE DATES |
|----------|------------------------|--------|-------------|-------------|---------------|------------|----------|-------------|-----------|
| Q3213-10 | BP-VPB-184-EB-20250923 | Water  | 09/23/2025  | 08:45       | VOC-TCLVOA-10 |            | 8260-Low | 5 Bus. Days |           |
|          |                        |        |             |             | VOC-TCLVOA-10 |            | 8260-Low | 5 Bus. Days |           |

**Relinquished By :** 

**Date / Time :** 9/26/25 10:45

**Received By :** 

**Date / Time :** 09/26/25 11:21

**Storage Area :** VOA Refridgerator Room

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
 Data File : BN038022.D  
 Acq On : 06 Oct 2025 23:32  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Oct 07 01:41:02 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Wed Sep 24 11:00:01 2025  
 Response via : Initial Calibration

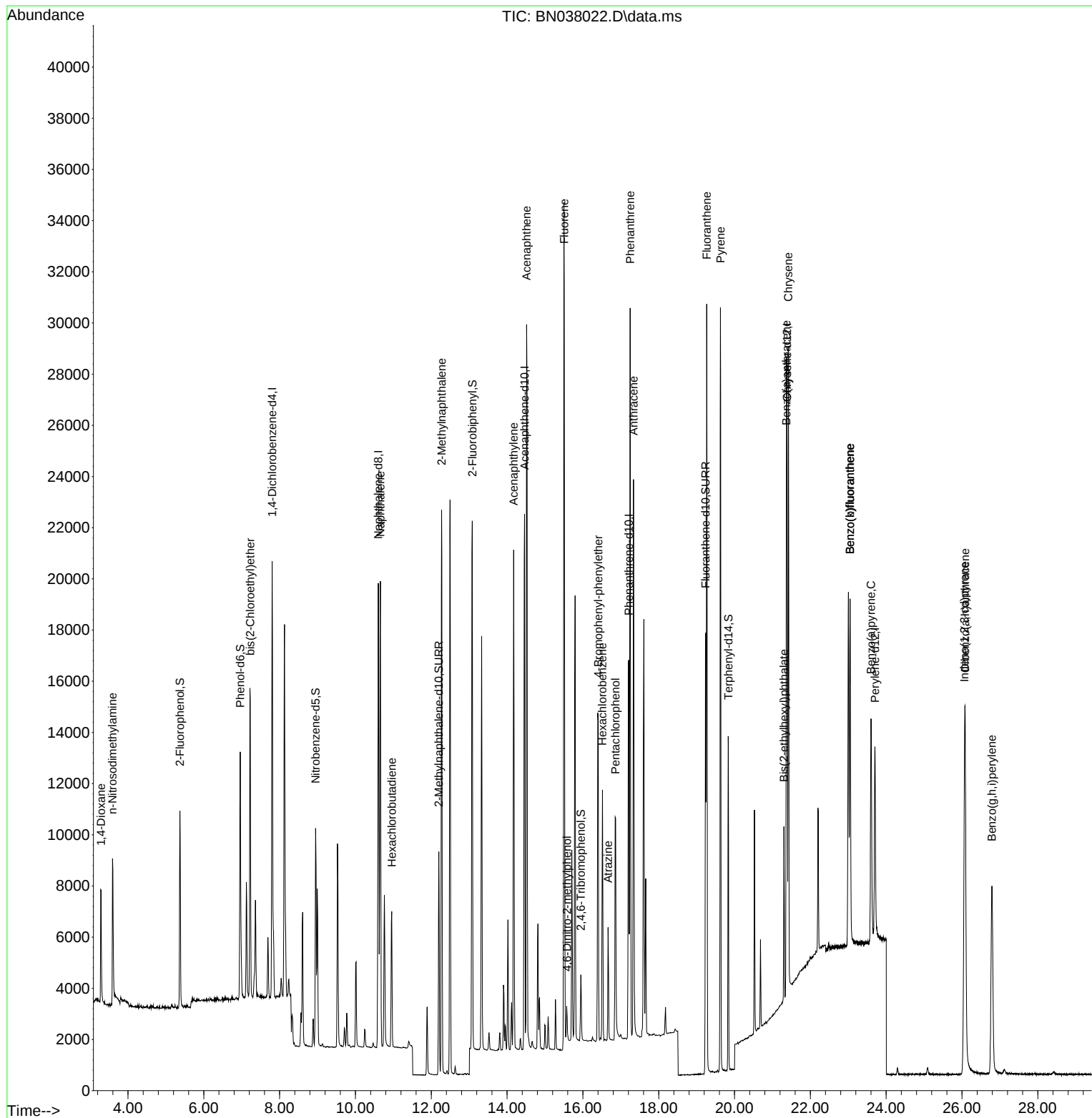
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.804  | 152  | 8262     | 0.400 | ng    | -0.02    |
| 7) Naphthalene-d8             | 10.605 | 136  | 22968    | 0.400 | ng    | -0.02    |
| 13) Acenaphthene-d10          | 14.462 | 164  | 12134    | 0.400 | ng    | -0.01    |
| 19) Phenanthrene-d10          | 17.210 | 188  | 22733    | 0.400 | ng    | -0.01    |
| 29) Chrysene-d12              | 21.384 | 240  | 13562    | 0.400 | ng    | #-0.02   |
| 35) Perylene-d12              | 23.703 | 264  | 10530    | 0.400 | ng    | #-0.02   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.370  | 112  | 6312     | 0.335 | ng    | -0.01    |
| 5) Phenol-d6                  | 6.959  | 99   | 8816     | 0.356 | ng    | -0.01    |
| 8) Nitrobenzene-d5            | 8.950  | 82   | 6668     | 0.381 | ng    | -0.02    |
| 11) 2-Methylnaphthalene-d10   | 12.202 | 152  | 11565    | 0.362 | ng    | -0.02    |
| 14) 2,4,6-Tribromophenol      | 15.944 | 330  | 1512     | 0.329 | ng    | -0.02    |
| 15) 2-Fluorobiphenyl          | 13.083 | 172  | 19165    | 0.386 | ng    | -0.01    |
| 27) Fluoranthene-d10          | 19.238 | 212  | 18490    | 0.323 | ng    | -0.01    |
| 31) Terphenyl-d14             | 19.838 | 244  | 12280    | 0.455 | ng    | -0.01    |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.290  | 88   | 3071     | 0.366 | ng    | 98       |
| 3) n-Nitrosodimethylamine     | 3.593  | 42   | 3991     | 0.358 | ng    | # 89     |
| 6) bis(2-Chloroethyl)ether    | 7.226  | 93   | 8808     | 0.383 | ng    | 98       |
| 9) Naphthalene                | 10.658 | 128  | 24498    | 0.387 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.957 | 225  | 4360     | 0.404 | ng    | # 99     |
| 12) 2-Methylnaphthalene       | 12.273 | 142  | 15485    | 0.375 | ng    | 98       |
| 16) Acenaphthylene            | 14.174 | 152  | 21062    | 0.382 | ng    | 100      |
| 17) Acenaphthene              | 14.516 | 154  | 14495    | 0.369 | ng    | 98       |
| 18) Fluorene                  | 15.510 | 166  | 16302    | 0.343 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.584 | 198  | 897      | 0.375 | ng    | # 88     |
| 21) 4-Bromophenyl-phenylether | 16.404 | 248  | 5704     | 0.385 | ng    | # 87     |
| 22) Hexachlorobenzene         | 16.515 | 284  | 7267     | 0.405 | ng    | 98       |
| 23) Atrazine                  | 16.664 | 200  | 3424     | 0.304 | ng    | # 91     |
| 24) Pentachlorophenol         | 16.863 | 266  | 5132     | 0.833 | ng    | 97       |
| 25) Phenanthrene              | 17.248 | 178  | 28024    | 0.375 | ng    | 100      |
| 26) Anthracene                | 17.335 | 178  | 23199    | 0.357 | ng    | 100      |
| 28) Fluoranthene              | 19.266 | 202  | 27243    | 0.331 | ng    | 99       |
| 30) Pyrene                    | 19.629 | 202  | 26066    | 0.487 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.366 | 228  | 17879    | 0.377 | ng    | 100      |
| 33) Chrysene                  | 21.420 | 228  | 20217    | 0.394 | ng    | 100      |
| 34) Bis(2-ethylhexyl)phtha... | 21.304 | 149  | 5945     | 0.317 | ng    | 100      |
| 36) Indeno(1,2,3-cd)pyrene    | 26.069 | 276  | 19936    | 0.414 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 23.048 | 252  | 17538    | 0.386 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 23.048 | 252  | 17538    | 0.384 | ng    | 96       |
| 39) Benzo(a)pyrene            | 23.601 | 252  | 13760    | 0.383 | ng    | # 89     |
| 40) Dibenzo(a,h)anthracene    | 26.083 | 278  | 15307    | 0.407 | ng    | 97       |
| 41) Benzo(g,h,i)perylene      | 26.791 | 276  | 16776    | 0.425 | ng    | 98       |

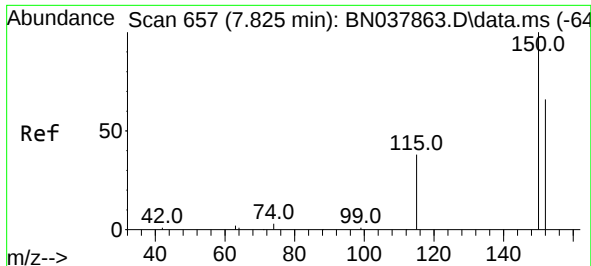
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN100625\  
Data File : BN038022.D  
Acq On : 06 Oct 2025 23:32  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 22 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

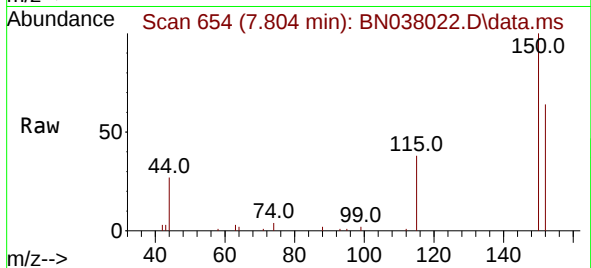
Quant Time: Oct 07 01:41:02 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN092325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Wed Sep 24 11:00:01 2025  
Response via : Initial Calibration



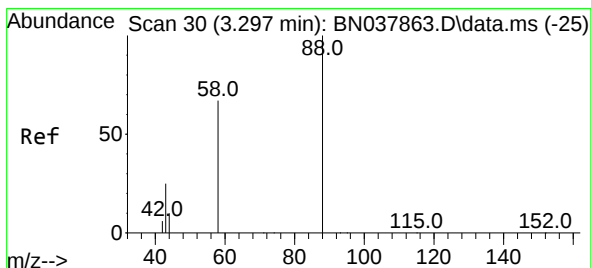
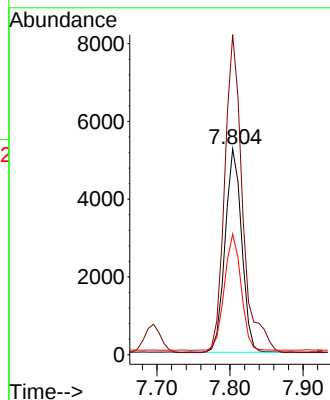
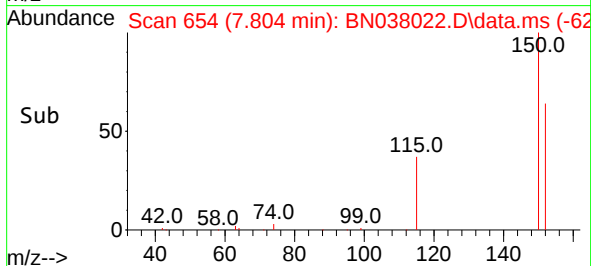


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.804 min Scan# 61  
 Delta R.T. -0.021 min  
 Lab File: BN038022.D  
 Acq: 06 Oct 2025 23:32

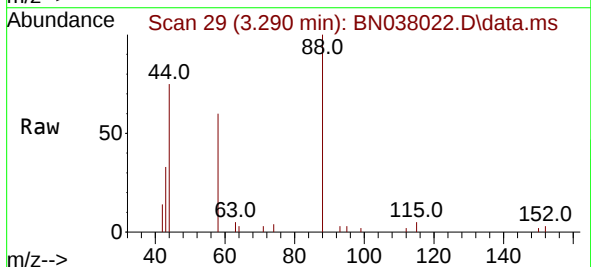
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4



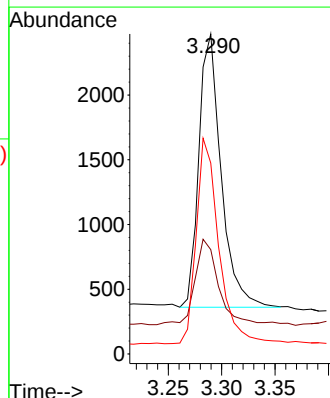
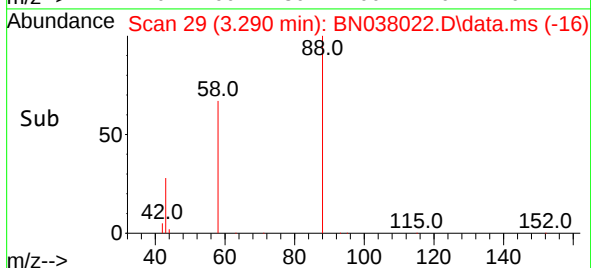
Tgt Ion:152 Resp: 8262  
 Ion Ratio Lower Upper  
 152 100  
 150 155.5 121.0 181.4  
 115 58.7 47.4 71.0

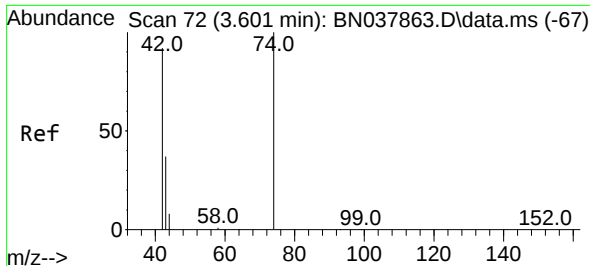


#2  
 1,4-Dioxane  
 Concen: 0.366 ng  
 RT: 3.290 min Scan# 29  
 Delta R.T. -0.007 min  
 Lab File: BN038022.D  
 Acq: 06 Oct 2025 23:32



Tgt Ion: 88 Resp: 3071  
 Ion Ratio Lower Upper  
 88 100  
 43 33.2 26.6 39.8  
 58 76.2 58.9 88.3

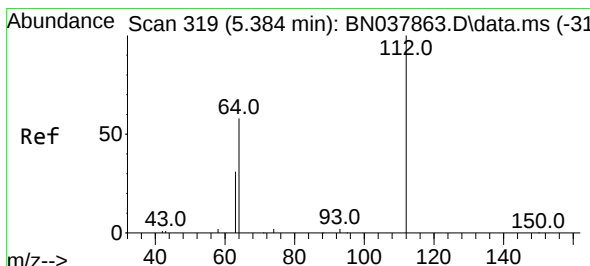
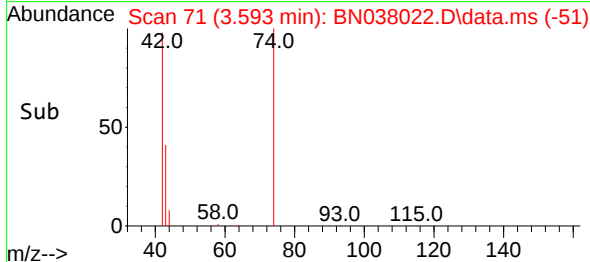
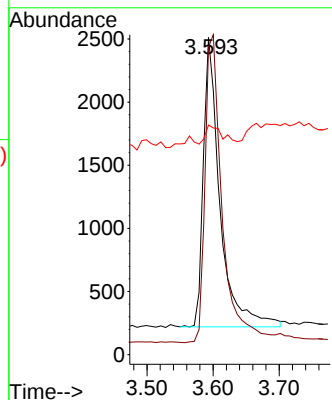
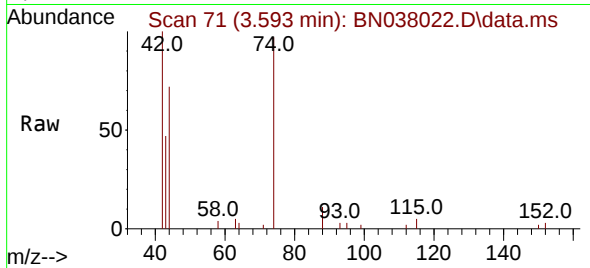




#3  
n-Nitrosodimethylamine  
Concen: 0.358 ng  
RT: 3.593 min Scan# 71  
Delta R.T. -0.007 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

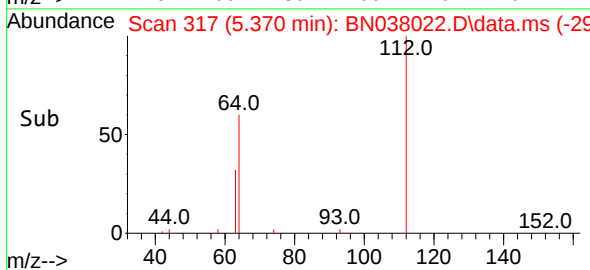
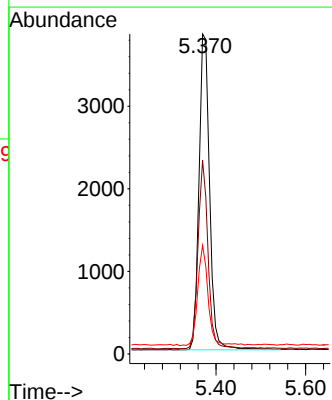
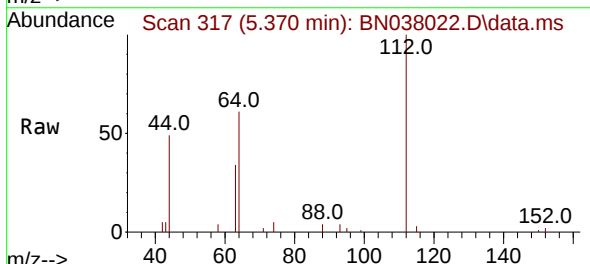
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

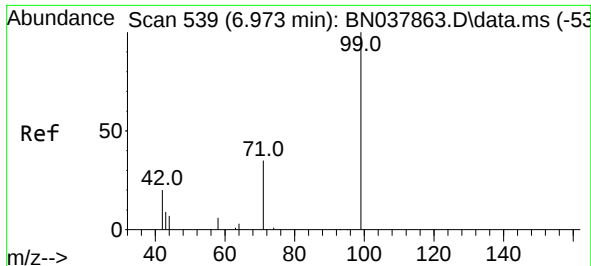
Tgt Ion: 42 Resp: 3991  
Ion Ratio Lower Upper  
42 100  
74 112.4 93.4 140.0  
44 6.7 22.2 33.4#



#4  
2-Fluorophenol  
Concen: 0.335 ng  
RT: 5.370 min Scan# 317  
Delta R.T. -0.015 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion: 112 Resp: 6312  
Ion Ratio Lower Upper  
112 100  
64 55.8 44.6 66.8  
63 30.4 24.9 37.3

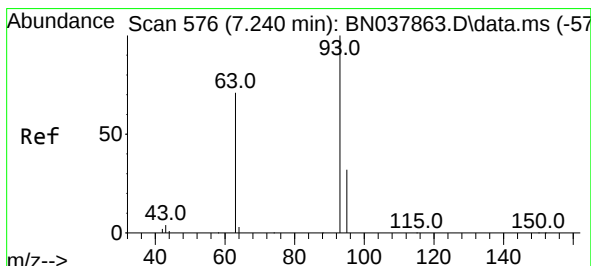
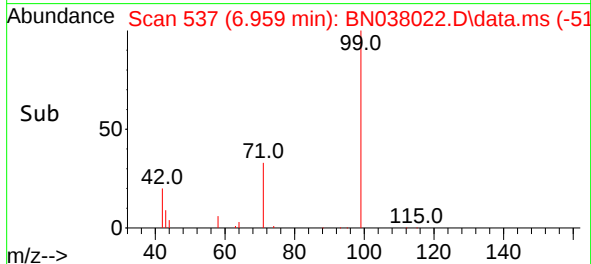
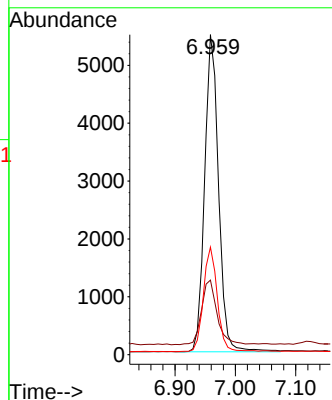
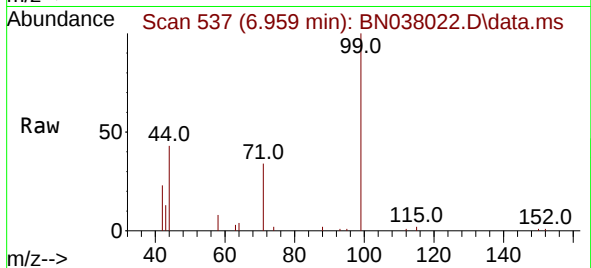




#5  
Phenol-d6  
Concen: 0.356 ng  
RT: 6.959 min Scan# 51  
Delta R.T. -0.015 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

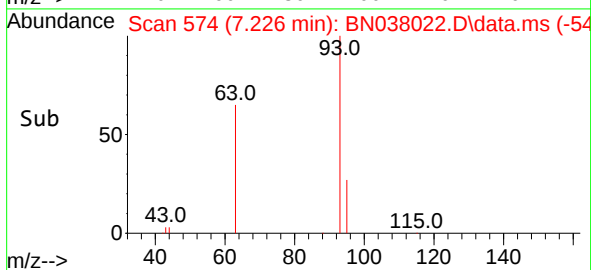
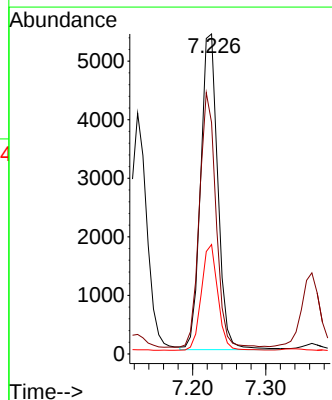
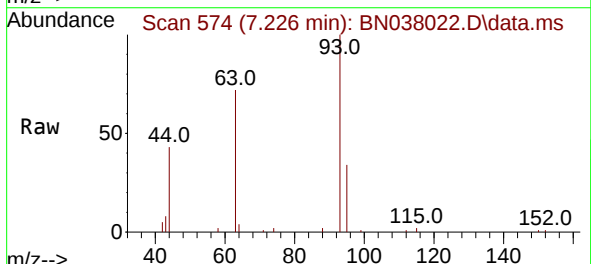
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

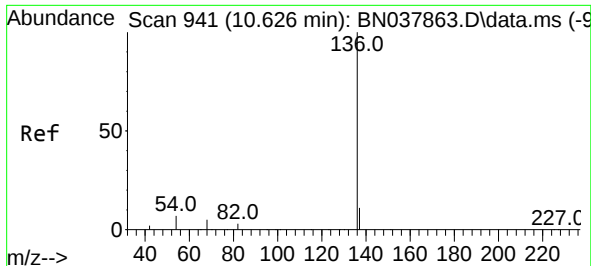
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 8816  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 22.9  | 17.2  | 25.8  |
| 71       | 33.2  | 27.3  | 40.9  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.383 ng  
RT: 7.226 min Scan# 574  
Delta R.T. -0.015 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 8808  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 77.4  | 60.1  | 90.1  |
| 95       | 32.2  | 25.4  | 38.2  |

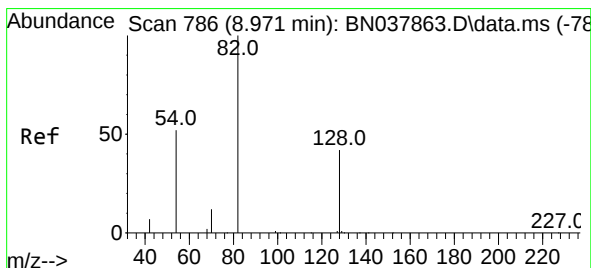
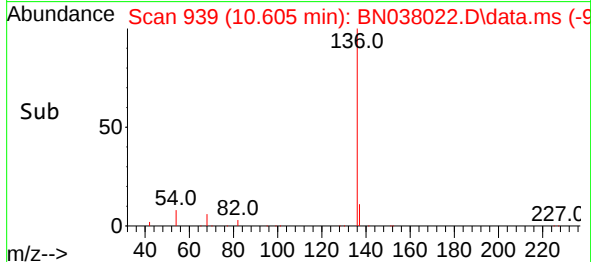
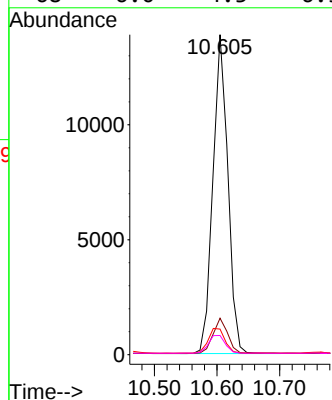
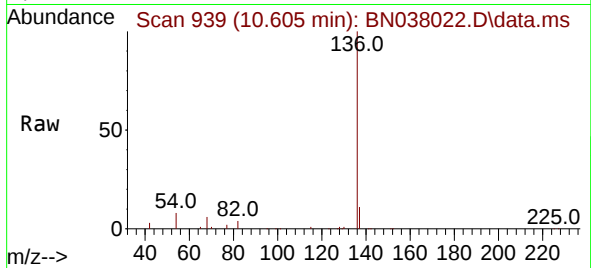




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.605 min Scan# 91  
Delta R.T. -0.022 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

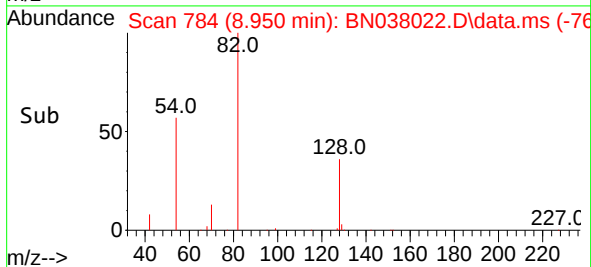
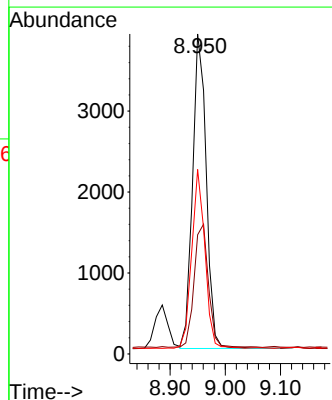
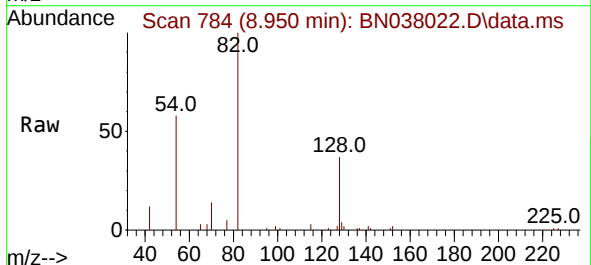
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

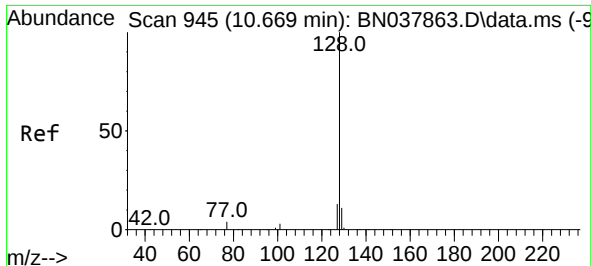
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:136 | Resp: | 22968    |
| Ion Ratio   | Lower | Upper    |
| 136         | 100   |          |
| 137         | 11.4  | 9.0 13.4 |
| 54          | 8.0   | 5.8 8.8  |
| 68          | 6.0   | 4.3 6.5  |



#8  
Nitrobenzene-d5  
Concen: 0.381 ng  
RT: 8.950 min Scan# 784  
Delta R.T. -0.022 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion: 82 | Resp: | 6668      |
| Ion Ratio   | Lower | Upper     |
| 82          | 100   |           |
| 128         | 37.3  | 34.8 52.2 |
| 54          | 57.7  | 42.2 63.2 |

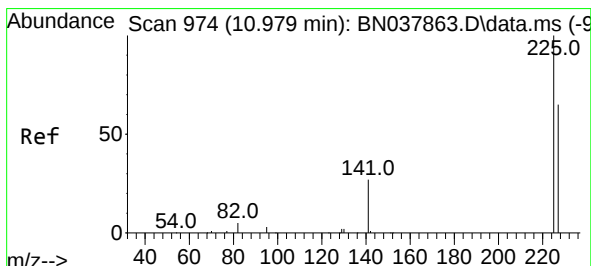
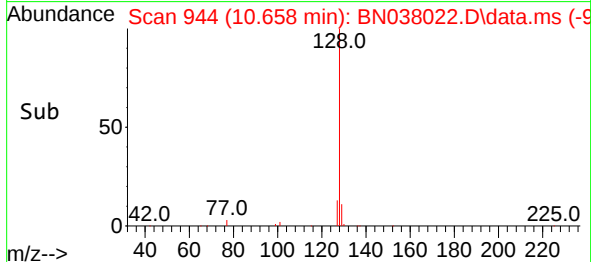
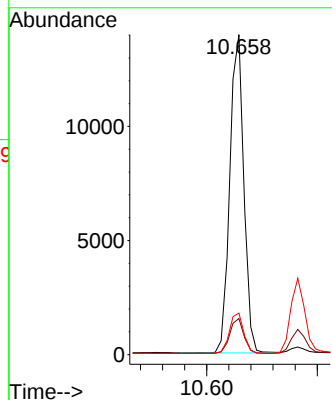
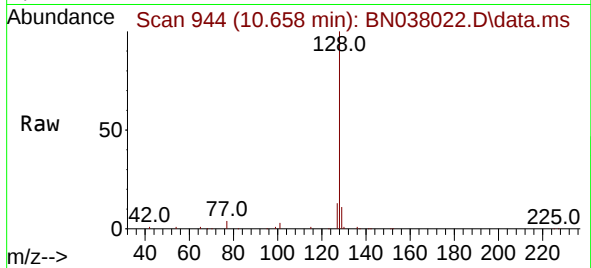




#9  
Naphthalene  
Concen: 0.387 ng  
RT: 10.658 min Scan# 945  
Delta R.T. -0.011 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

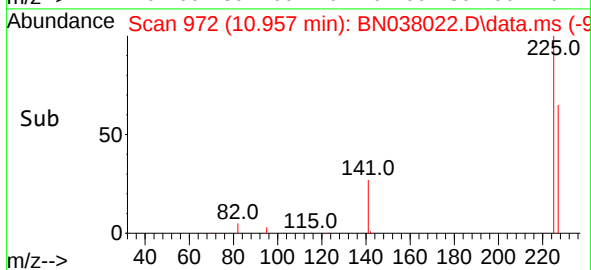
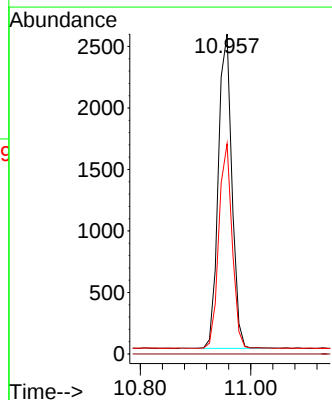
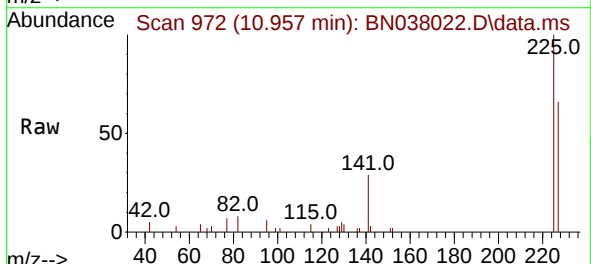
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

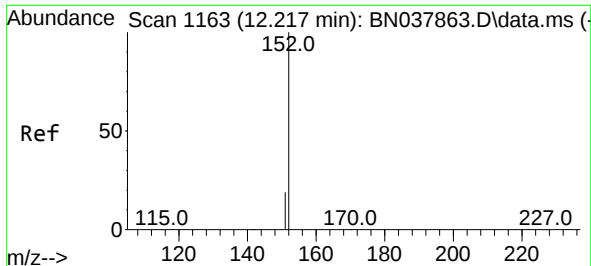
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:128 | Resp: | 24498     |
| Ion Ratio   | Lower | Upper     |
| 128         | 100   |           |
| 129         | 11.3  | 9.2 13.8  |
| 127         | 13.0  | 11.0 16.6 |



#10  
Hexachlorobutadiene  
Concen: 0.404 ng  
RT: 10.957 min Scan# 972  
Delta R.T. -0.022 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:225 | Resp: | 4360      |
| Ion Ratio   | Lower | Upper     |
| 225         | 100   |           |
| 223         | 0.0   | 0.0 0.0   |
| 227         | 63.5  | 51.4 77.2 |

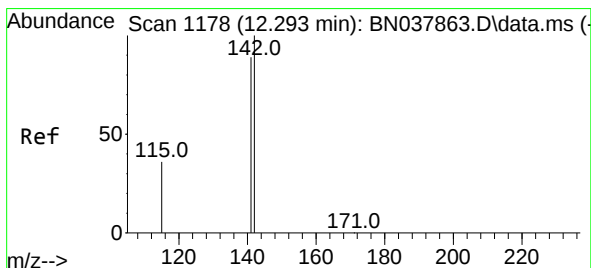
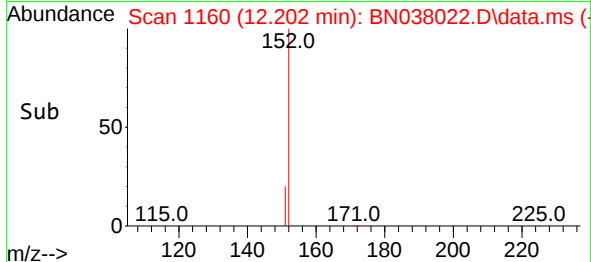
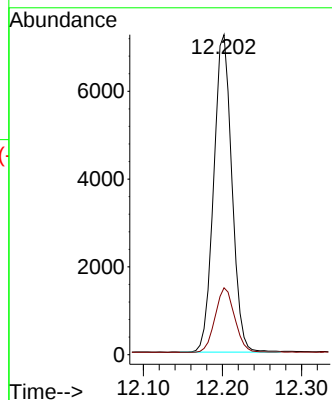
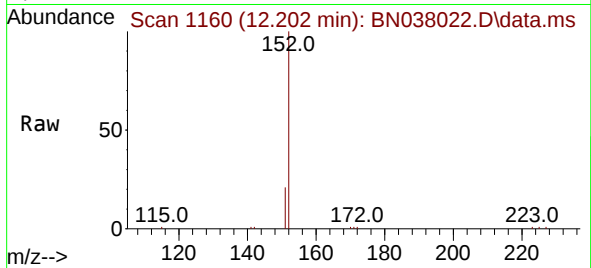




#11  
2-Methylnaphthalene-d10  
Concen: 0.362 ng  
RT: 12.202 min Scan# 1160  
Delta R.T. -0.015 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

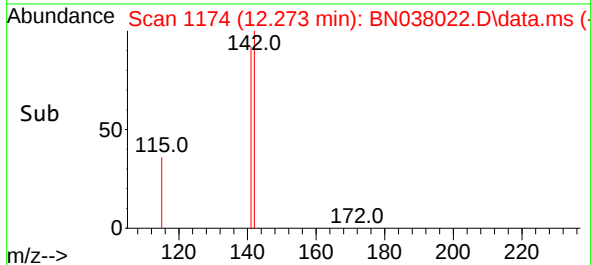
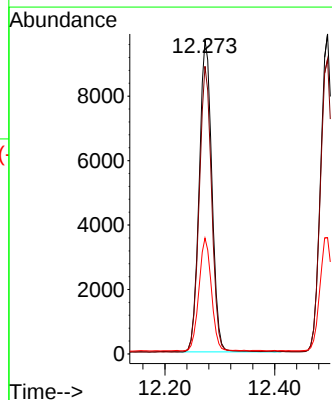
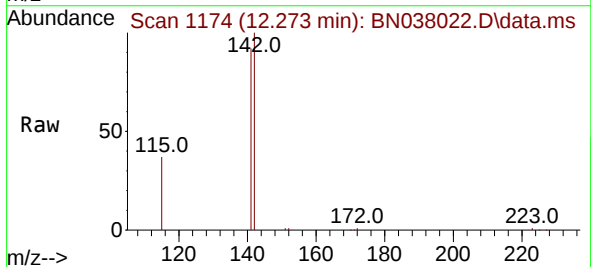
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

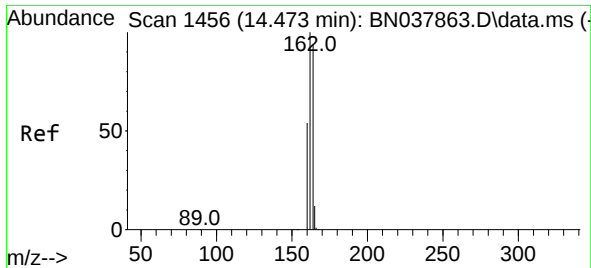
Tgt Ion:152 Resp: 11565  
Ion Ratio Lower Upper  
152 100  
151 21.9 17.4 26.2



#12  
2-Methylnaphthalene  
Concen: 0.375 ng  
RT: 12.273 min Scan# 1174  
Delta R.T. -0.021 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:142 Resp: 15485  
Ion Ratio Lower Upper  
142 100  
141 91.7 71.2 106.8  
115 36.9 29.7 44.5

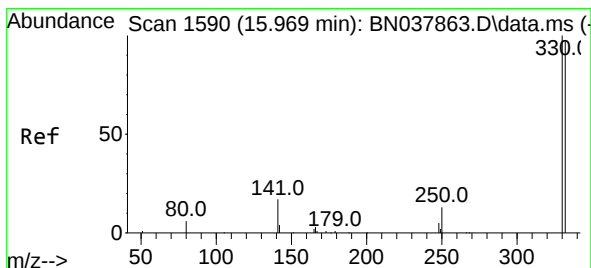
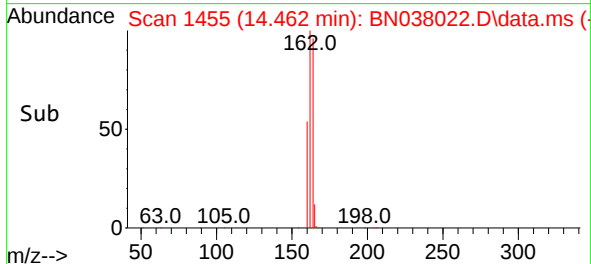
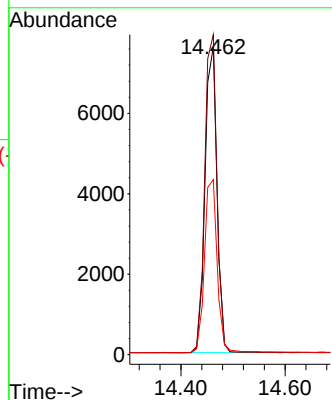
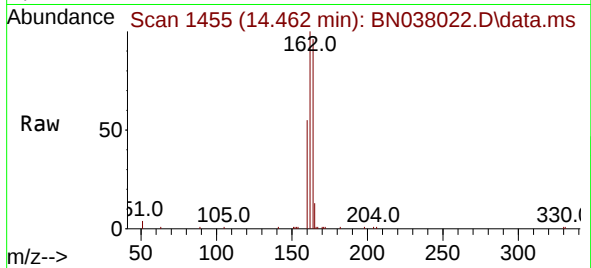




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.462 min Scan# 14  
Delta R.T. -0.011 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

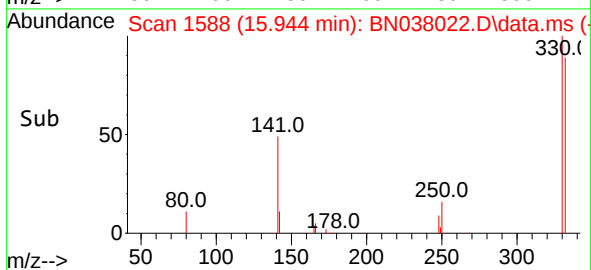
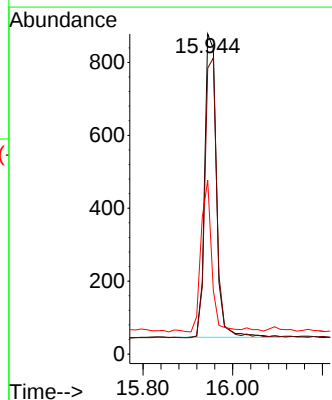
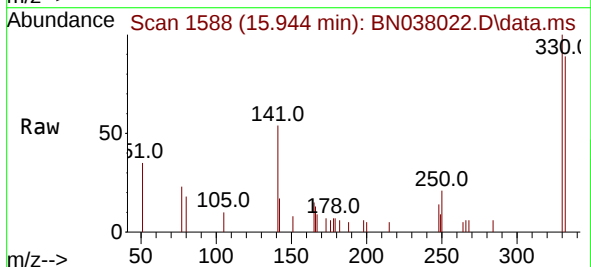
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

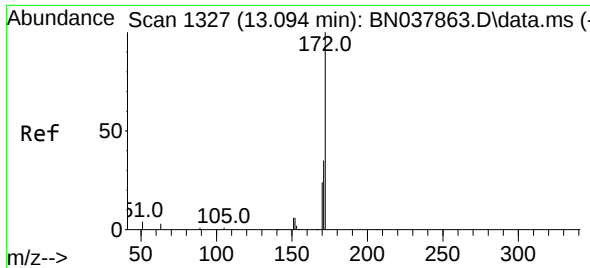
Tgt Ion:164 Resp: 12134  
Ion Ratio Lower Upper  
164 100  
162 103.9 84.8 127.2  
160 56.8 46.1 69.1



#14  
2,4,6-Tribromophenol  
Concen: 0.329 ng  
RT: 15.944 min Scan# 1588  
Delta R.T. -0.025 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:330 Resp: 1512  
Ion Ratio Lower Upper  
330 100  
332 94.4 77.2 115.8  
141 45.7 37.2 55.8

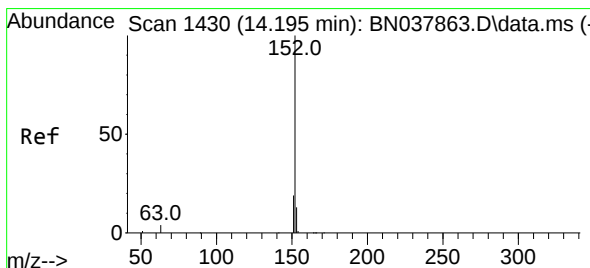
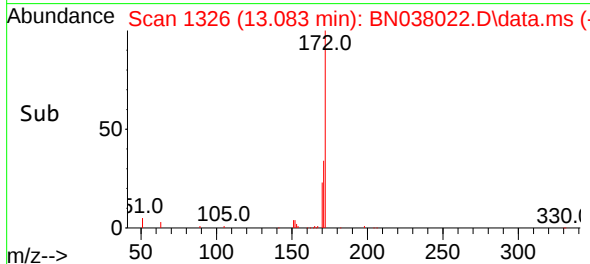
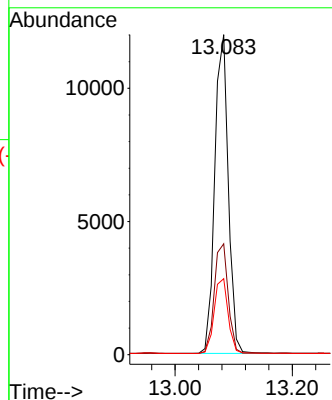
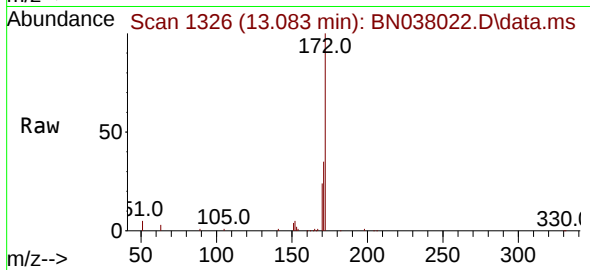




#15  
2-Fluorobiphenyl  
Concen: 0.386 ng  
RT: 13.083 min Scan# 11  
Delta R.T. -0.011 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

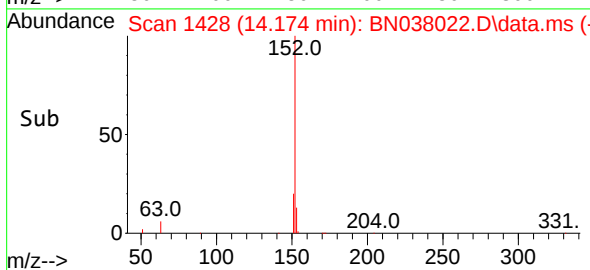
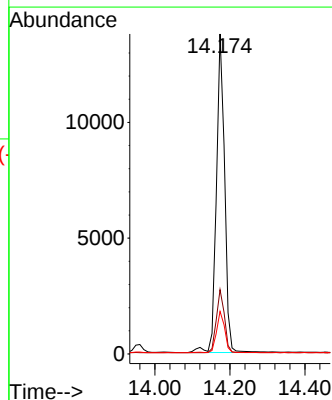
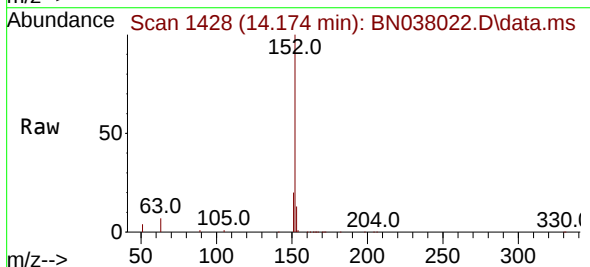
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

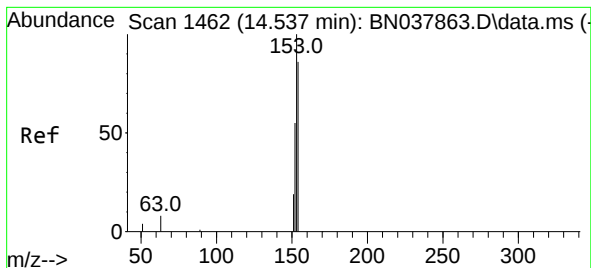
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 172   | Resp: | 19165 |
| Ion Ratio | Lower | Upper |       |
| 172       | 100   |       |       |
| 171       | 34.7  | 28.6  | 43.0  |
| 170       | 23.7  | 19.7  | 29.5  |



#16  
Acenaphthylene  
Concen: 0.382 ng  
RT: 14.174 min Scan# 1428  
Delta R.T. -0.022 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 152   | Resp: | 21062 |
| Ion Ratio | Lower | Upper |       |
| 152       | 100   |       |       |
| 151       | 19.8  | 15.8  | 23.8  |
| 153       | 13.0  | 10.5  | 15.7  |

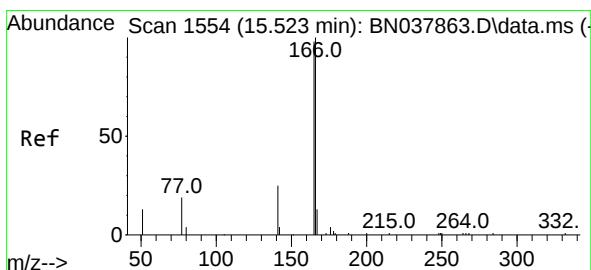
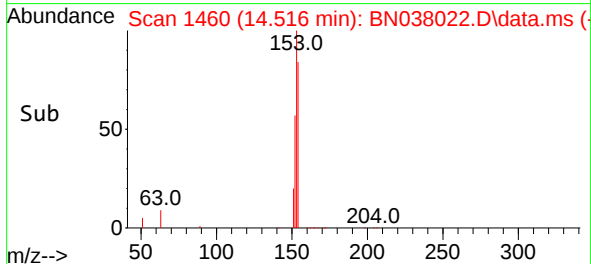
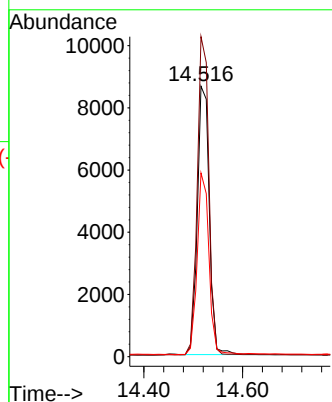
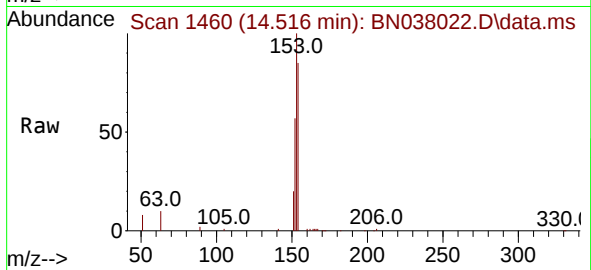




#17  
Acenaphthene  
Concen: 0.369 ng  
RT: 14.516 min Scan# 1460  
Delta R.T. -0.022 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

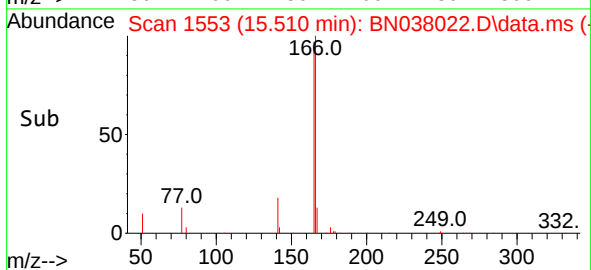
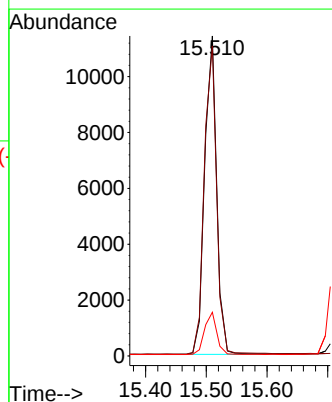
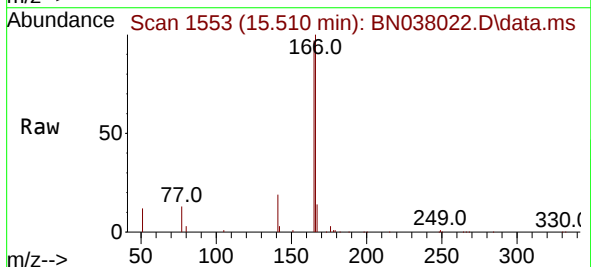
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

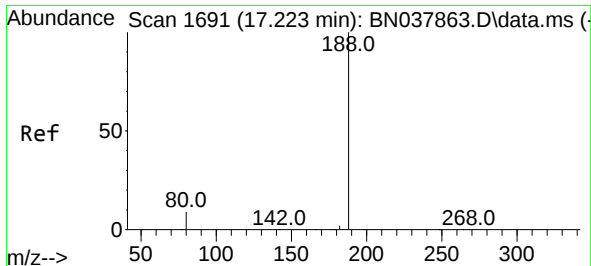
Tgt Ion:154 Resp: 14495  
Ion Ratio Lower Upper  
154 100  
153 115.5 90.5 135.7  
152 66.5 51.8 77.8



#18  
Fluorene  
Concen: 0.343 ng  
RT: 15.510 min Scan# 1553  
Delta R.T. -0.013 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:166 Resp: 16302  
Ion Ratio Lower Upper  
166 100  
165 99.1 79.0 118.4  
167 13.7 10.6 16.0





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 17.210 min Scan# 1

Delta R.T. -0.013 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

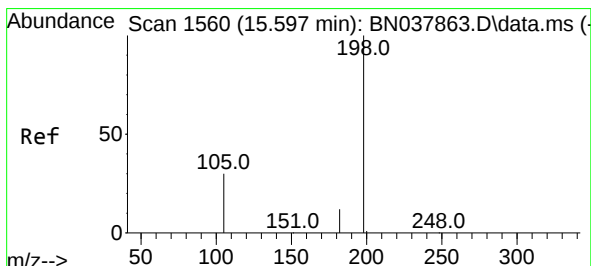
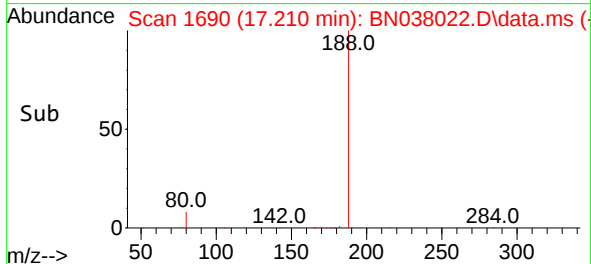
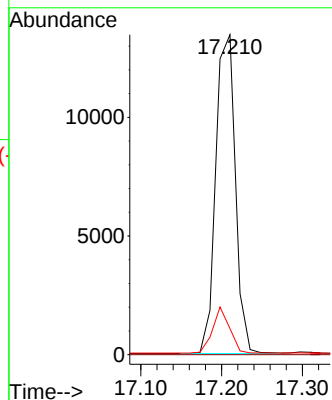
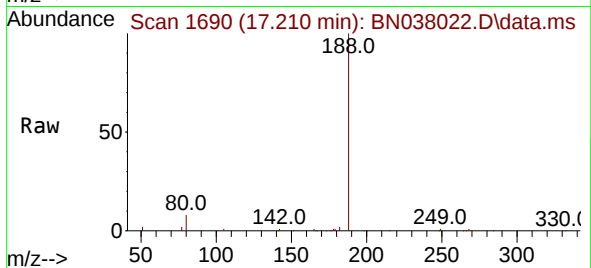
Tgt Ion:188 Resp: 22733

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 8.2 7.6 11.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.375 ng

RT: 15.584 min Scan# 1559

Delta R.T. -0.013 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

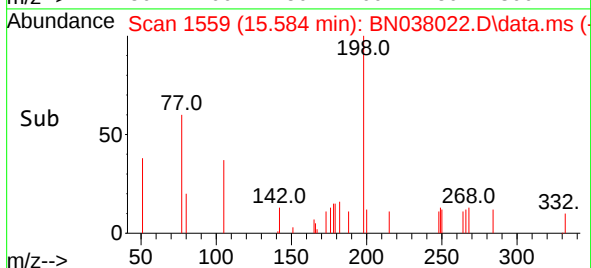
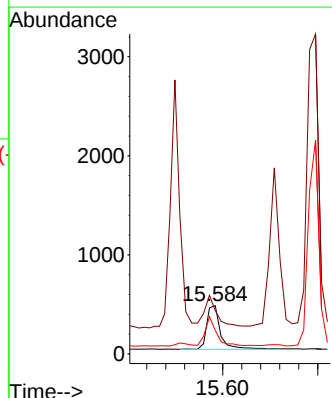
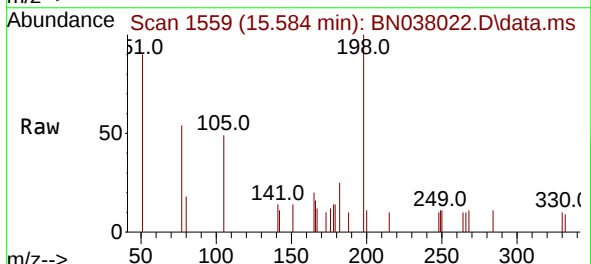
Tgt Ion:198 Resp: 897

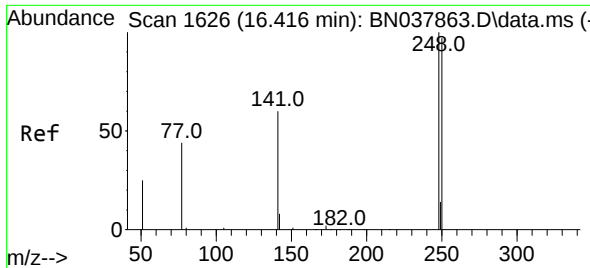
Ion Ratio Lower Upper

198 100

51 89.5 59.1 88.7#

105 49.0 41.3 61.9

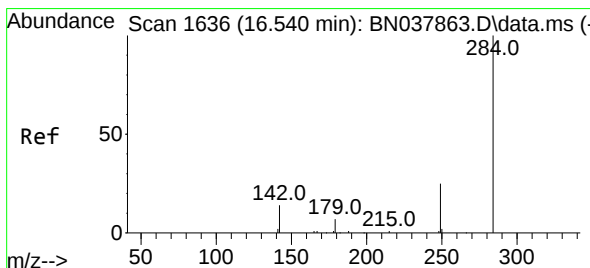
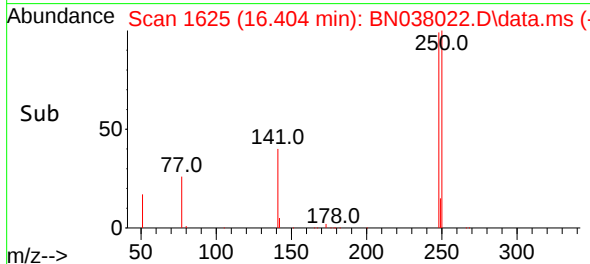
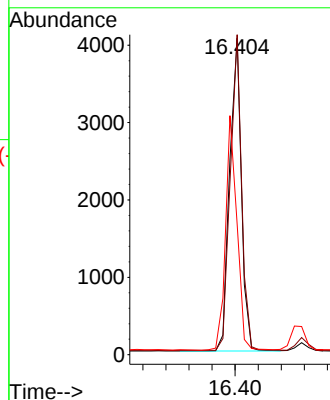
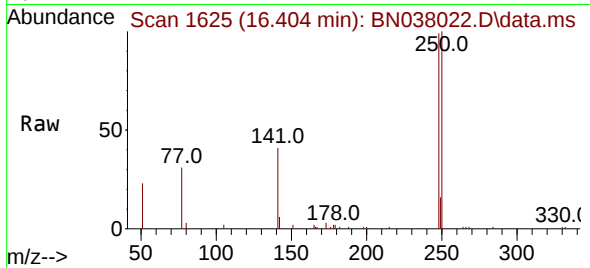




#21  
4-Bromophenyl-phenylether  
Concen: 0.385 ng  
RT: 16.404 min Scan# 1634  
Delta R.T. -0.013 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

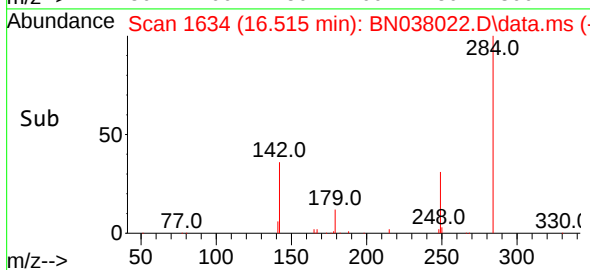
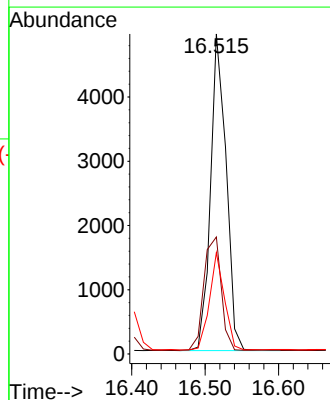
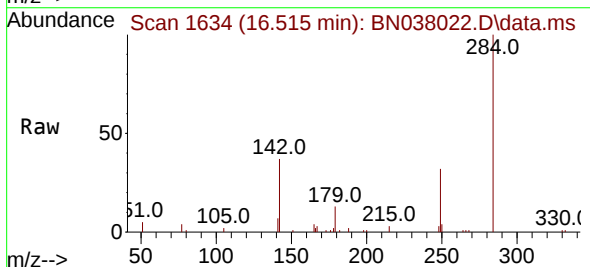
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

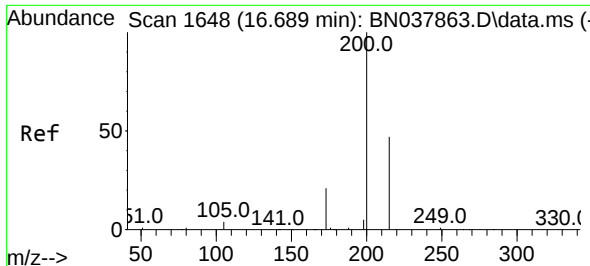
Tgt Ion:248 Resp: 5704  
Ion Ratio Lower Upper  
248 100  
250 101.1 77.6 116.4  
141 41.2 48.8 73.2#



#22  
Hexachlorobenzene  
Concen: 0.405 ng  
RT: 16.515 min Scan# 1634  
Delta R.T. -0.025 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:284 Resp: 7267  
Ion Ratio Lower Upper  
284 100  
142 39.9 30.9 46.3  
249 29.4 23.9 35.9

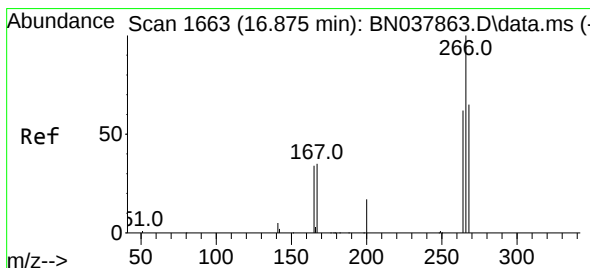
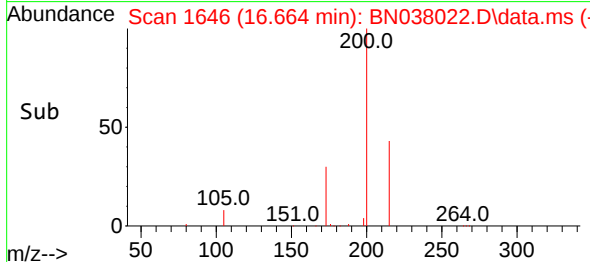
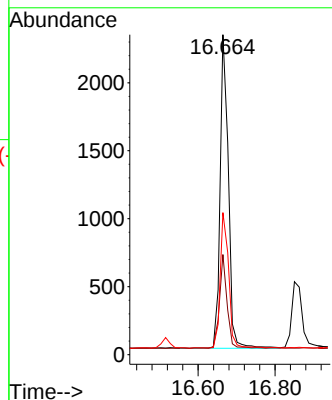
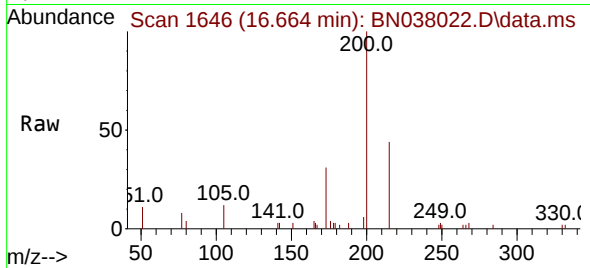




#23  
Atrazine  
Concen: 0.304 ng  
RT: 16.664 min Scan# 1646  
Delta R.T. -0.025 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

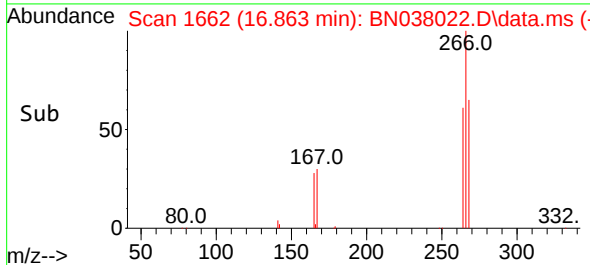
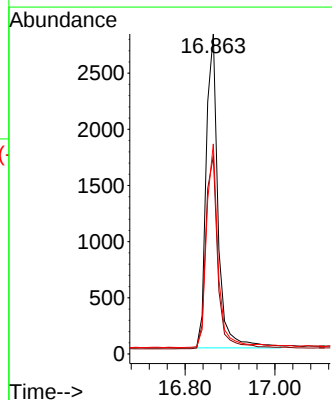
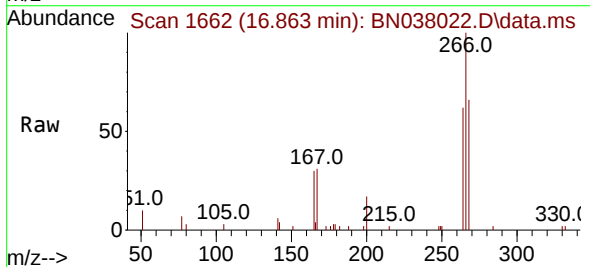
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

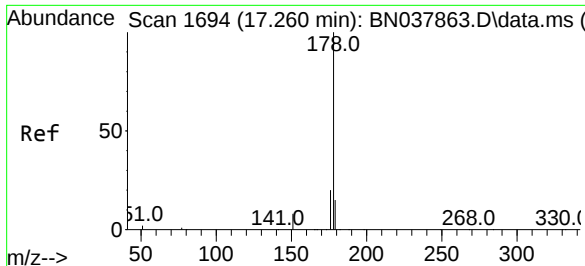
Tgt Ion:200 Resp: 3424  
Ion Ratio Lower Upper  
200 100  
173 31.3 18.3 27.5#  
215 44.4 38.6 58.0



#24  
Pentachlorophenol  
Concen: 0.833 ng  
RT: 16.863 min Scan# 1662  
Delta R.T. -0.012 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:266 Resp: 5132  
Ion Ratio Lower Upper  
266 100  
264 62.6 50.9 76.3  
268 63.9 54.3 81.5

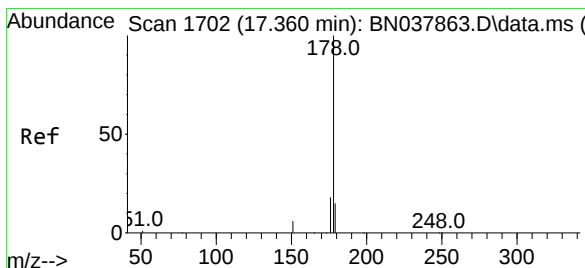
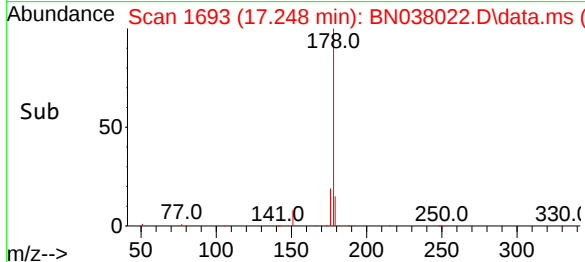
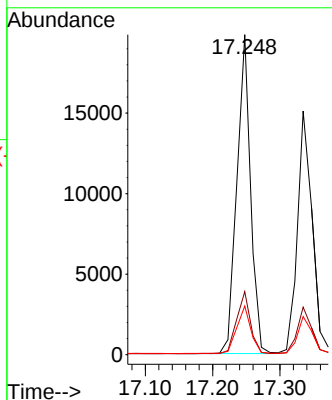
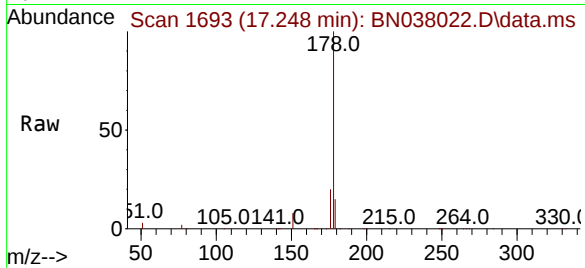




#25  
Phenanthrene  
Concen: 0.375 ng  
RT: 17.248 min Scan# 1  
Delta R.T. -0.013 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

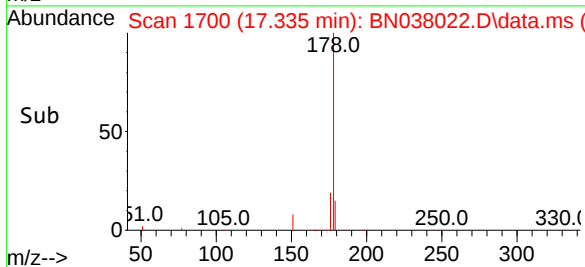
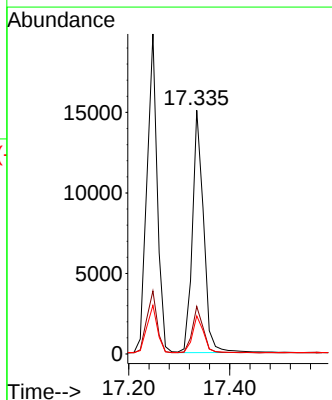
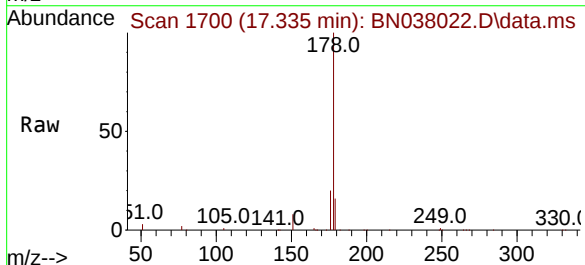
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

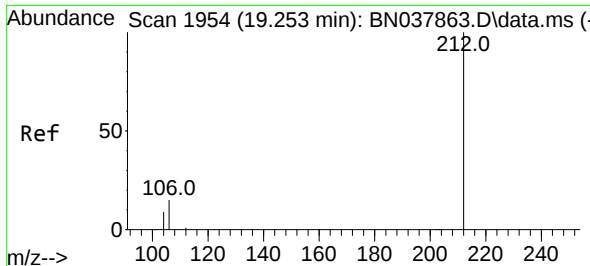
Tgt Ion:178 Resp: 28024  
Ion Ratio Lower Upper  
178 100  
176 19.6 15.7 23.5  
179 15.3 12.3 18.5



#26  
Anthracene  
Concen: 0.357 ng  
RT: 17.335 min Scan# 1700  
Delta R.T. -0.025 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:178 Resp: 23199  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.0 22.4  
179 15.3 12.3 18.5

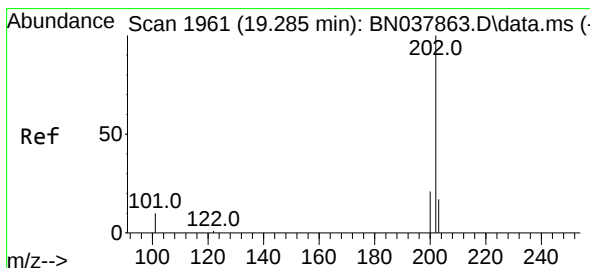
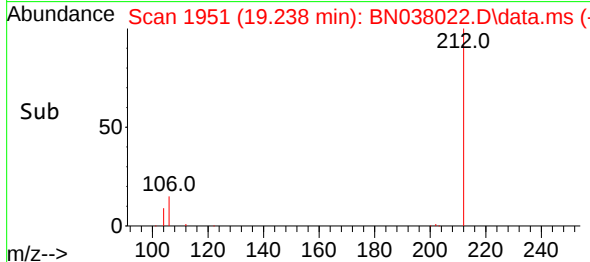
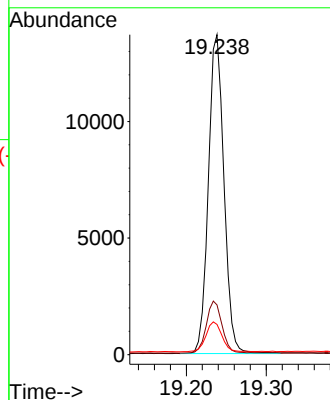
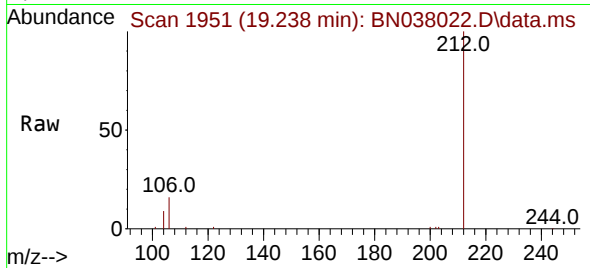




#27  
Fluoranthene-d10  
Concen: 0.323 ng  
RT: 19.238 min Scan# 1951  
Delta R.T. -0.014 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

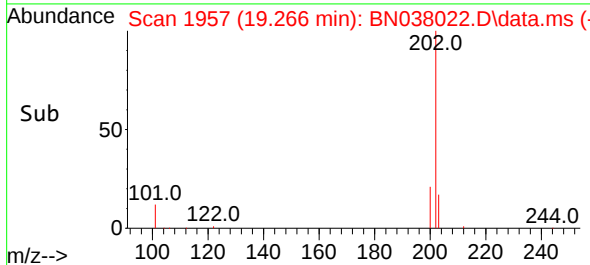
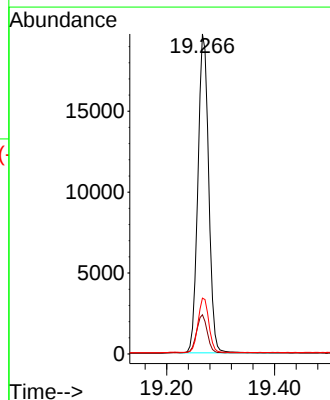
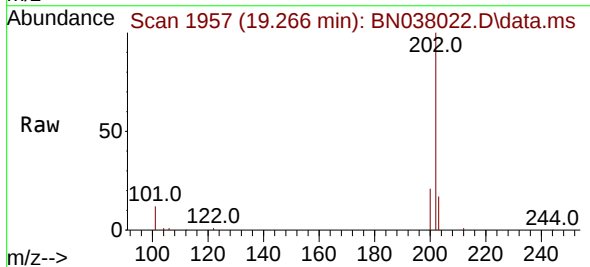
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

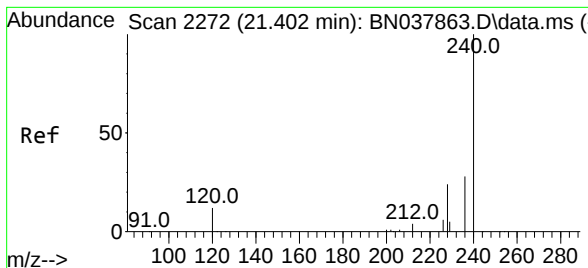
Tgt Ion:212 Resp: 18490  
Ion Ratio Lower Upper  
212 100  
106 16.3 12.6 19.0  
104 9.6 7.4 11.0



#28  
Fluoranthene  
Concen: 0.331 ng  
RT: 19.266 min Scan# 1957  
Delta R.T. -0.019 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:202 Resp: 27243  
Ion Ratio Lower Upper  
202 100  
101 12.2 9.3 13.9  
203 17.1 13.6 20.4





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.384 min Scan# 21

Delta R.T. -0.018 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

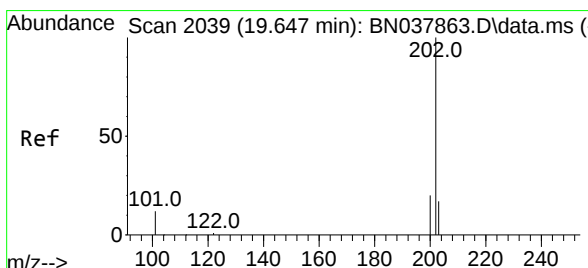
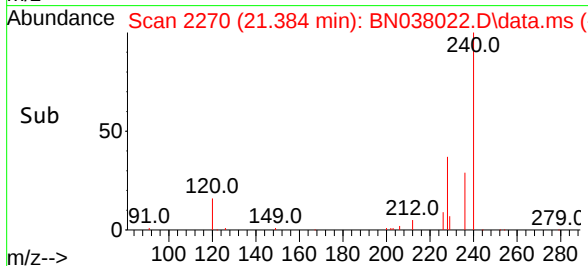
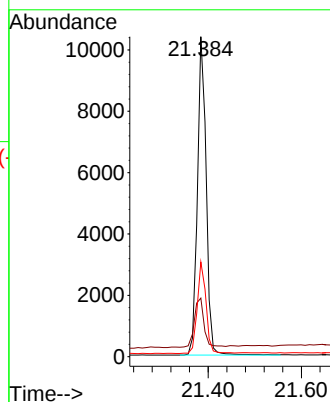
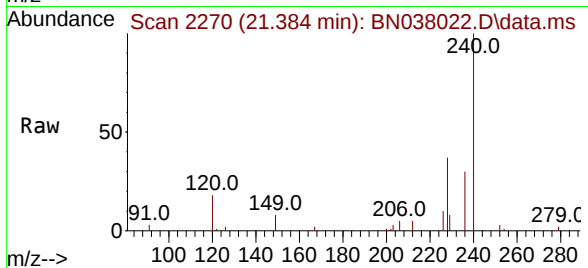
Tgt Ion:240 Resp: 13562

Ion Ratio Lower Upper

240 100

120 18.3 11.4 17.2#

236 29.6 23.0 34.6



#30

Pyrene

Concen: 0.487 ng

RT: 19.629 min Scan# 2035

Delta R.T. -0.019 min

Lab File: BN038022.D

Acq: 06 Oct 2025 23:32

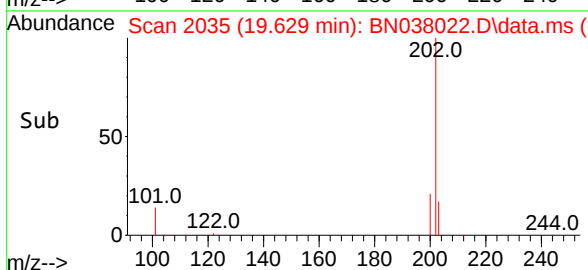
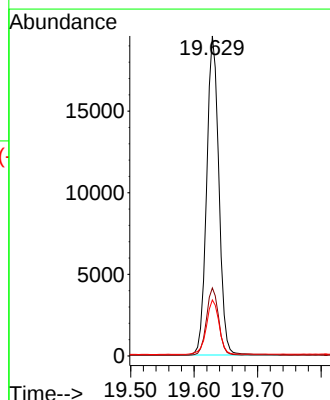
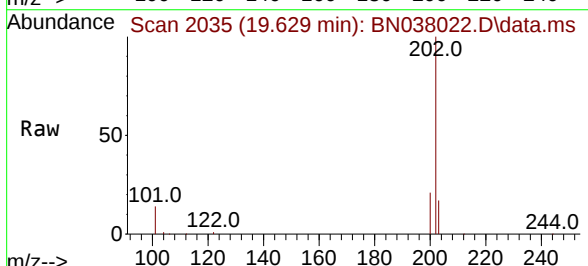
Tgt Ion:202 Resp: 26066

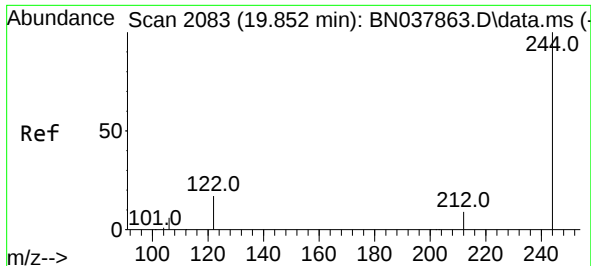
Ion Ratio Lower Upper

202 100

200 20.9 16.7 25.1

203 17.6 14.2 21.4

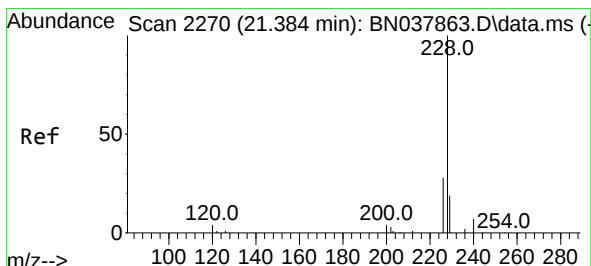
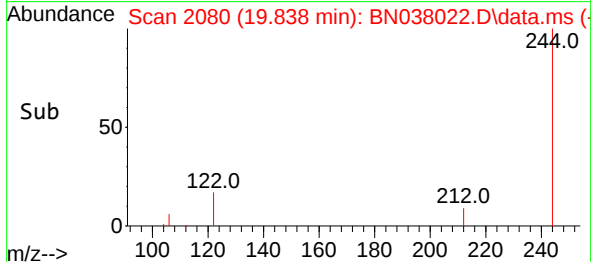
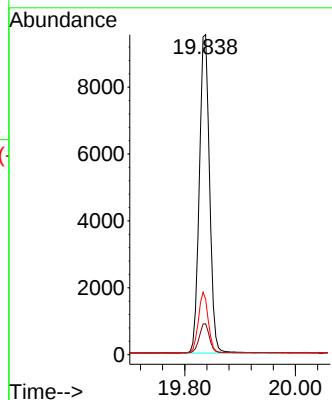
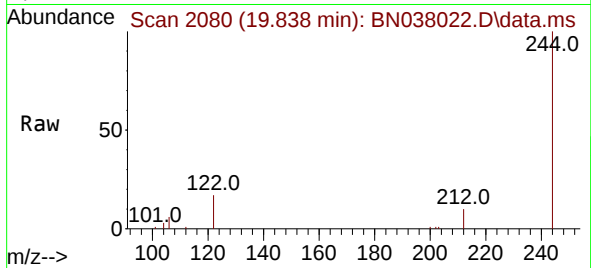




#31  
Terphenyl-d14  
Concen: 0.455 ng  
RT: 19.838 min Scan# 2083  
Delta R.T. -0.014 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

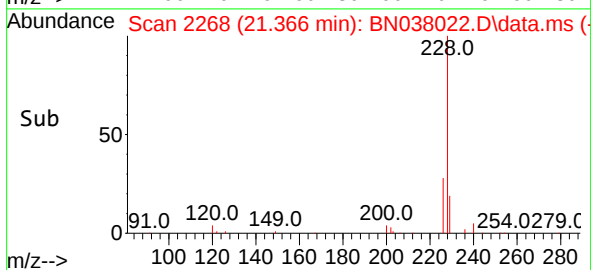
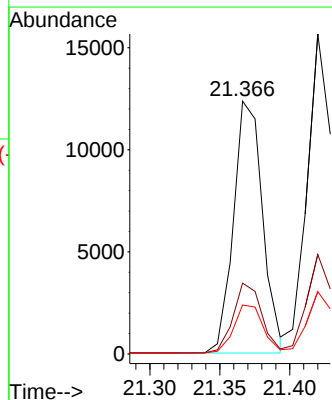
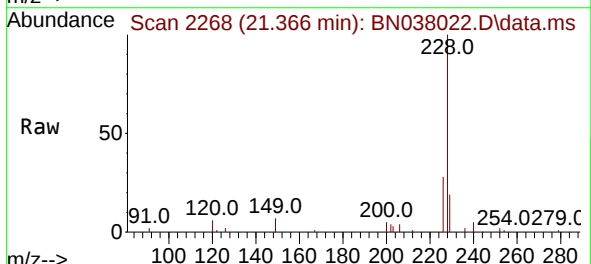
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

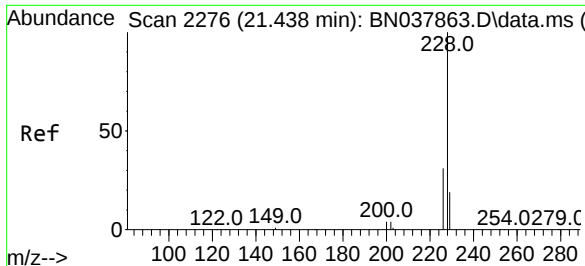
Tgt Ion:244 Resp: 12280  
Ion Ratio Lower Upper  
244 100  
212 9.6 7.6 11.4  
122 17.3 13.9 20.9



#32  
Benzo(a)anthracene  
Concen: 0.377 ng  
RT: 21.366 min Scan# 2268  
Delta R.T. -0.018 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:228 Resp: 17879  
Ion Ratio Lower Upper  
228 100  
226 28.0 22.6 33.8  
229 19.4 15.6 23.4

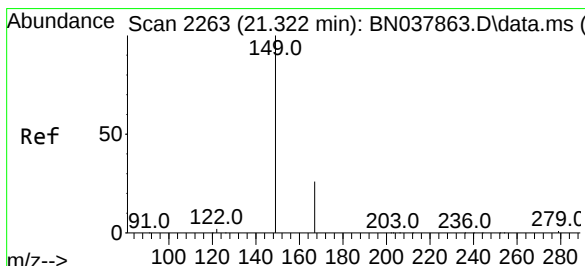
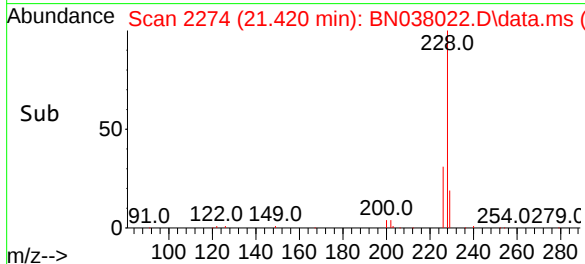
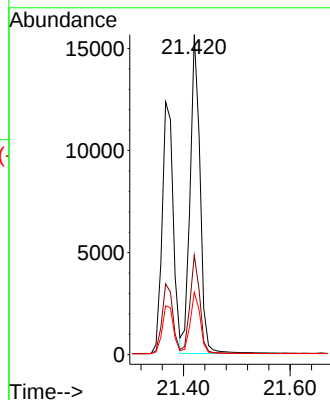
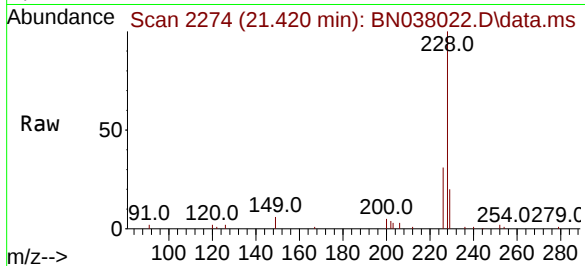




#33  
Chrysene  
Concen: 0.394 ng  
RT: 21.420 min Scan# 21  
Delta R.T. -0.018 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

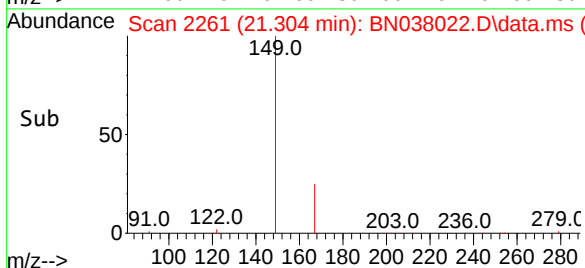
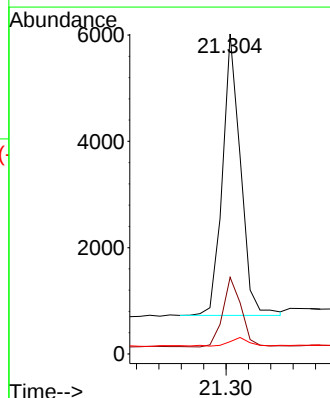
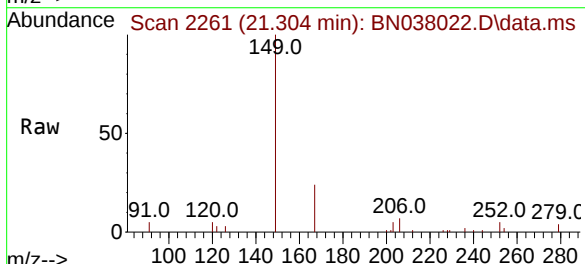
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

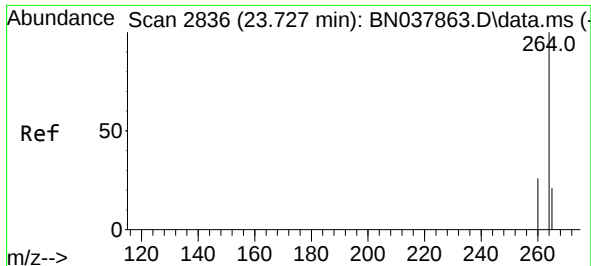
Tgt Ion:228 Resp: 20217  
Ion Ratio Lower Upper  
228 100  
226 31.1 24.6 37.0  
229 19.5 15.6 23.4



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.317 ng  
RT: 21.304 min Scan# 2261  
Delta R.T. -0.018 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:149 Resp: 5945  
Ion Ratio Lower Upper  
149 100  
167 25.4 20.4 30.6  
279 3.0 2.4 3.6

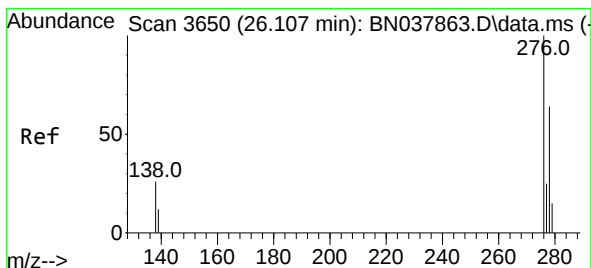
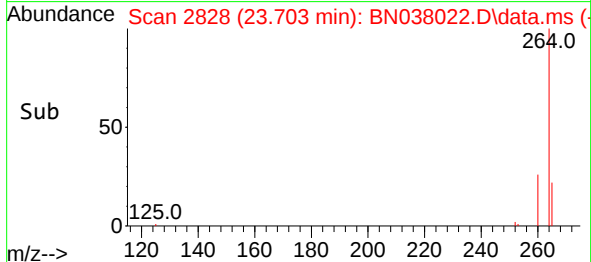
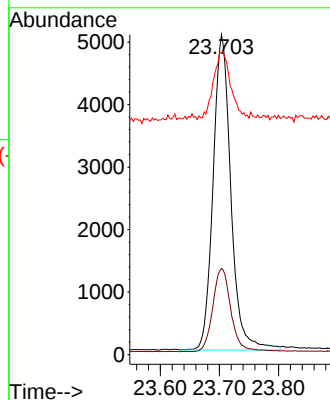
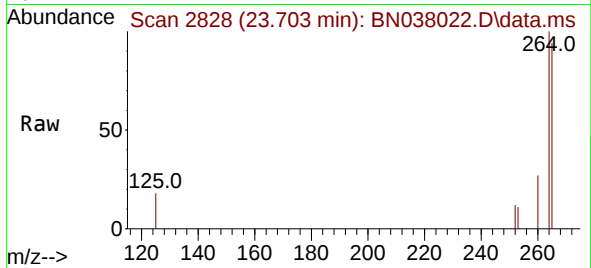




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.703 min Scan# 21  
Delta R.T. -0.024 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

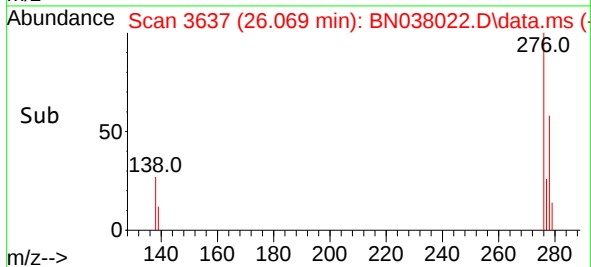
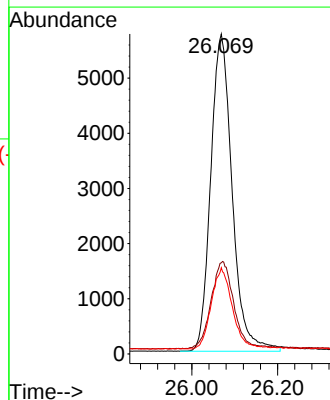
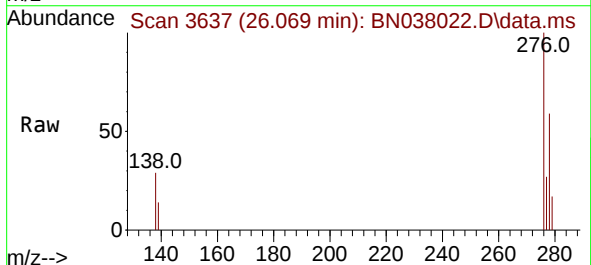
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

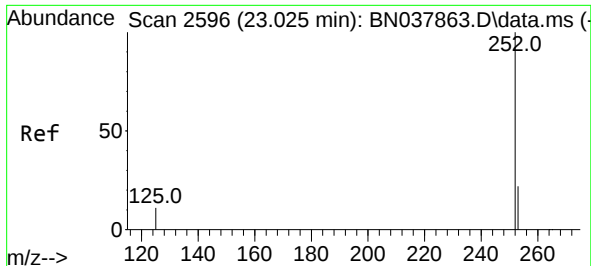
Tgt Ion:264 Resp: 10530  
Ion Ratio Lower Upper  
264 100  
260 26.9 21.5 32.3  
265 94.1 53.8 80.6#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.414 ng  
RT: 26.069 min Scan# 3637  
Delta R.T. -0.038 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

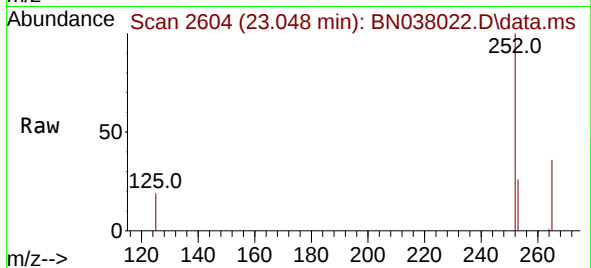
Tgt Ion:276 Resp: 19936  
Ion Ratio Lower Upper  
276 100  
138 29.0 21.4 32.0  
277 25.0 20.3 30.5



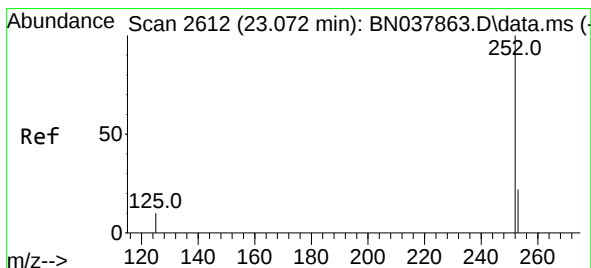
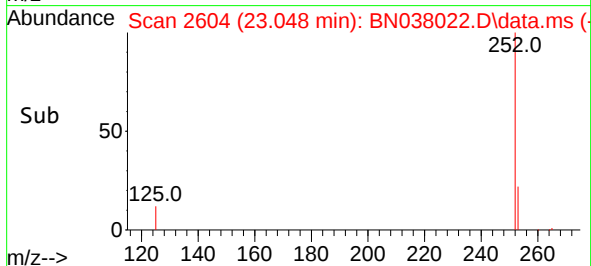
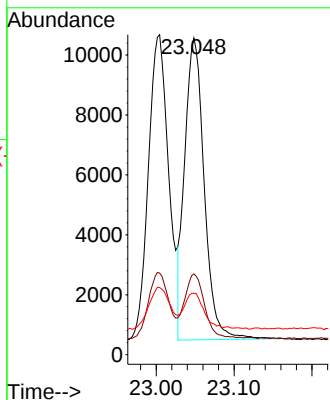


#37  
Benzo(b)fluoranthene  
Concen: 0.386 ng  
RT: 23.048 min Scan# 2604  
Delta R.T. 0.023 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

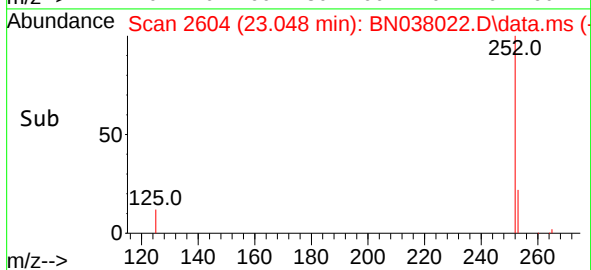
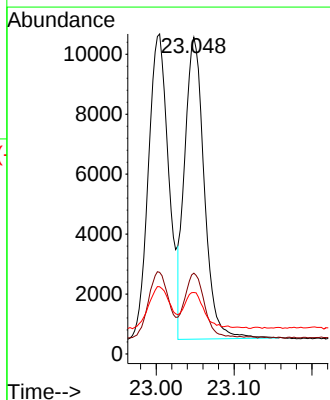
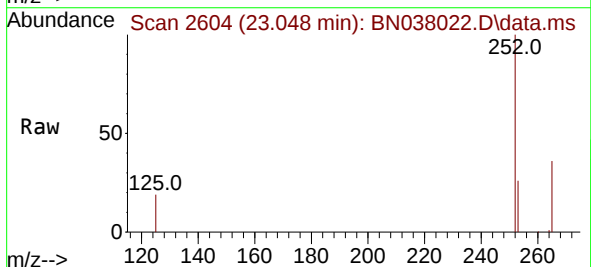


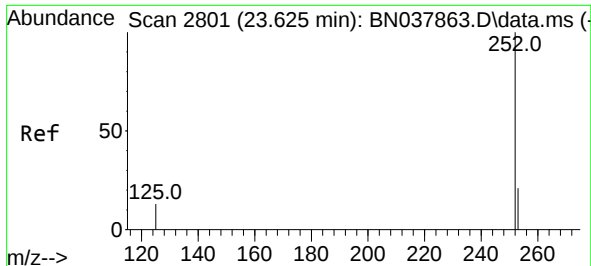
Tgt Ion:252 Resp: 17538  
Ion Ratio Lower Upper  
252 100  
253 25.5 19.4 29.0  
125 19.4 13.0 19.4



#38  
Benzo(k)fluoranthene  
Concen: 0.384 ng  
RT: 23.048 min Scan# 2604  
Delta R.T. -0.024 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Tgt Ion:252 Resp: 17538  
Ion Ratio Lower Upper  
252 100  
253 25.5 19.5 29.3  
125 19.4 13.0 19.4

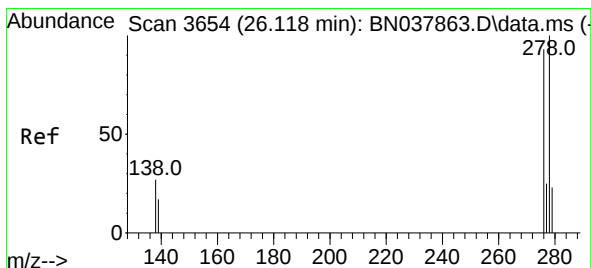
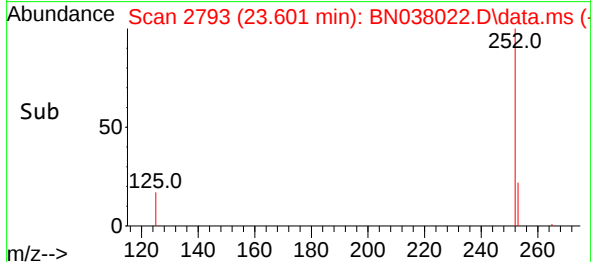
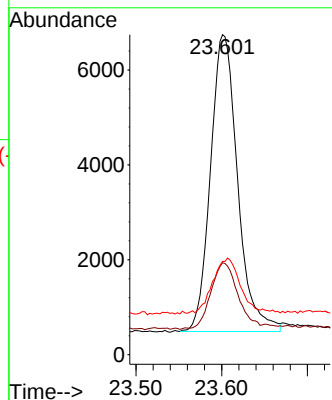
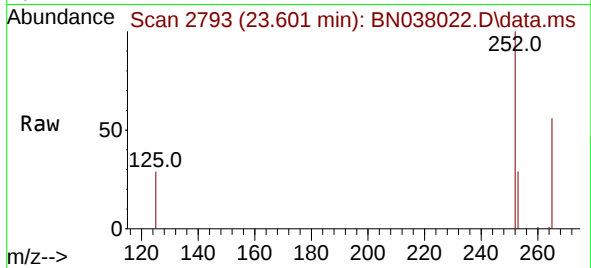




#39  
Benzo(a)pyrene  
Concen: 0.383 ng  
RT: 23.601 min Scan# 21  
Delta R.T. -0.024 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

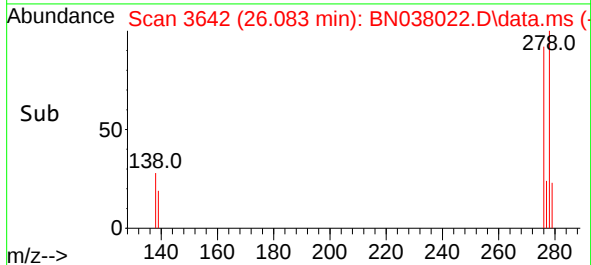
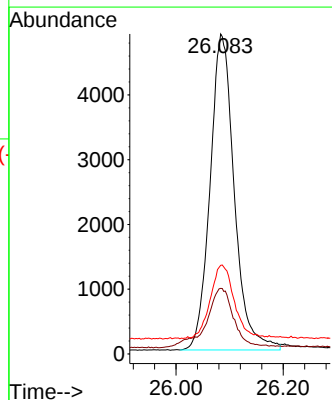
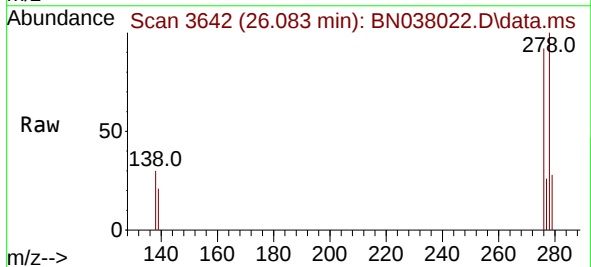
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

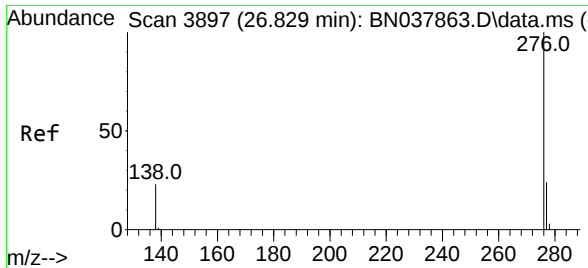
Tgt Ion:252 Resp: 13760  
Ion Ratio Lower Upper  
252 100  
253 28.7 20.6 30.8  
125 29.2 16.7 25.1#



#40  
Dibenzo(a,h)anthracene  
Concen: 0.407 ng  
RT: 26.083 min Scan# 3642  
Delta R.T. -0.035 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

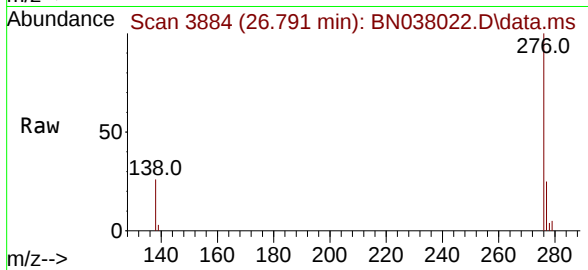
Tgt Ion:278 Resp: 15307  
Ion Ratio Lower Upper  
278 100  
139 20.5 15.4 23.2  
279 27.7 20.8 31.2





#41  
Benzo(g,h,i)perylene  
Concen: 0.425 ng  
RT: 26.791 min Scan# 3884  
Delta R.T. -0.038 min  
Lab File: BN038022.D  
Acq: 06 Oct 2025 23:32

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 16776 |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 25.1  | 20.2  | 30.4  |
| 138      | 26.2  | 19.8  | 29.8  |

