

**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 : Q2316**  
**ATTENTION : Ernie Wu**



**Laboratory Certification ID # 20012**



|                                             |     |
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## Cover Page

**Order ID :** Q2316

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

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

**Lab Sample Number**

Q2316-01  
Q2316-02

**Client Sample Number**

RW8-SP100-20250612  
RW8-SP303-20250612

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

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

Date: 6/23/2025

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 # Q2316**

**Test Name: SVOC-SIMGroup1**

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

2 Water samples were received on 06/12/2025.

### **B. Parameters**

According to the Chain of Custody document, the following analyses were requested: Metals Group4, SVOC-SIMGroup1, TDS and TSS. This data package contains results for SVOC-SIMGroup1.

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

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

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

The Holding Times were met for all analysis.

The Surrogate recoveries met the acceptable criteria.

The Internal Standards Areas met the acceptable requirements except for PB168476BS , Not associated, therefor no further action was taken.

The Retention Times were acceptable for all samples.

The RPD met criteria.

The Blank Spike met requirements for all samples.

The Blank Spike Duplicate met requirements for all samples.

The Blank analysis did not indicate the presence of lab contamination. The Initial Calibration met the requirements.

The Continuous Calibration met the requirements.

The Tuning criteria met requirements.

### **E. Additional Comments:**

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.

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount



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for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

**F. Manual Integration Comments:**

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

---

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\_\_\_\_\_

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## 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: Q2316

MATRIX: Water

METHOD: 8270-Modified/3510

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

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

|     |                                                                                                                                                                                                               | NA | NO | YES |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----|----|-----|
| 9.  | Internal Standard Area/Retention Time Shift Meet Criteria Comments: The Internal Standards Areas met the acceptable requirements except for PB168476BS ,Not associated, therefor no further action was taken. |    |    | ✓   |
| 10. | Extraction Holding Time Met<br><br>If not met, list number of days exceeded for each sample:                                                                                                                  |    |    | ✓   |
| 11. | Analysis Holding Time Met<br><br>If not met, list number of days exceeded for each sample:                                                                                                                    |    |    | ✓   |

**ADDITIONAL COMMENTS:**

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.

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

Please use %D calculated based on Avg RF and CCRF for all compounds using Average Response Factor when the %RSD value for a compound is <20% for the Initial Calibration curve and use %D calculated based on Amount added and Calculated amount for all compounds using Linear Regression when the %RSD value for a compound is > 20% for the Initial Calibration curve for SW-846 analysis.

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

\_\_\_\_\_  
Date

APPENDIX A

**QA REVIEW GENERAL DOCUMENTATION**

Project #: Q2316

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: 06/23/2025

## LAB CHRONICLE

|                 |                      |                   |                               |
|-----------------|----------------------|-------------------|-------------------------------|
| <b>OrderID:</b> | Q2316                | <b>OrderDate:</b> | 6/12/2025 3:59:00 PM          |
| <b>Client:</b>  | Tetra Tech NUS, Inc. | <b>Project:</b>   | NWIRP Bethpage 112G08005-WE13 |
| <b>Contact:</b> | Ernie Wu             | <b>Location:</b>  | D41                           |

| LabID           | ClientID                             | Matrix       | Test           | Method        | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|--------------------------------------|--------------|----------------|---------------|-----------------|-----------|-----------|-----------------|
| <b>Q2316-01</b> | <b>RW8-SP100-2025061</b><br><b>2</b> | <b>Water</b> |                |               | <b>06/12/25</b> |           |           | <b>06/12/25</b> |
|                 |                                      |              | SVOC-SIMGroup1 | 8270-Modified |                 | 06/13/25  | 06/15/25  |                 |
| <b>Q2316-02</b> | <b>RW8-SP303-2025061</b><br><b>2</b> | <b>Water</b> |                |               | <b>06/12/25</b> |           |           | <b>06/12/25</b> |
|                 |                                      |              | SVOC-SIMGroup1 | 8270-Modified |                 | 06/13/25  | 06/15/25  |                 |



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**Hit Summary Sheet**  
**SW-846**

**SDG No.:** Q2316

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

| Sample ID            | Client ID | Matrix | Parameter | Concentration | C    | MDL | LOD | RDL | Units |
|----------------------|-----------|--------|-----------|---------------|------|-----|-----|-----|-------|
| Client ID :          |           |        |           | 0.000         |      |     |     |     |       |
| Total Svoc :         |           |        |           |               | 0.00 |     |     |     |       |
| Total Concentration: |           |        |           |               | 0.00 |     |     |     |       |





# QC SUMMARY

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### Surrogate Summary

SW-846

SDG No.: Q2316

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified

| Lab Sample ID | Client ID          | Parameter               | Spike (PPM) | Result (PPM) | Recovery (%) | Qual | Limits (%) |      |
|---------------|--------------------|-------------------------|-------------|--------------|--------------|------|------------|------|
|               |                    |                         |             |              |              |      | Low        | High |
| PB168476BL    | PB168476BL         | 2-Methylnaphthalene-d10 | 0.4         | 0.33         | 83           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.36         | 90           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.29         | 74           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.34         | 84           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.38         | 95           |      | 58         | 132  |
| PB168476BS    | PB168476BS         | 2-Methylnaphthalene-d10 | 0.4         | 0.43         | 108          |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.34         | 85           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.38         | 94           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.39         | 97           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.38         | 95           |      | 58         | 132  |
| PB168476BSD   | PB168476BSD        | 2-Methylnaphthalene-d10 | 0.4         | 0.40         | 99           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.32         | 81           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.34         | 85           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.36         | 89           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.36         | 90           |      | 58         | 132  |
| Q2316-01      | RW8-SP100-20250612 | 2-Methylnaphthalene-d10 | 0.4         | 0.29         | 72           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.37         | 93           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.26         | 64           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.30         | 75           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.40         | 100          |      | 58         | 132  |
| Q2316-02      | RW8-SP303-20250612 | 2-Methylnaphthalene-d10 | 0.4         | 0.26         | 65           |      | 30         | 150  |
|               |                    | Fluoranthene-d10        | 0.4         | 0.36         | 89           |      | 30         | 150  |
|               |                    | Nitrobenzene-d5         | 0.4         | 0.24         | 61           |      | 55         | 111  |
|               |                    | 2-Fluorobiphenyl        | 0.4         | 0.27         | 67           |      | 53         | 106  |
|               |                    | Terphenyl-d14           | 0.4         | 0.41         | 102          |      | 58         | 132  |

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

SW-846

SDG No.: Q2316

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037280.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |             |       |        |      |     |     |      | Qual |     | High   |     |
| PB168476BS    | 1,4-Dioxane | 0.4   | 0.30   | ug/L | 75  |     |      |      | 70  | 130    |     |

**Laboratory Control Sample/Laboratory Control Sample Duplicate Summary**

SW-846

SDG No.: Q2316

Client: Tetra Tech NUS, Inc.

Analytical Method: 8270-Modified DataFile: BN037281.D

| Lab Sample ID | Parameter   | Spike | Result | Unit | Rec | RPD | Qual | RPD  | Low | Limits | RPD |
|---------------|-------------|-------|--------|------|-----|-----|------|------|-----|--------|-----|
|               |             |       |        |      |     |     |      | Qual |     | High   |     |
| PB168476BSD   | 1,4-Dioxane | 0.4   | 0.28   | ug/L | 70  | 7   |      |      | 70  | 130    | 20  |

4B

SEMIVOLATILE METHOD BLANK SUMMARY

EPA SAMPLE NO.

PB168476BL

Lab Name: CHEMTECH

Contract: TETR06

Lab Code: CHEM Case No.: Q2316

SAS No.: Q2316 SDG NO.: Q2316

Lab File ID: BN037274.D

Lab Sample ID: PB168476BL

Instrument ID: BNA\_N

Date Extracted: 06/13/2025

Matrix: (soil/water) Water

Date Analyzed: 06/14/2025

Level: (low/med) LOW

Time Analyzed: 23:07

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 |
|--------------------|------------------|----------------|------------------|
| PB168476BS         | PB168476BS       | BN037280.D     | 06/15/2025       |
| RW8-SP100-20250612 | Q2316-01         | BN037278.D     | 06/15/2025       |
| RW8-SP303-20250612 | Q2316-02         | BN037279.D     | 06/15/2025       |
| PB168476BSD        | PB168476BSD      | BN037281.D     | 06/15/2025       |

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



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2316SDG NO.: Q2316Lab File ID: BN037223.DDFTPP Injection Date: 06/13/2025Instrument ID: BNA\_NDFTPP Injection Time: 11:34

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 0.7 ( 1.1 ) 1        |
| 69  | Mass 69 relative abundance         | 100                  |
| 70  | Less than 2.0% of mass 69          | 0.3 ( 0.4 ) 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            | 6.7                  |
| 365 | Greater than 1% of mass 198        | 5.3                  |
| 441 | Present, but less than mass 443    | 90.1                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 12.6 (20.1) 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 |
|-------------------|------------------|----------------|------------------|------------------|
| SSTDICC0.1        | SSTDICC0.1       | BN037225.D     | 06/13/2025       | 13:33            |
| SSTDICC0.2        | SSTDICC0.2       | BN037226.D     | 06/13/2025       | 14:10            |
| SSTDICCC0.4       | SSTDICCC0.4      | BN037227.D     | 06/13/2025       | 14:46            |
| SSTDICC0.8        | SSTDICC0.8       | BN037228.D     | 06/13/2025       | 15:22            |
| SSTDICC1.6        | SSTDICC1.6       | BN037229.D     | 06/13/2025       | 15:59            |
| SSTDICC3.2        | SSTDICC3.2       | BN037230.D     | 06/13/2025       | 16:35            |
| SSTDICC5.0        | SSTDICC5.0       | BN037231.D     | 06/13/2025       | 17:11            |
| SSTDCCC0.4EC      | SSTDCCC0.4       | BN037238.D     | 06/13/2025       | 22:01            |



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5B

SEMIVOLATILE ORGANIC INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: CHEMTECHContract: TETR06Lab Code: CHEMSAS No.: Q2316SDG NO.: Q2316Lab File ID: BN037272.DDFTPP Injection Date: 06/14/2025Instrument ID: BNA\_NDFTPP Injection Time: 21:51

| m/e | ION ABUNDANCE CRITERIA             | % RELATIVE ABUNDANCE |
|-----|------------------------------------|----------------------|
| 68  | Less than 2.0% of mass 69          | 1 ( 1.5 ) 1          |
| 69  | Mass 69 relative abundance         | 100                  |
| 70  | Less than 2.0% of mass 69          | 0.4 ( 0.6 ) 1        |
| 197 | Less than 2.0% of mass 198         | 0.0                  |
| 198 | Base Peak, 100% relative abundance | 100                  |
| 199 | 5.0 to 9.0% of mass 198            | 7                    |
| 365 | Greater than 1% of mass 198        | 5.1                  |
| 441 | Present, but less than mass 443    | 82.8                 |
| 442 | Greater than 50% of mass 198       | 100                  |
| 443 | 15.0 - 24.0% of mass 442           | 12 ( 20.1 ) 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       | BN037273.D     | 06/14/2025       | 22:31            |
| PB168476BL         | PB168476BL       | BN037274.D     | 06/14/2025       | 23:07            |
| RW8-SP100-20250612 | Q2316-01         | BN037278.D     | 06/15/2025       | 01:30            |
| RW8-SP303-20250612 | Q2316-02         | BN037279.D     | 06/15/2025       | 02:06            |
| PB168476BS         | PB168476BS       | BN037280.D     | 06/15/2025       | 02:42            |
| PB168476BSD        | PB168476BSD      | BN037281.D     | 06/15/2025       | 03:18            |
| SSTDCCC0.4EC       | SSTDCCC0.4       | BN037282.D     | 06/15/2025       | 03:54            |

8B

SEMIVOLATILE INTERNAL STANDARD AREA AND RT SUMMARY

Lab Name: CHEMTECH

Lab Code: CHEM Case No.: Q2316 SAS No.: Q2316 SDG NO.: Q2316

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037273.D Time Analyzed: 22:31

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           | 1389                | 7.575 | 3410                | 10.35  | 1759                | 14.22  |
| UPPER LIMIT           | 2778                | 8.075 | 6820                | 10.851 | 3518                | 14.724 |
| LOWER LIMIT           | 694.5               | 7.075 | 1705                | 9.851  | 879.5               | 13.724 |
| EPA SAMPLE NO.        |                     |       |                     |        |                     |        |
| 01 PB168476BL         | 1111                | 7.58  | 2537                | 10.36  | 1345                | 14.22  |
| 02 PB168476BS         | 1101                | 7.58  | 2637                | 10.35  | 1350                | 14.22  |
| 03 PB168476BSD        | 1070                | 7.58  | 2630                | 10.35  | 1332                | 14.22  |
| 04 RW8-SP100-20250612 | 1039                | 7.58  | 2587                | 10.35  | 1385                | 14.22  |
| 05 RW8-SP303-20250612 | 1035                | 7.58  | 2641                | 10.35  | 1419                | 14.22  |

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: CHEMTECH

Lab Code: CHEM Case No.: Q2316 SAS No.: Q2316 SDG NO.: Q2316

EPA Sample No.: SSTDCCC0.4 Date Analyzed: 06/14/2025

Lab File ID: BN037273.D Time Analyzed: 22:31

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           | 3220                | 16.971 | 2454                | 21.171 | 2514                | 23.357 |
| UPPER LIMIT           | 6440                | 17.471 | 4908                | 21.671 | 5028                | 23.857 |
| LOWER LIMIT           | 1610                | 16.471 | 1227                | 20.671 | 1257                | 22.857 |
| EPA SAMPLE NO.        |                     |        |                     |        |                     |        |
| 01 PB168476BL         | 2242                | 16.98  | 1645                | 21.17  | 1590                | 23.36  |
| 02 PB168476BS         | 2251                | 16.97  | 1528                | 21.17  | 1224 *              | 23.36  |
| 03 PB168476BSD        | 2256                | 16.97  | 1565                | 21.17  | 1276                | 23.35  |
| 04 RW8-SP100-20250612 | 2353                | 16.98  | 1786                | 21.17  | 1731                | 23.35  |
| 05 RW8-SP303-20250612 | 2526                | 16.97  | 1833                | 21.17  | 1767                | 23.36  |

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: | 06/12/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 06/12/25       |
| Client Sample ID:  | RW8-SP100-20250612            | SDG No.:        | Q2316          |
| Lab Sample ID:     | Q2316-01                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 990      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 |
| BN037278.D        | 1         | 06/13/25 11:00 | 06/15/25 01:30 | PB168476      |

| 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 | 0.29  |           | 30 - 150 |      | 72%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.37  |           | 30 - 150 |      | 93%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.26  |           | 55 - 111 |      | 64%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.30  |           | 53 - 106 |      | 75%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.40  |           | 58 - 132 |      | 100%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1040  | 7.575     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 2590  | 10.351    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 1390  | 14.224    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 2350  | 16.984    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 1790  | 21.171    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 1730  | 23.354    |          |      |            |          |

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\BN061325\  
Data File : BN037278.D  
Acq On : 15 Jun 2025 01:30  
Operator : RC/JU  
Sample : Q2316-01  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP100-20250612

Quant Time: Jun 16 02:46:50 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 2025  
Response via : Initial Calibration

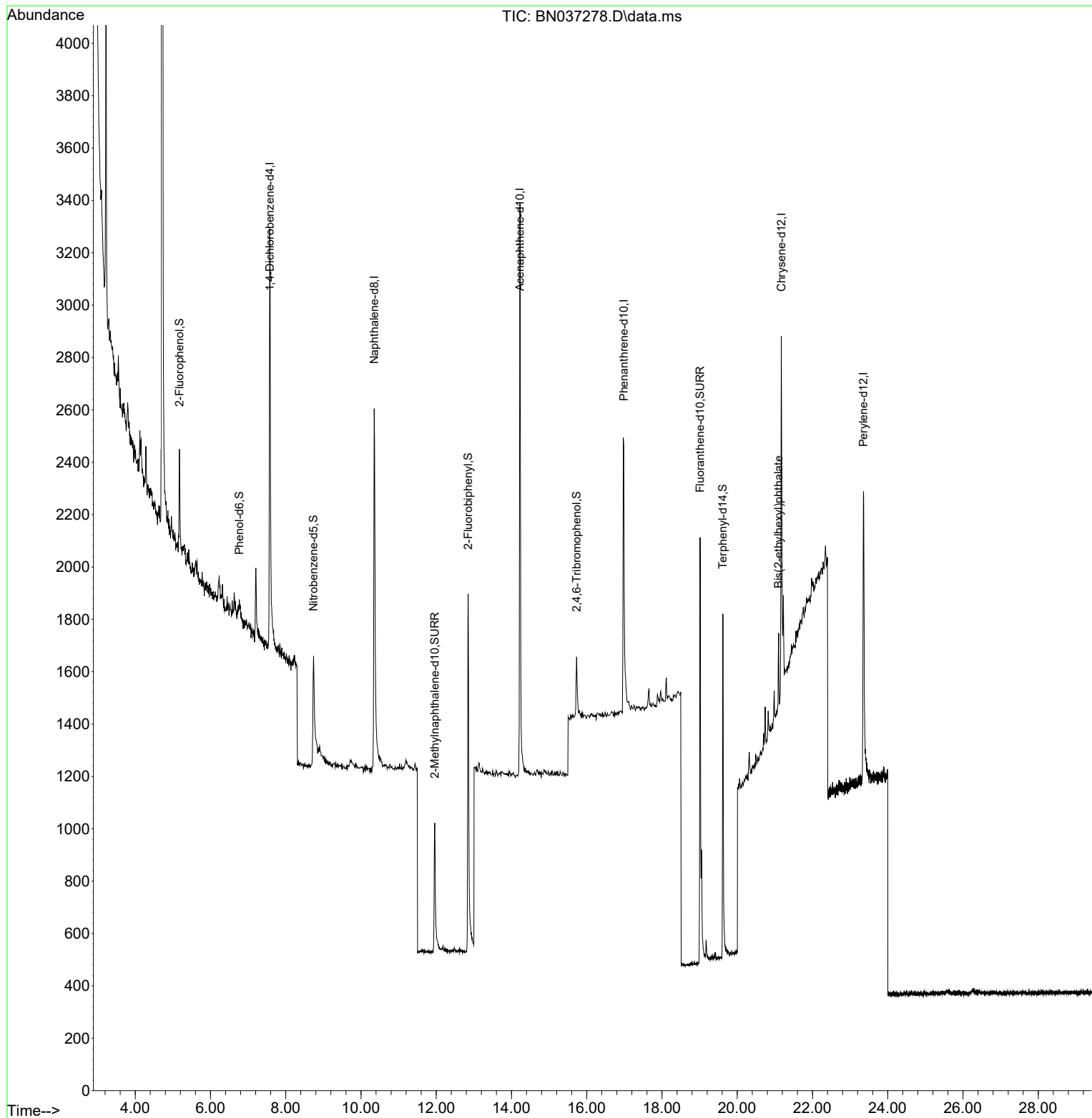
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1039     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.351 | 136  | 2587     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1385     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 2353     | 0.400 | ng    | # 0.01   |
| 29) Chrysene-d12              | 21.171 | 240  | 1786     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.354 | 264  | 1731     | 0.400 | ng    | -0.01    |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.177  | 112  | 283      | 0.111 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.766  | 99   | 143      | 0.053 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 657      | 0.257 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.960 | 152  | 997      | 0.287 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 191      | 0.332 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.848 | 172  | 1757     | 0.302 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.012 | 212  | 2298     | 0.373 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.616 | 244  | 1621     | 0.402 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 34) Bis(2-ethylhexyl)phtha... | 21.099 | 149  | 260      | 0.058 | ng    | # 95     |

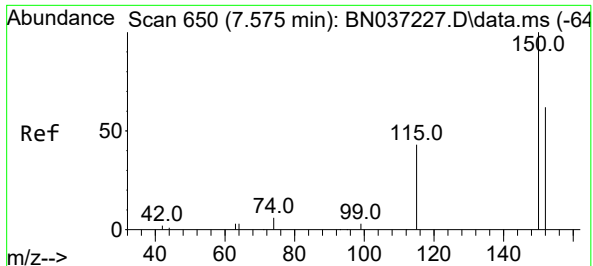
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037278.D  
Acq On : 15 Jun 2025 01:30  
Operator : RC/JU  
Sample : Q2316-01  
Misc :  
ALS Vial : 57 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP100-20250612

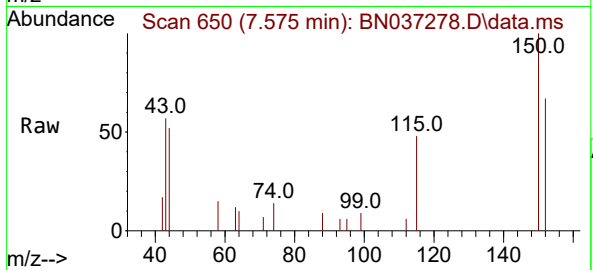
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Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 2025  
Response via : Initial Calibration



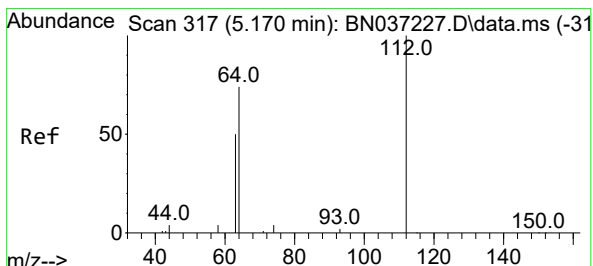
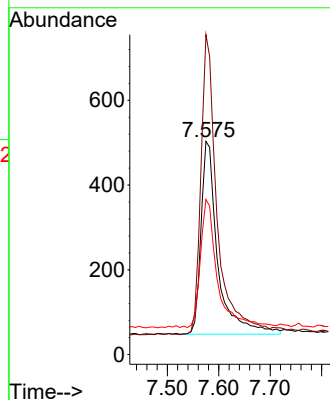
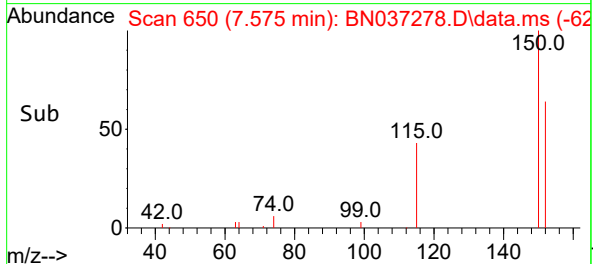


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037278.D  
Acq: 15 Jun 2025 01:30

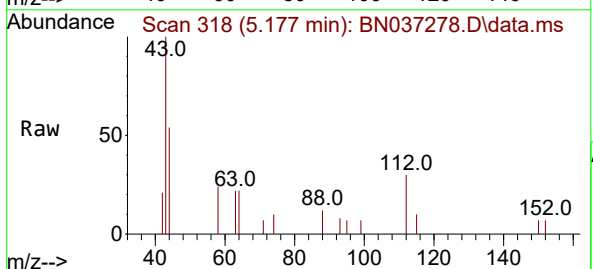
Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP100-20250612



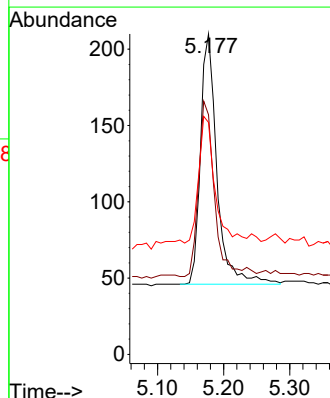
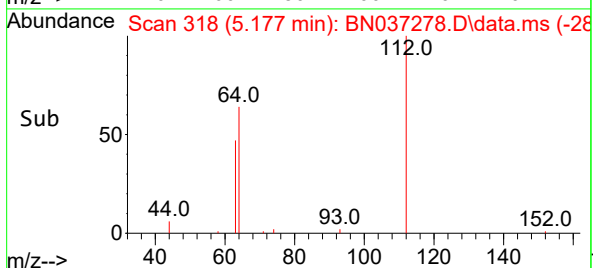
Tgt Ion:152 Resp: 1039  
Ion Ratio Lower Upper  
152 100  
150 150.1 125.2 187.8  
115 72.8 58.4 87.6

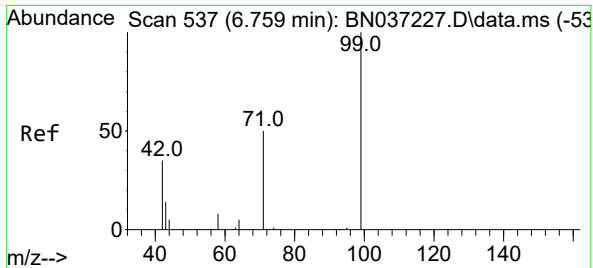


#4  
2-Fluorophenol  
Concen: 0.111 ng  
RT: 5.177 min Scan# 318  
Delta R.T. 0.007 min  
Lab File: BN037278.D  
Acq: 15 Jun 2025 01:30



Tgt Ion:112 Resp: 283  
Ion Ratio Lower Upper  
112 100  
64 68.9 57.2 85.8  
63 62.9 39.8 59.6#

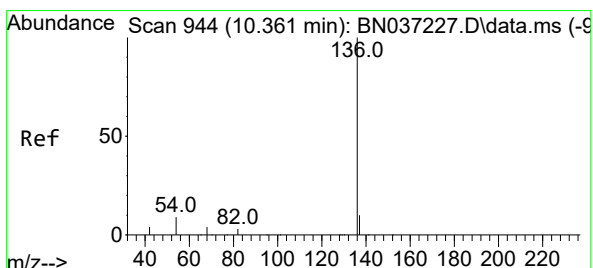
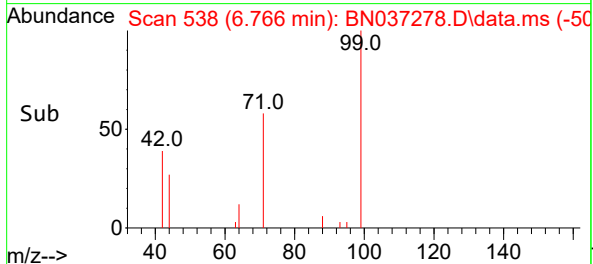
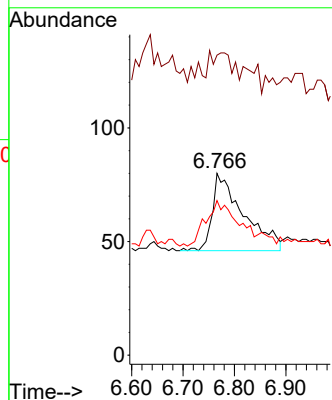
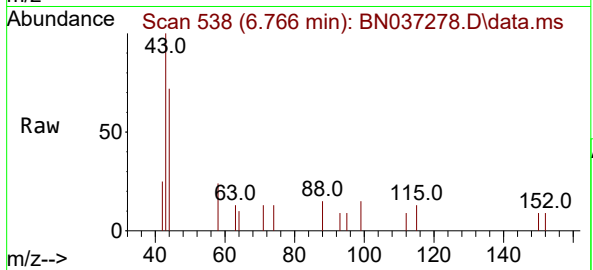




#5  
Phenol-d6  
Concen: 0.053 ng  
RT: 6.766 min Scan# 51  
Delta R.T. 0.007 min  
Lab File: BN037278.D  
Acq: 15 Jun 2025 01:30

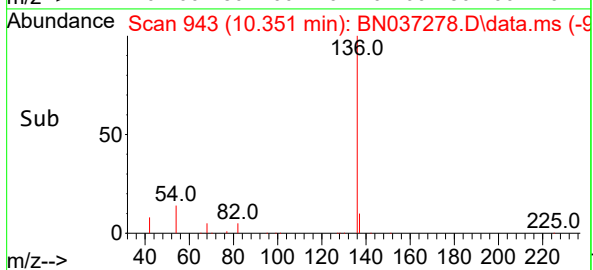
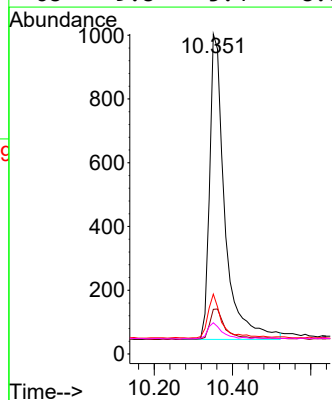
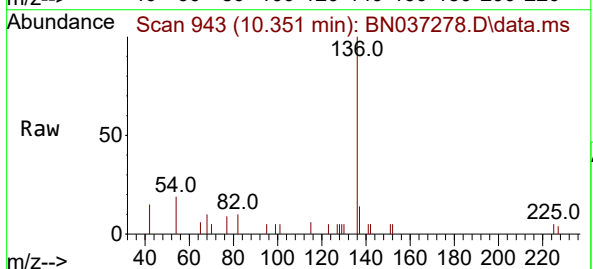
Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP100-20250612

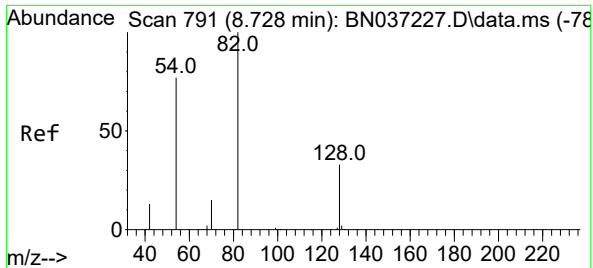
Tgt Ion: 99 Resp: 143  
Ion Ratio Lower Upper  
99 100  
42 24.5 36.2 54.4#  
71 60.8 42.4 63.6



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN037278.D  
Acq: 15 Jun 2025 01:30

Tgt Ion: 136 Resp: 2587  
Ion Ratio Lower Upper  
136 100  
137 13.9 10.6 15.8  
54 18.7 9.2 13.8#  
68 9.8 5.4 8.0#

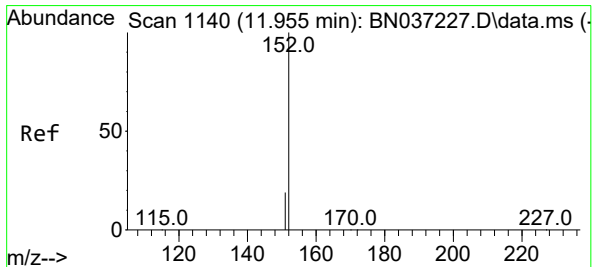
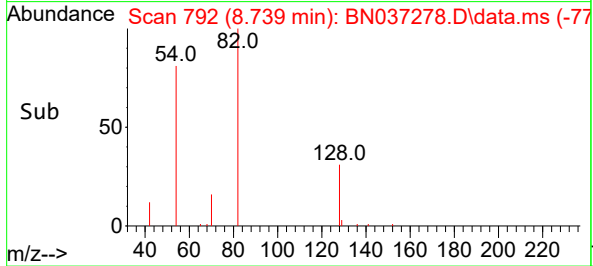
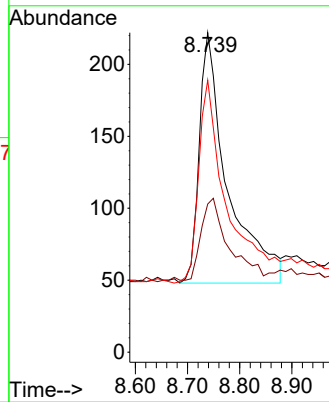
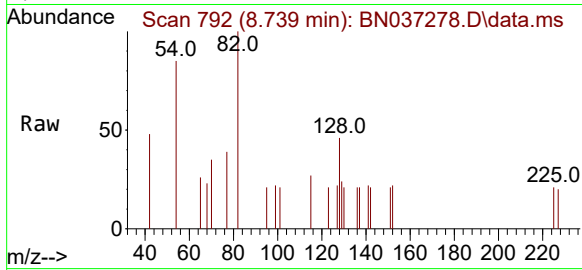




#8  
Nitrobenzene-d5  
Concen: 0.257 ng  
RT: 8.739 min Scan# 791  
Delta R.T. 0.011 min  
Lab File: BN037278.D  
Acq: 15 Jun 2025 01:30

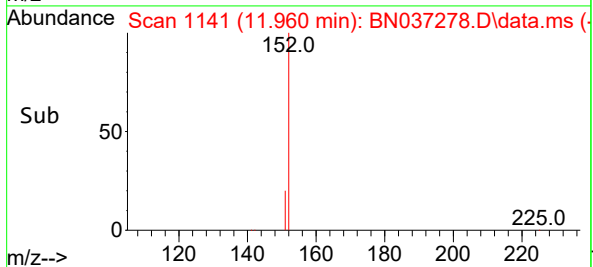
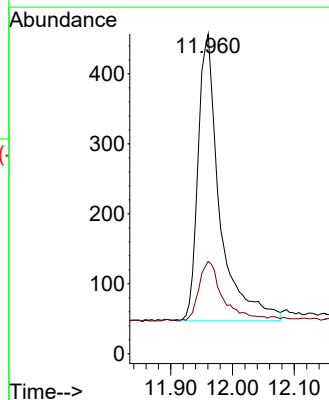
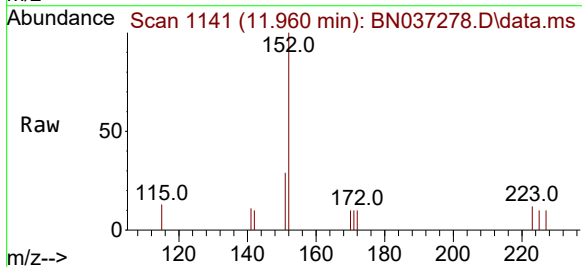
Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP100-20250612

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 657   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 46.4  | 31.2  | 46.8  |
| 54       | 85.1  | 63.3  | 94.9  |

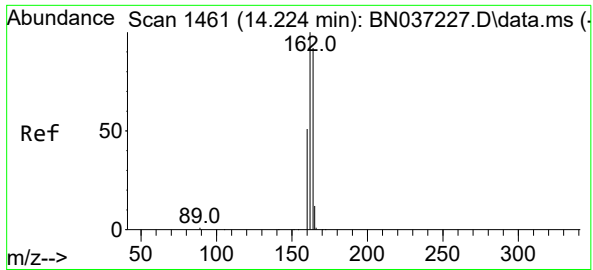


#11  
2-Methylnaphthalene-d10  
Concen: 0.287 ng  
RT: 11.960 min Scan# 1141  
Delta R.T. 0.005 min  
Lab File: BN037278.D  
Acq: 15 Jun 2025 01:30

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 997   |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 22.1  | 17.9  | 26.9  |







#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037278.D

Acq: 15 Jun 2025 01:30

Instrument :

BNA\_N

ClientSampleId :

RW8-SP100-20250612

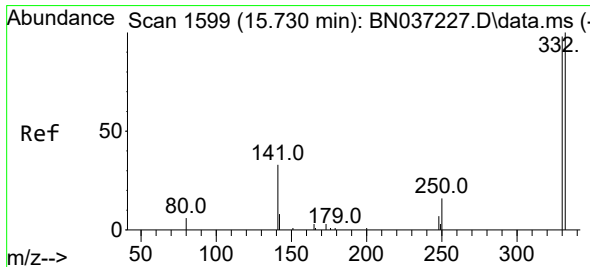
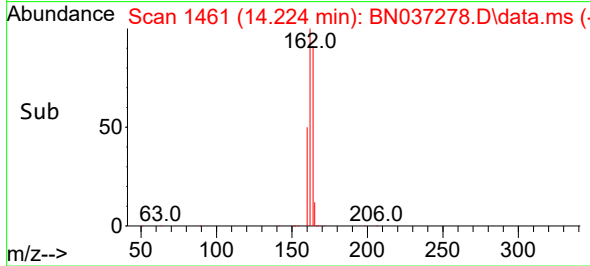
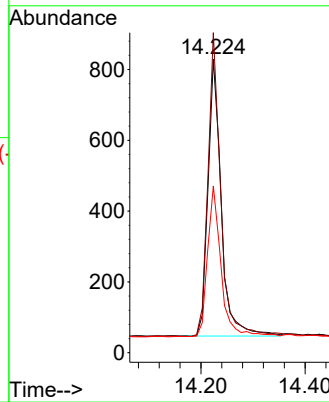
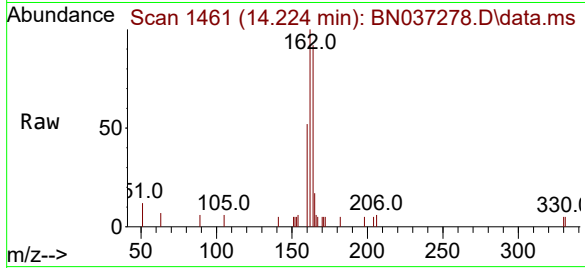
Tgt Ion:164 Resp: 1385

Ion Ratio Lower Upper

164 100

162 109.0 86.7 130.1

160 56.8 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.332 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037278.D

Acq: 15 Jun 2025 01:30

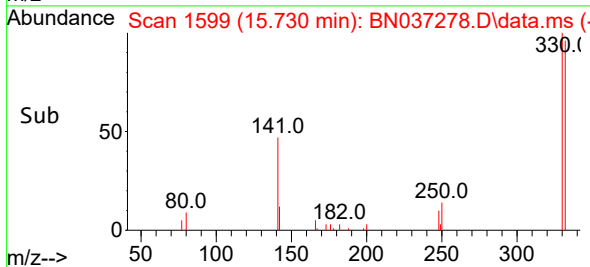
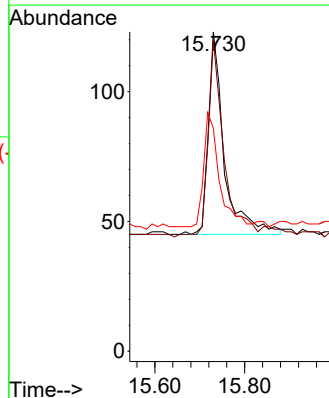
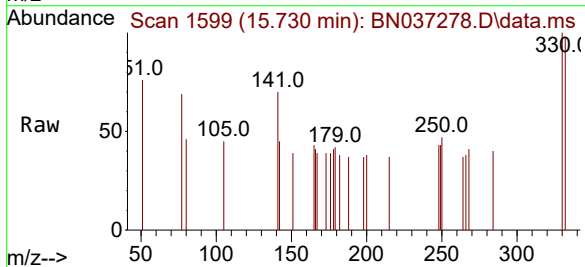
Tgt Ion:330 Resp: 191

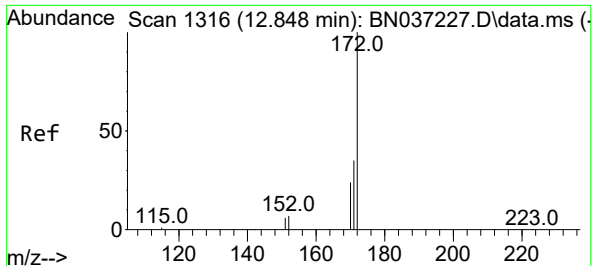
Ion Ratio Lower Upper

330 100

332 95.8 74.9 112.3

141 57.1 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.302 ng

RT: 12.848 min Scan# 11

Delta R.T. 0.000 min

Lab File: BN037278.D

Acq: 15 Jun 2025 01:30

Instrument :

BNA\_N

ClientSampleId :

RW8-SP100-20250612

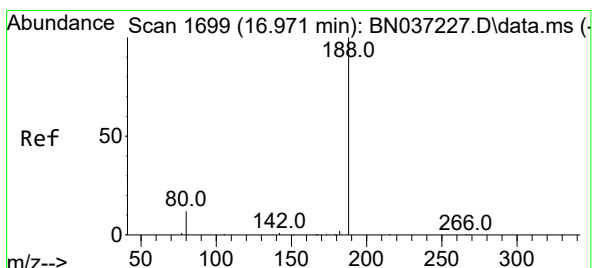
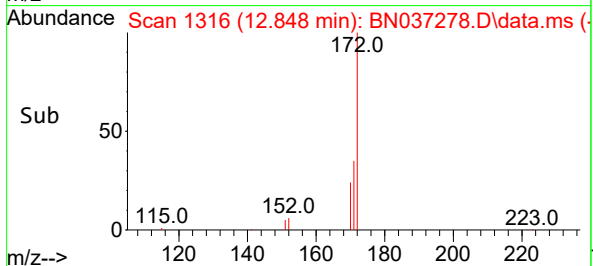
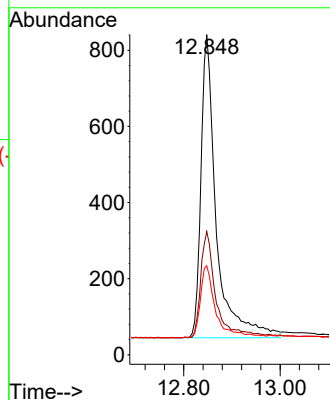
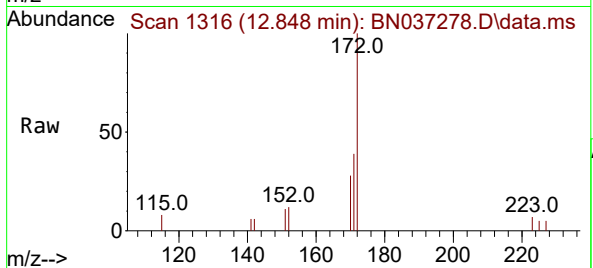
Tgt Ion:172 Resp: 1757

Ion Ratio Lower Upper

172 100

171 38.5 29.8 44.8

170 27.8 21.1 31.7



#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1700

Delta R.T. 0.013 min

Lab File: BN037278.D

Acq: 15 Jun 2025 01:30

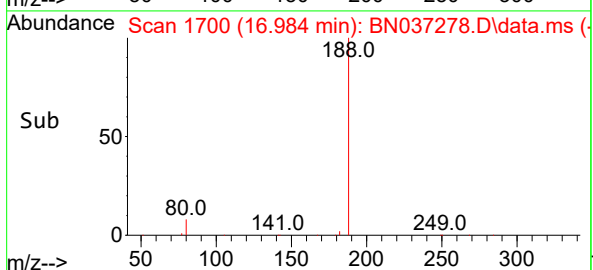
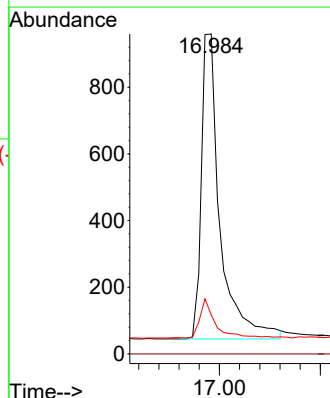
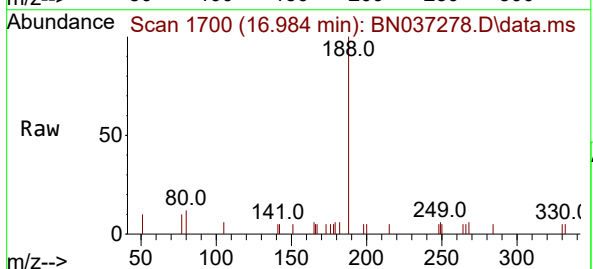
Tgt Ion:188 Resp: 2353

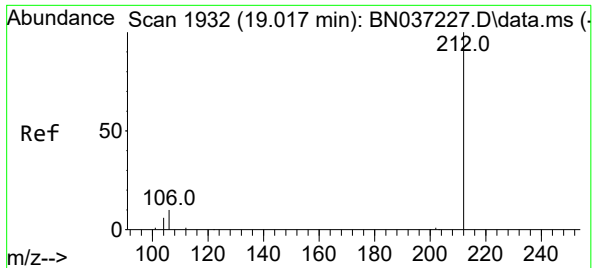
Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.2 12.2 18.4#

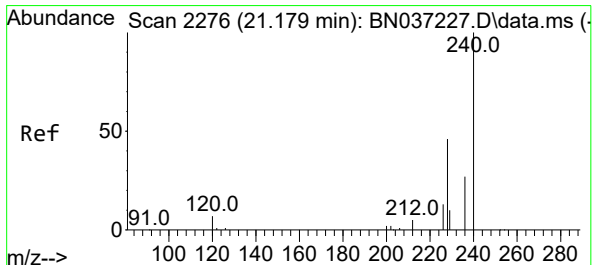
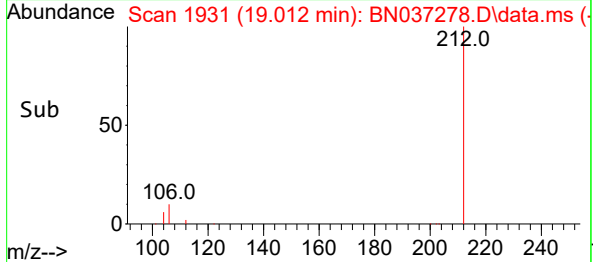
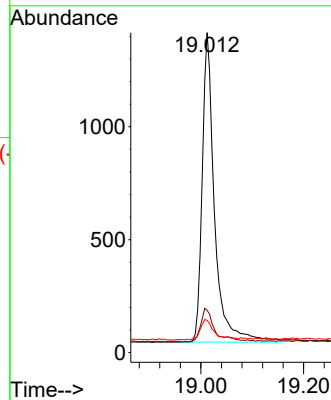
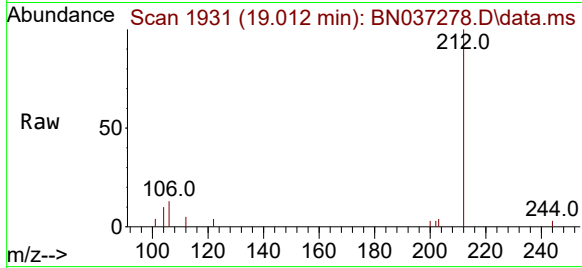




#27  
Fluoranthene-d10  
Concen: 0.373 ng  
RT: 19.012 min Scan# 1931  
Delta R.T. -0.005 min  
Lab File: BN037278.D  
Acq: 15 Jun 2025 01:30

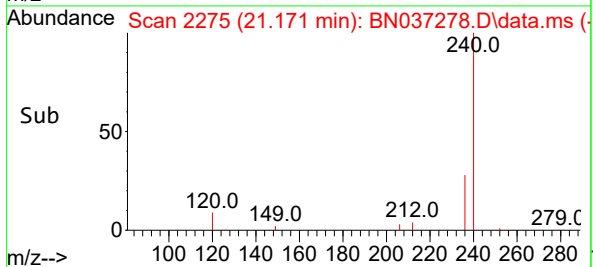
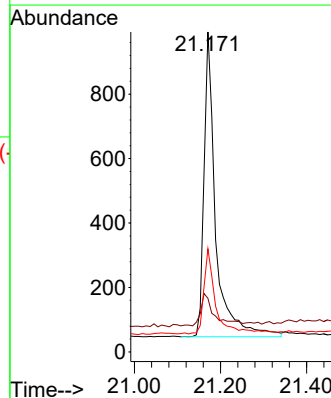
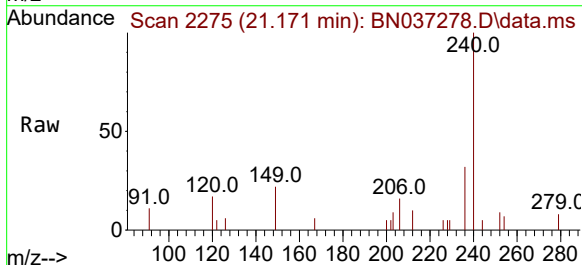
Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP100-20250612

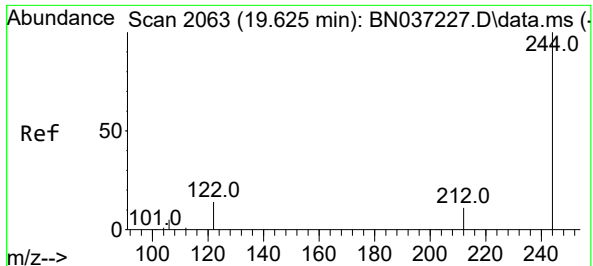
|             |       |          |
|-------------|-------|----------|
| Tgt Ion:212 | Resp: | 2298     |
| Ion Ratio   | Lower | Upper    |
| 212         | 100   |          |
| 106         | 12.1  | 9.3 13.9 |
| 104         | 7.3   | 5.7 8.5  |



#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. -0.009 min  
Lab File: BN037278.D  
Acq: 15 Jun 2025 01:30

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:240 | Resp: | 1786      |
| Ion Ratio   | Lower | Upper     |
| 240         | 100   |           |
| 120         | 16.7  | 11.3 16.9 |
| 236         | 32.2  | 24.4 36.6 |

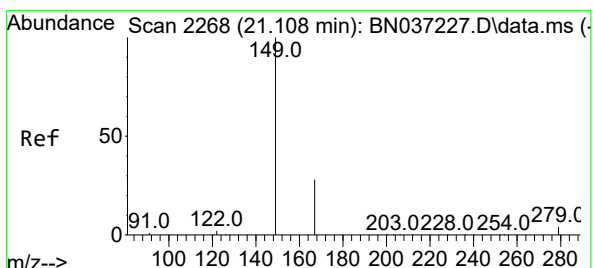
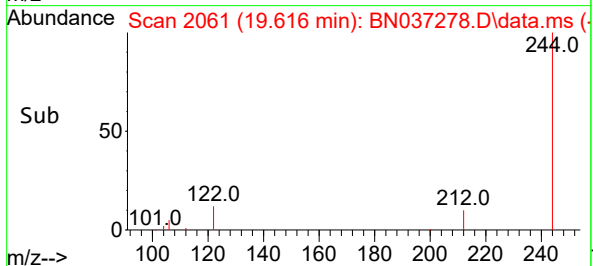
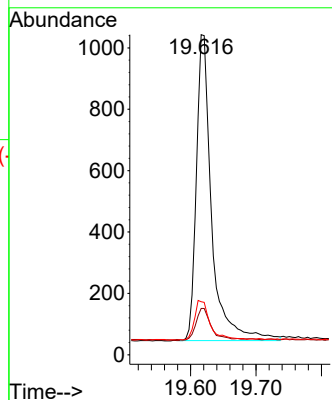
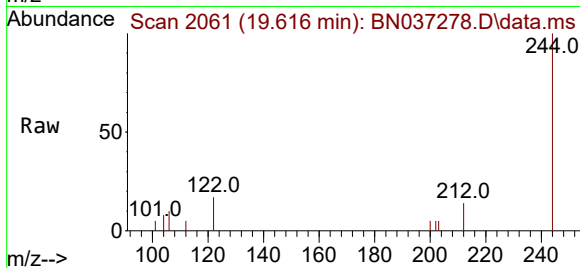




#31  
Terphenyl-d14  
Concen: 0.402 ng  
RT: 19.616 min Scan# 2061  
Delta R.T. -0.009 min  
Lab File: BN037278.D  
Acq: 15 Jun 2025 01:30

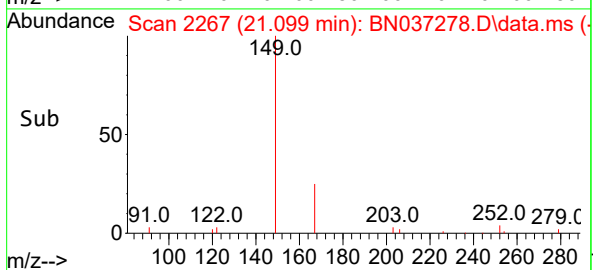
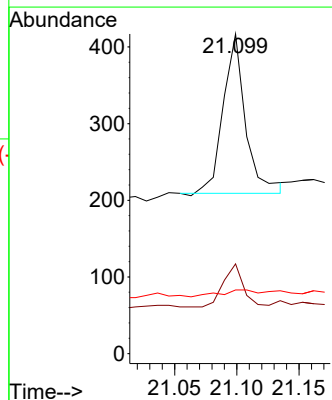
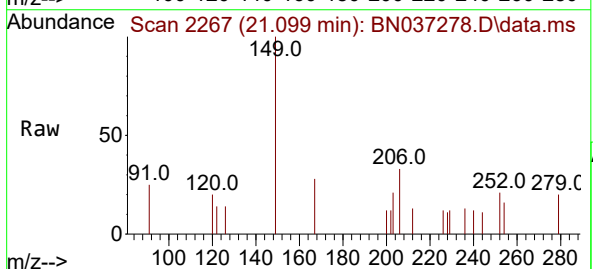
Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP100-20250612

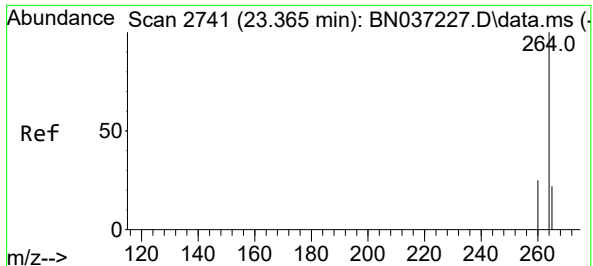
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 14.5  | 12.2  | 18.2  |
| 122     | 16.6  | 14.3  | 21.5  |



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.058 ng  
RT: 21.099 min Scan# 2267  
Delta R.T. -0.009 min  
Lab File: BN037278.D  
Acq: 15 Jun 2025 01:30

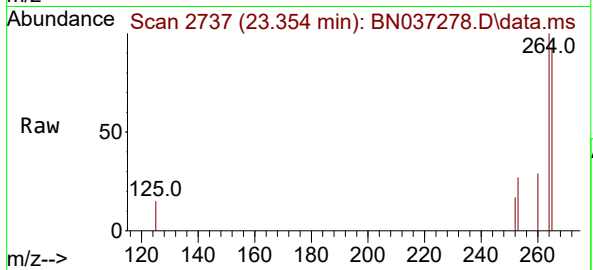
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 149     | 100   |       |       |
| 167     | 24.2  | 21.3  | 31.9  |
| 279     | 6.9   | 3.3   | 4.9   |



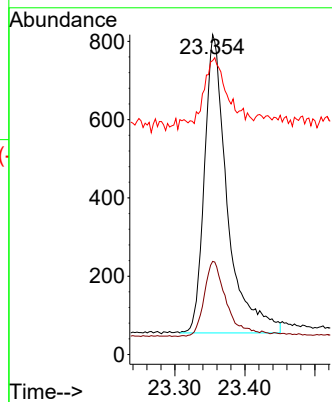
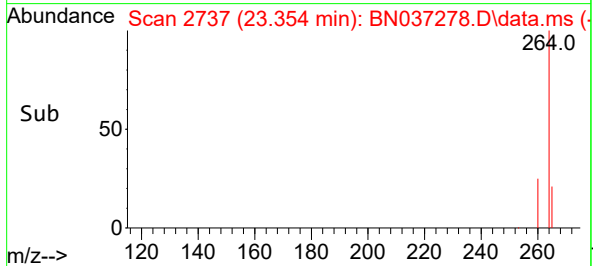


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.354 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BN037278.D  
Acq: 15 Jun 2025 01:30

Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP100-20250612



Tgt Ion:264 Resp: 1731  
Ion Ratio Lower Upper  
264 100  
260 29.1 22.8 34.2  
265 91.9 66.4 99.6



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: | 06/12/25       |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  | 06/12/25       |
| Client Sample ID:  | RW8-SP303-20250612            | SDG No.:        | Q2316          |
| Lab Sample ID:     | Q2316-02                      | Matrix:         | Water          |
| Analytical Method: | SW8270ESIM                    | % Solid:        | 0              |
| Sample Wt/Vol:     | 980      Units:    mL         | Final Vol:      | 1000      uL   |
| Soil Aliquot Vol:  | uL                            | Test:           | SVOC-SIMGroup1 |
| Extraction Type :  | Decanted :    N               | Level :         | LOW            |
| Injection Volume : | GPC Factor :    1.0           | GPC Cleanup :   | N      PH :    |
| Prep Method :      |                               |                 |                |

|                   |           |                |                |               |
|-------------------|-----------|----------------|----------------|---------------|
| File ID/Qc Batch: | Dilution: | Prep Date      | Date Analyzed  | Prep Batch ID |
| BN037279.D        | 1         | 06/13/25 11:00 | 06/15/25 02:06 | PB168476      |

| 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 | 0.26  |           | 30 - 150 |      | 65%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.36  |           | 30 - 150 |      | 89%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.24  |           | 55 - 111 |      | 61%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.27  |           | 53 - 106 |      | 67%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.41  |           | 58 - 132 |      | 102%       | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1040  |           | 7.582    |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 2640  |           | 10.351   |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 1420  |           | 14.224   |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 2530  |           | 16.971   |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 1830  |           | 21.171   |      |            |          |
| 1520-96-3                 | Perylene-d12            | 1770  |           | 23.357   |      |            |          |

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\BN061325\  
Data File : BN037279.D  
Acq On : 15 Jun 2025 02:06  
Operator : RC/JU  
Sample : Q2316-02  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP303-20250612

Quant Time: Jun 16 02:47:02 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 2025  
Response via : Initial Calibration

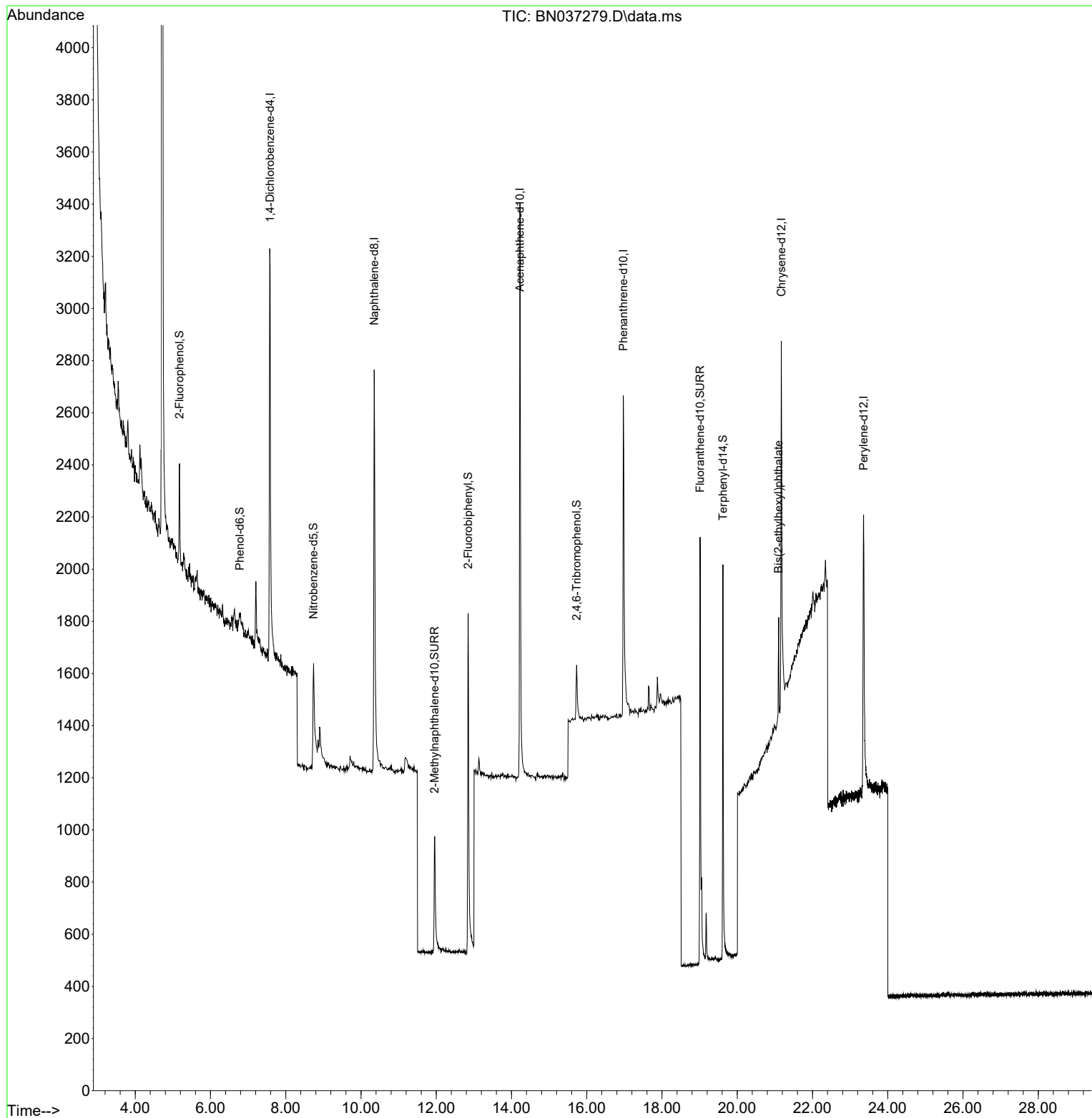
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.582  | 152  | 1035     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.351 | 136  | 2641     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1419     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.971 | 188  | 2526     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.171 | 240  | 1833     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.357 | 264  | 1767     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.177  | 112  | 280      | 0.110 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.781  | 99   | 140      | 0.052 | ng    | 0.02     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 635      | 0.243 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.955 | 152  | 929      | 0.262 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 189      | 0.321 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.848 | 172  | 1595     | 0.267 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.012 | 212  | 2349     | 0.355 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.621 | 244  | 1685     | 0.407 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 34) Bis(2-ethylhexyl)phtha... | 21.099 | 149  | 405      | 0.088 | ng    | # 98     |

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

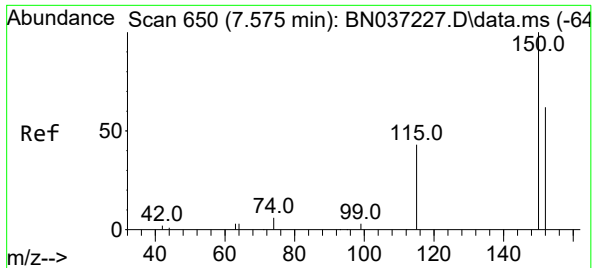
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037279.D  
Acq On : 15 Jun 2025 02:06  
Operator : RC/JU  
Sample : Q2316-02  
Misc :  
ALS Vial : 58 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP303-20250612

Quant Time: Jun 16 02:47:02 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 2025  
Response via : Initial Calibration

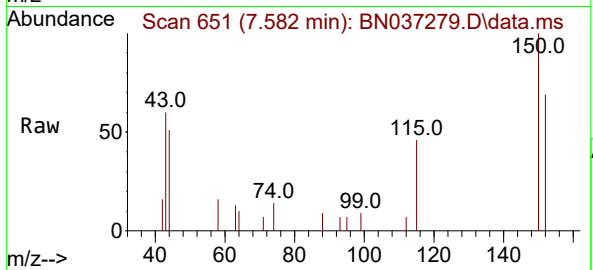




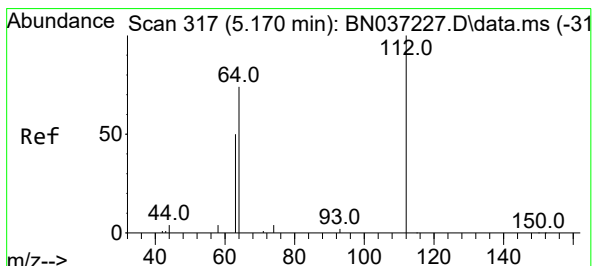
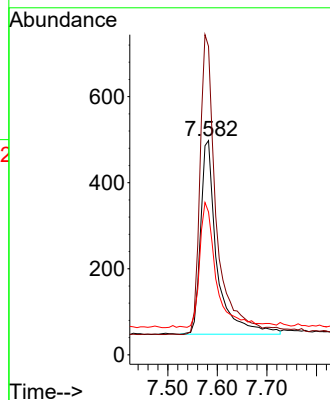
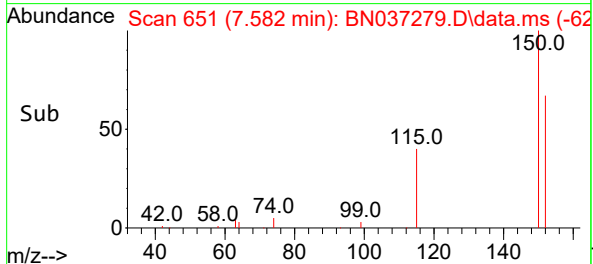


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.582 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06

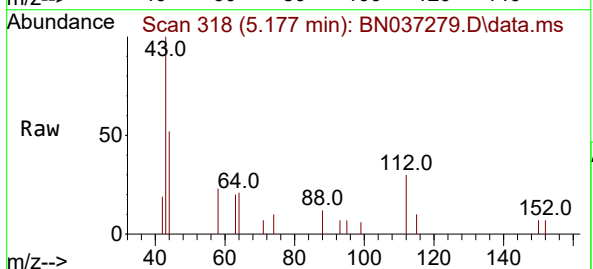
Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP303-20250612



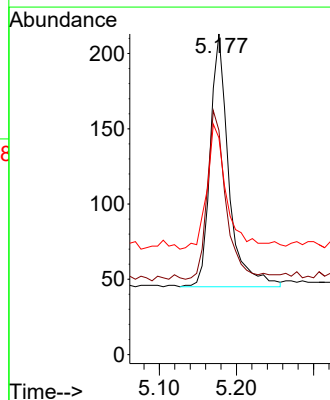
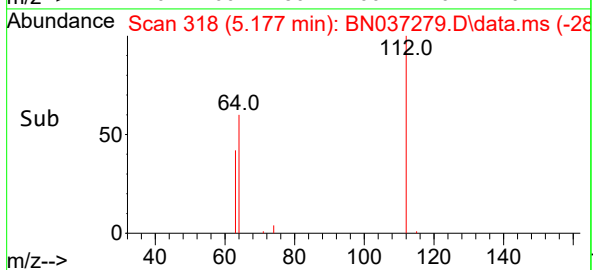
Tgt Ion:152 Resp: 1035  
Ion Ratio Lower Upper  
152 100  
150 144.0 125.2 187.8  
115 66.7 58.4 87.6

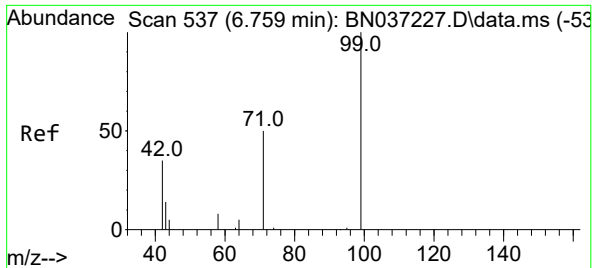


#4  
2-Fluorophenol  
Concen: 0.110 ng  
RT: 5.177 min Scan# 318  
Delta R.T. 0.007 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06



Tgt Ion:112 Resp: 280  
Ion Ratio Lower Upper  
112 100  
64 67.9 57.2 85.8  
63 52.1 39.8 59.6

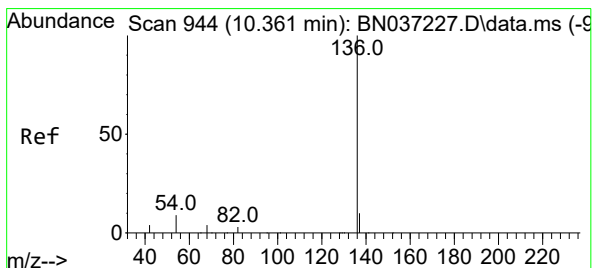
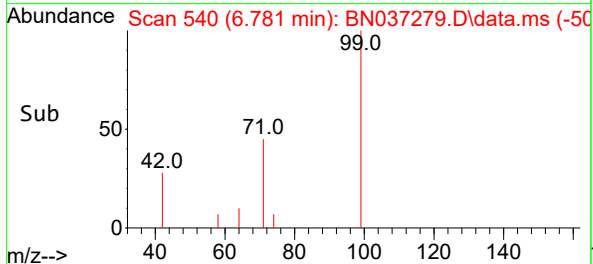
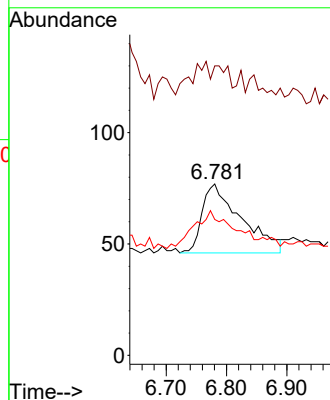
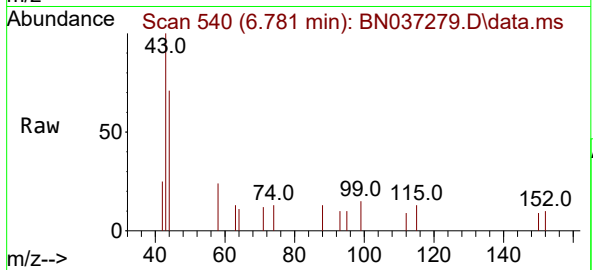




#5  
Phenol-d6  
Concen: 0.052 ng  
RT: 6.781 min Scan# 54  
Delta R.T. 0.022 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06

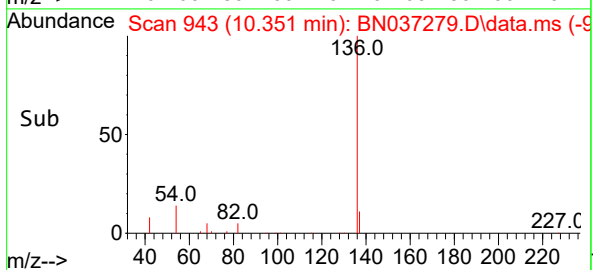
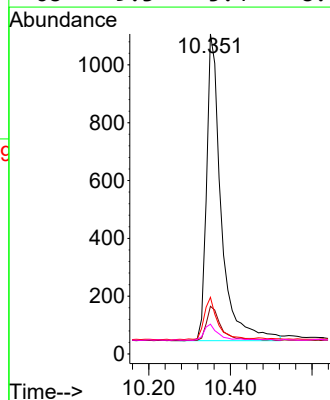
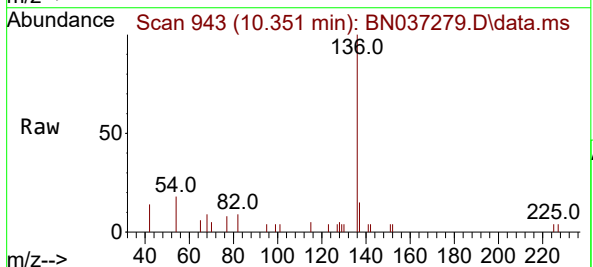
Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP303-20250612

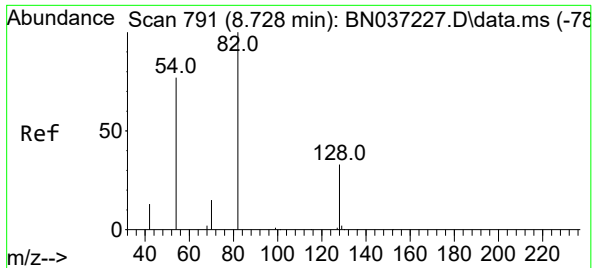
Tgt Ion: 99 Resp: 140  
Ion Ratio Lower Upper  
99 100  
42 22.1 36.2 54.4#  
71 55.7 42.4 63.6



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 943  
Delta R.T. -0.011 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06

Tgt Ion: 136 Resp: 2641  
Ion Ratio Lower Upper  
136 100  
137 14.9 10.6 15.8  
54 17.7 9.2 13.8#  
68 9.3 5.4 8.0#

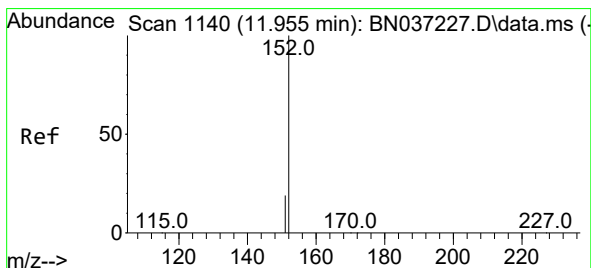
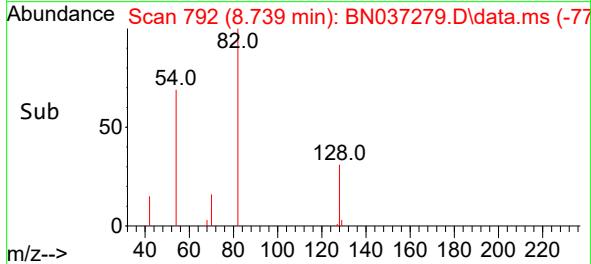
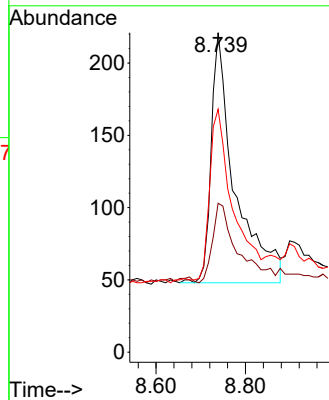
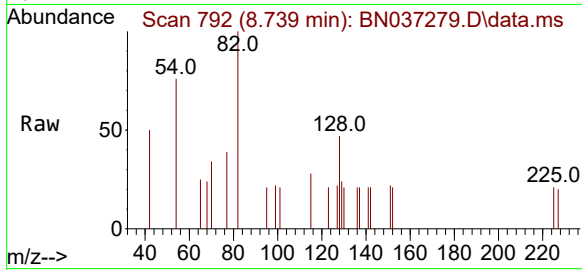




#8  
Nitrobenzene-d5  
Concen: 0.243 ng  
RT: 8.739 min Scan# 791  
Delta R.T. 0.011 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06

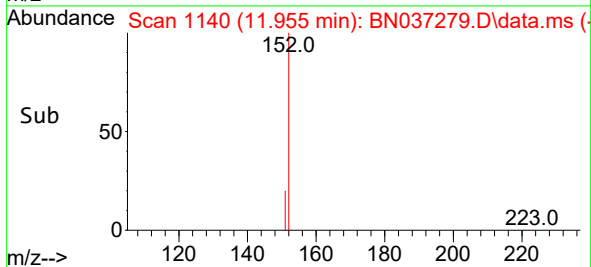
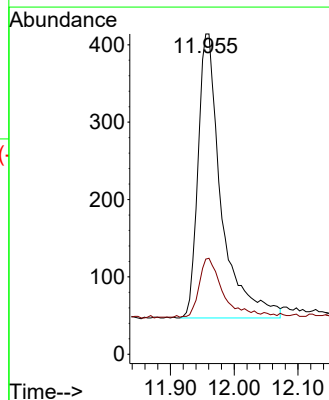
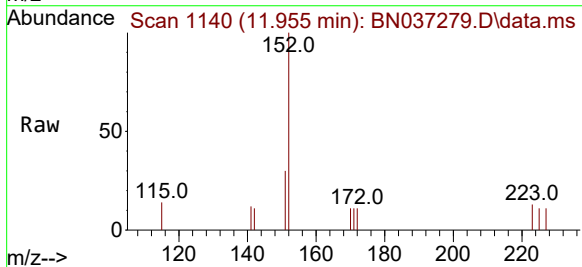
Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP303-20250612

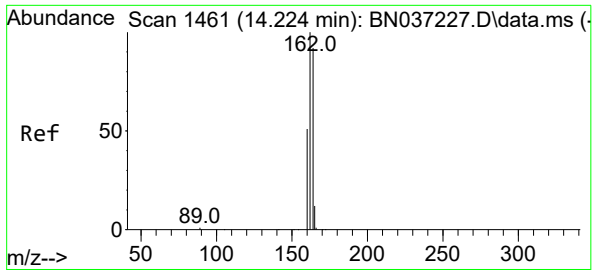
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 635   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 46.6  | 31.2  | 46.8  |
| 54       | 76.0  | 63.3  | 94.9  |



#11  
2-Methylnaphthalene-d10  
Concen: 0.262 ng  
RT: 11.955 min Scan# 1140  
Delta R.T. 0.000 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 929   |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.8  | 17.9  | 26.9  |

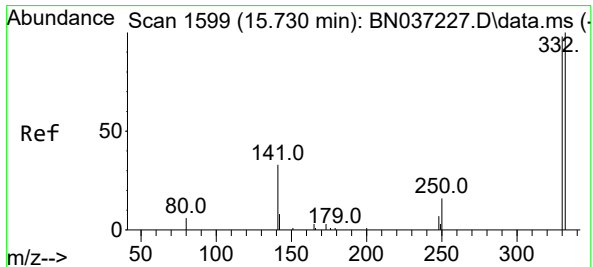
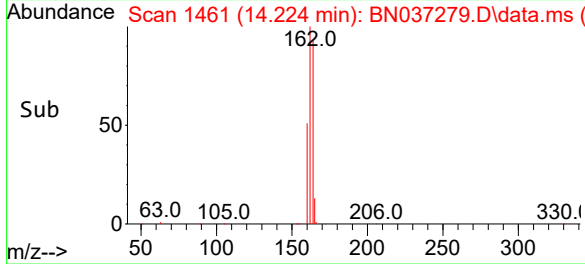
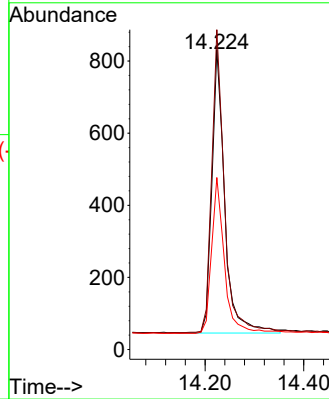
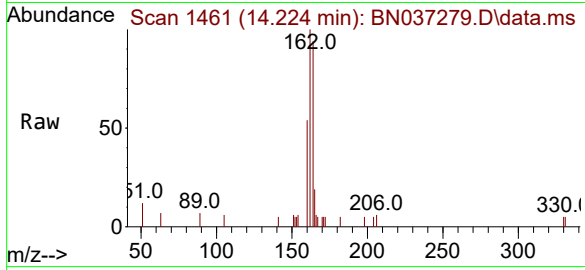




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.224 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06

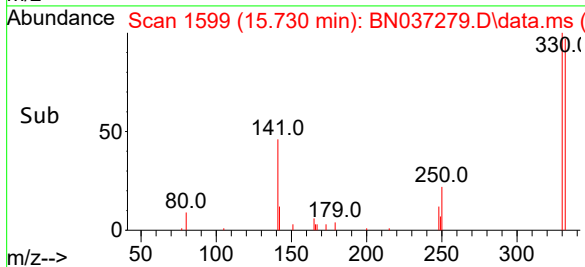
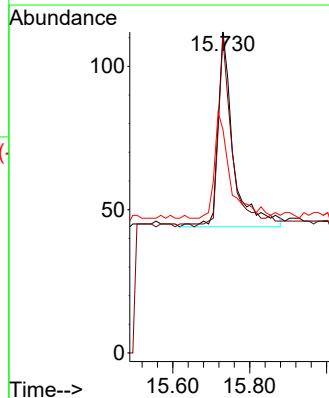
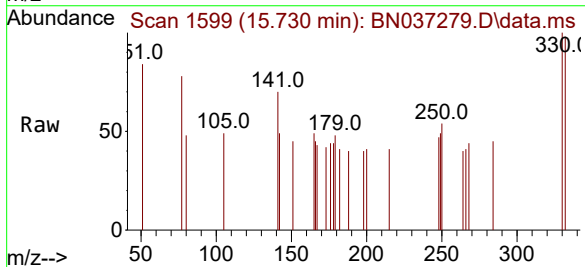
Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP303-20250612

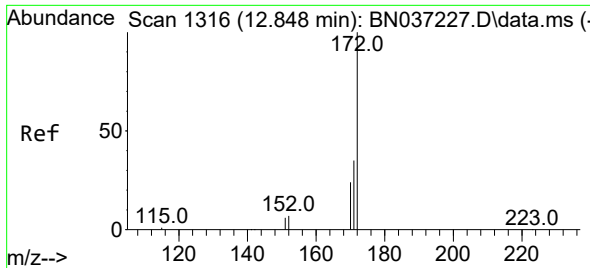
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 1419  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 106.6 | 86.7  | 130.1 |
| 160      | 57.3  | 45.8  | 68.6  |



#14  
2,4,6-Tribromophenol  
Concen: 0.321 ng  
RT: 15.730 min Scan# 1599  
Delta R.T. 0.000 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 189   |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 88.9  | 74.9  | 112.3 |
| 141      | 55.6  | 45.1  | 67.7  |

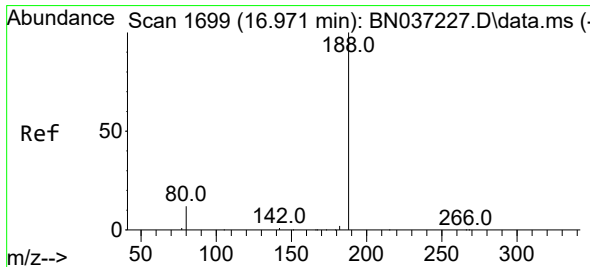
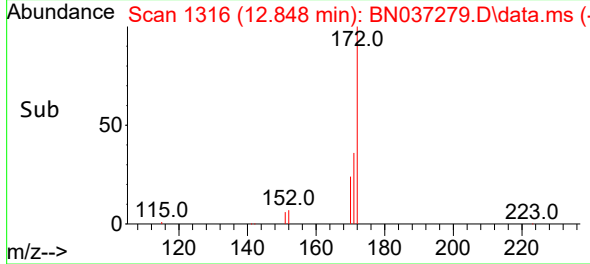
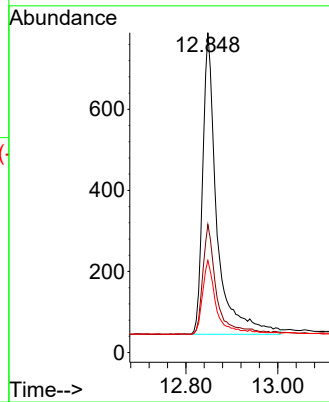
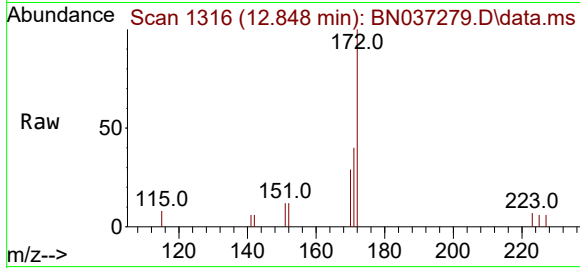




#15  
2-Fluorobiphenyl  
Concen: 0.267 ng  
RT: 12.848 min Scan# 1316  
Delta R.T. 0.000 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06

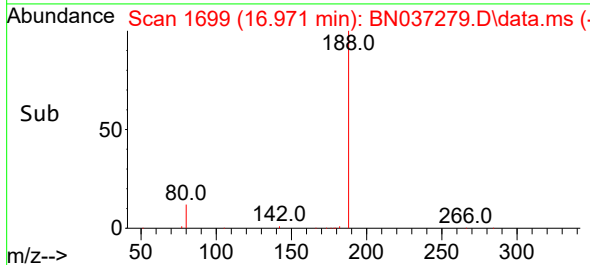
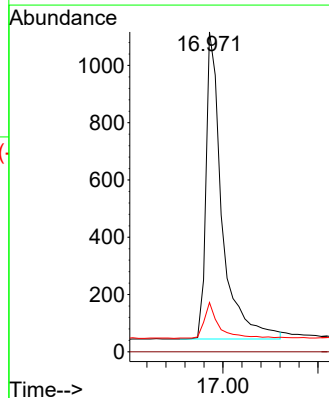
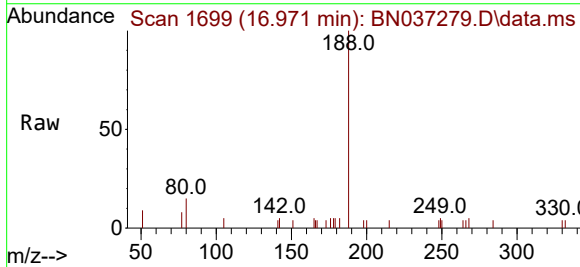
Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP303-20250612

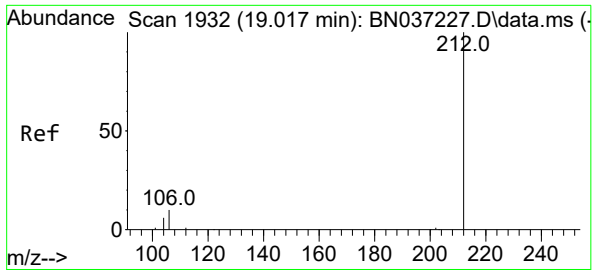
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 1595 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 40.1  | 29.8  | 44.8 |
| 170       | 28.8  | 21.1  | 31.7 |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.971 min Scan# 1699  
Delta R.T. 0.000 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 188   | Resp: | 2526 |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 15.4  | 12.2  | 18.4 |





#27

Fluoranthene-d10

Concen: 0.355 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037279.D

Acq: 15 Jun 2025 02:06

Instrument :

BNA\_N

ClientSampleId :

RW8-SP303-20250612

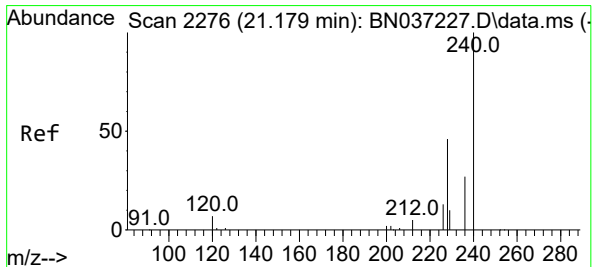
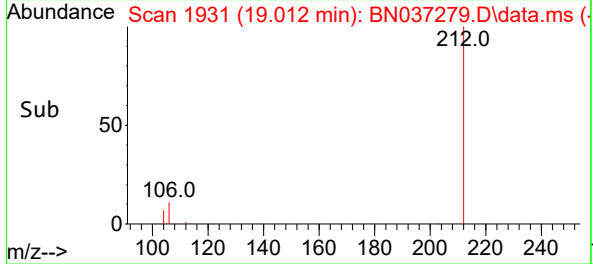
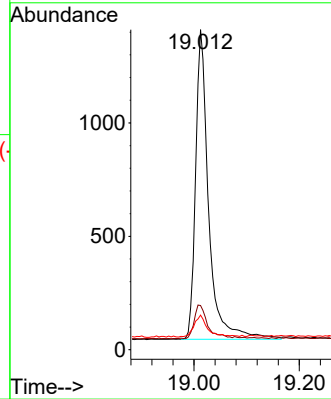
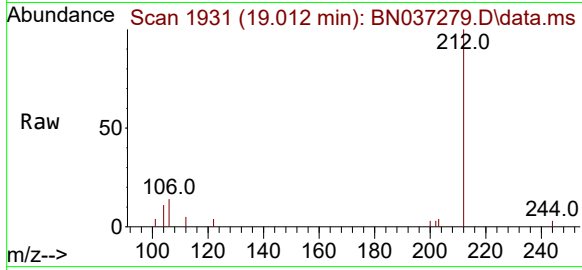
Tgt Ion:212 Resp: 2349

Ion Ratio Lower Upper

212 100

106 11.5 9.3 13.9

104 7.4 5.7 8.5



#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 2275

Delta R.T. -0.009 min

Lab File: BN037279.D

Acq: 15 Jun 2025 02:06

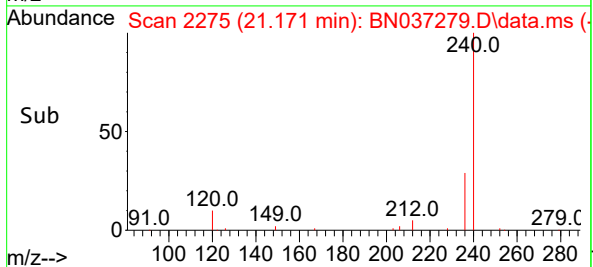
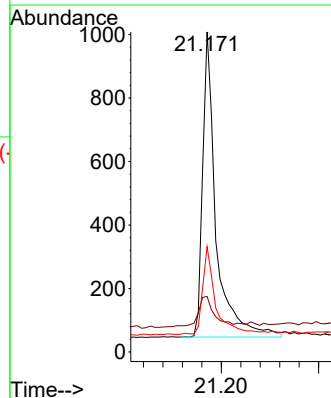
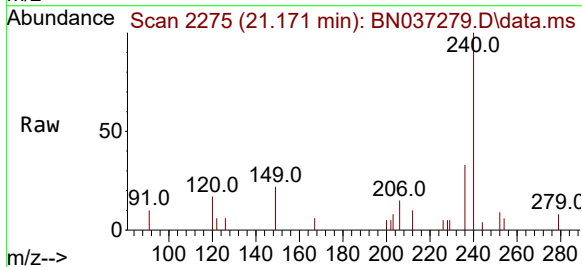
Tgt Ion:240 Resp: 1833

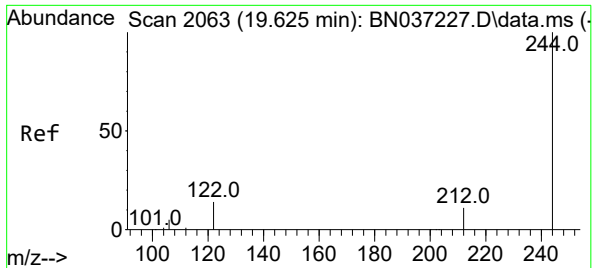
Ion Ratio Lower Upper

240 100

120 17.4 11.3 16.9

236 32.9 24.4 36.6

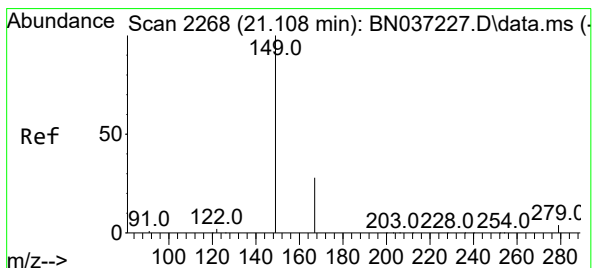
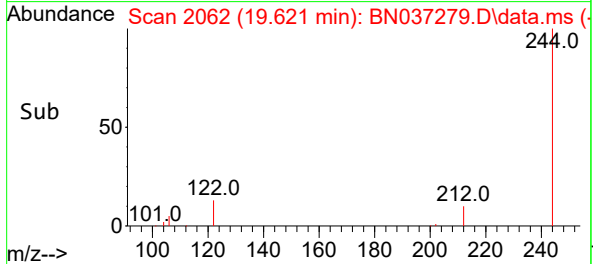
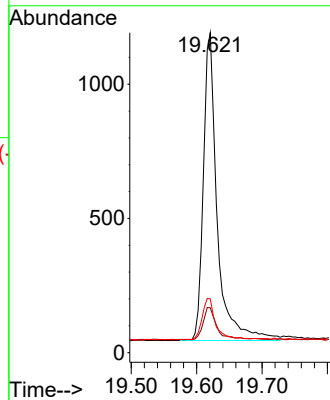
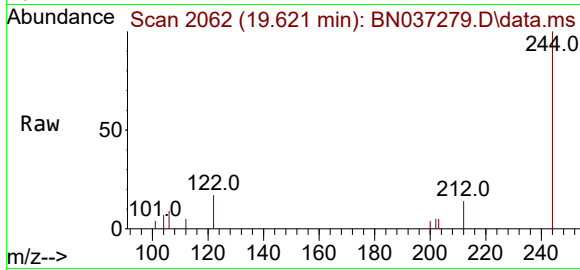




#31  
Terphenyl-d14  
Concen: 0.407 ng  
RT: 19.621 min Scan# 2062  
Delta R.T. -0.004 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06

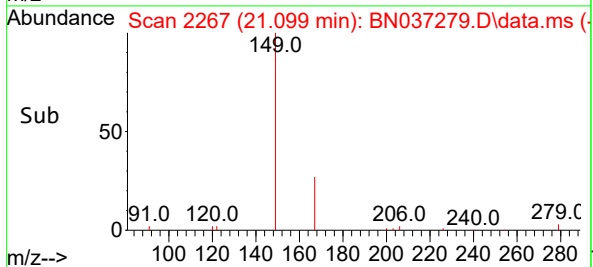
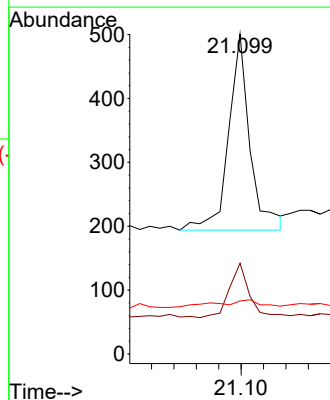
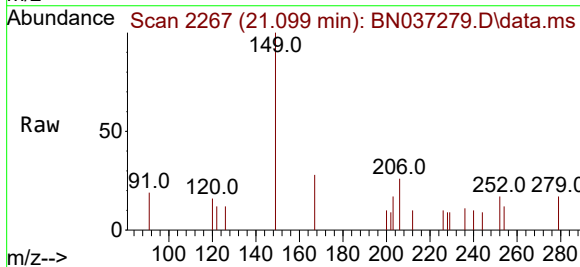
Instrument :  
BNA\_N  
ClientSampleId :  
RW8-SP303-20250612

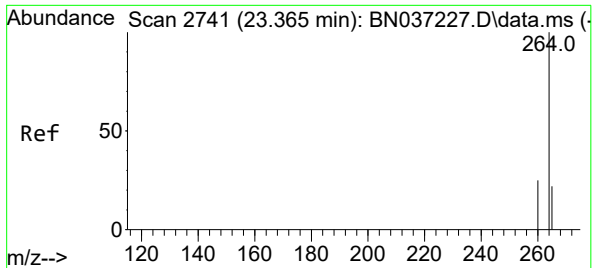
Tgt Ion:244 Resp: 1685  
Ion Ratio Lower Upper  
244 100  
212 14.0 12.2 18.2  
122 16.8 14.3 21.5



#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.088 ng  
RT: 21.099 min Scan# 2267  
Delta R.T. -0.009 min  
Lab File: BN037279.D  
Acq: 15 Jun 2025 02:06

Tgt Ion:149 Resp: 405  
Ion Ratio Lower Upper  
149 100  
167 26.2 21.3 31.9  
279 6.4 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.357 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037279.D

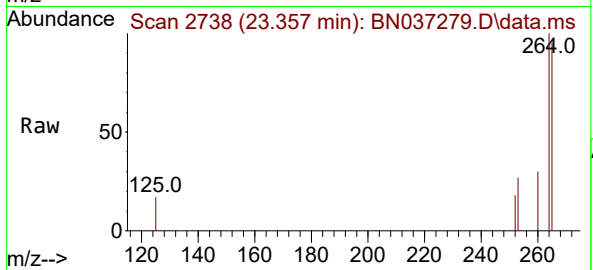
Acq: 15 Jun 2025 02:06

Instrument :

BNA\_N

ClientSampleId :

RW8-SP303-20250612



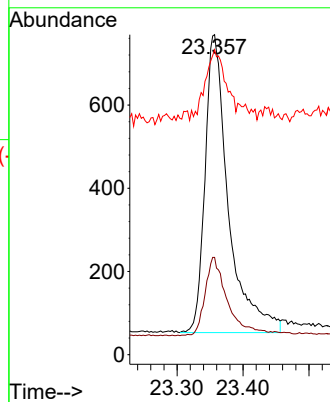
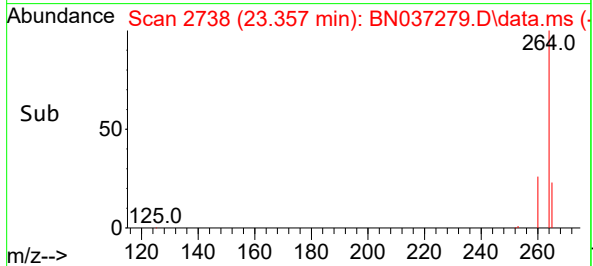
Tgt Ion:264 Resp: 1767

Ion Ratio Lower Upper

264 100

260 30.4 22.8 34.2

265 95.3 66.4 99.6







# CALIBRATION SUMMARY

- 1
- 2
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- 18

Method Path : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\  
 Method File : 8270-SIM-BN061325.M  
 Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 Last Update : Fri Jun 13 18:43:34 2025  
 Response Via : Initial Calibration

## Calibration Files

0.1 =BN037225.D 0.2 =BN037226.D 0.4 =BN037227.D 0.8 =BN037228.D 1.6 =BN037229.D 3.2 =BN037230.D 5.0 =BN037231.D

|           | Compound              | 0.1            | 0.2   | 0.4   | 0.8   | 1.6   | 3.2   | 5.0   | Avg   | %RSD  |
|-----------|-----------------------|----------------|-------|-------|-------|-------|-------|-------|-------|-------|
| 1) I      | 1,4-Dichlorobenzen... | -----ISTD----- |       |       |       |       |       |       |       |       |
| 2)        | 1,4-Dioxane           | 0.683          | 0.525 | 0.535 | 0.549 | 0.515 | 0.486 | 0.549 | 12.56 |       |
| 3)        | n-Nitrosodimet...     | 1.357          | 1.277 | 1.208 | 1.295 | 1.232 | 1.134 | 1.250 | 6.18  |       |
| 4) S      | 2-Fluorophenol        | 1.043          | 1.026 | 0.942 | 0.907 | 0.996 | 0.990 | 0.972 | 0.982 | 4.80  |
| 5) S      | Phenol-d6             | 0.875          | 0.937 | 0.963 | 0.986 | 1.148 | 1.166 | 1.173 | 1.035 | 11.94 |
| 6)        | bis(2-Chloroet...     | 0.768          | 0.709 | 0.870 | 0.955 | 1.086 | 1.064 | 1.040 | 0.927 | 16.08 |
| 7) I      | Naphthalene-d8        | -----ISTD----- |       |       |       |       |       |       |       |       |
| 8) S      | Nitrobenzene-d5       | 0.366          | 0.304 | 0.384 | 0.377 | 0.440 | 0.442 | 0.453 | 0.395 | 13.53 |
| 9)        | Naphthalene           | 1.186          | 1.153 | 1.133 | 1.109 | 1.208 | 1.161 | 1.159 | 1.158 | 2.83  |
| 10)       | Hexachlorobuta...     | 0.299          | 0.290 | 0.302 | 0.271 | 0.285 | 0.267 | 0.258 | 0.282 | 5.91  |
| 11) SURR2 | Methylnaphth...       | 0.496          | 0.504 | 0.557 | 0.520 | 0.576 | 0.552 | 0.553 | 0.537 | 5.64  |
| 12)       | 2-Methylnaphth...     | 0.631          | 0.634 | 0.704 | 0.699 | 0.769 | 0.746 | 0.745 | 0.704 | 7.77  |
| 13) I     | Acenaphthene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 14) S     | 2,4,6-Tribromo...     | 0.126          | 0.146 | 0.171 | 0.171 | 0.188 | 0.183 | 0.178 | 0.166 | 13.42 |
| 15) S     | 2-Fluorobiphenyl      | 1.566          | 1.530 | 1.699 | 1.658 | 1.822 | 1.777 | 1.715 | 1.681 | 6.31  |
| 16)       | Acenaphthylene        | 1.907          | 1.870 | 1.870 | 1.915 | 2.077 | 2.062 | 2.021 | 1.960 | 4.61  |
| 17)       | Acenaphthene          | 1.242          | 1.209 | 1.240 | 1.230 | 1.341 | 1.318 | 1.277 | 1.265 | 3.87  |
| 18)       | Fluorene              | 1.544          | 1.509 | 1.593 | 1.610 | 1.757 | 1.714 | 1.649 | 1.625 | 5.46  |
| 19) I     | Phenanthrene-d10      | -----ISTD----- |       |       |       |       |       |       |       |       |
| 20)       | 4,6-Dinitro-2-...     | 0.074          | 0.066 | 0.086 | 0.100 | 0.110 | 0.116 | 0.092 | 21.86 |       |
| 21)       | 4-Bromophenyl-...     | 0.248          | 0.248 | 0.244 | 0.256 | 0.278 | 0.276 | 0.273 | 0.261 | 5.65  |
| 22)       | Hexachlorobenzene     | 0.342          | 0.318 | 0.311 | 0.284 | 0.297 | 0.284 | 0.279 | 0.302 | 7.65  |
| 23)       | Atrazine              | 0.223          | 0.229 | 0.222 | 0.228 | 0.241 | 0.241 | 0.244 | 0.232 | 3.84  |
| 24)       | Pentachlorophenol     | 0.139          | 0.124 | 0.137 | 0.154 | 0.162 | 0.171 | 0.148 | 11.86 |       |
| 25)       | Phenanthrene          | 1.253          | 1.225 | 1.186 | 1.238 | 1.324 | 1.328 | 1.327 | 1.269 | 4.54  |
| 26)       | Anthracene            | 1.094          | 1.079 | 1.080 | 1.138 | 1.221 | 1.257 | 1.261 | 1.161 | 7.13  |
| 27) SURR  | Fluoranthene-d10      | 1.015          | 1.073 | 1.053 | 1.017 | 1.053 | 1.043 | 1.073 | 1.046 | 2.27  |
| 28)       | Fluoranthene          | 1.470          | 1.508 | 1.412 | 1.449 | 1.509 | 1.510 | 1.537 | 1.485 | 2.94  |
| 29) I     | Chrysene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |
| 30)       | Pyrene                | 1.850          | 1.740 | 1.962 | 1.849 | 2.016 | 1.892 | 1.854 | 1.881 | 4.74  |
| 31) S     | Terphenyl-d14         | 0.815          | 0.845 | 0.946 | 0.871 | 0.990 | 0.939 | 0.924 | 0.904 | 6.89  |
| 32)       | Benzo(a)anthra...     | 1.175          | 1.204 | 1.225 | 1.332 | 1.512 | 1.507 | 1.499 | 1.351 | 11.36 |
| 33)       | Chrysene              | 1.783          | 1.722 | 1.695 | 1.617 | 1.711 | 1.633 | 1.616 | 1.683 | 3.73  |
| 34)       | Bis(2-ethylhex...     | 1.104          | 1.024 | 1.000 | 1.006 | 0.942 | 0.960 | 1.006 | 5.65  |       |
| 35) I     | Perylene-d12          | -----ISTD----- |       |       |       |       |       |       |       |       |

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

Method File : 8270-SIM-BN061325.M

|       |                   |       |       |       |       |       |       |       |       |       |
|-------|-------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 36)   | Indeno(1,2,3-c... | 1.506 | 1.503 | 1.507 | 1.486 | 1.718 | 1.757 | 1.813 | 1.613 | 8.87  |
| 37)   | Benzo(b)fluora... | 1.309 | 1.288 | 1.376 | 1.456 | 1.618 | 1.576 | 1.620 | 1.463 | 9.81  |
| 38)   | Benzo(k)fluora... | 1.835 | 1.503 | 1.628 | 1.667 | 1.757 | 1.704 | 1.728 | 1.689 | 6.24  |
| 39) C | Benzo(a)pyrene    | 1.271 | 1.208 | 1.234 | 1.298 | 1.407 | 1.382 | 1.413 | 1.316 | 6.42  |
| 40)   | Dibenzo(a,h)an... | 1.106 | 1.102 | 1.049 | 1.118 | 1.362 | 1.425 | 1.427 | 1.227 | 13.76 |
| 41)   | Benzo(g,h,i)pe... | 1.504 | 1.460 | 1.441 | 1.386 | 1.557 | 1.566 | 1.557 | 1.496 | 4.63  |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037225.D  
 Acq On : 13 Jun 2025 13:33  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Manual Integrations  
 APPROVED

Reviewed By :Anahy Claudio 06/16/2025  
 Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 13 18:36:23 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:34:15 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 859      | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.362 | 136  | 2097     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1114     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 1916     | 0.400 | ng    | 0.01     |
| 29) Chrysene-d12              | 21.180 | 240  | 1546     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.368 | 264  | 1617     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.170  | 112  | 224      | 0.106 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.759  | 99   | 188      | 0.085 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 192      | 0.093 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.960 | 152  | 260      | 0.092 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 35       | 0.076 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.853 | 172  | 436      | 0.093 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.021 | 212  | 486      | 0.097 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.635 | 244  | 315      | 0.090 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 6) bis(2-Chloroethyl)ether    | 7.012  | 93   | 165      | 0.083 | ng    | 85       |
| 9) Naphthalene                | 10.404 | 128  | 622      | 0.102 | ng    | # 77     |
| 10) Hexachlorobutadiene       | 10.693 | 225  | 157      | 0.106 | ng    | # 95     |
| 12) 2-Methylnaphthalene       | 12.036 | 142  | 331      | 0.090 | ng    | # 93     |
| 16) Acenaphthylene            | 13.946 | 152  | 531      | 0.097 | ng    | 95       |
| 17) Acenaphthene              | 14.288 | 154  | 346      | 0.098 | ng    | 96       |
| 18) Fluorene                  | 15.282 | 166  | 430      | 0.095 | ng    | 100      |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 119      | 0.095 | ng    | 91       |
| 22) Hexachlorobenzene         | 16.289 | 284  | 164      | 0.113 | ng    | 96       |
| 23) Atrazine                  | 16.462 | 200  | 107      | 0.096 | ng    | # 63     |
| 25) Phenanthrene              | 17.021 | 178  | 600      | 0.099 | ng    | 100      |
| 26) Anthracene                | 17.120 | 178  | 524      | 0.094 | ng    | 100      |
| 28) Fluoranthene              | 19.049 | 202  | 704      | 0.099 | ng    | 99       |
| 30) Pyrene                    | 19.412 | 202  | 715      | 0.098 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.162 | 228  | 454      | 0.087 | ng    | # 79     |
| 33) Chrysene                  | 21.215 | 228  | 689      | 0.106 | ng    | # 85     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.570 | 276  | 609      | 0.093 | ng    | # 74     |
| 37) Benzo(b)fluoranthene      | 22.719 | 252  | 529      | 0.089 | ng    | # 41     |
| 38) Benzo(k)fluoranthene      | 22.760 | 252  | 742m     | 0.109 | ng    |          |
| 39) Benzo(a)pyrene            | 23.284 | 252  | 514      | 0.097 | ng    | # 23     |
| 40) Dibenzo(a,h)anthracene    | 25.590 | 278  | 447m     | 0.091 | ng    |          |
| 41) Benzo(g,h,i)perylene      | 26.228 | 276  | 608      | 0.101 | ng    | # 64     |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037225.D  
 Acq On : 13 Jun 2025 13:33  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

SSTDICC0.1

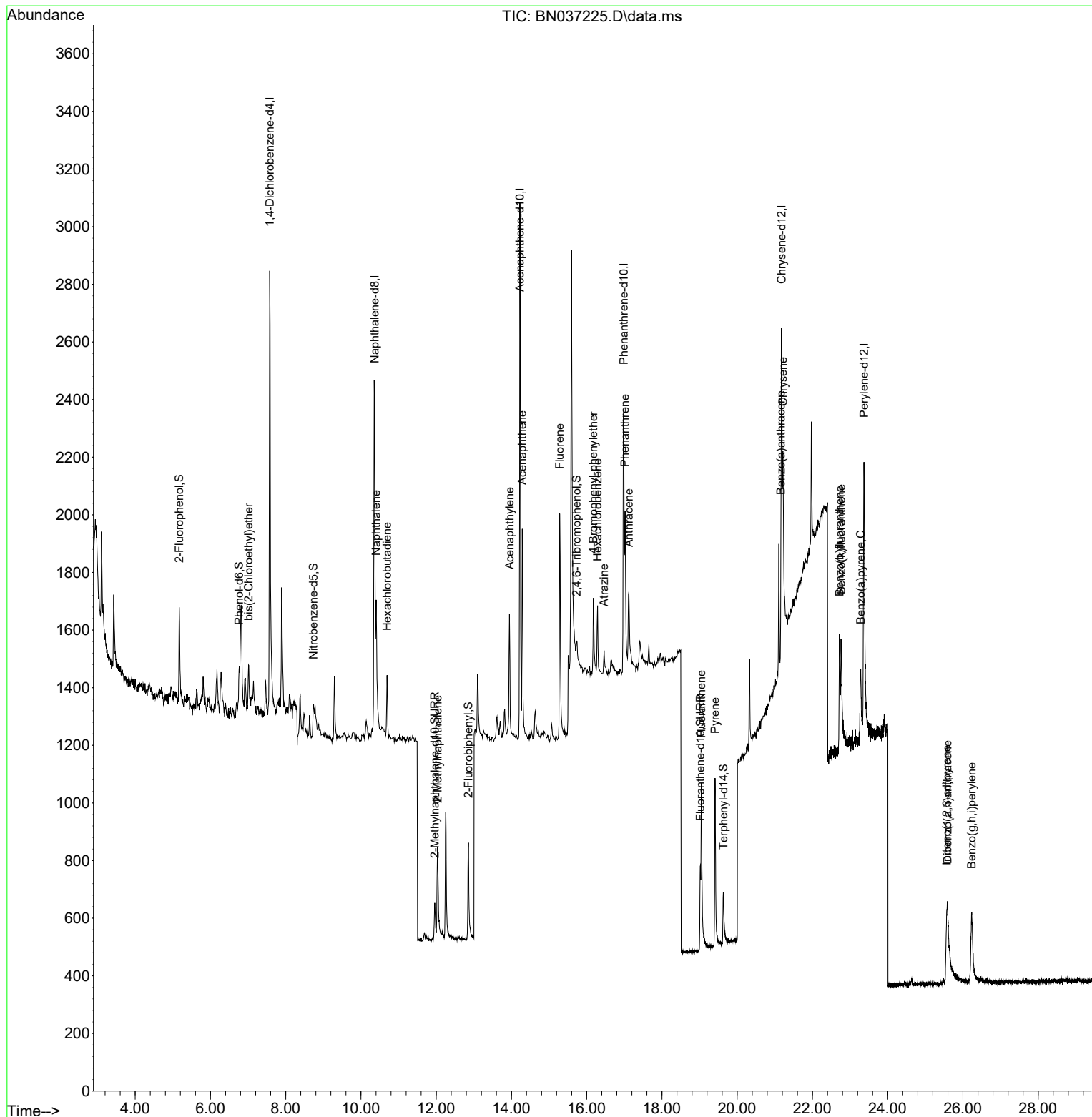
## Manual Integrations

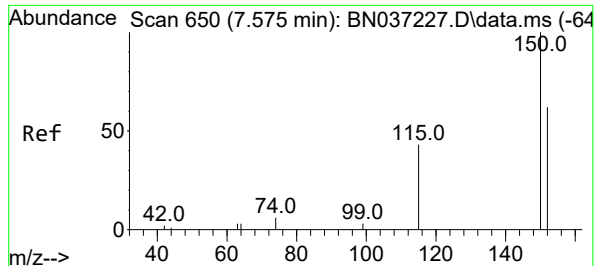
APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

Quant Time: Jun 13 18:36:23 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:34:15 2025  
 Response via : Initial Calibration





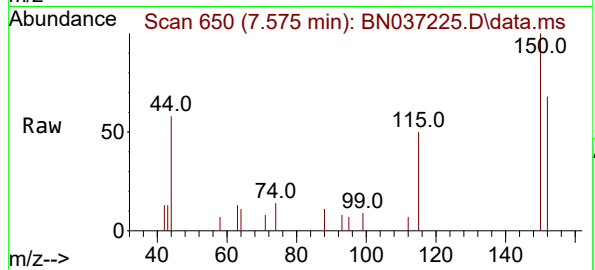
#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

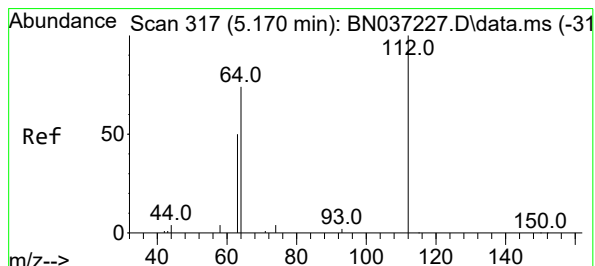
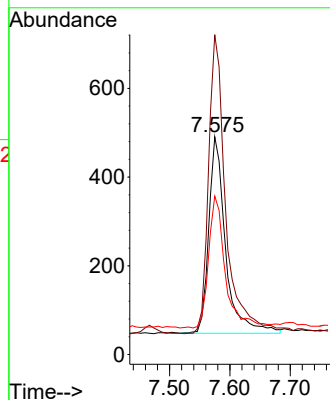
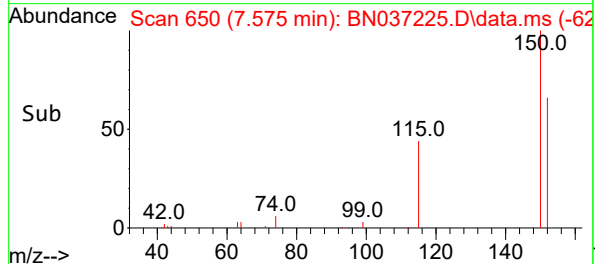


Tgt Ion:152 Resp: 859  
Ion Ratio Lower Upper  
152 100  
150 146.8 125.2 187.8  
115 72.7 58.4 87.6

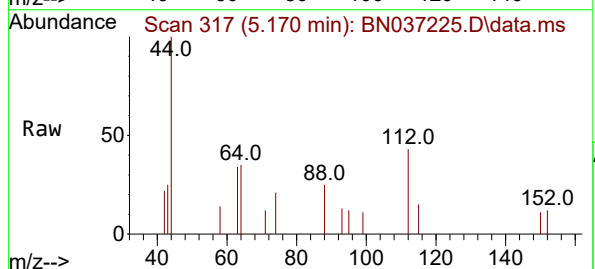
Manual Integrations

APPROVED

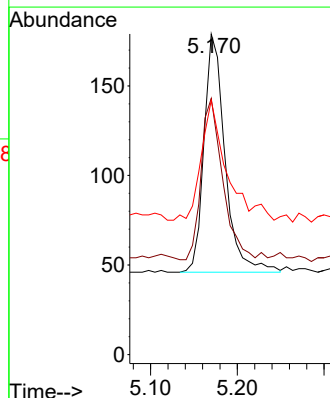
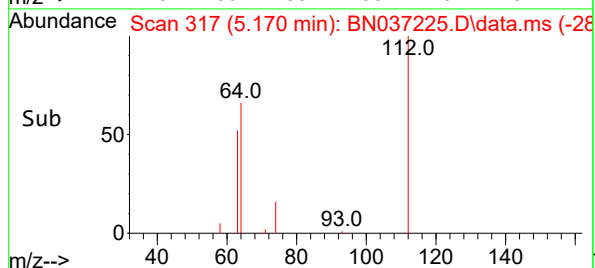
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

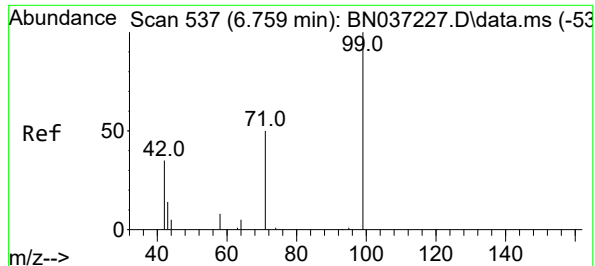


#4  
2-Fluorophenol  
Concen: 0.106 ng  
RT: 5.170 min Scan# 317  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33



Tgt Ion:112 Resp: 224  
Ion Ratio Lower Upper  
112 100  
64 69.2 57.2 85.8  
63 65.6 39.8 59.6#





#5

Phenol-d6

Concen: 0.085 ng

RT: 6.759 min Scan# 51

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

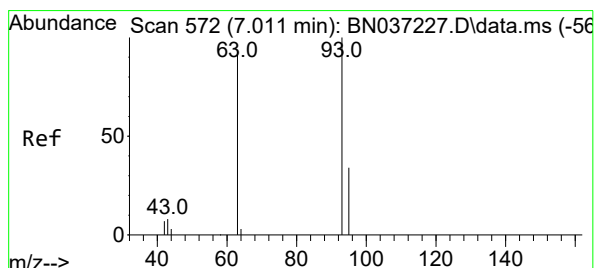
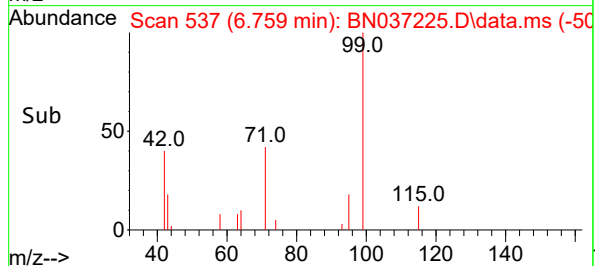
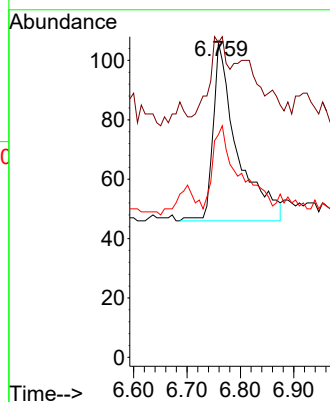
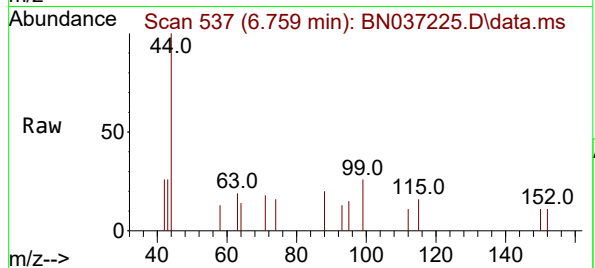
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 99    | Resp: | 188  |
| Ion Ratio | Lower | Upper |      |
| 99        | 100   |       |      |
| 42        | 33.0  | 36.2  | 54.4 |
| 71        | 51.1  | 42.4  | 63.6 |

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#6

bis(2-Chloroethyl)ether

Concen: 0.083 ng

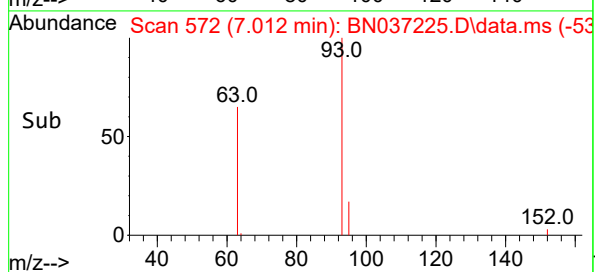
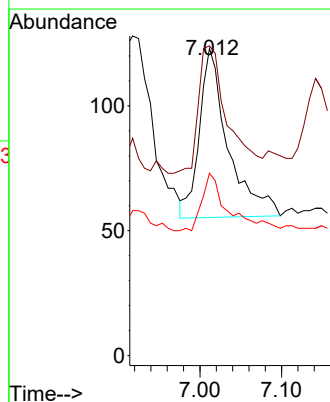
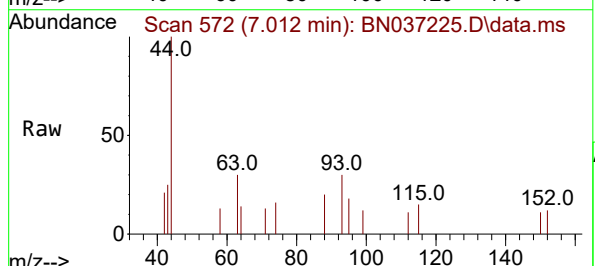
RT: 7.012 min Scan# 572

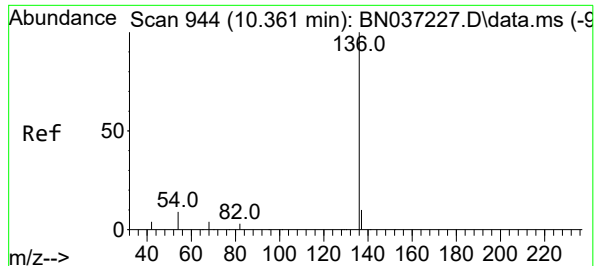
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

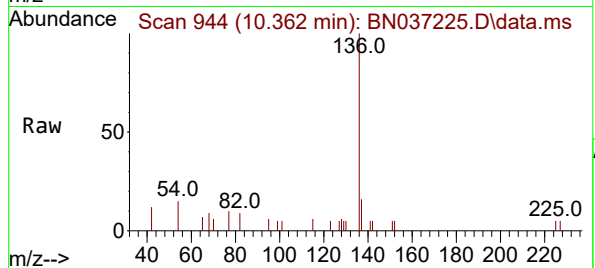
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 93    | Resp: | 165   |
| Ion Ratio | Lower | Upper |       |
| 93        | 100   |       |       |
| 63        | 76.4  | 75.2  | 112.8 |
| 95        | 30.9  | 28.3  | 42.5  |





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.362 min Scan# 944  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

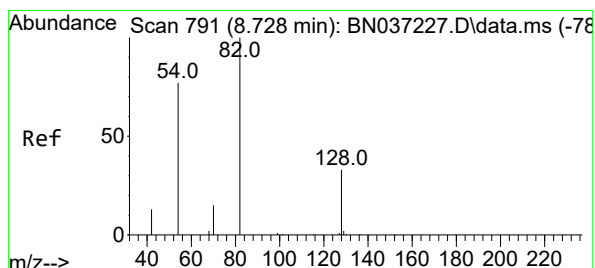
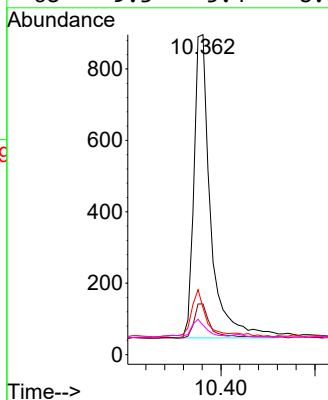
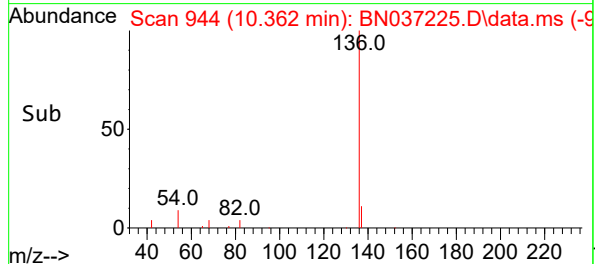
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion: 136 Resp: 209  
Ion Ratio Lower Upper  
136 100  
137 15.8 10.6 15.8  
54 14.6 9.2 13.8  
68 9.3 5.4 8.0#

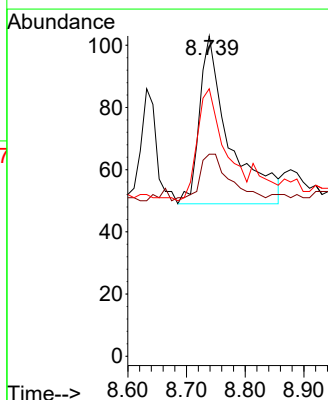
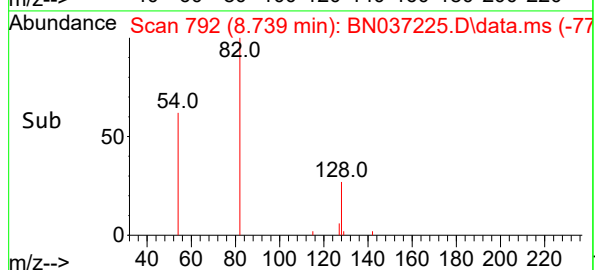
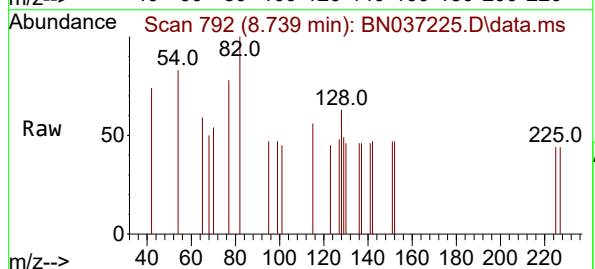
Manual Integrations  
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Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

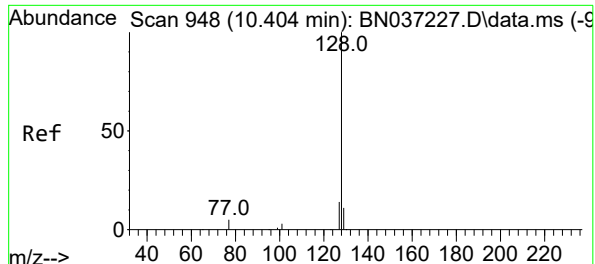


#8  
Nitrobenzene-d5  
Concen: 0.093 ng  
RT: 8.739 min Scan# 792  
Delta R.T. 0.011 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion: 82 Resp: 192  
Ion Ratio Lower Upper  
82 100  
128 63.1 31.2 46.8#  
54 83.5 63.3 94.9







#9

Naphthalene

Concen: 0.102 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

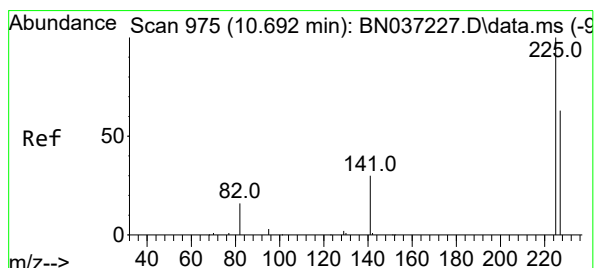
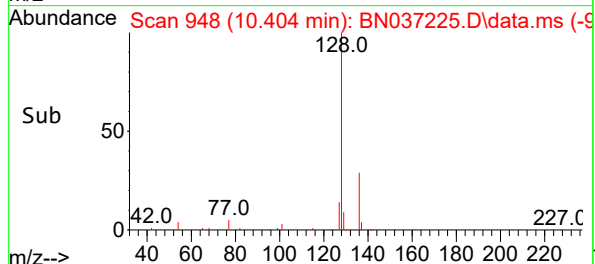
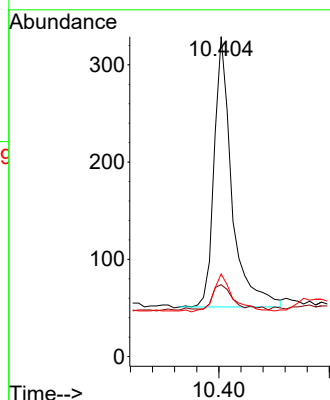
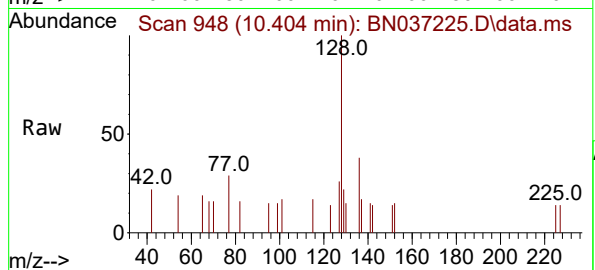
Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 128   | Resp: | 62   |
| Ion Ratio | Lower | Upper |      |
| 128       | 100   |       |      |
| 129       | 22.5  | 10.7  | 16.1 |
| 127       | 25.8  | 12.6  | 19.0 |

Manual Integrations  
APPROVEDReviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

#10

Hexachlorobutadiene

Concen: 0.106 ng

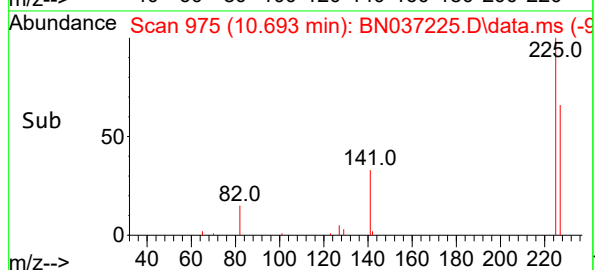
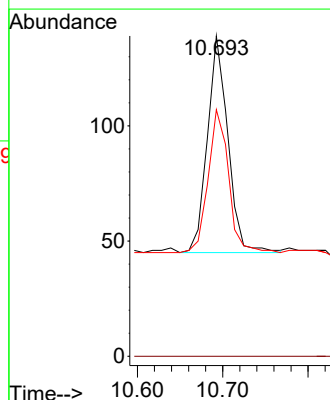
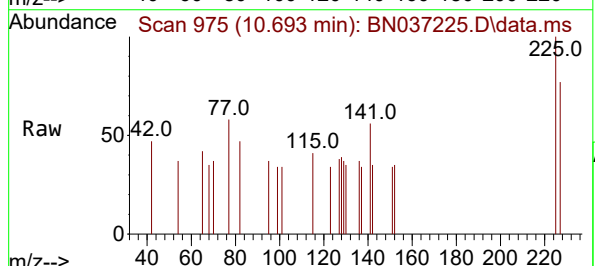
RT: 10.693 min Scan# 975

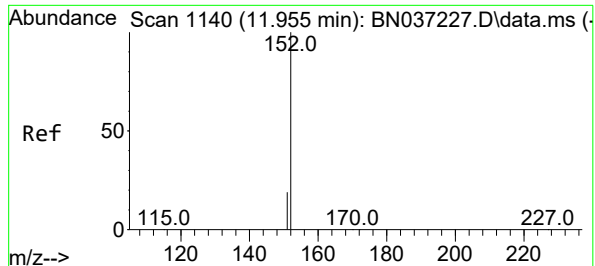
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

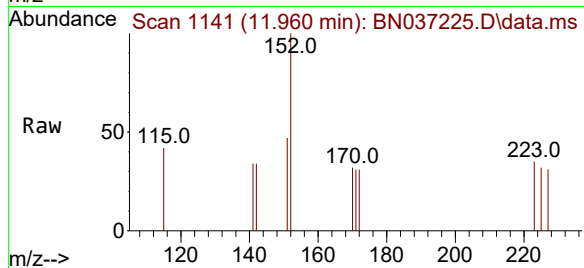
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 157  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 0.0   | 0.0   | 0.0  |
| 227       | 65.6  | 49.2  | 73.8 |





#11  
2-Methylnaphthalene-d10  
Concen: 0.092 ng  
RT: 11.960 min Scan# 1141  
Delta R.T. 0.005 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

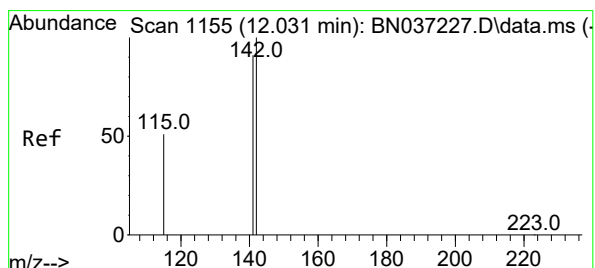
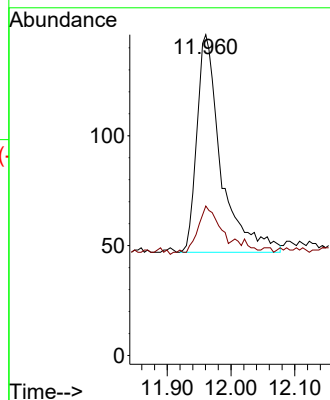
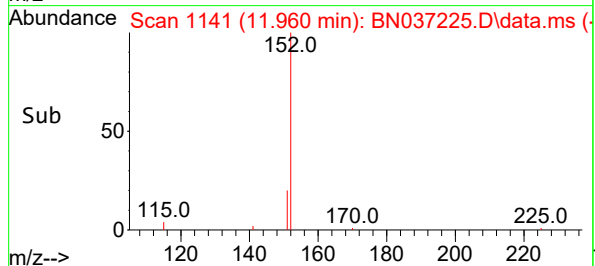
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



Tgt Ion:152 Resp: 260  
Ion Ratio Lower Upper  
152 100  
151 20.8 17.9 26.9

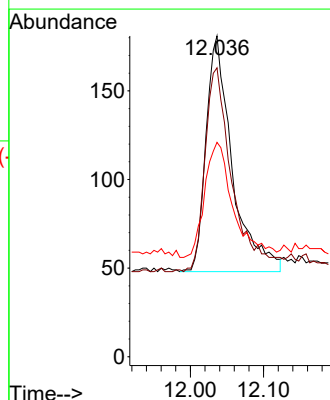
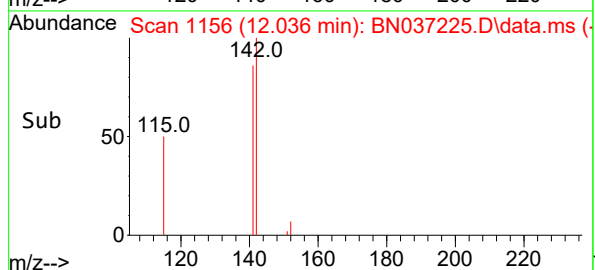
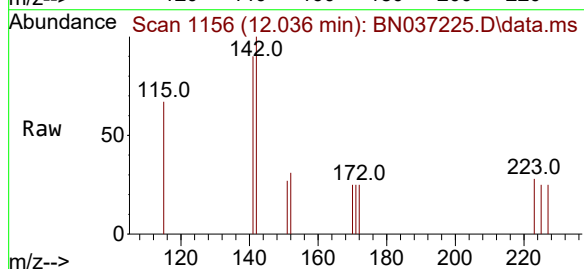
Manual Integrations  
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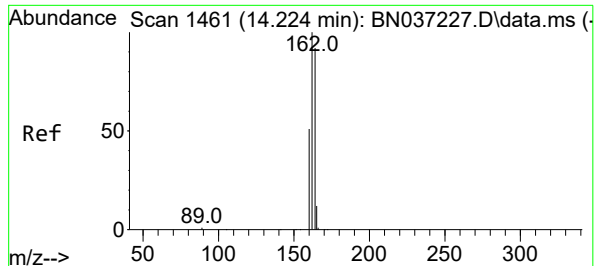
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#12  
2-Methylnaphthalene  
Concen: 0.090 ng  
RT: 12.036 min Scan# 1156  
Delta R.T. 0.005 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

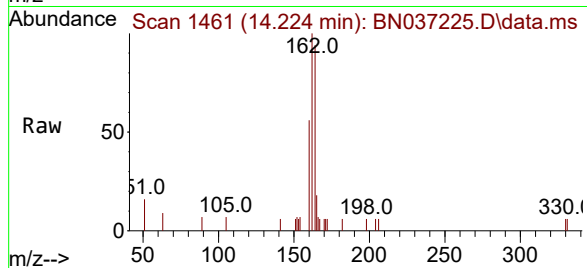
Tgt Ion:142 Resp: 331  
Ion Ratio Lower Upper  
142 100  
141 90.1 73.0 109.6  
115 66.9 43.3 64.9#





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.224 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

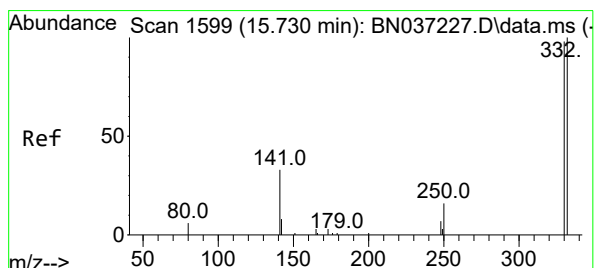
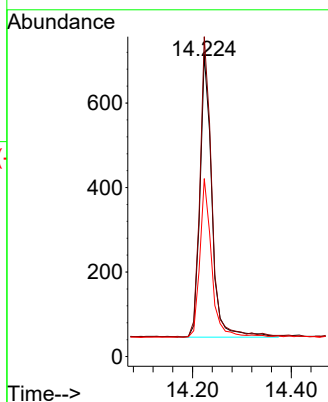
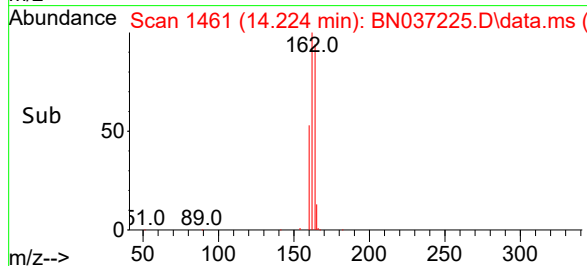
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BNA\_N  
ClientSampleId :  
SSTDICC0.1



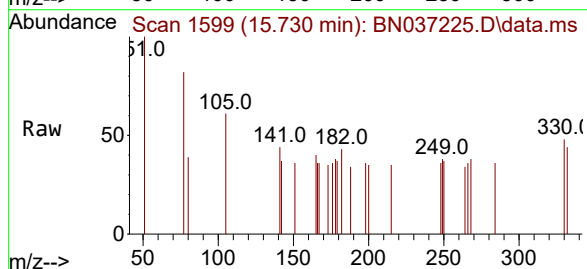
Tgt Ion:164 Resp: 1114  
Ion Ratio Lower Upper  
164 100  
162 106.2 86.7 130.1  
160 59.0 45.8 68.6

Manual Integrations  
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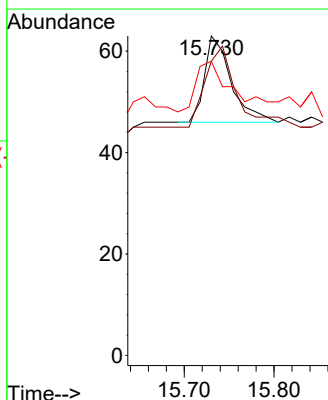
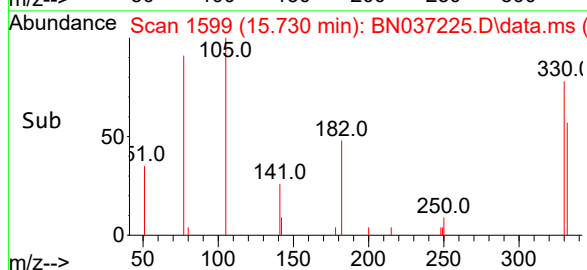
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

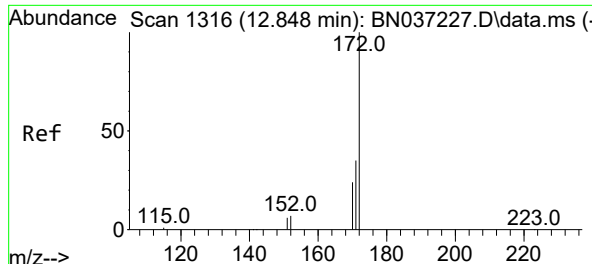


#14  
2,4,6-Tribromophenol  
Concen: 0.076 ng  
RT: 15.730 min Scan# 1599  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33



Tgt Ion:330 Resp: 35  
Ion Ratio Lower Upper  
330 100  
332 111.4 74.9 112.3  
141 82.9 45.1 67.7#





#15

2-Fluorobiphenyl

Concen: 0.093 ng

RT: 12.853 min Scan# 1317

Delta R.T. 0.005 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

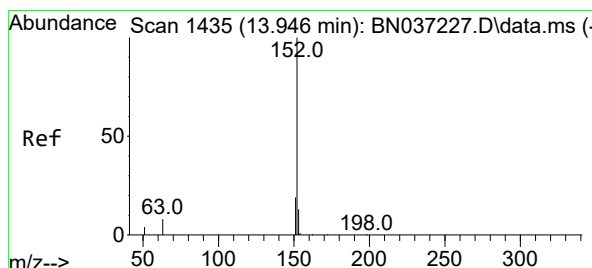
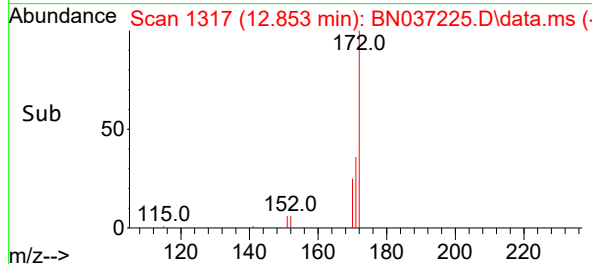
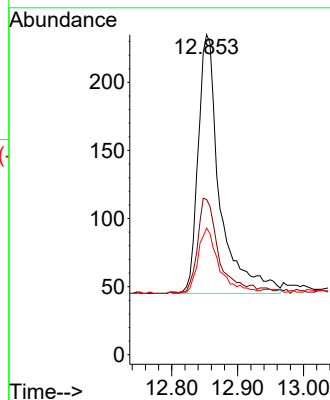
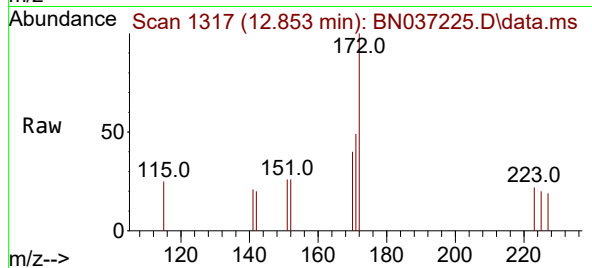
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 430   |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 48.5  | 29.8  | 44.8  |
| 170      | 39.6  | 21.1  | 31.7  |

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#16

Acenaphthylene

Concen: 0.097 ng

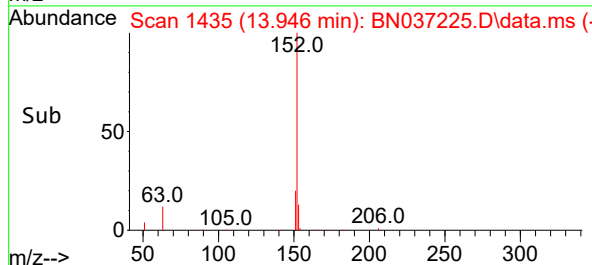
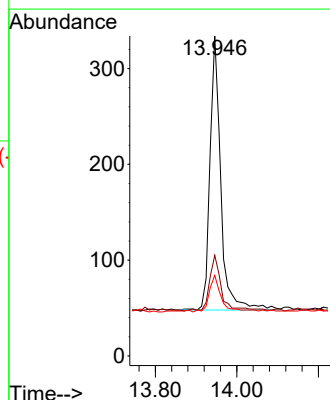
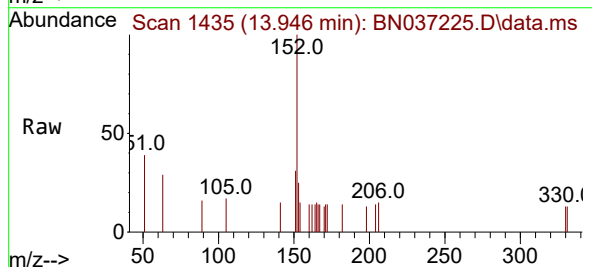
RT: 13.946 min Scan# 1435

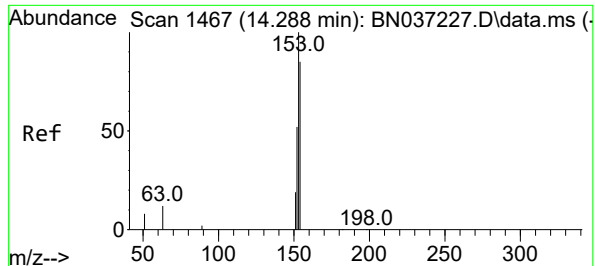
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

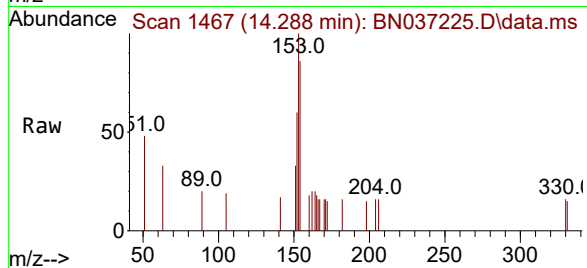
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 531   |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 22.4  | 15.7  | 23.5  |
| 153      | 14.9  | 10.7  | 16.1  |





#17  
Acenaphthene  
Concen: 0.098 ng  
RT: 14.288 min Scan# 1467  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

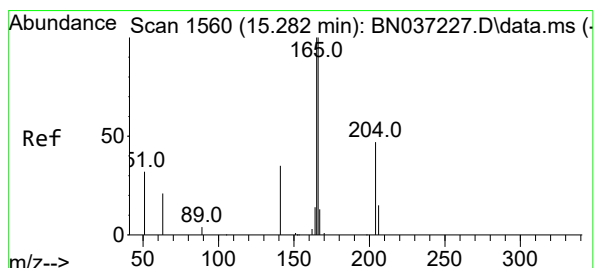
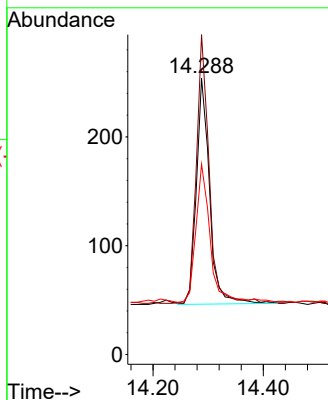
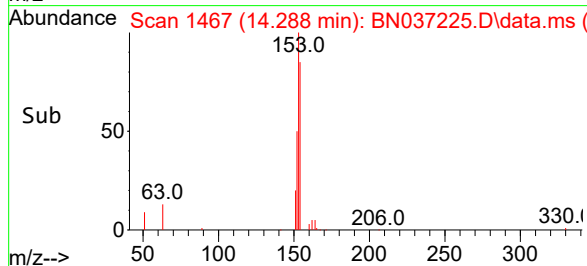
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



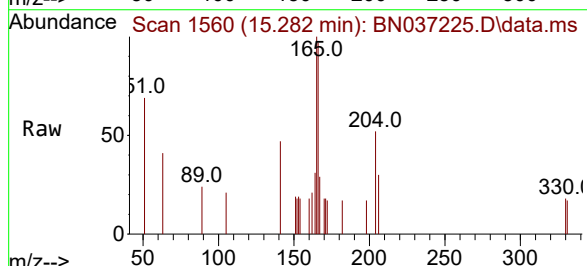
Tgt Ion:154 Resp: 340  
Ion Ratio Lower Upper  
154 100  
153 114.5 94.6 141.8  
152 65.9 49.6 74.4

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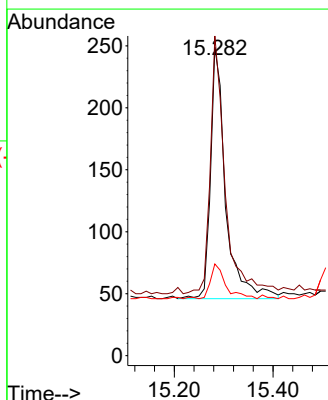
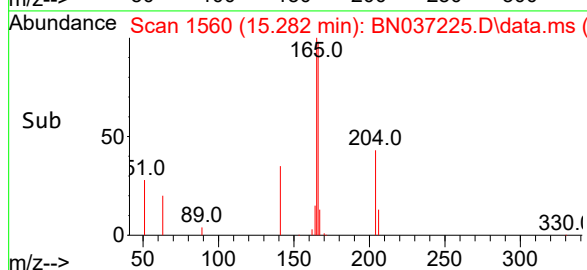
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

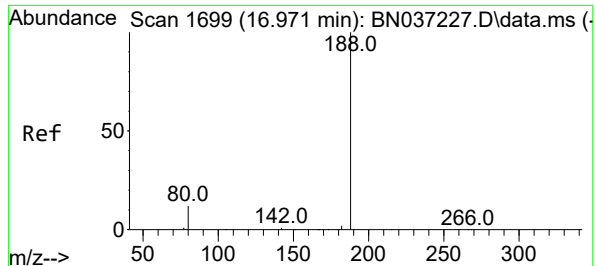


#18  
Fluorene  
Concen: 0.095 ng  
RT: 15.282 min Scan# 1560  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33



Tgt Ion:166 Resp: 430  
Ion Ratio Lower Upper  
166 100  
165 99.3 79.8 119.6  
167 14.0 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 1

Delta R.T. 0.013 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

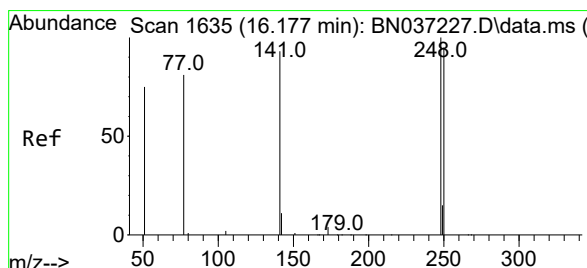
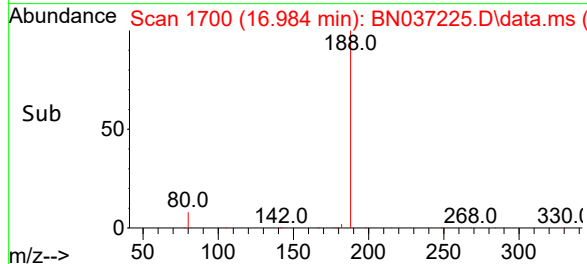
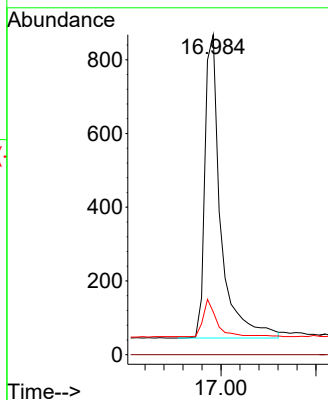
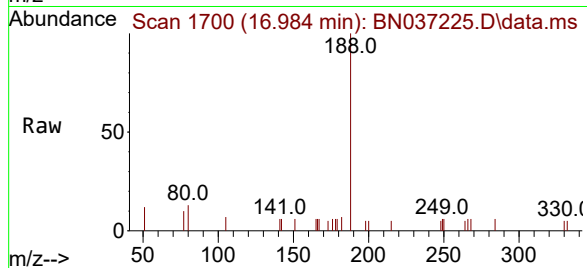
Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:188 | Resp: | 1910  |
| Ion Ratio   | Lower | Upper |
| 188         | 100   |       |
| 94          | 0.0   | 0.0   |
| 80          | 13.4  | 18.4  |

Manual Integrations  
APPROVEDReviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

#21

4-Bromophenyl-phenylether

Concen: 0.095 ng

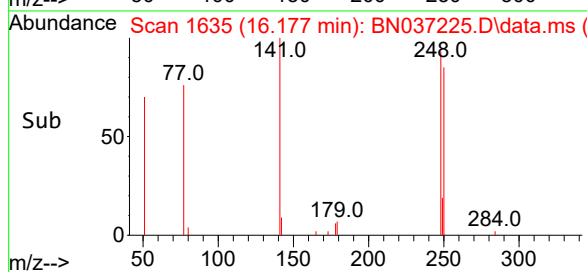
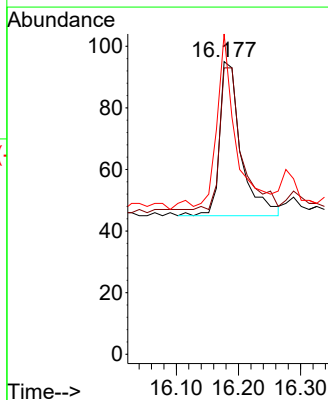
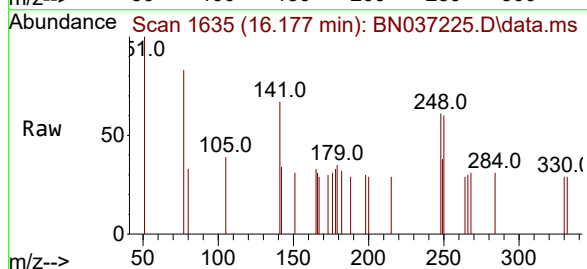
RT: 16.177 min Scan# 1635

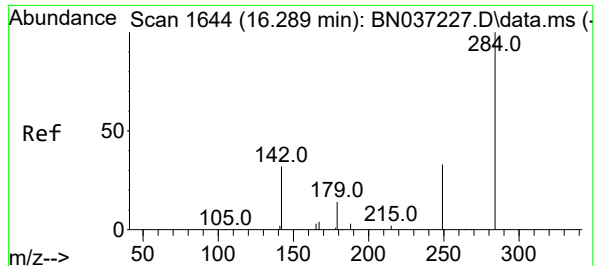
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

|             |       |       |
|-------------|-------|-------|
| Tgt Ion:248 | Resp: | 119   |
| Ion Ratio   | Lower | Upper |
| 248         | 100   |       |
| 250         | 97.9  | 76.8  |
| 141         | 109.5 | 75.6  |





#22

Hexachlorobenzene

Concen: 0.113 ng

RT: 16.289 min Scan# 1644

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA\_N

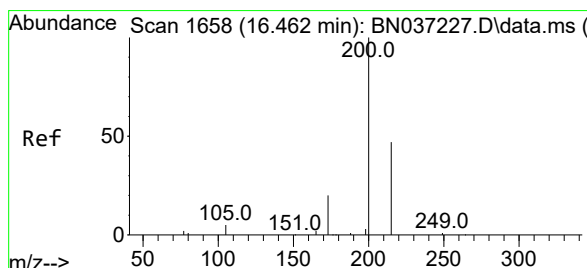
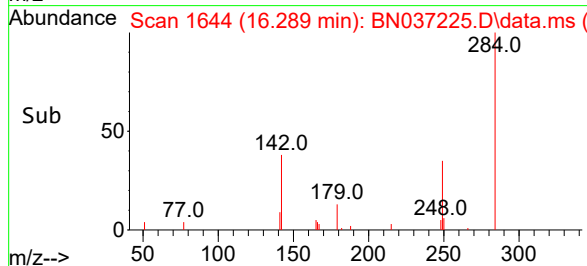
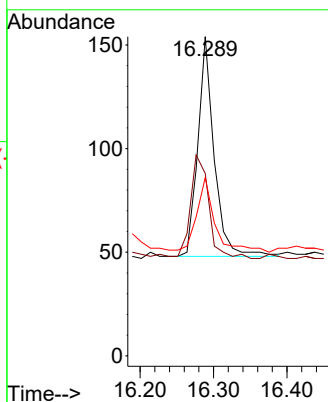
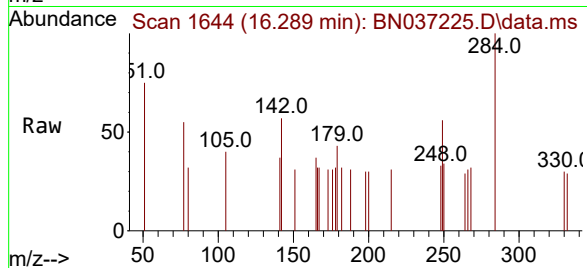
ClientSampleId :

SSTDIC0.1

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 284   | Resp: | 164  |
| Ion Ratio | Lower | Upper |      |
| 284       | 100   |       |      |
| 142       | 52.4  | 43.8  | 65.6 |
| 249       | 38.4  | 28.4  | 42.6 |

Manual Integrations  
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Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#23

Atrazine

Concen: 0.096 ng

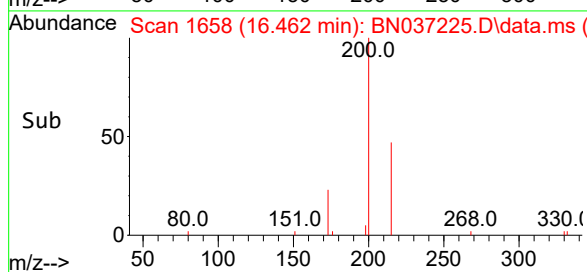
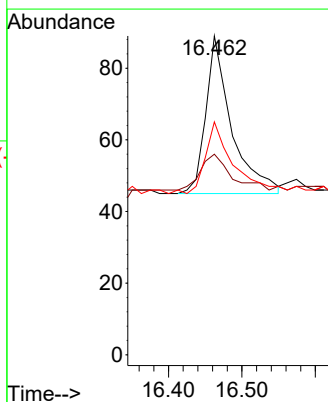
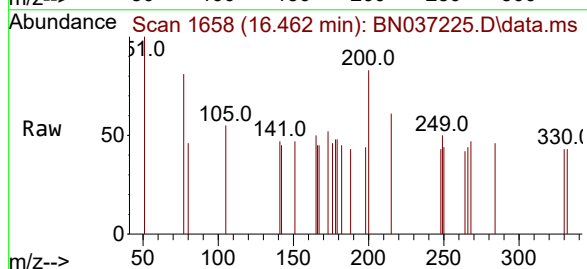
RT: 16.462 min Scan# 1658

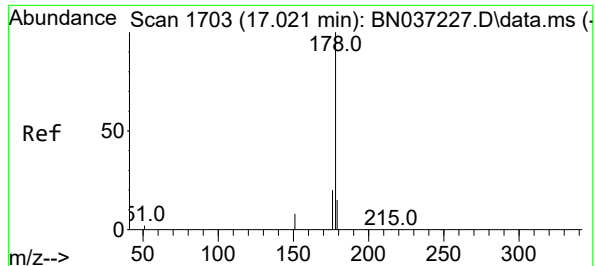
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 200   | Resp: | 107   |
| Ion Ratio | Lower | Upper |       |
| 200       | 100   |       |       |
| 173       | 62.9  | 25.1  | 37.7# |
| 215       | 73.0  | 43.7  | 65.5# |





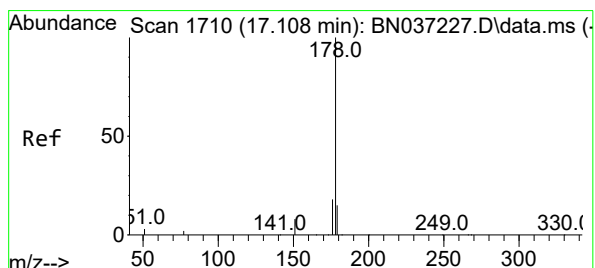
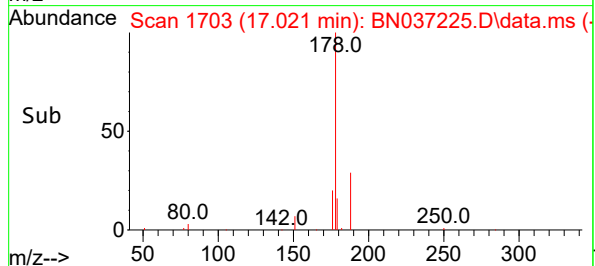
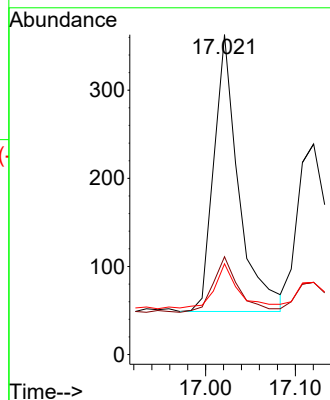
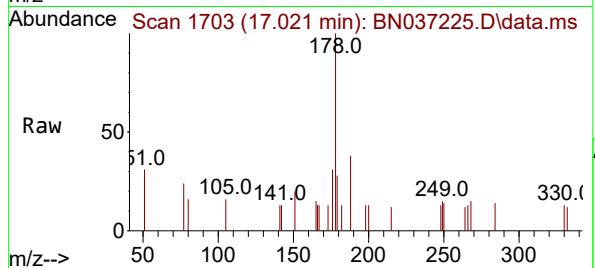
#25  
Phenanthrene  
Concen: 0.099 ng  
RT: 17.021 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:178 Resp: 600  
Ion Ratio Lower Upper  
178 100  
176 20.3 16.3 24.5  
179 15.8 12.6 18.8

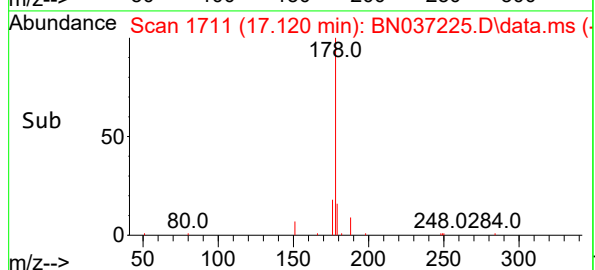
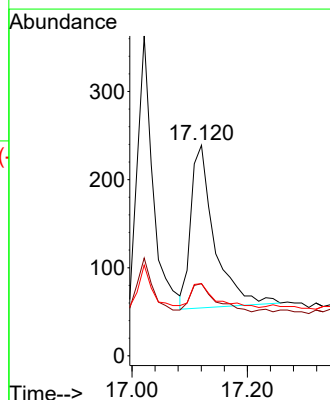
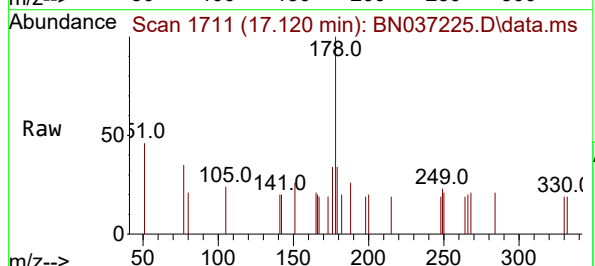
Manual Integrations  
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Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

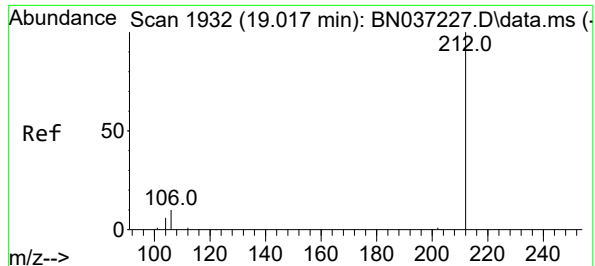


#26  
Anthracene  
Concen: 0.094 ng  
RT: 17.120 min Scan# 1711  
Delta R.T. 0.013 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:178 Resp: 524  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.1 22.7  
179 15.1 12.4 18.6







#27

Fluoranthene-d10

Concen: 0.097 ng

RT: 19.021 min Scan# 1933

Delta R.T. 0.005 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA\_N

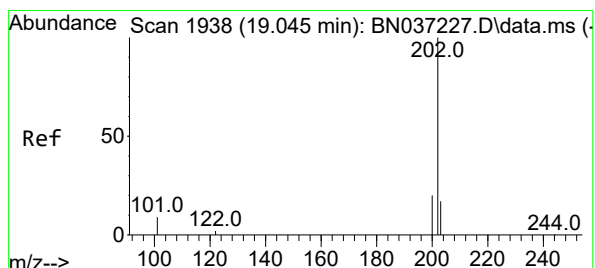
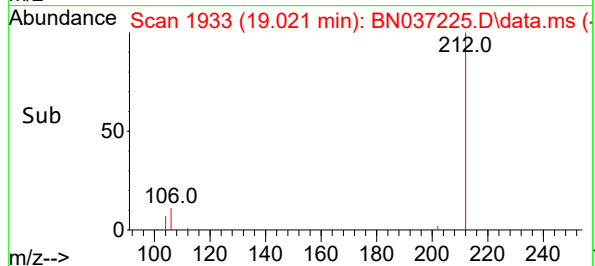
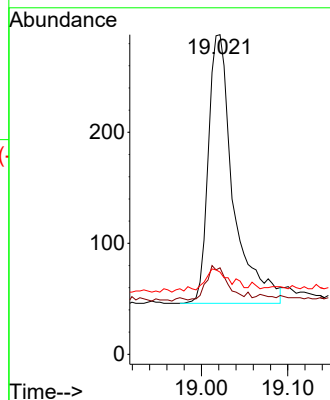
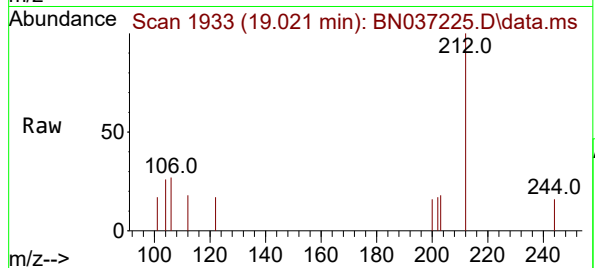
ClientSampleId :

SSTDICC0.1

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 212   | Resp: | 480  |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 10.5  | 9.3   | 13.9 |
| 104       | 9.7   | 5.7   | 8.5  |

Manual Integrations  
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Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#28

Fluoranthene

Concen: 0.099 ng

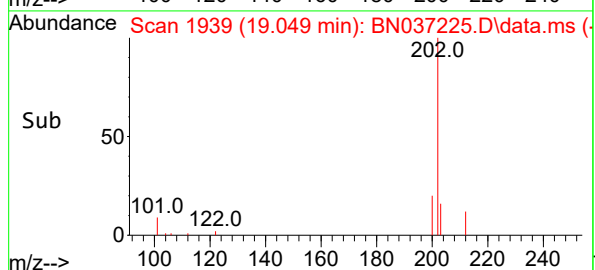
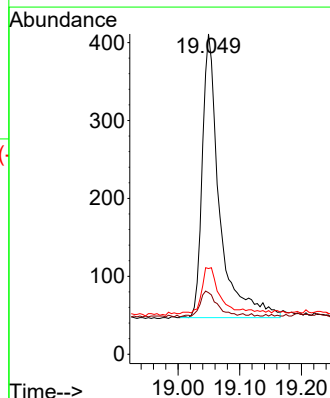
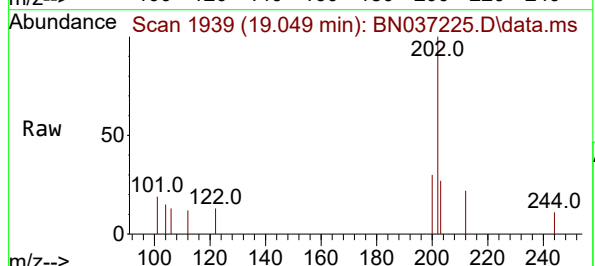
RT: 19.049 min Scan# 1939

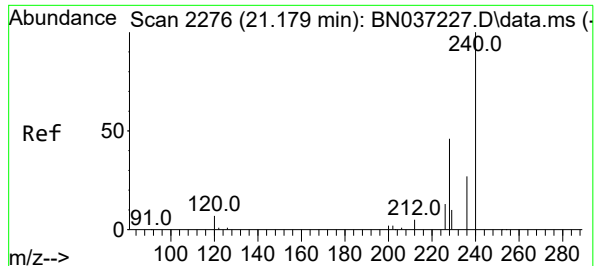
Delta R.T. 0.005 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 704  |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 9.1   | 7.1   | 10.7 |
| 203       | 15.9  | 13.0  | 19.6 |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA\_N

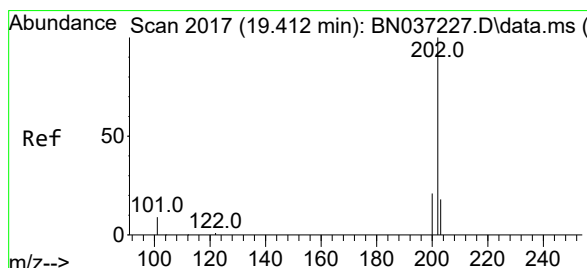
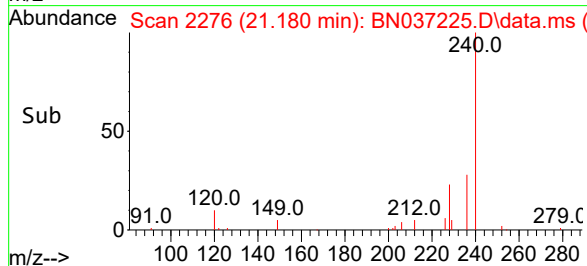
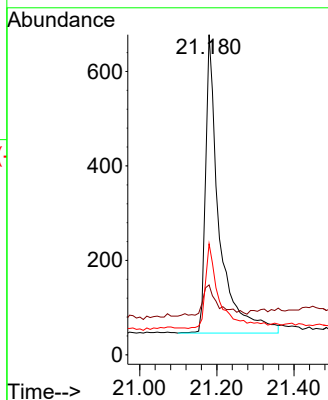
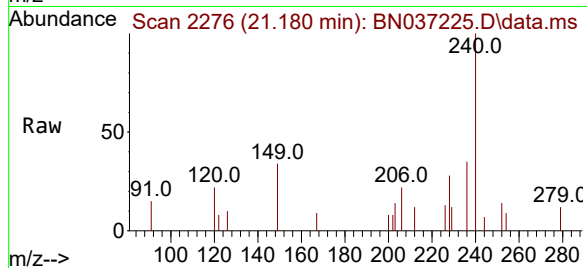
ClientSampleId :

SSTDIC0.1

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 240   | Resp: | 1540  |
| Ion      | Ratio | Lower | Upper |
| 240      | 100   |       |       |
| 120      | 21.8  | 11.3  | 16.9  |
| 236      | 34.7  | 24.4  | 36.6  |

Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#30

Pyrene

Concen: 0.098 ng

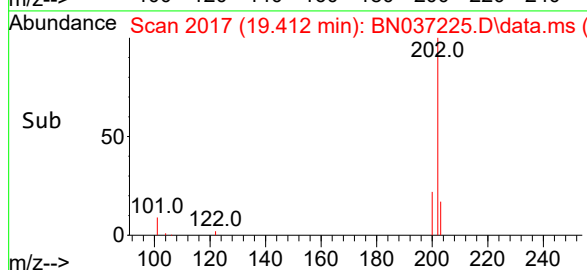
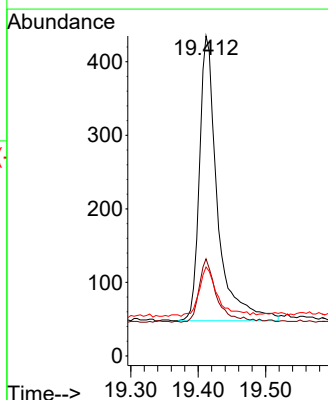
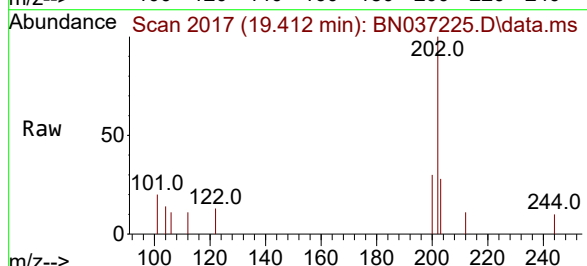
RT: 19.412 min Scan# 2017

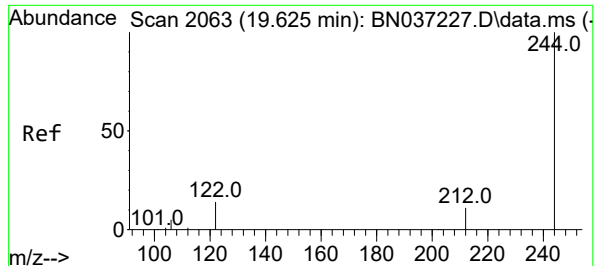
Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 202   | Resp: | 715   |
| Ion      | Ratio | Lower | Upper |
| 202      | 100   |       |       |
| 200      | 21.8  | 17.2  | 25.8  |
| 203      | 18.0  | 14.3  | 21.5  |





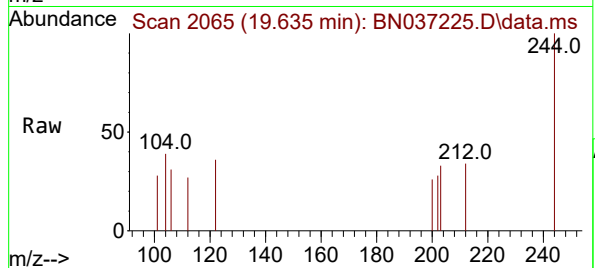
#31  
Terphenyl-d14  
Concen: 0.090 ng  
RT: 19.635 min Scan# 2065  
Delta R.T. 0.009 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.1

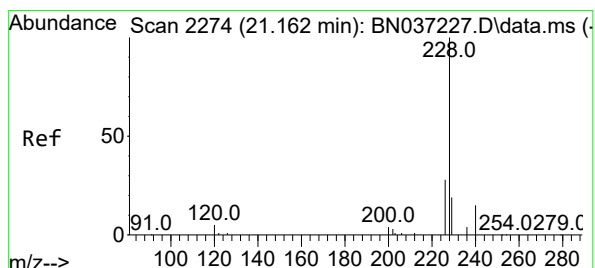
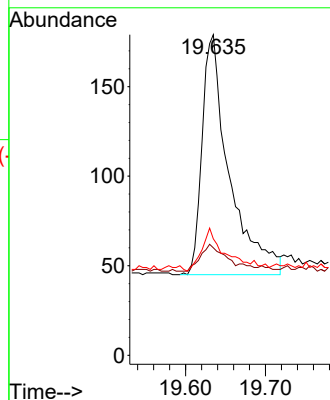
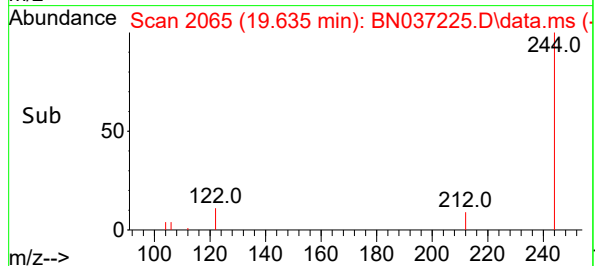


Tgt Ion:244 Resp: 315  
Ion Ratio Lower Upper  
244 100  
212 33.5 12.2 18.2  
122 36.3 14.3 21.5

Manual Integrations

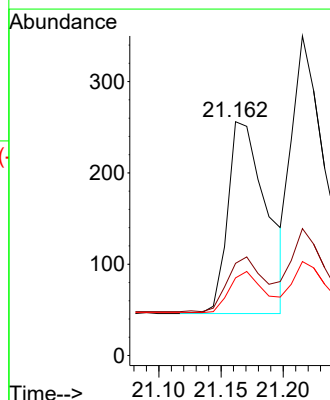
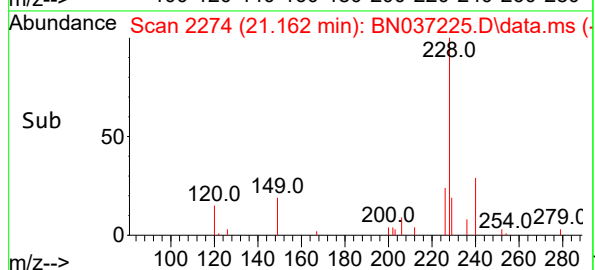
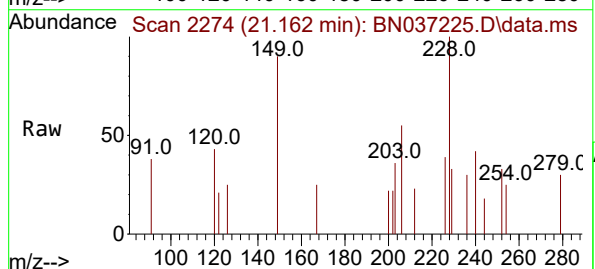
APPROVED

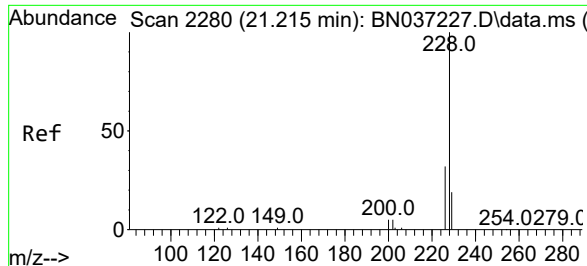
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#32  
Benzo(a)anthracene  
Concen: 0.087 ng  
RT: 21.162 min Scan# 2274  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:228 Resp: 454  
Ion Ratio Lower Upper  
228 100  
226 39.5 23.8 35.8#  
229 33.2 17.0 25.4#





#33

Chrysene

Concen: 0.106 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA\_N

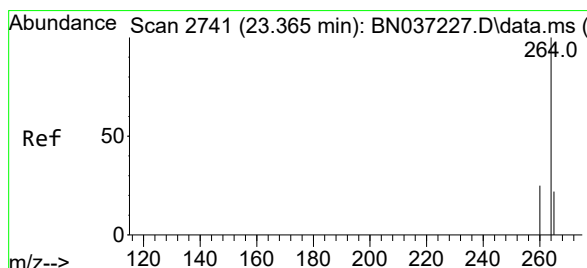
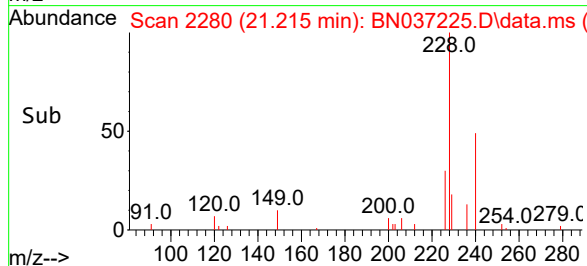
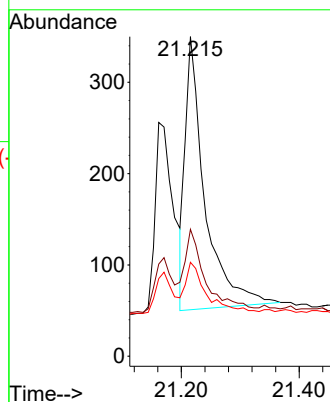
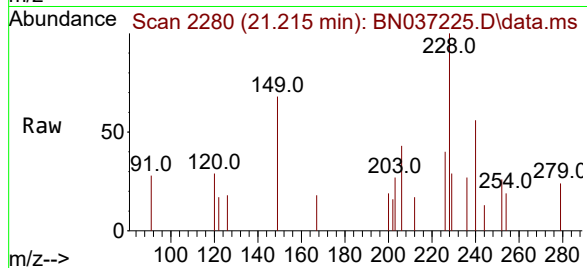
ClientSampleId :

SSTDICC0.1

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 689  |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 39.7  | 25.8  | 38.6 |
| 229       | 29.4  | 17.0  | 25.4 |

Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#35

Perylene-d12

Concen: 0.400 ng

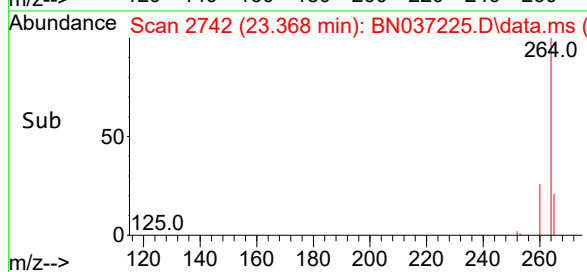
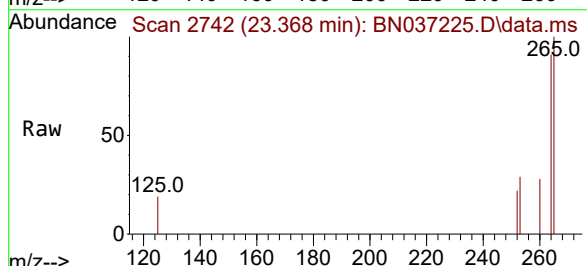
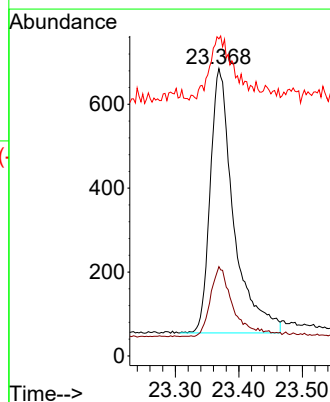
RT: 23.368 min Scan# 2742

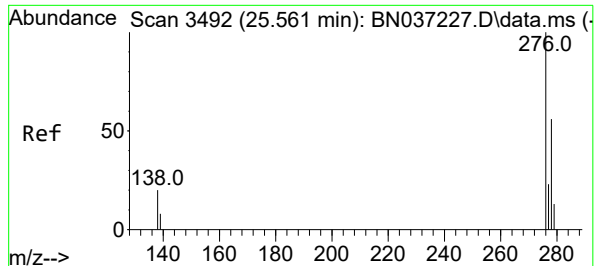
Delta R.T. 0.003 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

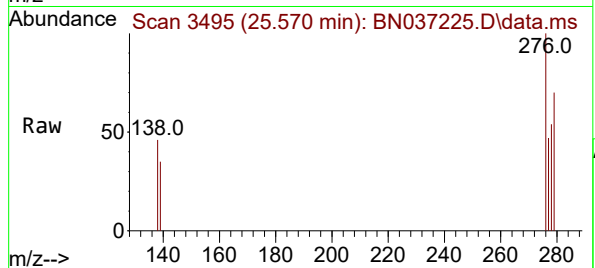
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 264   | Resp: | 1617 |
| Ion Ratio | Lower | Upper |      |
| 264       | 100   |       |      |
| 260       | 31.1  | 22.8  | 34.2 |
| 265       | 110.4 | 66.4  | 99.6 |





#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.093 ng  
RT: 25.570 min Scan# 3492  
Delta R.T. 0.009 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

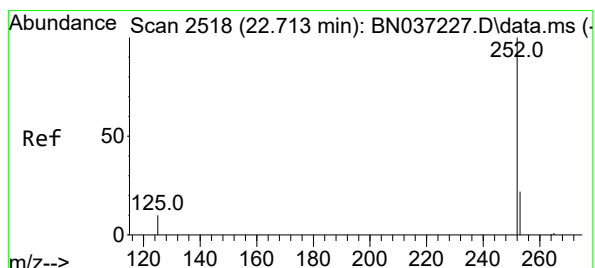
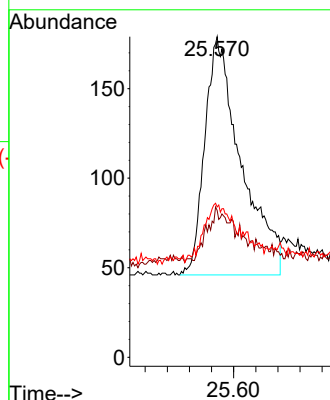
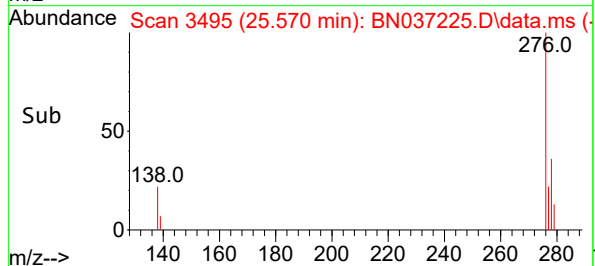
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1



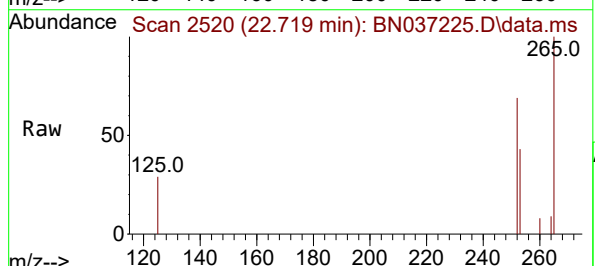
Tgt Ion:276 Resp: 609  
Ion Ratio Lower Upper  
276 100  
138 1.3 16.8 25.2#  
277 18.6 19.5 29.3#

Manual Integrations  
APPROVED

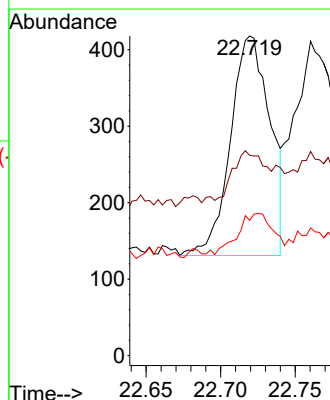
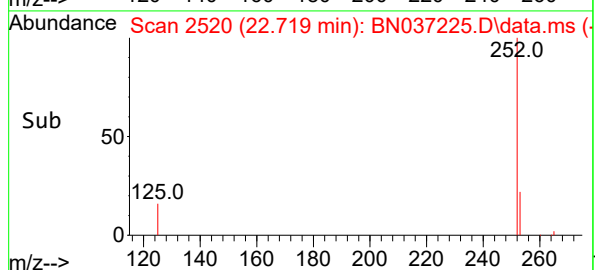
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

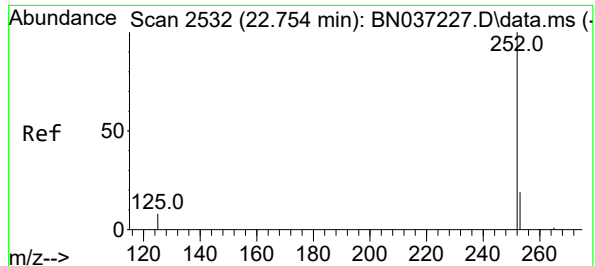


#37  
Benzo(b)fluoranthene  
Concen: 0.089 ng  
RT: 22.719 min Scan# 2520  
Delta R.T. 0.006 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33



Tgt Ion:252 Resp: 529  
Ion Ratio Lower Upper  
252 100  
253 62.7 24.9 37.3#  
125 42.3 12.9 19.3#





#38

Benzo(k)fluoranthene

Concen: 0.109 ng m

RT: 22.760 min Scan# 21

Delta R.T. 0.006 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.1

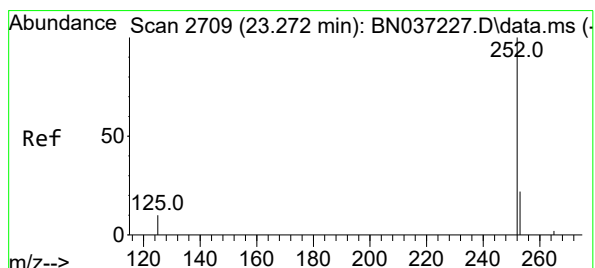
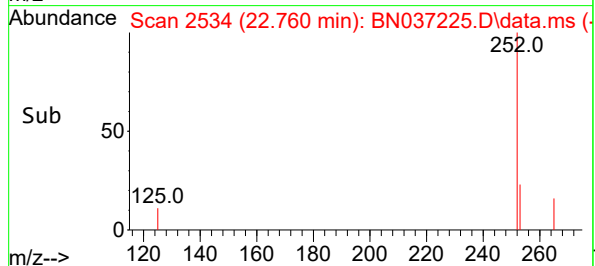
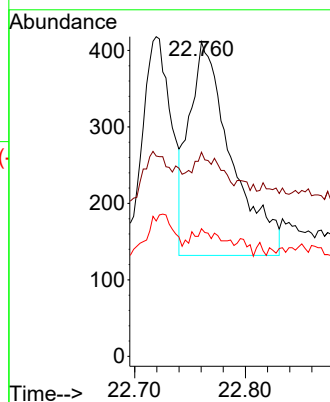
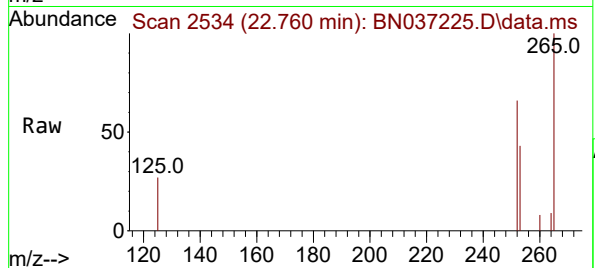
Tgt Ion:252 Resp: 74

| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 65.0  | 24.6  | 37.0  |
| 125 | 40.6  | 13.4  | 20.2  |

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.284 min Scan# 2713

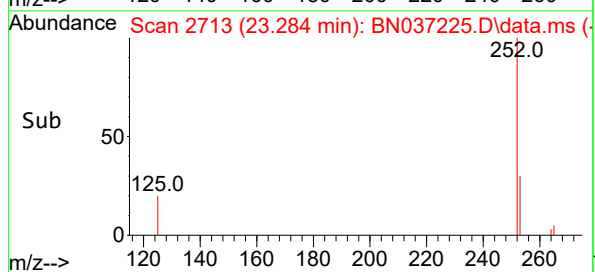
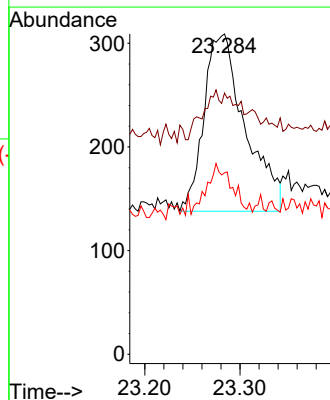
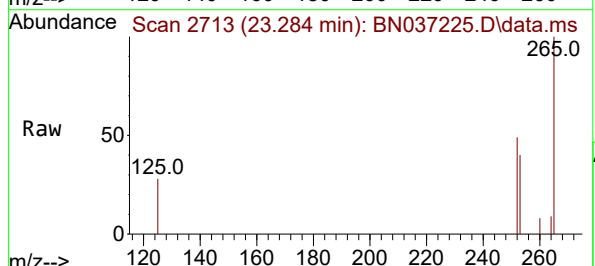
Delta R.T. 0.012 min

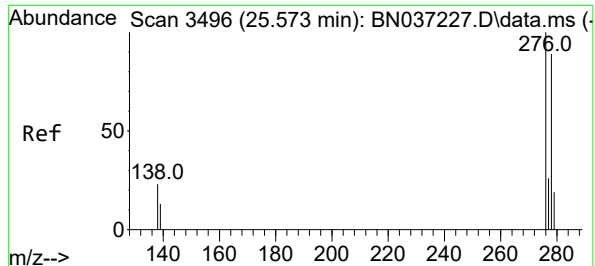
Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Tgt Ion:252 Resp: 514

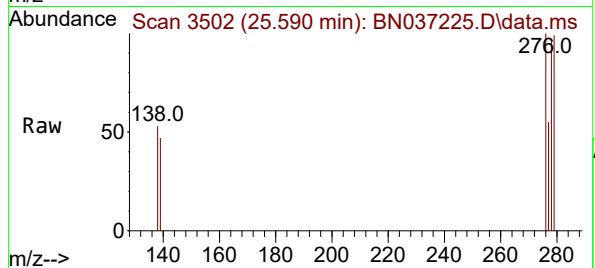
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 252 | 100   |       |       |
| 253 | 81.6  | 29.4  | 44.2  |
| 125 | 56.6  | 16.2  | 24.2  |





#40  
Dibenzo(a,h)anthracene  
Concen: 0.091 ng m  
RT: 25.590 min Scan# 3496  
Delta R.T. 0.018 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

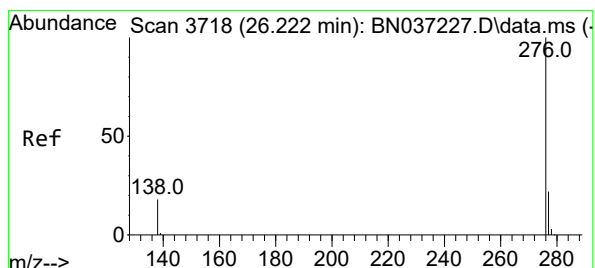
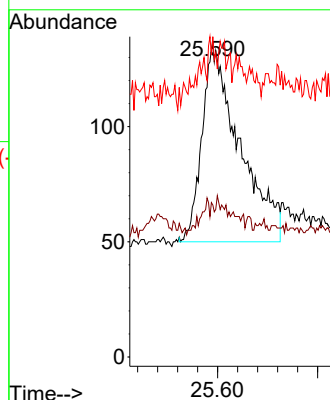
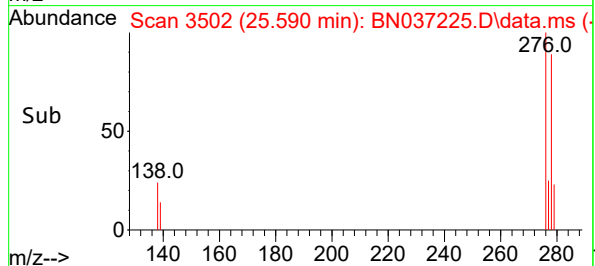
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1



Tgt Ion:278 Resp: 44  
Ion Ratio Lower Upper  
278 100  
139 48.9 17.8 26.6  
279 103.0 31.3 46.9

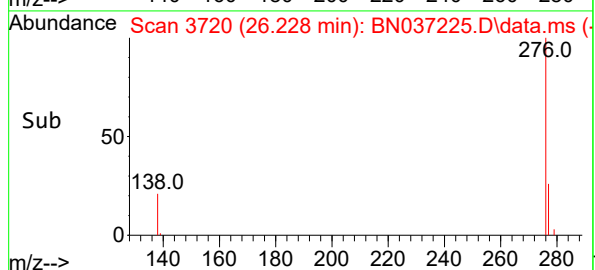
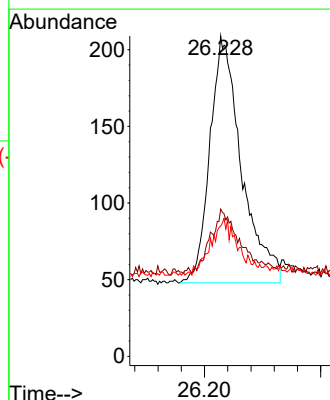
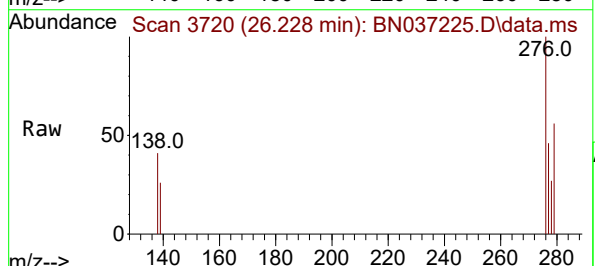
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#41  
Benzo(g,h,i)perylene  
Concen: 0.101 ng  
RT: 26.228 min Scan# 3720  
Delta R.T. 0.006 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:276 Resp: 608  
Ion Ratio Lower Upper  
276 100  
277 45.9 22.0 33.0#  
138 40.7 18.4 27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037226.D  
 Acq On : 13 Jun 2025 14:10  
 Operator : RC/JU  
 Sample : SSTDICC0.2  
 Misc :  
 ALS Vial : 4 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.2

Quant Time: Jun 13 18:36:48 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:34:15 2025  
 Response via : Initial Calibration

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.582  | 152  | 914      | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.361 | 136  | 2268     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1246     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 2198     | 0.400 | ng    | # 0.01   |
| 29) Chrysene-d12              | 21.179 | 240  | 1908     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.365 | 264  | 2012     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.177  | 112  | 469      | 0.209 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.759  | 99   | 428      | 0.181 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 345      | 0.154 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.960 | 152  | 571      | 0.188 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 91       | 0.176 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.853 | 172  | 953      | 0.182 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.017 | 212  | 1179     | 0.205 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.625 | 244  | 806      | 0.187 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.104  | 88   | 312      | 0.249 | ng    | 92       |
| 3) n-Nitrosodimethylamine     | 3.429  | 42   | 620      | 0.217 | ng    | # 95     |
| 6) bis(2-Chloroethyl)ether    | 7.011  | 93   | 324      | 0.153 | ng    | 95       |
| 9) Naphthalene                | 10.404 | 128  | 1307     | 0.199 | ng    | # 88     |
| 10) Hexachlorobutadiene       | 10.692 | 225  | 329      | 0.206 | ng    | # 94     |
| 12) 2-Methylnaphthalene       | 12.036 | 142  | 719      | 0.180 | ng    | 92       |
| 16) Acenaphthylene            | 13.946 | 152  | 1165     | 0.191 | ng    | 98       |
| 17) Acenaphthene              | 14.288 | 154  | 753      | 0.191 | ng    | 98       |
| 18) Fluorene                  | 15.282 | 166  | 940      | 0.186 | ng    | 98       |
| 20) 4,6-Dinitro-2-methylph... | 15.389 | 198  | 81       | 0.257 | ng    | # 60     |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 273      | 0.191 | ng    | 98       |
| 22) Hexachlorobenzene         | 16.289 | 284  | 350      | 0.211 | ng    | 99       |
| 23) Atrazine                  | 16.462 | 200  | 252      | 0.197 | ng    | # 78     |
| 24) Pentachlorophenol         | 16.636 | 266  | 153      | 0.188 | ng    | 90       |
| 25) Phenanthrene              | 17.021 | 178  | 1346     | 0.193 | ng    | 99       |
| 26) Anthracene                | 17.108 | 178  | 1186     | 0.186 | ng    | 98       |
| 28) Fluoranthene              | 19.045 | 202  | 1657     | 0.203 | ng    | 97       |
| 30) Pyrene                    | 19.412 | 202  | 1660     | 0.185 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.162 | 228  | 1149     | 0.178 | ng    | 93       |
| 33) Chrysene                  | 21.215 | 228  | 1643     | 0.205 | ng    | 94       |
| 34) Bis(2-ethylhexyl)phtha... | 21.108 | 149  | 1053     | 0.219 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.564 | 276  | 1512     | 0.186 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.713 | 252  | 1296     | 0.176 | ng    | # 85     |
| 38) Benzo(k)fluoranthene      | 22.757 | 252  | 1512     | 0.179 | ng    | # 81     |
| 39) Benzo(a)pyrene            | 23.275 | 252  | 1215     | 0.184 | ng    | # 71     |
| 40) Dibenzo(a,h)anthracene    | 25.576 | 278  | 1109     | 0.181 | ng    | # 76     |
| 41) Benzo(g,h,i)perylene      | 26.225 | 276  | 1469     | 0.195 | ng    | # 88     |

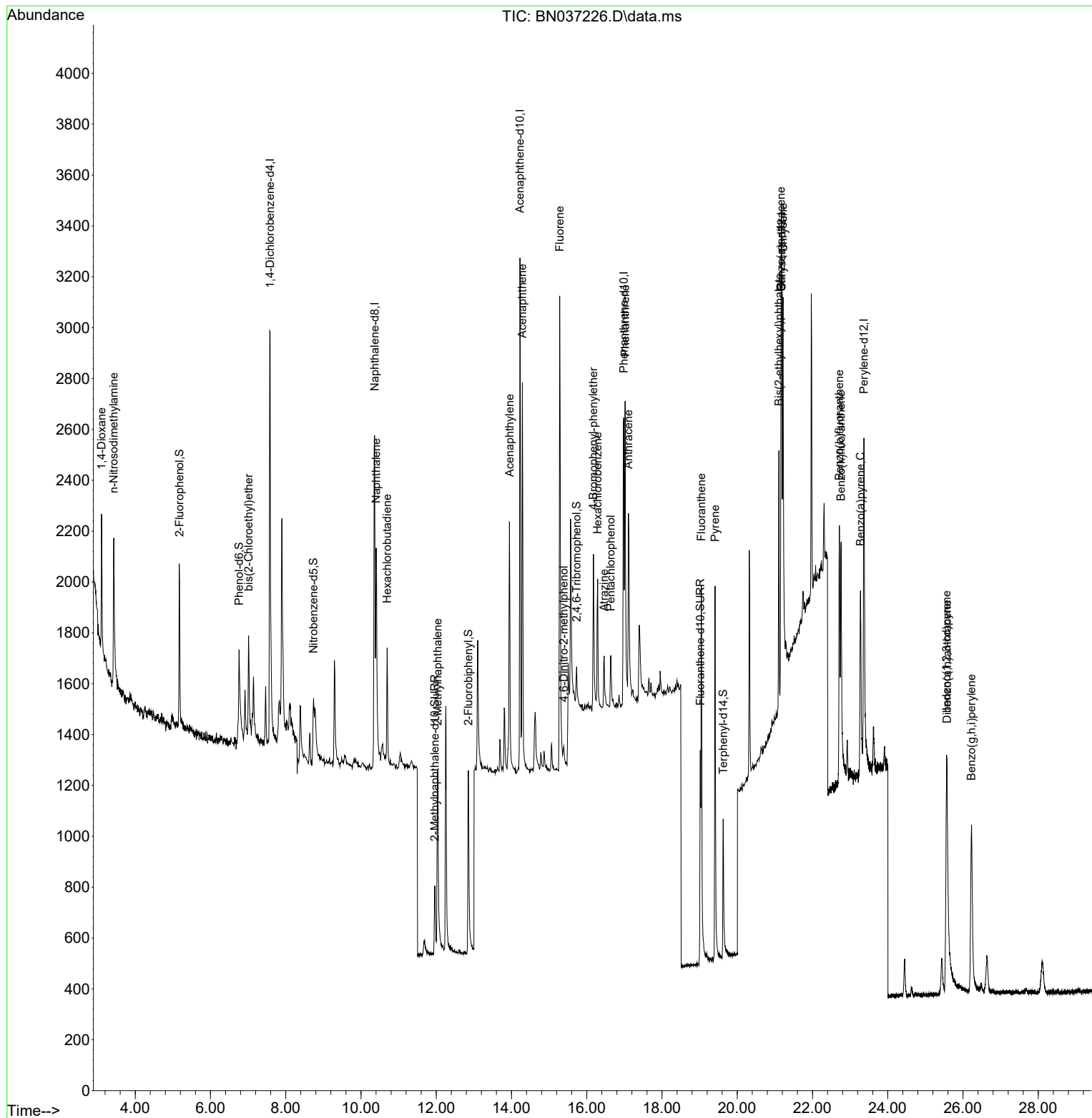
(#) = qualifier out of range (m) = manual integration (+) = signals summed

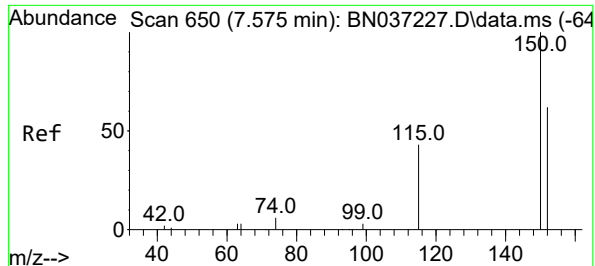


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Data File : BN037226.D  
Acq On : 13 Jun 2025 14:10  
Operator : RC/JU  
Sample : SSTDICC0.2  
Misc :  
ALS Vial : 4 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

Quant Time: Jun 13 18:36:48 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:34:15 2025  
Response via : Initial Calibration

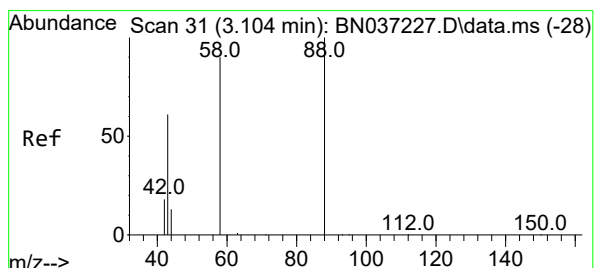
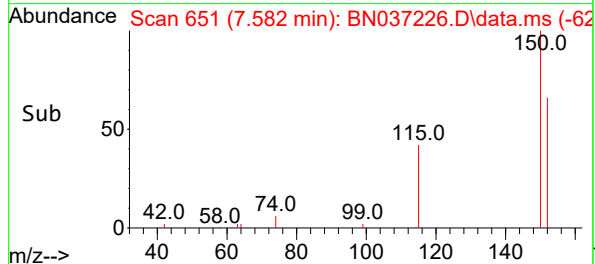
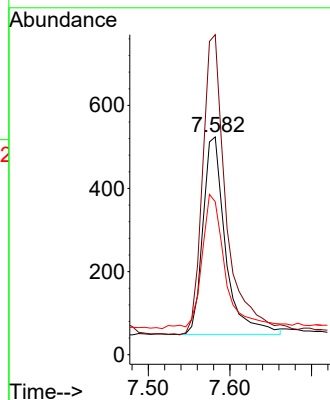
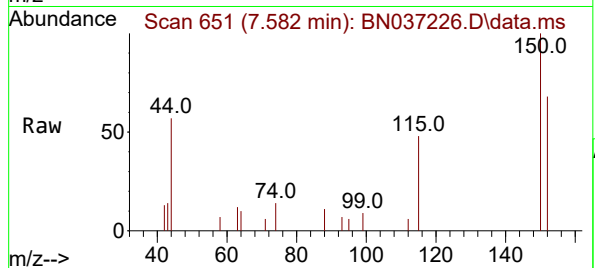




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.582 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

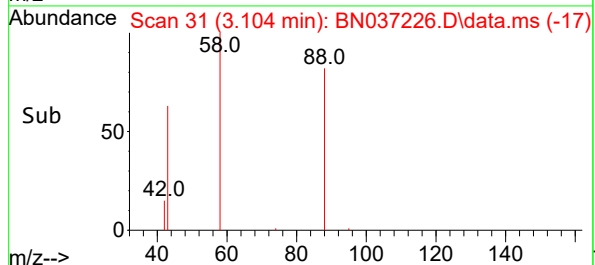
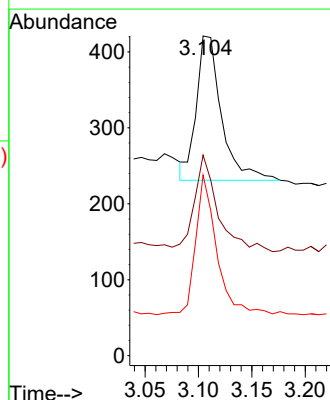
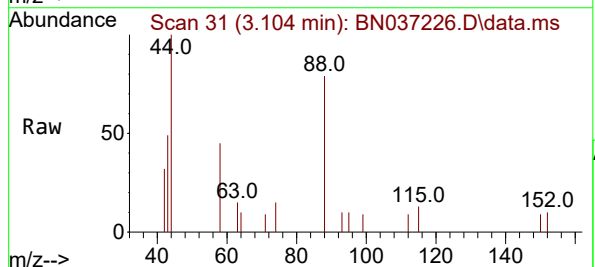
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

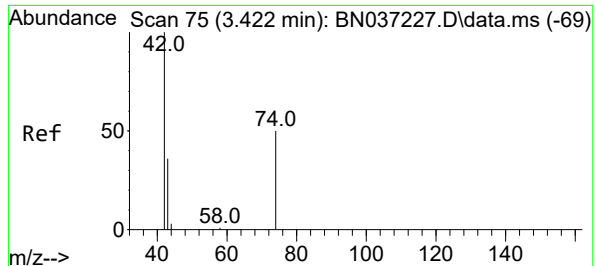
Tgt Ion:152 Resp: 914  
Ion Ratio Lower Upper  
152 100  
150 146.9 125.2 187.8  
115 70.2 58.4 87.6



#2  
1,4-Dioxane  
Concen: 0.249 ng  
RT: 3.104 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

Tgt Ion: 88 Resp: 312  
Ion Ratio Lower Upper  
88 100  
43 63.1 52.6 79.0  
58 80.8 73.5 110.3

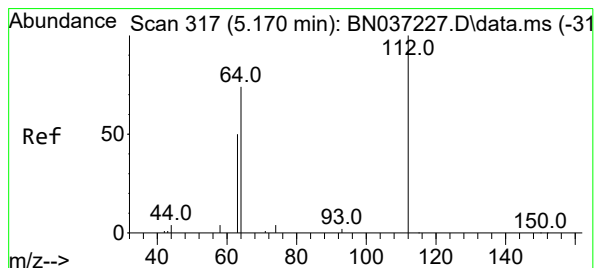
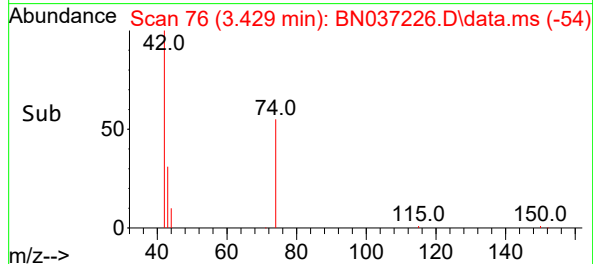
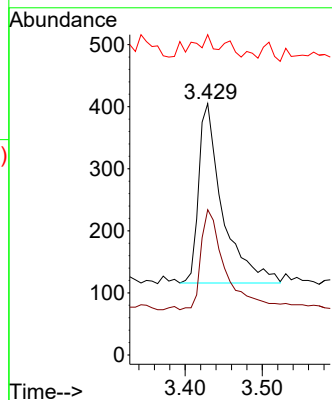
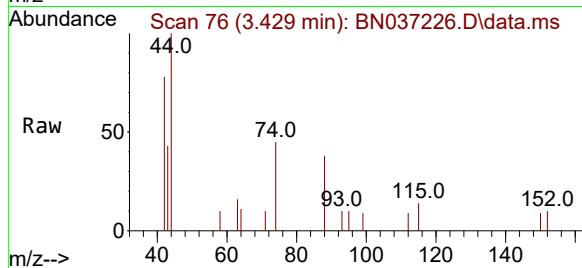




#3  
n-Nitrosodimethylamine  
Concen: 0.217 ng  
RT: 3.429 min Scan# 70  
Delta R.T. 0.007 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

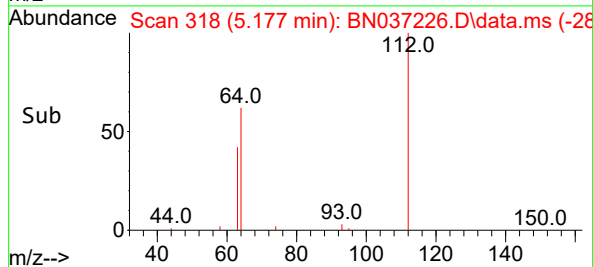
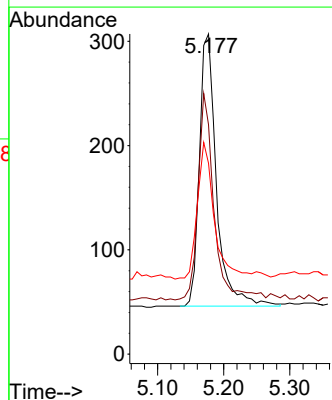
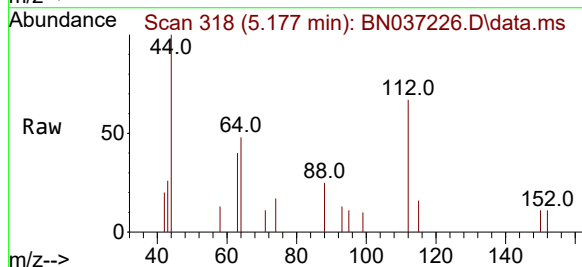
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

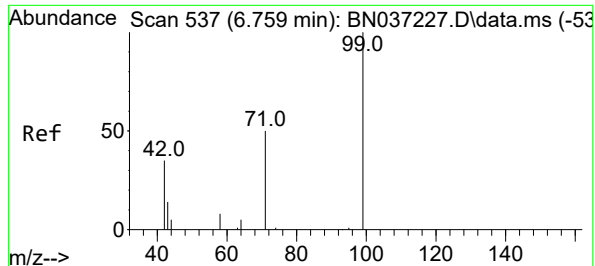
Tgt Ion: 42 Resp: 620  
Ion Ratio Lower Upper  
42 100  
74 58.5 44.6 66.8  
44 0.0 3.5 5.3#



#4  
2-Fluorophenol  
Concen: 0.209 ng  
RT: 5.177 min Scan# 318  
Delta R.T. 0.007 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

Tgt Ion: 112 Resp: 469  
Ion Ratio Lower Upper  
112 100  
64 71.4 57.2 85.8  
63 49.9 39.8 59.6

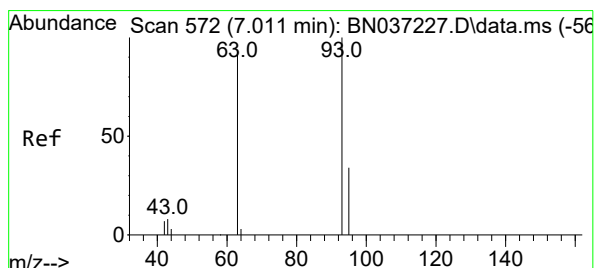
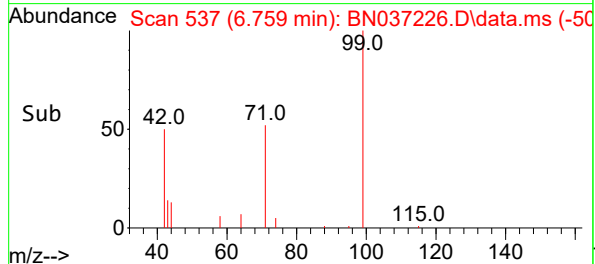
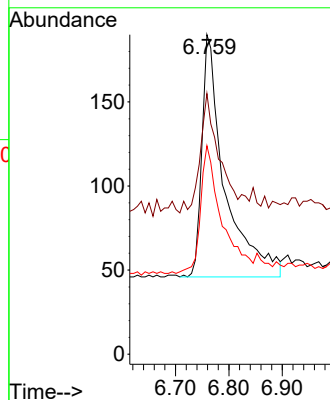
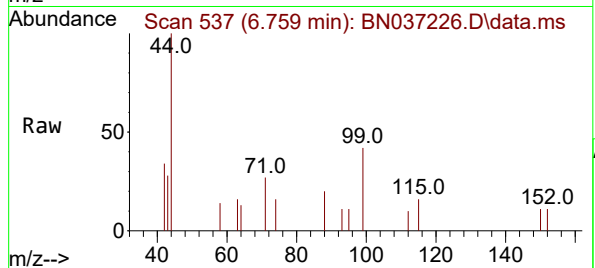




#5  
Phenol-d6  
Concen: 0.181 ng  
RT: 6.759 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

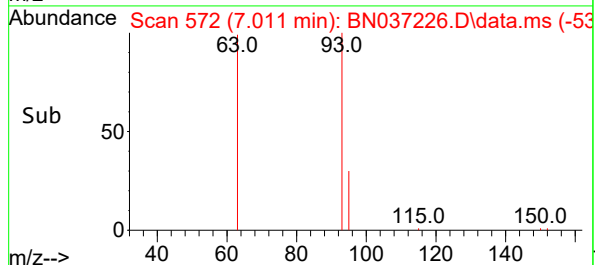
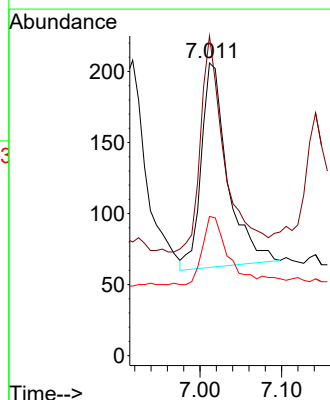
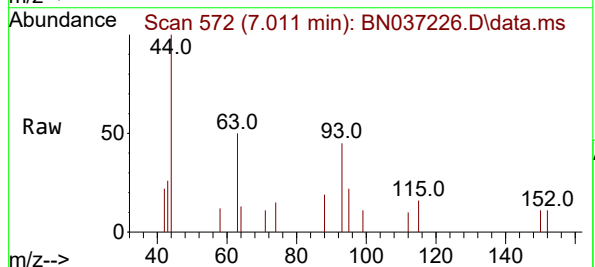
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

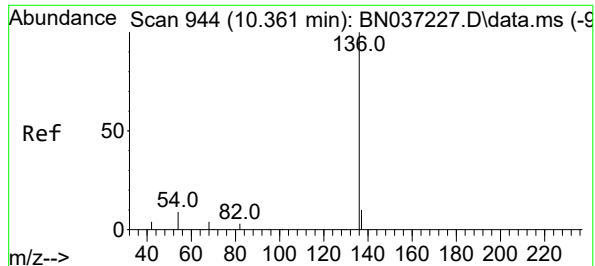
Tgt Ion: 99 Resp: 428  
Ion Ratio Lower Upper  
99 100  
42 42.8 36.2 54.4  
71 48.6 42.4 63.6



#6  
bis(2-Chloroethyl)ether  
Concen: 0.153 ng  
RT: 7.011 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

Tgt Ion: 93 Resp: 324  
Ion Ratio Lower Upper  
93 100  
63 98.1 75.2 112.8  
95 31.5 28.3 42.5

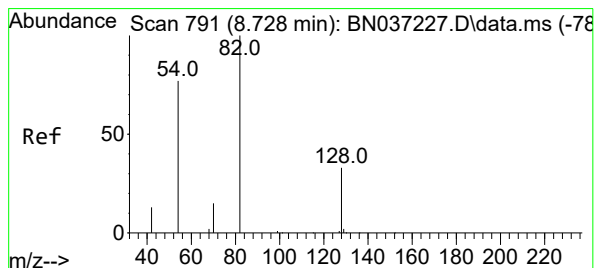
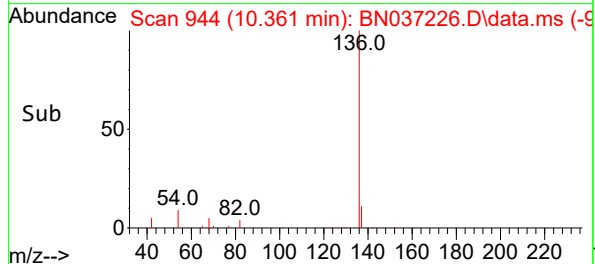
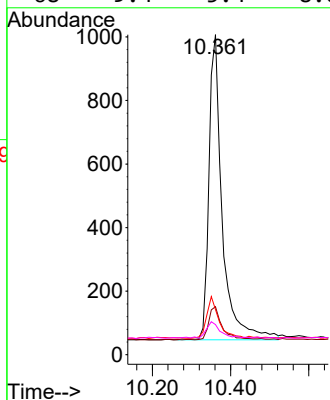
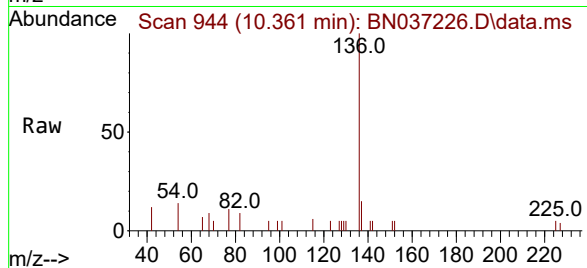




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.361 min Scan# 944  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

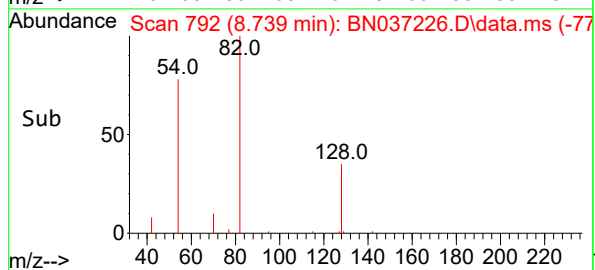
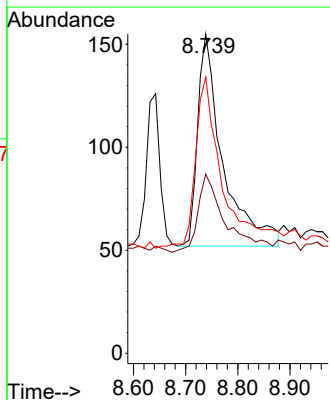
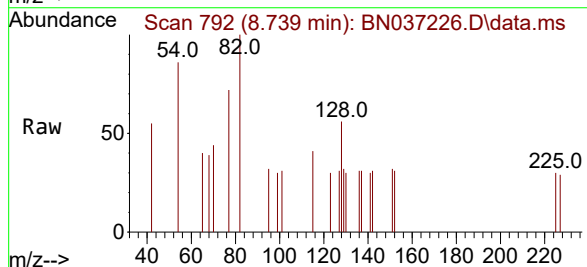
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

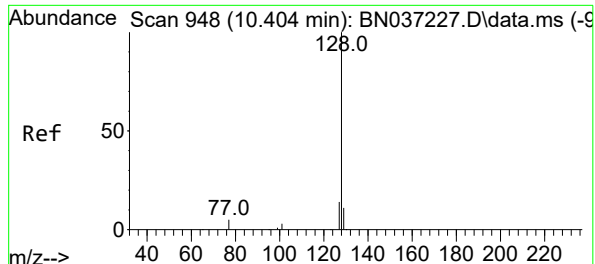
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 2268  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 15.0  | 10.6  | 15.8  |
| 54       | 14.1  | 9.2   | 13.8# |
| 68       | 9.4   | 5.4   | 8.0#  |



#8  
Nitrobenzene-d5  
Concen: 0.154 ng  
RT: 8.739 min Scan# 792  
Delta R.T. 0.011 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 345   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 56.1  | 31.2  | 46.8# |
| 54       | 86.5  | 63.3  | 94.9  |





#9

Naphthalene

Concen: 0.199 ng

RT: 10.404 min Scan# 948

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

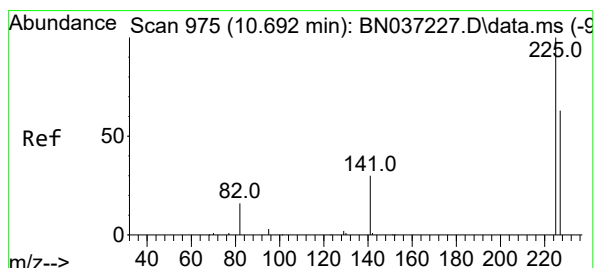
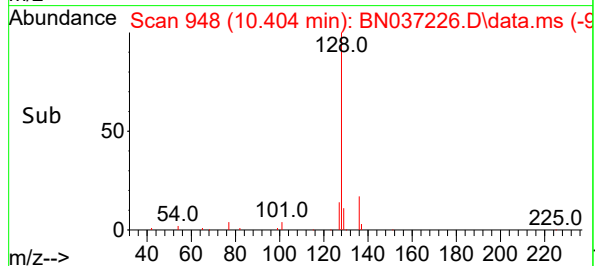
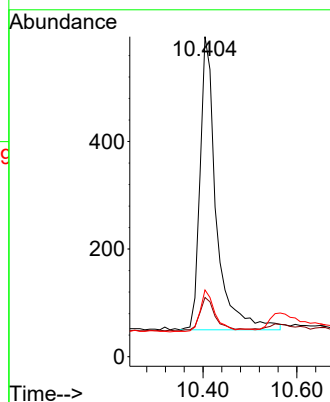
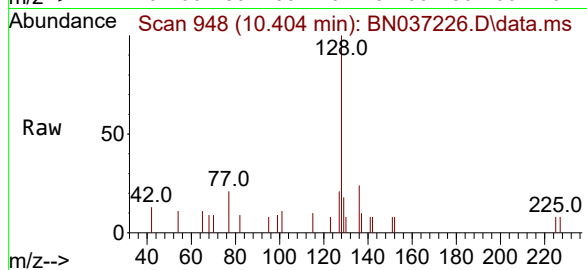
Tgt Ion:128 Resp: 1307

Ion Ratio Lower Upper

128 100

129 18.5 10.7 16.1#

127 20.8 12.6 19.0#



#10

Hexachlorobutadiene

Concen: 0.206 ng

RT: 10.692 min Scan# 975

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

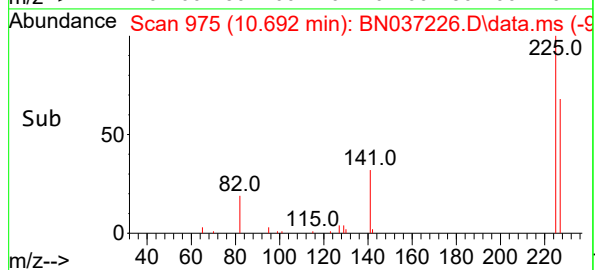
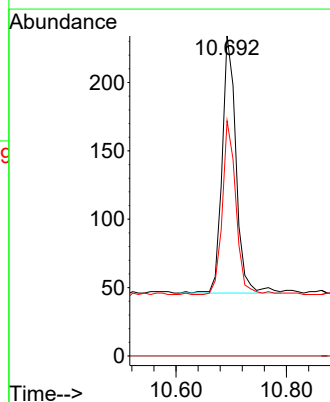
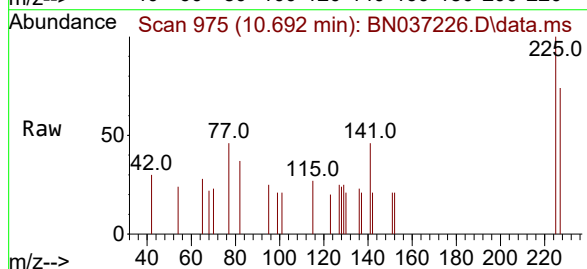
Tgt Ion:225 Resp: 329

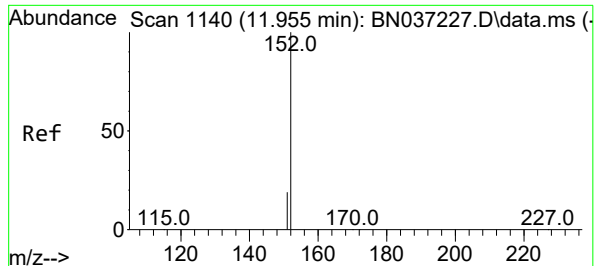
Ion Ratio Lower Upper

225 100

223 0.0 0.0 0.0

227 66.3 49.2 73.8

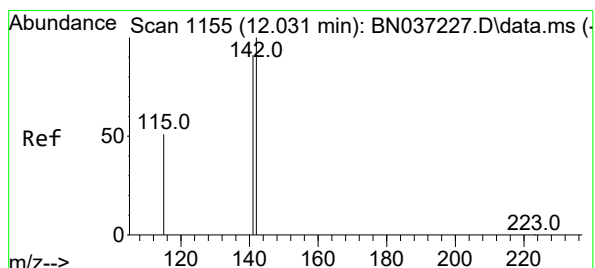
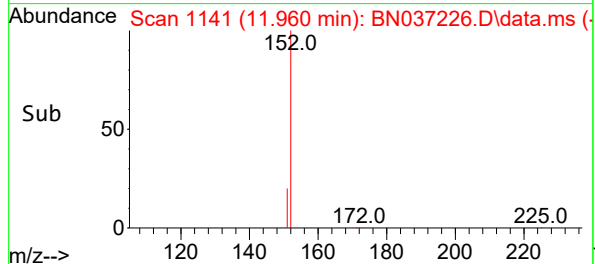
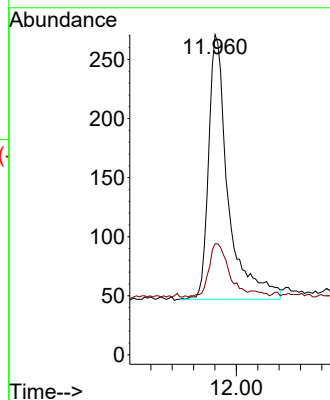
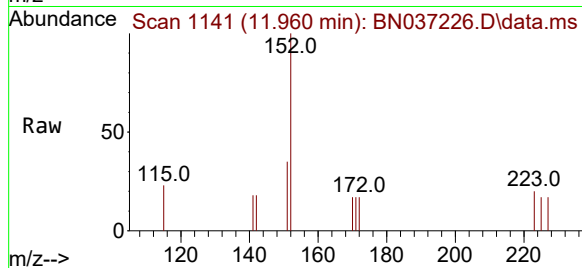




#11  
2-Methylnaphthalene-d10  
Concen: 0.188 ng  
RT: 11.960 min Scan# 1141  
Delta R.T. 0.005 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

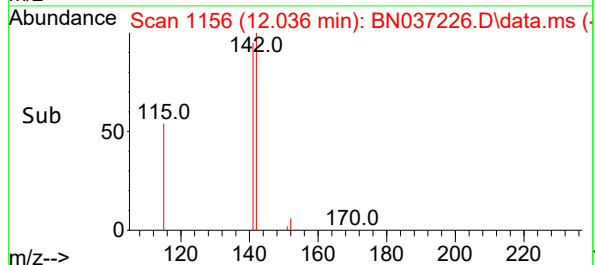
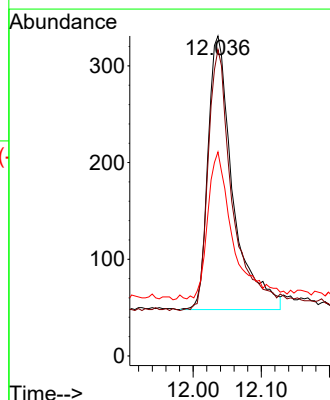
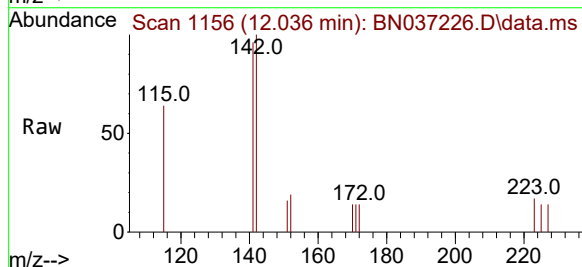
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

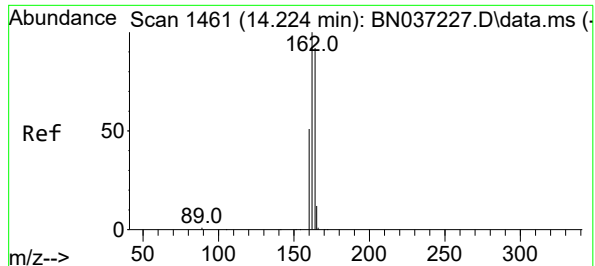
Tgt Ion:152 Resp: 571  
Ion Ratio Lower Upper  
152 100  
151 20.5 17.9 26.9



#12  
2-Methylnaphthalene  
Concen: 0.180 ng  
RT: 12.036 min Scan# 1156  
Delta R.T. 0.005 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

Tgt Ion:142 Resp: 719  
Ion Ratio Lower Upper  
142 100  
141 95.8 73.0 109.6  
115 63.7 43.3 64.9

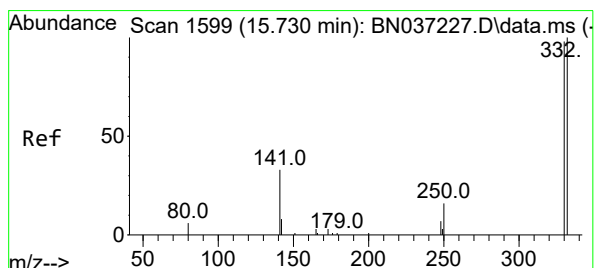
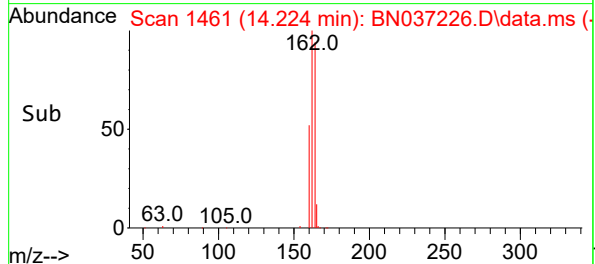
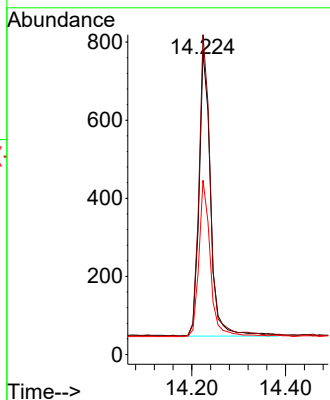
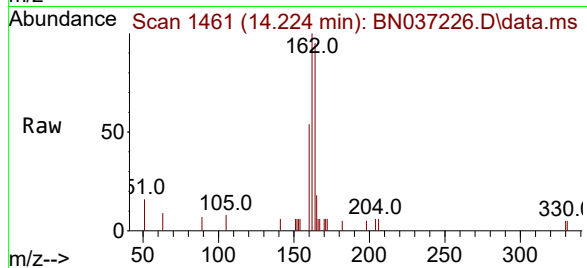




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.224 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

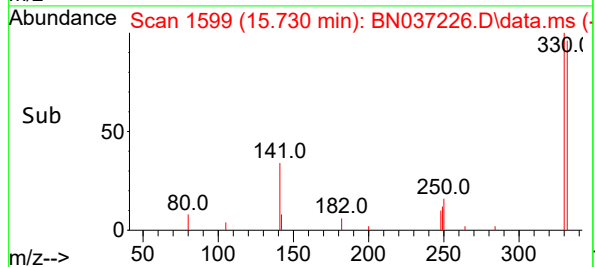
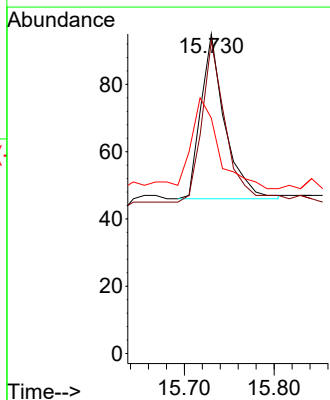
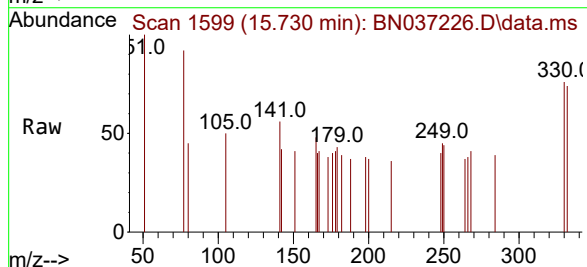
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.2

Tgt Ion:164 Resp: 1246  
Ion Ratio Lower Upper  
164 100  
162 105.5 86.7 130.1  
160 57.5 45.8 68.6

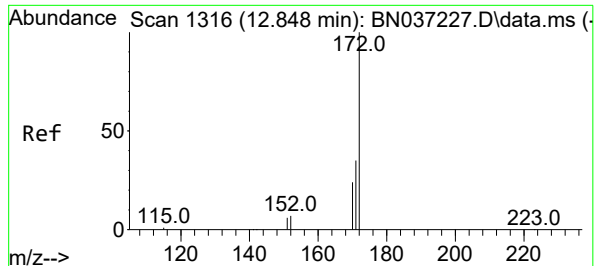


#14  
2,4,6-Tribromophenol  
Concen: 0.176 ng  
RT: 15.730 min Scan# 1599  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

Tgt Ion:330 Resp: 91  
Ion Ratio Lower Upper  
330 100  
332 101.1 74.9 112.3  
141 62.6 45.1 67.7







#15

2-Fluorobiphenyl

Concen: 0.182 ng

RT: 12.853 min Scan# 11

Delta R.T. 0.005 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

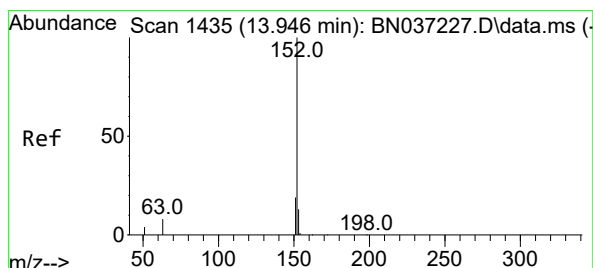
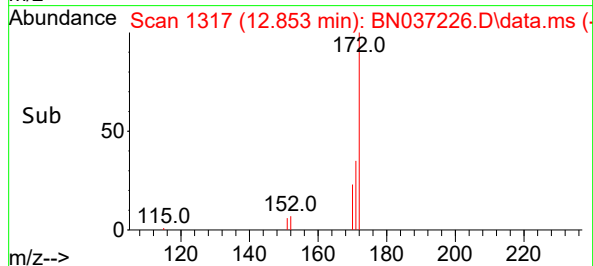
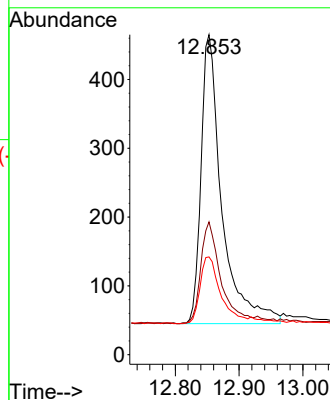
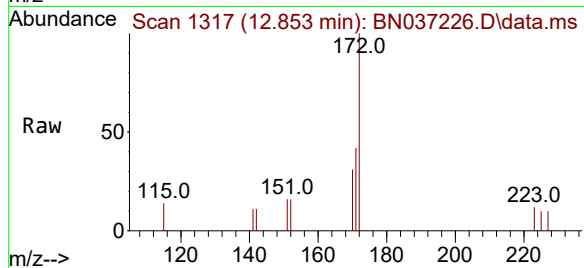
Tgt Ion:172 Resp: 953

Ion Ratio Lower Upper

172 100

171 41.5 29.8 44.8

170 30.5 21.1 31.7



#16

Acenaphthylene

Concen: 0.191 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

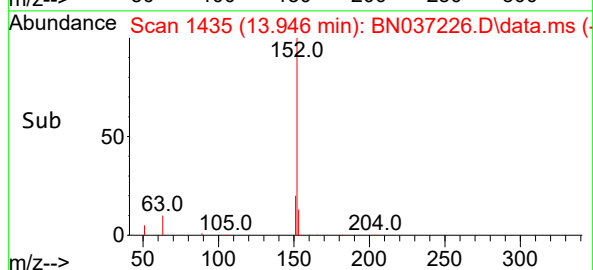
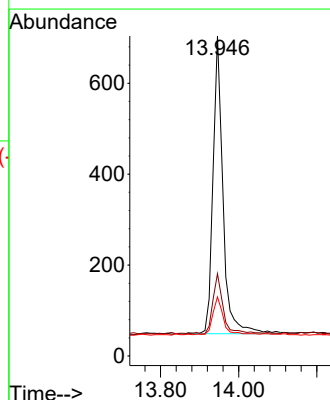
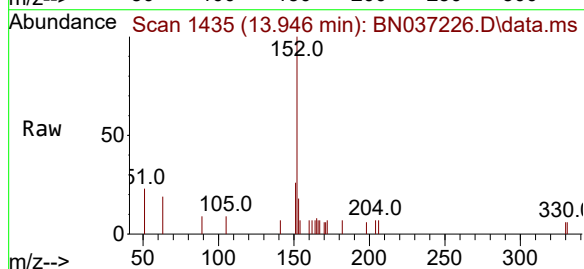
Tgt Ion:152 Resp: 1165

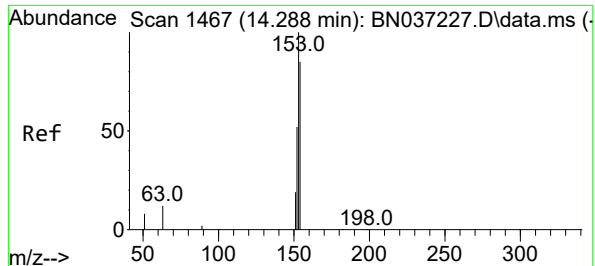
Ion Ratio Lower Upper

152 100

151 20.6 15.7 23.5

153 13.7 10.7 16.1





#17

Acenaphthene

Concen: 0.191 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

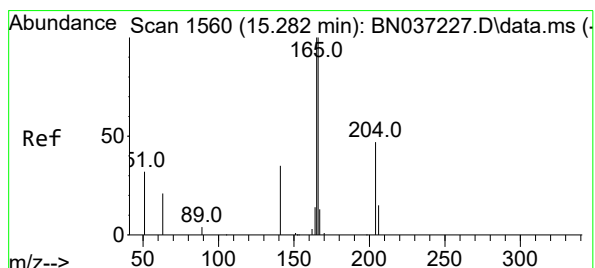
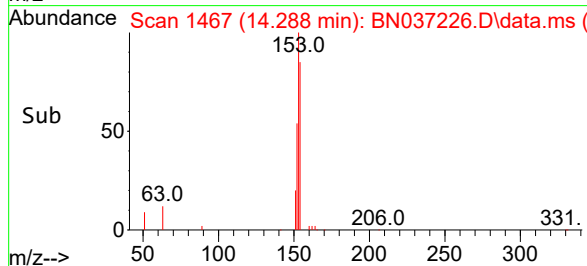
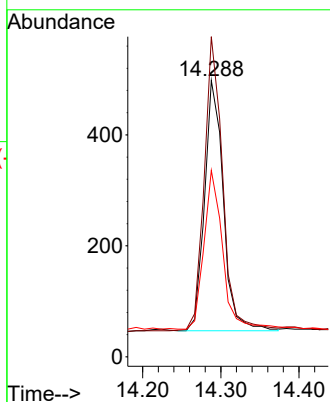
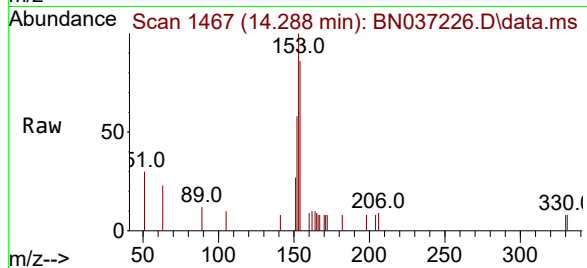
Tgt Ion:154 Resp: 753

Ion Ratio Lower Upper

154 100

153 117.3 94.6 141.8

152 65.2 49.6 74.4



#18

Fluorene

Concen: 0.186 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

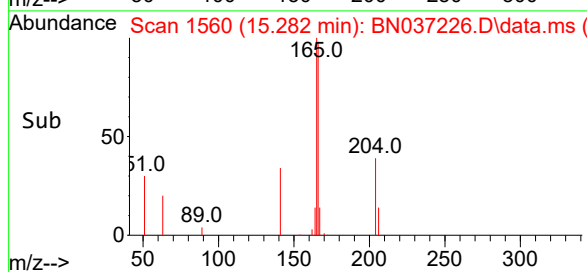
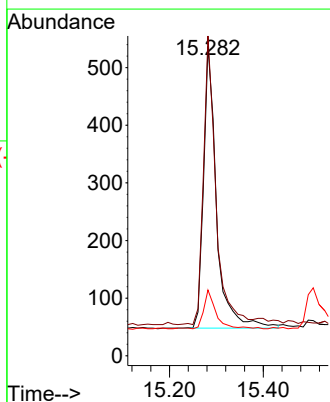
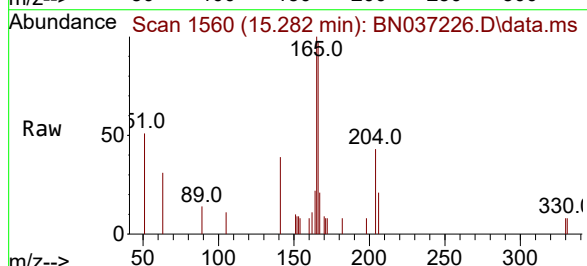
Tgt Ion:166 Resp: 940

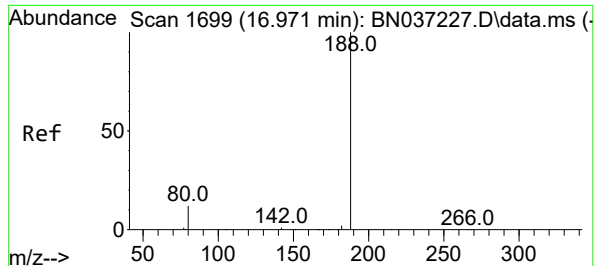
Ion Ratio Lower Upper

166 100

165 97.9 79.8 119.6

167 13.6 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.984 min Scan# 11

Delta R.T. 0.012 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

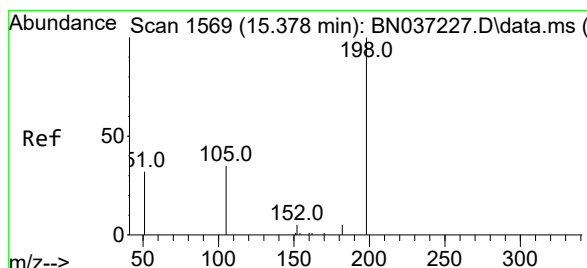
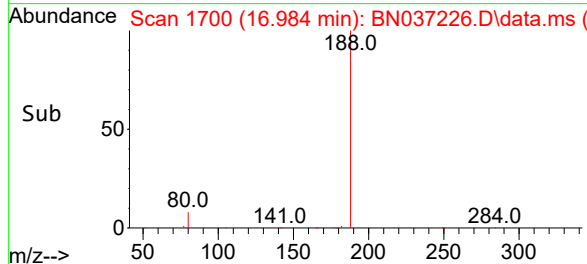
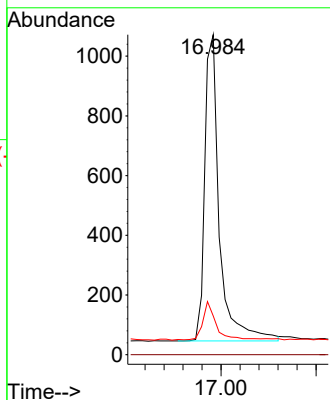
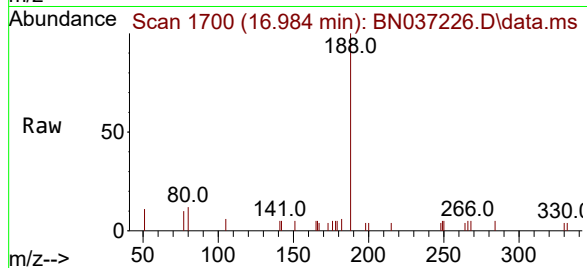
Tgt Ion:188 Resp: 2198

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 12.1 12.2 18.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.257 ng

RT: 15.389 min Scan# 1570

Delta R.T. 0.011 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

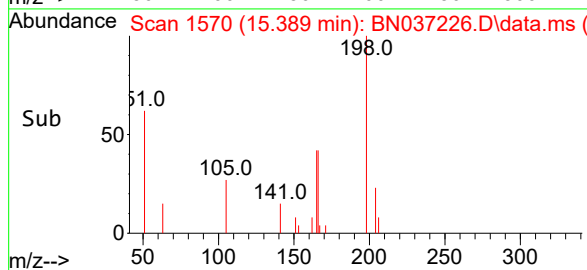
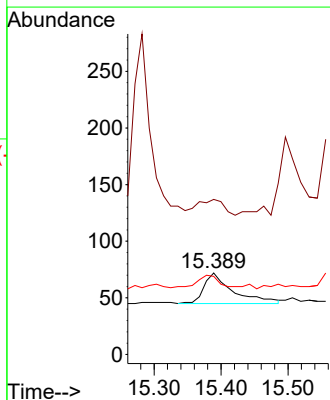
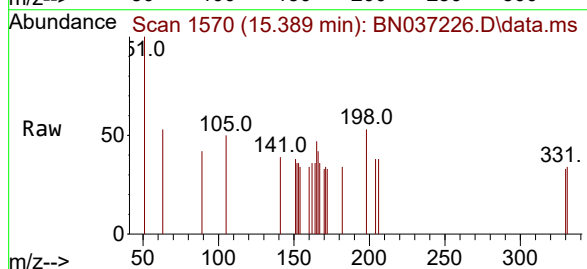
Tgt Ion:198 Resp: 81

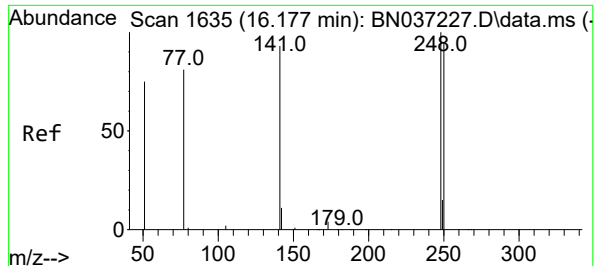
Ion Ratio Lower Upper

198 100

51 190.3 111.2 166.8#

105 95.8 54.0 81.0#

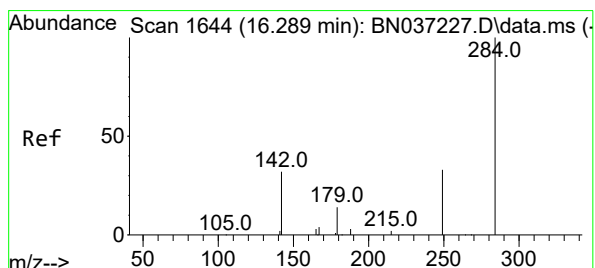
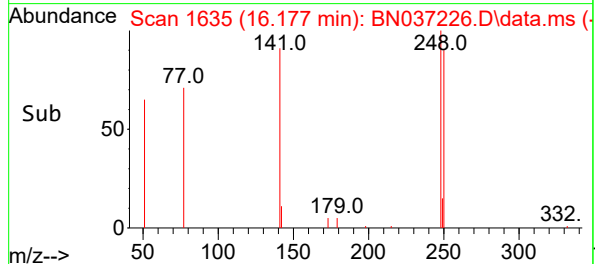
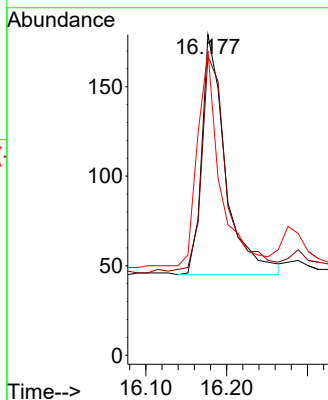
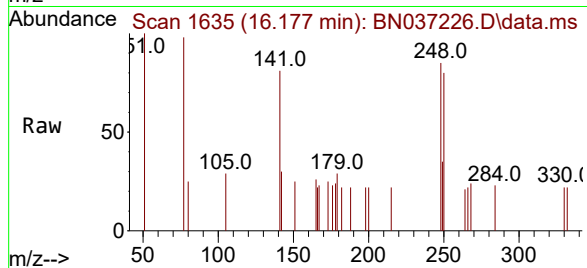




#21  
4-Bromophenyl-phenylether  
Concen: 0.191 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

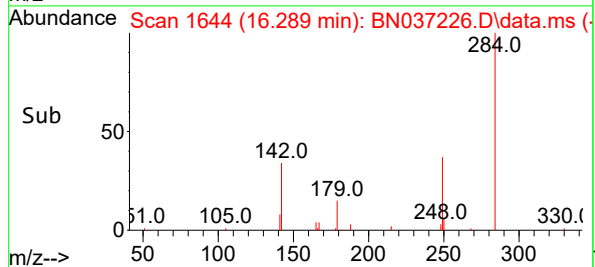
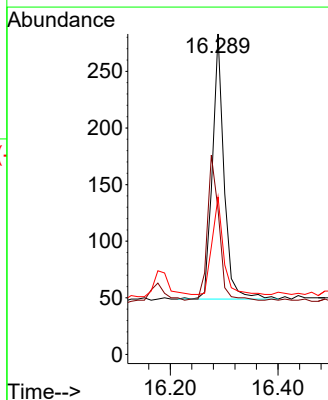
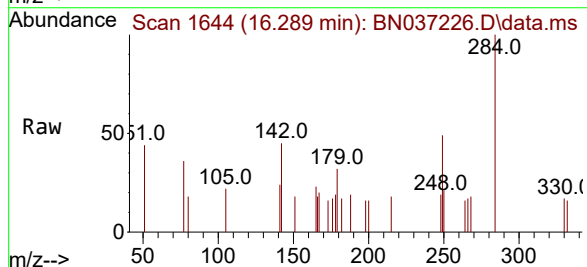
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

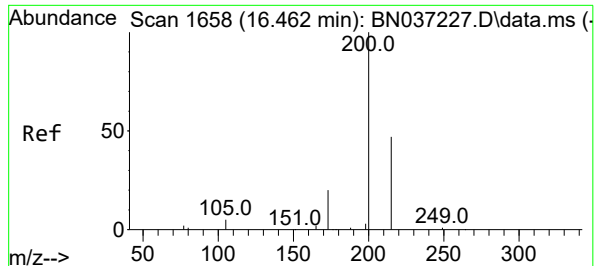
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 93.3  | 76.8  | 115.2 |
| 141     | 95.0  | 75.6  | 113.4 |



#22  
Hexachlorobenzene  
Concen: 0.211 ng  
RT: 16.289 min Scan# 1644  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 55.1  | 43.8  | 65.6  |
| 249     | 36.9  | 28.4  | 42.6  |

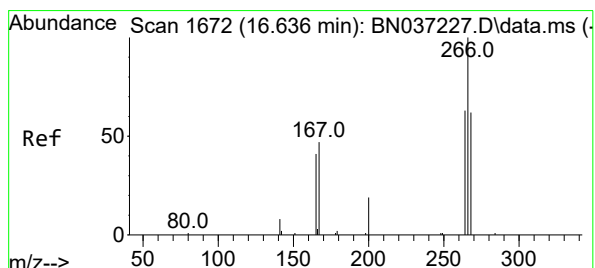
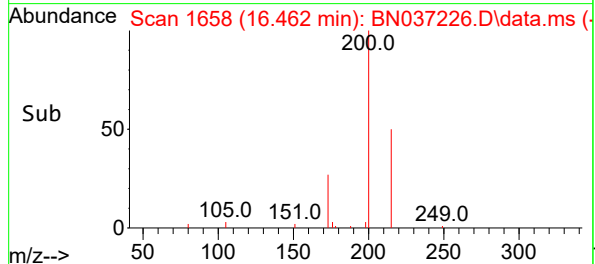
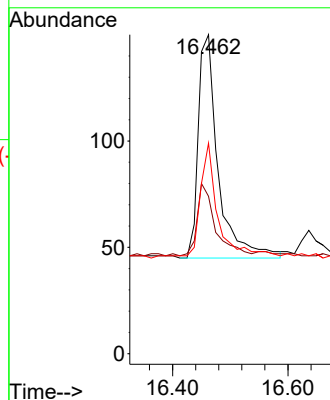
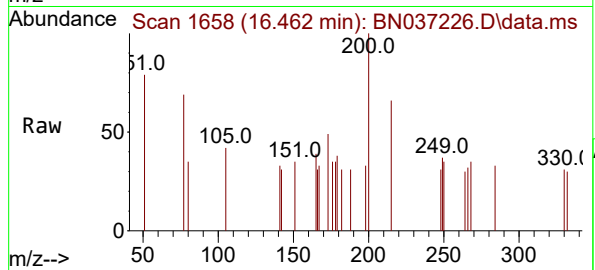




#23  
Atrazine  
Concen: 0.197 ng  
RT: 16.462 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

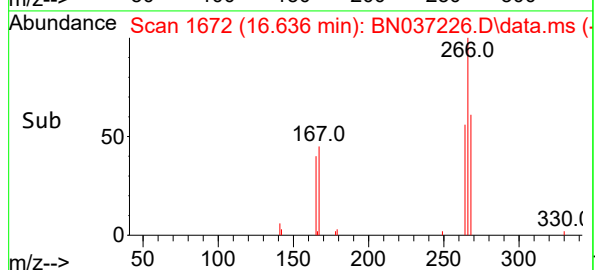
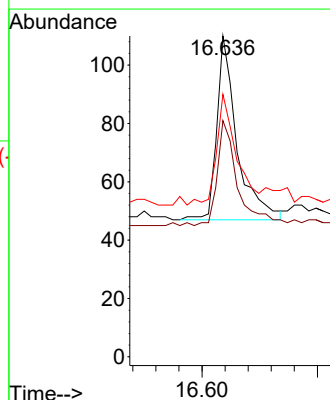
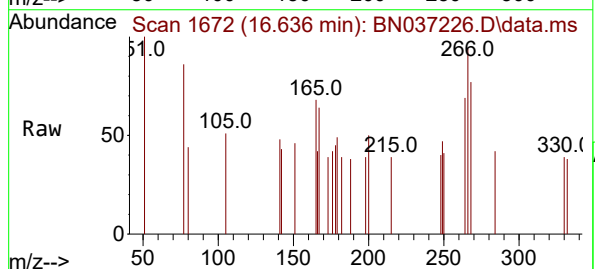
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

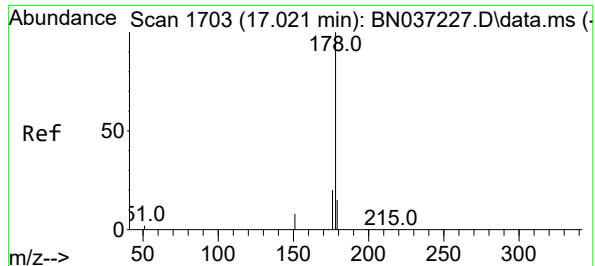
Tgt Ion:200 Resp: 252  
Ion Ratio Lower Upper  
200 100  
173 49.3 25.1 37.7#  
215 66.0 43.7 65.5#



#24  
Pentachlorophenol  
Concen: 0.188 ng  
RT: 16.636 min Scan# 1672  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

Tgt Ion:266 Resp: 153  
Ion Ratio Lower Upper  
266 100  
264 58.2 49.2 73.8  
268 54.2 53.4 80.2

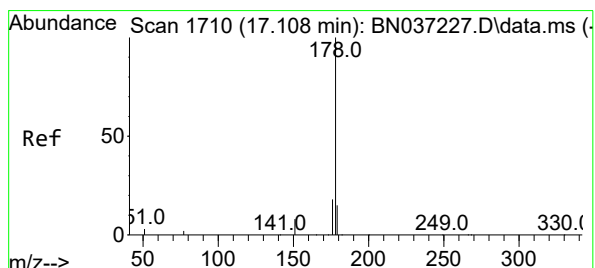
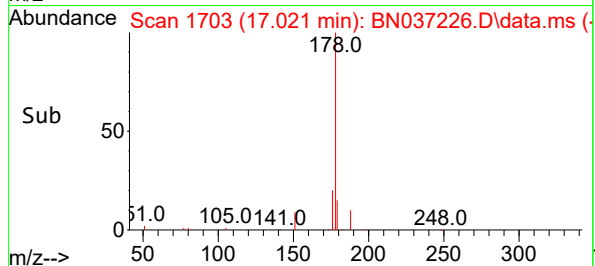
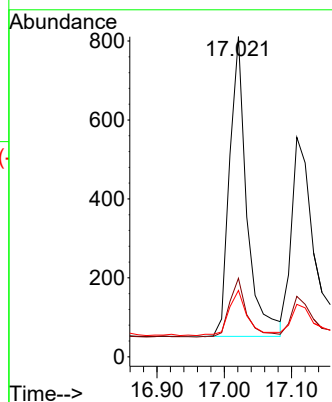
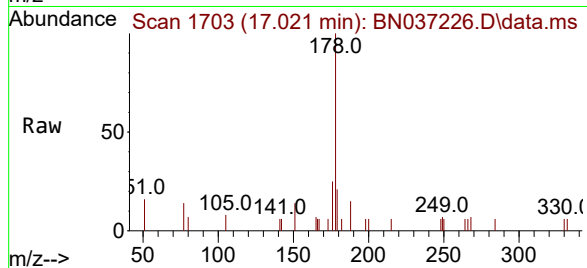




#25  
Phenanthrene  
Concen: 0.193 ng  
RT: 17.021 min Scan# 1703  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

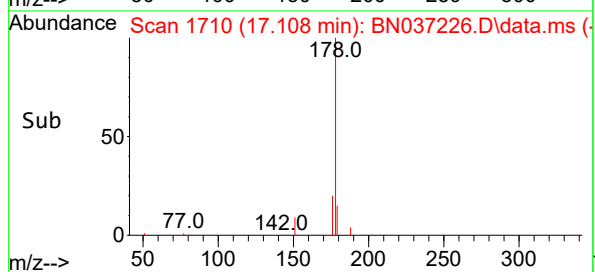
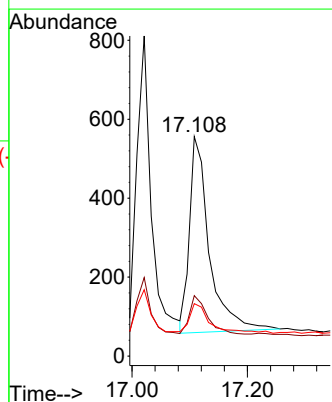
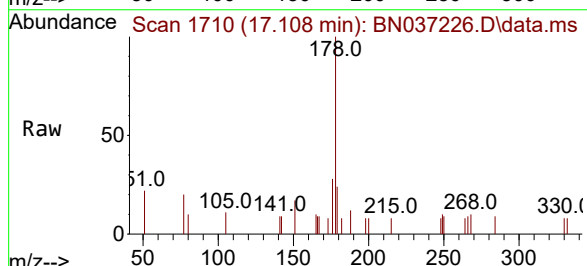
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

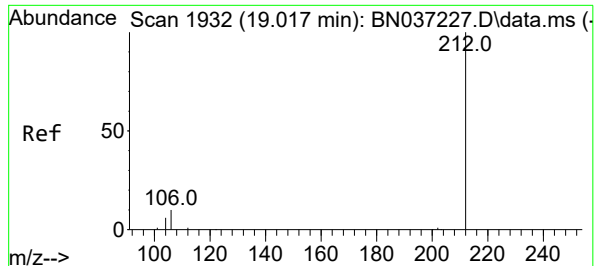
Tgt Ion:178 Resp: 1346  
Ion Ratio Lower Upper  
178 100  
176 20.1 16.3 24.5  
179 15.9 12.6 18.8



#26  
Anthracene  
Concen: 0.186 ng  
RT: 17.108 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

Tgt Ion:178 Resp: 1186  
Ion Ratio Lower Upper  
178 100  
176 18.0 15.1 22.7  
179 16.4 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.205 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

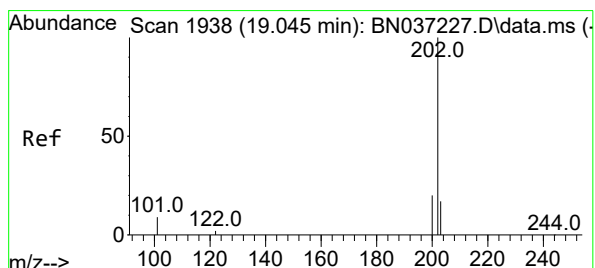
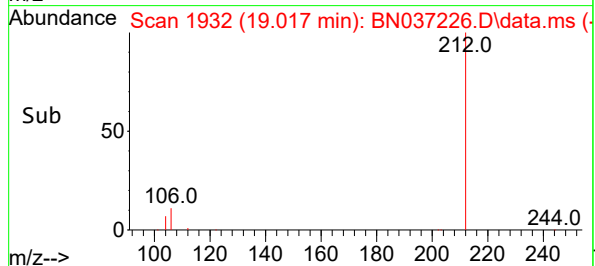
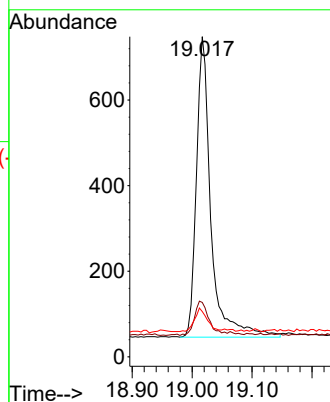
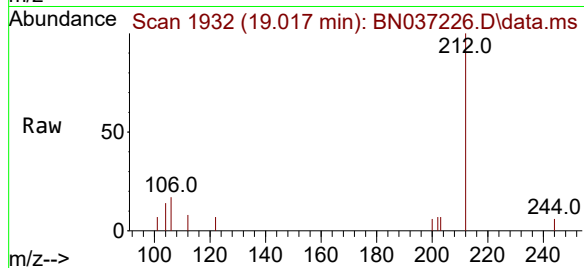
Tgt Ion:212 Resp: 1179

Ion Ratio Lower Upper

212 100

106 11.4 9.3 13.9

104 6.9 5.7 8.5



#28

Fluoranthene

Concen: 0.203 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

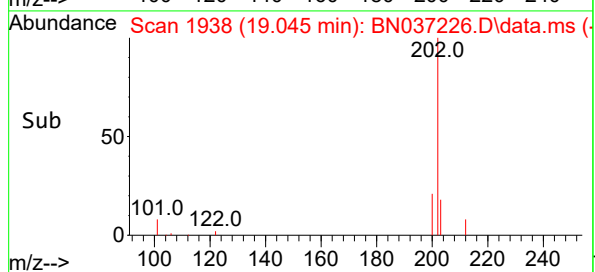
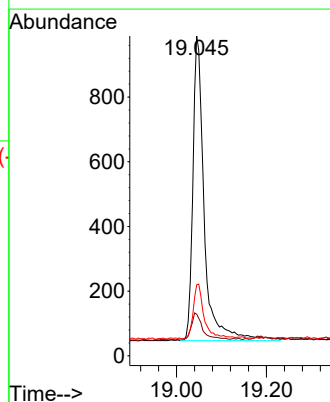
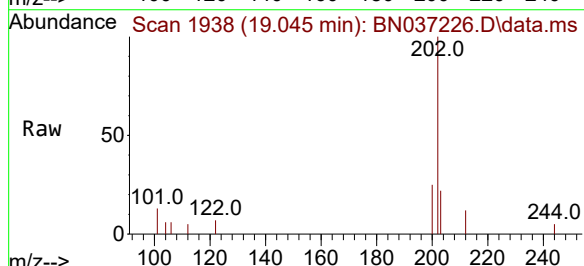
Tgt Ion:202 Resp: 1657

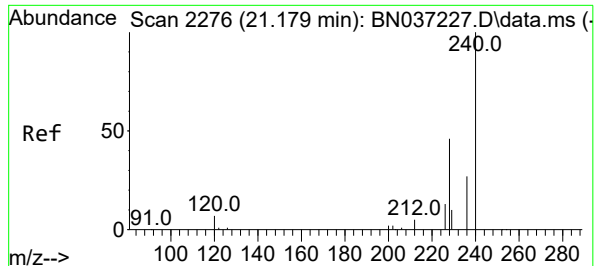
Ion Ratio Lower Upper

202 100

101 9.1 7.1 10.7

203 18.0 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.179 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

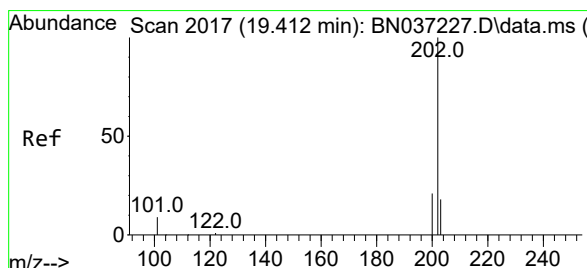
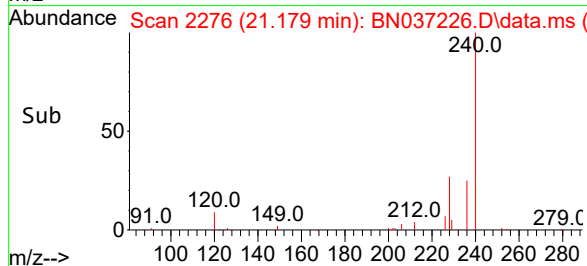
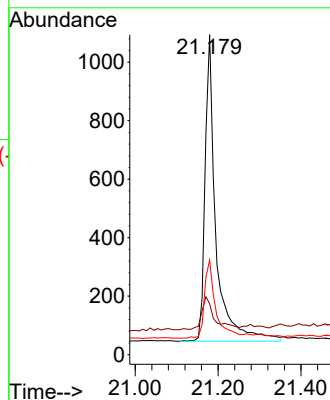
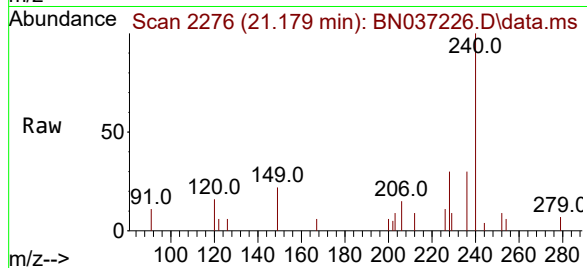
Tgt Ion:240 Resp: 1908

Ion Ratio Lower Upper

240 100

120 15.9 11.3 16.9

236 29.5 24.4 36.6



#30

Pyrene

Concen: 0.185 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

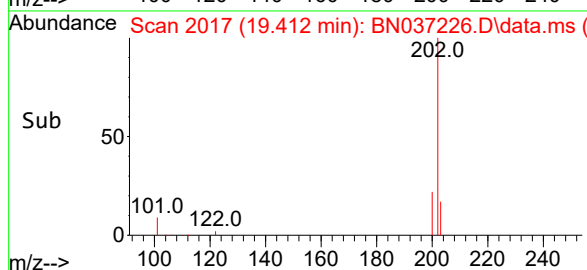
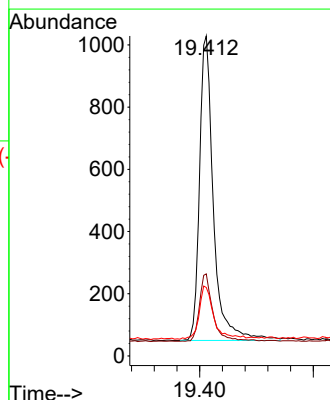
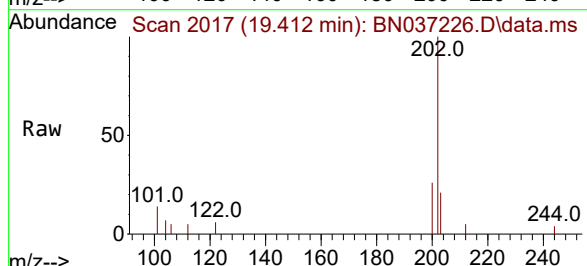
Tgt Ion:202 Resp: 1660

Ion Ratio Lower Upper

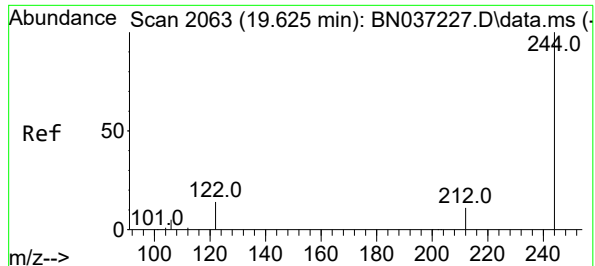
202 100

200 21.2 17.2 25.8

203 18.2 14.3 21.5



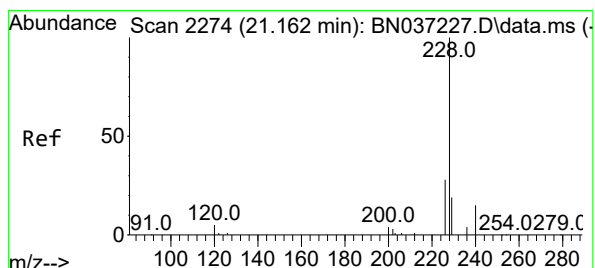
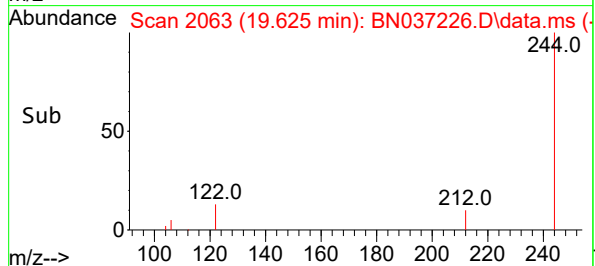
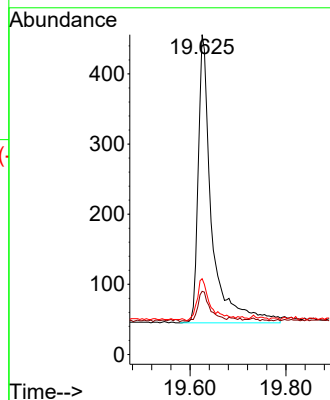
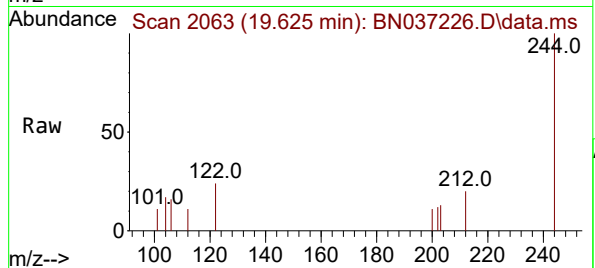




#31  
Terphenyl-d14  
Concen: 0.187 ng  
RT: 19.625 min Scan# 2063  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

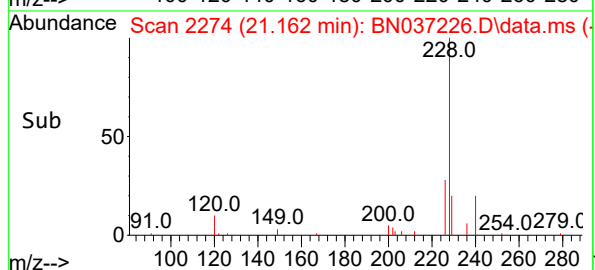
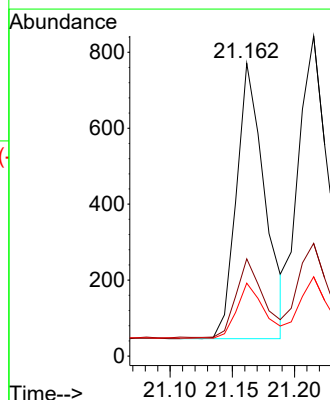
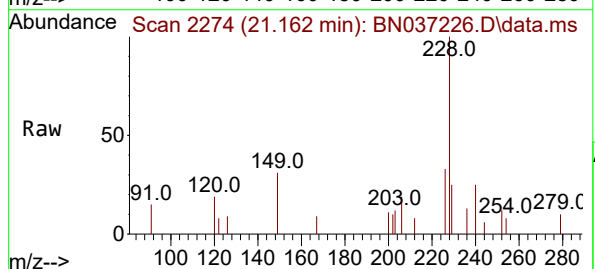
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

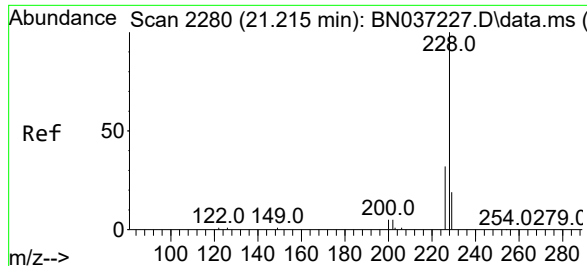
Tgt Ion:244 Resp: 806  
Ion Ratio Lower Upper  
244 100  
212 19.7 12.2 18.2#  
122 23.7 14.3 21.5#



#32  
Benzo(a)anthracene  
Concen: 0.178 ng  
RT: 21.162 min Scan# 2274  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

Tgt Ion:228 Resp: 1149  
Ion Ratio Lower Upper  
228 100  
226 33.2 23.8 35.8  
229 24.9 17.0 25.4





#33

Chrysene

Concen: 0.205 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.2

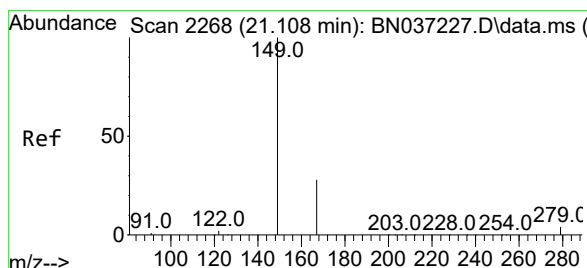
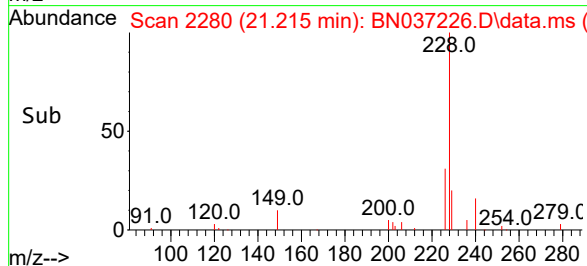
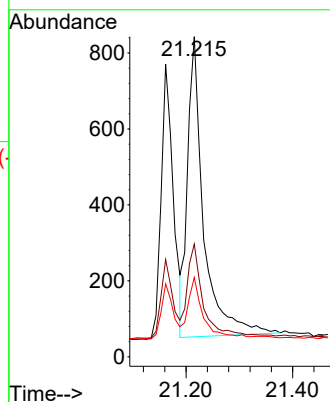
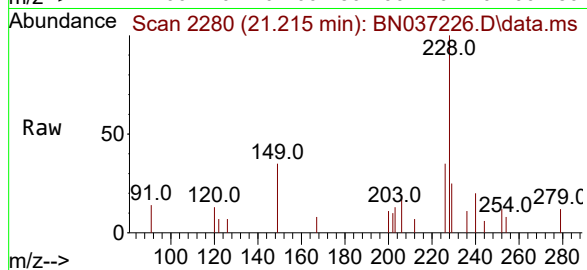
Tgt Ion:228 Resp: 1643

Ion Ratio Lower Upper

228 100

226 35.2 25.8 38.6

229 24.8 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.219 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

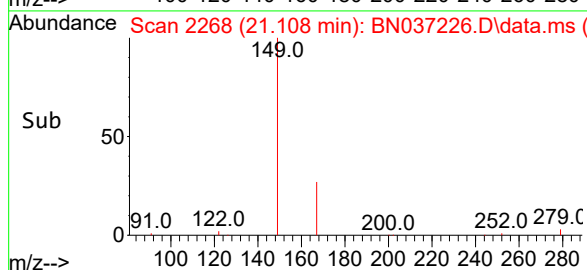
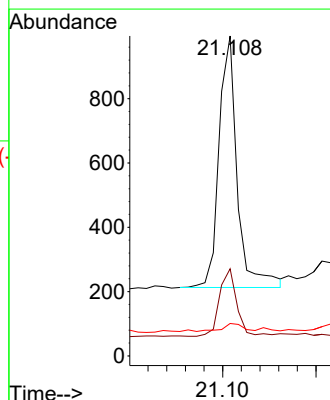
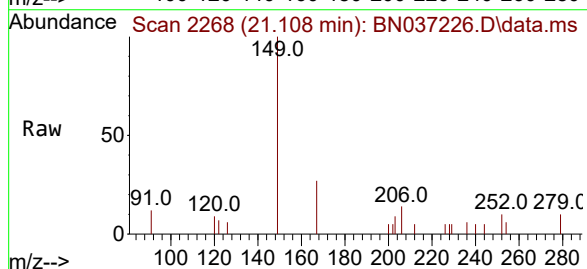
Tgt Ion:149 Resp: 1053

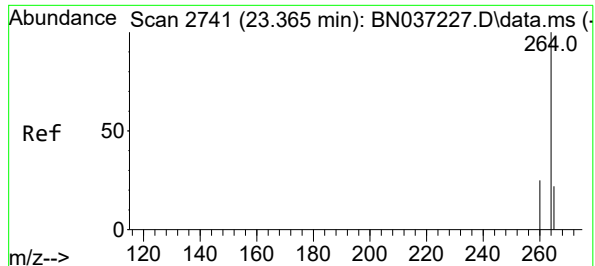
Ion Ratio Lower Upper

149 100

167 25.7 21.3 31.9

279 3.6 3.3 4.9

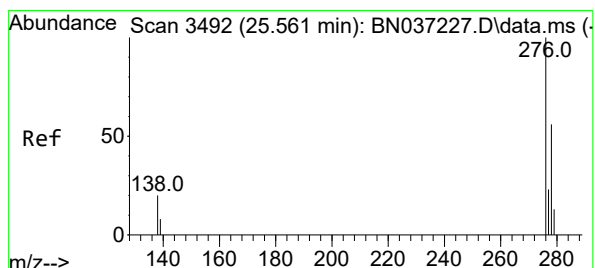
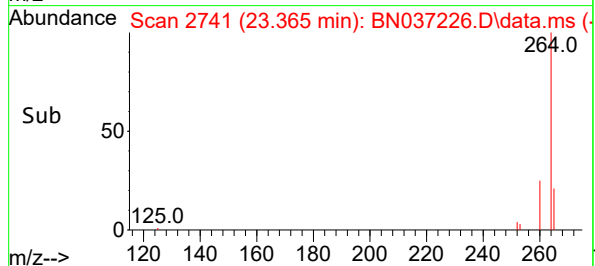
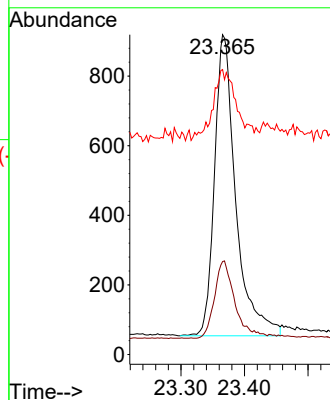
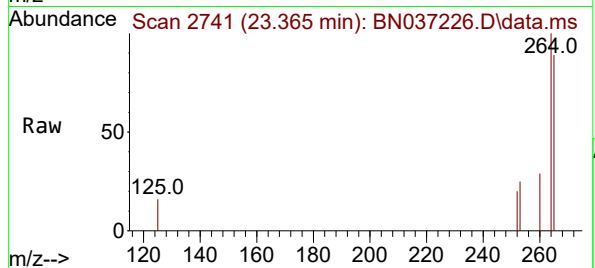




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.365 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

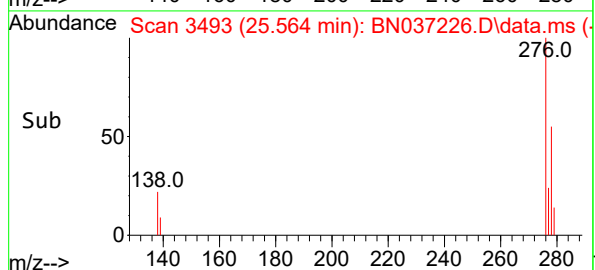
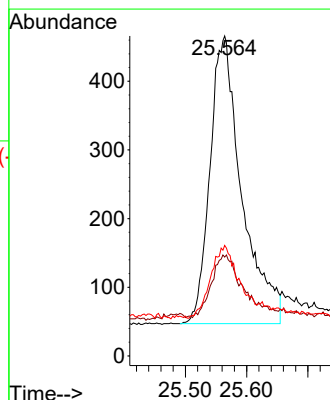
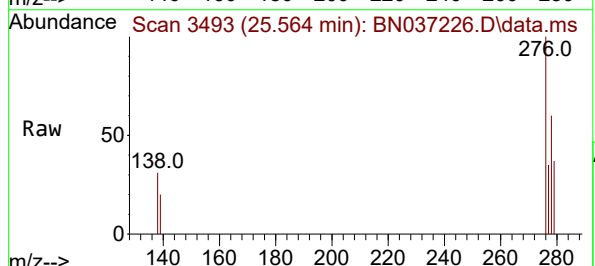
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.2

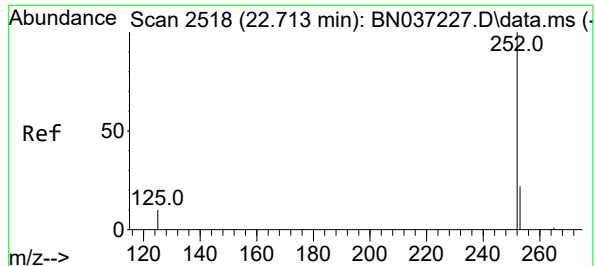
Tgt Ion:264 Resp: 2012  
Ion Ratio Lower Upper  
264 100  
260 29.1 22.8 34.2  
265 89.1 66.4 99.6



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.186 ng  
RT: 25.564 min Scan# 3493  
Delta R.T. 0.003 min  
Lab File: BN037226.D  
Acq: 13 Jun 2025 14:10

Tgt Ion:276 Resp: 1512  
Ion Ratio Lower Upper  
276 100  
138 20.4 16.8 25.2  
277 22.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.176 ng

RT: 22.713 min Scan# 2518

Delta R.T. 0.000 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

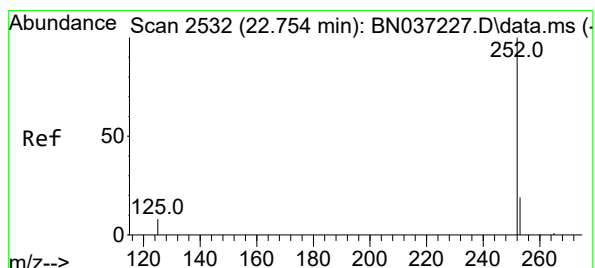
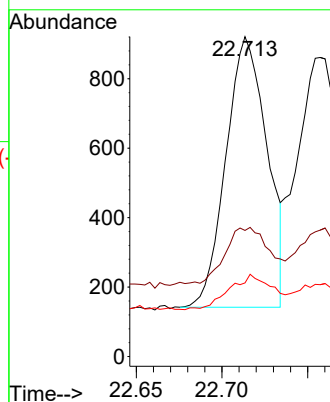
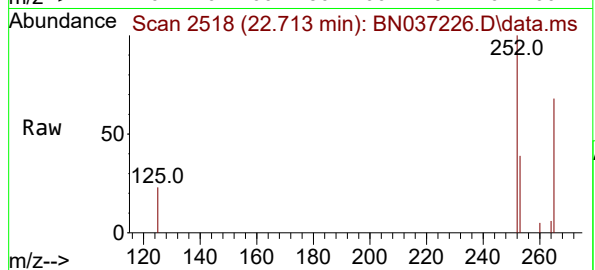
Tgt Ion:252 Resp: 1296

Ion Ratio Lower Upper

252 100

253 39.4 24.9 37.3#

125 23.0 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 0.179 ng

RT: 22.757 min Scan# 2533

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

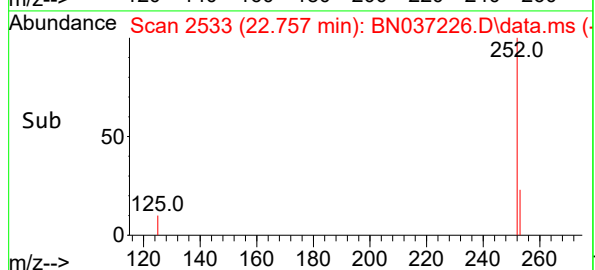
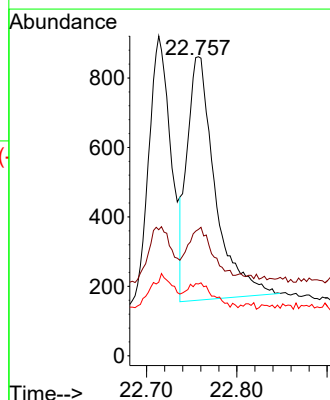
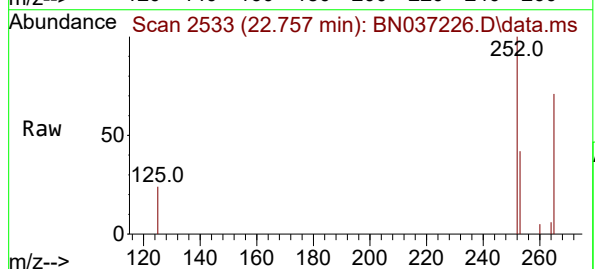
Tgt Ion:252 Resp: 1512

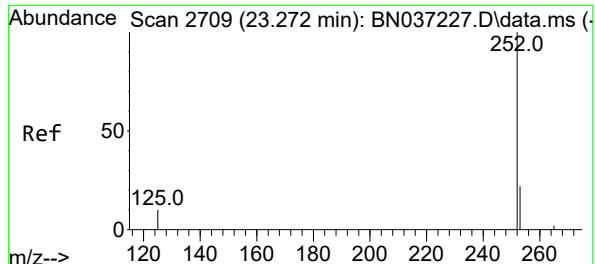
Ion Ratio Lower Upper

252 100

253 42.3 24.6 37.0#

125 24.0 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.184 ng

RT: 23.275 min Scan# 21

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2

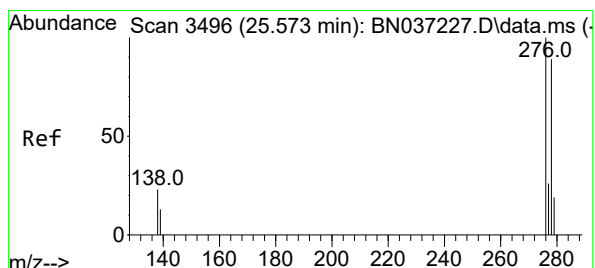
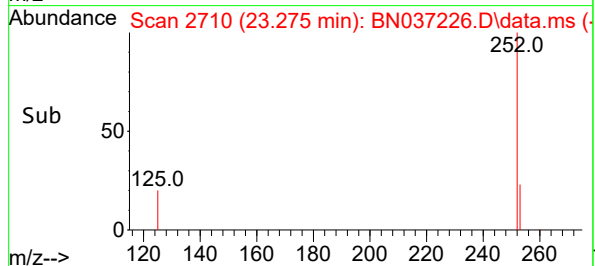
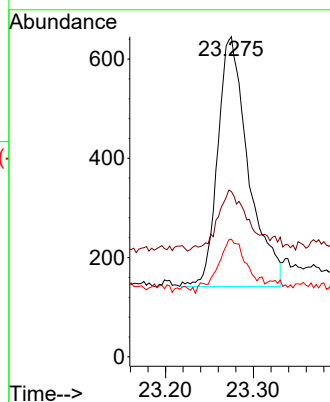
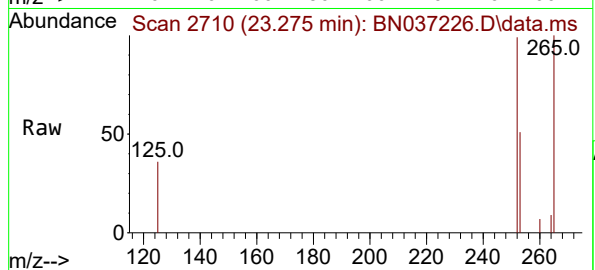
Tgt Ion:252 Resp: 1215

Ion Ratio Lower Upper

252 100

253 51.6 29.4 44.2#

125 36.7 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 0.181 ng

RT: 25.576 min Scan# 3497

Delta R.T. 0.003 min

Lab File: BN037226.D

Acq: 13 Jun 2025 14:10

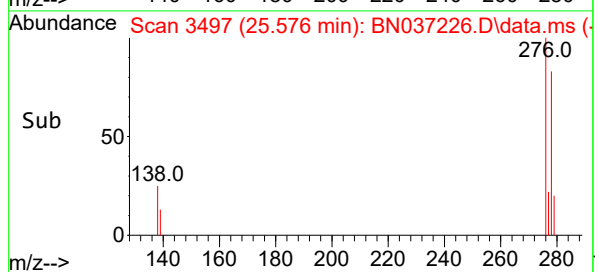
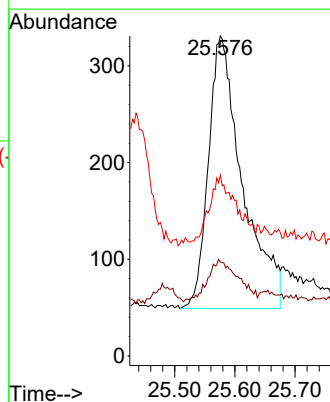
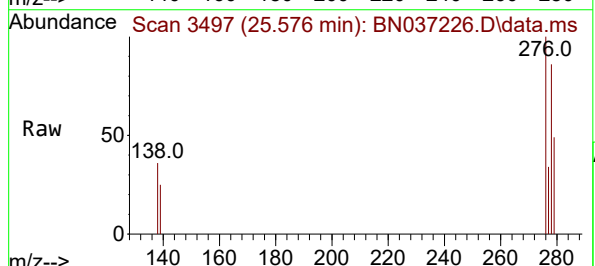
Tgt Ion:278 Resp: 1109

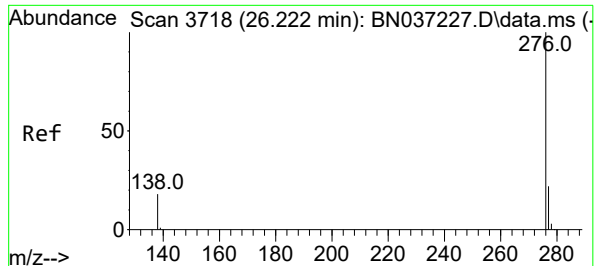
Ion Ratio Lower Upper

278 100

139 29.3 17.8 26.6#

279 56.5 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 0.195 ng

RT: 26.225 min Scan# 31

Delta R.T. 0.003 min

Lab File: BN037226.D

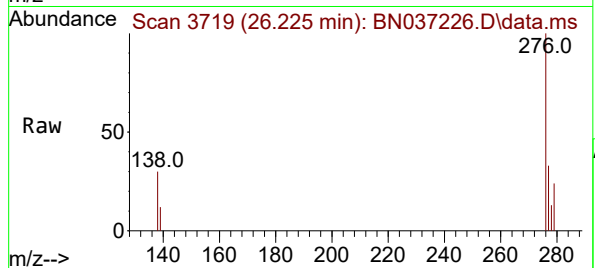
Acq: 13 Jun 2025 14:10

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.2



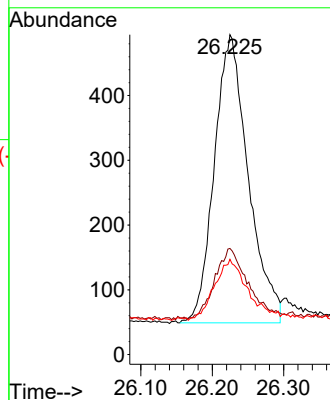
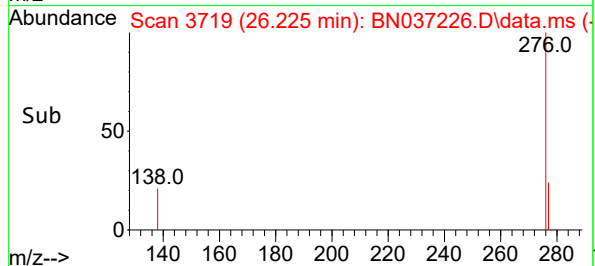
Tgt Ion:276 Resp: 1469

Ion Ratio Lower Upper

276 100

277 33.2 22.0 33.0#

138 29.8 18.4 27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037227.D  
 Acq On : 13 Jun 2025 14:46  
 Operator : RC/JU  
 Sample : SSTDICCC0.4  
 Misc :  
 ALS Vial : 5 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICCC0.4

Quant Time: Jun 13 18:37:14 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:34:15 2025  
 Response via : Initial Calibration

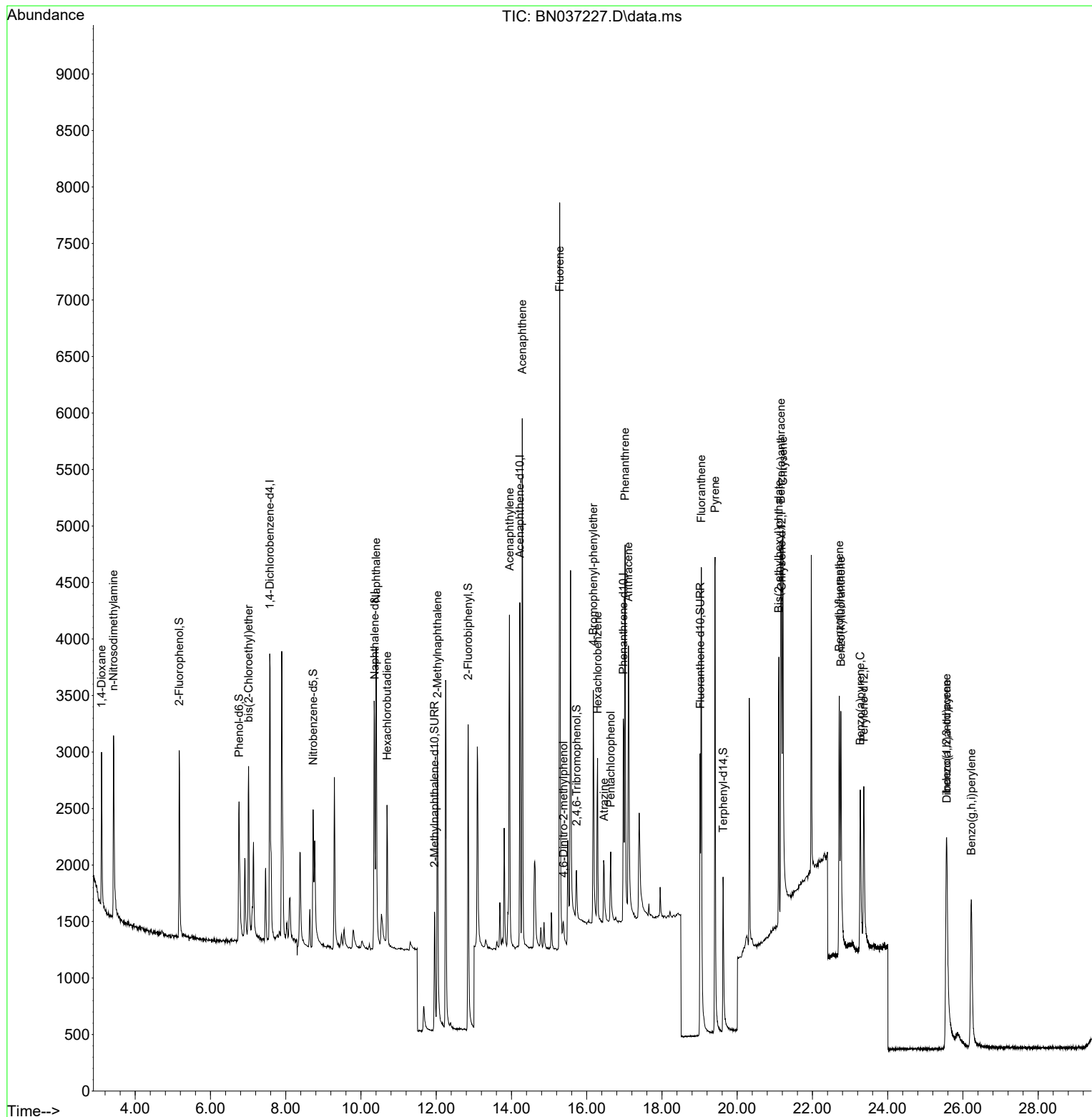
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)   |
|-------------------------------|--------|------|----------|-------|-------|------------|
| Internal Standards            |        |      |          |       |       |            |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1287     | 0.400 | ng    | 0.00       |
| 7) Naphthalene-d8             | 10.361 | 136  | 3210     | 0.400 | ng    | 0.00       |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1738     | 0.400 | ng    | 0.00       |
| 19) Phenanthrene-d10          | 16.971 | 188  | 3195     | 0.400 | ng    | 0.00       |
| 29) Chrysene-d12              | 21.179 | 240  | 2284     | 0.400 | ng    | 0.00       |
| 35) Perylene-d12              | 23.365 | 264  | 2150     | 0.400 | ng    | 0.00       |
| System Monitoring Compounds   |        |      |          |       |       |            |
| 4) 2-Fluorophenol             | 5.170  | 112  | 1212     | 0.383 | ng    | 0.00       |
| 5) Phenol-d6                  | 6.759  | 99   | 1239     | 0.372 | ng    | 0.00       |
| 8) Nitrobenzene-d5            | 8.728  | 82   | 1234     | 0.389 | ng    | 0.00       |
| 11) 2-Methylnaphthalene-d10   | 11.955 | 152  | 1787     | 0.415 | ng    | 0.00       |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 298      | 0.413 | ng    | 0.00       |
| 15) 2-Fluorobiphenyl          | 12.848 | 172  | 2952     | 0.404 | ng    | 0.00       |
| 27) Fluoranthene-d10          | 19.017 | 212  | 3364     | 0.402 | ng    | 0.00       |
| 31) Terphenyl-d14             | 19.625 | 244  | 2160     | 0.418 | ng    | 0.00       |
| Target Compounds              |        |      |          |       |       |            |
| 2) 1,4-Dioxane                | 3.104  | 88   | 676      | 0.383 | ng    | Qvalue 100 |
| 3) n-Nitrosodimethylamine     | 3.422  | 42   | 1644     | 0.409 | ng    | 100        |
| 6) bis(2-Chloroethyl)ether    | 7.011  | 93   | 1120     | 0.375 | ng    | 100        |
| 9) Naphthalene                | 10.404 | 128  | 3636     | 0.391 | ng    | 100        |
| 10) Hexachlorobutadiene       | 10.692 | 225  | 968      | 0.428 | ng    | # 100      |
| 12) 2-Methylnaphthalene       | 12.031 | 142  | 2261     | 0.400 | ng    | 100        |
| 16) Acenaphthylene            | 13.946 | 152  | 3250     | 0.382 | ng    | 100        |
| 17) Acenaphthene              | 14.288 | 154  | 2155     | 0.392 | ng    | 100        |
| 18) Fluorene                  | 15.282 | 166  | 2768     | 0.392 | ng    | 100        |
| 20) 4,6-Dinitro-2-methylph... | 15.378 | 198  | 211      | 0.368 | ng    | 100        |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 780      | 0.375 | ng    | 100        |
| 22) Hexachlorobenzene         | 16.289 | 284  | 994      | 0.412 | ng    | 100        |
| 23) Atrazine                  | 16.462 | 200  | 710      | 0.382 | ng    | 100        |
| 24) Pentachlorophenol         | 16.636 | 266  | 397      | 0.336 | ng    | 100        |
| 25) Phenanthrene              | 17.021 | 178  | 3790     | 0.374 | ng    | 100        |
| 26) Anthracene                | 17.108 | 178  | 3450     | 0.372 | ng    | 100        |
| 28) Fluoranthene              | 19.045 | 202  | 4510     | 0.380 | ng    | 100        |
| 30) Pyrene                    | 19.412 | 202  | 4482     | 0.417 | ng    | 100        |
| 32) Benzo(a)anthracene        | 21.162 | 228  | 2798     | 0.363 | ng    | 100        |
| 33) Chrysene                  | 21.215 | 228  | 3871     | 0.403 | ng    | 100        |
| 34) Bis(2-ethylhexyl)phtha... | 21.108 | 149  | 2338     | 0.407 | ng    | 100        |
| 36) Indeno(1,2,3-cd)pyrene    | 25.561 | 276  | 3239     | 0.374 | ng    | 100        |
| 37) Benzo(b)fluoranthene      | 22.713 | 252  | 2958     | 0.376 | ng    | 100        |
| 38) Benzo(k)fluoranthene      | 22.754 | 252  | 3501     | 0.388 | ng    | 100        |
| 39) Benzo(a)pyrene            | 23.272 | 252  | 2653     | 0.375 | ng    | 100        |
| 40) Dibenzo(a,h)anthracene    | 25.573 | 278  | 2256     | 0.345 | ng    | 100        |
| 41) Benzo(g,h,i)perylene      | 26.222 | 276  | 3099     | 0.385 | ng    | 100        |

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

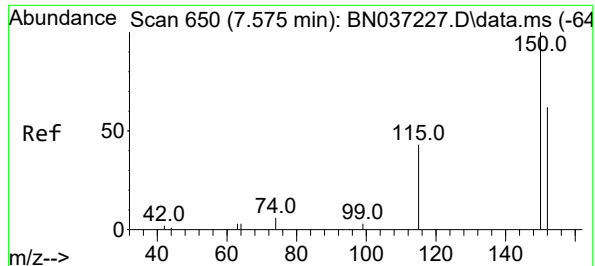
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Acq On : 13 Jun 2025 14:46  
Operator : RC/JU  
Sample : SSTDICCC0.4  
Misc :  
ALS Vial : 5 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

Quant Time: Jun 13 18:37:14 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:34:15 2025  
Response via : Initial Calibration



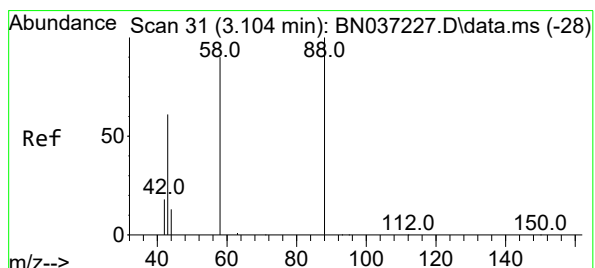
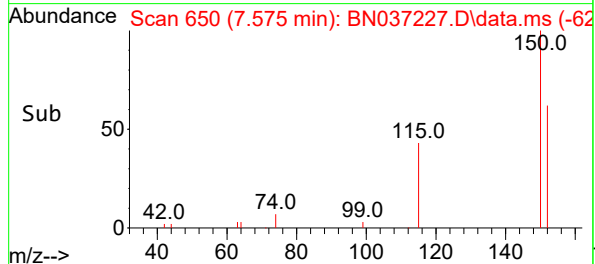
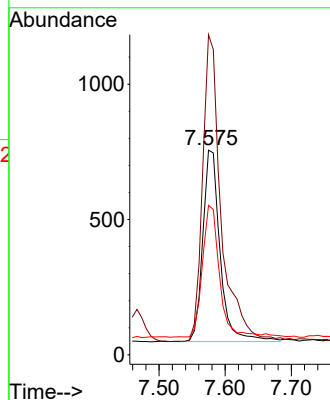
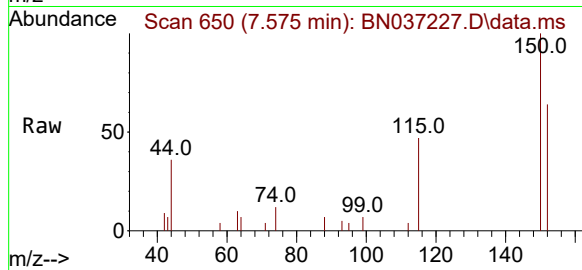




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

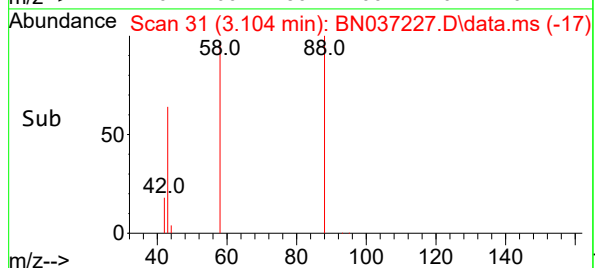
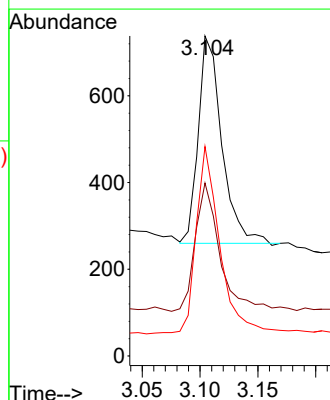
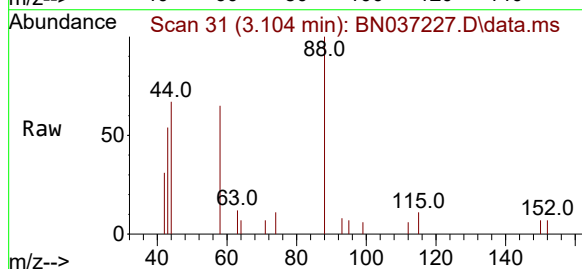
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

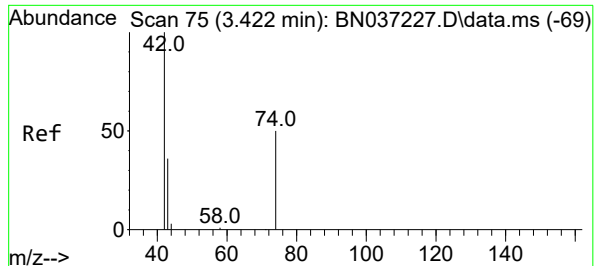
Tgt Ion:152 Resp: 1287  
Ion Ratio Lower Upper  
152 100  
150 156.5 125.2 187.8  
115 73.0 58.4 87.6



#2  
1,4-Dioxane  
Concen: 0.383 ng  
RT: 3.104 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

Tgt Ion: 88 Resp: 676  
Ion Ratio Lower Upper  
88 100  
43 65.8 52.6 79.0  
58 91.9 73.5 110.3

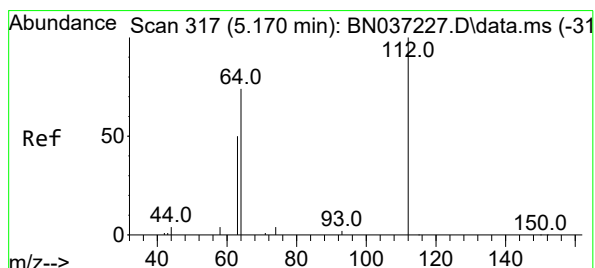
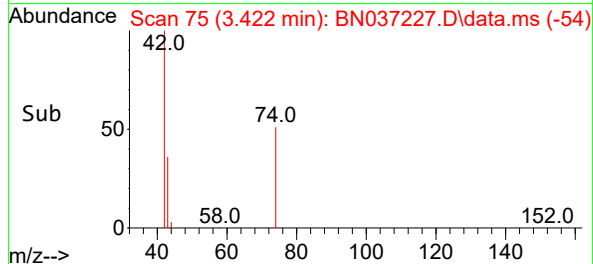
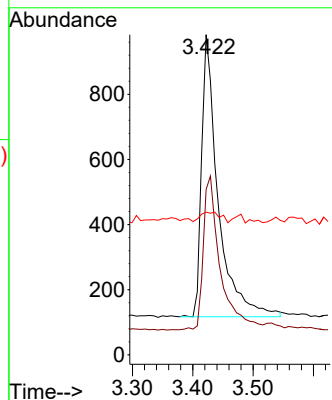
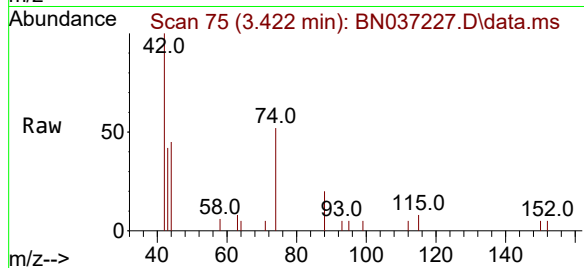




#3  
n-Nitrosodimethylamine  
Concen: 0.409 ng  
RT: 3.422 min Scan# 75  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

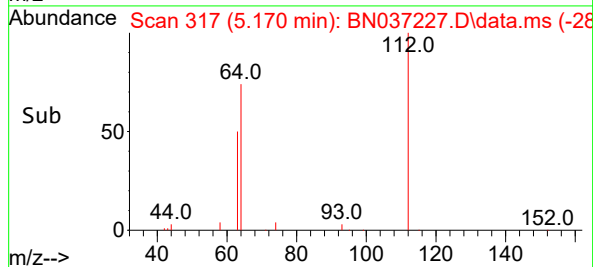
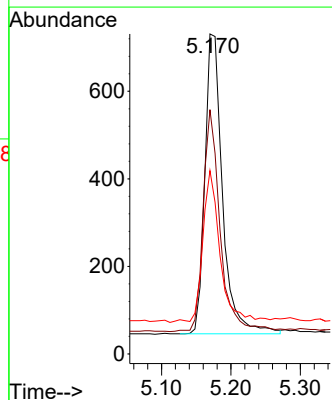
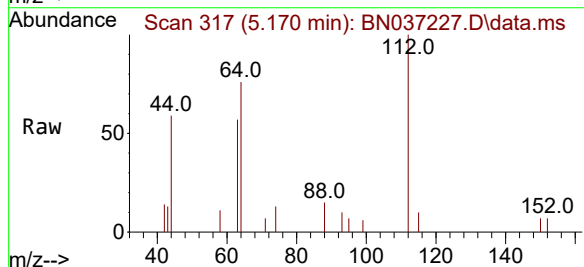
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BNA\_N  
ClientSampleId :  
SSTDICCC0.4

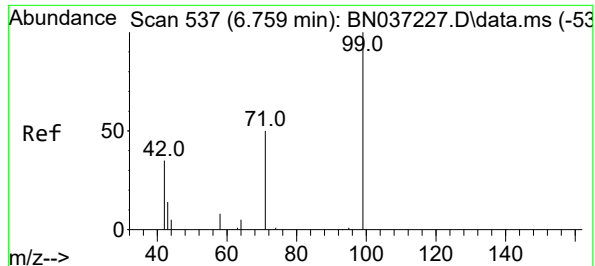
Tgt Ion: 42 Resp: 1644  
Ion Ratio Lower Upper  
42 100  
74 55.7 44.6 66.8  
44 4.4 3.5 5.3



#4  
2-Fluorophenol  
Concen: 0.383 ng  
RT: 5.170 min Scan# 317  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

Tgt Ion: 112 Resp: 1212  
Ion Ratio Lower Upper  
112 100  
64 71.5 57.2 85.8  
63 49.7 39.8 59.6

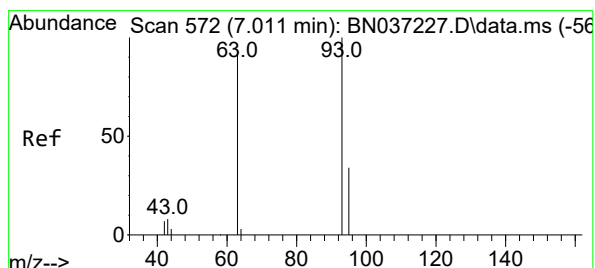
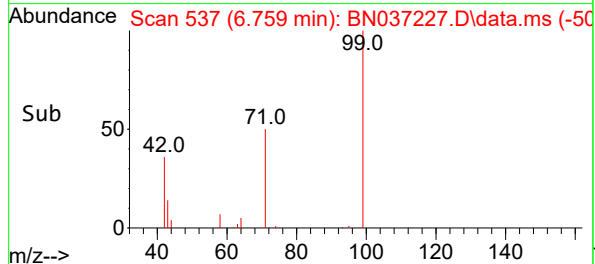
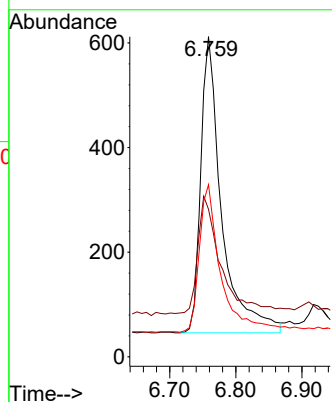
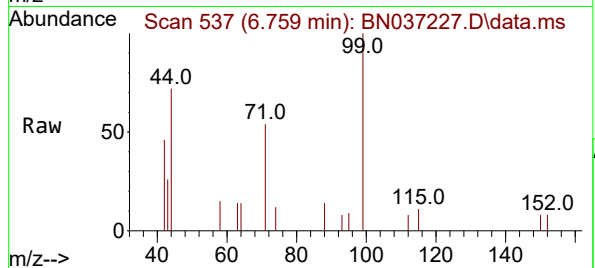




#5  
Phenol-d6  
Concen: 0.372 ng  
RT: 6.759 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

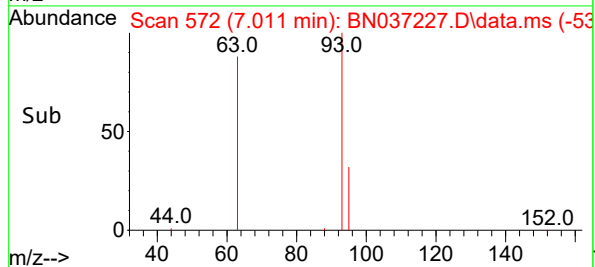
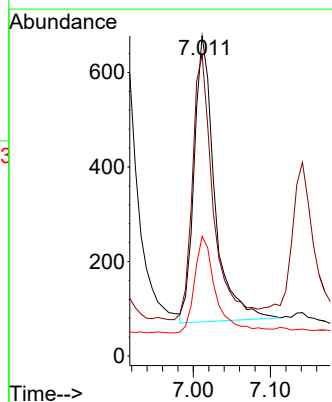
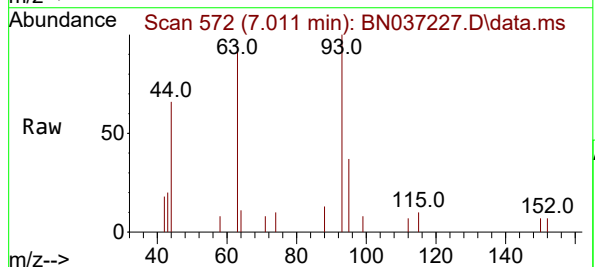
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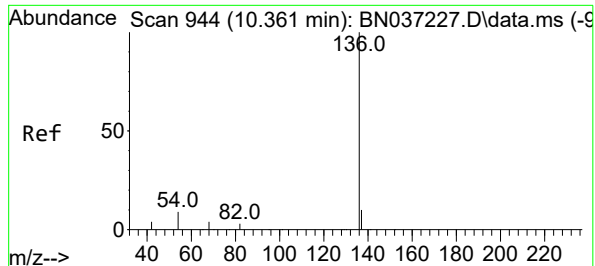
Tgt Ion: 99 Resp: 1239  
Ion Ratio Lower Upper  
99 100  
42 45.3 36.2 54.4  
71 53.0 42.4 63.6



#6  
bis(2-Chloroethyl)ether  
Concen: 0.375 ng  
RT: 7.011 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

Tgt Ion: 93 Resp: 1120  
Ion Ratio Lower Upper  
93 100  
63 94.0 75.2 112.8  
95 35.4 28.3 42.5

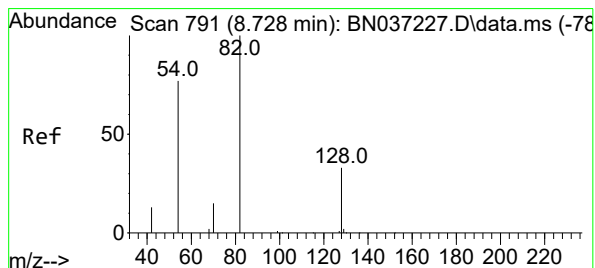
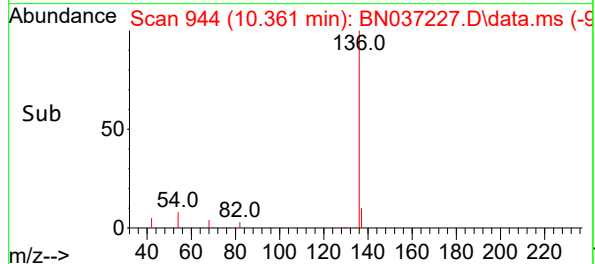
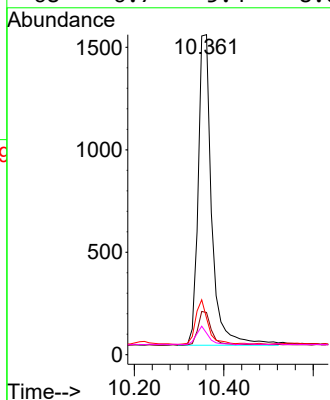
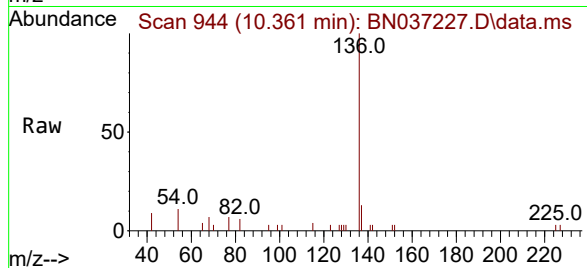




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.361 min Scan# 944  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

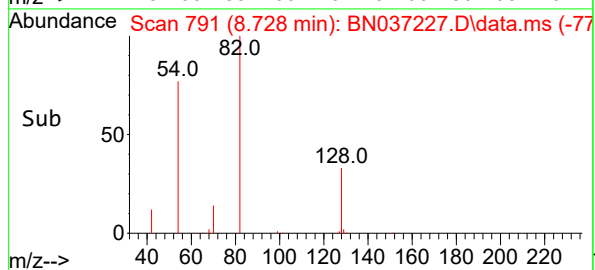
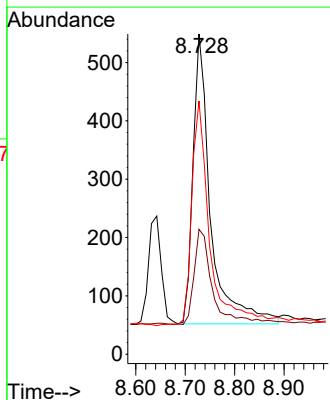
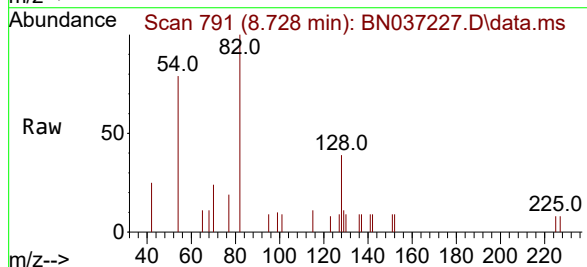
Instrument :  
BNA\_N  
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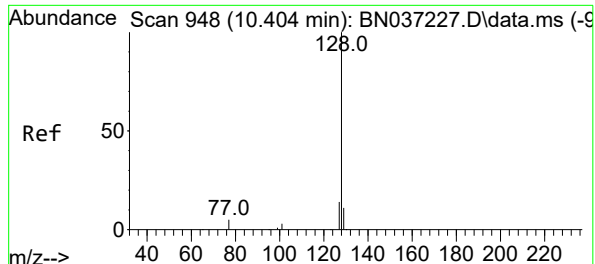
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 3210  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 13.2  | 10.6  | 15.8  |
| 54       | 11.5  | 9.2   | 13.8  |
| 68       | 6.7   | 5.4   | 8.0   |



#8  
Nitrobenzene-d5  
Concen: 0.389 ng  
RT: 8.728 min Scan# 791  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1234  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 39.0  | 31.2  | 46.8  |
| 54       | 79.1  | 63.3  | 94.9  |

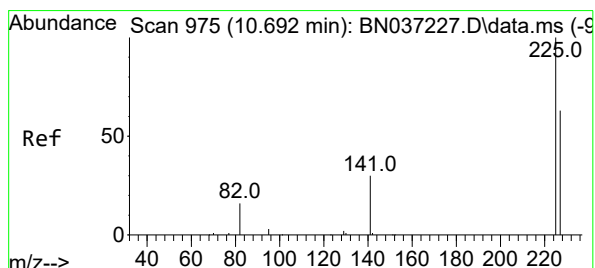
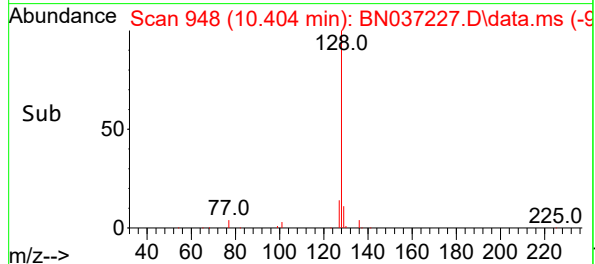
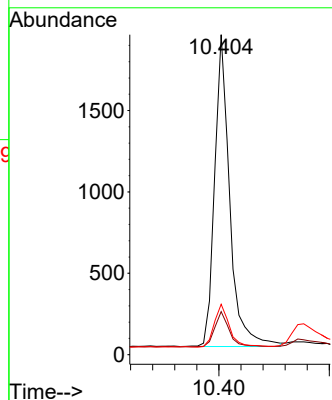
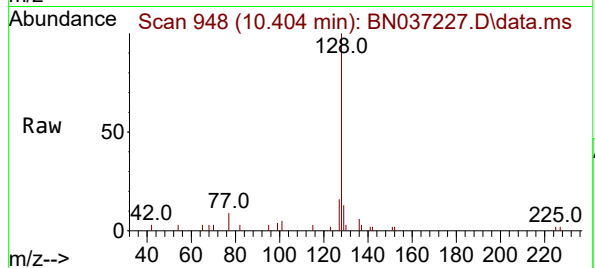




#9  
Naphthalene  
Concen: 0.391 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

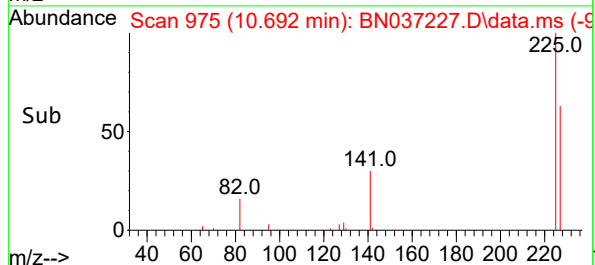
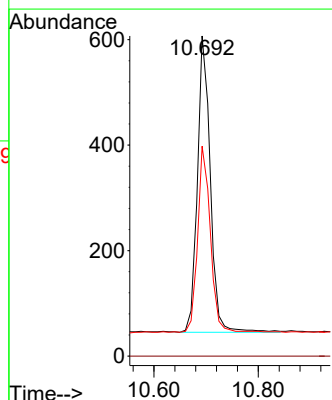
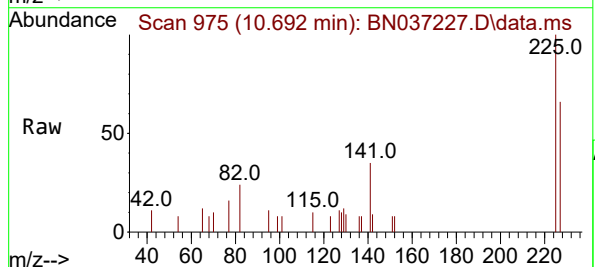
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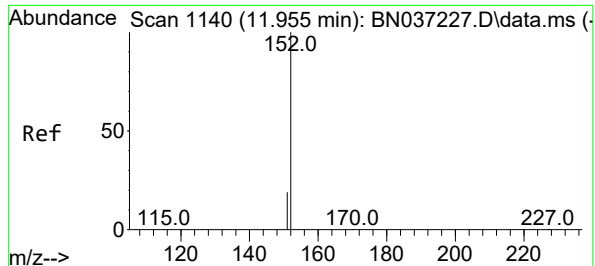
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Ion Ratio Lower Upper  
128 100  
129 13.4 10.7 16.1  
127 15.8 12.6 19.0



#10  
Hexachlorobutadiene  
Concen: 0.428 ng  
RT: 10.692 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

Tgt Ion:225 Resp: 968  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 61.6 49.2 73.8

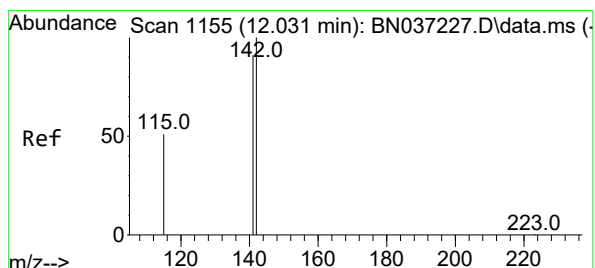
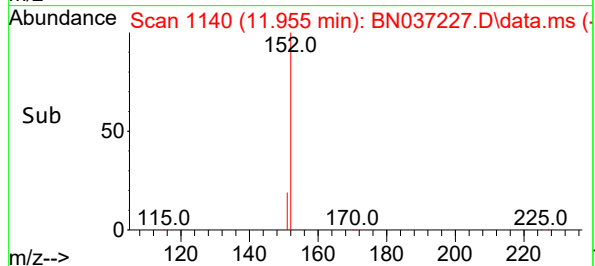
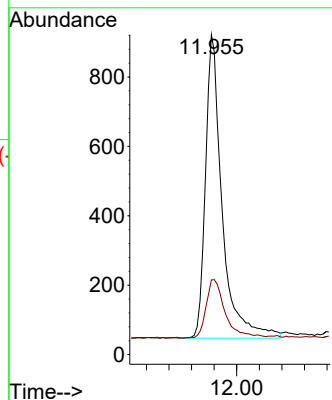
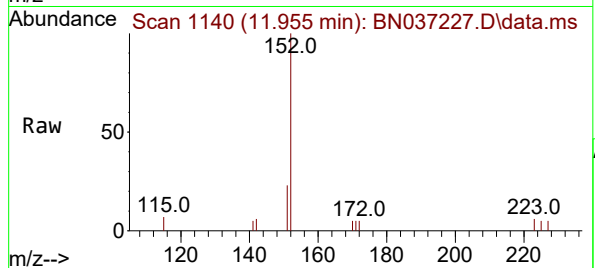




#11  
2-Methylnaphthalene-d10  
Concen: 0.415 ng  
RT: 11.955 min Scan# 1140  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

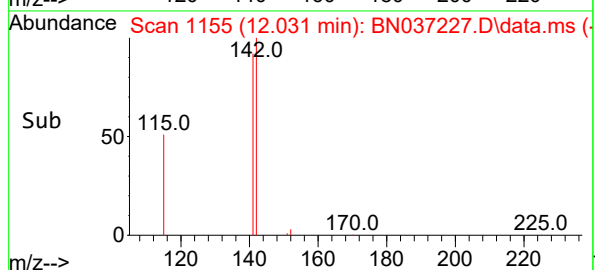
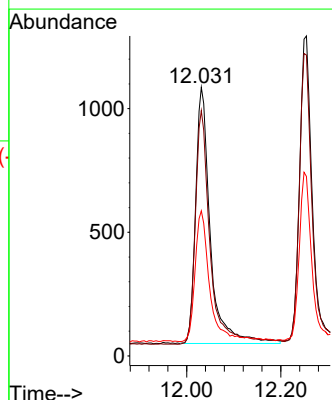
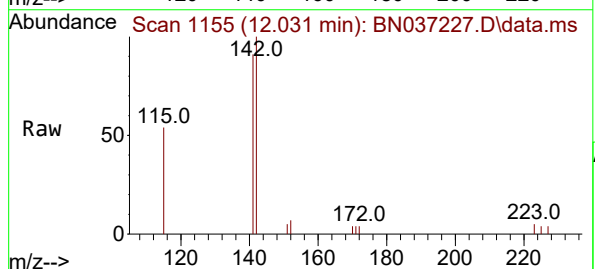
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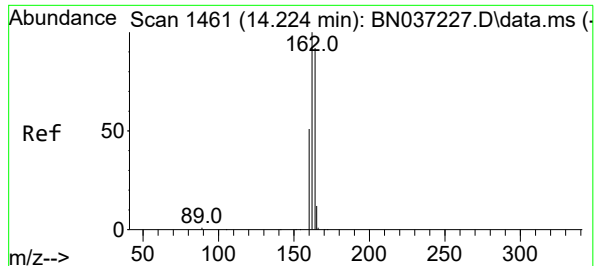
Tgt Ion:152 Resp: 1787  
Ion Ratio Lower Upper  
152 100  
151 22.4 17.9 26.9



#12  
2-Methylnaphthalene  
Concen: 0.400 ng  
RT: 12.031 min Scan# 1155  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

Tgt Ion:142 Resp: 2261  
Ion Ratio Lower Upper  
142 100  
141 91.3 73.0 109.6  
115 54.1 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

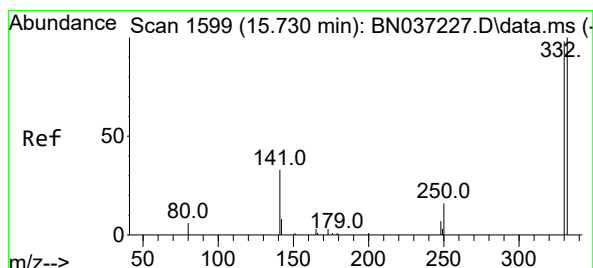
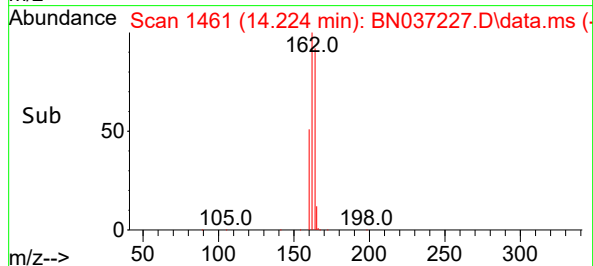
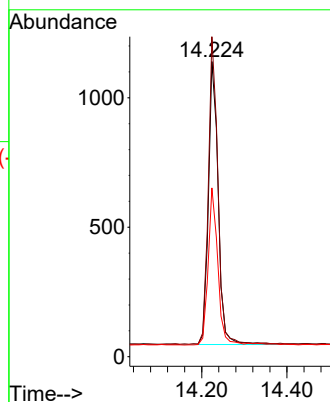
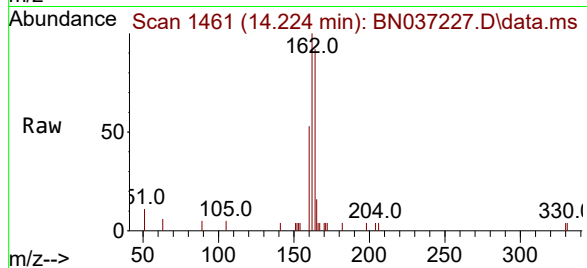
Tgt Ion:164 Resp: 1738

Ion Ratio Lower Upper

164 100

162 108.4 86.7 130.1

160 57.2 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.413 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

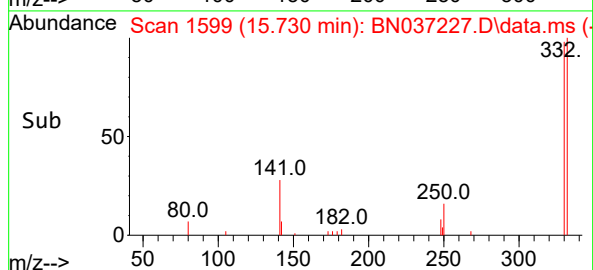
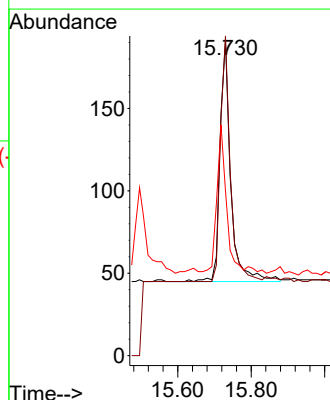
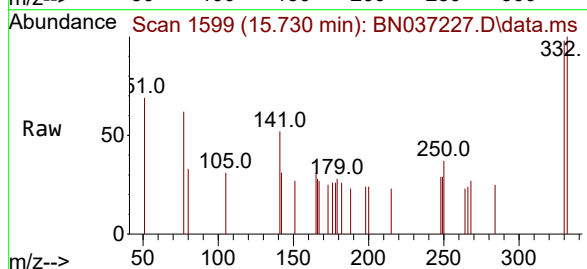
Tgt Ion:330 Resp: 298

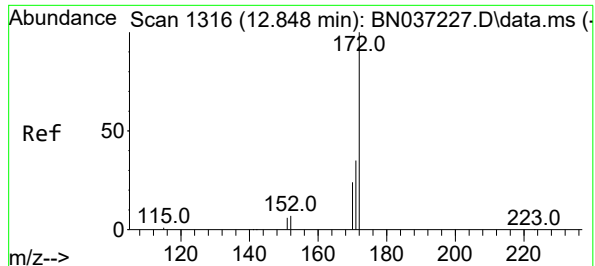
Ion Ratio Lower Upper

330 100

332 93.6 74.9 112.3

141 56.4 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.404 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

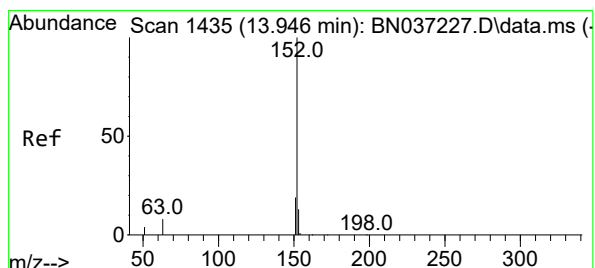
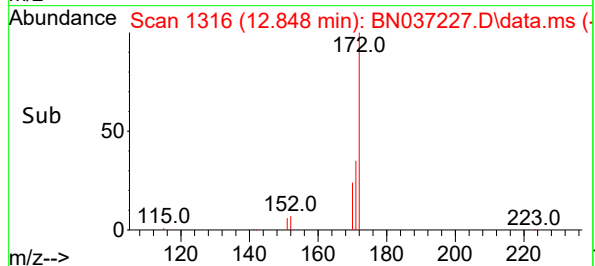
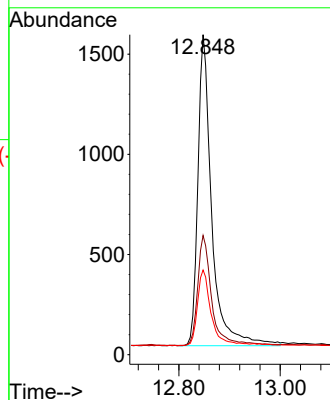
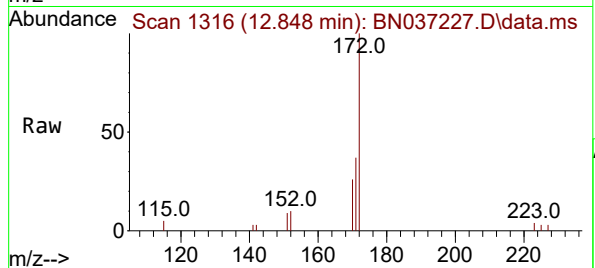
Tgt Ion:172 Resp: 2952

Ion Ratio Lower Upper

172 100

171 37.3 29.8 44.8

170 26.4 21.1 31.7



#16

Acenaphthylene

Concen: 0.382 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

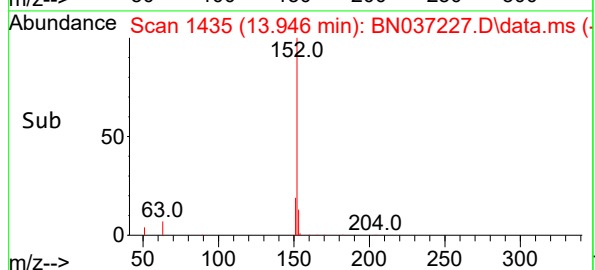
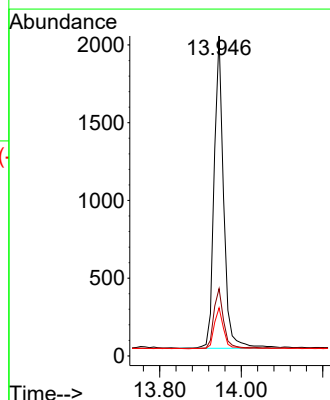
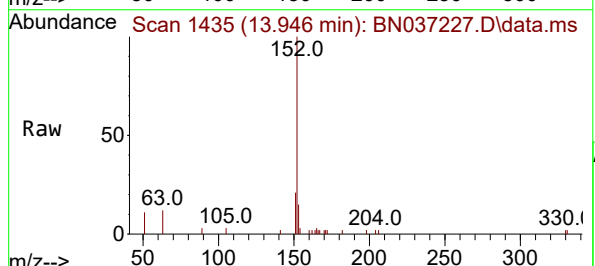
Tgt Ion:152 Resp: 3250

Ion Ratio Lower Upper

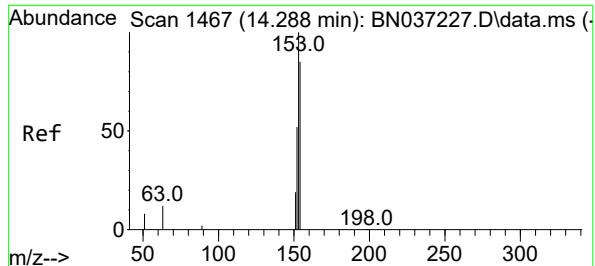
152 100

151 19.6 15.7 23.5

153 13.4 10.7 16.1







#17

Acenaphthene

Concen: 0.392 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

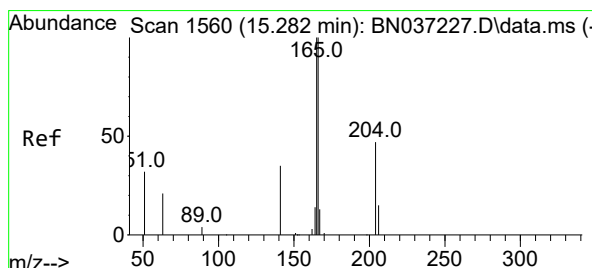
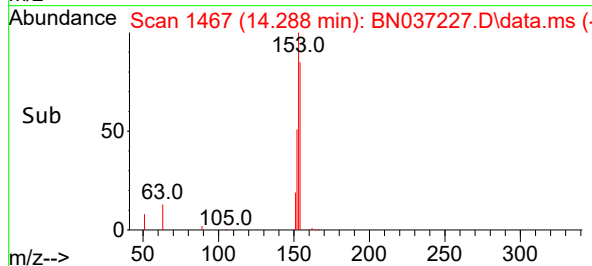
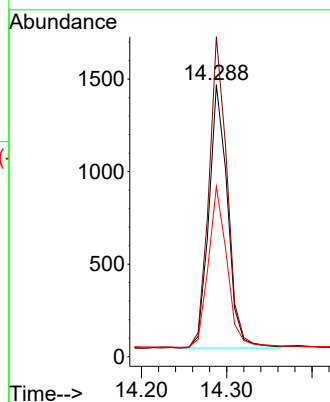
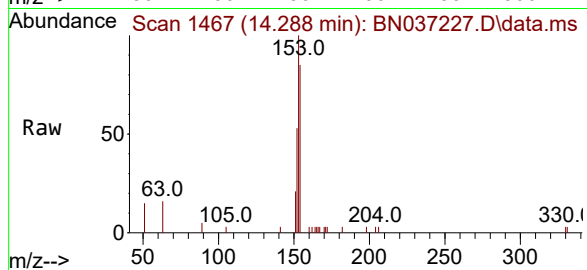
Tgt Ion:154 Resp: 2155

Ion Ratio Lower Upper

154 100

153 118.2 94.6 141.8

152 62.0 49.6 74.4



#18

Fluorene

Concen: 0.392 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

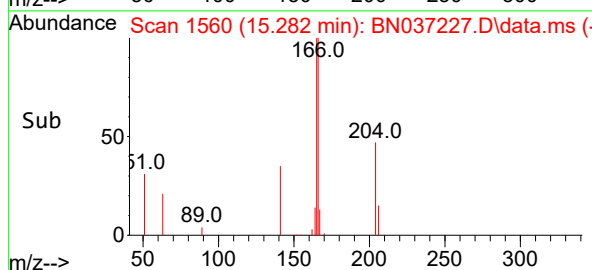
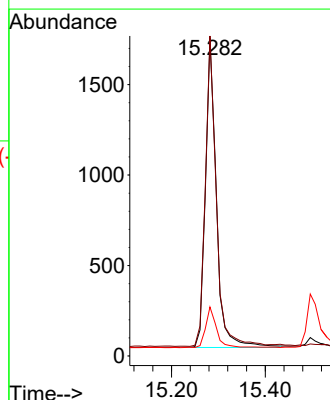
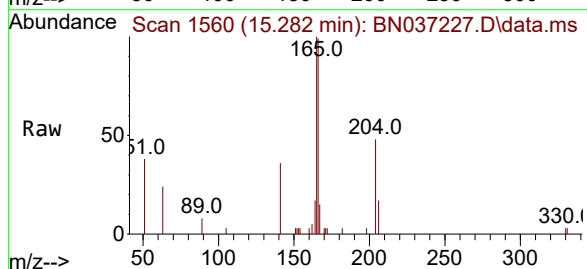
Tgt Ion:166 Resp: 2768

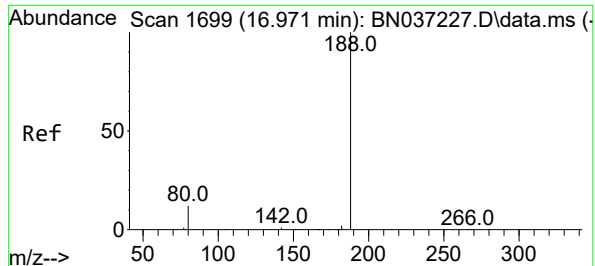
Ion Ratio Lower Upper

166 100

165 99.7 79.8 119.6

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

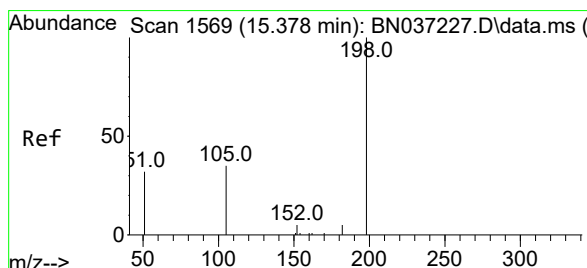
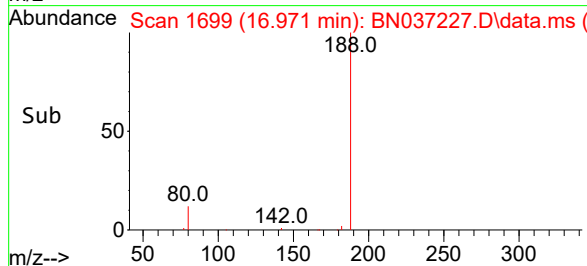
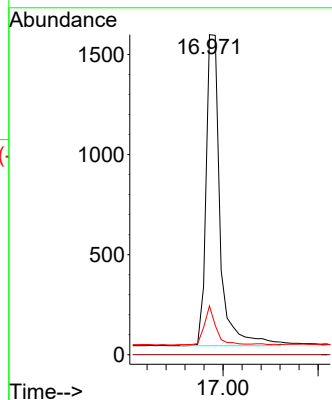
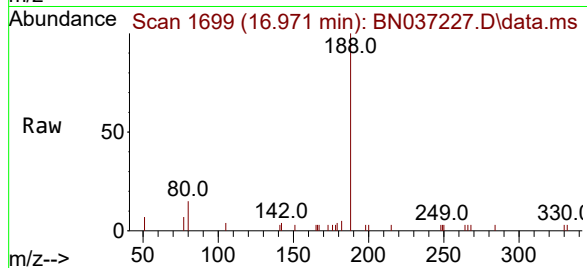
Tgt Ion:188 Resp: 3195

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.3 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.368 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

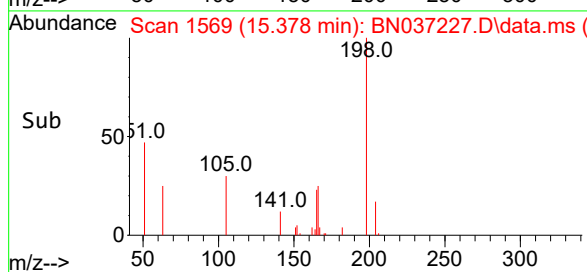
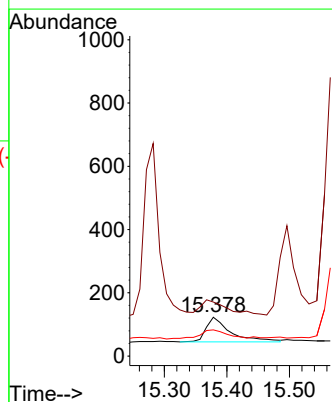
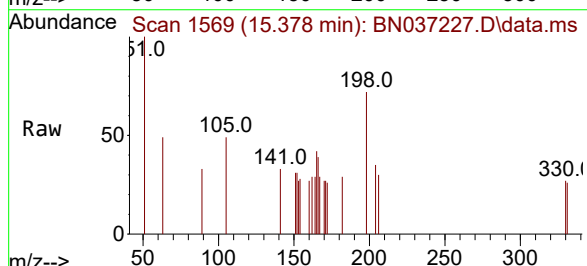
Tgt Ion:198 Resp: 211

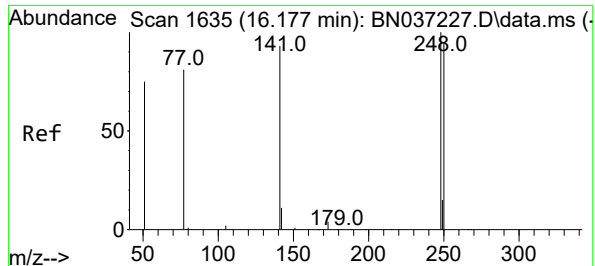
Ion Ratio Lower Upper

198 100

51 139.0 111.2 166.8

105 67.5 54.0 81.0

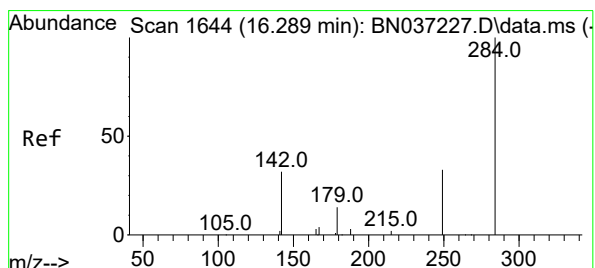
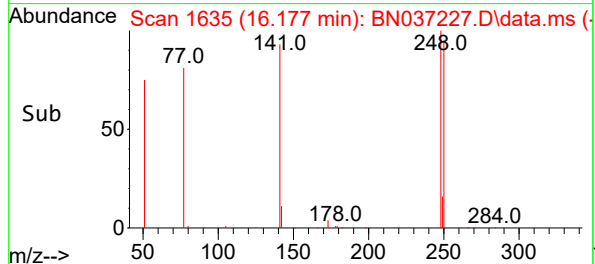
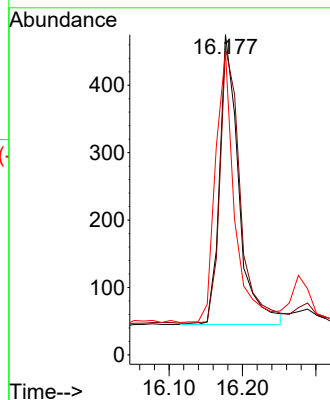
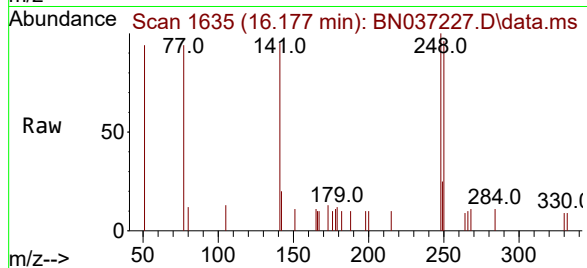




#21  
4-Bromophenyl-phenylether  
Concen: 0.375 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

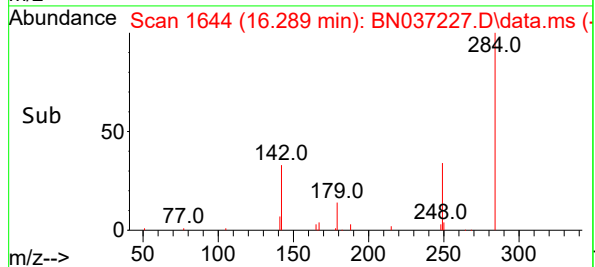
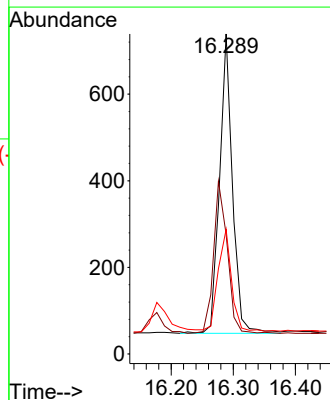
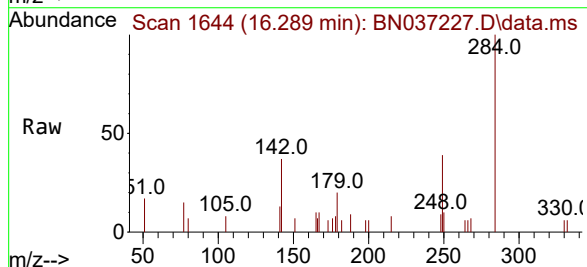
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

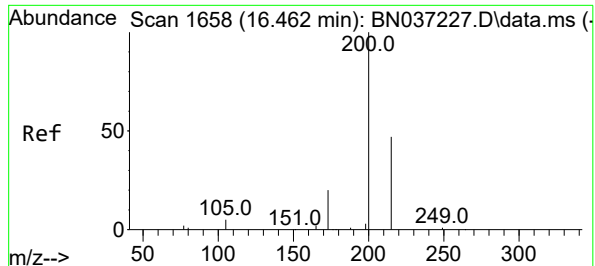
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 96.0  | 76.8  | 115.2 |
| 141     | 94.5  | 75.6  | 113.4 |



#22  
Hexachlorobenzene  
Concen: 0.412 ng  
RT: 16.289 min Scan# 1644  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 54.7  | 43.8  | 65.6  |
| 249     | 35.5  | 28.4  | 42.6  |





#23

Atrazine

Concen: 0.382 ng

RT: 16.462 min Scan# 1658

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

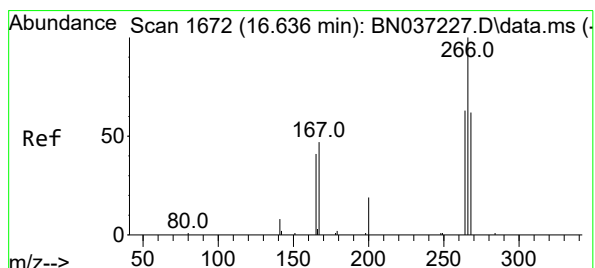
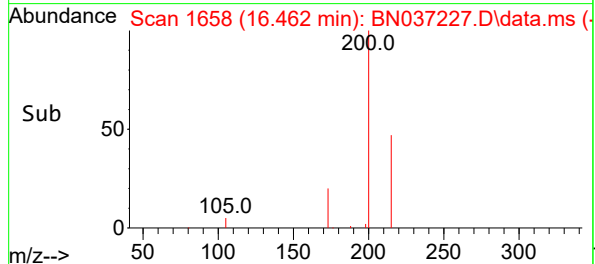
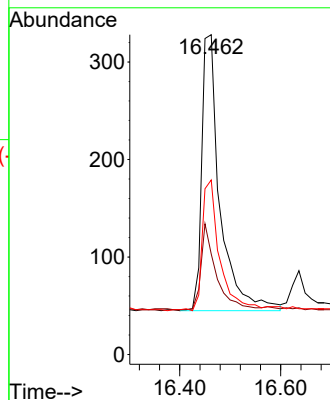
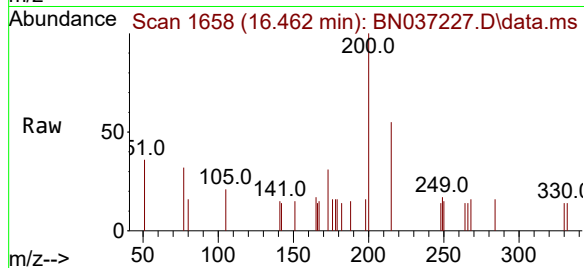
Tgt Ion:200 Resp: 710

Ion Ratio Lower Upper

200 100

173 31.4 25.1 37.7

215 54.6 43.7 65.5



#24

Pentachlorophenol

Concen: 0.336 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

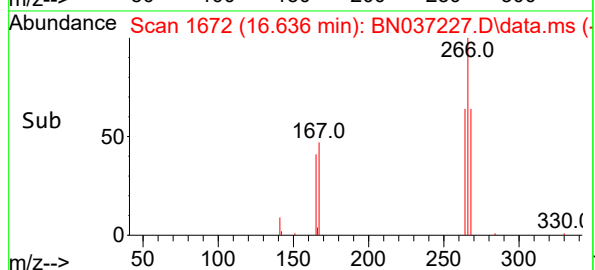
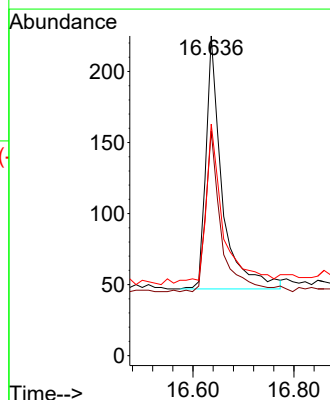
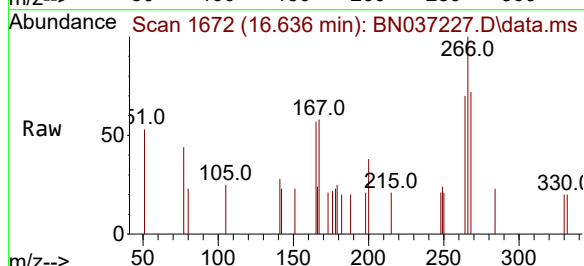
Tgt Ion:266 Resp: 397

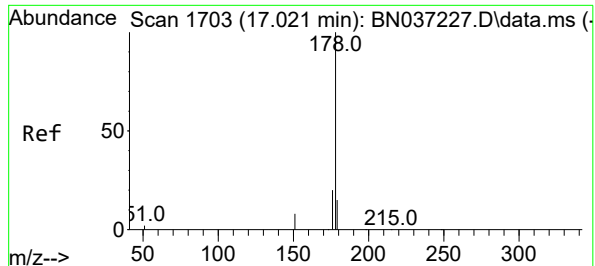
Ion Ratio Lower Upper

266 100

264 61.5 49.2 73.8

268 66.8 53.4 80.2





#25

Phenanthrene

Concen: 0.374 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

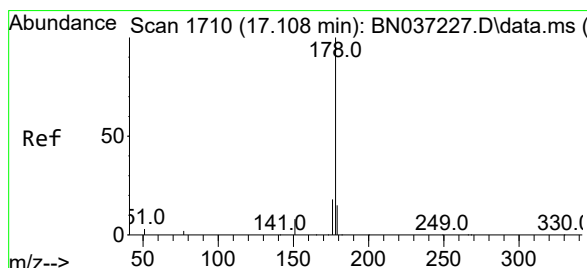
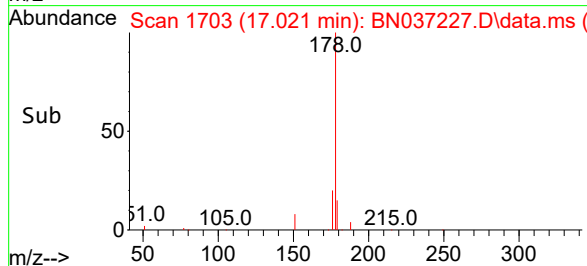
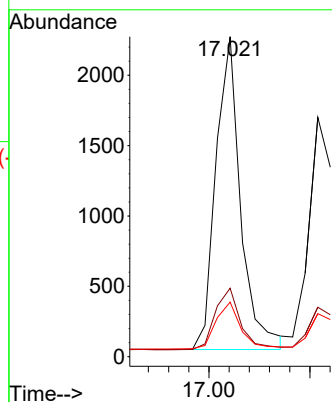
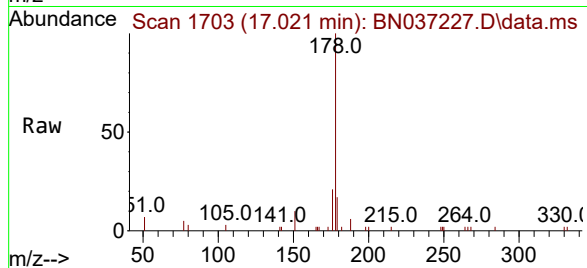
Tgt Ion:178 Resp: 3790

Ion Ratio Lower Upper

178 100

176 20.4 16.3 24.5

179 15.7 12.6 18.8



#26

Anthracene

Concen: 0.372 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

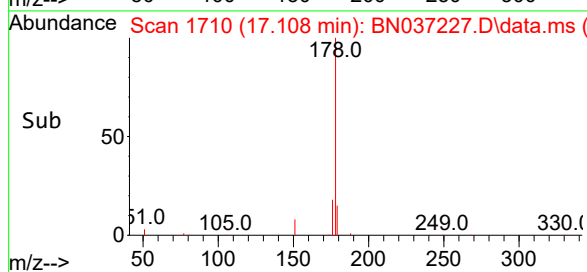
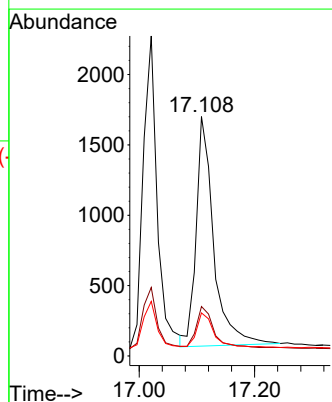
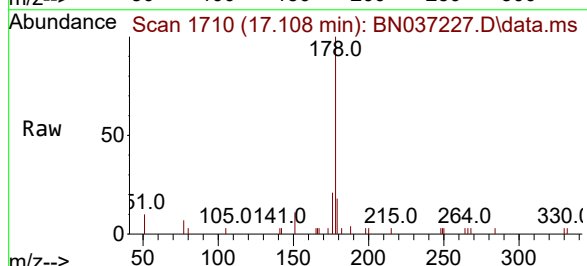
Tgt Ion:178 Resp: 3450

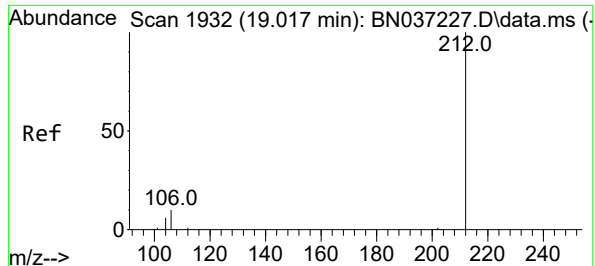
Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.5 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.402 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

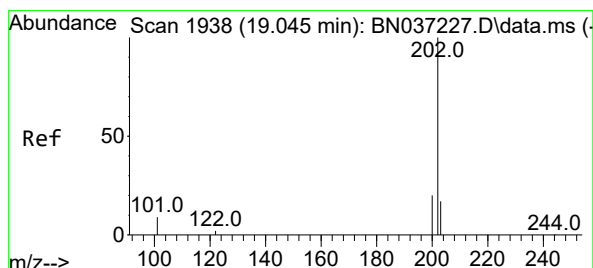
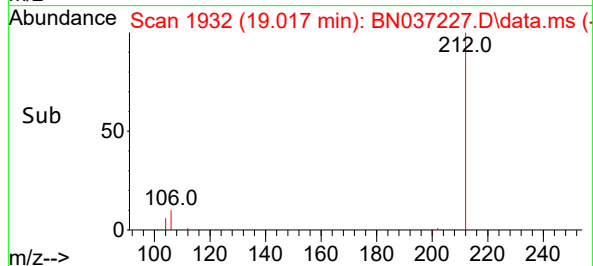
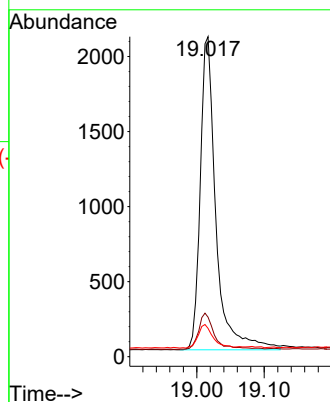
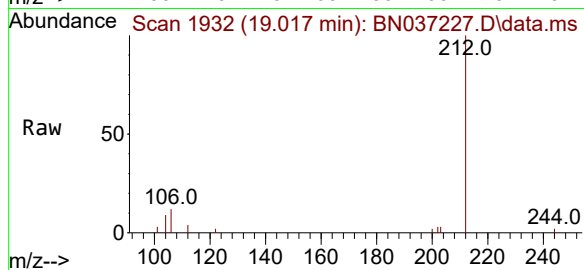
Tgt Ion:212 Resp: 3364

Ion Ratio Lower Upper

212 100

106 11.6 9.3 13.9

104 7.1 5.7 8.5



#28

Fluoranthene

Concen: 0.380 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

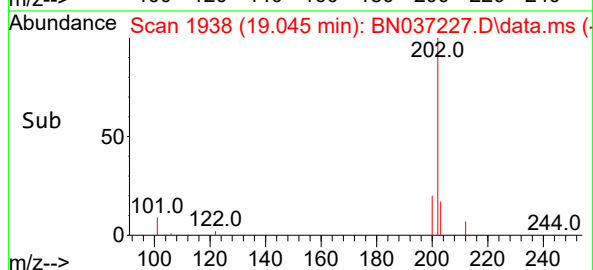
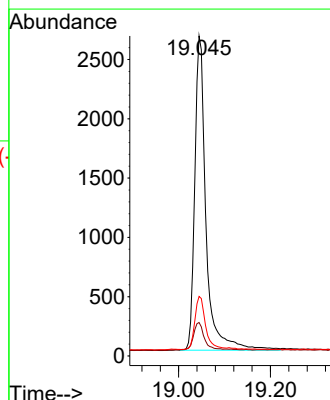
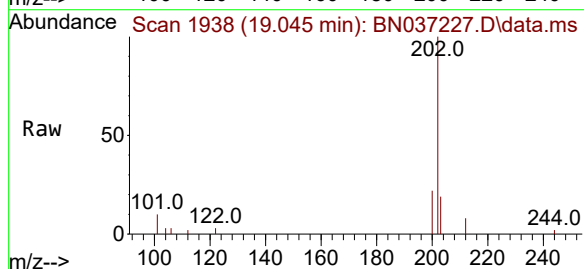
Tgt Ion:202 Resp: 4510

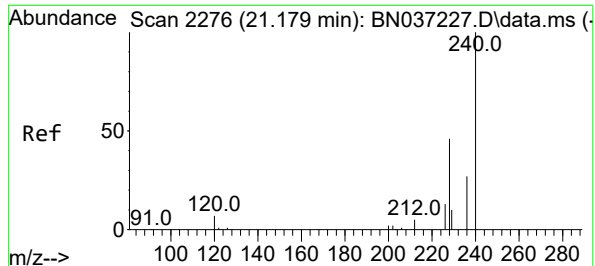
Ion Ratio Lower Upper

202 100

101 8.9 7.1 10.7

203 16.3 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.179 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

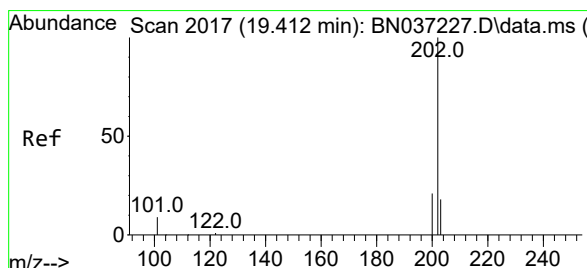
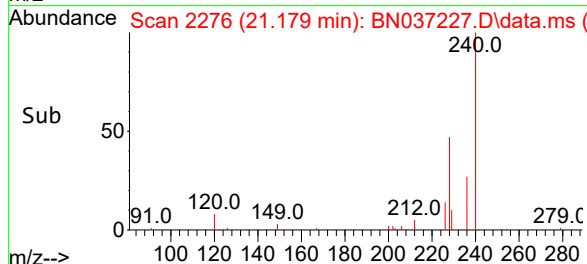
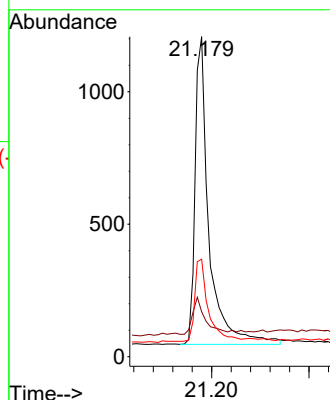
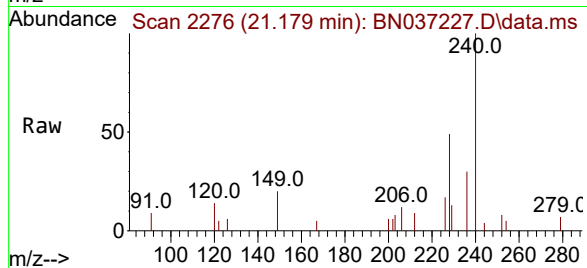
Tgt Ion:240 Resp: 2284

Ion Ratio Lower Upper

240 100

120 14.1 11.3 16.9

236 30.5 24.4 36.6



#30

Pyrene

Concen: 0.417 ng

RT: 19.412 min Scan# 2017

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

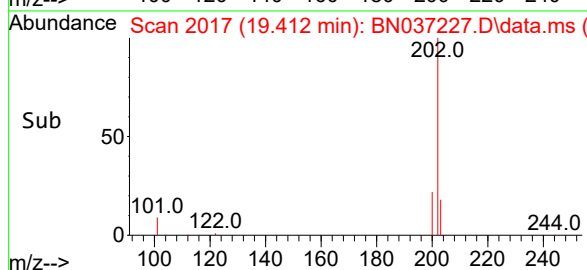
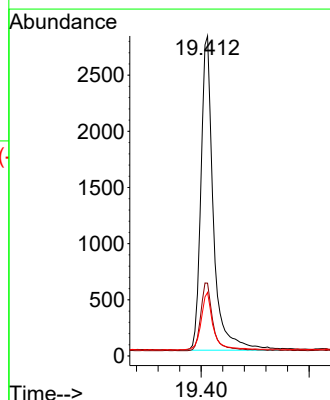
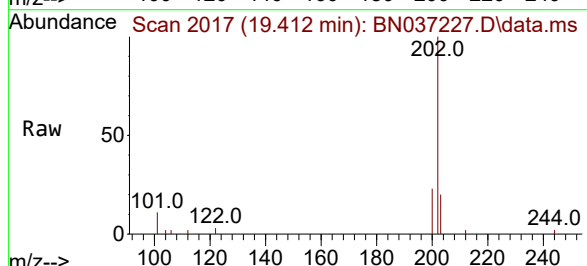
Tgt Ion:202 Resp: 4482

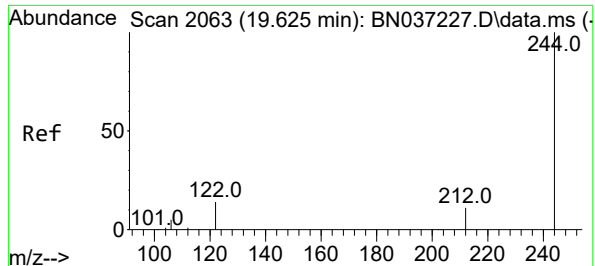
Ion Ratio Lower Upper

202 100

200 21.5 17.2 25.8

203 17.9 14.3 21.5

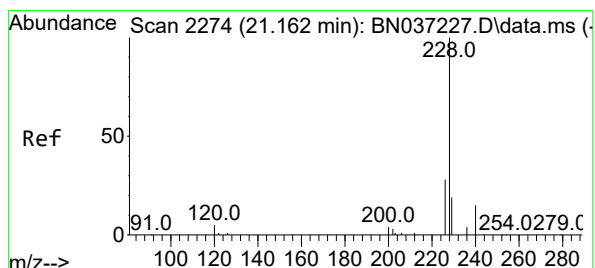
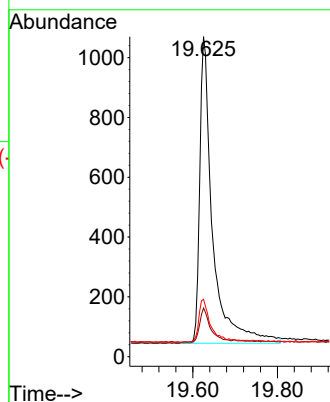
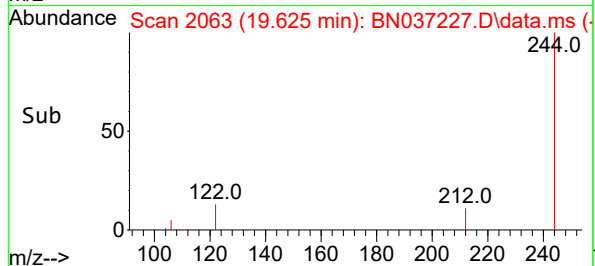
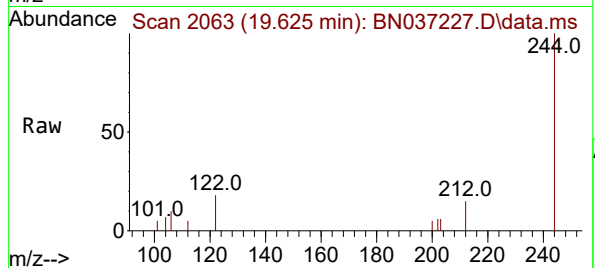




#31  
Terphenyl-d14  
Concen: 0.418 ng  
RT: 19.625 min Scan# 2063  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

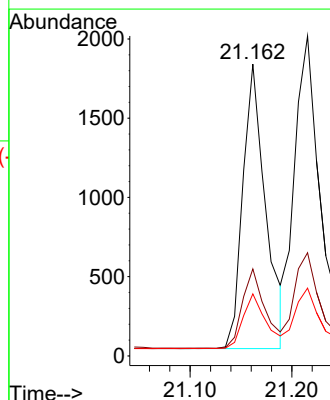
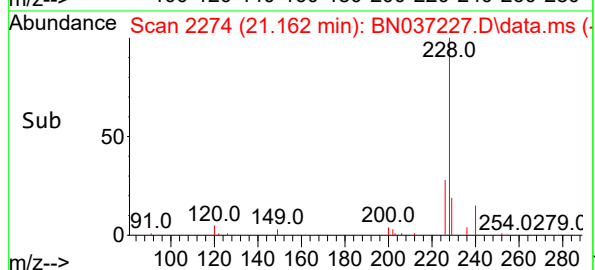
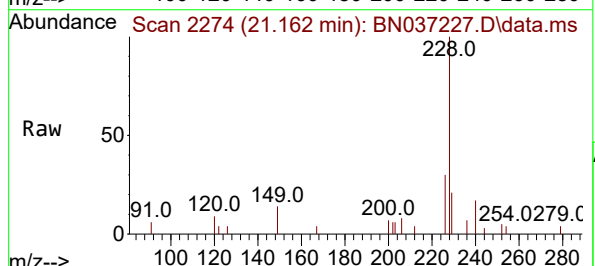
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 15.2  | 12.2  | 18.2  |
| 122     | 17.9  | 14.3  | 21.5  |

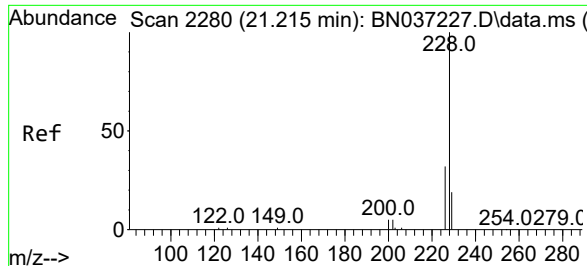


#32  
Benzo(a)anthracene  
Concen: 0.363 ng  
RT: 21.162 min Scan# 2274  
Delta R.T. 0.000 min  
Lab File: BN037227.D  
Acq: 13 Jun 2025 14:46

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 29.8  | 23.8  | 35.8  |
| 229     | 21.2  | 17.0  | 25.4  |







#33

Chrysene

Concen: 0.403 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

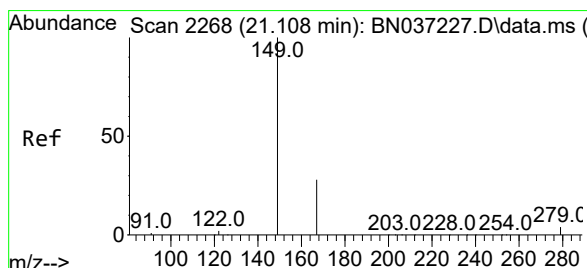
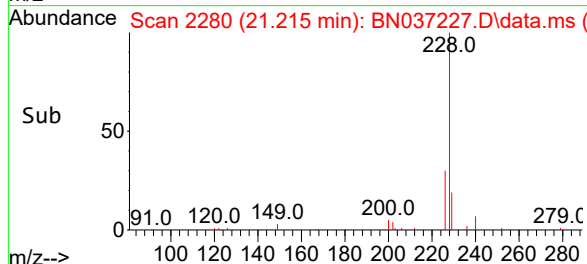
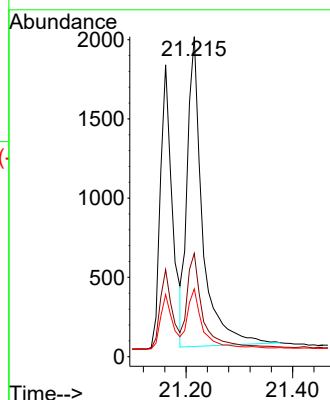
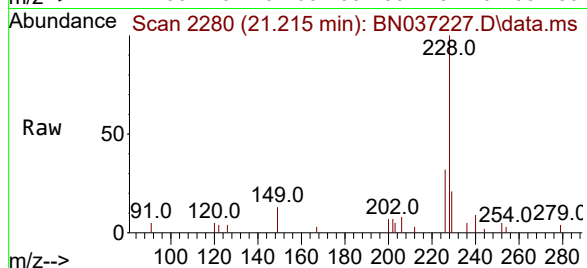
Tgt Ion:228 Resp: 3871

Ion Ratio Lower Upper

228 100

226 32.2 25.8 38.6

229 21.2 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.407 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

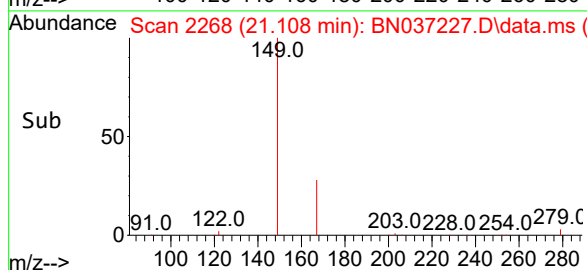
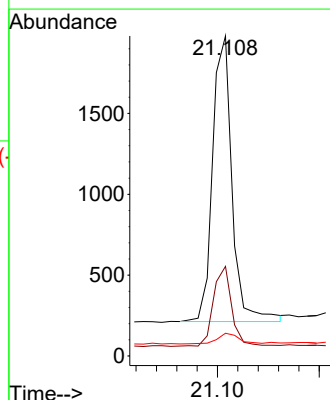
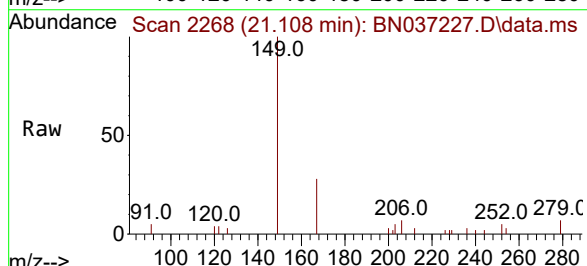
Tgt Ion:149 Resp: 2338

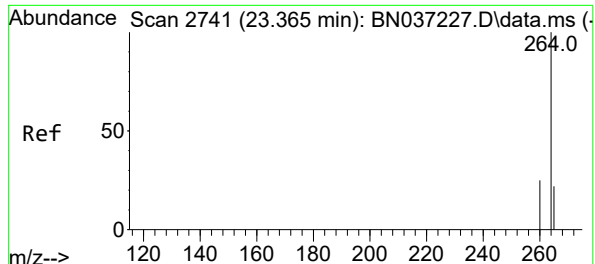
Ion Ratio Lower Upper

149 100

167 26.6 21.3 31.9

279 4.1 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.365 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

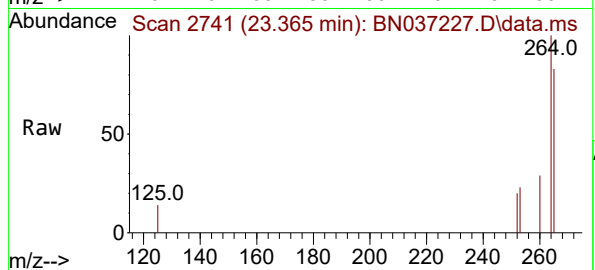
Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



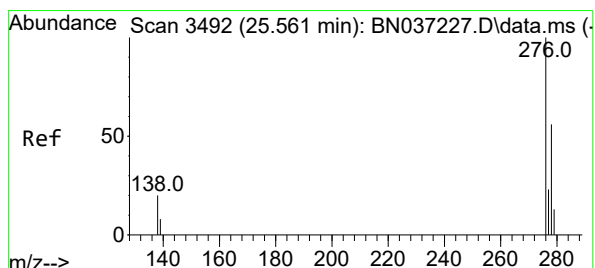
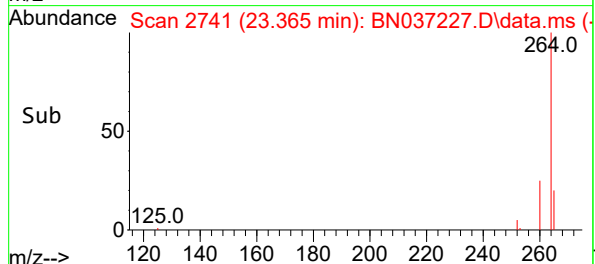
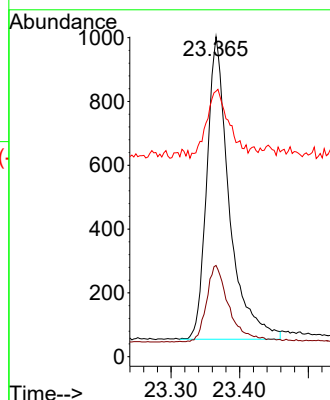
Tgt Ion:264 Resp: 2150

Ion Ratio Lower Upper

264 100

260 28.5 22.8 34.2

265 83.0 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.374 ng

RT: 25.561 min Scan# 3492

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

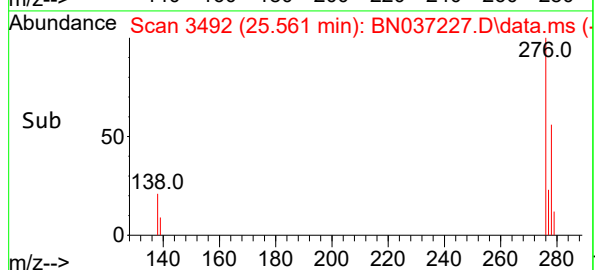
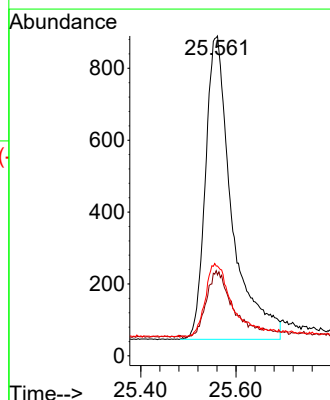
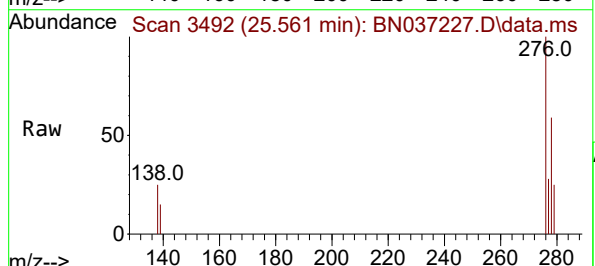
Tgt Ion:276 Resp: 3239

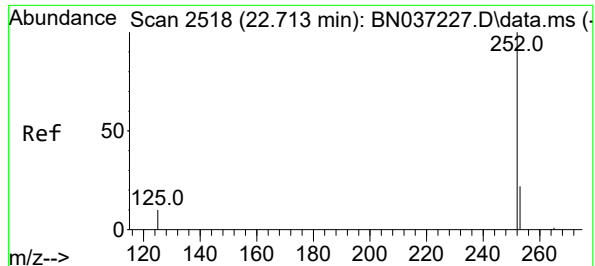
Ion Ratio Lower Upper

276 100

138 21.0 16.8 25.2

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.376 ng

RT: 22.713 min Scan# 2518

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

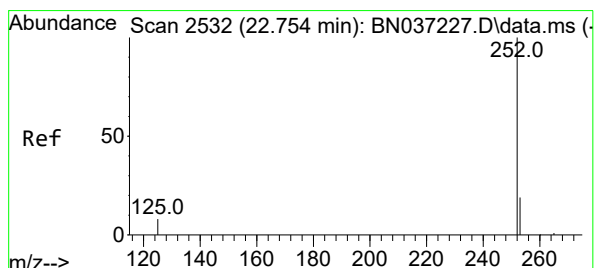
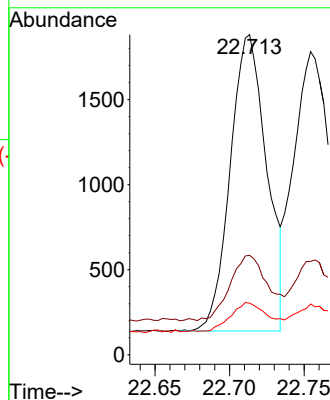
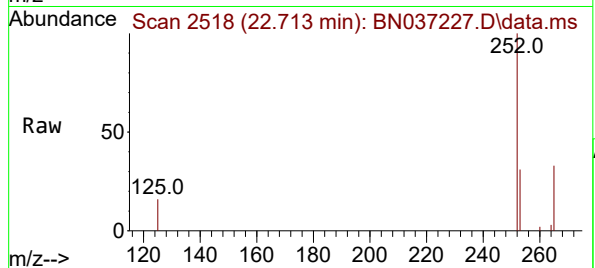
Tgt Ion:252 Resp: 2958

Ion Ratio Lower Upper

252 100

253 31.1 24.9 37.3

125 16.1 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.388 ng

RT: 22.754 min Scan# 2532

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

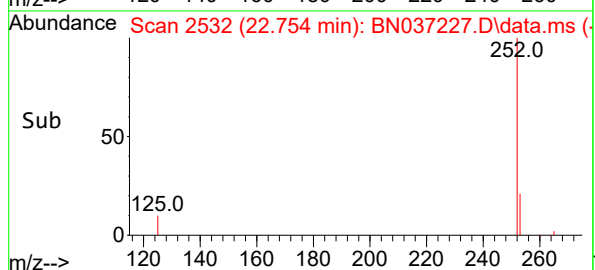
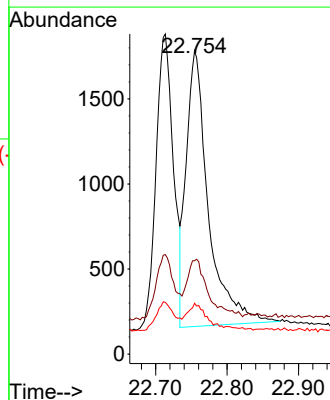
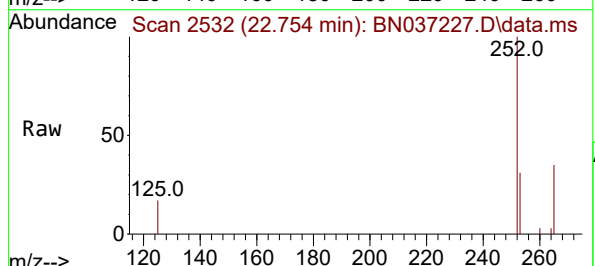
Tgt Ion:252 Resp: 3501

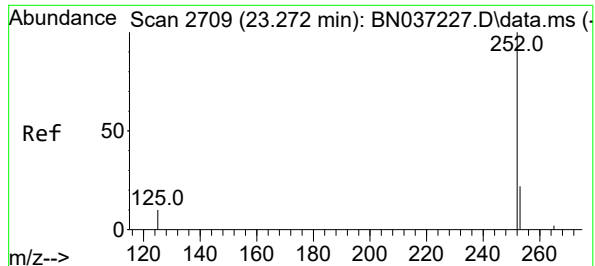
Ion Ratio Lower Upper

252 100

253 30.8 24.6 37.0

125 16.8 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.375 ng

RT: 23.272 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4

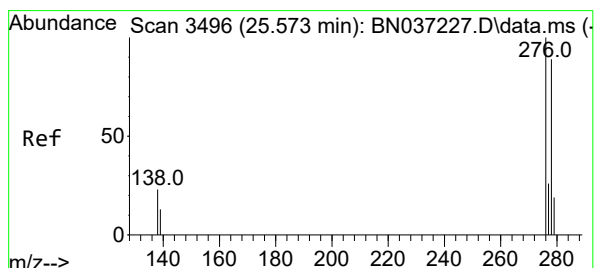
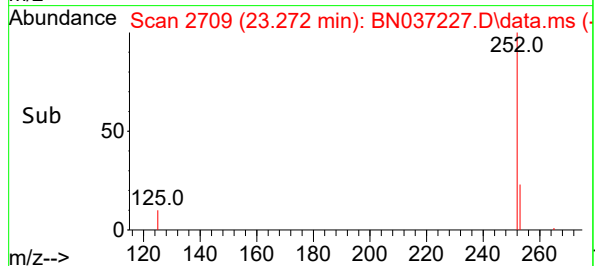
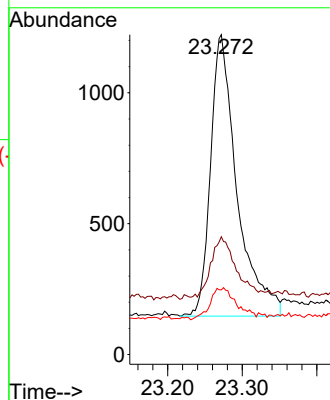
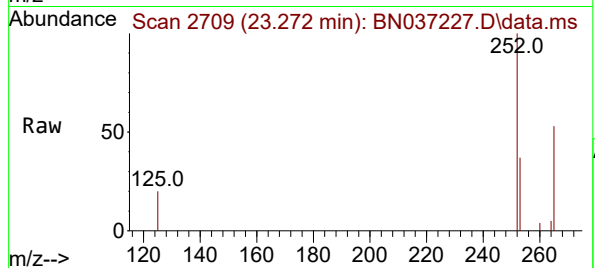
Tgt Ion:252 Resp: 2653

Ion Ratio Lower Upper

252 100

253 36.8 29.4 44.2

125 20.2 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.345 ng

RT: 25.573 min Scan# 3496

Delta R.T. 0.000 min

Lab File: BN037227.D

Acq: 13 Jun 2025 14:46

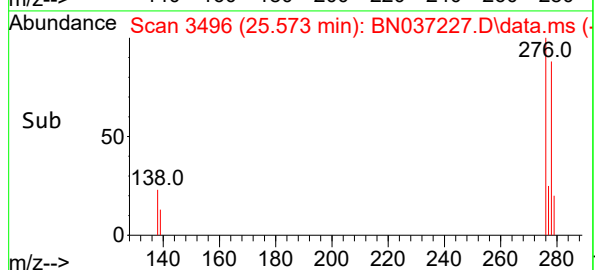
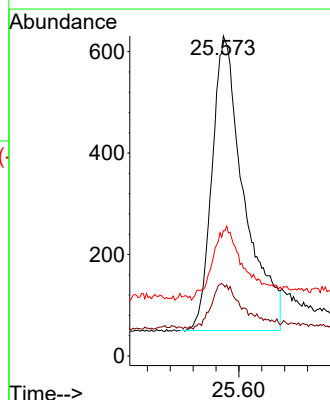
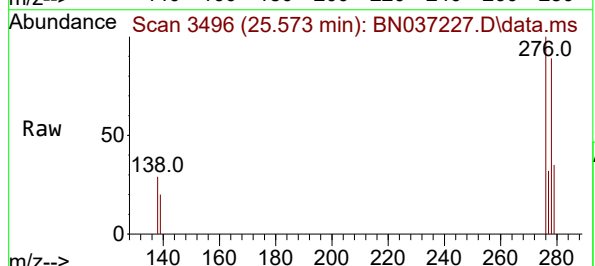
Tgt Ion:278 Resp: 2256

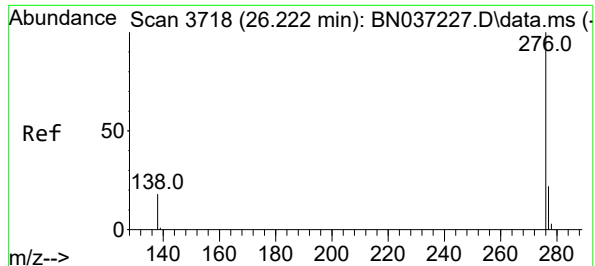
Ion Ratio Lower Upper

278 100

139 22.2 17.8 26.6

279 39.1 31.3 46.9





#41

Benzo(g,h,i)perylene

Concen: 0.385 ng

RT: 26.222 min Scan# 31

Delta R.T. 0.000 min

Lab File: BN037227.D

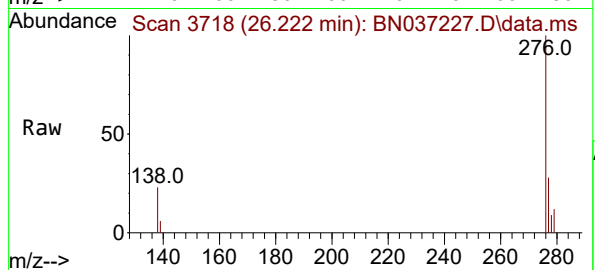
Acq: 13 Jun 2025 14:46

Instrument :

BNA\_N

ClientSampleId :

SSTDICCC0.4



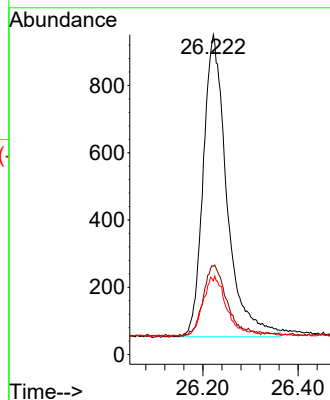
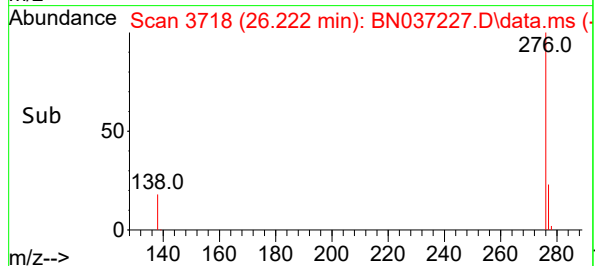
Tgt Ion:276 Resp: 3099

Ion Ratio Lower Upper

276 100

277 27.5 22.0 33.0

138 23.0 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037228.D  
 Acq On : 13 Jun 2025 15:22  
 Operator : RC/JU  
 Sample : SSTDICC0.8  
 Misc :  
 ALS Vial : 6 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.8

Quant Time: Jun 13 18:37:39 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:34:15 2025  
 Response via : Initial Calibration

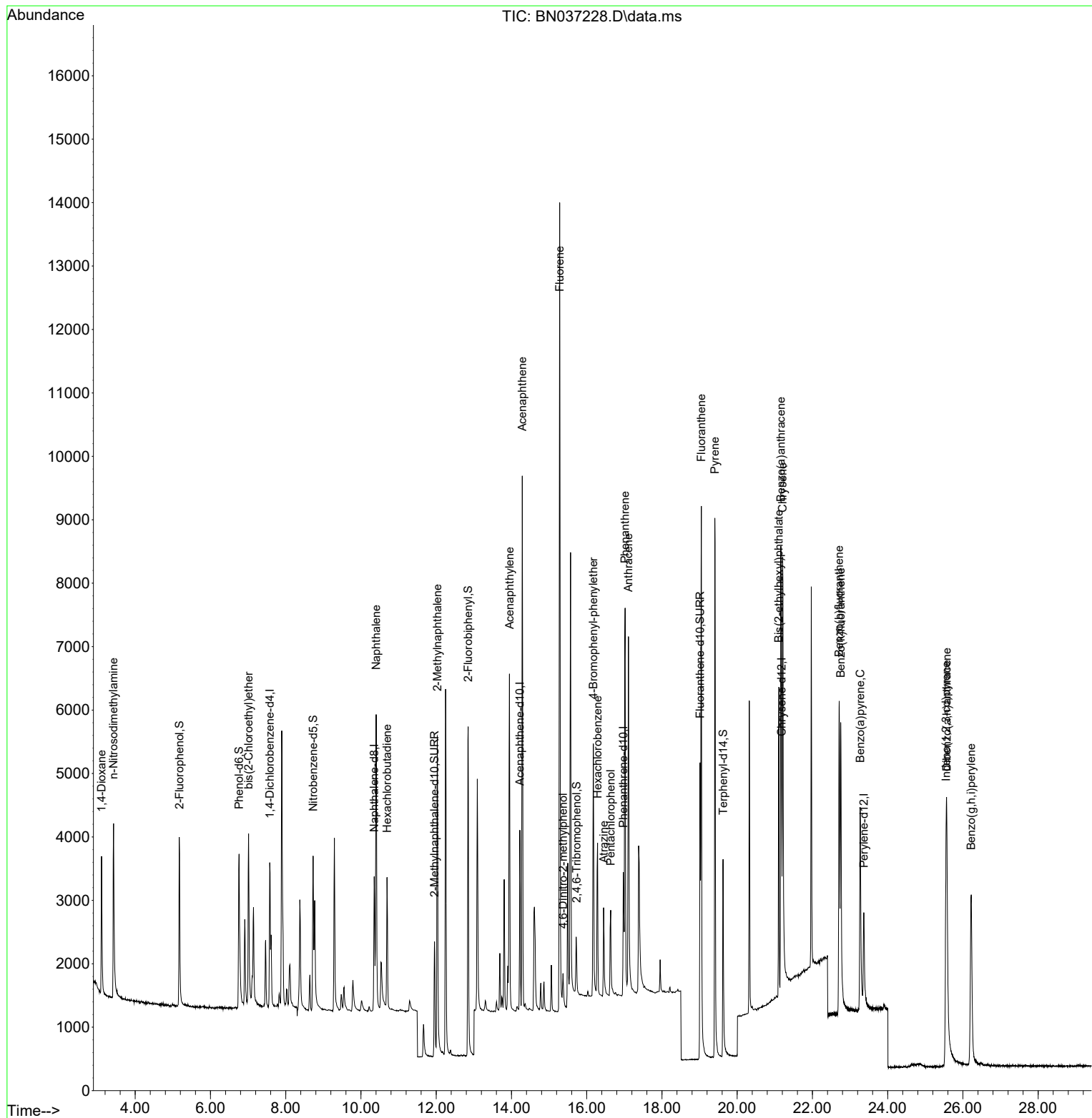
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1134     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.351 | 136  | 2810     | 0.400 | ng    | #-0.01    |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1528     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 16.971 | 188  | 2916     | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.180 | 240  | 2294     | 0.400 | ng    | 0.00      |
| 35) Perylene-d12              | 23.365 | 264  | 2157     | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.177  | 112  | 2057     | 0.739 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.759  | 99   | 2237     | 0.762 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.728  | 82   | 2118     | 0.763 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 11.955 | 152  | 2923     | 0.775 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 524      | 0.826 | ng    | 0.00      |
| 15) 2-Fluorobiphenyl          | 12.848 | 172  | 5066     | 0.789 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.012 | 212  | 5930     | 0.777 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.625 | 244  | 3995     | 0.770 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.104  | 88   | 1213     | 0.780 | ng    | Qvalue 91 |
| 3) n-Nitrosodimethylamine     | 3.422  | 42   | 2739     | 0.773 | ng    | 98        |
| 6) bis(2-Chloroethyl)ether    | 7.011  | 93   | 2165     | 0.823 | ng    | 90        |
| 9) Naphthalene                | 10.404 | 128  | 6231     | 0.766 | ng    | 97        |
| 10) Hexachlorobutadiene       | 10.692 | 225  | 1523     | 0.769 | ng    | # 97      |
| 12) 2-Methylnaphthalene       | 12.031 | 142  | 3926     | 0.794 | ng    | 99        |
| 16) Acenaphthylene            | 13.946 | 152  | 5851     | 0.781 | ng    | 99        |
| 17) Acenaphthene              | 14.288 | 154  | 3758     | 0.778 | ng    | 100       |
| 18) Fluorene                  | 15.282 | 166  | 4919     | 0.792 | ng    | 99        |
| 20) 4,6-Dinitro-2-methylph... | 15.368 | 198  | 499      | 0.762 | ng    | # 77      |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 1493     | 0.786 | ng    | 91        |
| 22) Hexachlorobenzene         | 16.289 | 284  | 1655     | 0.751 | ng    | 97        |
| 23) Atrazine                  | 16.450 | 200  | 1327     | 0.783 | ng    | 93        |
| 24) Pentachlorophenol         | 16.636 | 266  | 800      | 0.741 | ng    | 99        |
| 25) Phenanthrene              | 17.021 | 178  | 7220     | 0.781 | ng    | 99        |
| 26) Anthracene                | 17.108 | 178  | 6635     | 0.784 | ng    | 99        |
| 28) Fluoranthene              | 19.045 | 202  | 8450     | 0.781 | ng    | 99        |
| 30) Pyrene                    | 19.407 | 202  | 8483     | 0.787 | ng    | 99        |
| 32) Benzo(a)anthracene        | 21.162 | 228  | 6109     | 0.789 | ng    | 98        |
| 33) Chrysene                  | 21.206 | 228  | 7421     | 0.769 | ng    | 99        |
| 34) Bis(2-ethylhexyl)phtha... | 21.108 | 149  | 4590     | 0.796 | ng    | 100       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.552 | 276  | 6412     | 0.737 | ng    | # 88      |
| 37) Benzo(b)fluoranthene      | 22.711 | 252  | 6280     | 0.796 | ng    | 91        |
| 38) Benzo(k)fluoranthene      | 22.752 | 252  | 7192     | 0.795 | ng    | # 92      |
| 39) Benzo(a)pyrene            | 23.269 | 252  | 5598     | 0.789 | ng    | # 88      |
| 40) Dibenzo(a,h)anthracene    | 25.570 | 278  | 4824     | 0.736 | ng    | # 88      |
| 41) Benzo(g,h,i)perylene      | 26.219 | 276  | 5978     | 0.741 | ng    | 98        |

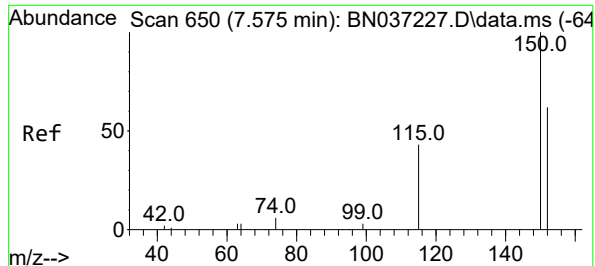
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037228.D  
Acq On : 13 Jun 2025 15:22  
Operator : RC/JU  
Sample : SSTDICC0.8  
Misc :  
ALS Vial : 6 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Quant Time: Jun 13 18:37:39 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:34:15 2025  
Response via : Initial Calibration

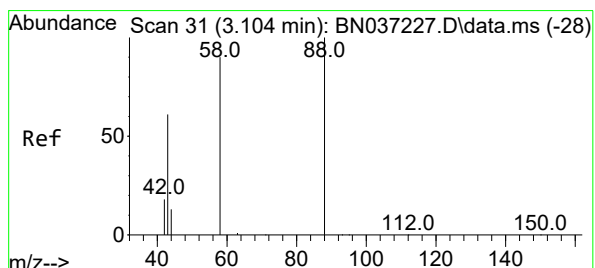
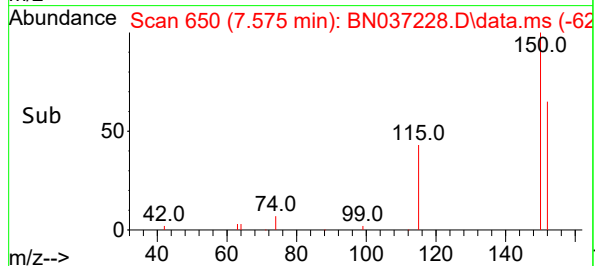
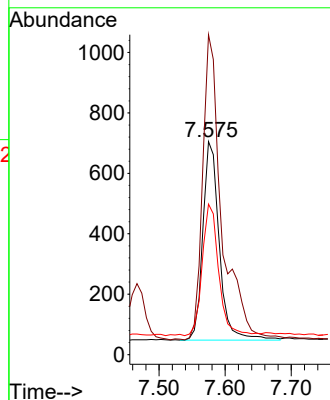
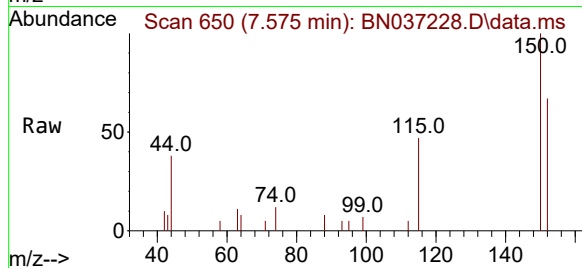




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

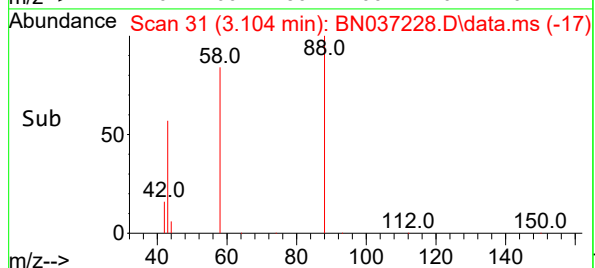
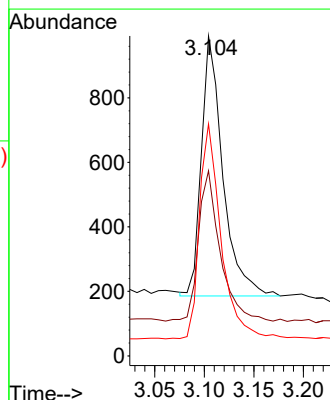
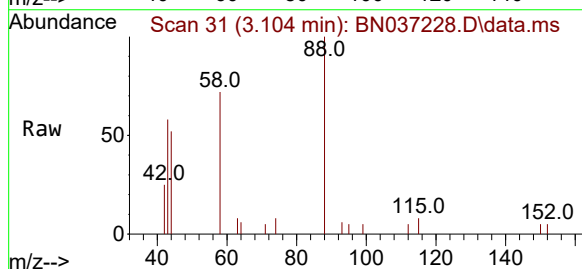
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

Tgt Ion:152 Resp: 1134  
Ion Ratio Lower Upper  
152 100  
150 150.2 125.2 187.8  
115 70.6 58.4 87.6

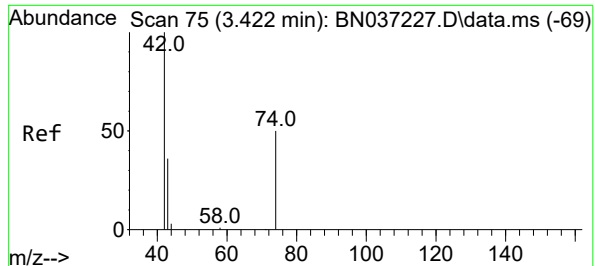


#2  
1,4-Dioxane  
Concen: 0.780 ng  
RT: 3.104 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

Tgt Ion: 88 Resp: 1213  
Ion Ratio Lower Upper  
88 100  
43 58.5 52.6 79.0  
58 83.3 73.5 110.3



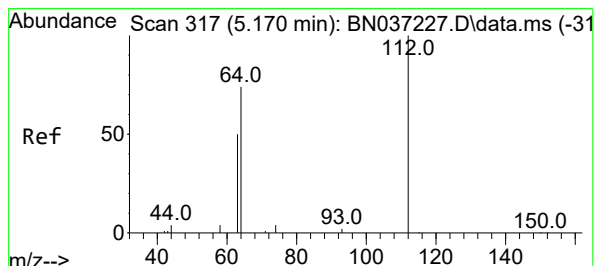
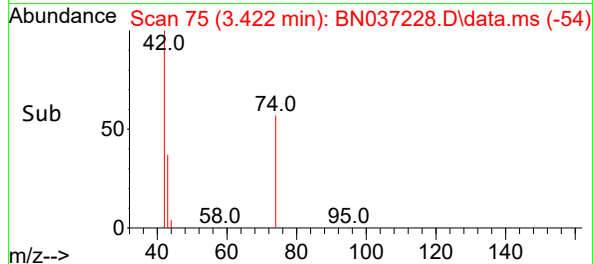
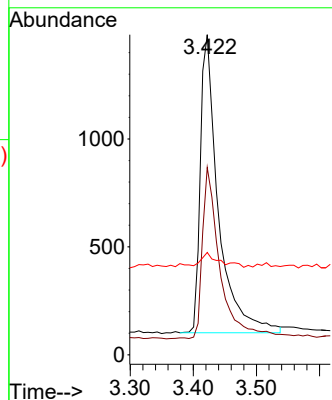
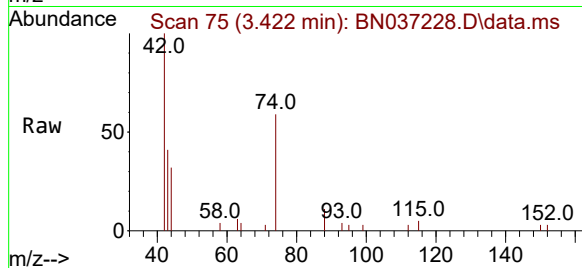




#3  
n-Nitrosodimethylamine  
Concen: 0.773 ng  
RT: 3.422 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

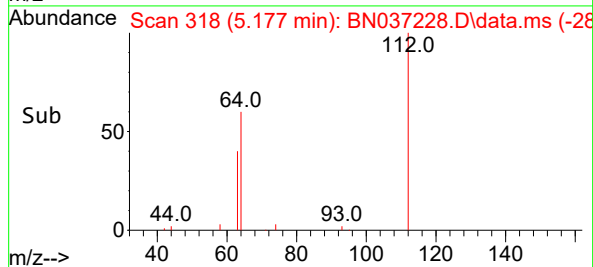
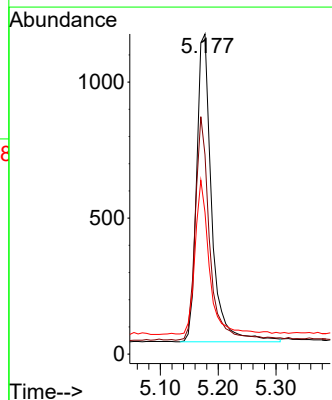
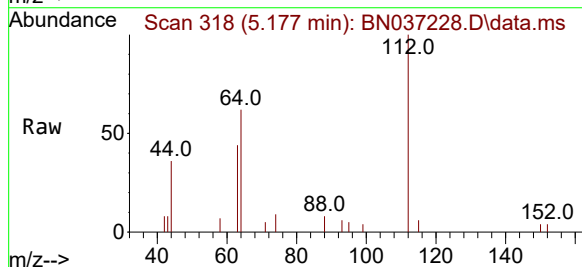
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

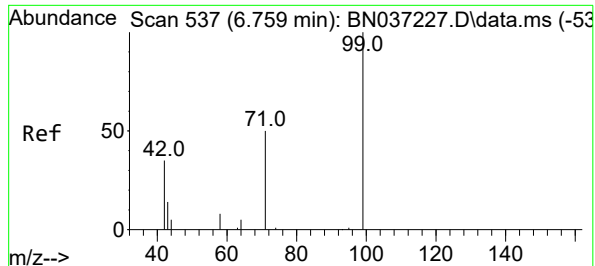
Tgt Ion: 42 Resp: 2739  
Ion Ratio Lower Upper  
42 100  
74 56.8 44.6 66.8  
44 4.9 3.5 5.3



#4  
2-Fluorophenol  
Concen: 0.739 ng  
RT: 5.177 min Scan# 318  
Delta R.T. 0.007 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

Tgt Ion: 112 Resp: 2057  
Ion Ratio Lower Upper  
112 100  
64 70.2 57.2 85.8  
63 46.4 39.8 59.6

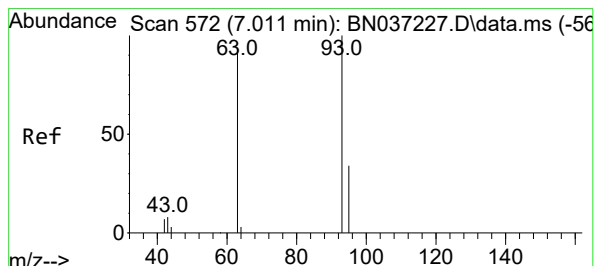
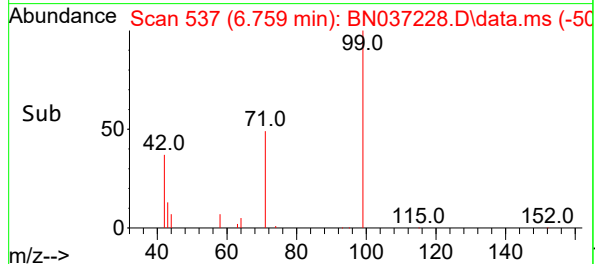
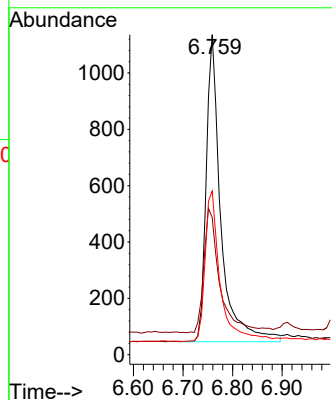
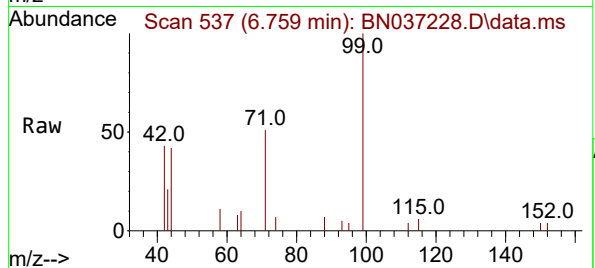




#5  
Phenol-d6  
Concen: 0.762 ng  
RT: 6.759 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

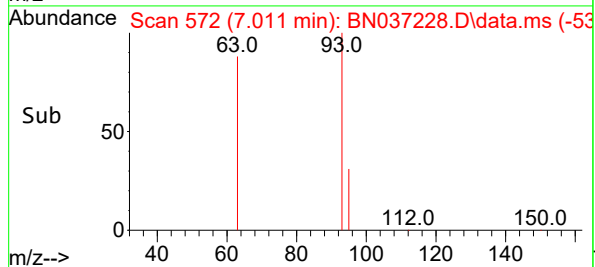
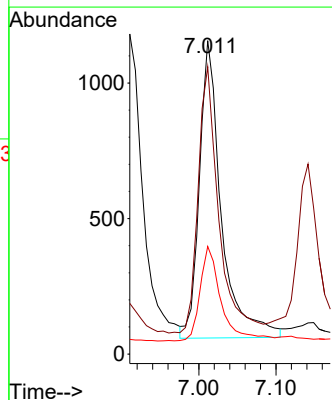
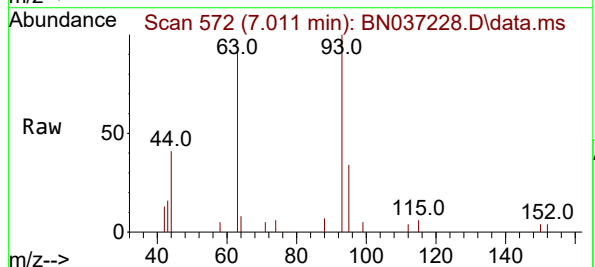
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

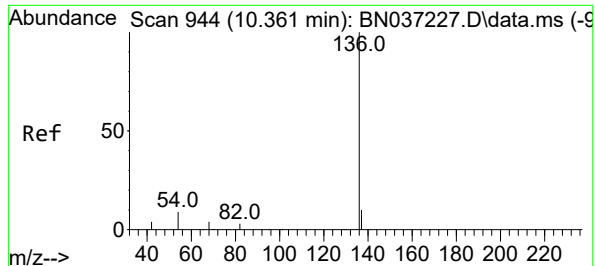
Tgt Ion: 99 Resp: 2237  
Ion Ratio Lower Upper  
99 100  
42 43.8 36.2 54.4  
71 50.7 42.4 63.6



#6  
bis(2-Chloroethyl)ether  
Concen: 0.823 ng  
RT: 7.011 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

Tgt Ion: 93 Resp: 2165  
Ion Ratio Lower Upper  
93 100  
63 83.9 75.2 112.8  
95 30.8 28.3 42.5

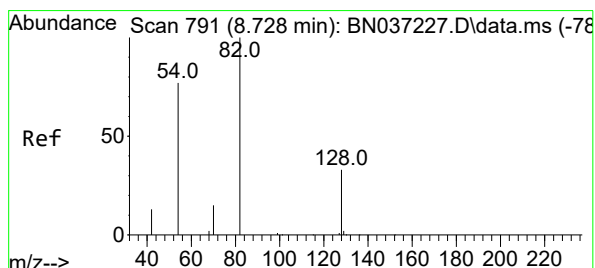
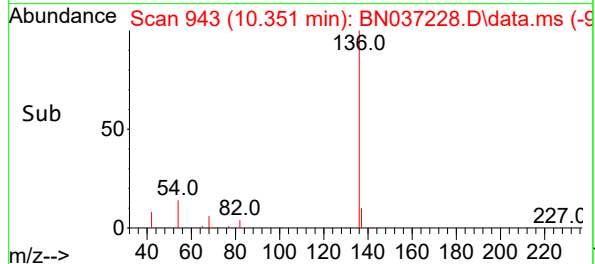
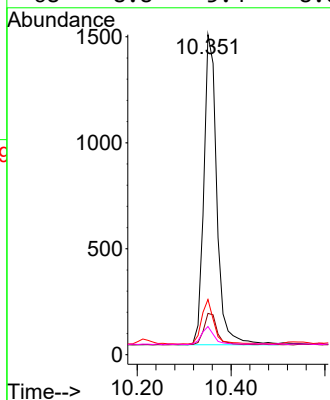
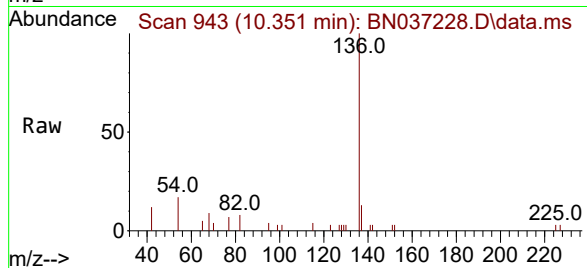




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 944  
Delta R.T. -0.011 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

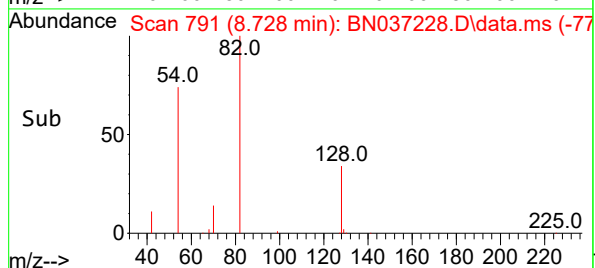
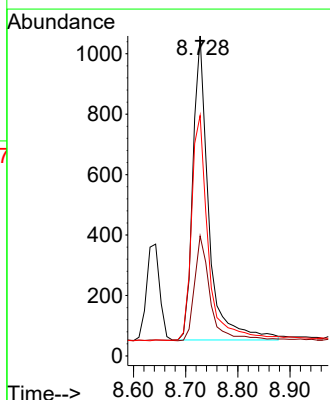
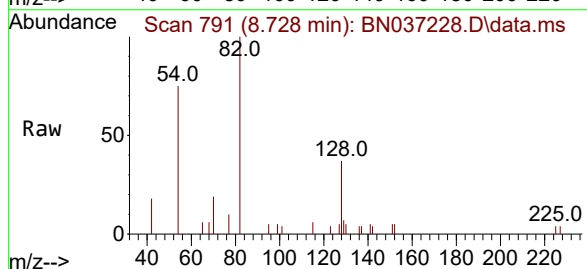
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

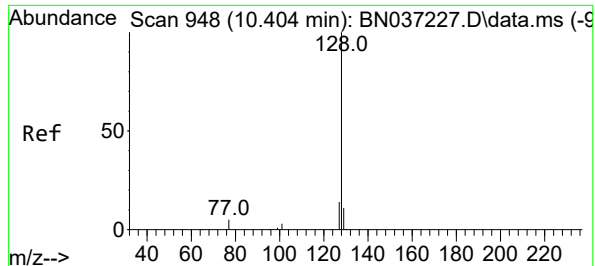
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 2810  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.9  | 10.6  | 15.8  |
| 54       | 17.3  | 9.2   | 13.8# |
| 68       | 8.8   | 5.4   | 8.0#  |



#8  
Nitrobenzene-d5  
Concen: 0.763 ng  
RT: 8.728 min Scan# 791  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 2118  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 37.5  | 31.2  | 46.8  |
| 54       | 75.2  | 63.3  | 94.9  |

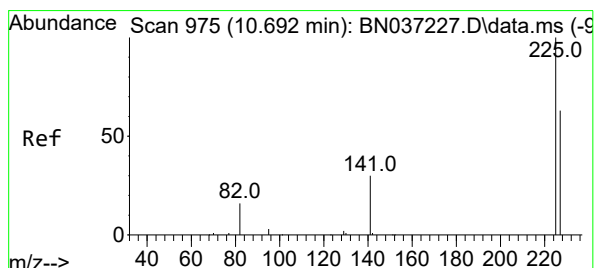
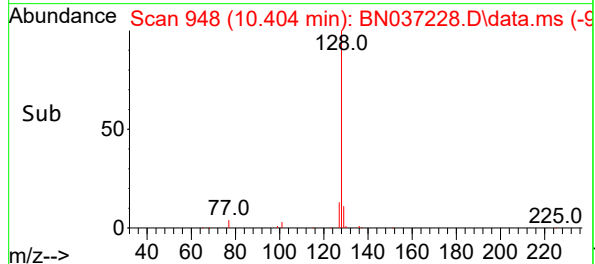
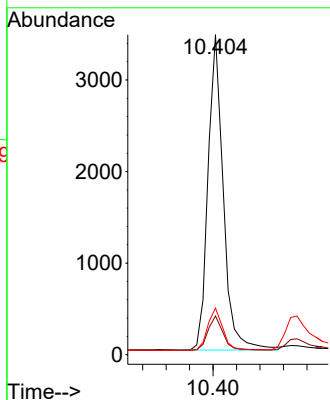
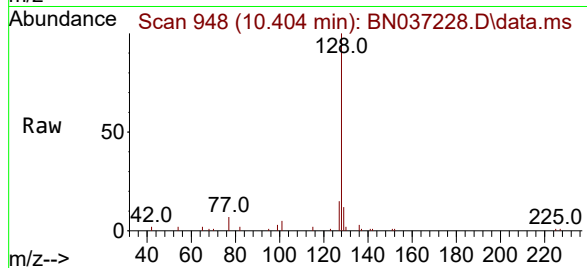




#9  
Naphthalene  
Concen: 0.766 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

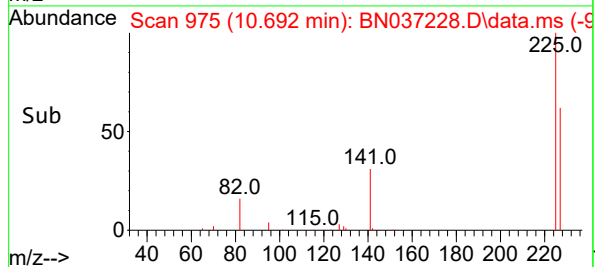
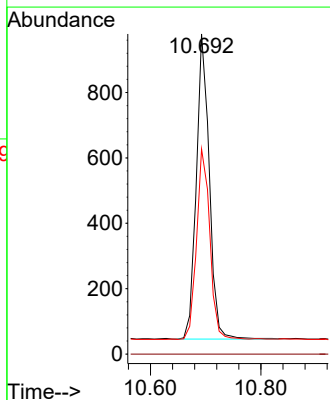
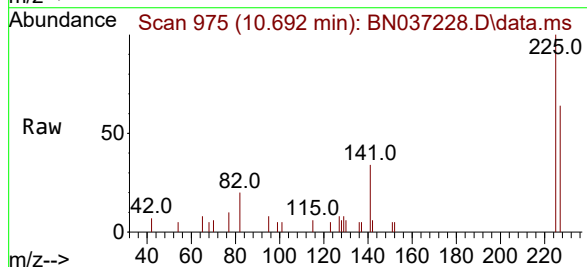
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

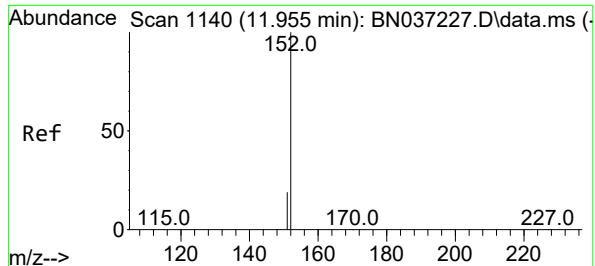
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 12.1  | 10.7  | 16.1  |
| 127     | 14.5  | 12.6  | 19.0  |



#10  
Hexachlorobutadiene  
Concen: 0.769 ng  
RT: 10.692 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 63.8  | 49.2  | 73.8  |

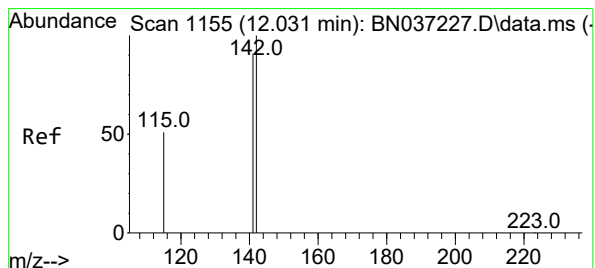
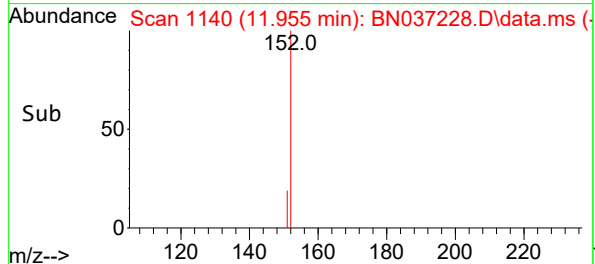
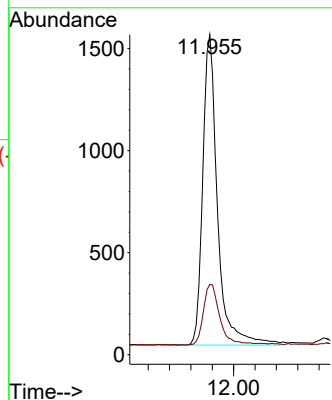
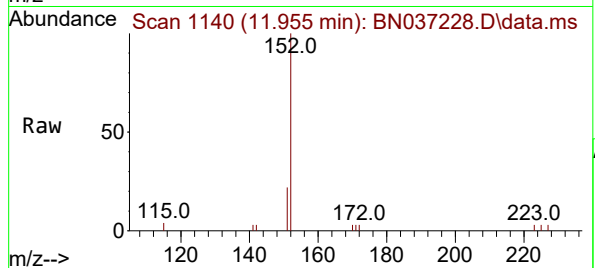




#11  
2-Methylnaphthalene-d10  
Concen: 0.775 ng  
RT: 11.955 min Scan# 1140  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

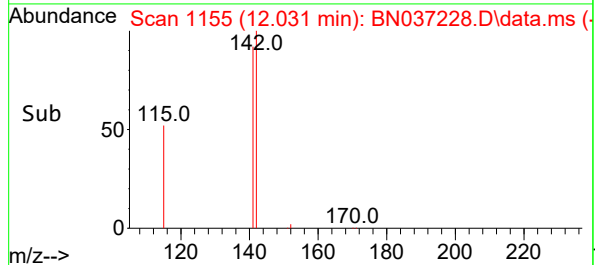
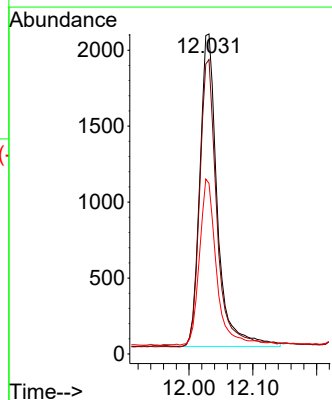
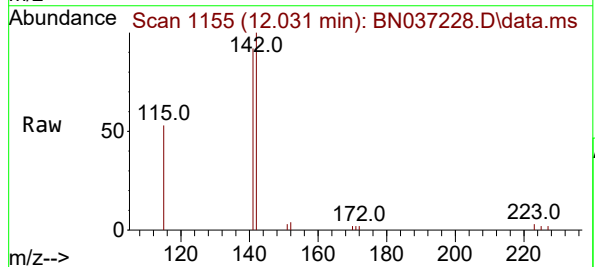
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

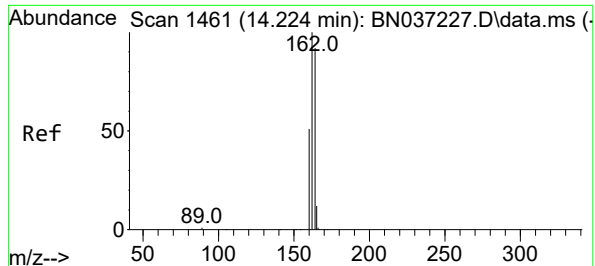
Tgt Ion:152 Resp: 2923  
Ion Ratio Lower Upper  
152 100  
151 21.5 17.9 26.9



#12  
2-Methylnaphthalene  
Concen: 0.794 ng  
RT: 12.031 min Scan# 1155  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

Tgt Ion:142 Resp: 3926  
Ion Ratio Lower Upper  
142 100  
141 92.0 73.0 109.6  
115 53.3 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

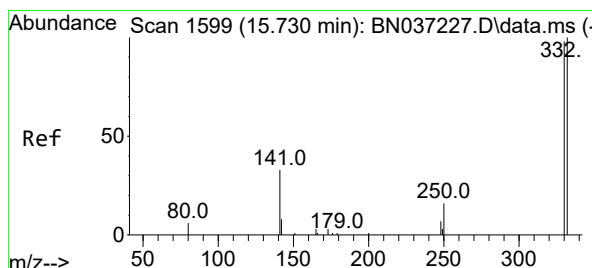
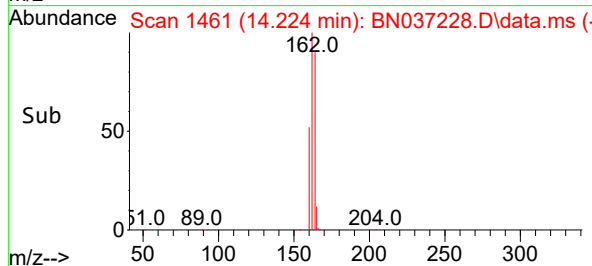
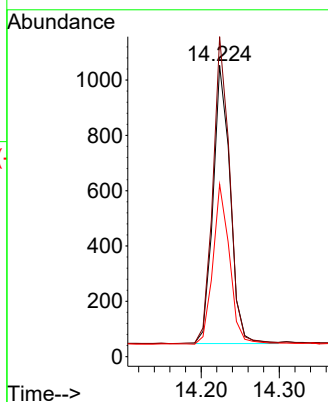
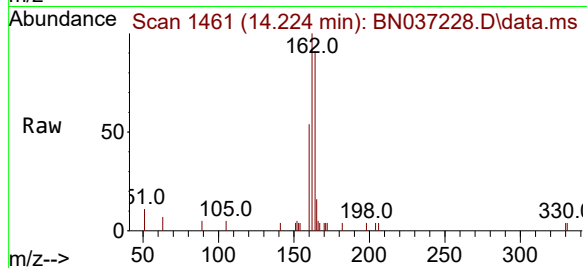
Tgt Ion:164 Resp: 1528

Ion Ratio Lower Upper

164 100

162 109.9 86.7 130.1

160 59.2 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.826 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

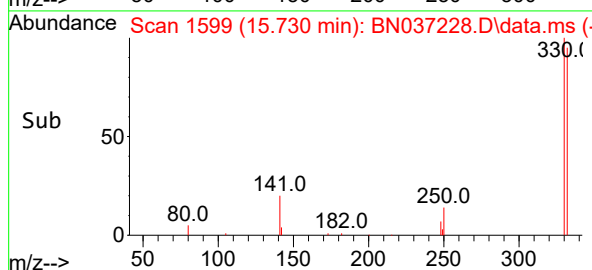
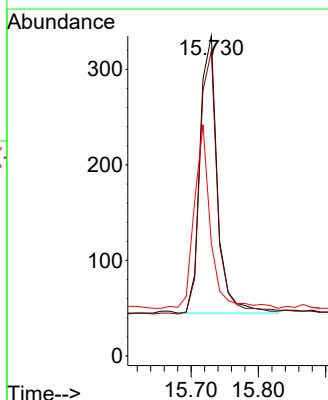
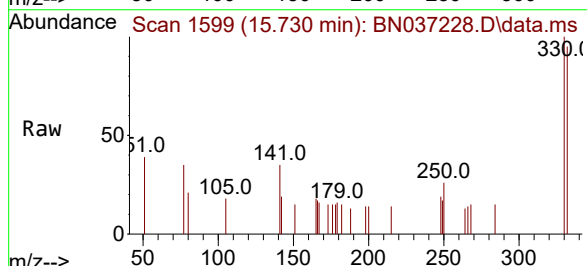
Tgt Ion:330 Resp: 524

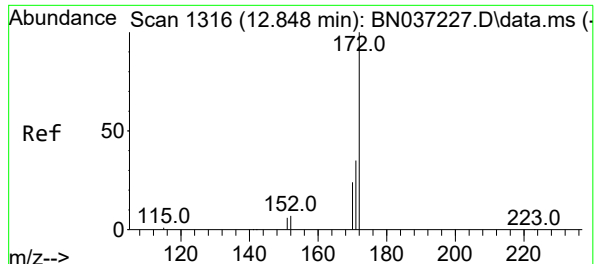
Ion Ratio Lower Upper

330 100

332 98.1 74.9 112.3

141 61.5 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.789 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

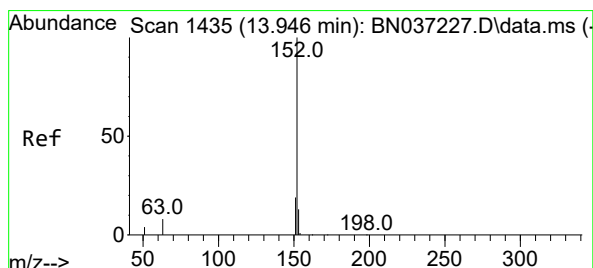
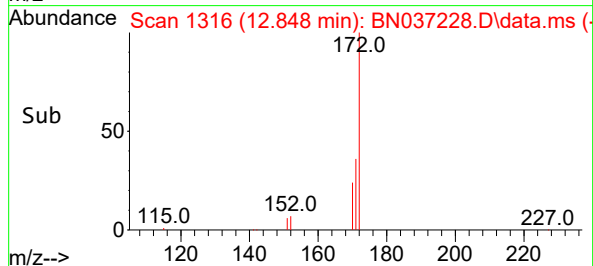
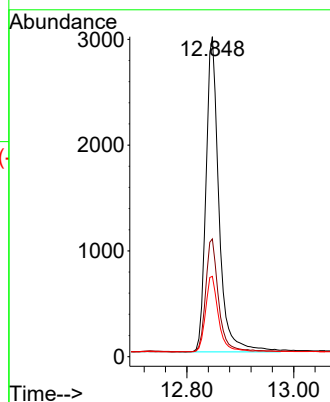
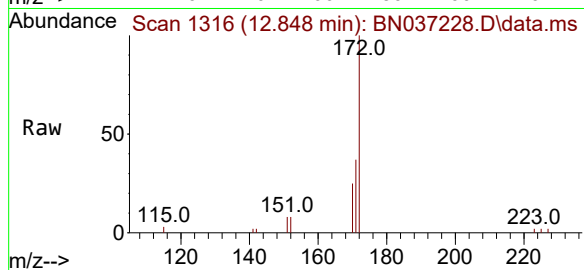
Tgt Ion:172 Resp: 5066

Ion Ratio Lower Upper

172 100

171 36.8 29.8 44.8

170 25.1 21.1 31.7



#16

Acenaphthylene

Concen: 0.781 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

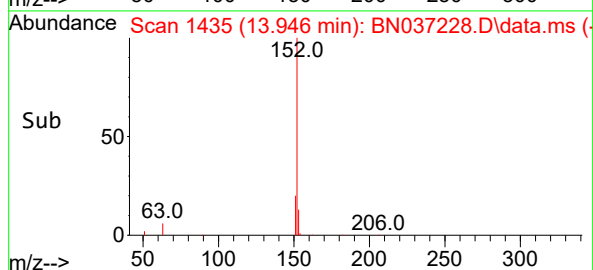
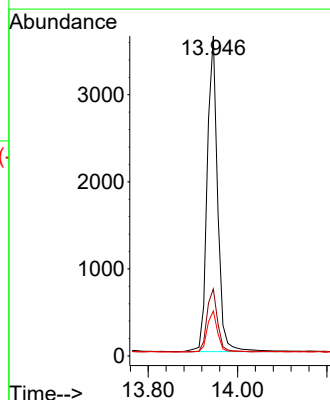
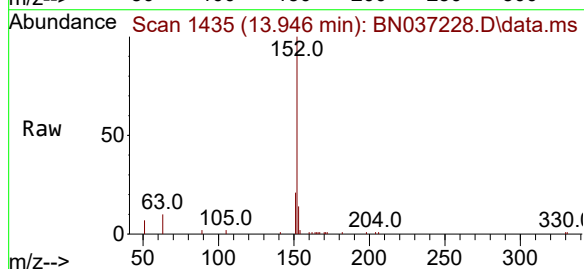
Tgt Ion:152 Resp: 5851

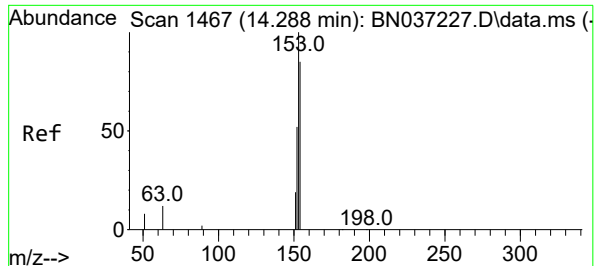
Ion Ratio Lower Upper

152 100

151 20.1 15.7 23.5

153 12.9 10.7 16.1





#17

Acenaphthene

Concen: 0.778 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

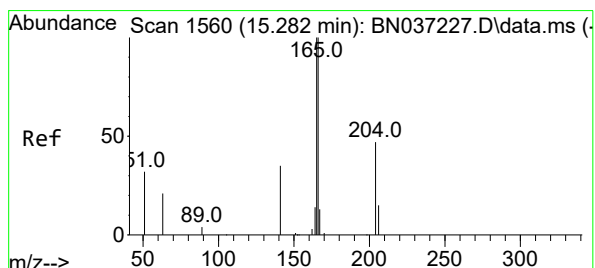
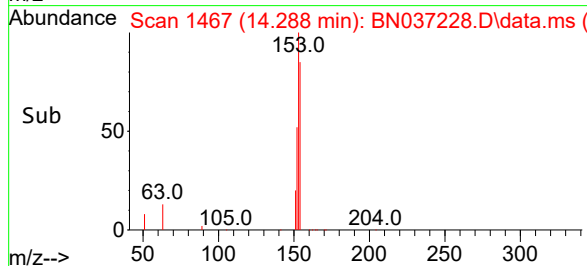
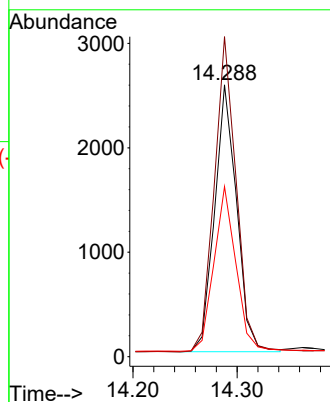
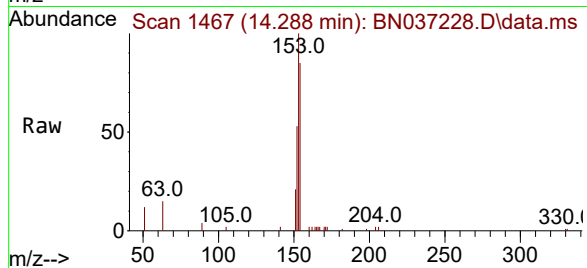
Tgt Ion:154 Resp: 3758

Ion Ratio Lower Upper

154 100

153 117.6 94.6 141.8

152 62.3 49.6 74.4



#18

Fluorene

Concen: 0.792 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

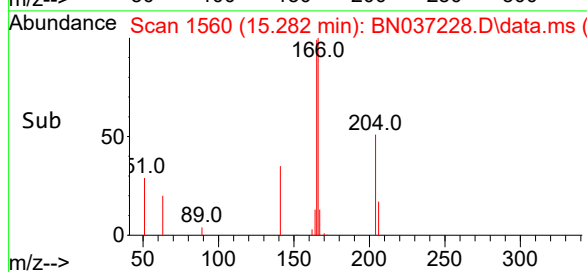
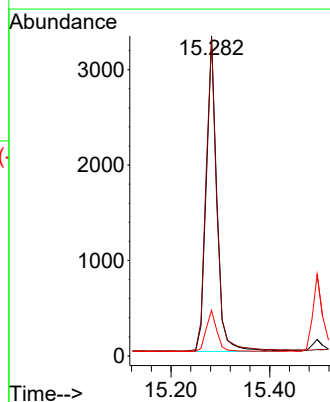
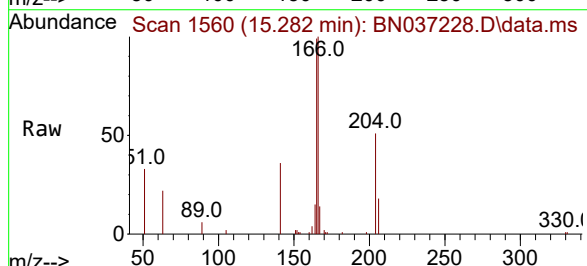
Tgt Ion:166 Resp: 4919

Ion Ratio Lower Upper

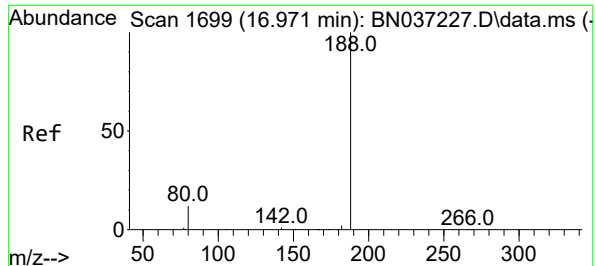
166 100

165 101.1 79.8 119.6

167 13.5 10.8 16.2







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

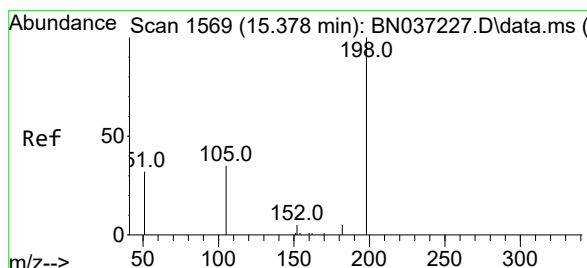
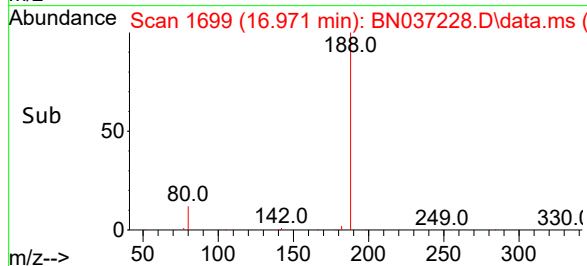
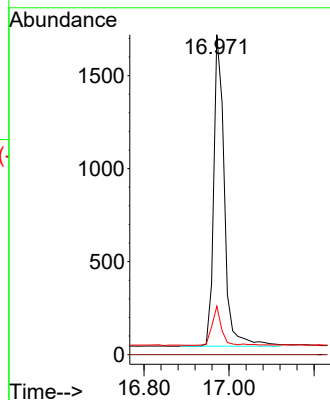
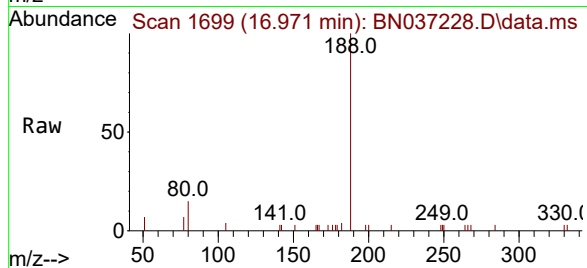
Tgt Ion:188 Resp: 2916

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.762 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

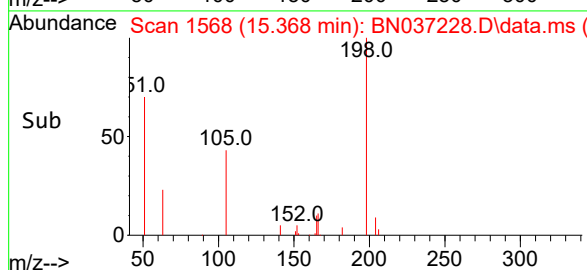
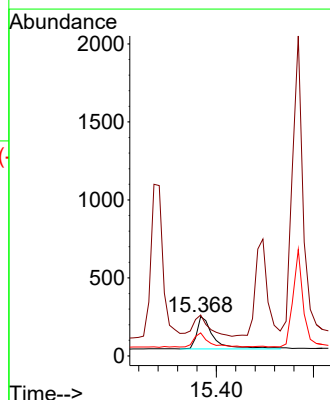
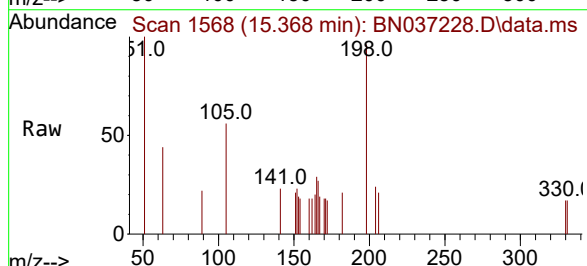
Tgt Ion:198 Resp: 499

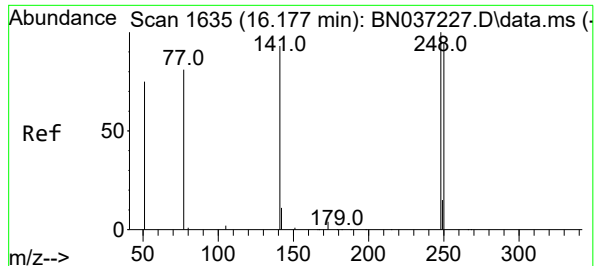
Ion Ratio Lower Upper

198 100

51 104.0 111.2 166.8#

105 58.3 54.0 81.0





#21

4-Bromophenyl-phenylether

Concen: 0.786 ng

RT: 16.177 min Scan# 1635

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

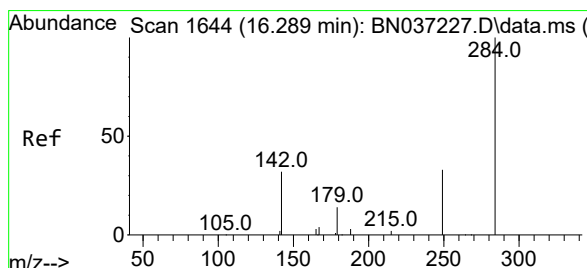
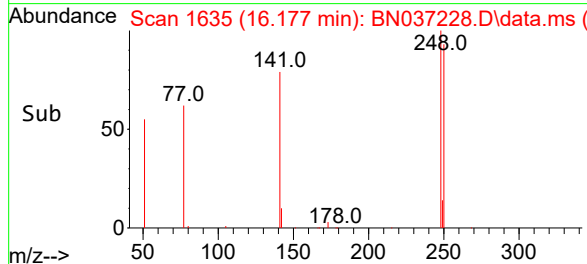
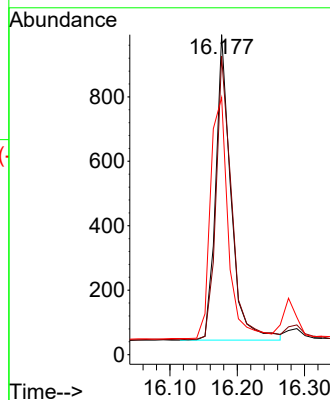
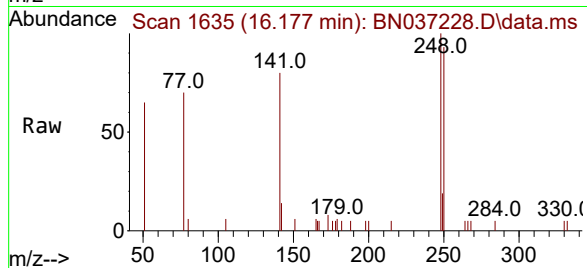
Tgt Ion:248 Resp: 1493

Ion Ratio Lower Upper

248 100

250 93.3 76.8 115.2

141 80.4 75.6 113.4



#22

Hexachlorobenzene

Concen: 0.751 ng

RT: 16.289 min Scan# 1644

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

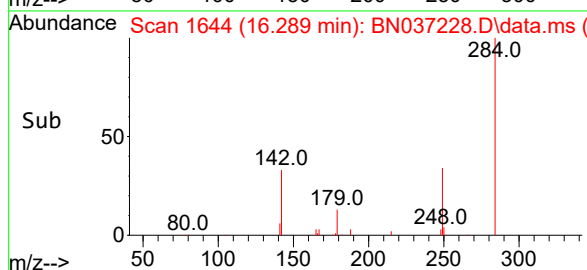
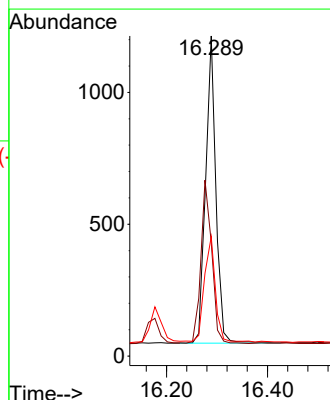
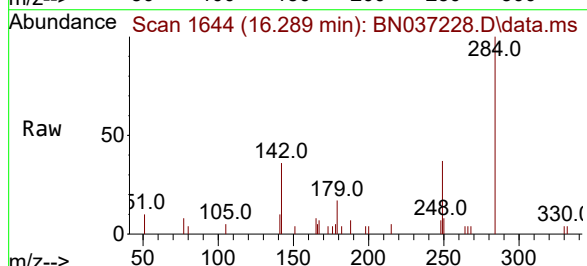
Tgt Ion:284 Resp: 1655

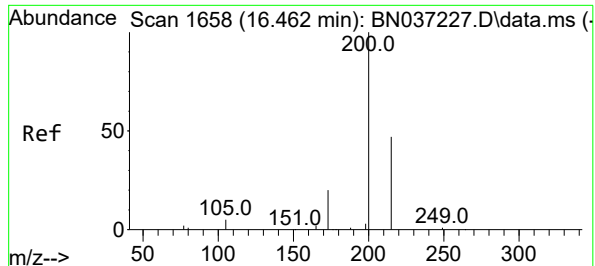
Ion Ratio Lower Upper

284 100

142 56.3 43.8 65.6

249 37.4 28.4 42.6





#23

Atrazine

Concen: 0.783 ng

RT: 16.450 min Scan# 1

Delta R.T. -0.012 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

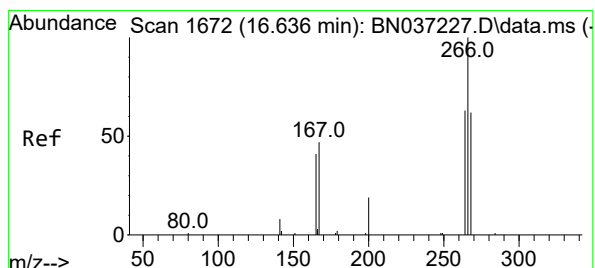
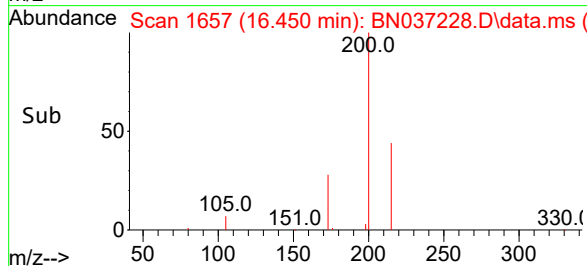
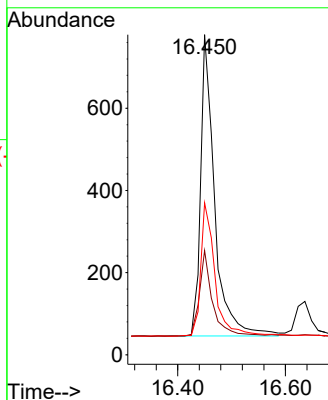
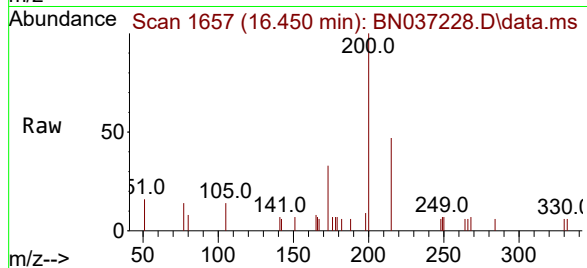
Tgt Ion:200 Resp: 1327

Ion Ratio Lower Upper

200 100

173 32.6 25.1 37.7

215 47.5 43.7 65.5



#24

Pentachlorophenol

Concen: 0.741 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

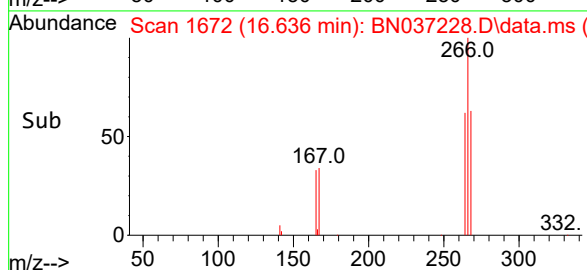
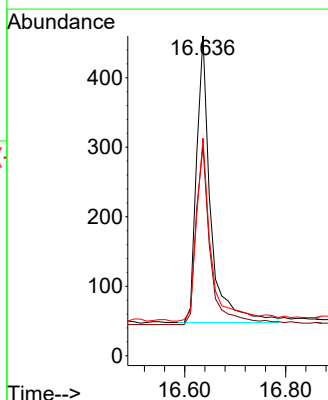
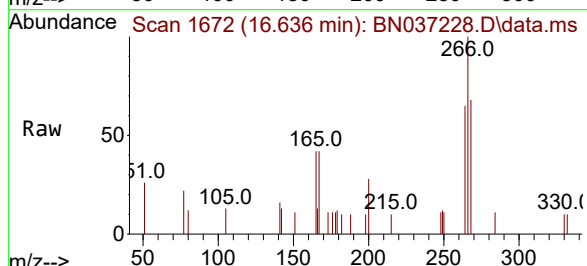
Tgt Ion:266 Resp: 800

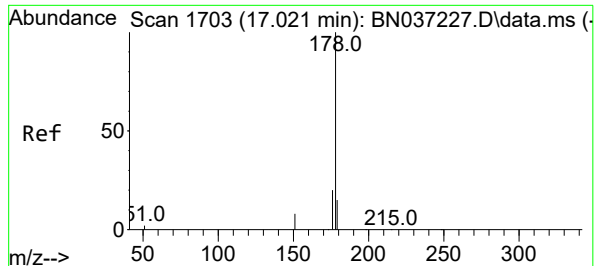
Ion Ratio Lower Upper

266 100

264 63.2 49.2 73.8

268 66.6 53.4 80.2

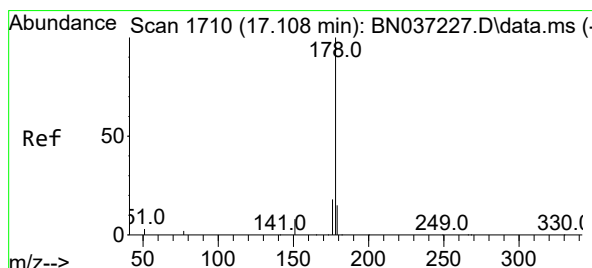
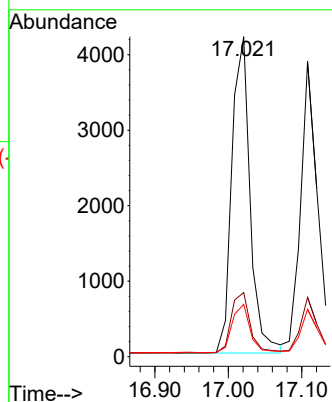
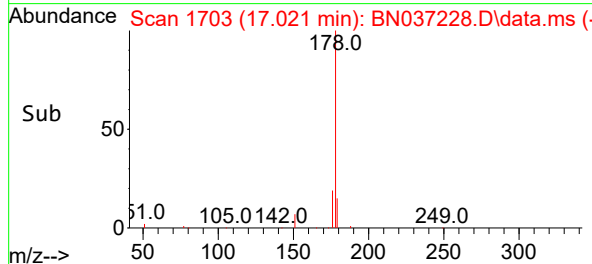
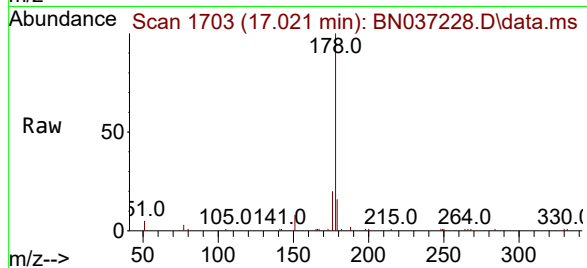




#25  
Phenanthrene  
Concen: 0.781 ng  
RT: 17.021 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

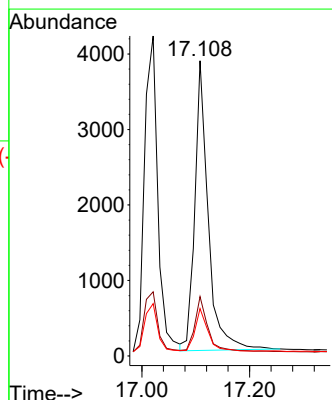
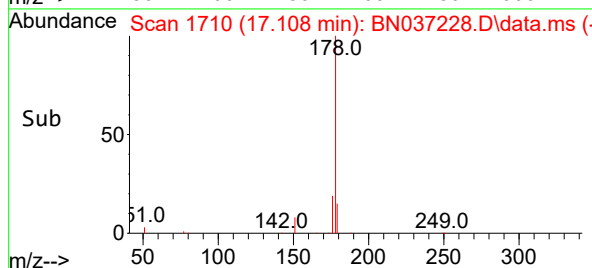
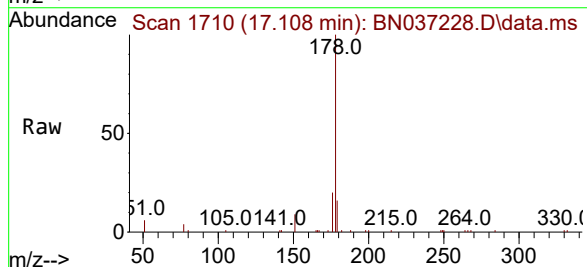
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

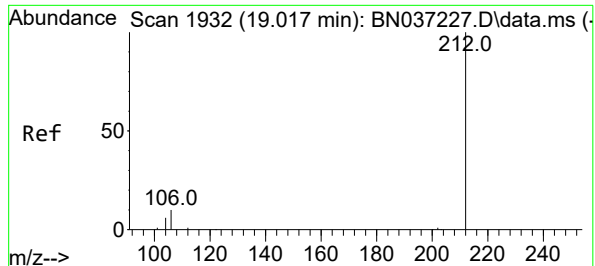
Tgt Ion:178 Resp: 7220  
Ion Ratio Lower Upper  
178 100  
176 19.9 16.3 24.5  
179 15.0 12.6 18.8



#26  
Anthracene  
Concen: 0.784 ng  
RT: 17.108 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

Tgt Ion:178 Resp: 6635  
Ion Ratio Lower Upper  
178 100  
176 18.8 15.1 22.7  
179 14.3 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.777 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.005 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

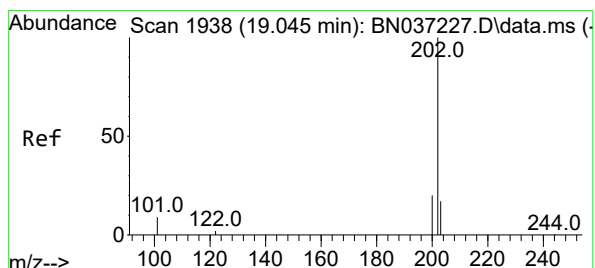
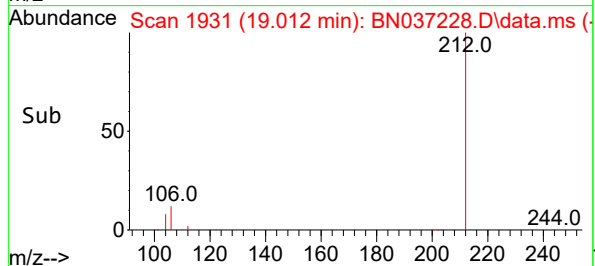
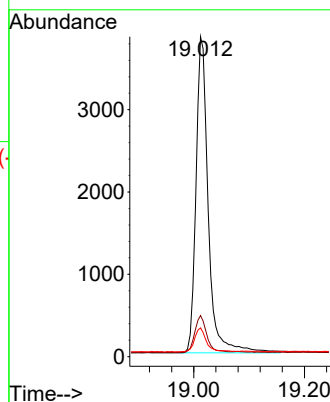
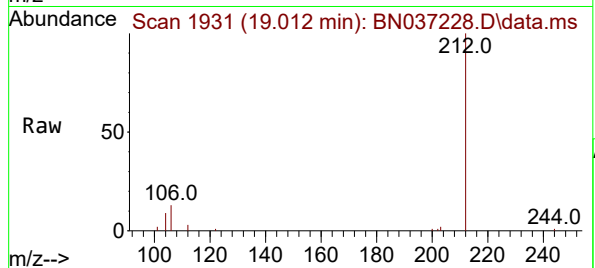
Tgt Ion:212 Resp: 5930

Ion Ratio Lower Upper

212 100

106 11.3 9.3 13.9

104 7.3 5.7 8.5



#28

Fluoranthene

Concen: 0.781 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

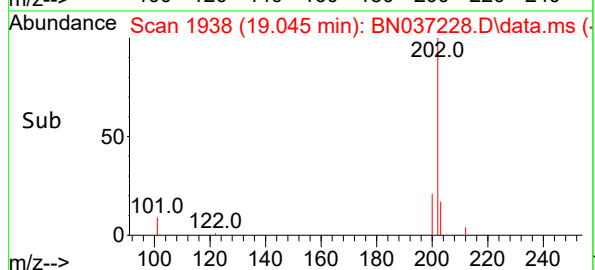
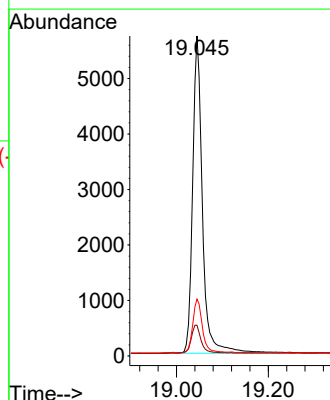
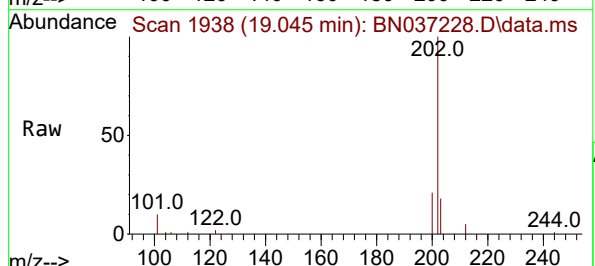
Tgt Ion:202 Resp: 8450

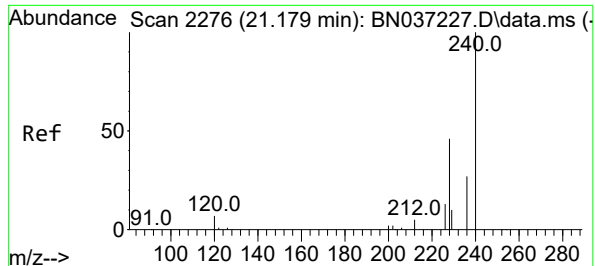
Ion Ratio Lower Upper

202 100

101 9.3 7.1 10.7

203 16.6 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

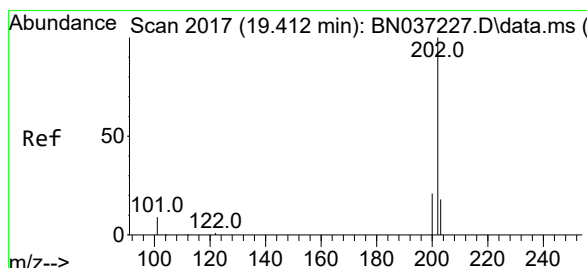
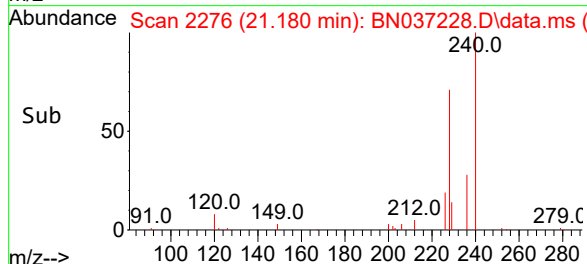
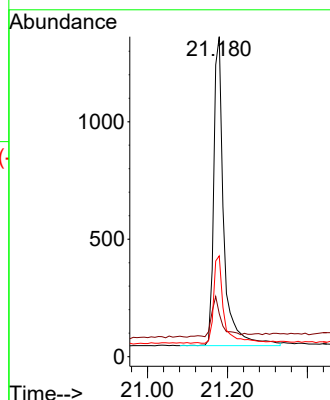
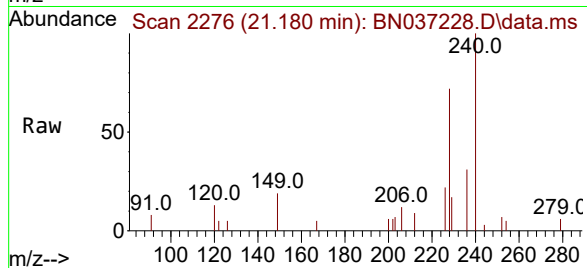
Tgt Ion:240 Resp: 2294

Ion Ratio Lower Upper

240 100

120 13.4 11.3 16.9

236 31.5 24.4 36.6



#30

Pyrene

Concen: 0.787 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

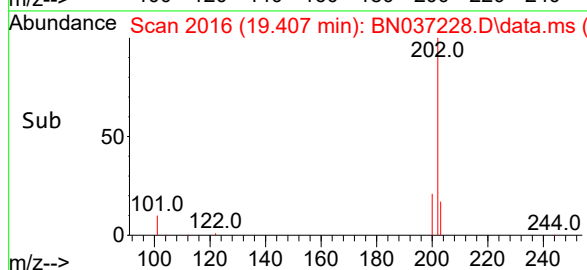
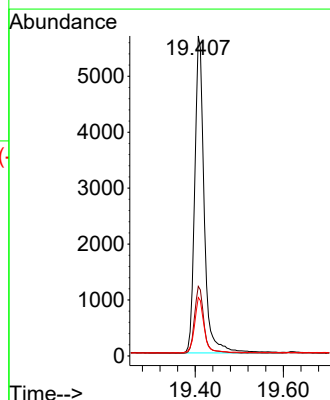
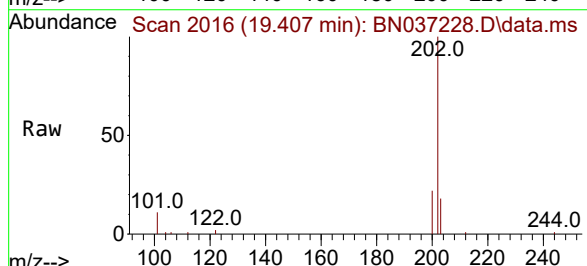
Tgt Ion:202 Resp: 8483

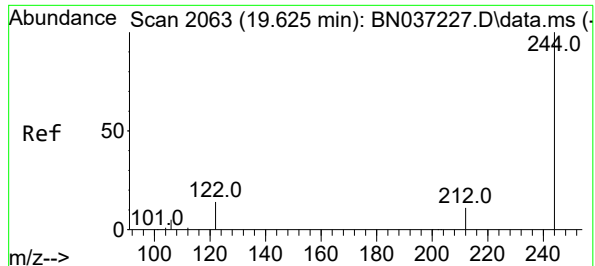
Ion Ratio Lower Upper

202 100

200 21.1 17.2 25.8

203 17.4 14.3 21.5

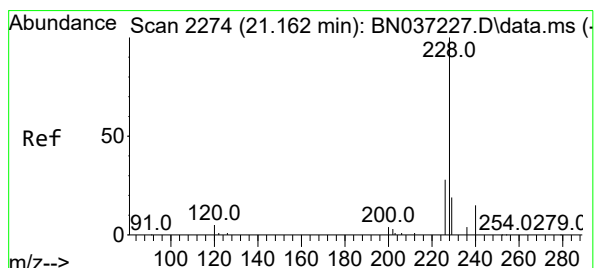
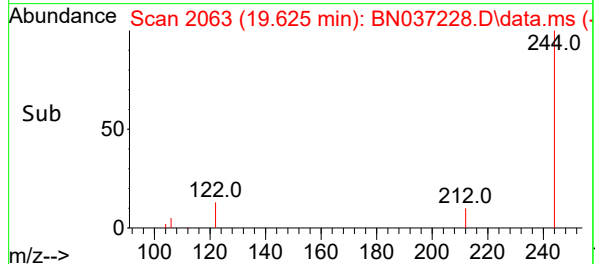
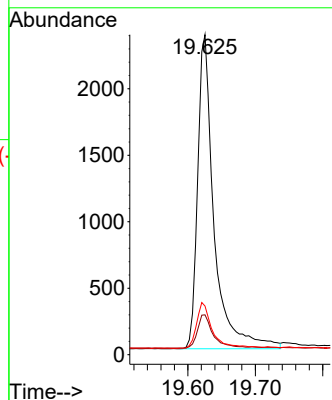
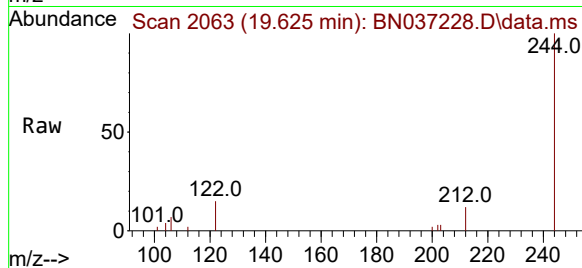




#31  
Terphenyl-d14  
Concen: 0.770 ng  
RT: 19.625 min Scan# 2063  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

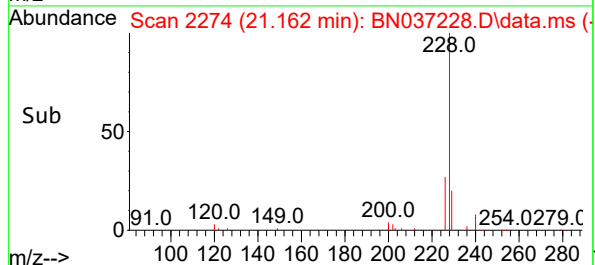
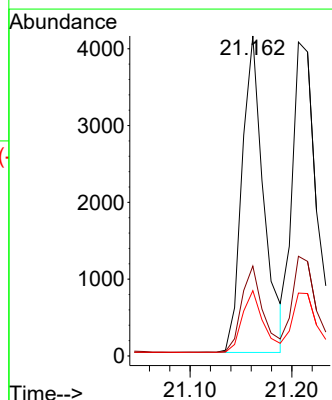
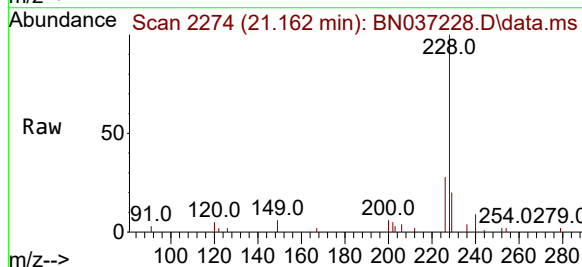
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.8

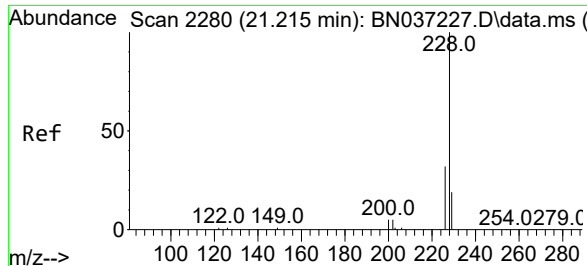
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 12.5  | 12.2  | 18.2  |
| 122     | 15.2  | 14.3  | 21.5  |



#32  
Benzo(a)anthracene  
Concen: 0.789 ng  
RT: 21.162 min Scan# 2274  
Delta R.T. 0.000 min  
Lab File: BN037228.D  
Acq: 13 Jun 2025 15:22

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 228     | 100   |       |       |
| 226     | 28.1  | 23.8  | 35.8  |
| 229     | 20.4  | 17.0  | 25.4  |





#33

Chrysene

Concen: 0.769 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

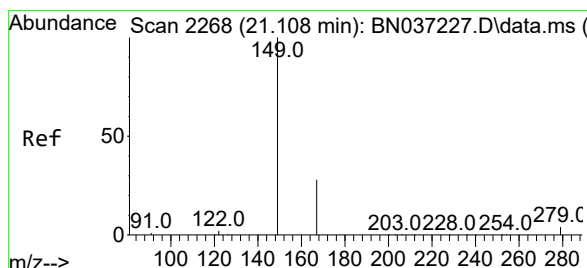
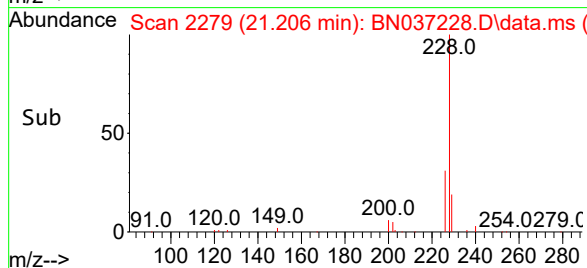
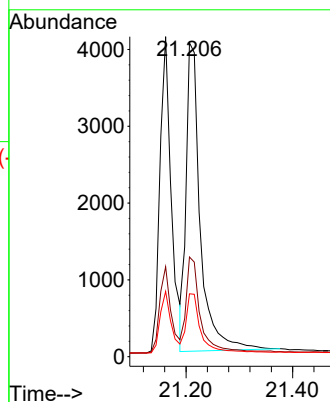
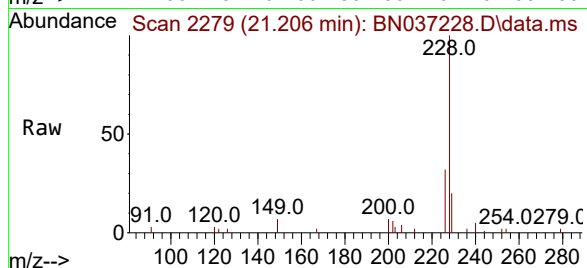
Tgt Ion:228 Resp: 7421

Ion Ratio Lower Upper

228 100

226 31.8 25.8 38.6

229 20.0 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.796 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

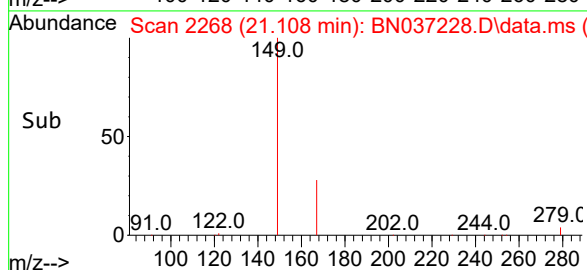
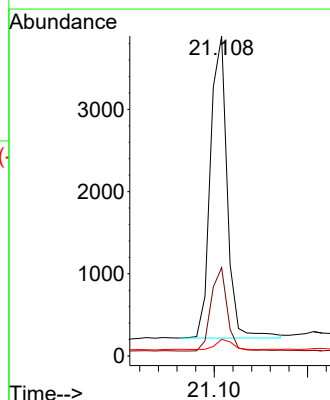
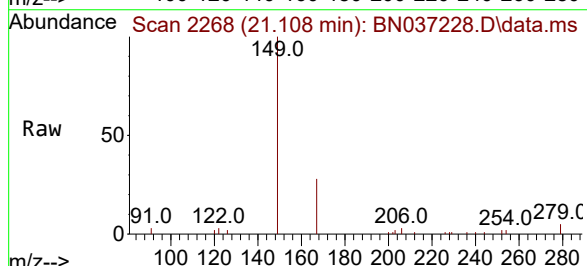
Tgt Ion:149 Resp: 4590

Ion Ratio Lower Upper

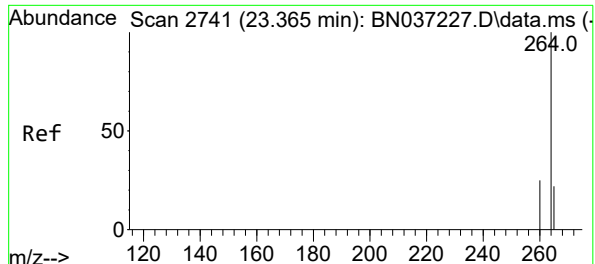
149 100

167 26.5 21.3 31.9

279 3.4 3.3 4.9







#35

Perylene-d12

Concen: 0.400 ng

RT: 23.365 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDIC0.8

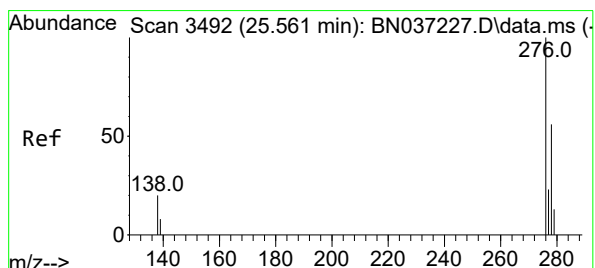
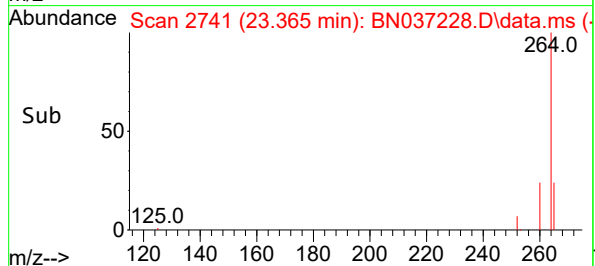
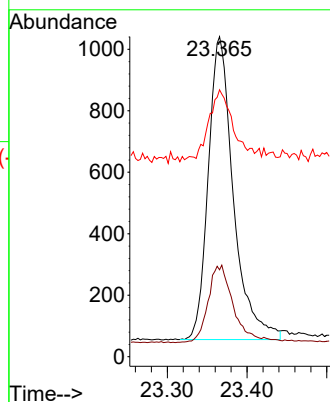
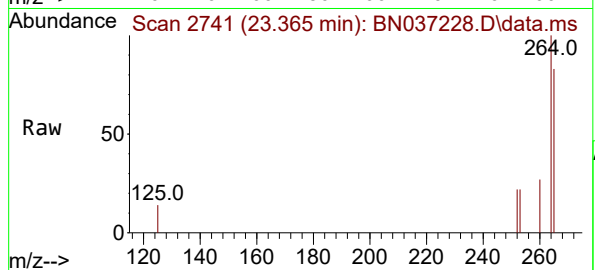
Tgt Ion:264 Resp: 2157

Ion Ratio Lower Upper

264 100

260 27.2 22.8 34.2

265 83.4 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.737 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.009 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

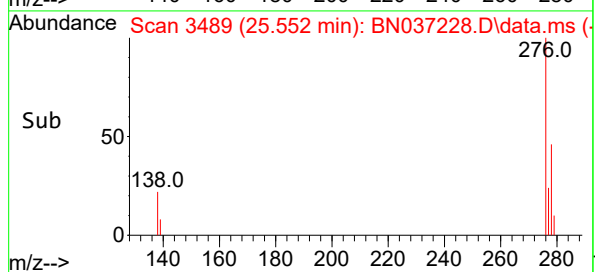
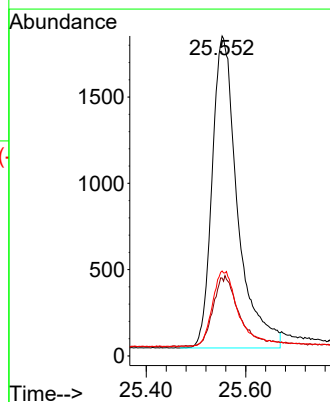
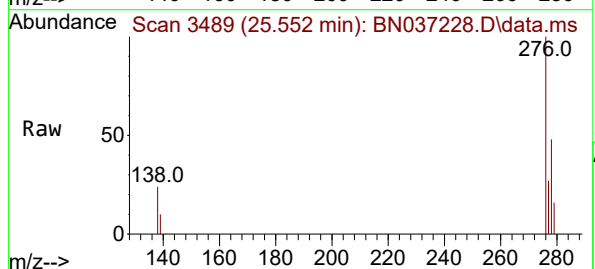
Tgt Ion:276 Resp: 6412

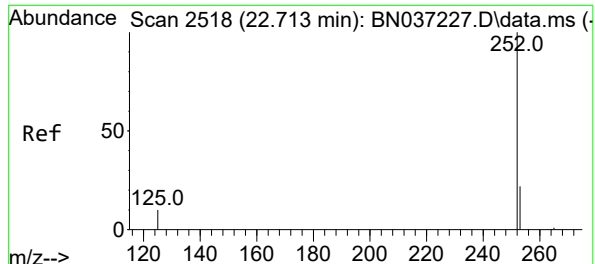
Ion Ratio Lower Upper

276 100

138 9.5 16.8 25.2#

277 24.2 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.796 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

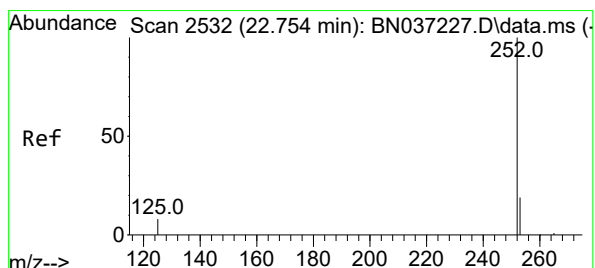
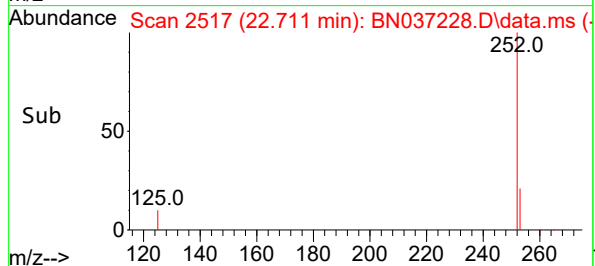
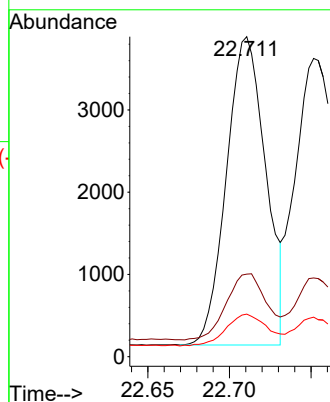
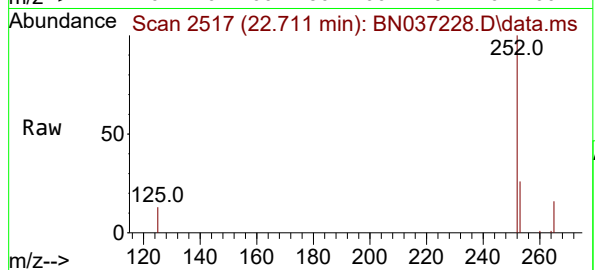
Tgt Ion:252 Resp: 6280

Ion Ratio Lower Upper

252 100

253 25.8 24.9 37.3

125 13.3 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.795 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

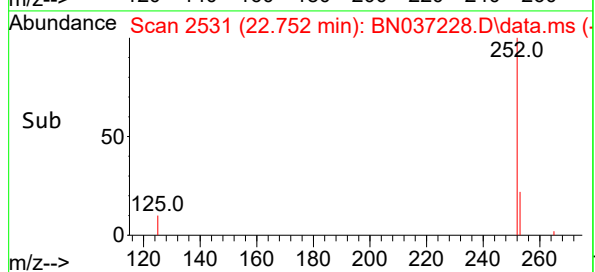
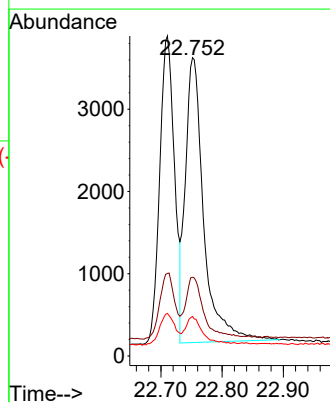
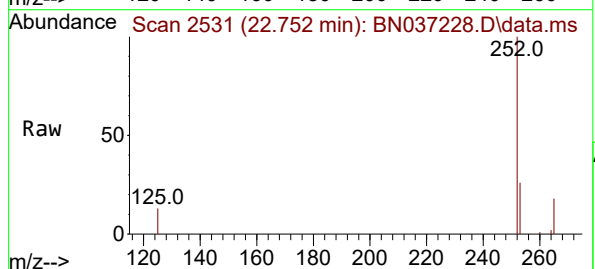
Tgt Ion:252 Resp: 7192

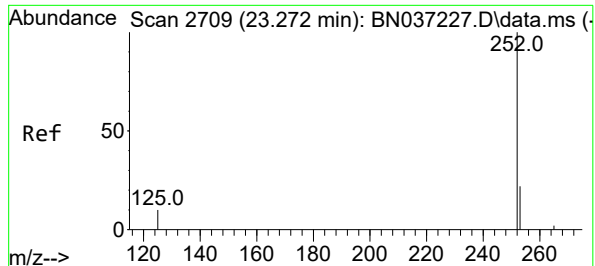
Ion Ratio Lower Upper

252 100

253 26.4 24.6 37.0

125 13.3 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.789 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8

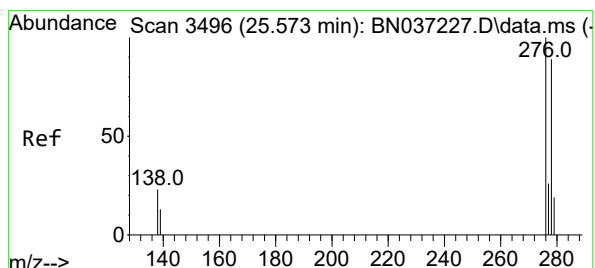
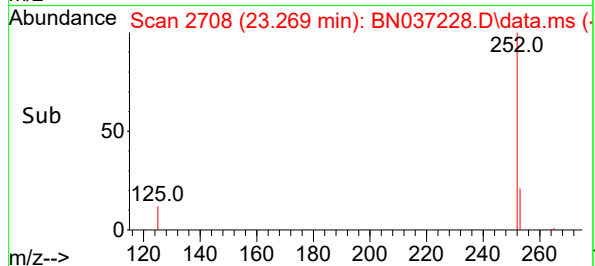
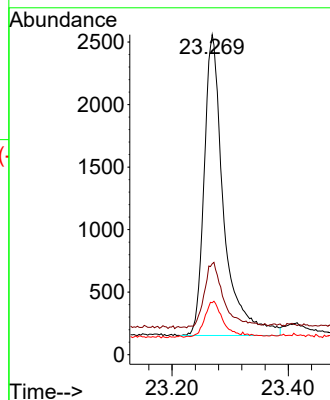
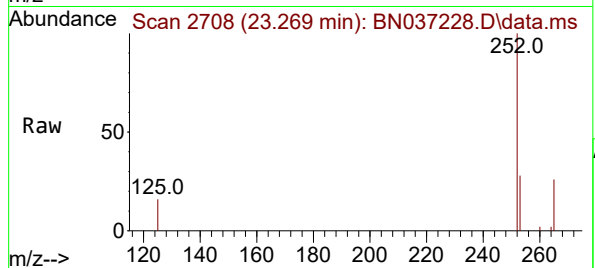
Tgt Ion:252 Resp: 5598

Ion Ratio Lower Upper

252 100

253 28.4 29.4 44.2#

125 16.3 16.2 24.2



#40

Dibenzo(a,h)anthracene

Concen: 0.736 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037228.D

Acq: 13 Jun 2025 15:22

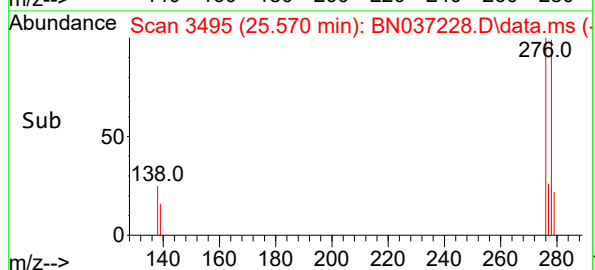
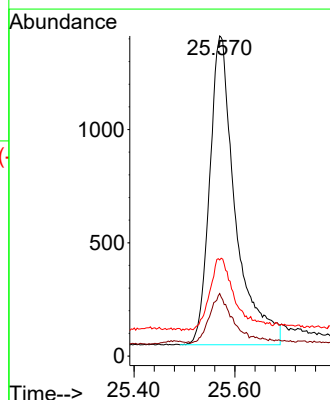
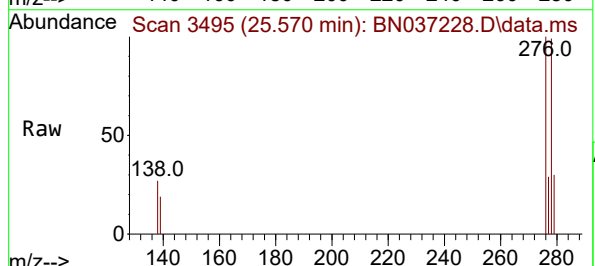
Tgt Ion:278 Resp: 4824

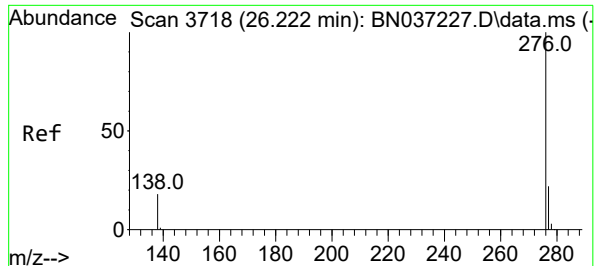
Ion Ratio Lower Upper

278 100

139 19.5 17.8 26.6

279 30.0 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 0.741 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037228.D

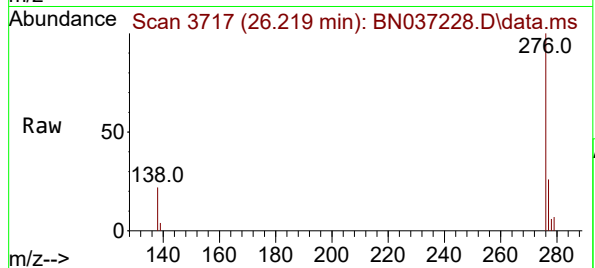
Acq: 13 Jun 2025 15:22

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.8



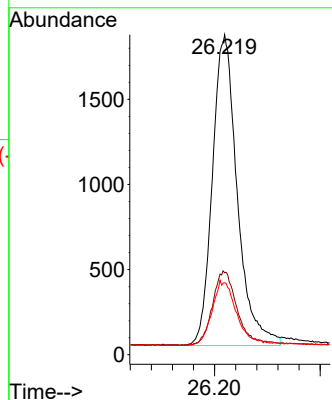
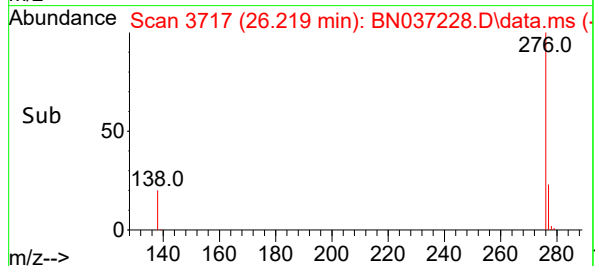
Tgt Ion:276 Resp: 5978

Ion Ratio Lower Upper

276 100

277 25.6 22.0 33.0

138 22.4 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037229.D  
 Acq On : 13 Jun 2025 15:59  
 Operator : RC/JU  
 Sample : SSTDICC1.6  
 Misc :  
 ALS Vial : 7 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC1.6

Quant Time: Jun 13 18:38:03 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:34:15 2025  
 Response via : Initial Calibration

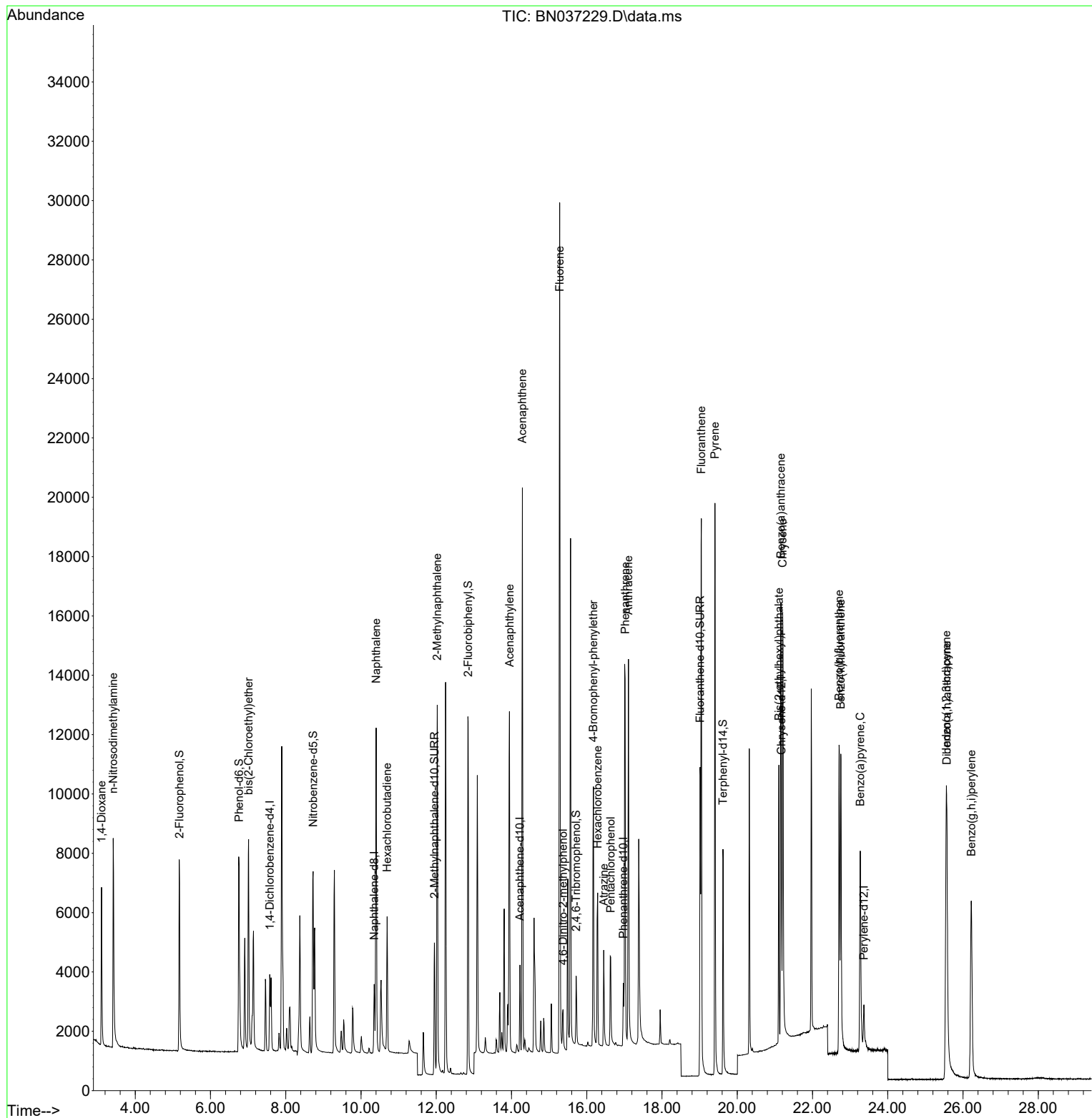
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1193     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.351 | 136  | 2881     | 0.400 | ng    | #-0.01    |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1539     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 16.971 | 188  | 2917     | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.171 | 240  | 2167     | 0.400 | ng    | # 0.00    |
| 35) Perylene-d12              | 23.366 | 264  | 2036     | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.177  | 112  | 4755     | 1.623 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.759  | 99   | 5480     | 1.774 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.728  | 82   | 5073     | 1.782 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 11.950 | 152  | 6642     | 1.718 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.718 | 330  | 1157     | 1.810 | ng    | -0.01     |
| 15) 2-Fluorobiphenyl          | 12.848 | 172  | 11216    | 1.734 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.012 | 212  | 12285    | 1.610 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.621 | 244  | 8579     | 1.751 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.104  | 88   | 2620     | 1.601 | ng    | Qvalue 93 |
| 3) n-Nitrosodimethylamine     | 3.415  | 42   | 6179     | 1.657 | ng    | # 97      |
| 6) bis(2-Chloroethyl)ether    | 7.012  | 93   | 5181     | 1.873 | ng    | 92        |
| 9) Naphthalene                | 10.404 | 128  | 13925    | 1.669 | ng    | 96        |
| 10) Hexachlorobutadiene       | 10.693 | 225  | 3281     | 1.617 | ng    | # 96      |
| 12) 2-Methylnaphthalene       | 12.026 | 142  | 8865     | 1.748 | ng    | 99        |
| 16) Acenaphthylene            | 13.946 | 152  | 12787    | 1.696 | ng    | 99        |
| 17) Acenaphthene              | 14.288 | 154  | 8258     | 1.696 | ng    | 99        |
| 18) Fluorene                  | 15.282 | 166  | 10814    | 1.730 | ng    | 100       |
| 20) 4,6-Dinitro-2-methylph... | 15.368 | 198  | 1171     | 1.596 | ng    | # 47      |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 3248     | 1.709 | ng    | # 85      |
| 22) Hexachlorobenzene         | 16.289 | 284  | 3460     | 1.570 | ng    | 98        |
| 23) Atrazine                  | 16.450 | 200  | 2809     | 1.657 | ng    | 90        |
| 24) Pentachlorophenol         | 16.636 | 266  | 1800     | 1.667 | ng    | 97        |
| 25) Phenanthrene              | 17.021 | 178  | 15448    | 1.670 | ng    | 99        |
| 26) Anthracene                | 17.108 | 178  | 14243    | 1.682 | ng    | 100       |
| 28) Fluoranthene              | 19.045 | 202  | 17611    | 1.626 | ng    | 99        |
| 30) Pyrene                    | 19.407 | 202  | 17479    | 1.716 | ng    | 100       |
| 32) Benzo(a)anthracene        | 21.162 | 228  | 13105    | 1.791 | ng    | 97        |
| 33) Chrysene                  | 21.207 | 228  | 14835    | 1.627 | ng    | 98        |
| 34) Bis(2-ethylhexyl)phtha... | 21.108 | 149  | 8716     | 1.599 | ng    | 99        |
| 36) Indeno(1,2,3-cd)pyrene    | 25.555 | 276  | 13992    | 1.704 | ng    | 97        |
| 37) Benzo(b)fluoranthene      | 22.708 | 252  | 13177    | 1.769 | ng    | # 87      |
| 38) Benzo(k)fluoranthene      | 22.752 | 252  | 14311    | 1.675 | ng    | # 88      |
| 39) Benzo(a)pyrene            | 23.269 | 252  | 11458    | 1.710 | ng    | # 81      |
| 40) Dibenzo(a,h)anthracene    | 25.570 | 278  | 11091    | 1.793 | ng    | # 83      |
| 41) Benzo(g,h,i)perylene      | 26.219 | 276  | 12677    | 1.665 | ng    | 95        |

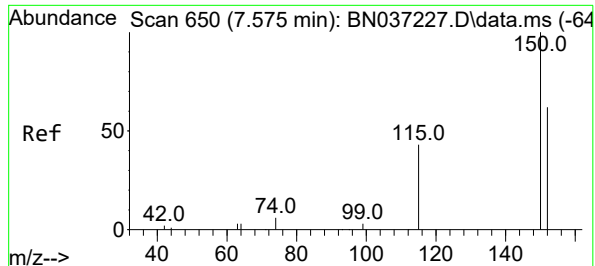
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037229.D  
Acq On : 13 Jun 2025 15:59  
Operator : RC/JU  
Sample : SSTDICC1.6  
Misc :  
ALS Vial : 7 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Quant Time: Jun 13 18:38:03 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:34:15 2025  
Response via : Initial Calibration

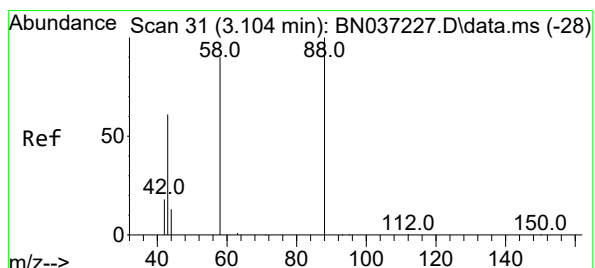
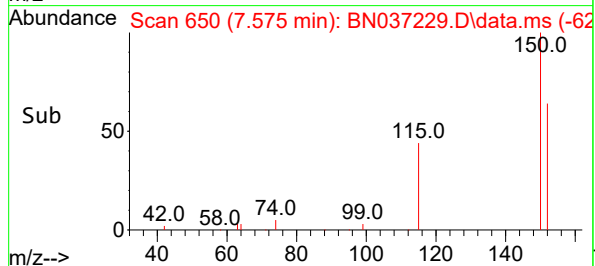
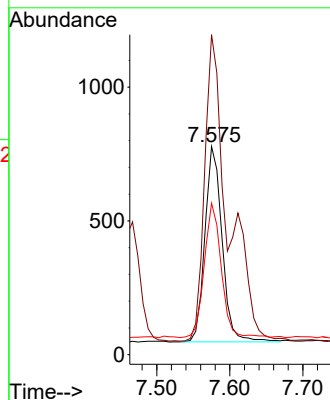
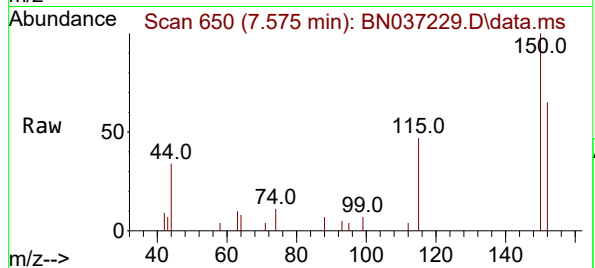




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

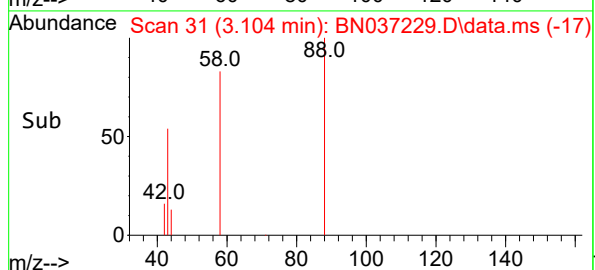
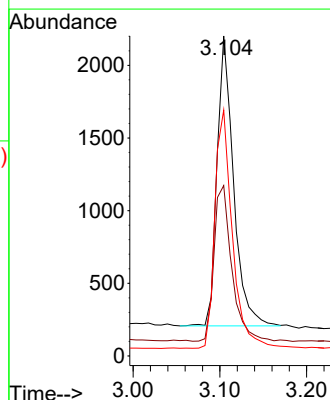
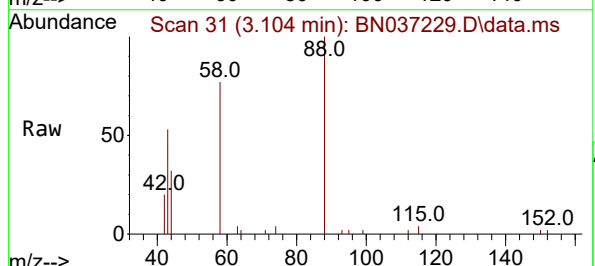
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

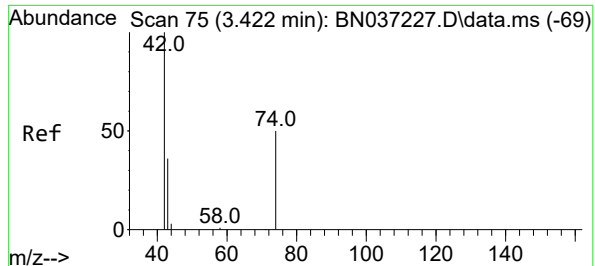
Tgt Ion:152 Resp: 1193  
Ion Ratio Lower Upper  
152 100  
150 153.7 125.2 187.8  
115 72.8 58.4 87.6



#2  
1,4-Dioxane  
Concen: 1.601 ng  
RT: 3.104 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

Tgt Ion: 88 Resp: 2620  
Ion Ratio Lower Upper  
88 100  
43 58.5 52.6 79.0  
58 87.4 73.5 110.3

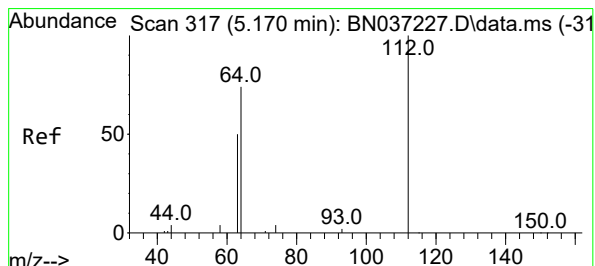
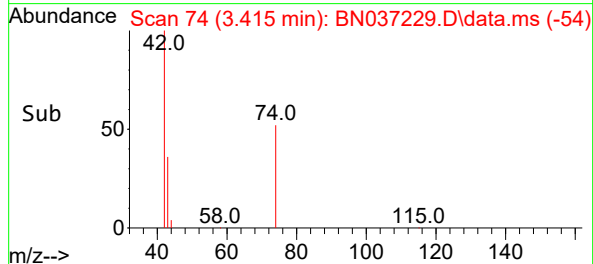
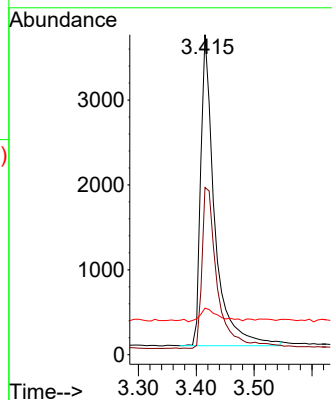
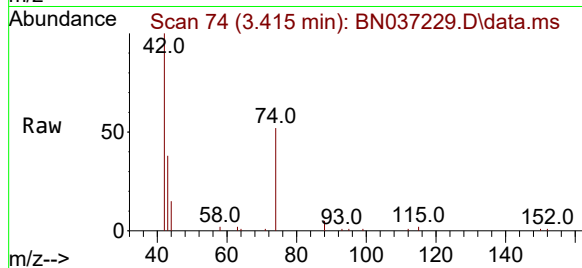




#3  
n-Nitrosodimethylamine  
Concen: 1.657 ng  
RT: 3.415 min Scan# 74  
Delta R.T. -0.007 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

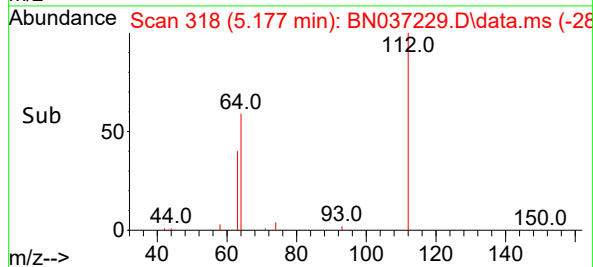
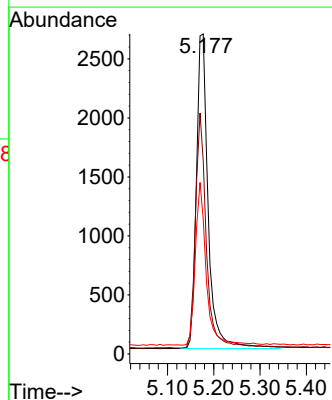
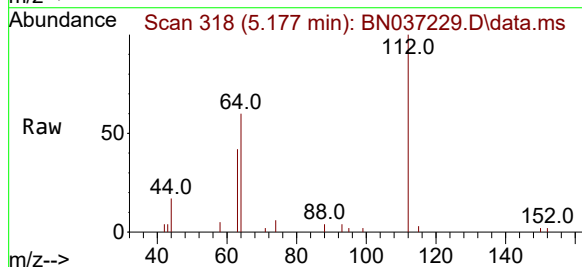
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

Tgt Ion: 42 Resp: 6179  
Ion Ratio Lower Upper  
42 100  
74 57.5 44.6 66.8  
44 5.7 3.5 5.3#

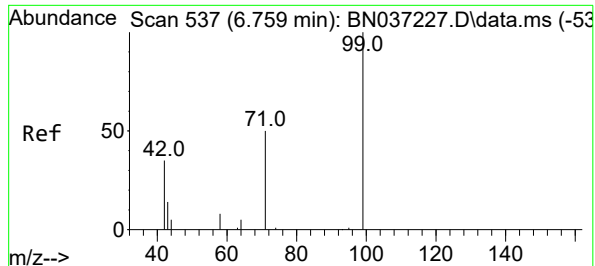


#4  
2-Fluorophenol  
Concen: 1.623 ng  
RT: 5.177 min Scan# 318  
Delta R.T. 0.007 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

Tgt Ion: 112 Resp: 4755  
Ion Ratio Lower Upper  
112 100  
64 69.7 57.2 85.8  
63 47.7 39.8 59.6



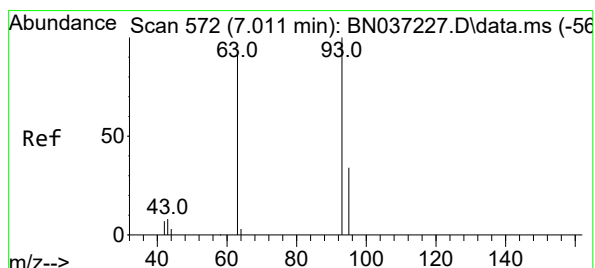
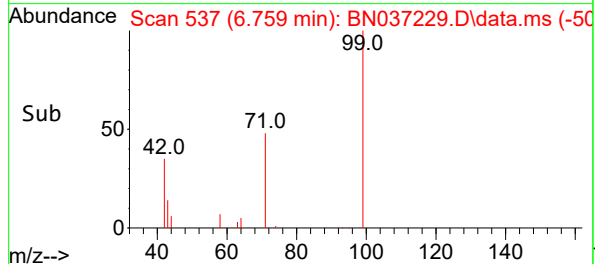
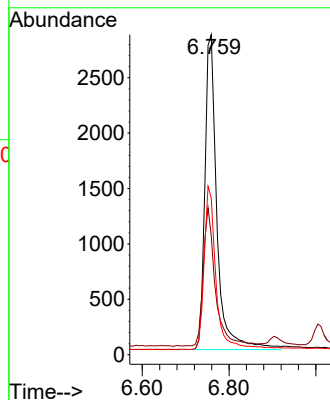
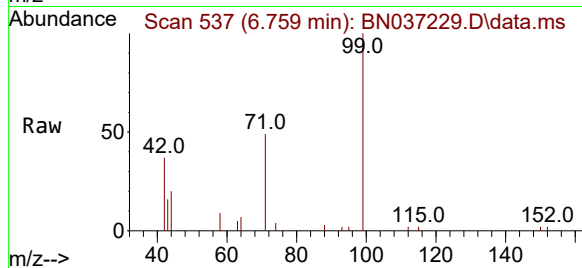




#5  
Phenol-d6  
Concen: 1.774 ng  
RT: 6.759 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

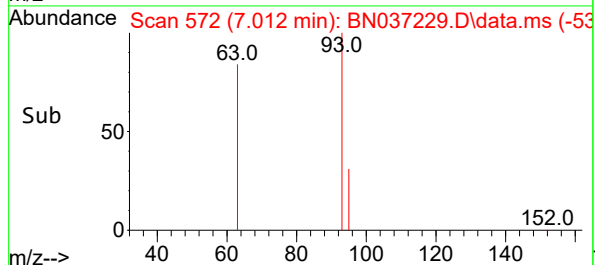
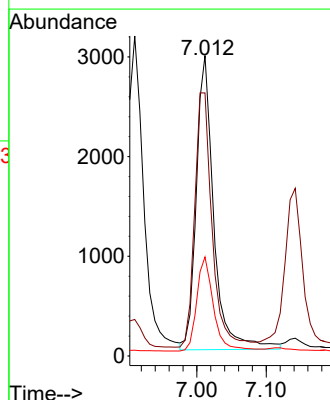
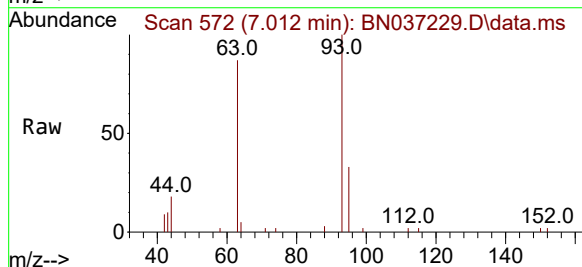
Instrument :  
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ClientSampleId :  
SSTDICC1.6

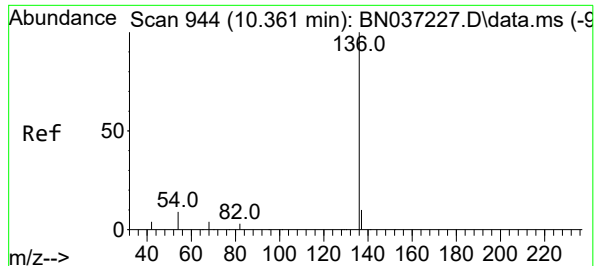
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 44.0  | 36.2  | 54.4  |
| 71      | 50.7  | 42.4  | 63.6  |



#6  
bis(2-Chloroethyl)ether  
Concen: 1.873 ng  
RT: 7.012 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 86.4  | 75.2  | 112.8 |
| 95      | 30.5  | 28.3  | 42.5  |

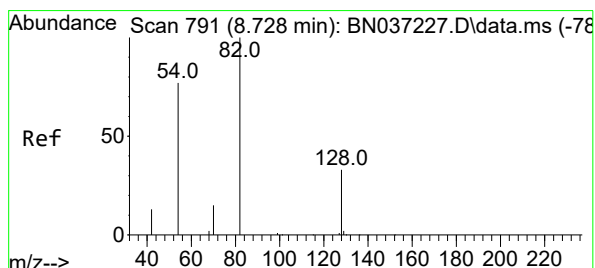
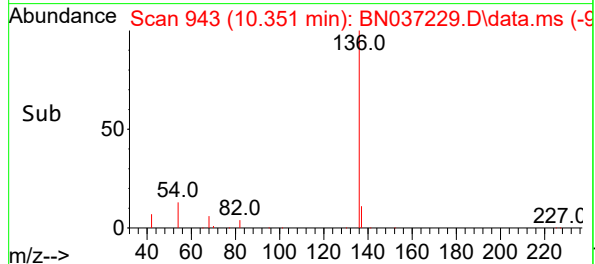
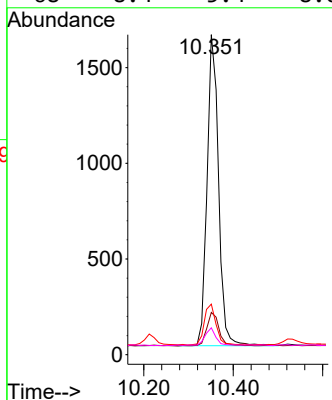
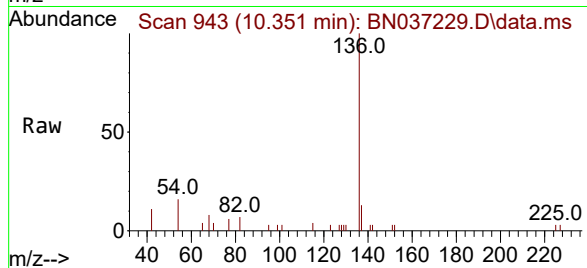




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 944  
Delta R.T. -0.010 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

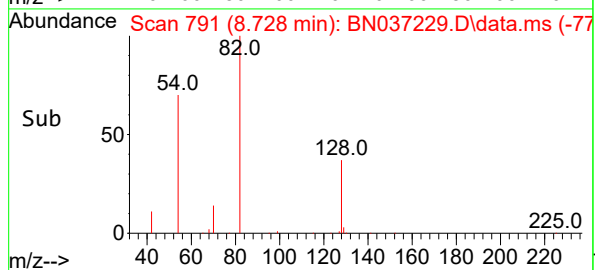
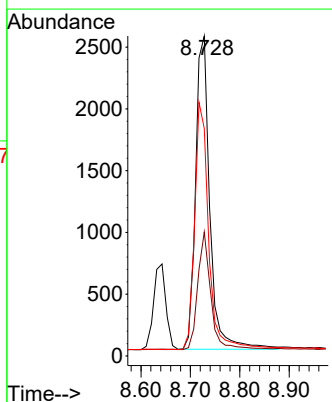
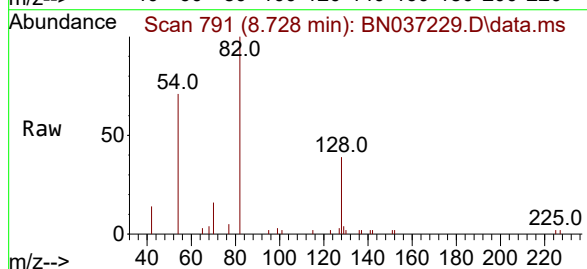
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

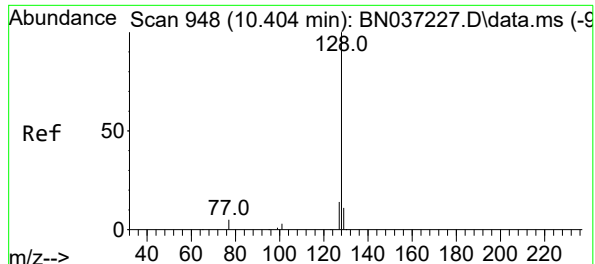
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 2881  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 13.2  | 10.6  | 15.8  |
| 54       | 15.8  | 9.2   | 13.8# |
| 68       | 8.4   | 5.4   | 8.0#  |



#8  
Nitrobenzene-d5  
Concen: 1.782 ng  
RT: 8.728 min Scan# 791  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 5073  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 38.7  | 31.2  | 46.8  |
| 54       | 71.1  | 63.3  | 94.9  |

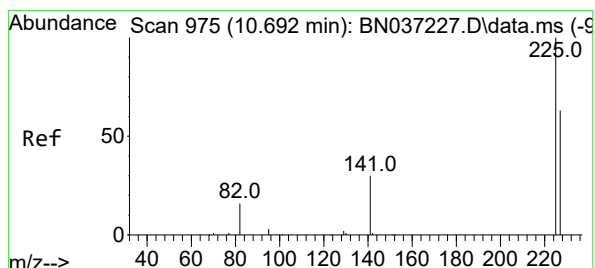
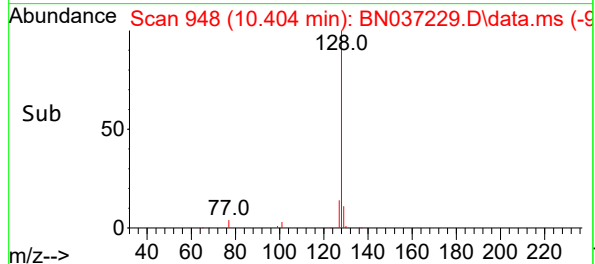
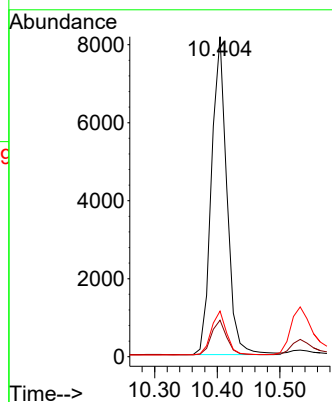
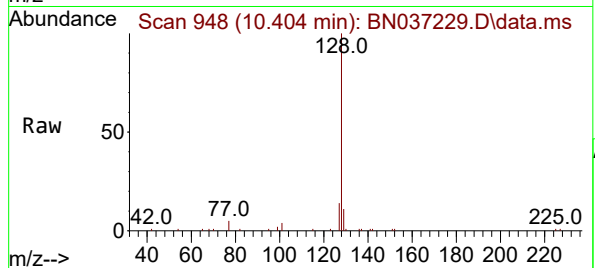




#9  
Naphthalene  
Concen: 1.669 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

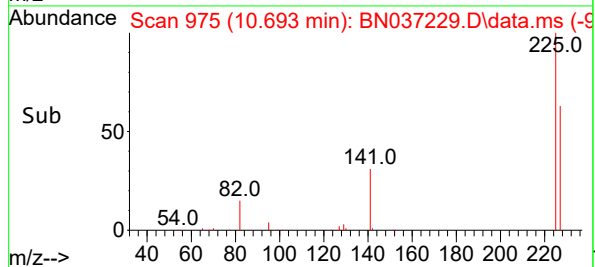
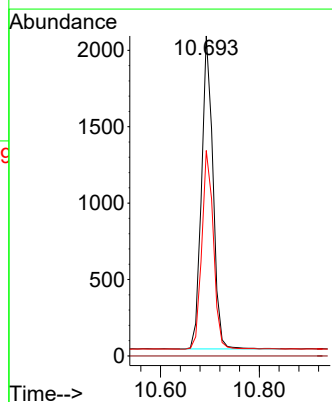
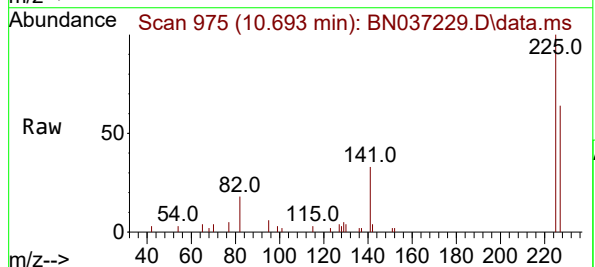
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

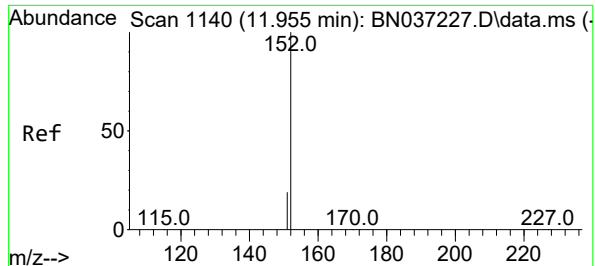
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 128     | 100   |       |       |
| 129     | 11.4  | 10.7  | 16.1  |
| 127     | 14.2  | 12.6  | 19.0  |



#10  
Hexachlorobutadiene  
Concen: 1.617 ng  
RT: 10.693 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 64.2  | 49.2  | 73.8  |

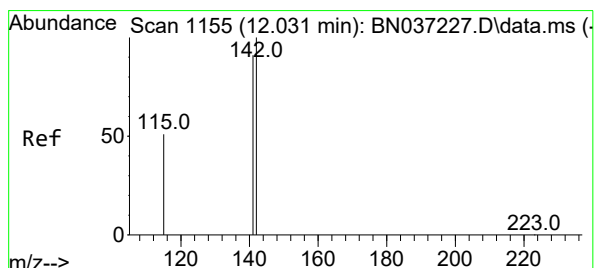
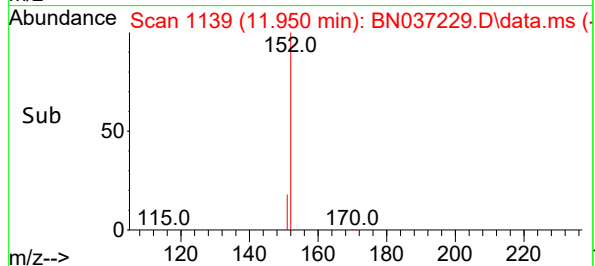
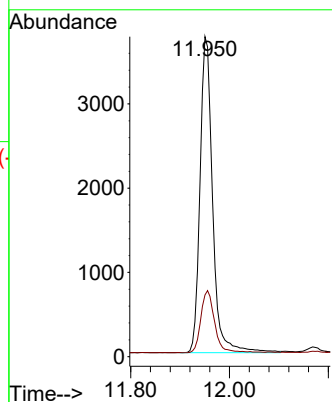
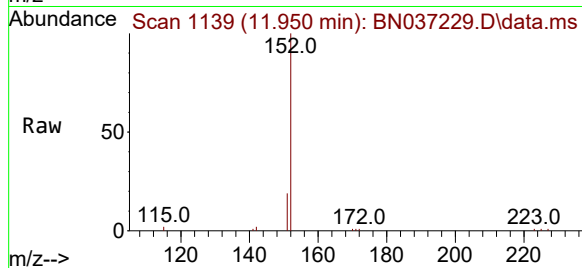




#11  
2-Methylnaphthalene-d10  
Concen: 1.718 ng  
RT: 11.950 min Scan# 1140  
Delta R.T. -0.005 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

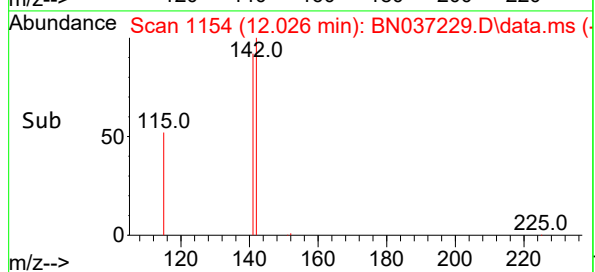
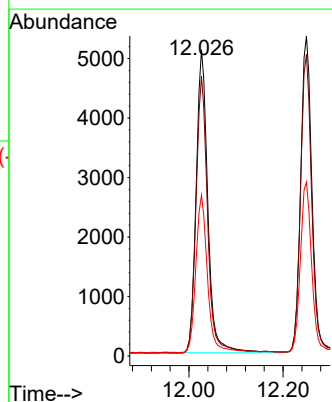
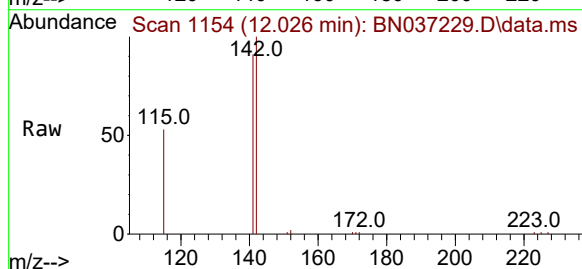
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

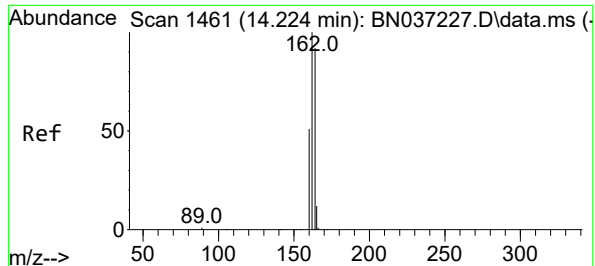
Tgt Ion:152 Resp: 6642  
Ion Ratio Lower Upper  
152 100  
151 21.6 17.9 26.9



#12  
2-Methylnaphthalene  
Concen: 1.748 ng  
RT: 12.026 min Scan# 1154  
Delta R.T. -0.005 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

Tgt Ion:142 Resp: 8865  
Ion Ratio Lower Upper  
142 100  
141 91.4 73.0 109.6  
115 52.5 43.3 64.9

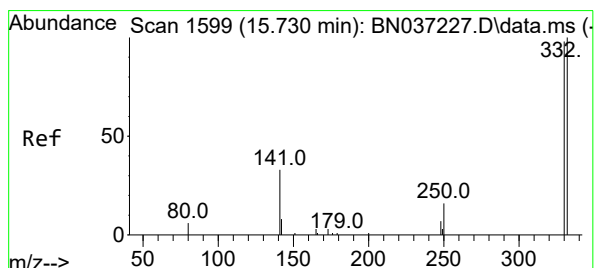
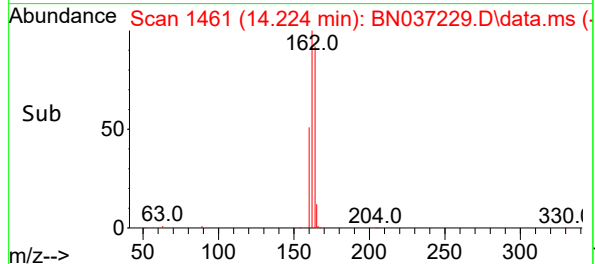
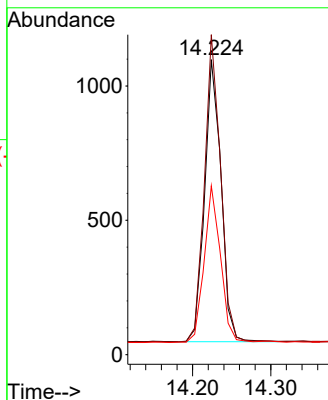
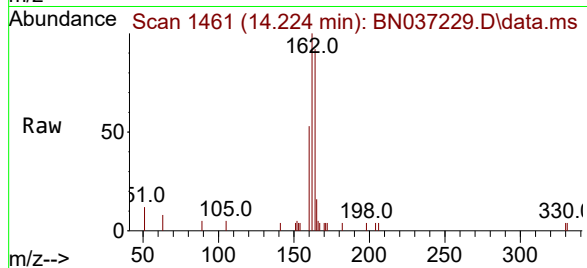




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.224 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

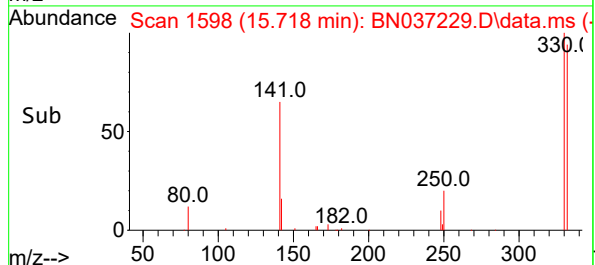
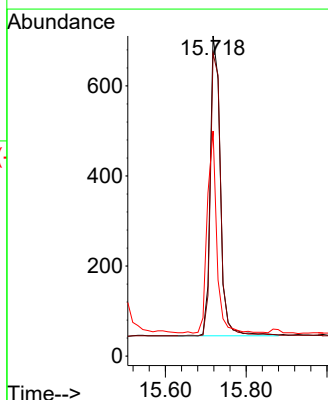
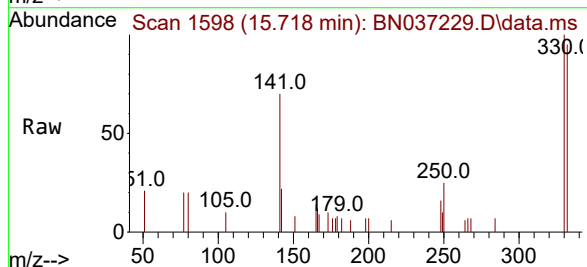
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

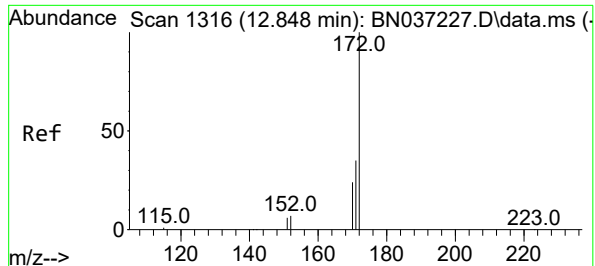
Tgt Ion:164 Resp: 1539  
Ion Ratio Lower Upper  
164 100  
162 108.5 86.7 130.1  
160 57.2 45.8 68.6



#14  
2,4,6-Tribromophenol  
Concen: 1.810 ng  
RT: 15.718 min Scan# 1598  
Delta R.T. -0.012 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

Tgt Ion:330 Resp: 1157  
Ion Ratio Lower Upper  
330 100  
332 95.2 74.9 112.3  
141 63.4 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 1.734 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

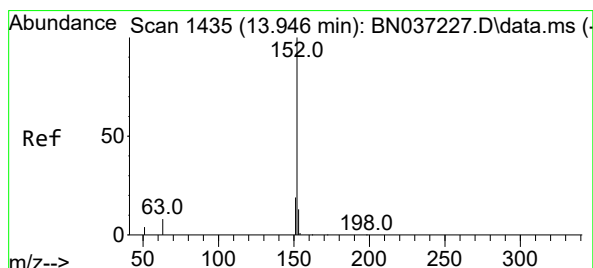
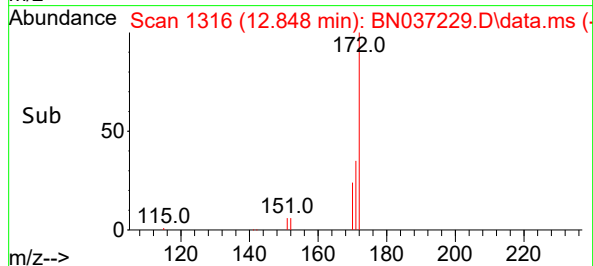
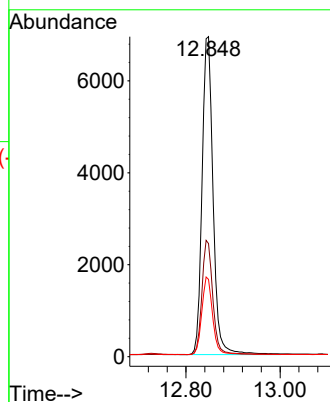
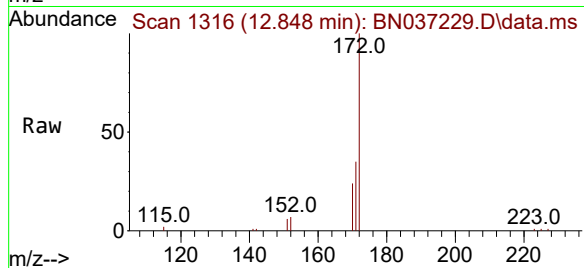
Tgt Ion:172 Resp: 11216

Ion Ratio Lower Upper

172 100

171 35.4 29.8 44.8

170 24.2 21.1 31.7



#16

Acenaphthylene

Concen: 1.696 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

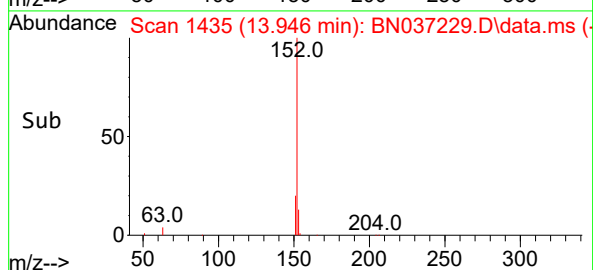
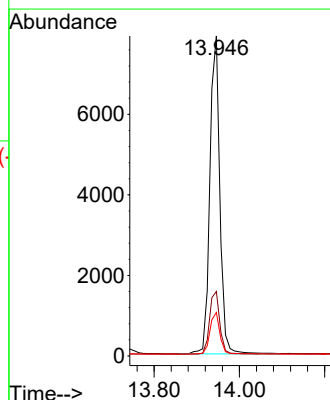
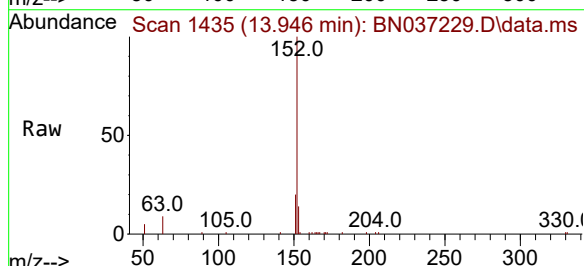
Tgt Ion:152 Resp: 12787

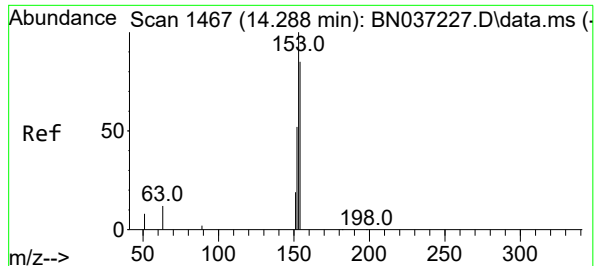
Ion Ratio Lower Upper

152 100

151 20.1 15.7 23.5

153 13.1 10.7 16.1





#17

Acenaphthene

Concen: 1.696 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

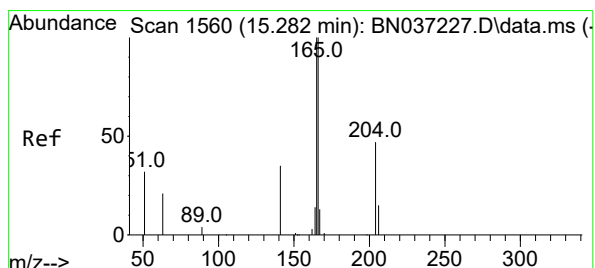
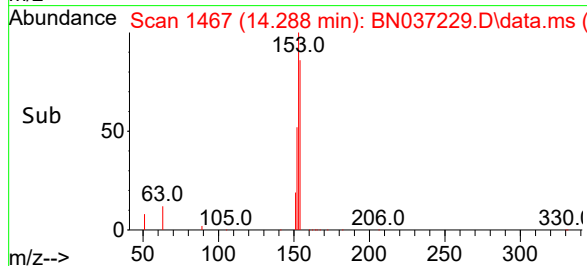
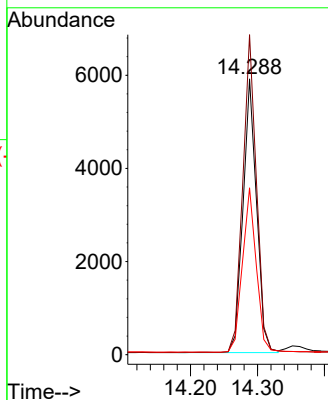
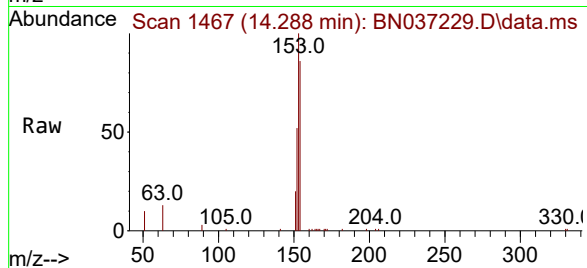
Tgt Ion:154 Resp: 8258

Ion Ratio Lower Upper

154 100

153 117.2 94.6 141.8

152 61.4 49.6 74.4



#18

Fluorene

Concen: 1.730 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

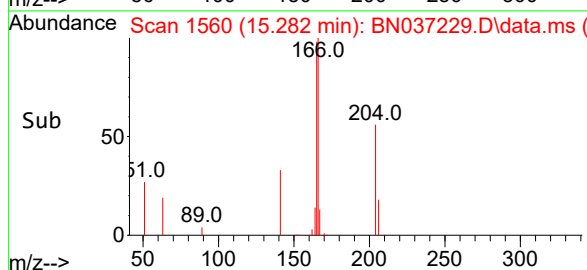
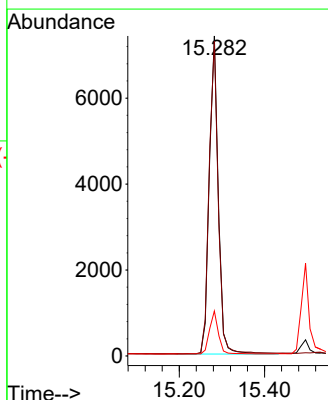
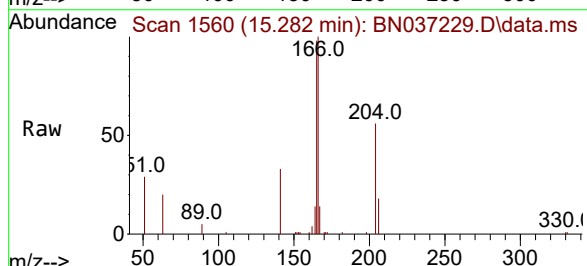
Tgt Ion:166 Resp: 10814

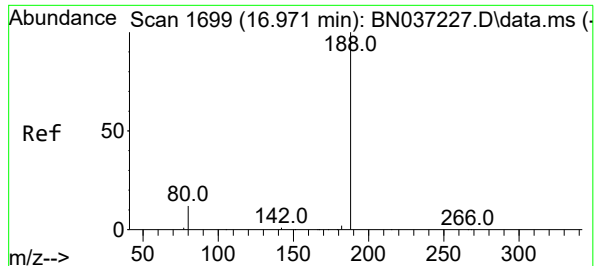
Ion Ratio Lower Upper

166 100

165 99.8 79.8 119.6

167 13.5 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

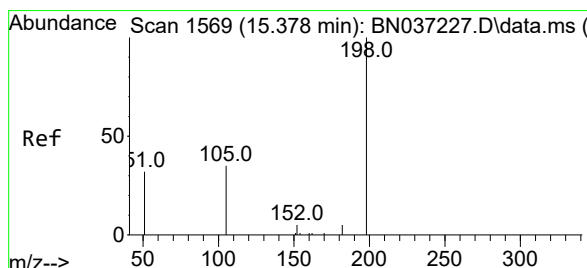
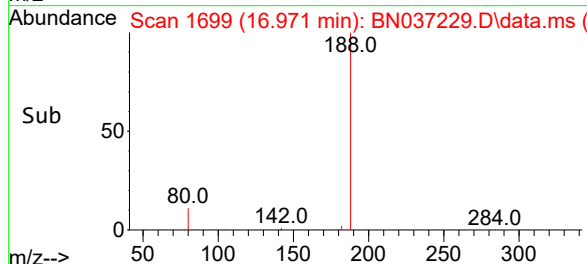
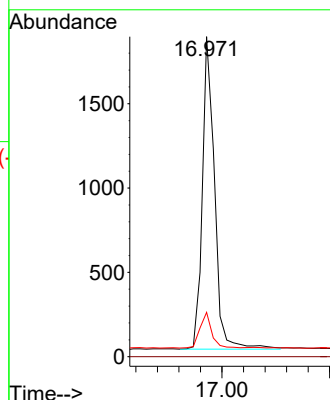
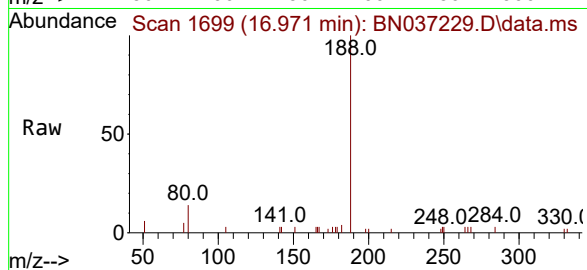
Tgt Ion:188 Resp: 2917

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.9 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 1.596 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

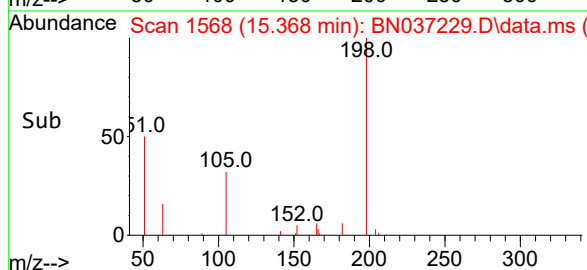
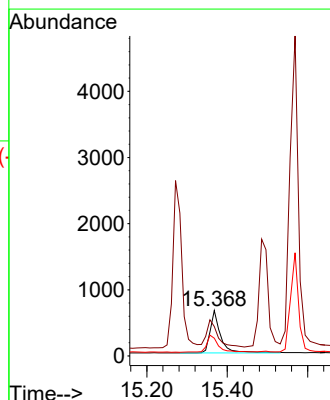
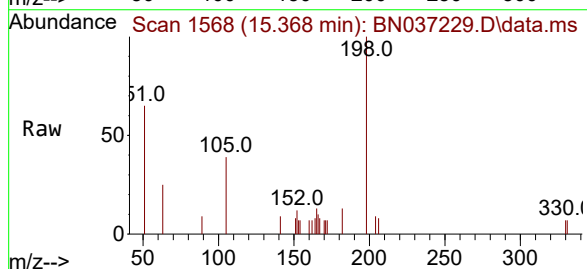
Tgt Ion:198 Resp: 1171

Ion Ratio Lower Upper

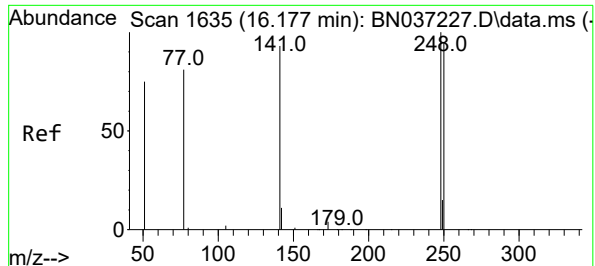
198 100

51 64.8 111.2 166.8#

105 39.0 54.0 81.0#



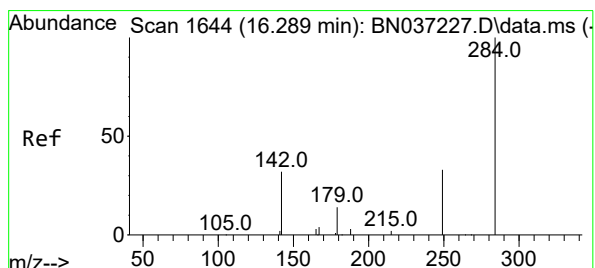
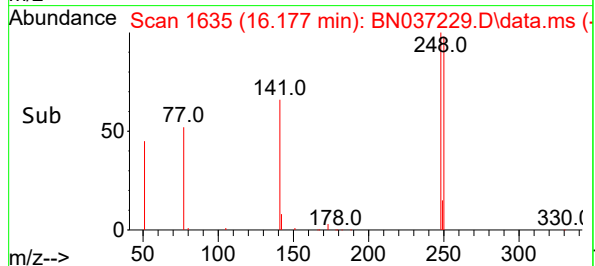
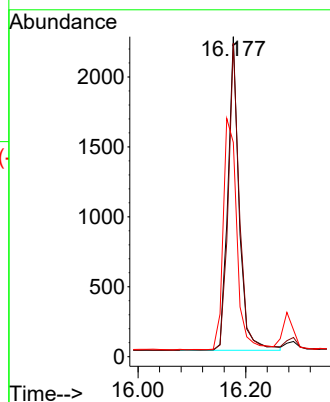
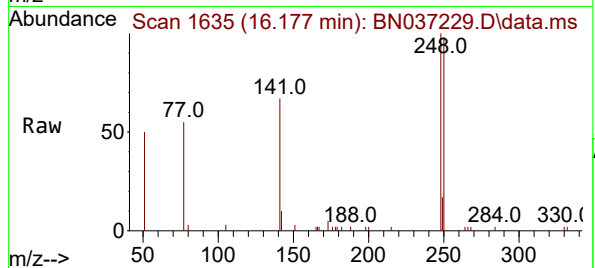




#21  
4-Bromophenyl-phenylether  
Concen: 1.709 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

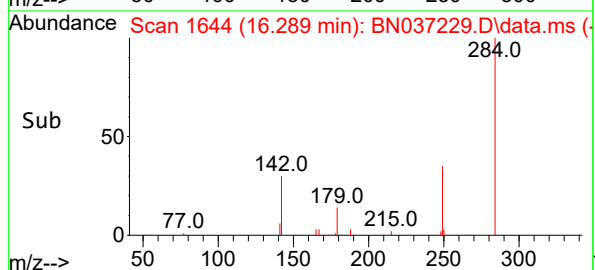
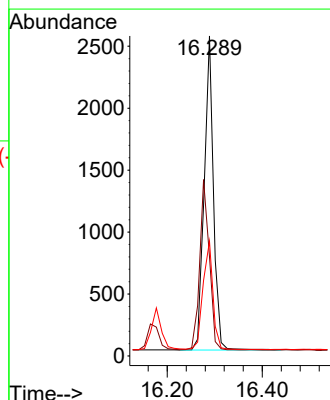
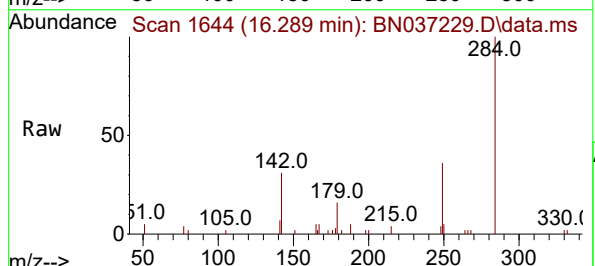
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

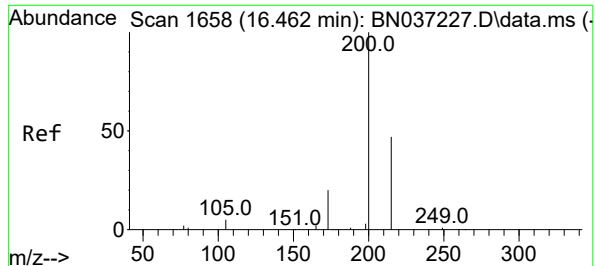
Tgt Ion:248 Resp: 3248  
Ion Ratio Lower Upper  
248 100  
250 98.0 76.8 115.2  
141 67.0 75.6 113.4#



#22  
Hexachlorobenzene  
Concen: 1.570 ng  
RT: 16.289 min Scan# 1644  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

Tgt Ion:284 Resp: 3460  
Ion Ratio Lower Upper  
284 100  
142 56.0 43.8 65.6  
249 36.7 28.4 42.6

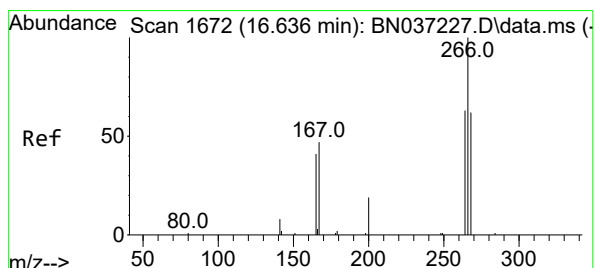
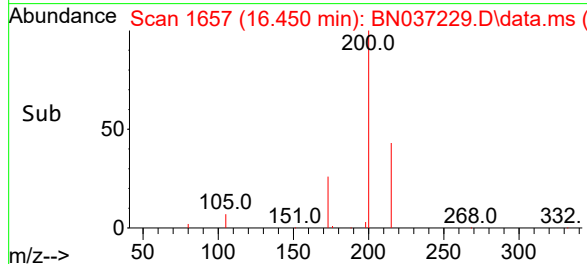
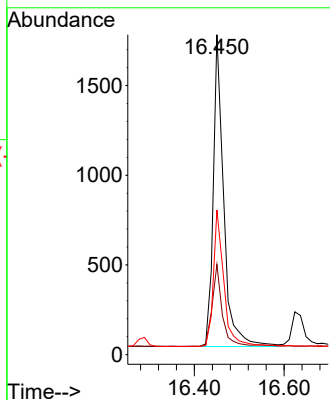
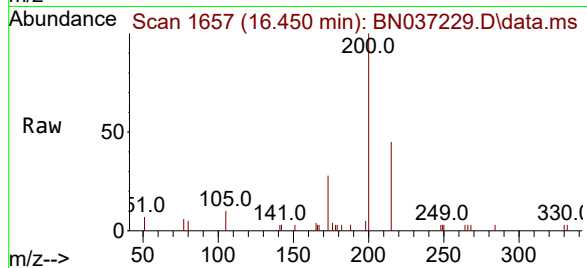




#23  
Atrazine  
Concen: 1.657 ng  
RT: 16.450 min Scan# 1657  
Delta R.T. -0.012 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

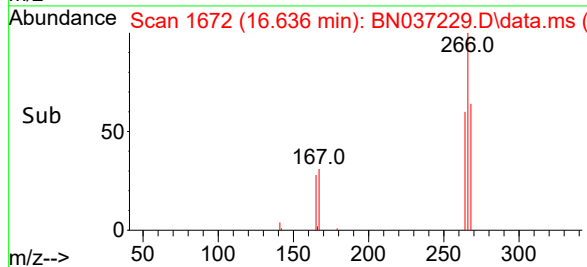
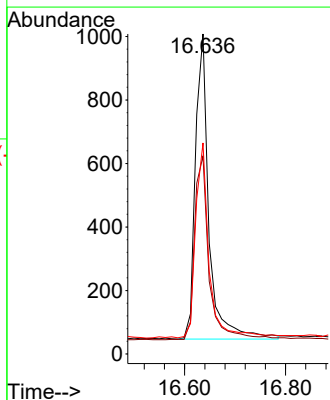
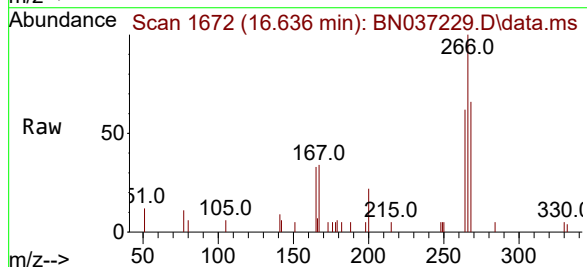
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

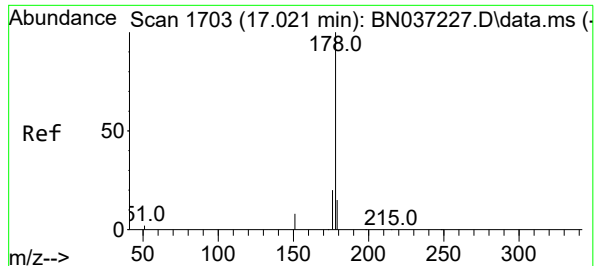
Tgt Ion:200 Resp: 2809  
Ion Ratio Lower Upper  
200 100  
173 28.2 25.1 37.7  
215 45.2 43.7 65.5



#24  
Pentachlorophenol  
Concen: 1.667 ng  
RT: 16.636 min Scan# 1672  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

Tgt Ion:266 Resp: 1800  
Ion Ratio Lower Upper  
266 100  
264 63.8 49.2 73.8  
268 63.8 53.4 80.2

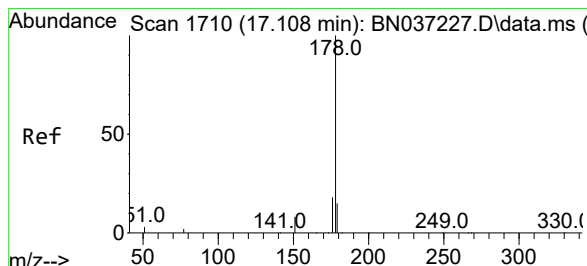
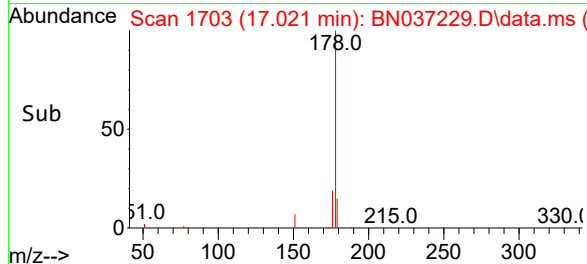
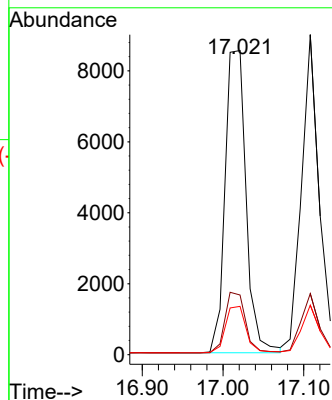
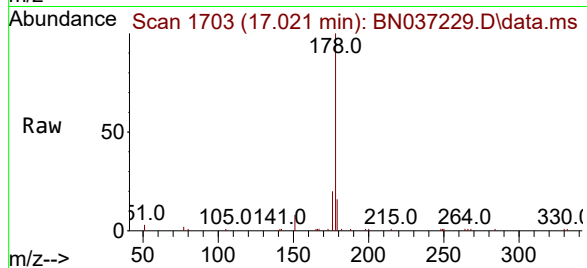




#25  
Phenanthrene  
Concen: 1.670 ng  
RT: 17.021 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

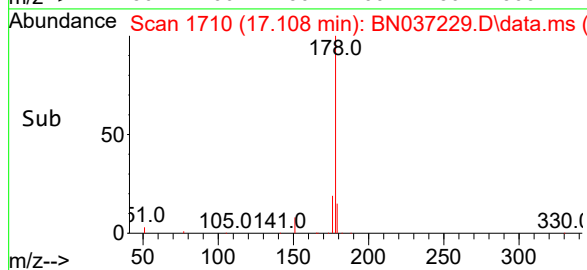
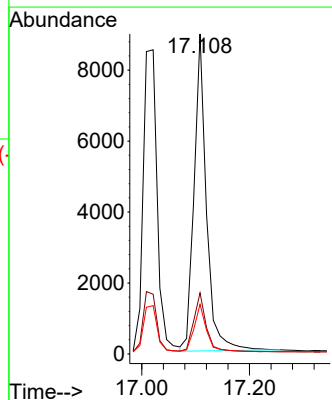
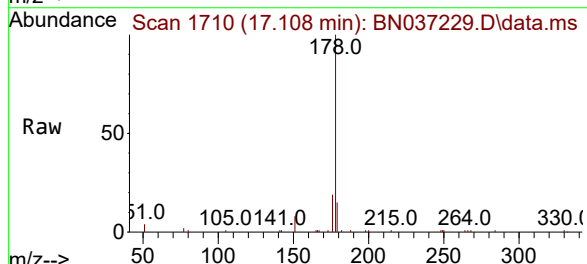
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC1.6

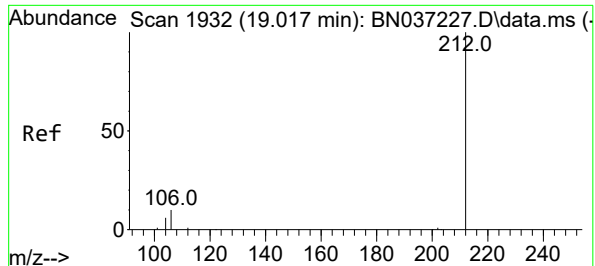
Tgt Ion:178 Resp: 15448  
Ion Ratio Lower Upper  
178 100  
176 19.7 16.3 24.5  
179 15.2 12.6 18.8



#26  
Anthracene  
Concen: 1.682 ng  
RT: 17.108 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: BN037229.D  
Acq: 13 Jun 2025 15:59

Tgt Ion:178 Resp: 14243  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.1 22.7  
179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 1.610 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

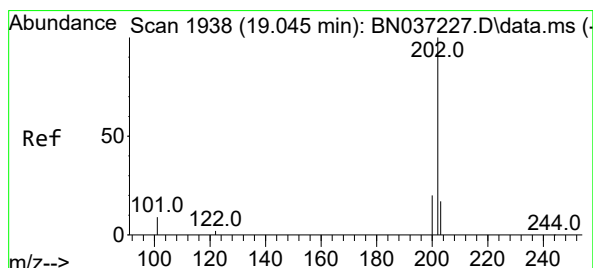
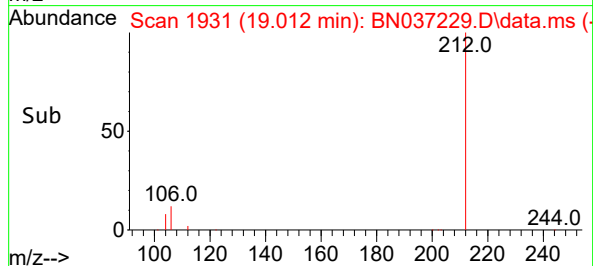
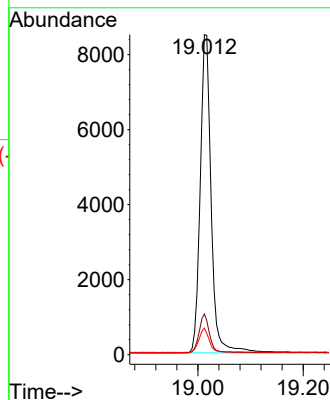
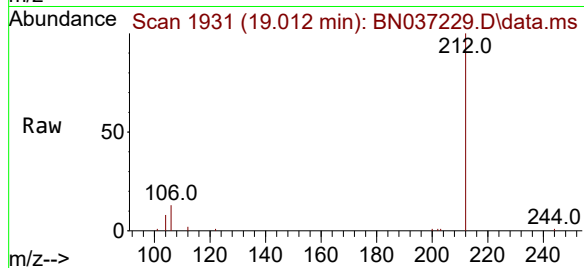
Tgt Ion:212 Resp: 12285

Ion Ratio Lower Upper

212 100

106 11.4 9.3 13.9

104 7.2 5.7 8.5



#28

Fluoranthene

Concen: 1.626 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

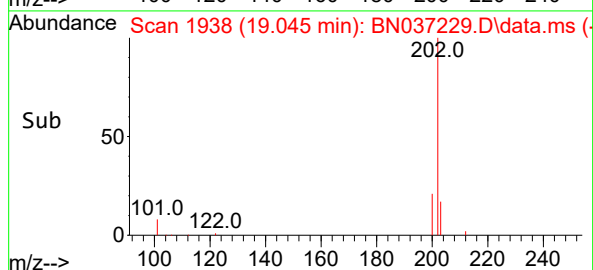
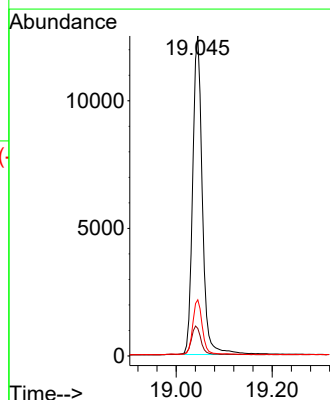
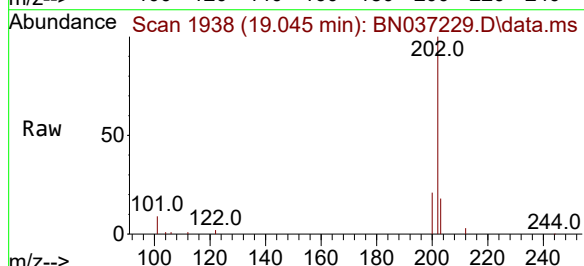
Tgt Ion:202 Resp: 17611

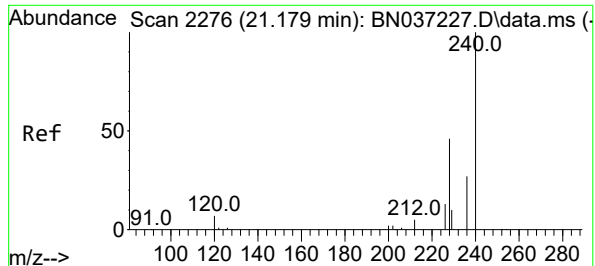
Ion Ratio Lower Upper

202 100

101 9.3 7.1 10.7

203 17.0 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

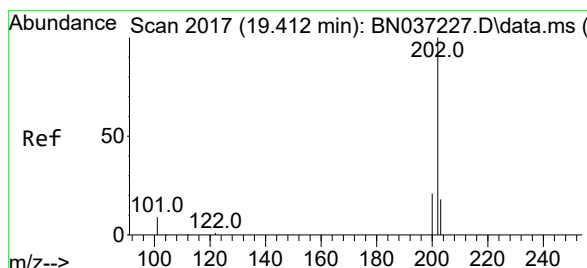
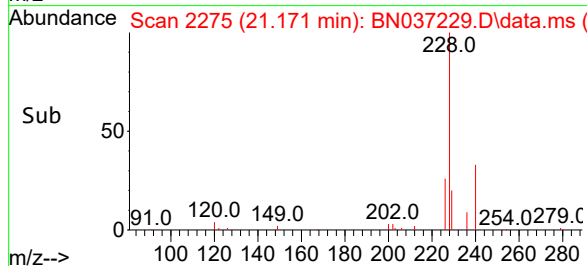
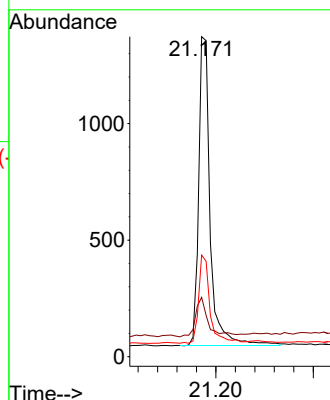
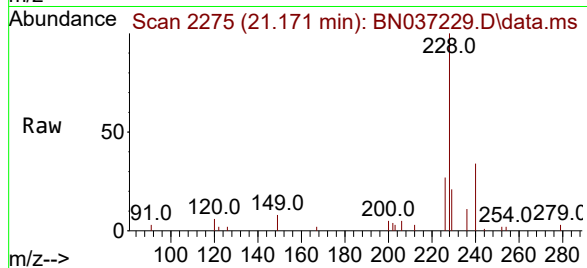
Tgt Ion:240 Resp: 2167

Ion Ratio Lower Upper

240 100

120 18.6 11.3 16.9#

236 31.8 24.4 36.6



#30

Pyrene

Concen: 1.716 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.004 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

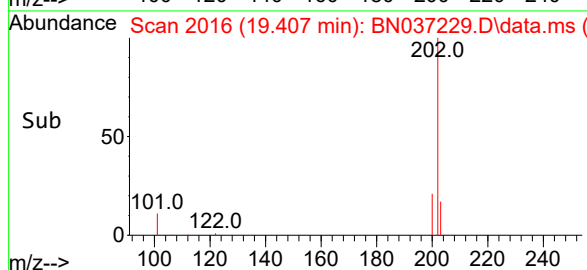
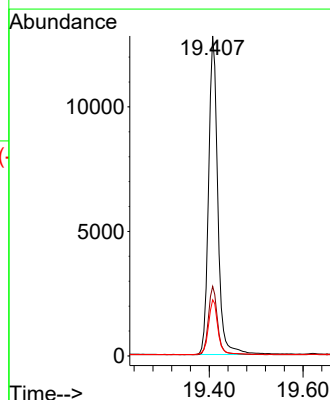
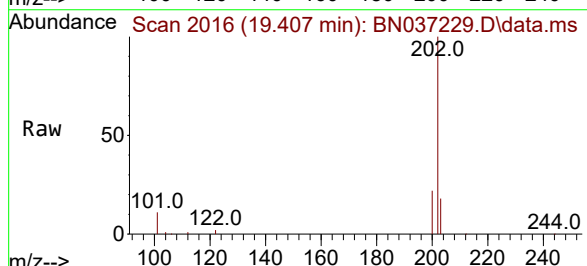
Tgt Ion:202 Resp: 17479

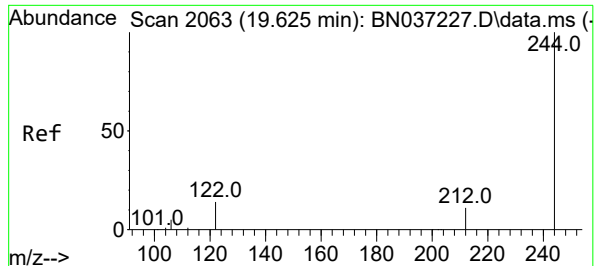
Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

203 17.7 14.3 21.5





#31

Terphenyl-d14

Concen: 1.751 ng

RT: 19.621 min Scan# 2062

Delta R.T. -0.004 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

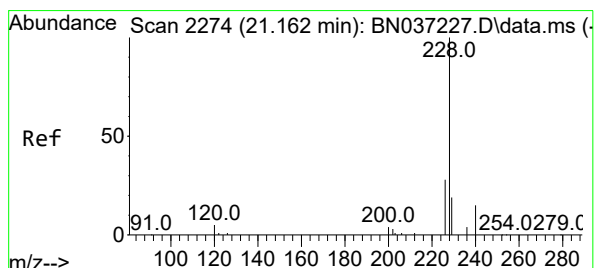
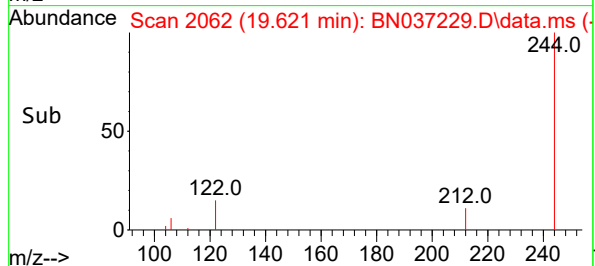
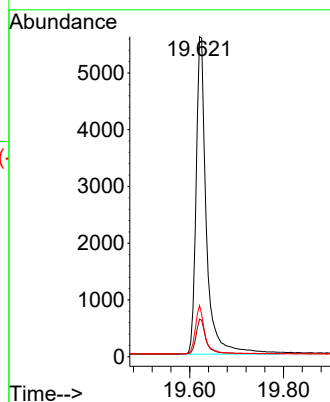
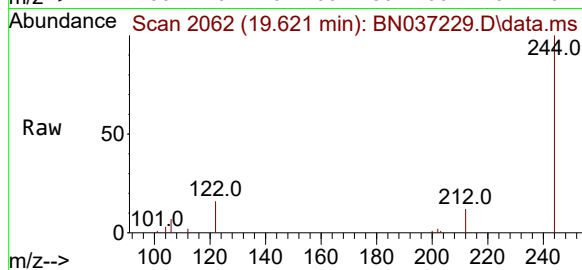
Tgt Ion:244 Resp: 8579

Ion Ratio Lower Upper

244 100

212 11.7 12.2 18.2#

122 16.0 14.3 21.5



#32

Benzo(a)anthracene

Concen: 1.791 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

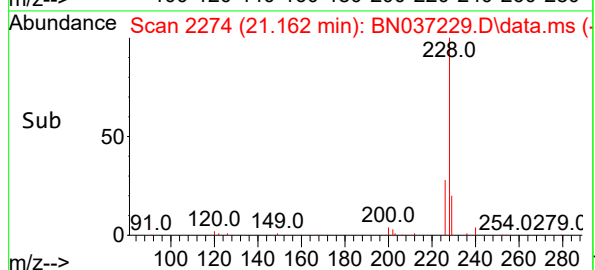
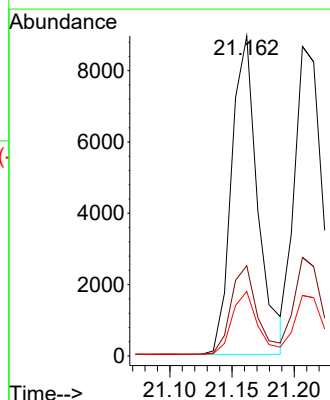
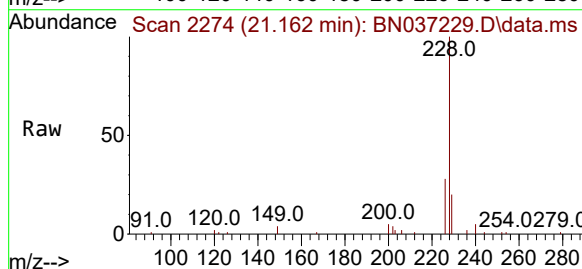
Tgt Ion:228 Resp: 13105

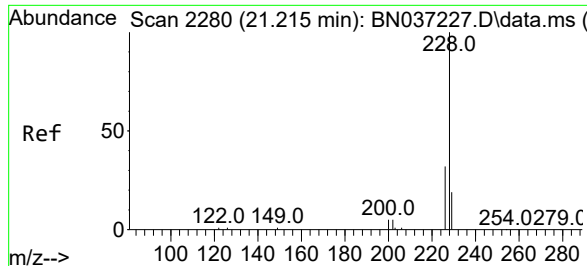
Ion Ratio Lower Upper

228 100

226 28.2 23.8 35.8

229 20.1 17.0 25.4





#33

Chrysene

Concen: 1.627 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

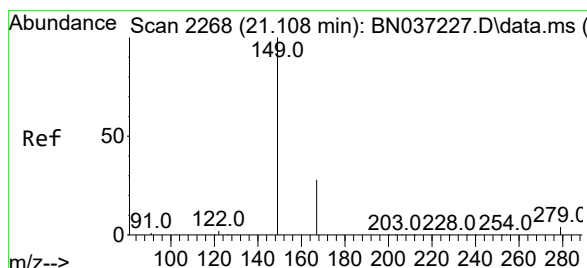
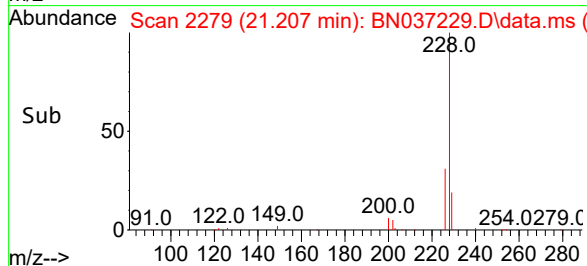
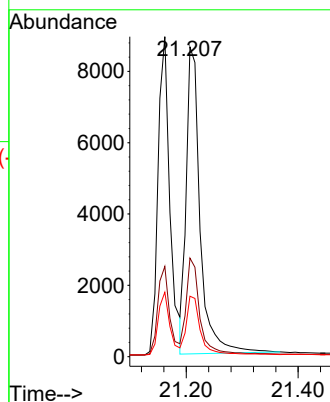
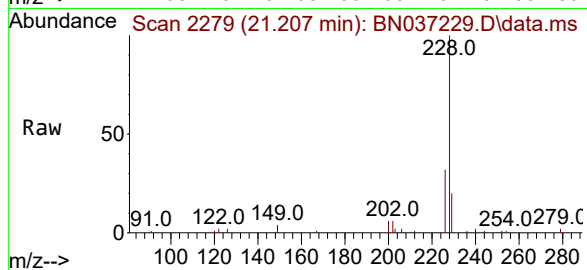
Tgt Ion:228 Resp: 14835

Ion Ratio Lower Upper

228 100

226 31.8 25.8 38.6

229 19.6 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 1.599 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

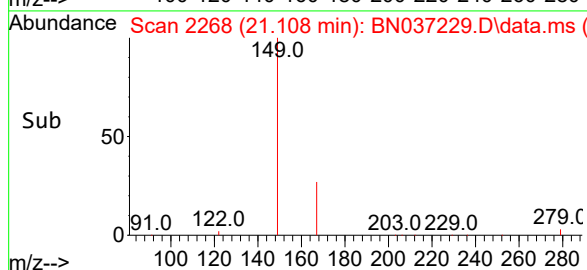
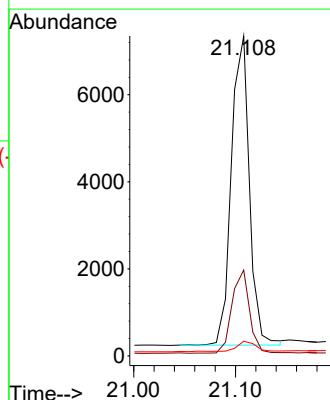
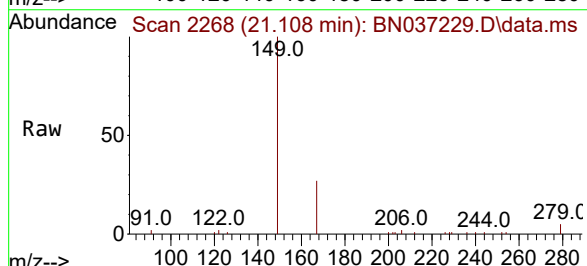
Tgt Ion:149 Resp: 8716

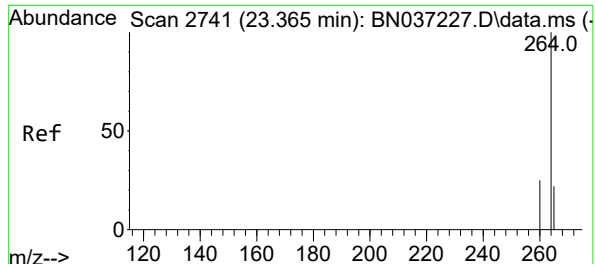
Ion Ratio Lower Upper

149 100

167 26.3 21.3 31.9

279 3.7 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

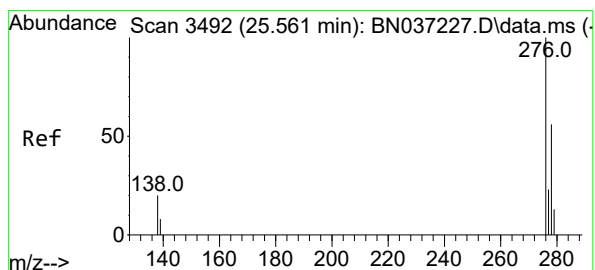
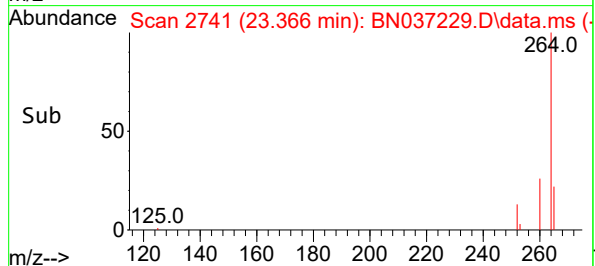
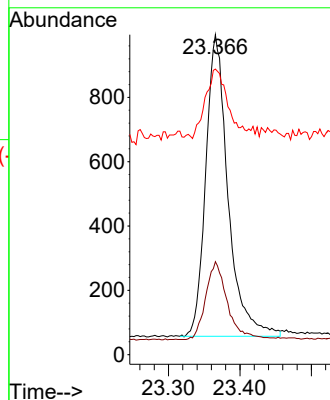
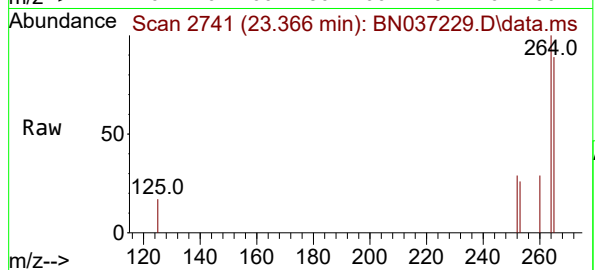
Tgt Ion:264 Resp: 2036

Ion Ratio Lower Upper

264 100

260 29.0 22.8 34.2

265 89.2 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 1.704 ng

RT: 25.555 min Scan# 3490

Delta R.T. -0.006 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

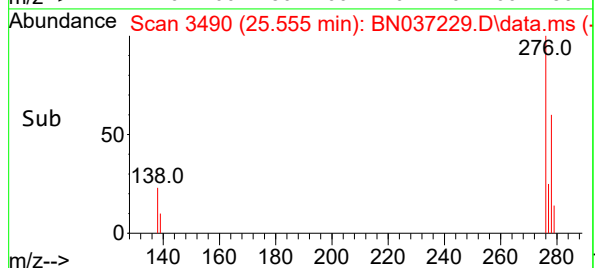
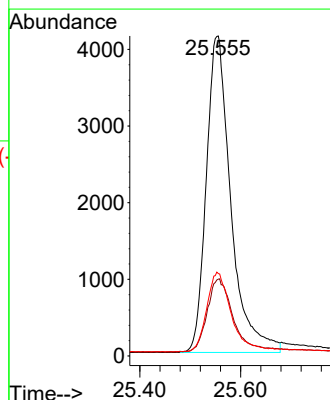
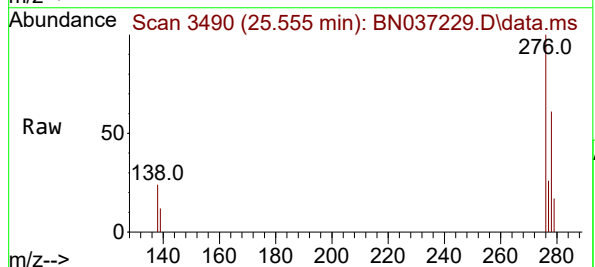
Tgt Ion:276 Resp: 13992

Ion Ratio Lower Upper

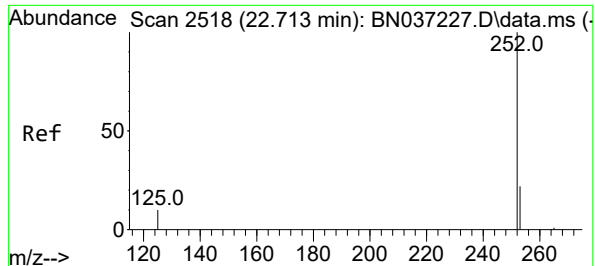
276 100

138 23.7 16.8 25.2

277 24.9 19.5 29.3







#37

Benzo(b)fluoranthene

Concen: 1.769 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

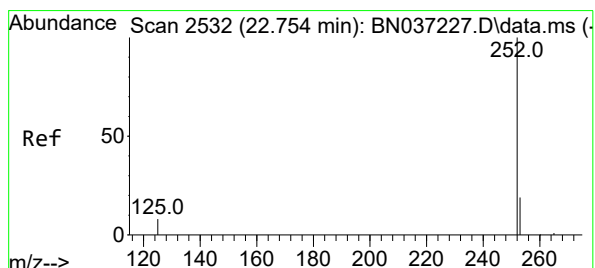
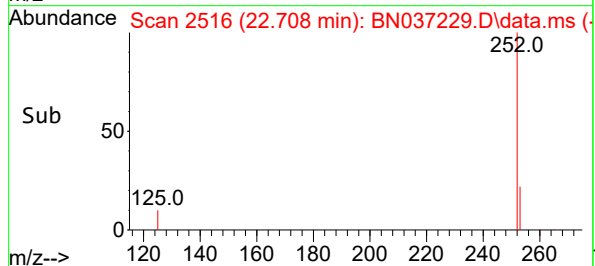
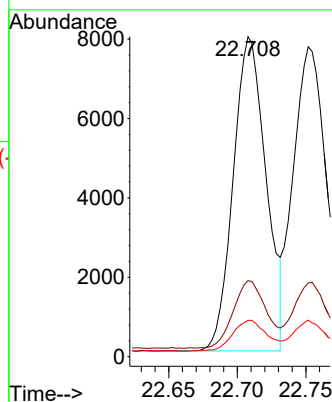
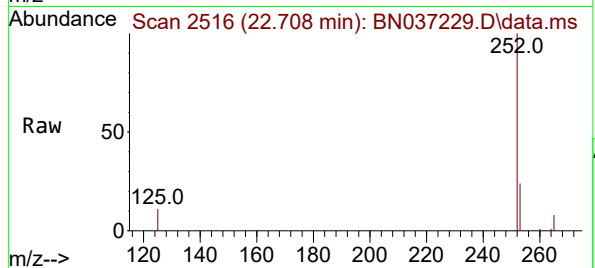
Tgt Ion:252 Resp: 13177

Ion Ratio Lower Upper

252 100

253 23.8 24.9 37.3#

125 11.4 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 1.675 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

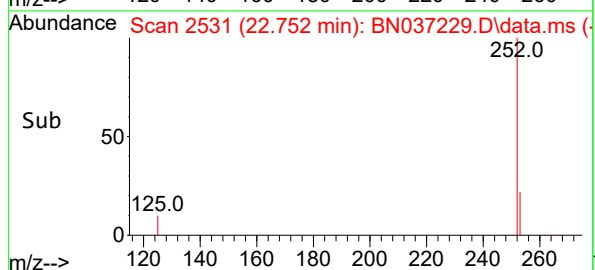
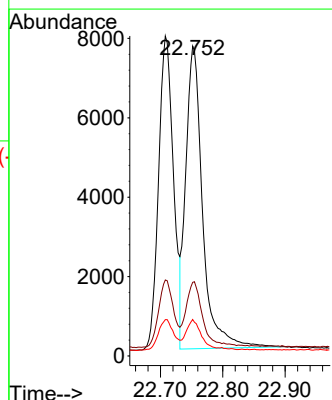
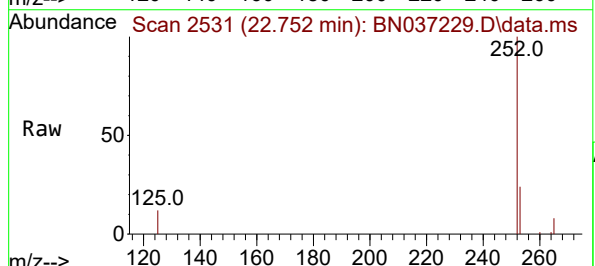
Tgt Ion:252 Resp: 14311

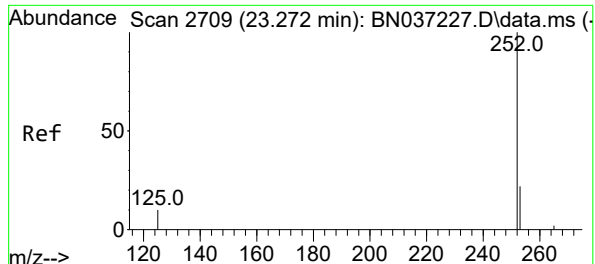
Ion Ratio Lower Upper

252 100

253 23.8 24.6 37.0#

125 11.8 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 1.710 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6

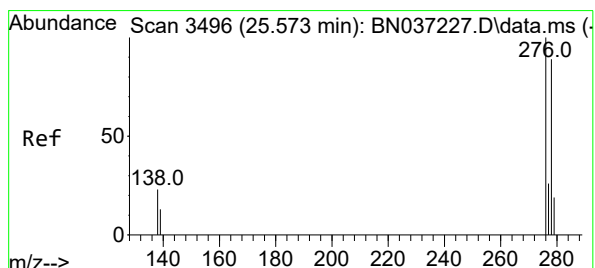
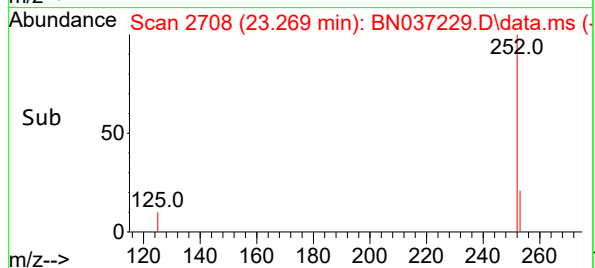
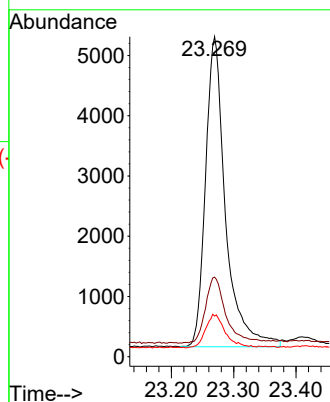
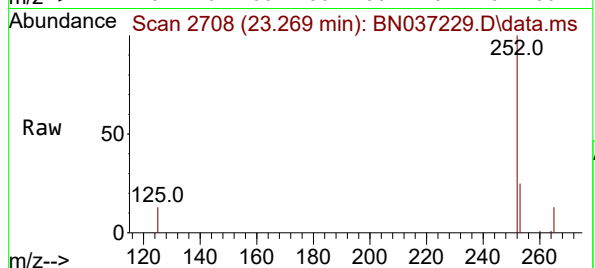
Tgt Ion:252 Resp: 11458

Ion Ratio Lower Upper

252 100

253 24.9 29.4 44.2#

125 12.7 16.2 24.2#



#40

Dibenzo(a,h)anthracene

Concen: 1.793 ng

RT: 25.570 min Scan# 3495

Delta R.T. -0.003 min

Lab File: BN037229.D

Acq: 13 Jun 2025 15:59

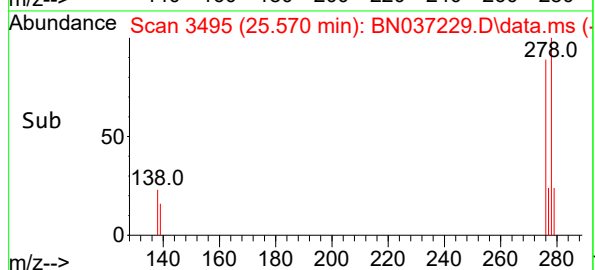
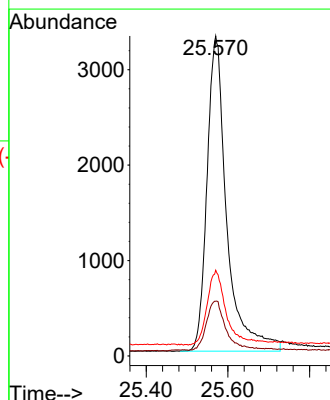
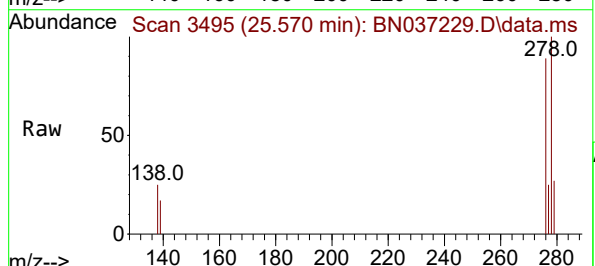
Tgt Ion:278 Resp: 11091

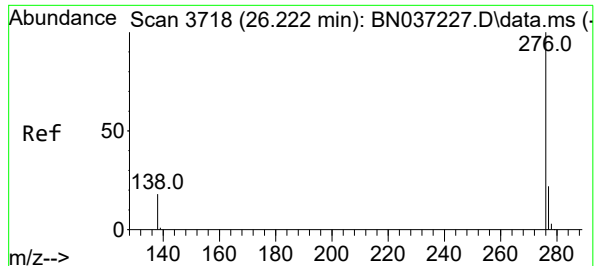
Ion Ratio Lower Upper

278 100

139 17.1 17.8 26.6#

279 26.8 31.3 46.9#





#41

Benzo(g,h,i)perylene

Concen: 1.665 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037229.D

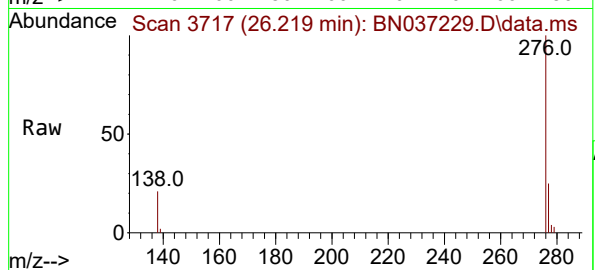
Acq: 13 Jun 2025 15:59

Instrument :

BNA\_N

ClientSampleId :

SSTDICC1.6



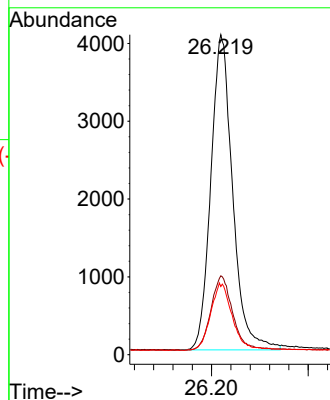
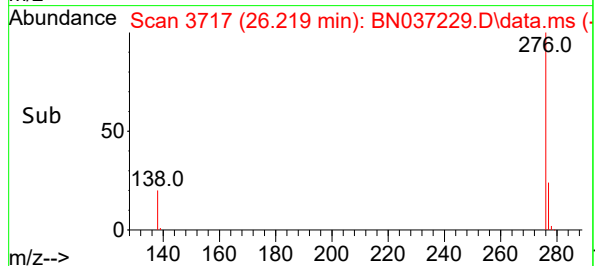
Tgt Ion:276 Resp: 12677

Ion Ratio Lower Upper

276 100

277 24.7 22.0 33.0

138 21.3 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037230.D  
 Acq On : 13 Jun 2025 16:35  
 Operator : RC/JU  
 Sample : SSTDICC3.2  
 Misc :  
 ALS Vial : 8 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC3.2

Quant Time: Jun 13 18:38:27 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:34:15 2025  
 Response via : Initial Calibration

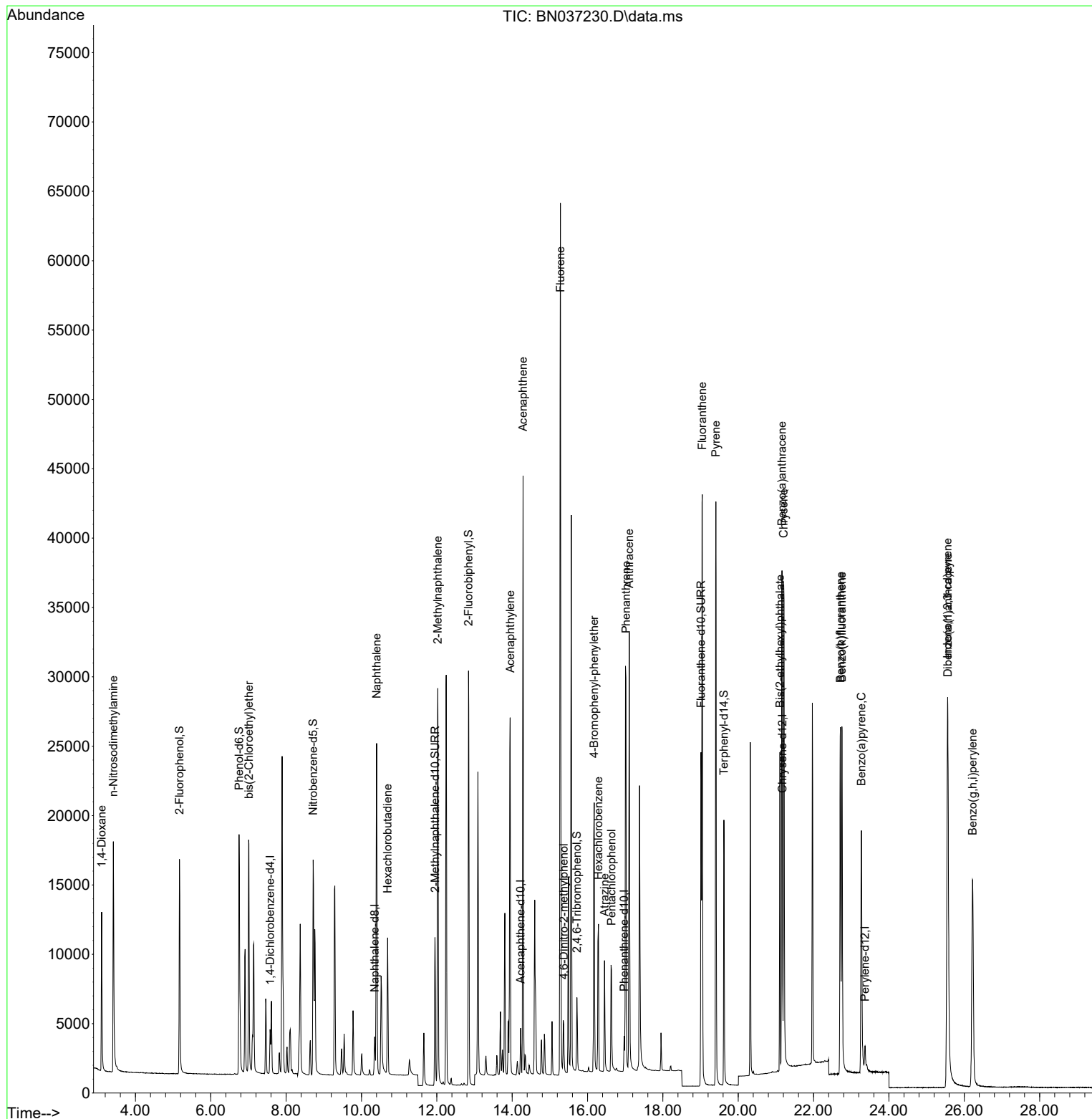
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1362     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.351 | 136  | 3277     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1730     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.971 | 188  | 3218     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.171 | 240  | 2562     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.366 | 264  | 2434     | 0.400 | ng    | 0.00     |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.170  | 112  | 10792    | 3.226 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.752  | 99   | 12700    | 3.602 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.717  | 82   | 11592    | 3.579 | ng    | -0.01    |
| 11) 2-Methylnaphthalene-d10   | 11.950 | 152  | 14468    | 3.290 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.718 | 330  | 2530     | 3.521 | ng    | -0.01    |
| 15) 2-Fluorobiphenyl          | 12.843 | 172  | 24600    | 3.384 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.012 | 212  | 26844    | 3.188 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.621 | 244  | 19247    | 3.323 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
|                               |        |      |          |       |       | Qvalue   |
| 2) 1,4-Dioxane                | 3.104  | 88   | 5606     | 3.000 | ng    | 94       |
| 3) n-Nitrosodimethylamine     | 3.415  | 42   | 13425    | 3.153 | ng    | 97       |
| 6) bis(2-Chloroethyl)ether    | 7.012  | 93   | 11592    | 3.671 | ng    | 94       |
| 9) Naphthalene                | 10.404 | 128  | 30442    | 3.208 | ng    | 95       |
| 10) Hexachlorobutadiene       | 10.693 | 225  | 6997     | 3.031 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.026 | 142  | 19566    | 3.392 | ng    | 98       |
| 16) Acenaphthylene            | 13.946 | 152  | 28536    | 3.366 | ng    | 99       |
| 17) Acenaphthene              | 14.288 | 154  | 18242    | 3.334 | ng    | 98       |
| 18) Fluorene                  | 15.282 | 166  | 23723    | 3.375 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.368 | 198  | 2836     | 3.223 | ng    | # 37     |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 7106     | 3.389 | ng    | # 83     |
| 22) Hexachlorobenzene         | 16.289 | 284  | 7308     | 3.006 | ng    | 97       |
| 23) Atrazine                  | 16.450 | 200  | 6193     | 3.311 | ng    | 88       |
| 24) Pentachlorophenol         | 16.636 | 266  | 4179     | 3.508 | ng    | 98       |
| 25) Phenanthrene              | 17.021 | 178  | 34176    | 3.349 | ng    | 99       |
| 26) Anthracene                | 17.108 | 178  | 32366    | 3.464 | ng    | 99       |
| 28) Fluoranthene              | 19.045 | 202  | 38876    | 3.254 | ng    | 98       |
| 30) Pyrene                    | 19.407 | 202  | 38772    | 3.219 | ng    | 100      |
| 32) Benzo(a)anthracene        | 21.162 | 228  | 30893    | 3.571 | ng    | 96       |
| 33) Chrysene                  | 21.207 | 228  | 33474    | 3.106 | ng    | 97       |
| 34) Bis(2-ethylhexyl)phtha... | 21.108 | 149  | 19300    | 2.996 | ng    | # 99     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.556 | 276  | 34219    | 3.486 | ng    | # 94     |
| 37) Benzo(b)fluoranthene      | 22.711 | 252  | 30687    | 3.447 | ng    | # 85     |
| 38) Benzo(k)fluoranthene      | 22.752 | 252  | 33172    | 3.248 | ng    | # 85     |
| 39) Benzo(a)pyrene            | 23.269 | 252  | 26918    | 3.361 | ng    | # 79     |
| 40) Dibenzo(a,h)anthracene    | 25.564 | 278  | 27744    | 3.751 | ng    | # 81     |
| 41) Benzo(g,h,i)perylene      | 26.219 | 276  | 30489    | 3.350 | ng    | 95       |

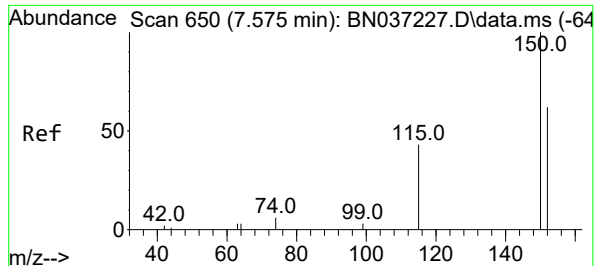
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037230.D  
Acq On : 13 Jun 2025 16:35  
Operator : RC/JU  
Sample : SSTDICC3.2  
Misc :  
ALS Vial : 8 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Quant Time: Jun 13 18:38:27 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:34:15 2025  
Response via : Initial Calibration

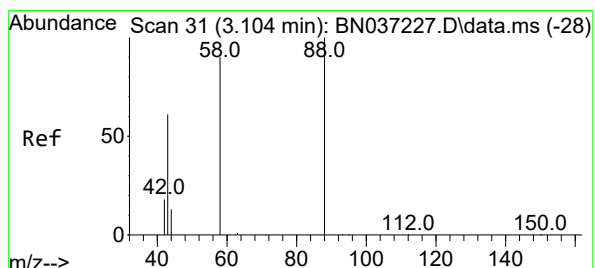
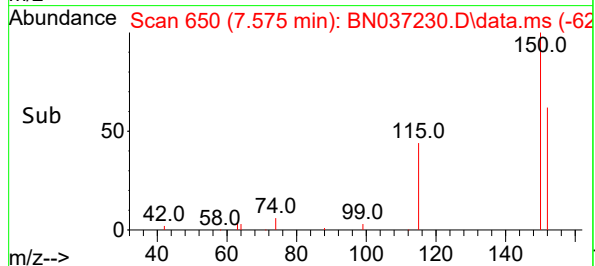
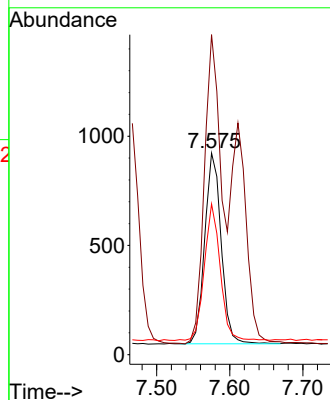
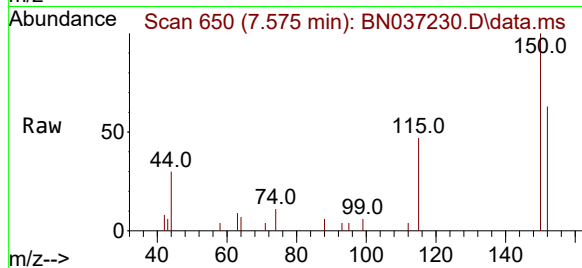




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. 0.000 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

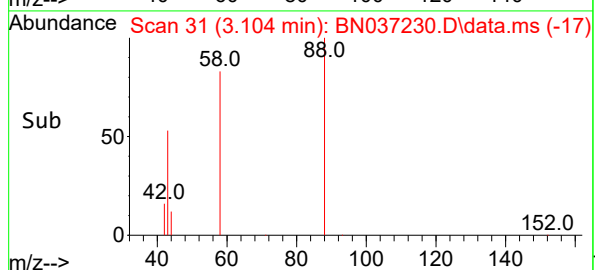
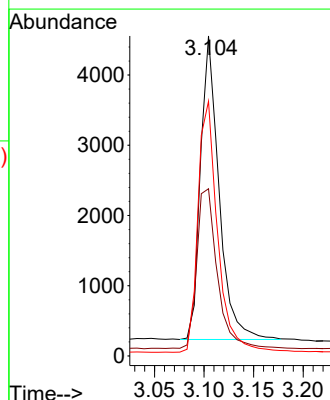
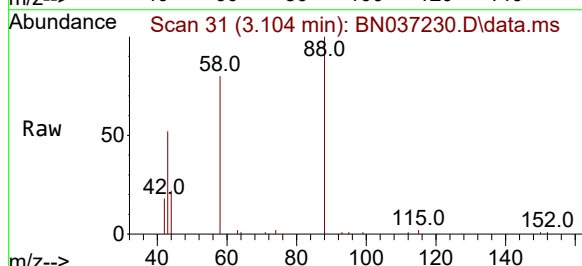
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

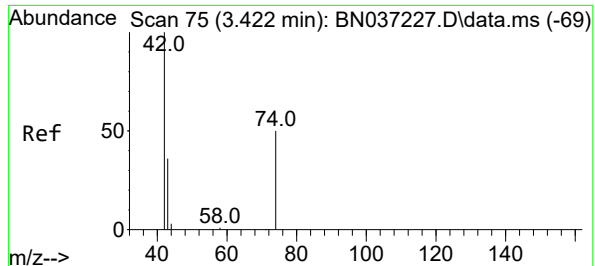
Tgt Ion:152 Resp: 1362  
Ion Ratio Lower Upper  
152 100  
150 158.7 125.2 187.8  
115 74.8 58.4 87.6



#2  
1,4-Dioxane  
Concen: 3.000 ng  
RT: 3.104 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

Tgt Ion: 88 Resp: 5606  
Ion Ratio Lower Upper  
88 100  
43 58.5 52.6 79.0  
58 88.1 73.5 110.3

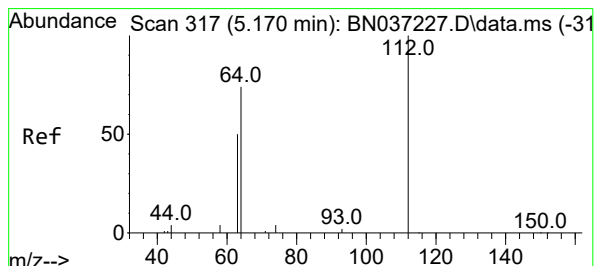
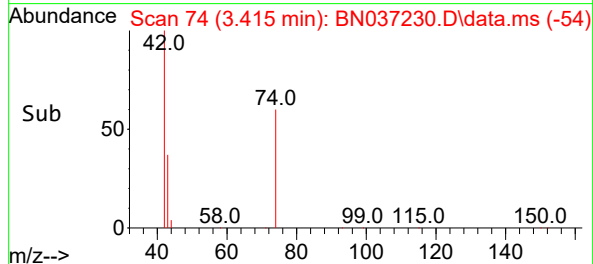
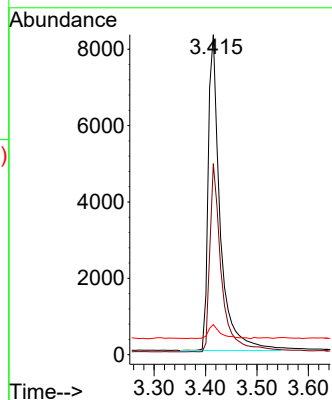
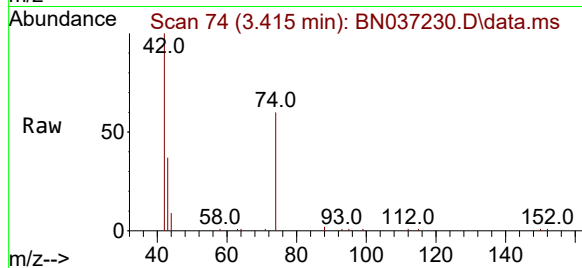




#3  
n-Nitrosodimethylamine  
Concen: 3.153 ng  
RT: 3.415 min Scan# 74  
Delta R.T. -0.007 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

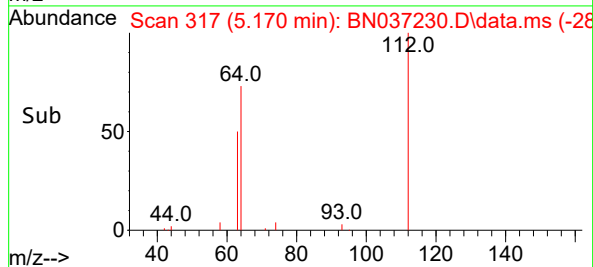
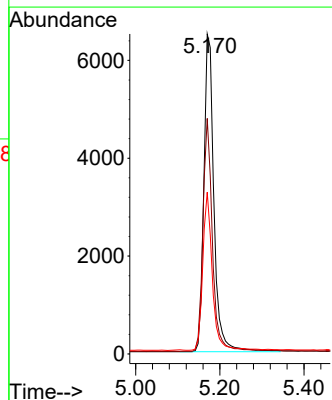
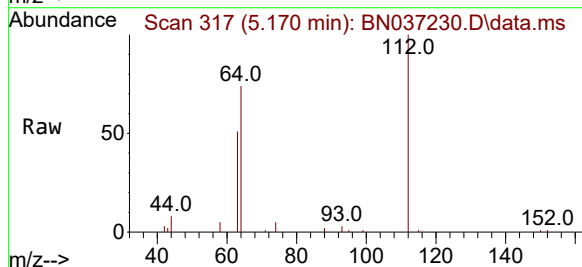
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

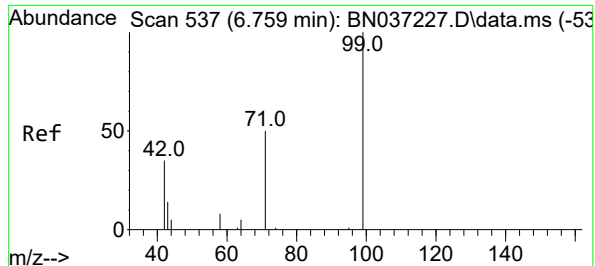
Tgt Ion: 42 Resp: 13425  
Ion Ratio Lower Upper  
42 100  
74 58.0 44.6 66.8  
44 4.7 3.5 5.3



#4  
2-Fluorophenol  
Concen: 3.226 ng  
RT: 5.170 min Scan# 317  
Delta R.T. 0.000 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

Tgt Ion: 112 Resp: 10792  
Ion Ratio Lower Upper  
112 100  
64 69.7 57.2 85.8  
63 47.3 39.8 59.6

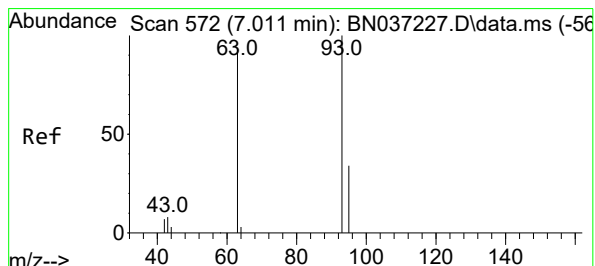
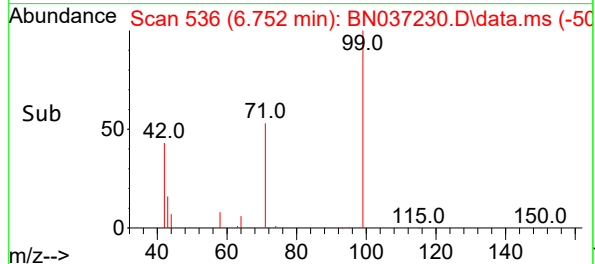
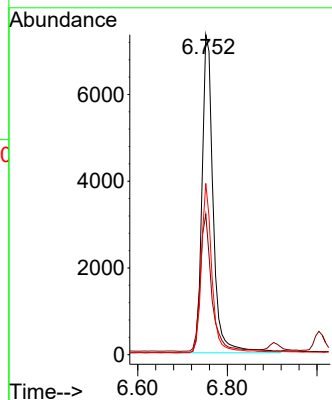
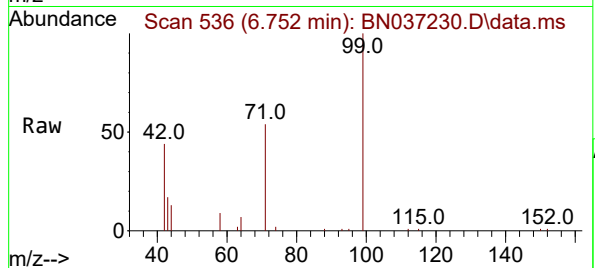




#5  
Phenol-d6  
Concen: 3.602 ng  
RT: 6.752 min Scan# 511  
Delta R.T. -0.007 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

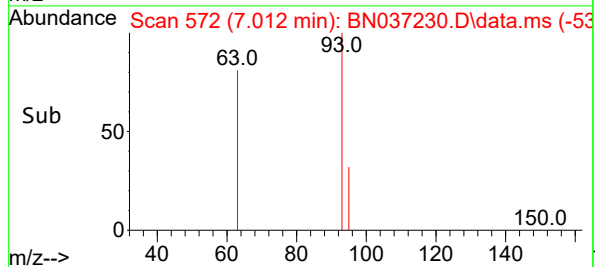
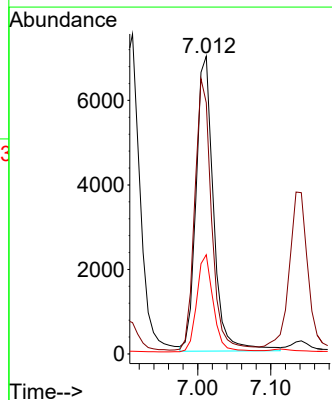
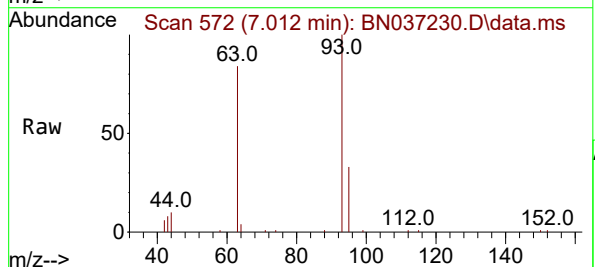
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

Tgt Ion: 99 Resp: 12700  
Ion Ratio Lower Upper  
99 100  
42 44.5 36.2 54.4  
71 51.2 42.4 63.6

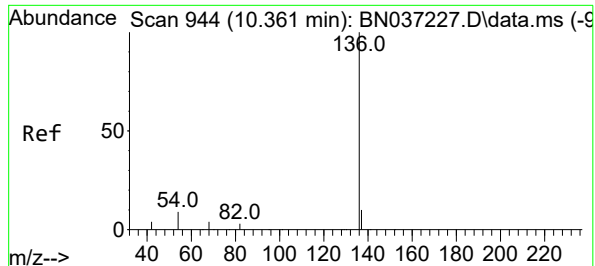


#6  
bis(2-Chloroethyl)ether  
Concen: 3.671 ng  
RT: 7.012 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

Tgt Ion: 93 Resp: 11592  
Ion Ratio Lower Upper  
93 100  
63 88.1 75.2 112.8  
95 31.1 28.3 42.5



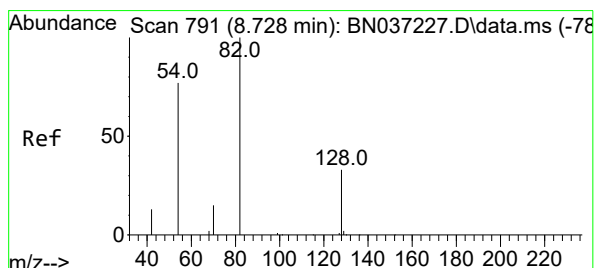
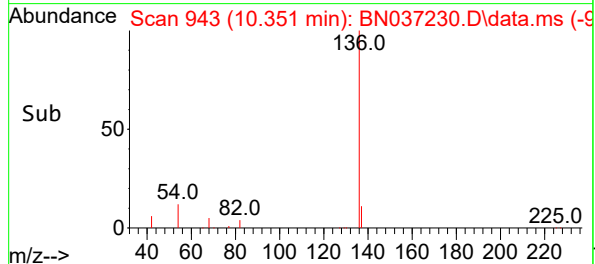
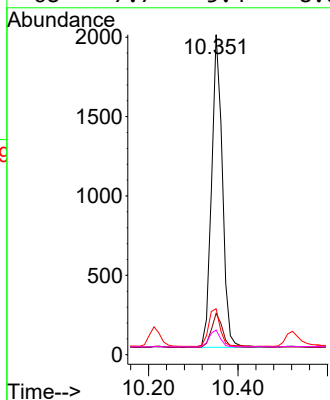
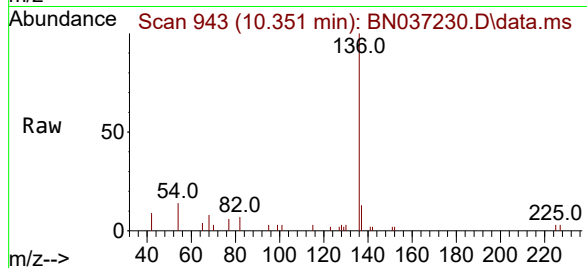




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 944  
Delta R.T. -0.010 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

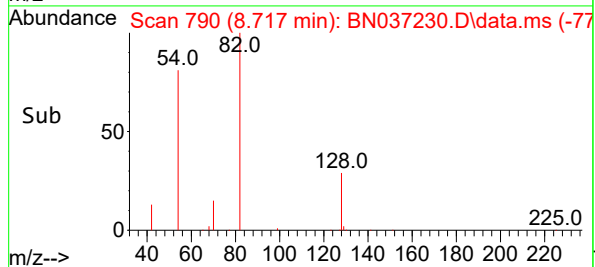
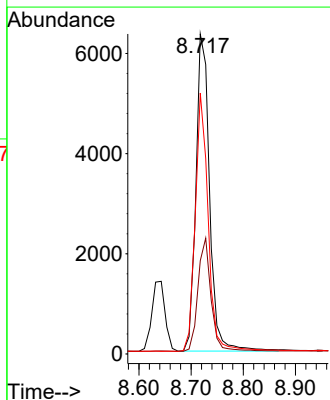
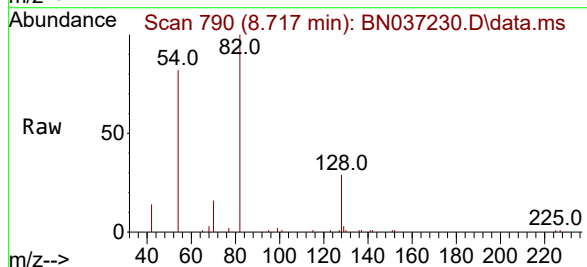
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

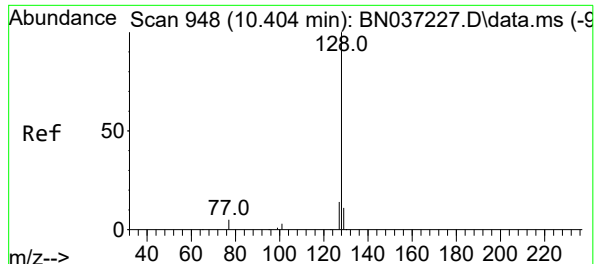
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:136 | Resp: | 3277        |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 12.9  | 10.6 15.8   |
| 54          | 14.4  | 9.2 13.8#   |
| 68          | 7.7   | 5.4 8.0     |



#8  
Nitrobenzene-d5  
Concen: 3.579 ng  
RT: 8.717 min Scan# 790  
Delta R.T. -0.010 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 11592       |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 29.1  | 31.2 46.8#  |
| 54          | 81.6  | 63.3 94.9   |

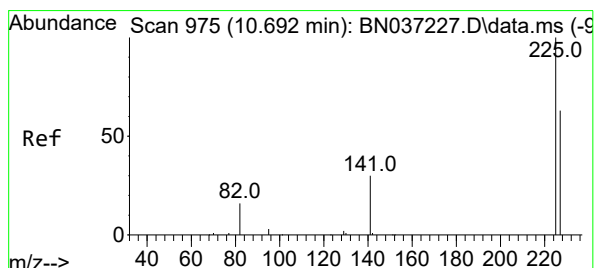
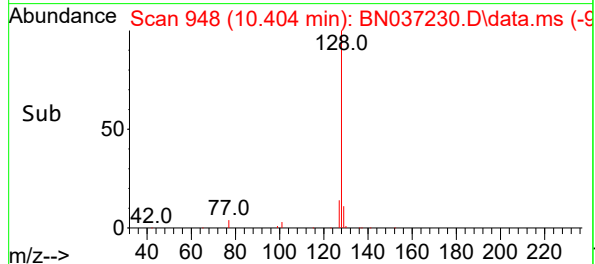
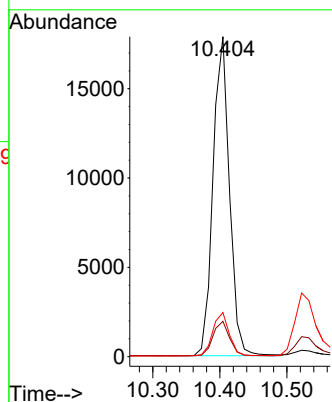
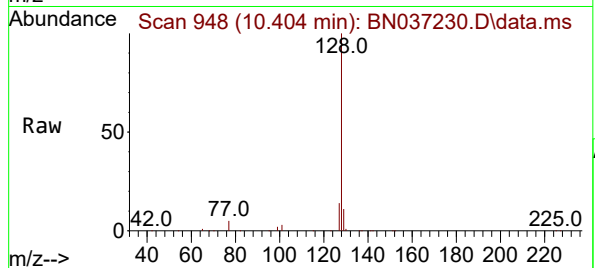




#9  
Naphthalene  
Concen: 3.208 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

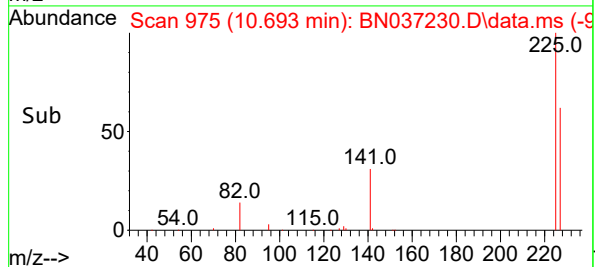
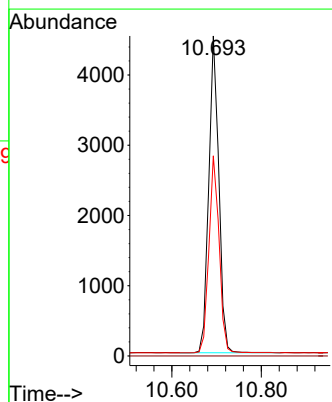
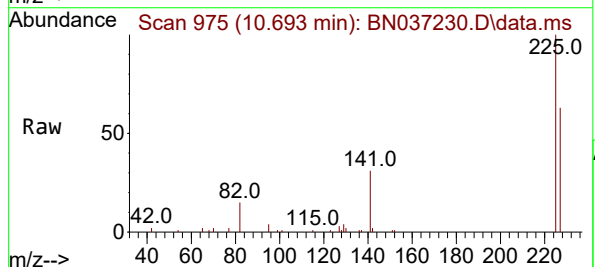
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

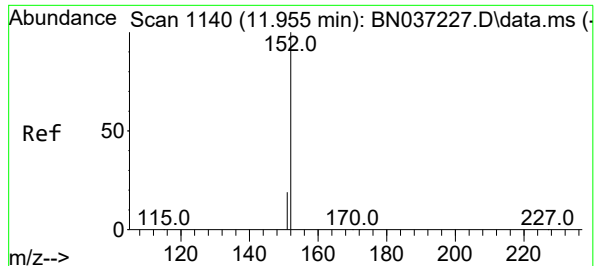
| Tgt Ion | 128   | 129  | 127  |
|---------|-------|------|------|
| Resp:   | 30442 | 11.1 | 13.8 |
| Lower   |       | 10.7 | 12.6 |
| Upper   |       | 16.1 | 19.0 |



#10  
Hexachlorobutadiene  
Concen: 3.031 ng  
RT: 10.693 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

| Tgt Ion | 225  | 223 | 227  |
|---------|------|-----|------|
| Resp:   | 6997 | 0.0 | 63.2 |
| Lower   |      | 0.0 | 49.2 |
| Upper   |      | 0.0 | 73.8 |

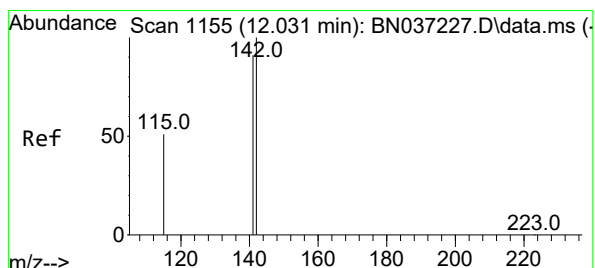
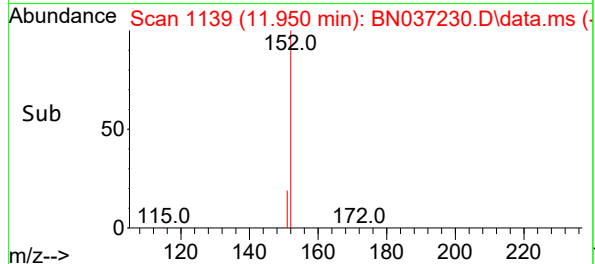
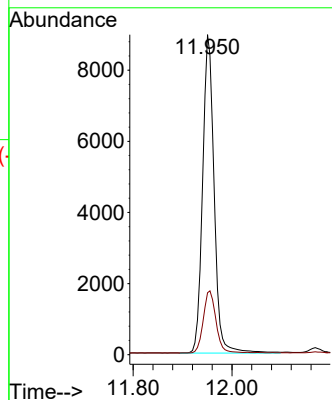
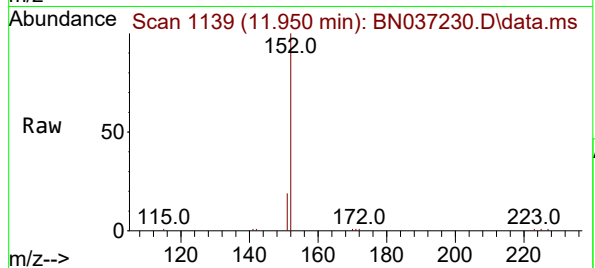




#11  
2-Methylnaphthalene-d10  
Concen: 3.290 ng  
RT: 11.950 min Scan# 1139  
Delta R.T. -0.005 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

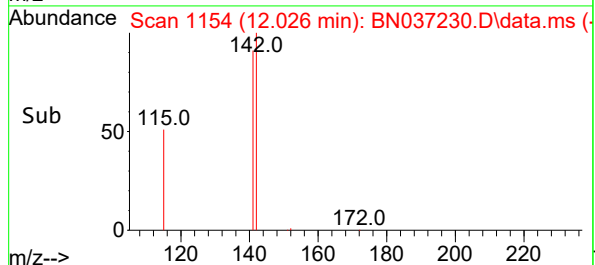
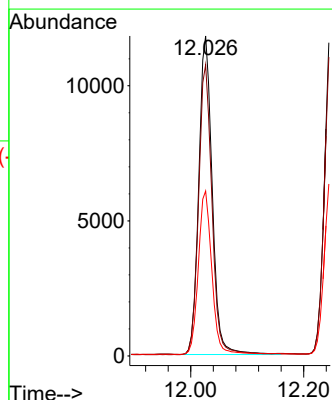
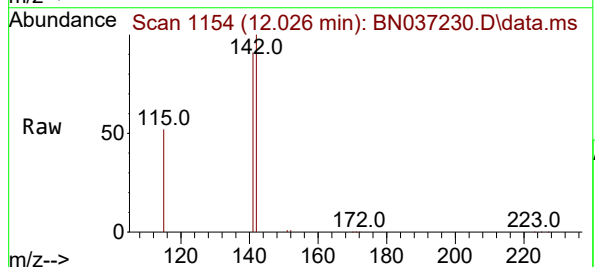
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

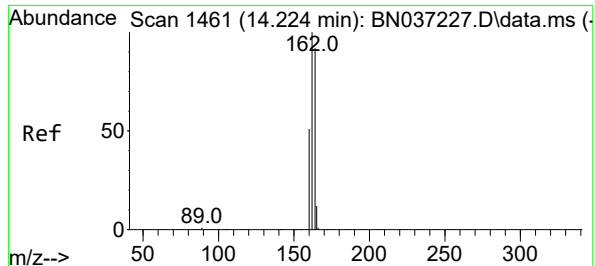
Tgt Ion:152 Resp: 14468  
Ion Ratio Lower Upper  
152 100  
151 21.4 17.9 26.9



#12  
2-Methylnaphthalene  
Concen: 3.392 ng  
RT: 12.026 min Scan# 1154  
Delta R.T. -0.005 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

Tgt Ion:142 Resp: 19566  
Ion Ratio Lower Upper  
142 100  
141 91.0 73.0 109.6  
115 51.5 43.3 64.9

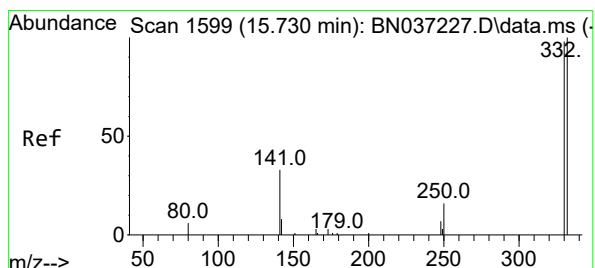
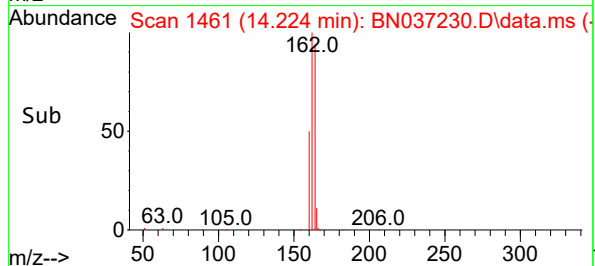
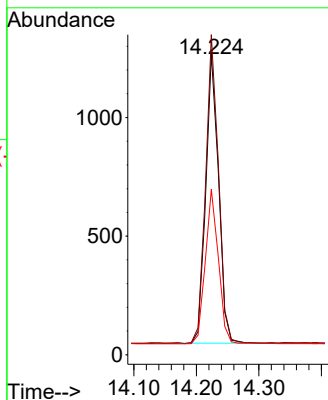
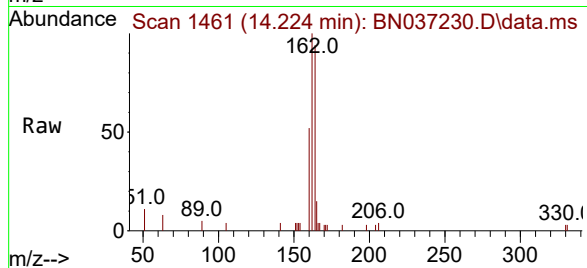




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.224 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

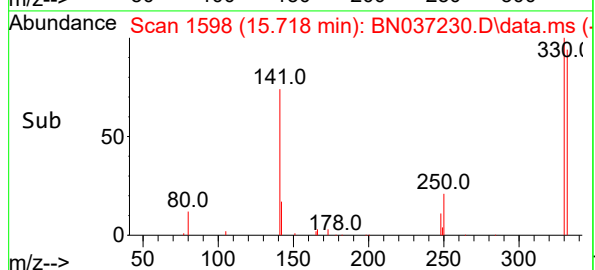
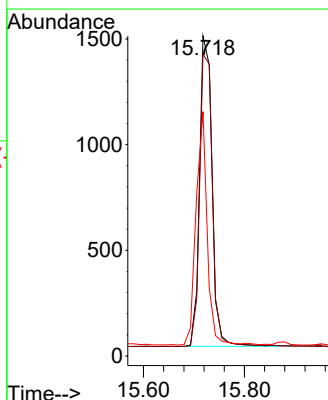
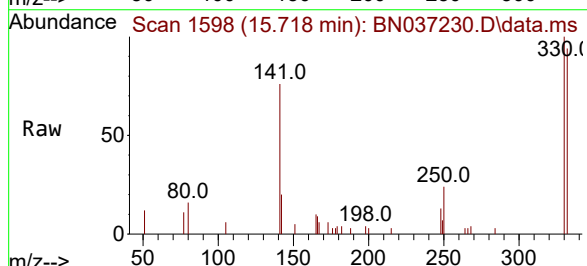
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

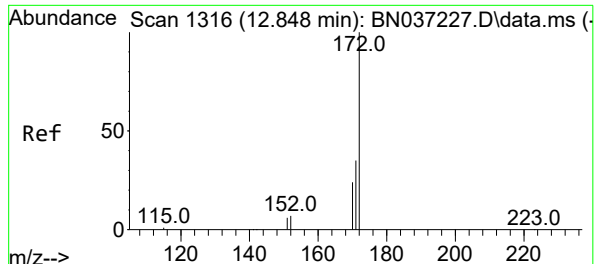
Tgt Ion:164 Resp: 1730  
Ion Ratio Lower Upper  
164 100  
162 106.3 86.7 130.1  
160 55.0 45.8 68.6



#14  
2,4,6-Tribromophenol  
Concen: 3.521 ng  
RT: 15.718 min Scan# 1598  
Delta R.T. -0.012 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

Tgt Ion:330 Resp: 2530  
Ion Ratio Lower Upper  
330 100  
332 96.8 74.9 112.3  
141 67.2 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 3.384 ng

RT: 12.843 min Scan# 1315

Delta R.T. -0.005 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

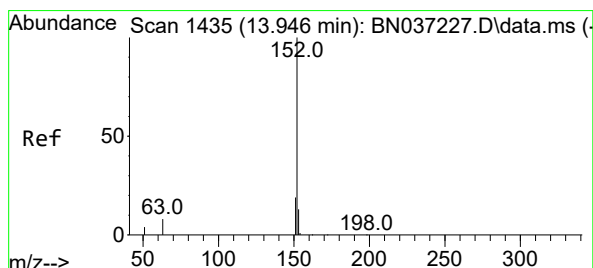
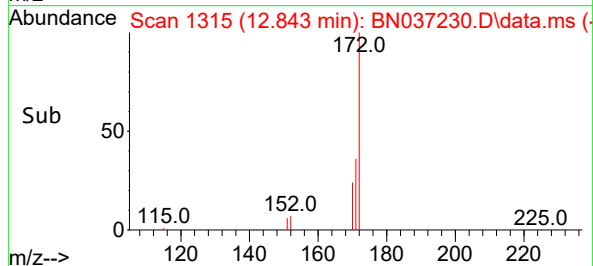
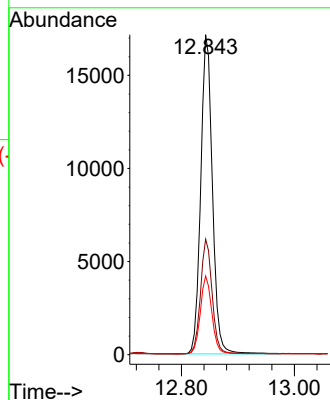
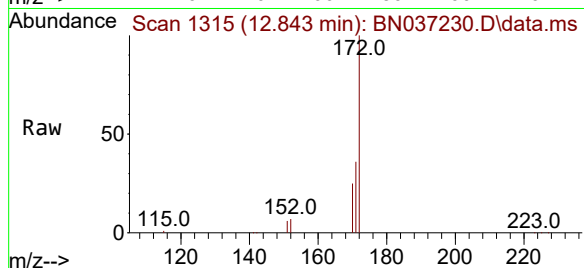
Tgt Ion:172 Resp: 24600

Ion Ratio Lower Upper

172 100

171 36.1 29.8 44.8

170 24.6 21.1 31.7



#16

Acenaphthylene

Concen: 3.366 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

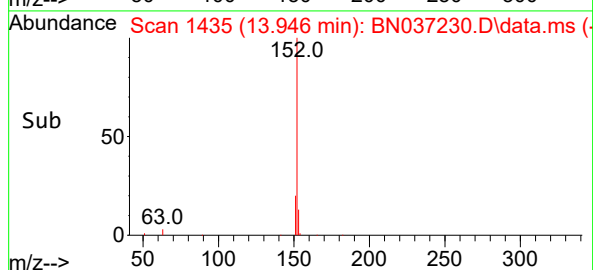
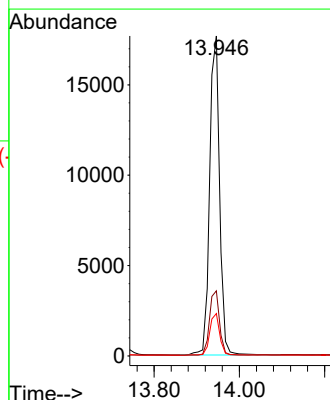
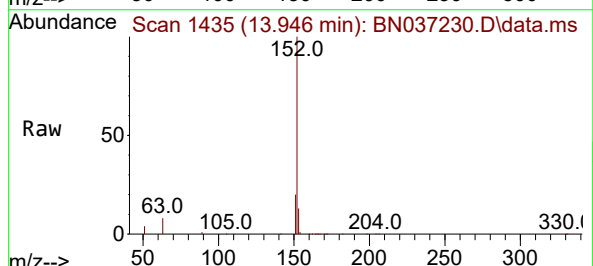
Tgt Ion:152 Resp: 28536

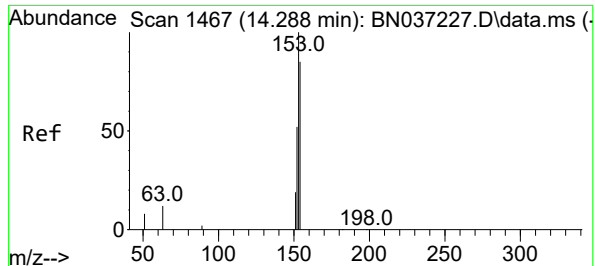
Ion Ratio Lower Upper

152 100

151 20.3 15.7 23.5

153 12.9 10.7 16.1

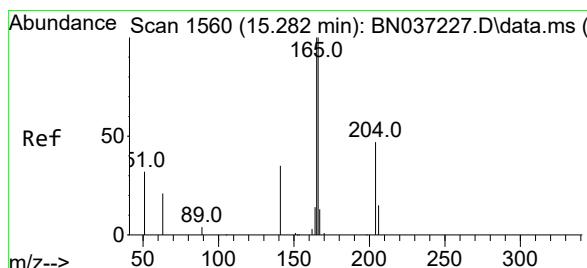
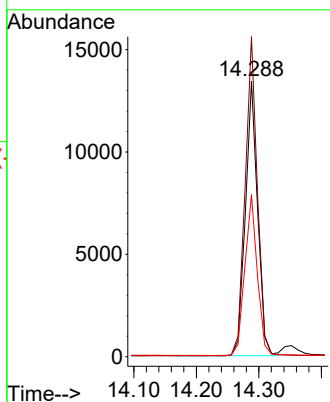
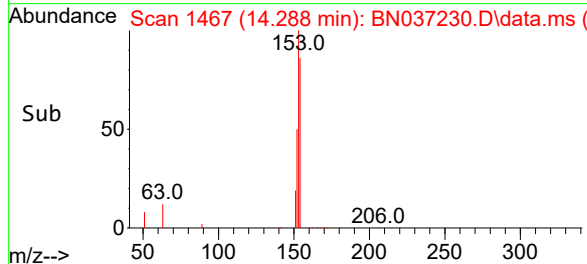
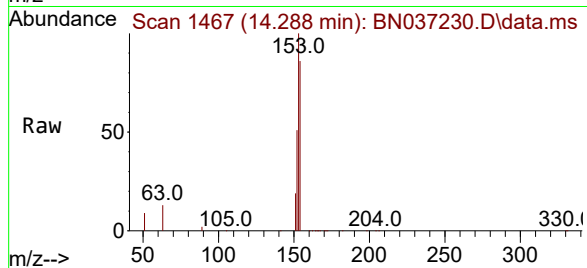




#17  
Acenaphthene  
Concen: 3.334 ng  
RT: 14.288 min Scan# 1467  
Delta R.T. 0.000 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

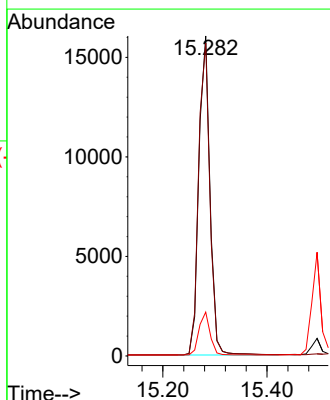
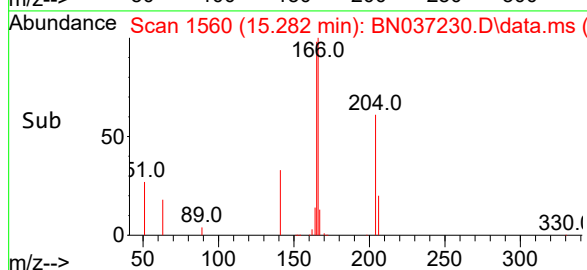
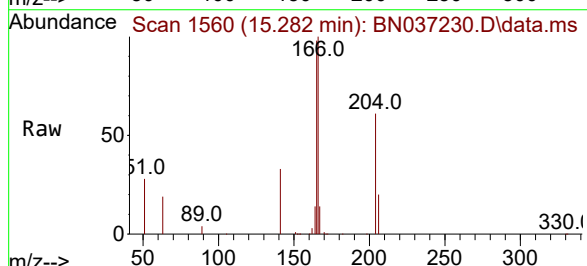
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

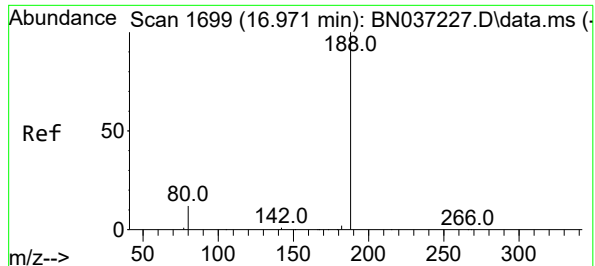
Tgt Ion:154 Resp: 18242  
Ion Ratio Lower Upper  
154 100  
153 116.2 94.6 141.8  
152 60.0 49.6 74.4



#18  
Fluorene  
Concen: 3.375 ng  
RT: 15.282 min Scan# 1560  
Delta R.T. 0.000 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

Tgt Ion:166 Resp: 23723  
Ion Ratio Lower Upper  
166 100  
165 99.9 79.8 119.6  
167 13.4 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

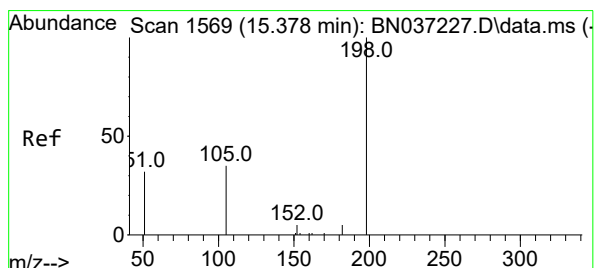
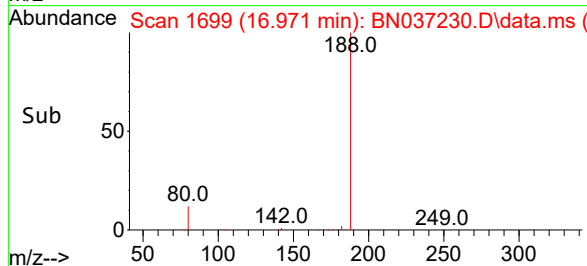
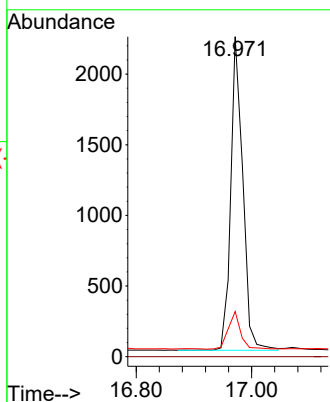
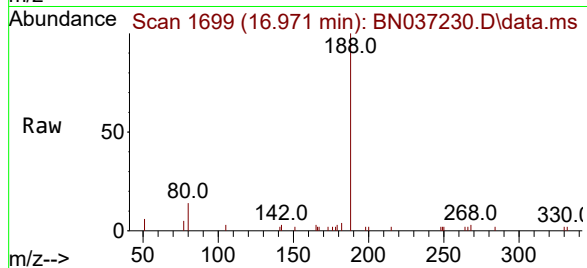
Tgt Ion:188 Resp: 3218

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 14.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 3.223 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

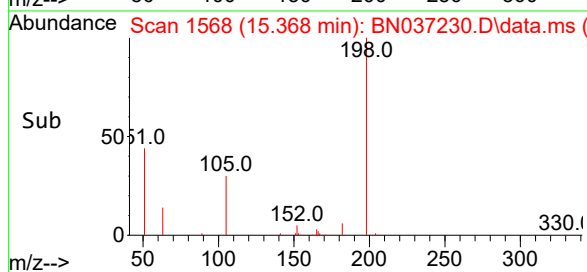
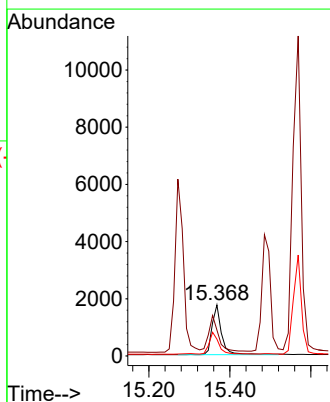
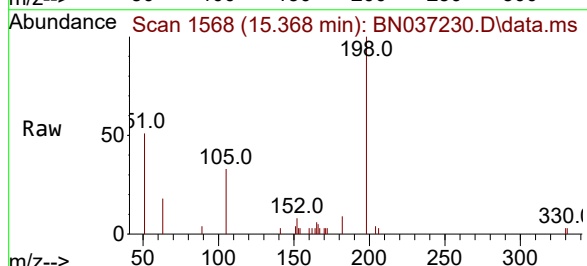
Tgt Ion:198 Resp: 2836

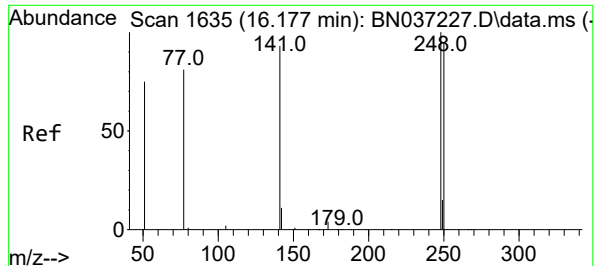
Ion Ratio Lower Upper

198 100

51 50.6 111.2 166.8#

105 32.9 54.0 81.0#





#21

4-Bromophenyl-phenylether

Concen: 3.389 ng

RT: 16.177 min Scan# 1635

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

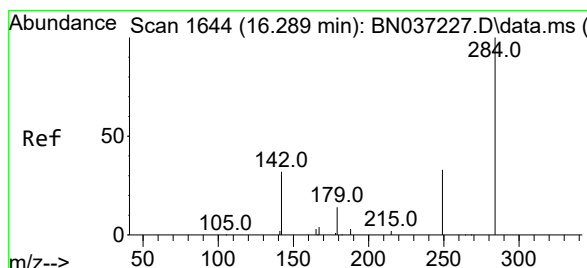
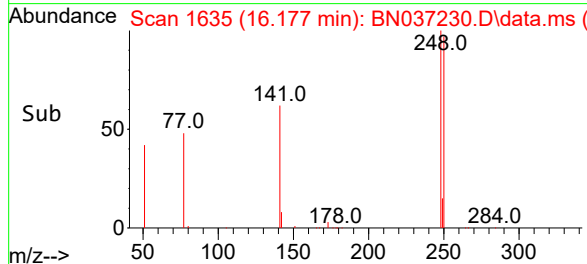
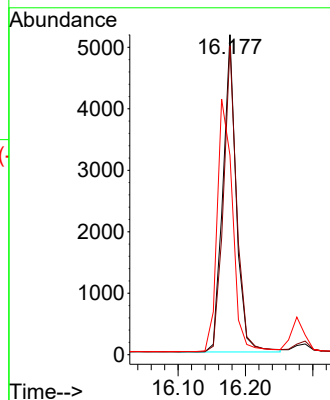
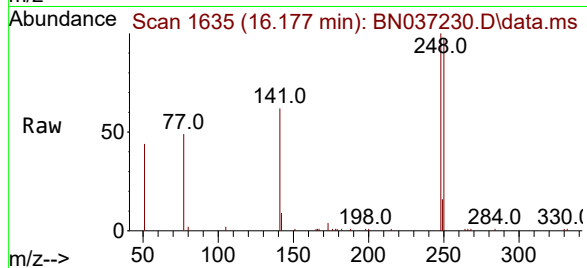
Tgt Ion:248 Resp: 7106

Ion Ratio Lower Upper

248 100

250 96.6 76.8 115.2

141 62.3 75.6 113.4#



#22

Hexachlorobenzene

Concen: 3.006 ng

RT: 16.289 min Scan# 1644

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

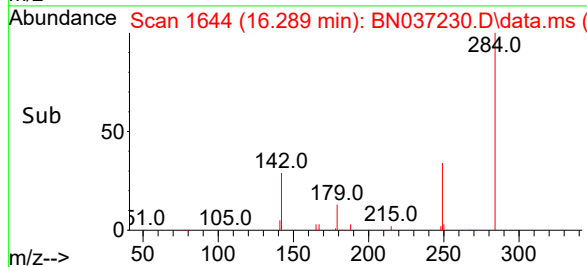
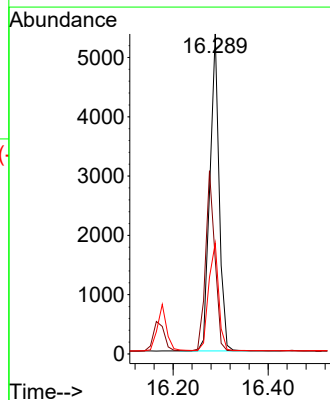
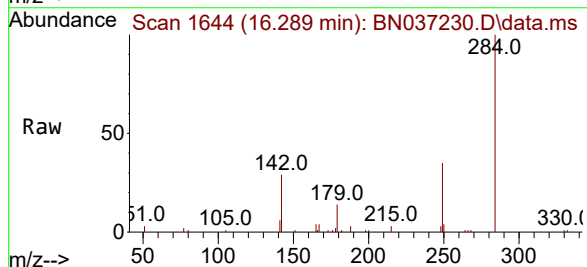
Tgt Ion:284 Resp: 7308

Ion Ratio Lower Upper

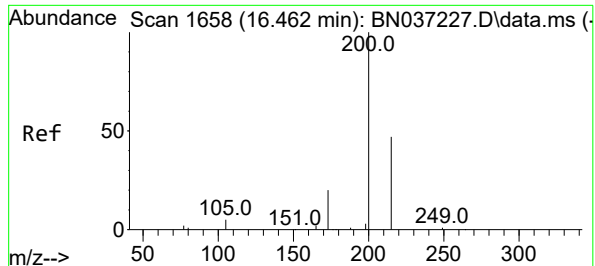
284 100

142 57.3 43.8 65.6

249 36.7 28.4 42.6



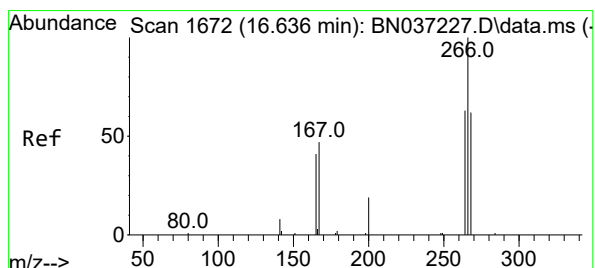
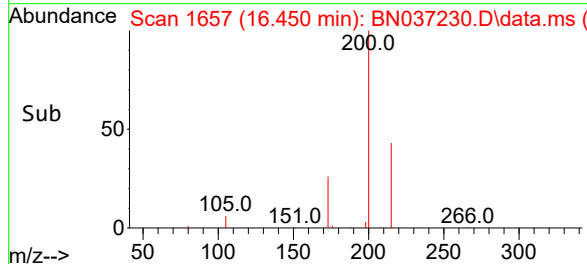
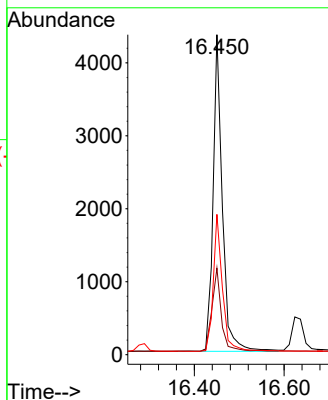
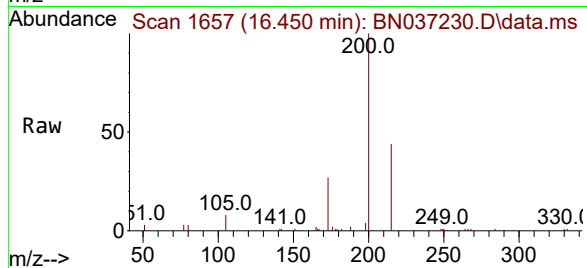




#23  
Atrazine  
Concen: 3.311 ng  
RT: 16.450 min Scan# 1657  
Delta R.T. -0.012 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

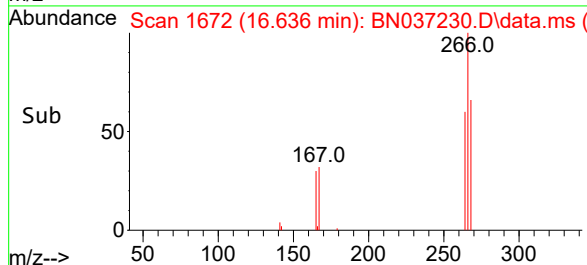
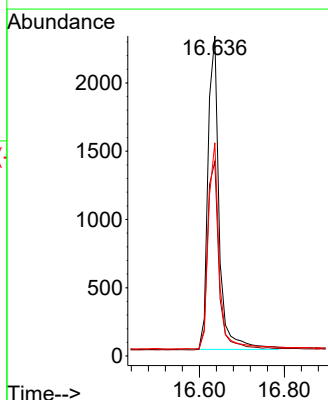
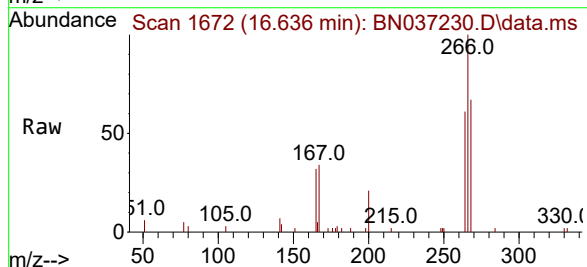
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC3.2

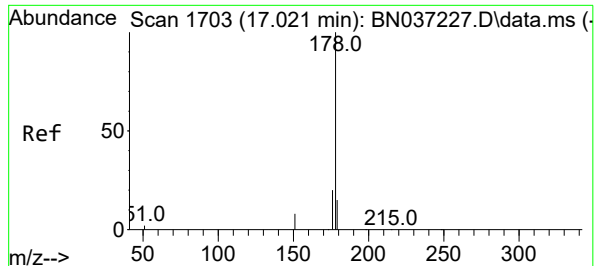
Tgt Ion:200 Resp: 6193  
Ion Ratio Lower Upper  
200 100  
173 27.0 25.1 37.7  
215 43.8 43.7 65.5



#24  
Pentachlorophenol  
Concen: 3.508 ng  
RT: 16.636 min Scan# 1672  
Delta R.T. 0.000 min  
Lab File: BN037230.D  
Acq: 13 Jun 2025 16:35

Tgt Ion:266 Resp: 4179  
Ion Ratio Lower Upper  
266 100  
264 62.2 49.2 73.8  
268 64.6 53.4 80.2





#25

Phenanthrene

Concen: 3.349 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

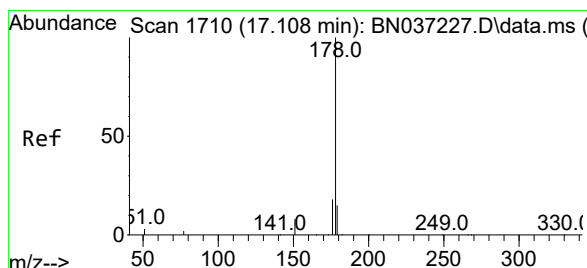
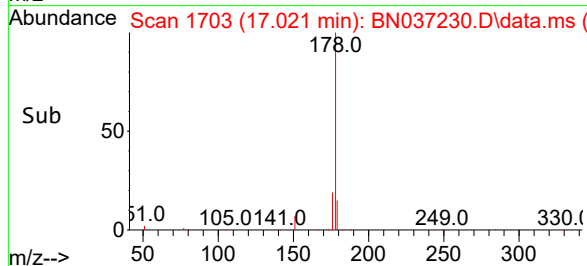
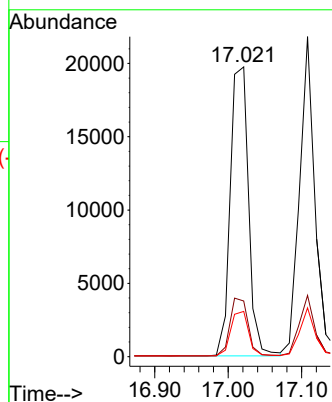
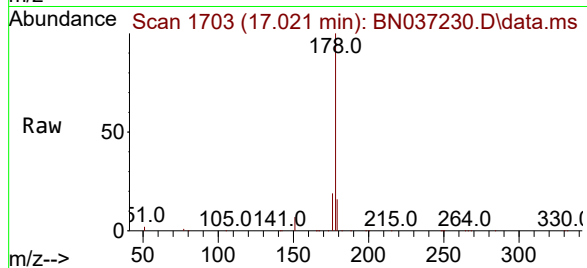
Tgt Ion:178 Resp: 34176

Ion Ratio Lower Upper

178 100

176 19.9 16.3 24.5

179 15.1 12.6 18.8



#26

Anthracene

Concen: 3.464 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

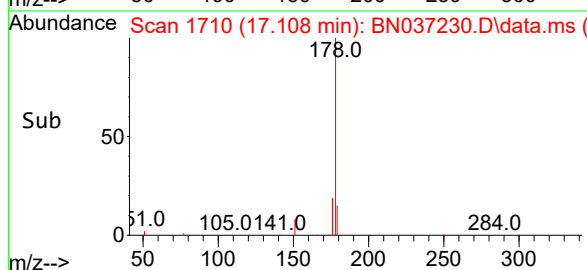
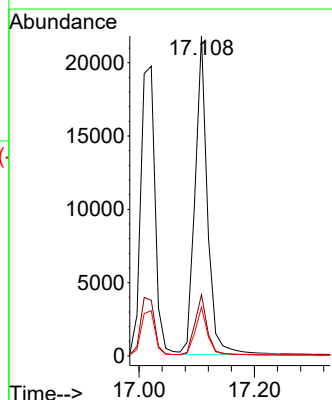
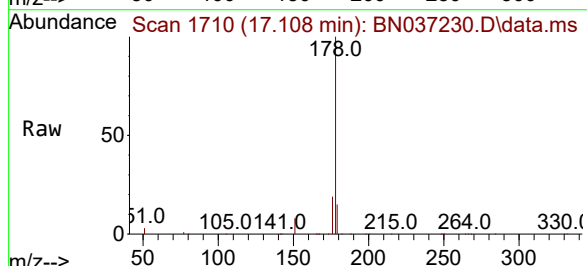
Tgt Ion:178 Resp: 32366

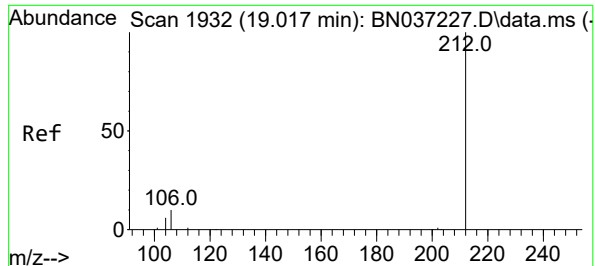
Ion Ratio Lower Upper

178 100

176 19.1 15.1 22.7

179 15.0 12.4 18.6





#27

Fluoranthene-d10

Concen: 3.188 ng

RT: 19.012 min Scan# 1931

Delta R.T. -0.004 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

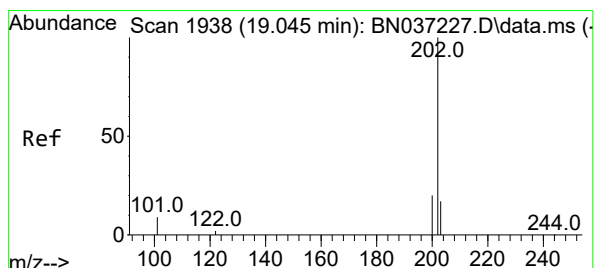
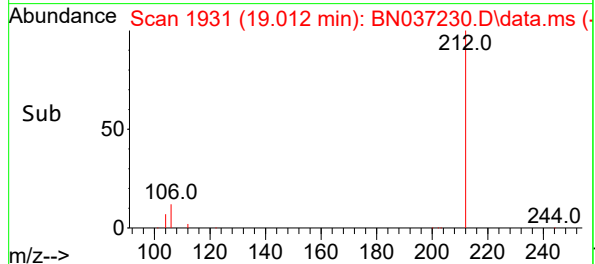
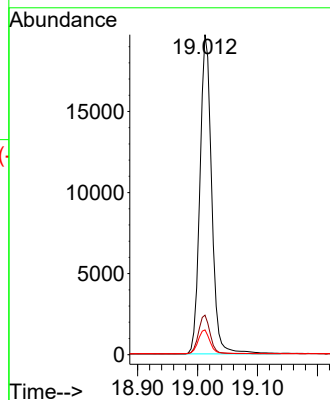
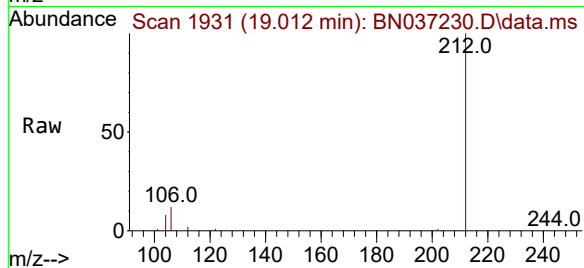
Tgt Ion:212 Resp: 26844

Ion Ratio Lower Upper

212 100

106 12.1 9.3 13.9

104 7.6 5.7 8.5



#28

Fluoranthene

Concen: 3.254 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

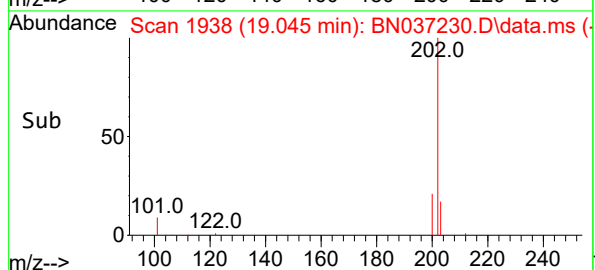
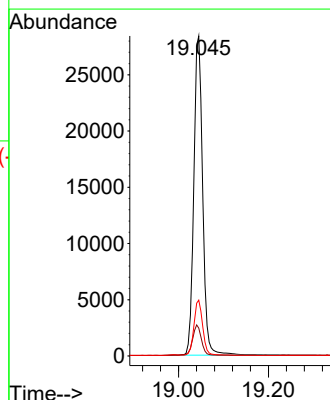
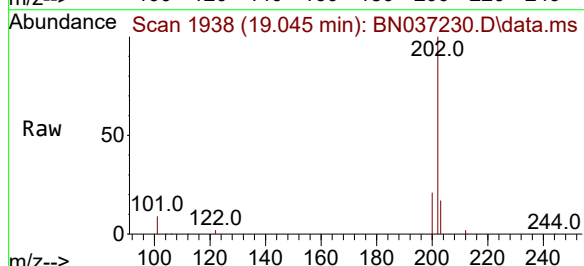
Tgt Ion:202 Resp: 38876

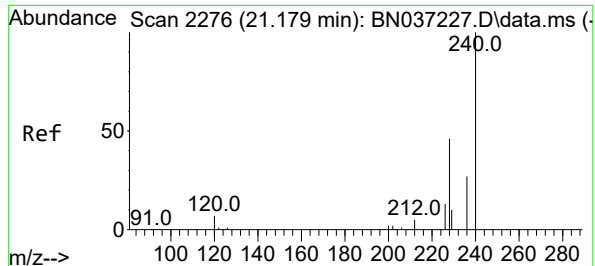
Ion Ratio Lower Upper

202 100

101 9.7 7.1 10.7

203 17.1 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

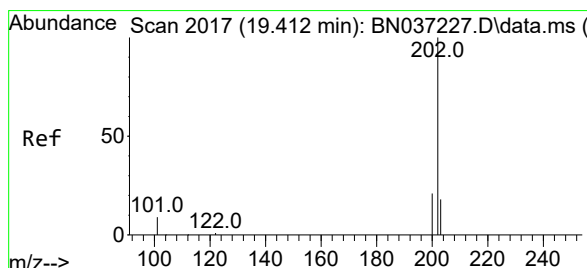
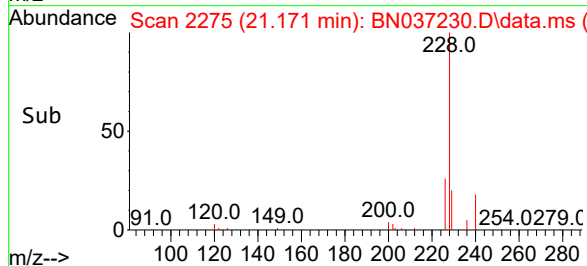
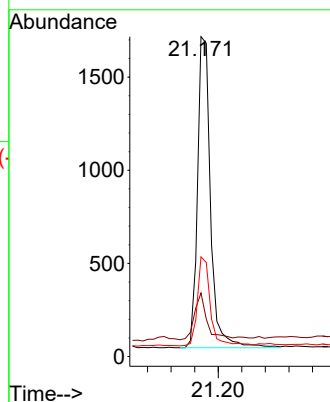
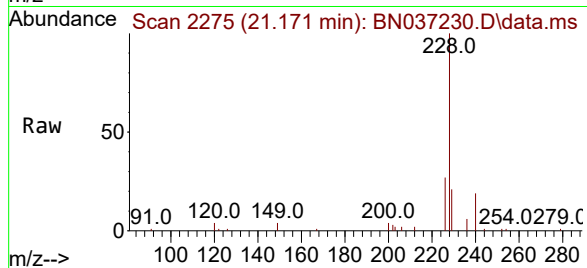
Tgt Ion:240 Resp: 2562

Ion Ratio Lower Upper

240 100

120 19.9 11.3 16.9#

236 31.2 24.4 36.6



#30

Pyrene

Concen: 3.219 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.004 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

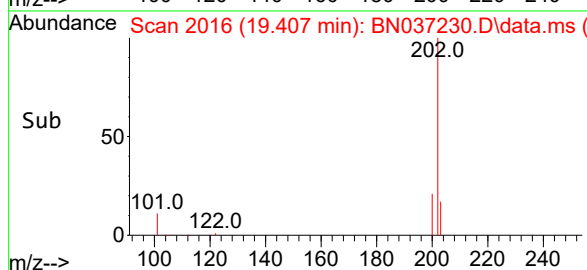
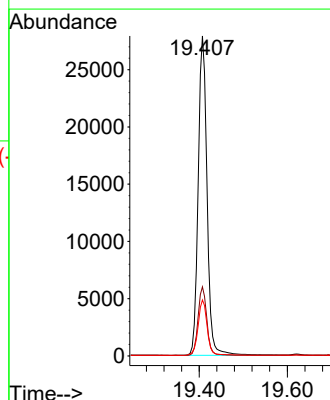
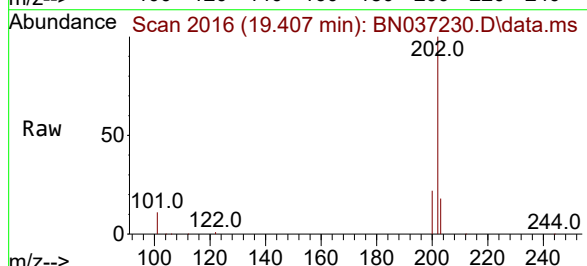
Tgt Ion:202 Resp: 38772

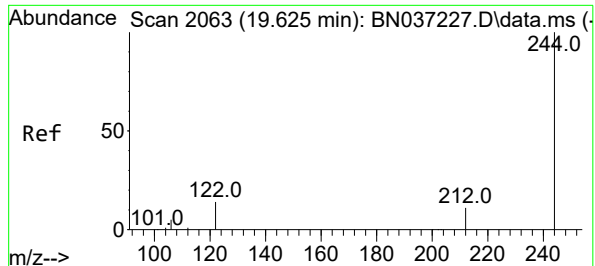
Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

203 17.7 14.3 21.5





#31

Terphenyl-d14

Concen: 3.323 ng

RT: 19.621 min Scan# 2062

Delta R.T. -0.004 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

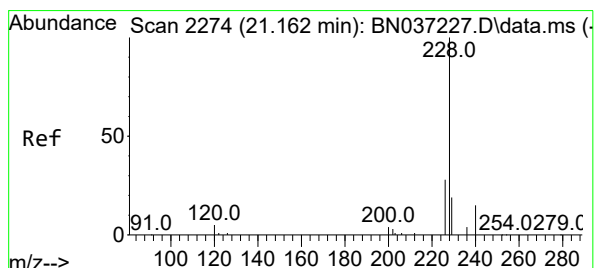
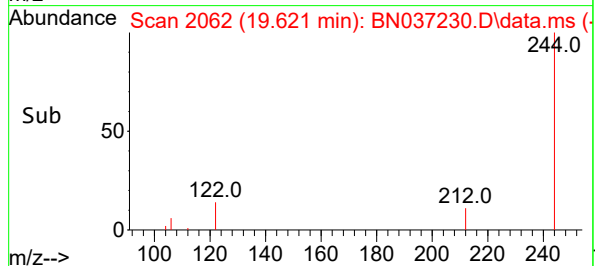
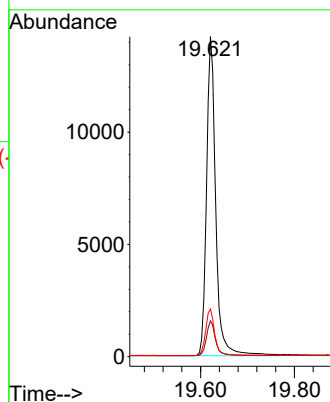
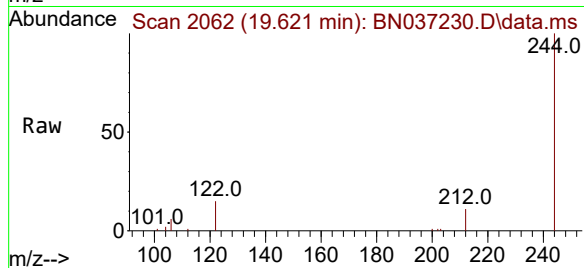
Tgt Ion:244 Resp: 19247

Ion Ratio Lower Upper

244 100

212 11.2 12.2 18.2#

122 14.9 14.3 21.5



#32

Benzo(a)anthracene

Concen: 3.571 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

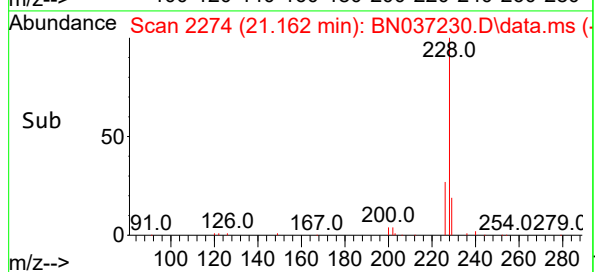
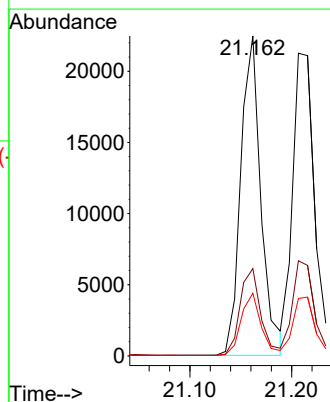
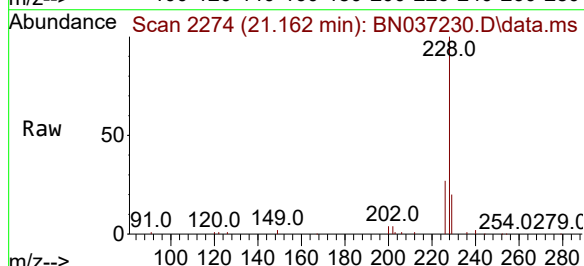
Tgt Ion:228 Resp: 30893

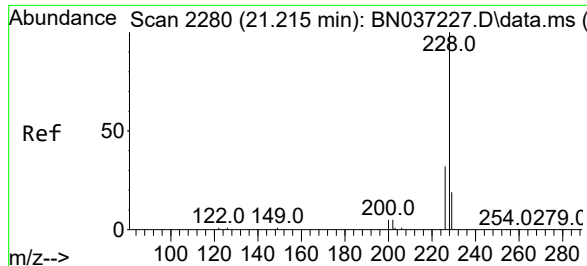
Ion Ratio Lower Upper

228 100

226 27.3 23.8 35.8

229 19.6 17.0 25.4





#33

Chrysene

Concen: 3.106 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

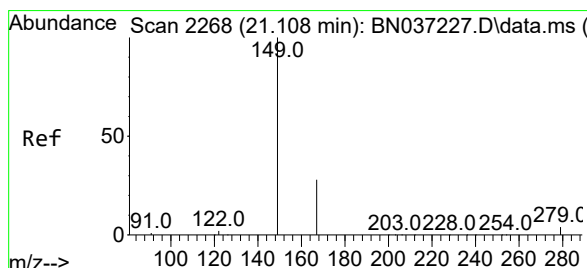
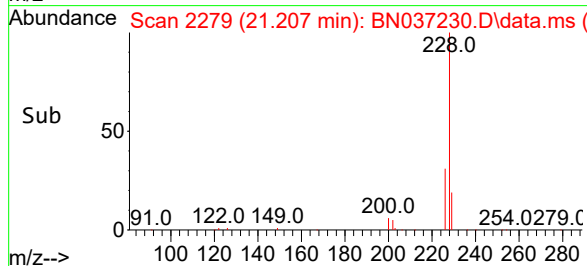
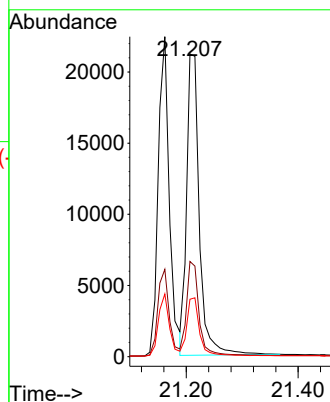
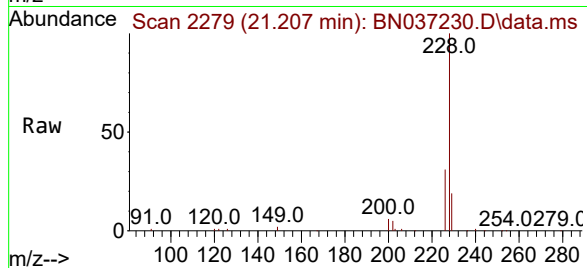
Tgt Ion:228 Resp: 33474

Ion Ratio Lower Upper

228 100

226 31.4 25.8 38.6

229 19.0 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 2.996 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

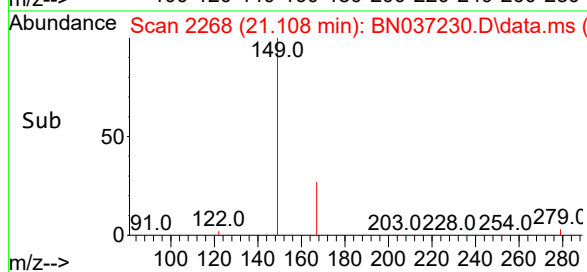
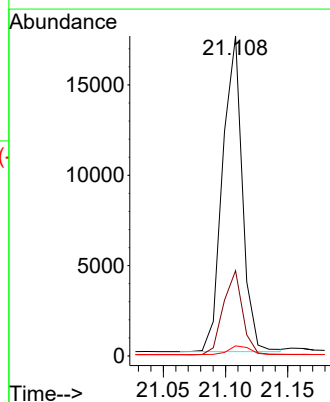
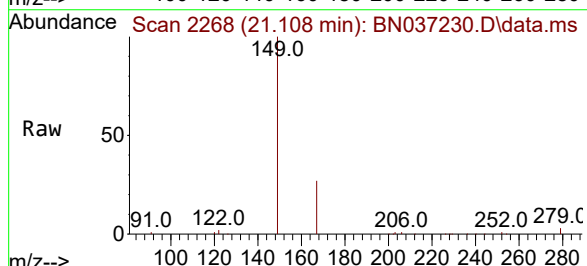
Tgt Ion:149 Resp: 19300

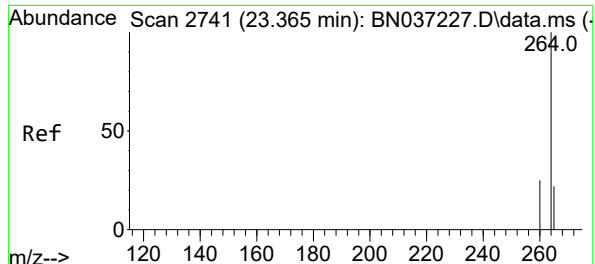
Ion Ratio Lower Upper

149 100

167 26.1 21.3 31.9

279 3.0 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

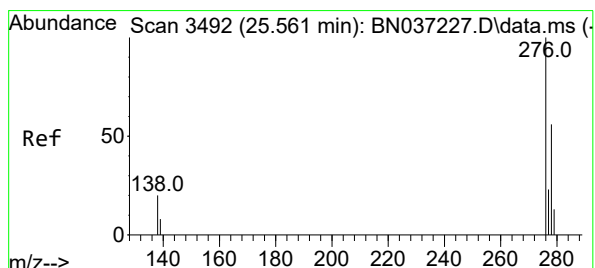
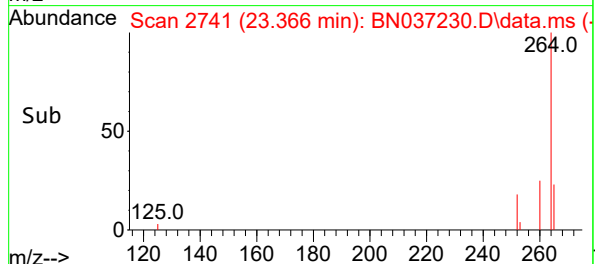
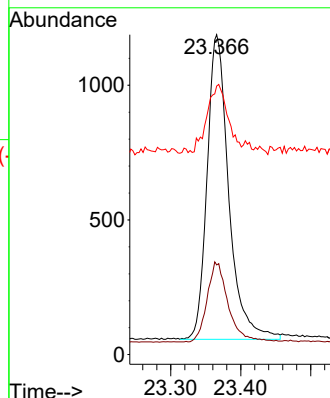
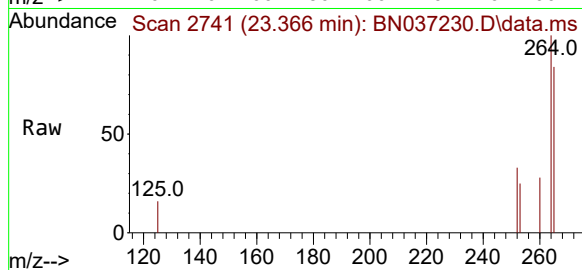
Tgt Ion:264 Resp: 2434

Ion Ratio Lower Upper

264 100

260 28.0 22.8 34.2

265 83.9 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 3.486 ng

RT: 25.556 min Scan# 3490

Delta R.T. -0.006 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

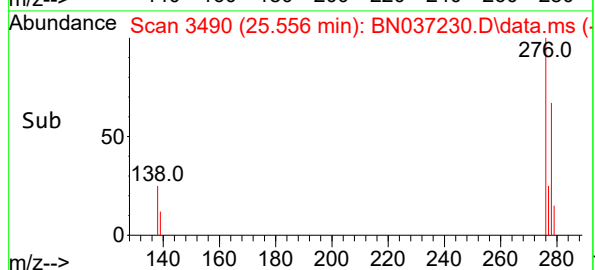
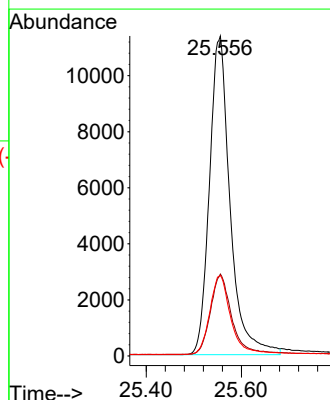
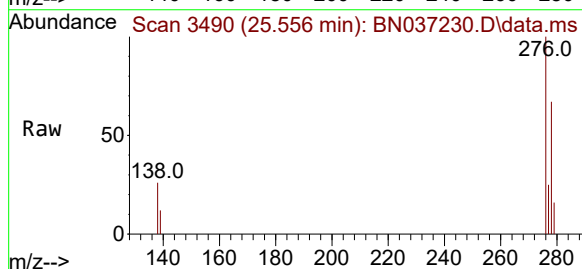
Tgt Ion:276 Resp: 34219

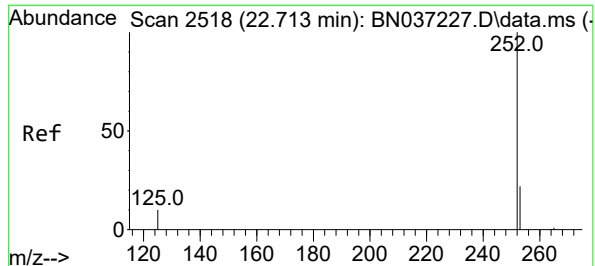
Ion Ratio Lower Upper

276 100

138 25.9 16.8 25.2#

277 25.3 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 3.447 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2

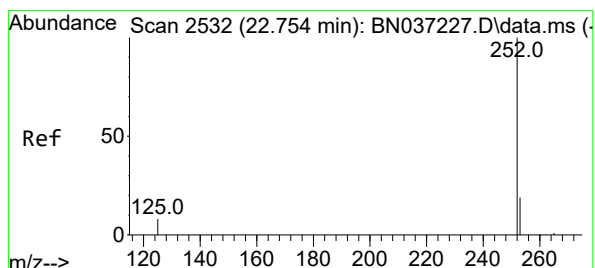
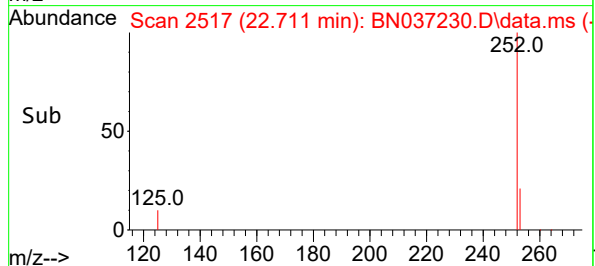
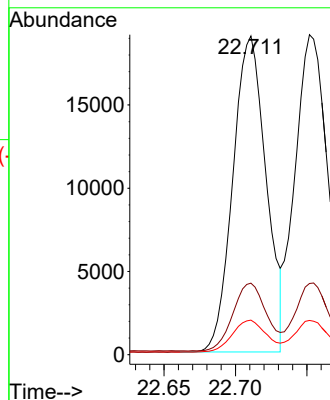
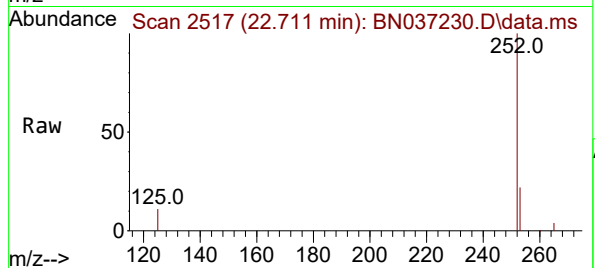
Tgt Ion:252 Resp: 30687

Ion Ratio Lower Upper

252 100

253 22.5 24.9 37.3#

125 10.8 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 3.248 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037230.D

Acq: 13 Jun 2025 16:35

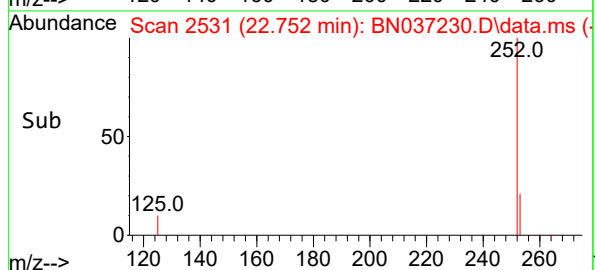
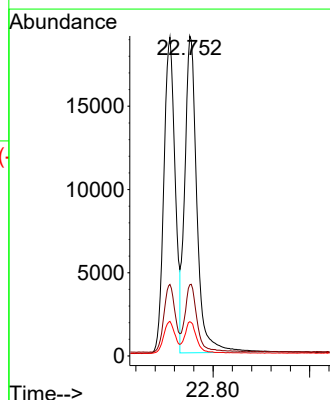
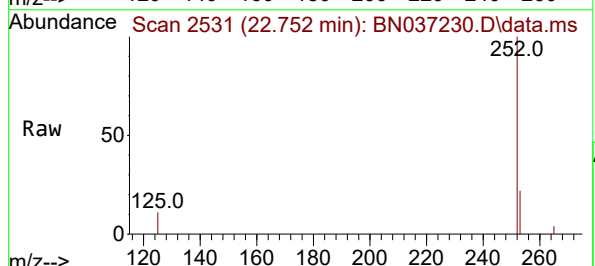
Tgt Ion:252 Resp: 33172

Ion Ratio Lower Upper

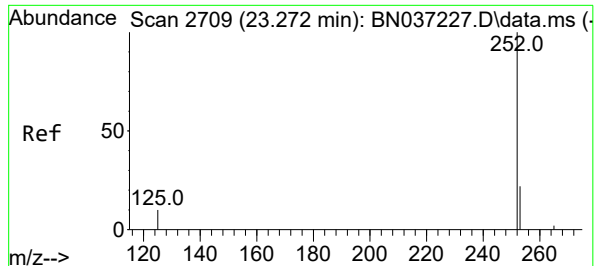
252 100

253 22.2 24.6 37.0#

125 10.7 13.4 20.2#







#39

Benzo(a)pyrene

Concen: 3.361 ng

RT: 23.269 min Scan# 21

Delta R.T. -0.003 min

Lab File: BN037230.D

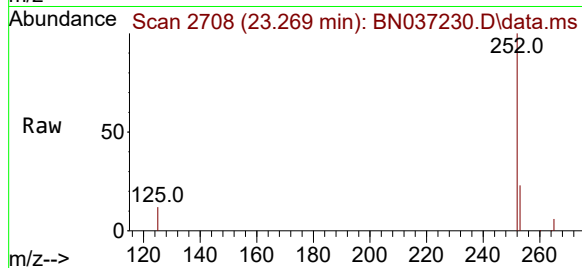
Acq: 13 Jun 2025 16:35

Instrument :

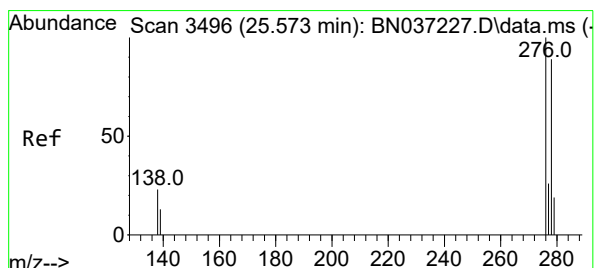
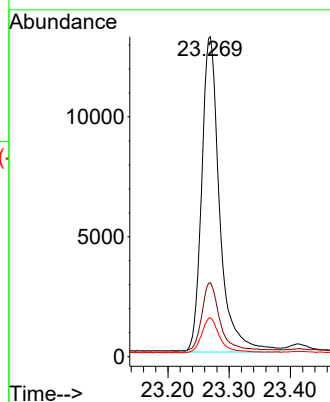
BNA\_N

ClientSampleId :

SSTDICC3.2



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 26918 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 23.2  | 29.4  | 44.2# |
| 125       | 12.2  | 16.2  | 24.2# |



#40

Dibenzo(a,h)anthracene

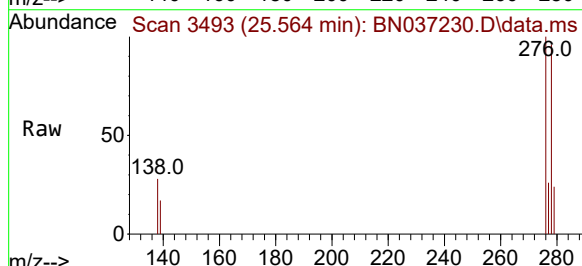
Concen: 3.751 ng

RT: 25.564 min Scan# 3493

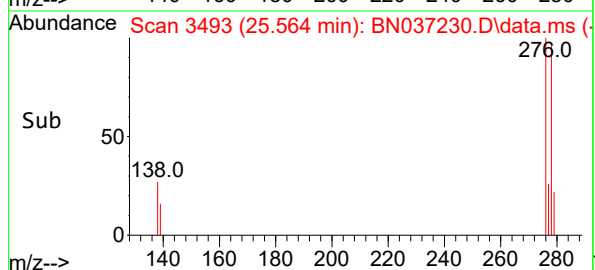
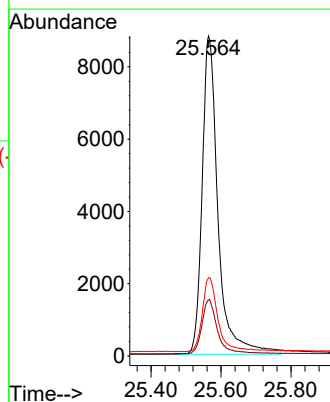
Delta R.T. -0.009 min

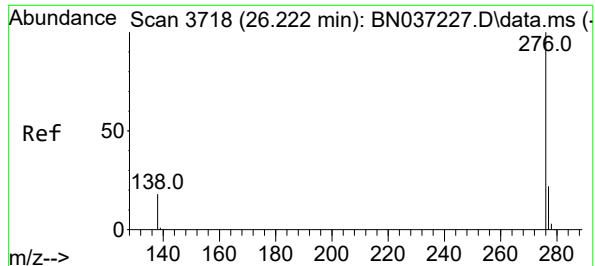
Lab File: BN037230.D

Acq: 13 Jun 2025 16:35



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 27744 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 17.4  | 17.8  | 26.6# |
| 279       | 24.5  | 31.3  | 46.9# |





#41

Benzo(g,h,i)perylene

Concen: 3.350 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037230.D

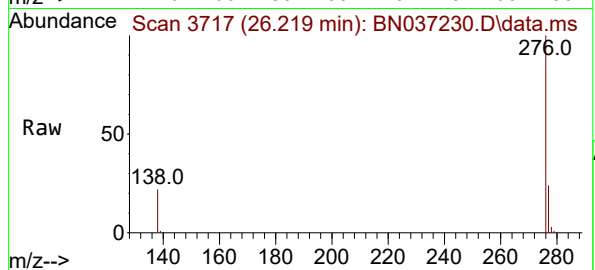
Acq: 13 Jun 2025 16:35

Instrument :

BNA\_N

ClientSampleId :

SSTDICC3.2



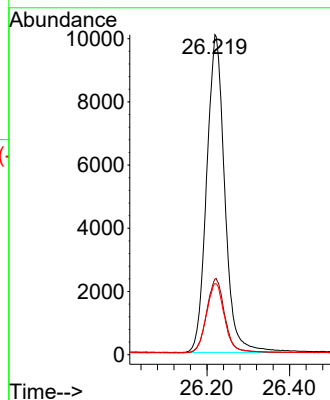
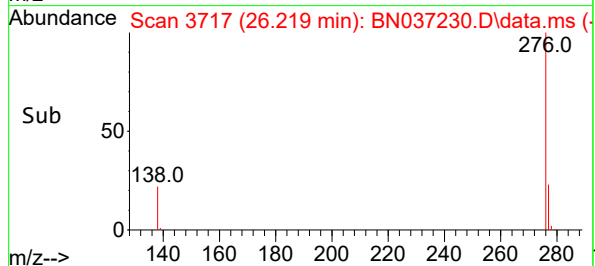
Tgt Ion:276 Resp: 30489

Ion Ratio Lower Upper

276 100

277 23.6 22.0 33.0

138 22.2 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037231.D  
 Acq On : 13 Jun 2025 17:11  
 Operator : RC/JU  
 Sample : SSTDICC5.0  
 Misc :  
 ALS Vial : 9 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC5.0

Quant Time: Jun 13 18:38:52 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:34:15 2025  
 Response via : Initial Calibration

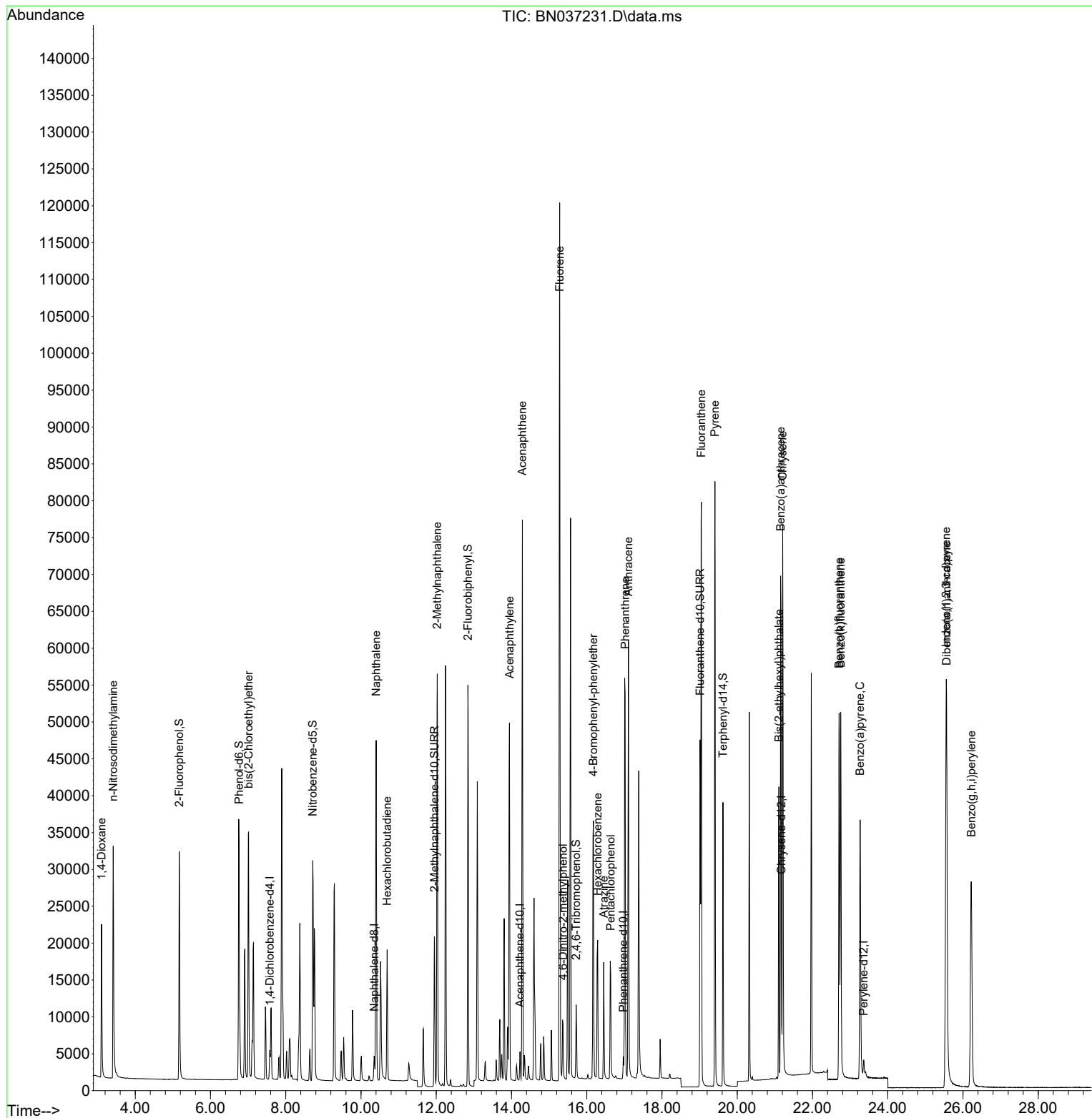
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1719     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.351 | 136  | 3927     | 0.400 | ng    | #-0.01    |
| 13) Acenaphthene-d10          | 14.224 | 164  | 2088     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 16.971 | 188  | 3744     | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.171 | 240  | 3121     | 0.400 | ng    | 0.00      |
| 35) Perylene-d12              | 23.360 | 264  | 2895     | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.170  | 112  | 20890    | 4.948 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.759  | 99   | 25211    | 5.666 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.717  | 82   | 22243    | 5.731 | ng    | -0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.950 | 152  | 27140    | 5.150 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.718 | 330  | 4635     | 5.344 | ng    | -0.01     |
| 15) 2-Fluorobiphenyl          | 12.843 | 172  | 44772    | 5.103 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.012 | 212  | 50205    | 5.125 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.621 | 244  | 36062    | 5.111 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.104  | 88   | 10450    | 4.431 | ng    | Qvalue 92 |
| 3) n-Nitrosodimethylamine     | 3.415  | 42   | 24357    | 4.533 | ng    | 94        |
| 6) bis(2-Chloroethyl)ether    | 7.012  | 93   | 22354    | 5.609 | ng    | 94        |
| 9) Naphthalene                | 10.404 | 128  | 56880    | 5.002 | ng    | 94        |
| 10) Hexachlorobutadiene       | 10.692 | 225  | 12686    | 4.586 | ng    | # 98      |
| 12) 2-Methylnaphthalene       | 12.026 | 142  | 36587    | 5.292 | ng    | 98        |
| 16) Acenaphthylene            | 13.946 | 152  | 52739    | 5.154 | ng    | 99        |
| 17) Acenaphthene              | 14.288 | 154  | 33323    | 5.045 | ng    | 97        |
| 18) Fluorene                  | 15.282 | 166  | 43051    | 5.075 | ng    | 100       |
| 20) 4,6-Dinitro-2-methylph... | 15.368 | 198  | 5424     | 4.992 | ng    | # 36      |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 12785    | 5.240 | ng    | # 81      |
| 22) Hexachlorobenzene         | 16.289 | 284  | 13054    | 4.616 | ng    | 98        |
| 23) Atrazine                  | 16.450 | 200  | 11399    | 5.239 | ng    | # 87      |
| 24) Pentachlorophenol         | 16.636 | 266  | 8014     | 5.782 | ng    | 97        |
| 25) Phenanthrene              | 17.021 | 178  | 62123    | 5.232 | ng    | 99        |
| 26) Anthracene                | 17.108 | 178  | 59009    | 5.429 | ng    | 99        |
| 28) Fluoranthene              | 19.045 | 202  | 71952    | 5.177 | ng    | 98        |
| 30) Pyrene                    | 19.407 | 202  | 72342    | 4.930 | ng    | 99        |
| 32) Benzo(a)anthracene        | 21.153 | 228  | 58498    | 5.551 | ng    | 97        |
| 33) Chrysene                  | 21.206 | 228  | 63057    | 4.803 | ng    | 98        |
| 34) Bis(2-ethylhexyl)phtha... | 21.108 | 149  | 37466    | 4.774 | ng    | # 99      |
| 36) Indeno(1,2,3-cd)pyrene    | 25.552 | 276  | 65610    | 5.620 | ng    | # 94      |
| 37) Benzo(b)fluoranthene      | 22.708 | 252  | 58631    | 5.536 | ng    | # 85      |
| 38) Benzo(k)fluoranthene      | 22.749 | 252  | 62537    | 5.148 | ng    | # 85      |
| 39) Benzo(a)pyrene            | 23.266 | 252  | 51138    | 5.368 | ng    | # 78      |
| 40) Dibenzo(a,h)anthracene    | 25.564 | 278  | 51648    | 5.871 | ng    | # 81      |
| 41) Benzo(g,h,i)perylene      | 26.219 | 276  | 56339    | 5.204 | ng    | 96        |

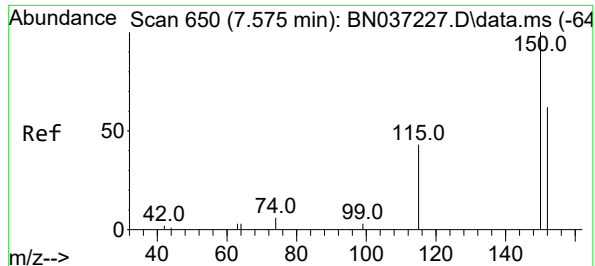
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037231.D  
Acq On : 13 Jun 2025 17:11  
Operator : RC/JU  
Sample : SSTDICC5.0  
Misc :  
ALS Vial : 9 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Quant Time: Jun 13 18:38:52 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:34:15 2025  
Response via : Initial Calibration

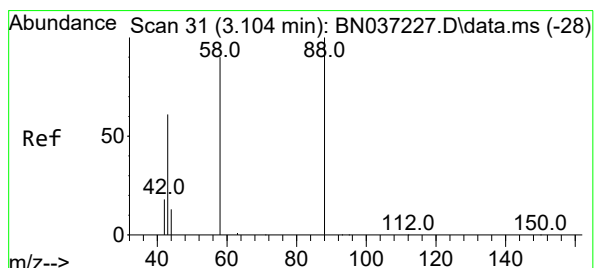
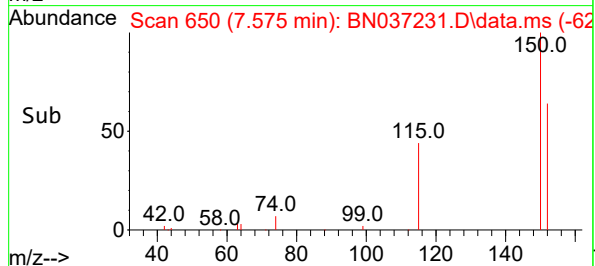
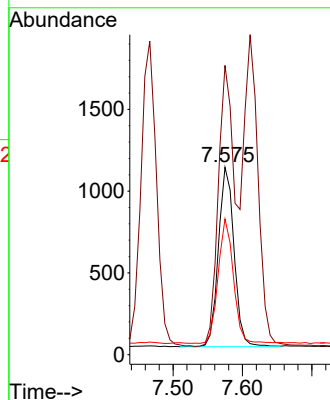
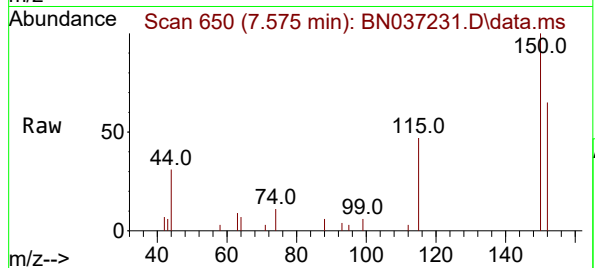




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

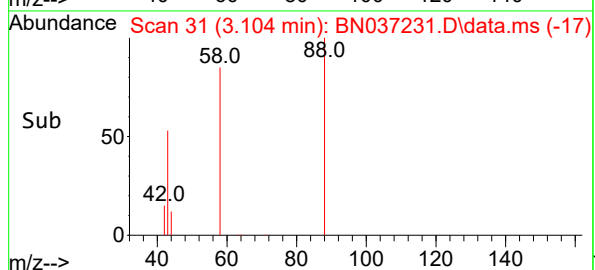
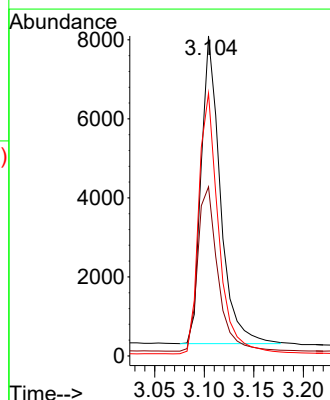
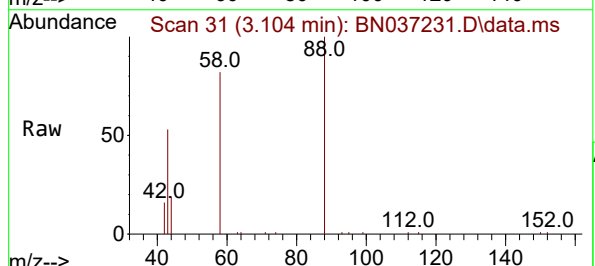
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

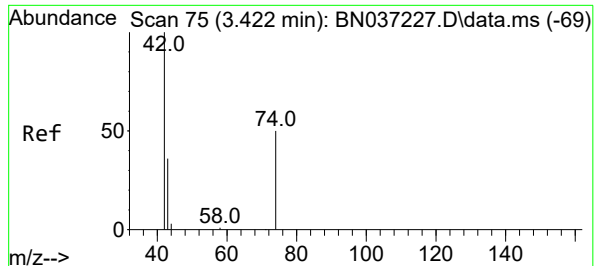
Tgt Ion:152 Resp: 1719  
Ion Ratio Lower Upper  
152 100  
150 154.4 125.2 187.8  
115 72.4 58.4 87.6



#2  
1,4-Dioxane  
Concen: 4.431 ng  
RT: 3.104 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

Tgt Ion: 88 Resp: 10450  
Ion Ratio Lower Upper  
88 100  
43 56.4 52.6 79.0  
58 87.7 73.5 110.3

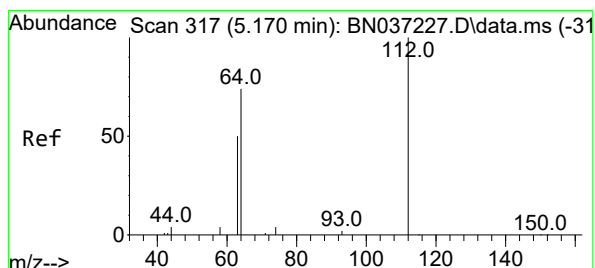
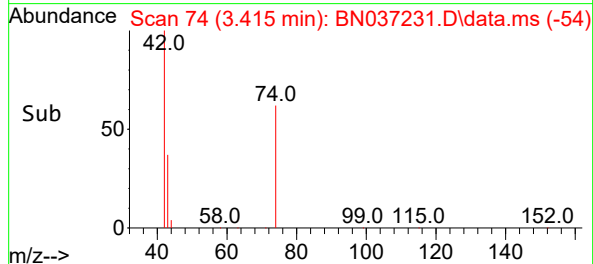
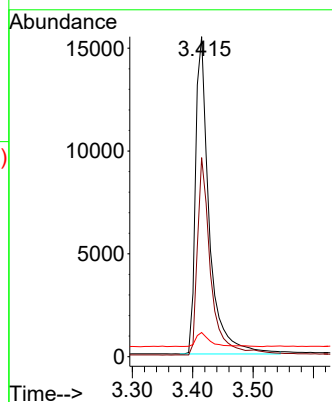
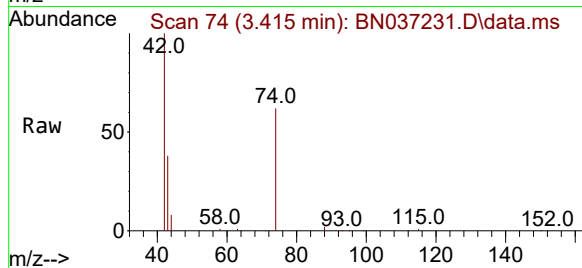




#3  
n-Nitrosodimethylamine  
Concen: 4.533 ng  
RT: 3.415 min Scan# 74  
Delta R.T. -0.007 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

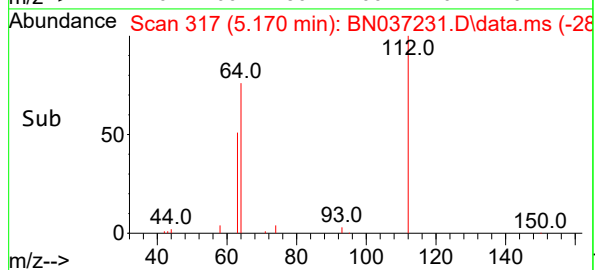
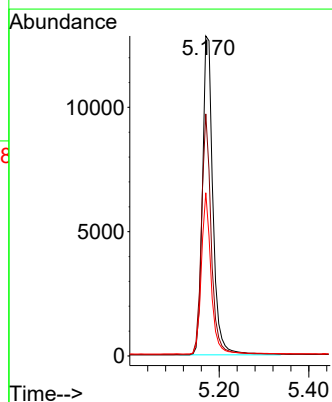
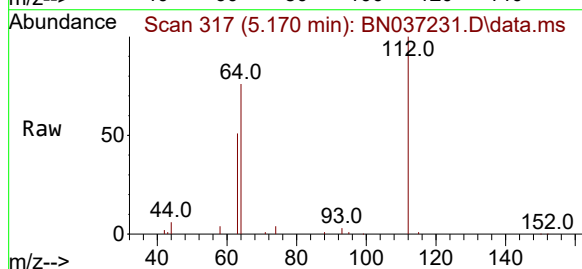
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

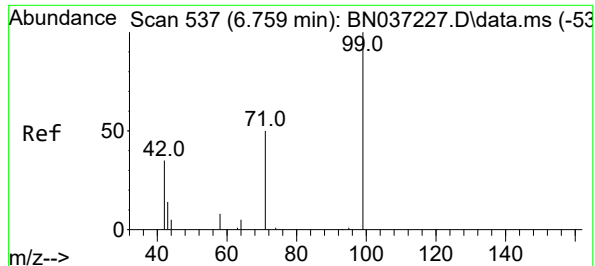
Tgt Ion: 42 Resp: 24357  
Ion Ratio Lower Upper  
42 100  
74 60.7 44.6 66.8  
44 4.7 3.5 5.3



#4  
2-Fluorophenol  
Concen: 4.948 ng  
RT: 5.170 min Scan# 317  
Delta R.T. 0.000 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

Tgt Ion: 112 Resp: 20890  
Ion Ratio Lower Upper  
112 100  
64 70.8 57.2 85.8  
63 47.0 39.8 59.6

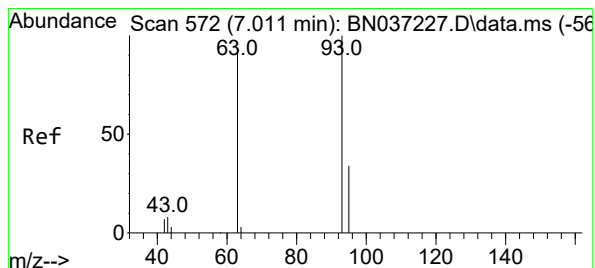
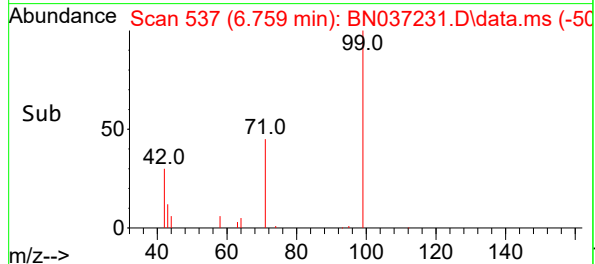
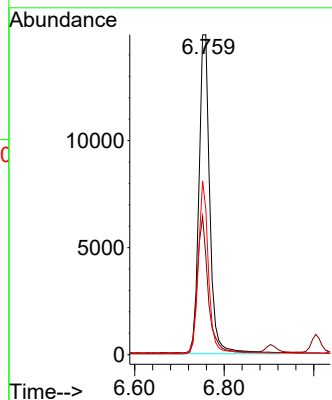
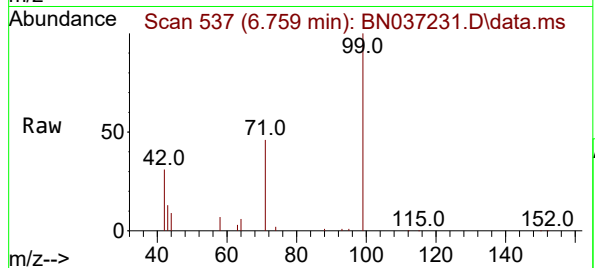




#5  
Phenol-d6  
Concen: 5.666 ng  
RT: 6.759 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

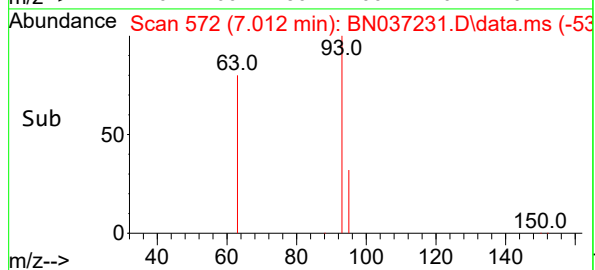
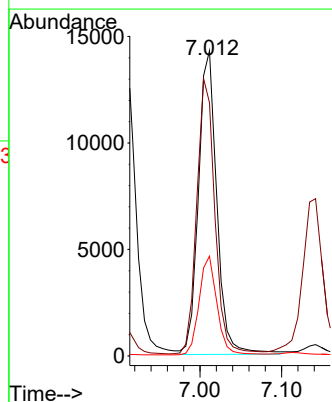
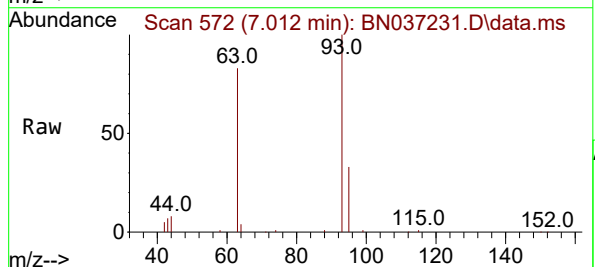
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

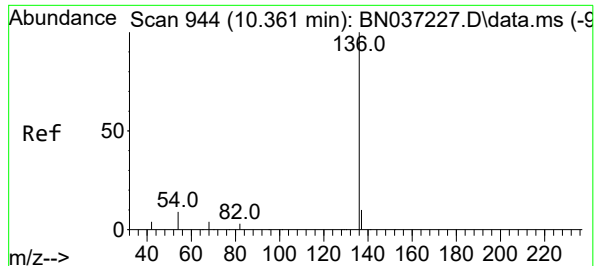
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 42.3  | 36.2  | 54.4  |
| 71      | 50.9  | 42.4  | 63.6  |



#6  
bis(2-Chloroethyl)ether  
Concen: 5.609 ng  
RT: 7.012 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 88.9  | 75.2  | 112.8 |
| 95      | 31.6  | 28.3  | 42.5  |

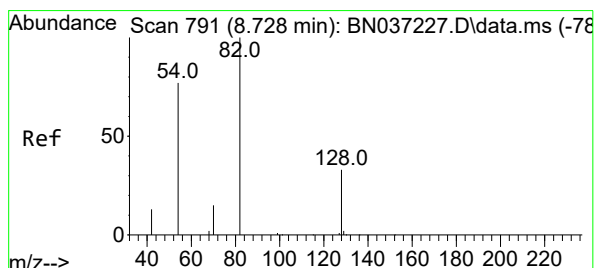
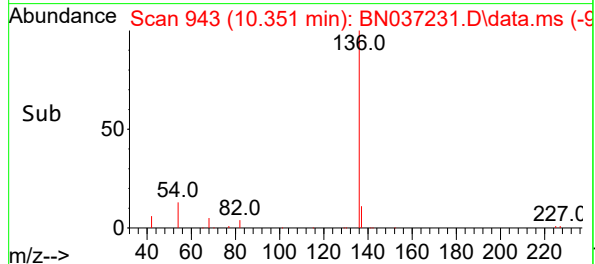
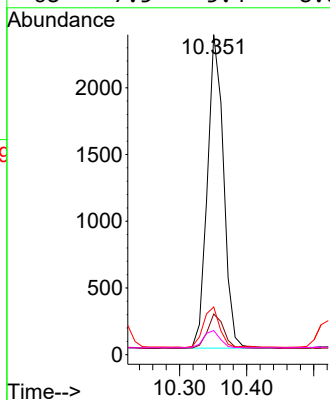
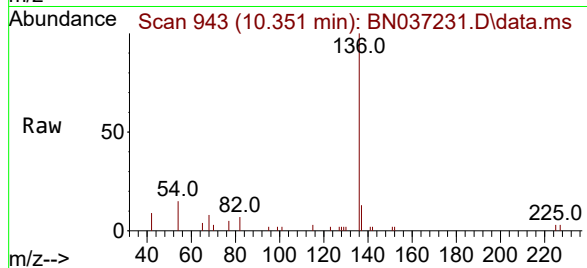




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 944  
Delta R.T. -0.011 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

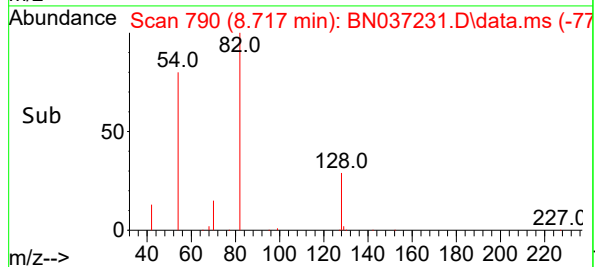
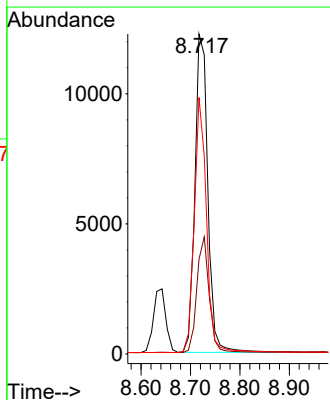
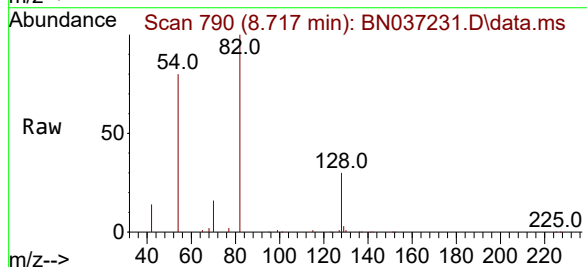
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:136 | Resp: | 3927        |
| Ion         | Ratio | Lower Upper |
| 136         | 100   |             |
| 137         | 12.7  | 10.6 15.8   |
| 54          | 14.9  | 9.2 13.8#   |
| 68          | 7.5   | 5.4 8.0     |

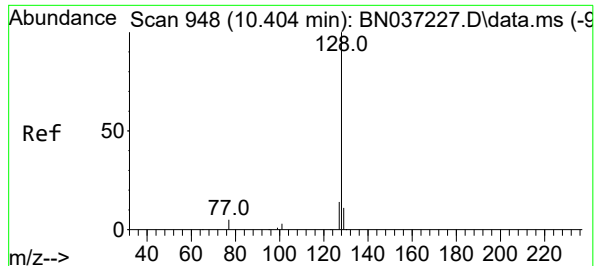


#8  
Nitrobenzene-d5  
Concen: 5.731 ng  
RT: 8.717 min Scan# 790  
Delta R.T. -0.011 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion: 82 | Resp: | 22243       |
| Ion         | Ratio | Lower Upper |
| 82          | 100   |             |
| 128         | 29.6  | 31.2 46.8#  |
| 54          | 80.1  | 63.3 94.9   |



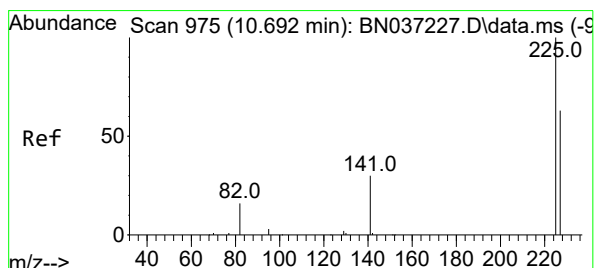
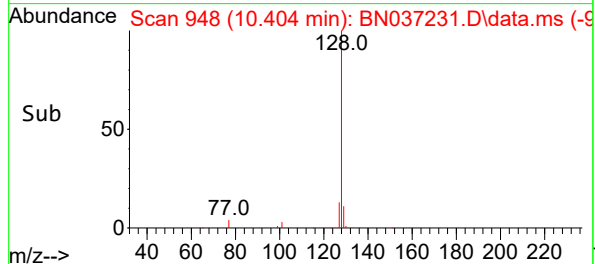
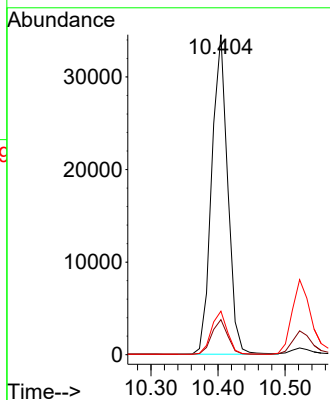
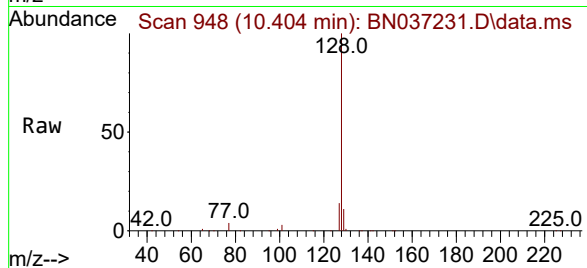




#9  
Naphthalene  
Concen: 5.002 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

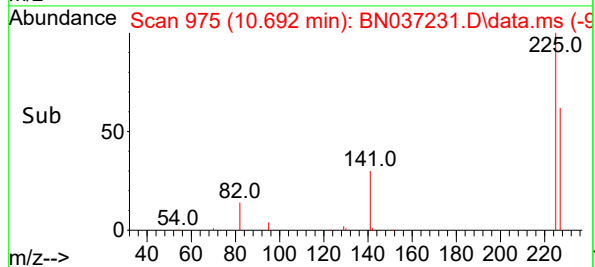
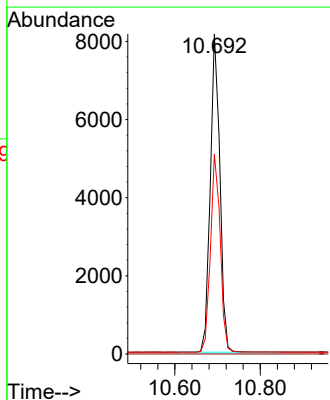
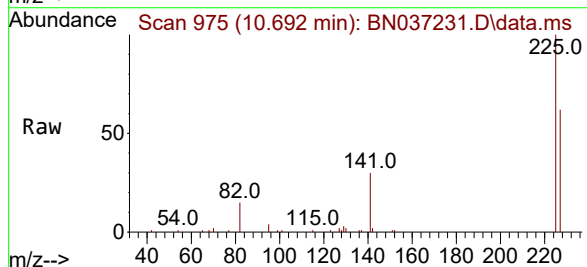
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

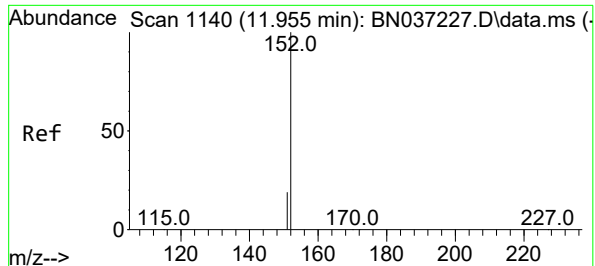
| Tgt Ion   | 128   | 129  | 127  |
|-----------|-------|------|------|
| Resp:     | 56880 |      |      |
| Ion Ratio | 100   | 10.9 | 13.6 |
| Lower     |       | 10.7 | 12.6 |
| Upper     |       | 16.1 | 19.0 |



#10  
Hexachlorobutadiene  
Concen: 4.586 ng  
RT: 10.692 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

| Tgt Ion   | 225   | 223 | 227  |
|-----------|-------|-----|------|
| Resp:     | 12686 |     |      |
| Ion Ratio | 100   | 0.0 | 63.2 |
| Lower     |       | 0.0 | 49.2 |
| Upper     |       | 0.0 | 73.8 |

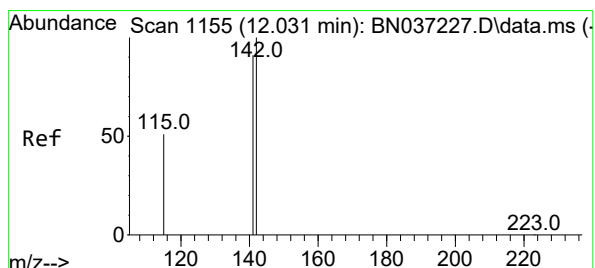
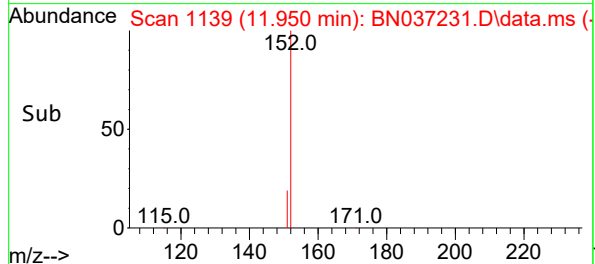
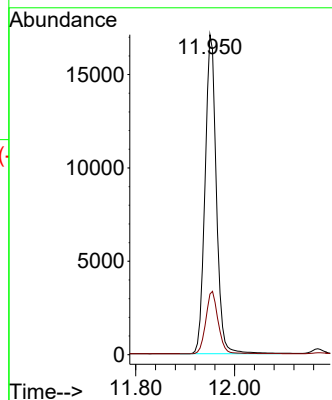
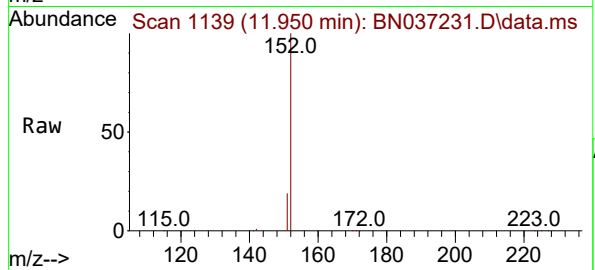




#11  
2-Methylnaphthalene-d10  
Concen: 5.150 ng  
RT: 11.950 min Scan# 1140  
Delta R.T. -0.005 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

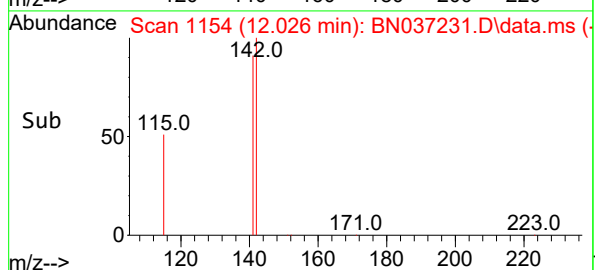
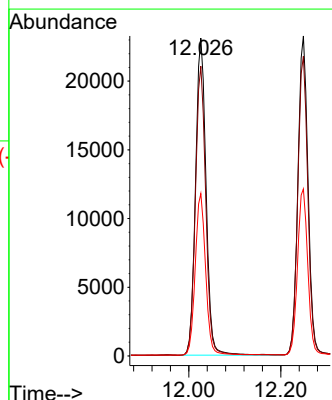
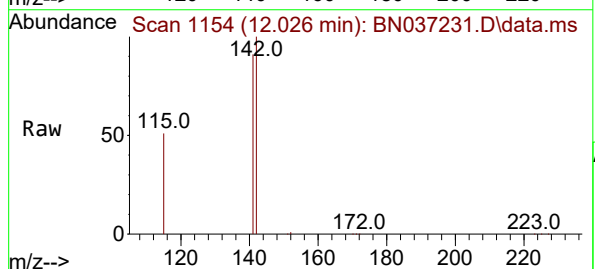
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

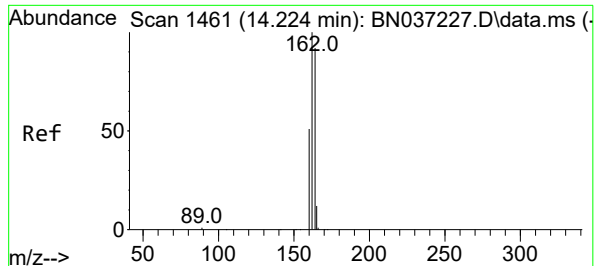
Tgt Ion:152 Resp: 27140  
Ion Ratio Lower Upper  
152 100  
151 21.4 17.9 26.9



#12  
2-Methylnaphthalene  
Concen: 5.292 ng  
RT: 12.026 min Scan# 1154  
Delta R.T. -0.005 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

Tgt Ion:142 Resp: 36587  
Ion Ratio Lower Upper  
142 100  
141 91.2 73.0 109.6  
115 51.1 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

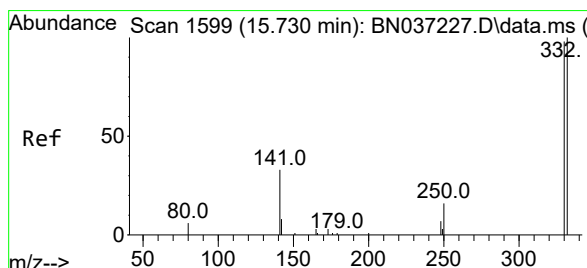
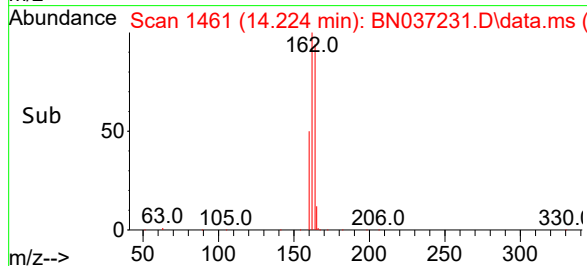
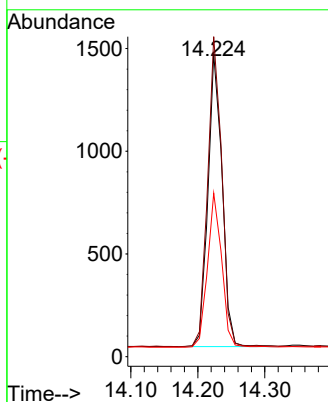
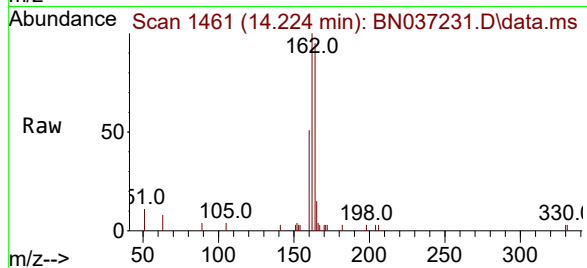
Tgt Ion:164 Resp: 2088

Ion Ratio Lower Upper

164 100

162 105.6 86.7 130.1

160 54.0 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 5.344 ng

RT: 15.718 min Scan# 1598

Delta R.T. -0.012 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

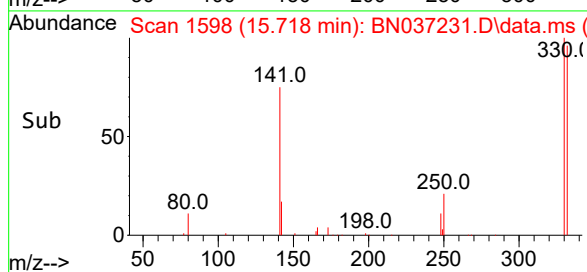
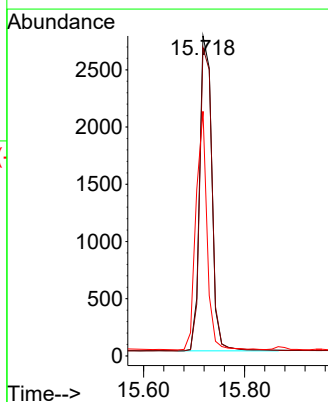
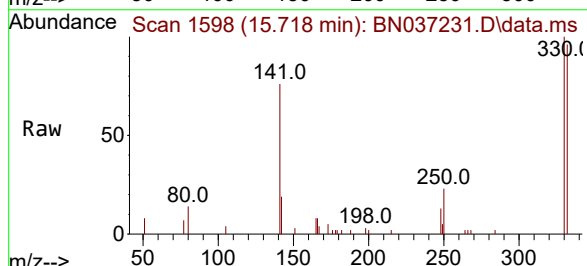
Tgt Ion:330 Resp: 4635

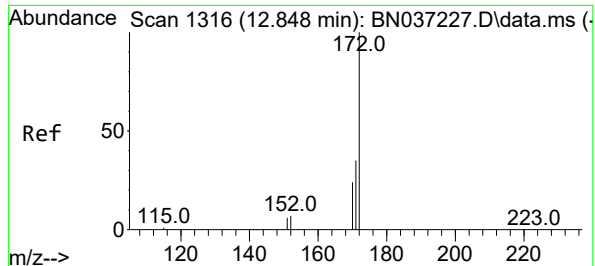
Ion Ratio Lower Upper

330 100

332 97.5 74.9 112.3

141 68.7 45.1 67.7#





#15

2-Fluorobiphenyl

Concen: 5.103 ng

RT: 12.843 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

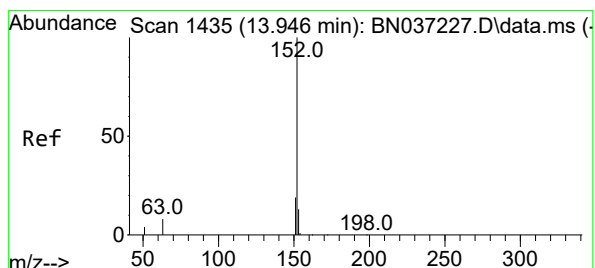
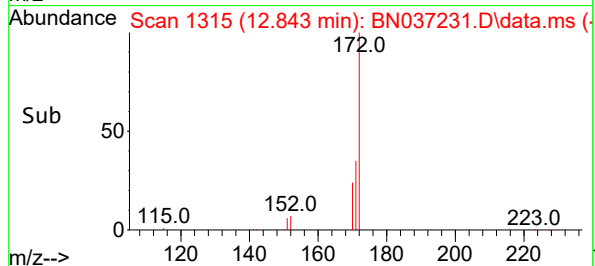
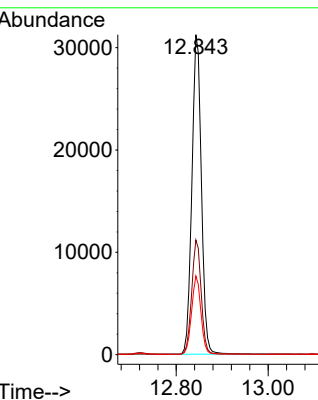
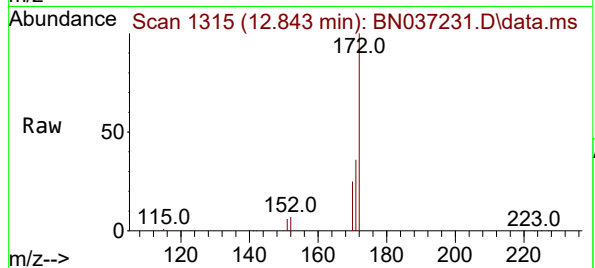
Tgt Ion:172 Resp: 44772

Ion Ratio Lower Upper

172 100

171 35.9 29.8 44.8

170 24.6 21.1 31.7



#16

Acenaphthylene

Concen: 5.154 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

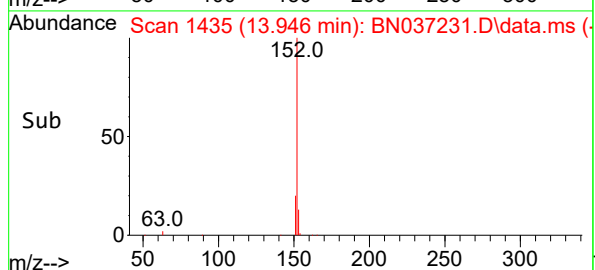
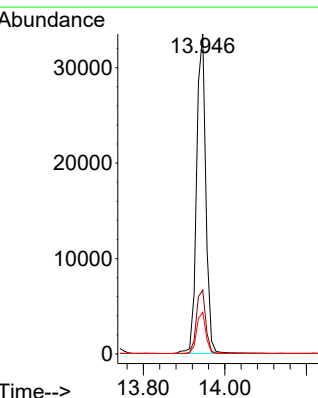
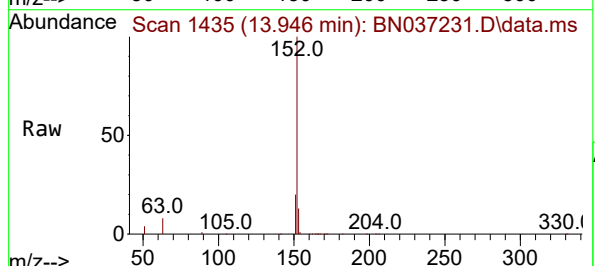
Tgt Ion:152 Resp: 52739

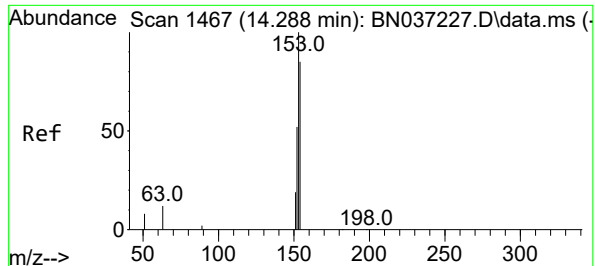
Ion Ratio Lower Upper

152 100

151 20.1 15.7 23.5

153 12.9 10.7 16.1





#17

Acenaphthene

Concen: 5.045 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

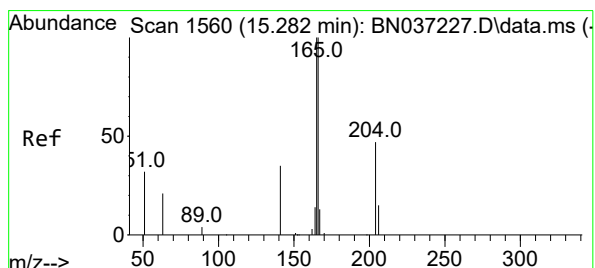
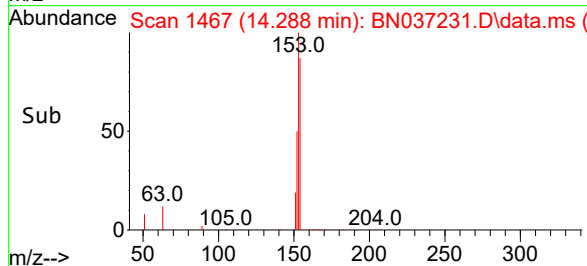
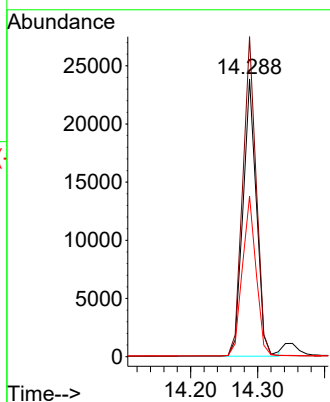
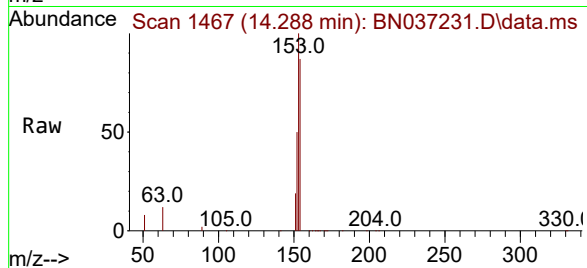
Tgt Ion:154 Resp: 33323

Ion Ratio Lower Upper

154 100

153 115.1 94.6 141.8

152 58.6 49.6 74.4



#18

Fluorene

Concen: 5.075 ng

RT: 15.282 min Scan# 1560

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

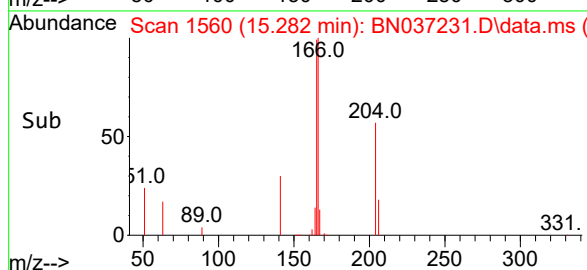
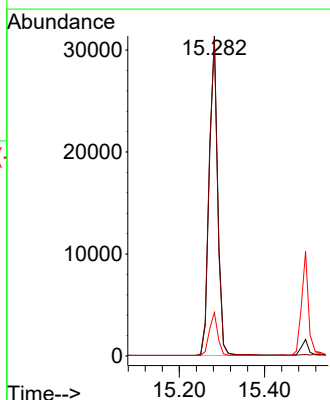
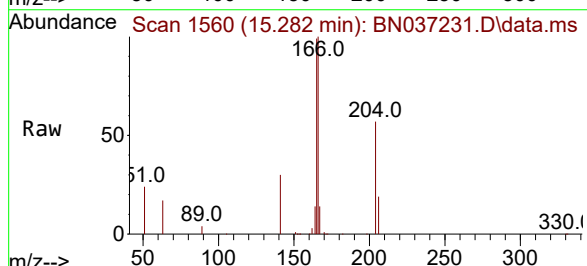
Tgt Ion:166 Resp: 43051

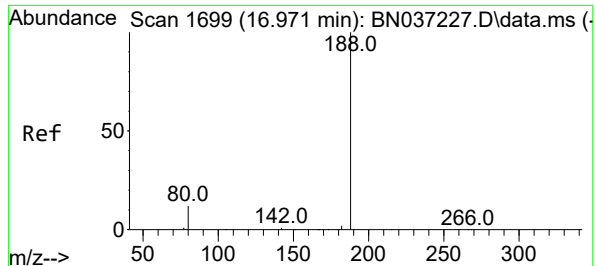
Ion Ratio Lower Upper

166 100

165 99.9 79.8 119.6

167 13.3 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

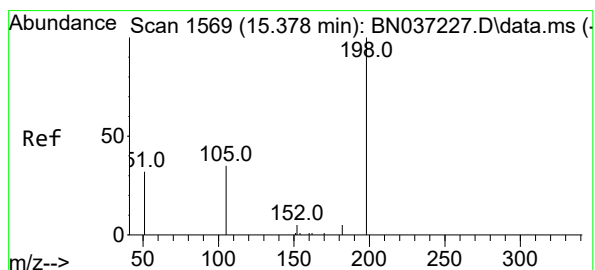
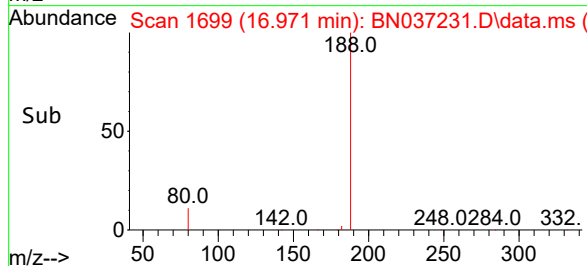
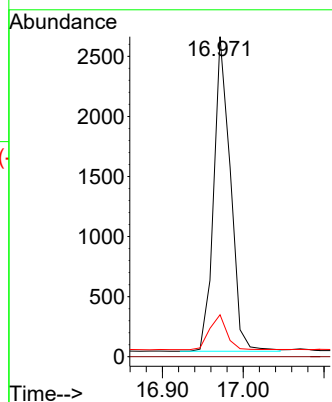
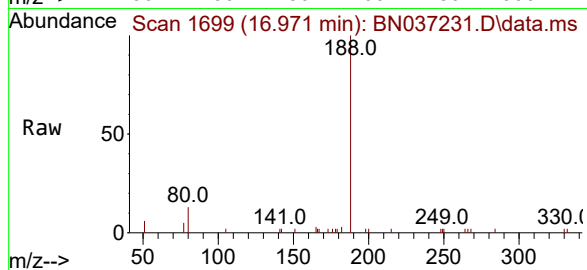
Tgt Ion:188 Resp: 3744

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 13.1 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 4.992 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

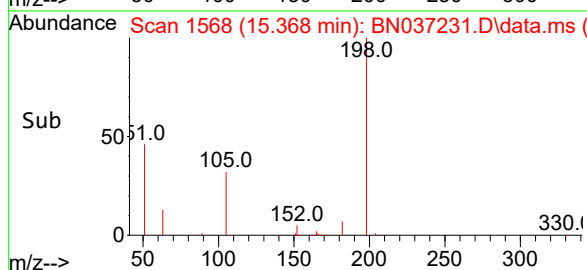
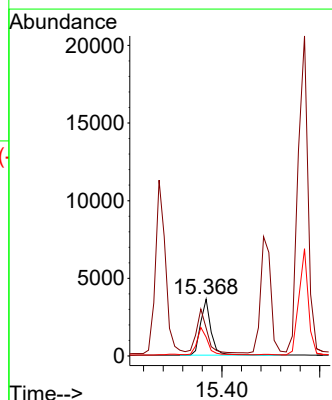
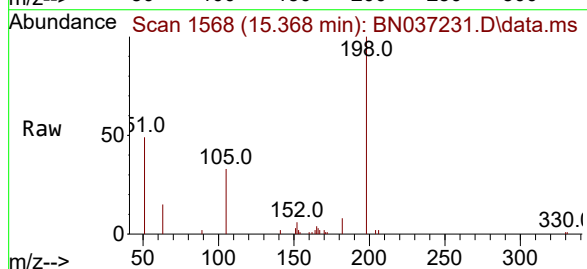
Tgt Ion:198 Resp: 5424

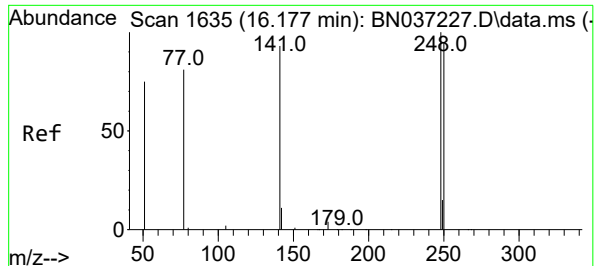
Ion Ratio Lower Upper

198 100

51 49.4 111.2 166.8#

105 33.2 54.0 81.0#

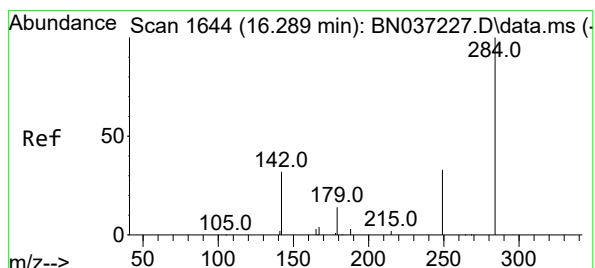
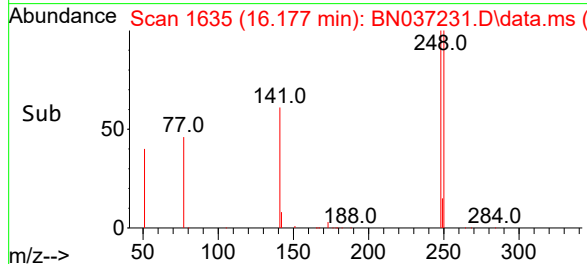
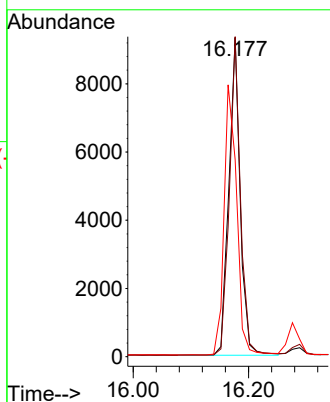
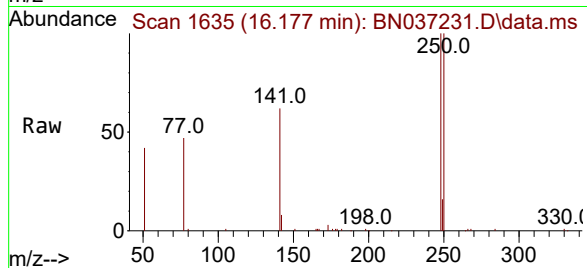




#21  
4-Bromophenyl-phenylether  
Concen: 5.240 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. 0.000 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

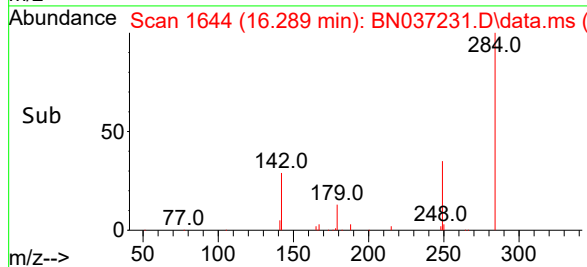
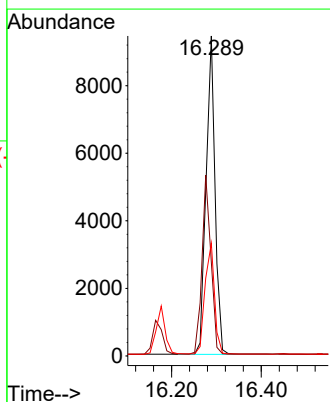
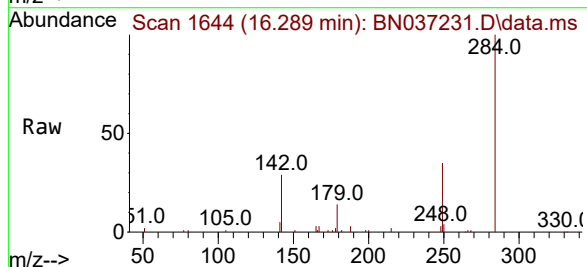
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

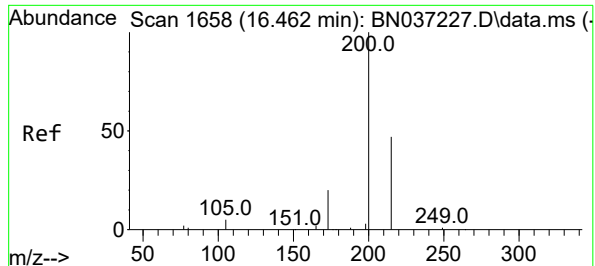
Tgt Ion:248 Resp: 12785  
Ion Ratio Lower Upper  
248 100  
250 100.3 76.8 115.2  
141 61.8 75.6 113.4#



#22  
Hexachlorobenzene  
Concen: 4.616 ng  
RT: 16.289 min Scan# 1644  
Delta R.T. 0.000 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

Tgt Ion:284 Resp: 13054  
Ion Ratio Lower Upper  
284 100  
142 56.1 43.8 65.6  
249 37.0 28.4 42.6

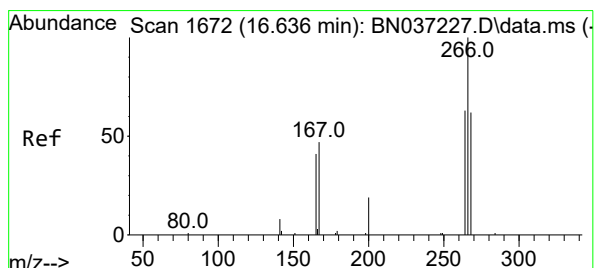
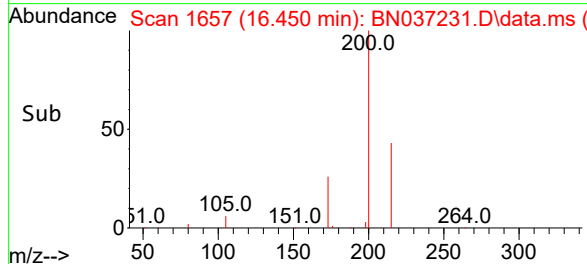
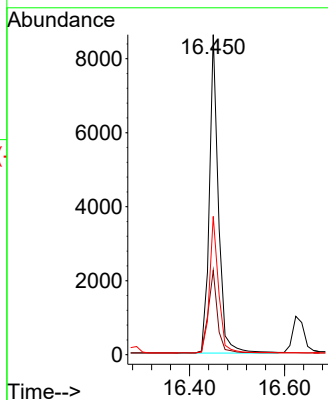
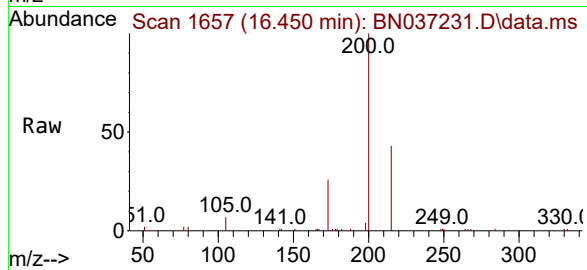




#23  
Atrazine  
Concen: 5.239 ng  
RT: 16.450 min Scan# 1657  
Delta R.T. -0.012 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

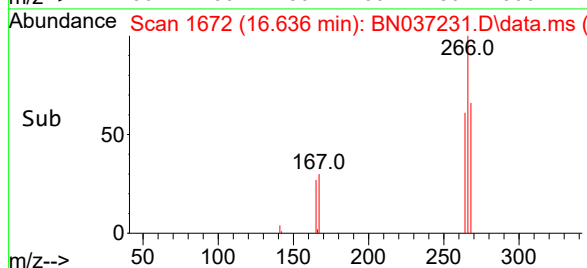
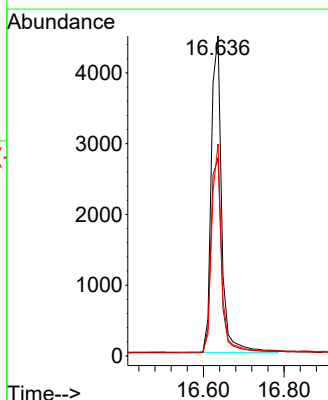
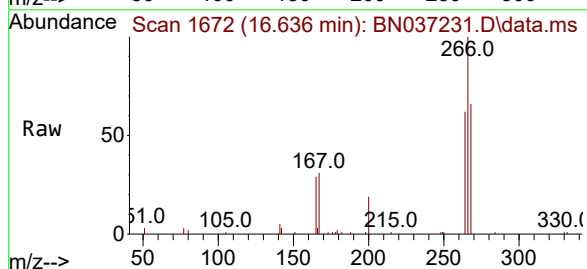
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC5.0

Tgt Ion:200 Resp: 11399  
Ion Ratio Lower Upper  
200 100  
173 26.4 25.1 37.7  
215 43.2 43.7 65.5#

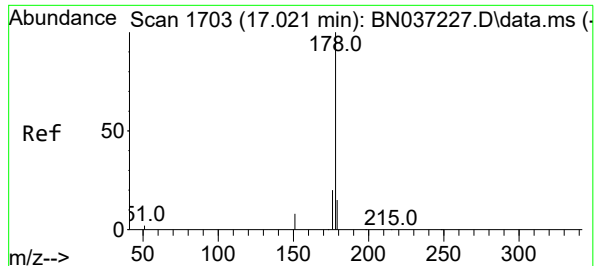


#24  
Pentachlorophenol  
Concen: 5.782 ng  
RT: 16.636 min Scan# 1672  
Delta R.T. 0.000 min  
Lab File: BN037231.D  
Acq: 13 Jun 2025 17:11

Tgt Ion:266 Resp: 8014  
Ion Ratio Lower Upper  
266 100  
264 63.1 49.2 73.8  
268 63.1 53.4 80.2







#25

Phenanthrene

Concen: 5.232 ng

RT: 17.021 min Scan# 1703

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

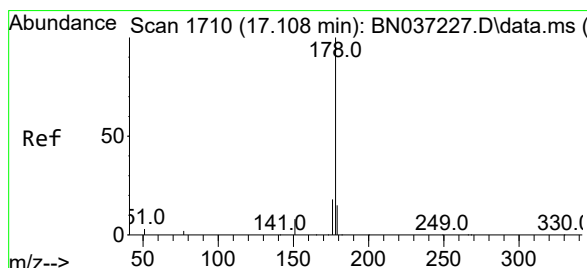
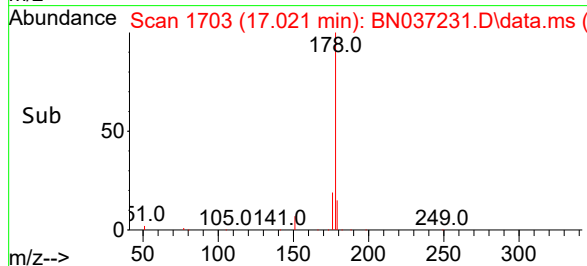
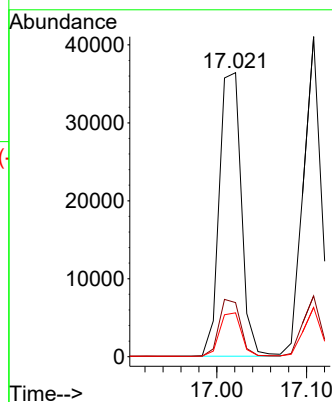
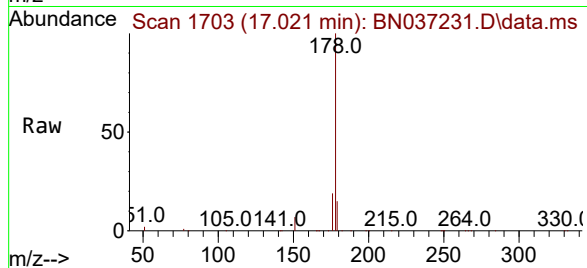
Tgt Ion:178 Resp: 62123

Ion Ratio Lower Upper

178 100

176 19.7 16.3 24.5

179 15.2 12.6 18.8



#26

Anthracene

Concen: 5.429 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

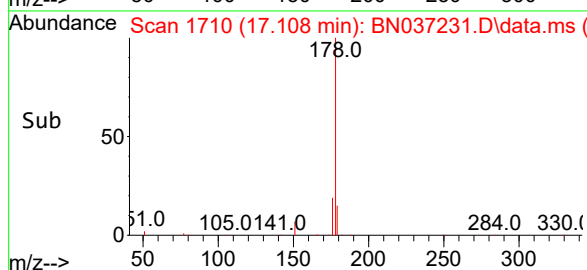
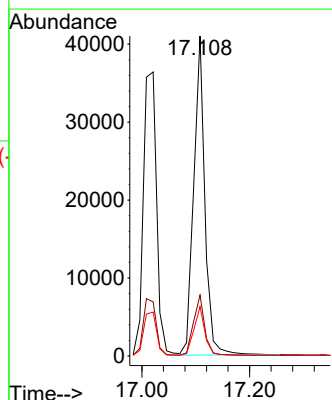
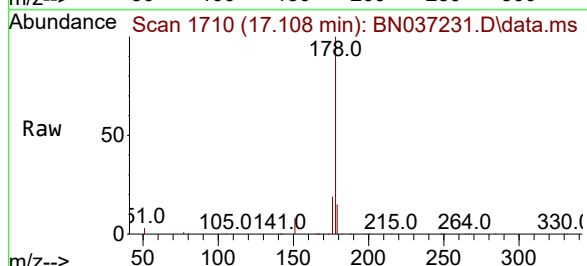
Tgt Ion:178 Resp: 59009

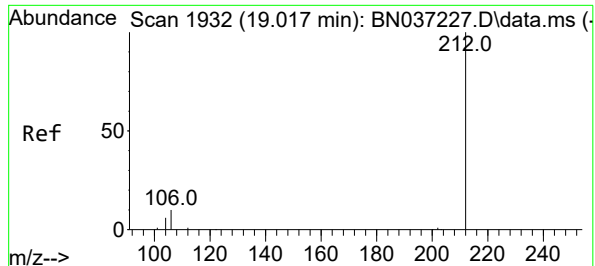
Ion Ratio Lower Upper

178 100

176 19.2 15.1 22.7

179 15.2 12.4 18.6





#27

Fluoranthene-d10

Concen: 5.125 ng

RT: 19.012 min Scan# 1932

Delta R.T. -0.005 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

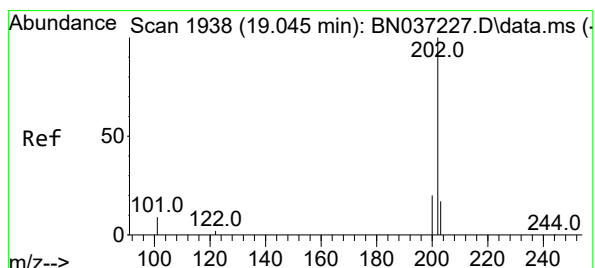
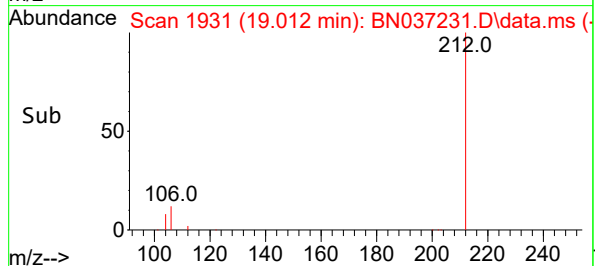
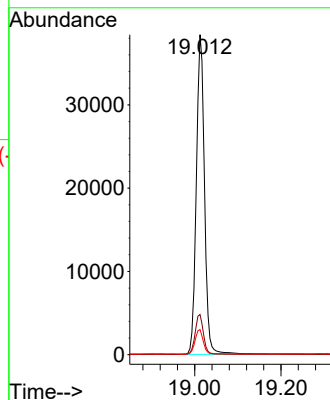
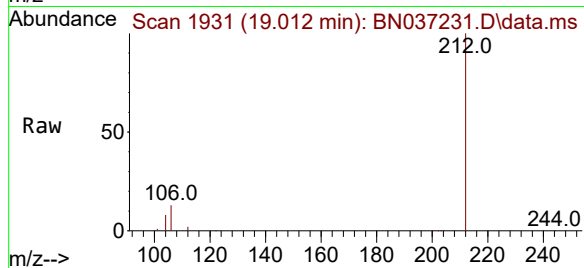
Tgt Ion:212 Resp: 50205

Ion Ratio Lower Upper

212 100

106 12.6 9.3 13.9

104 7.7 5.7 8.5



#28

Fluoranthene

Concen: 5.177 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

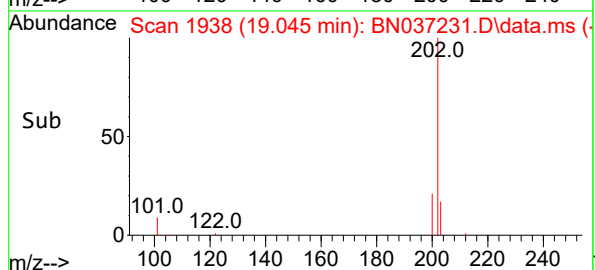
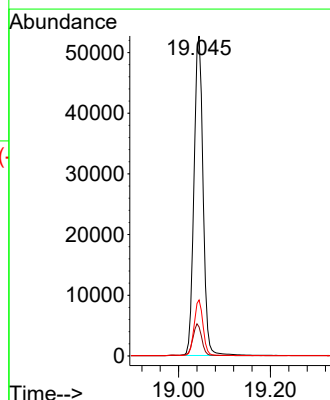
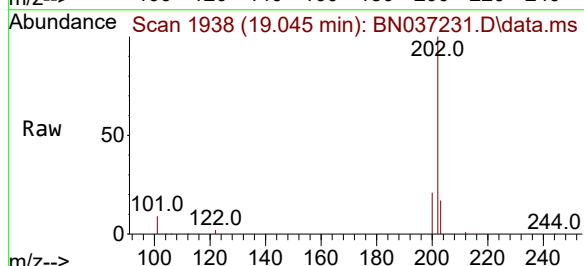
Tgt Ion:202 Resp: 71952

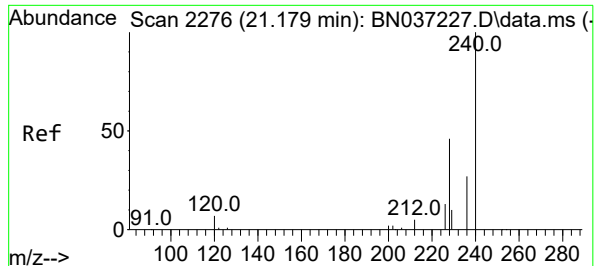
Ion Ratio Lower Upper

202 100

101 10.0 7.1 10.7

203 17.2 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

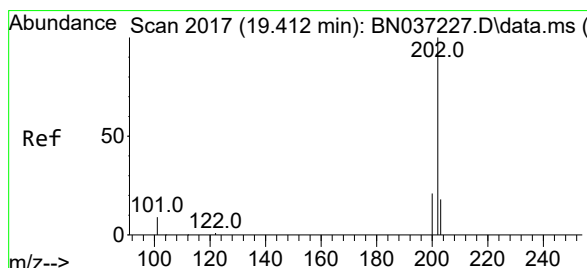
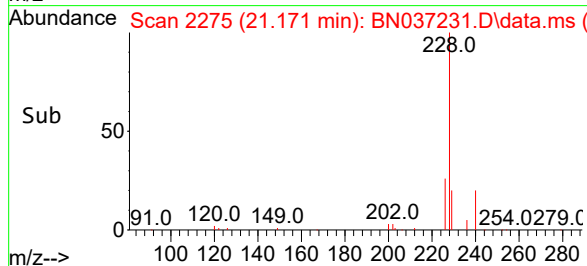
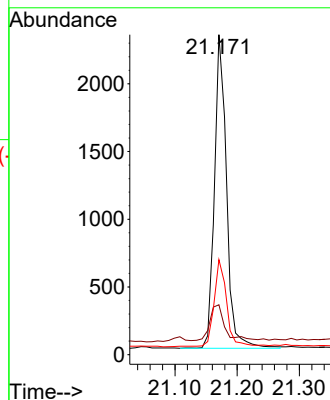
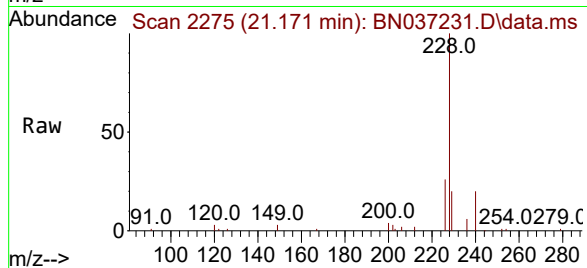
Tgt Ion:240 Resp: 3121

Ion Ratio Lower Upper

240 100

120 15.6 11.3 16.9

236 29.7 24.4 36.6



#30

Pyrene

Concen: 4.930 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

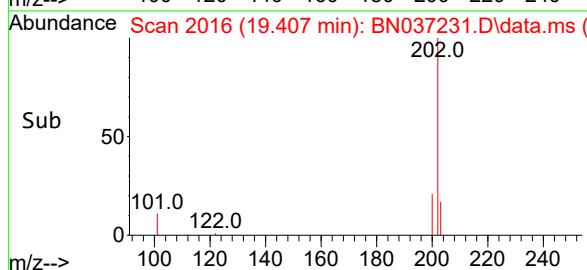
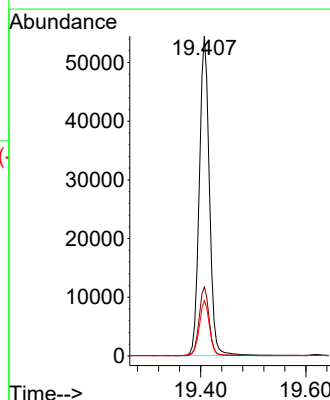
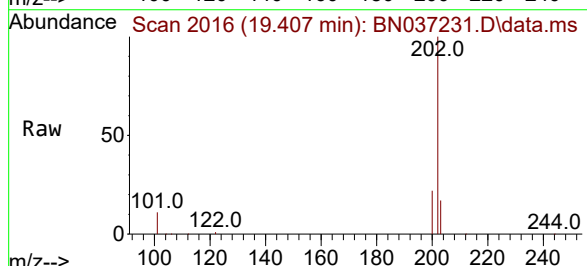
Tgt Ion:202 Resp: 72342

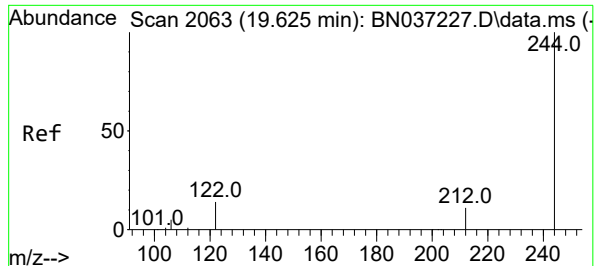
Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

203 17.6 14.3 21.5





#31

Terphenyl-d14

Concen: 5.111 ng

RT: 19.621 min Scan# 2062

Delta R.T. -0.005 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

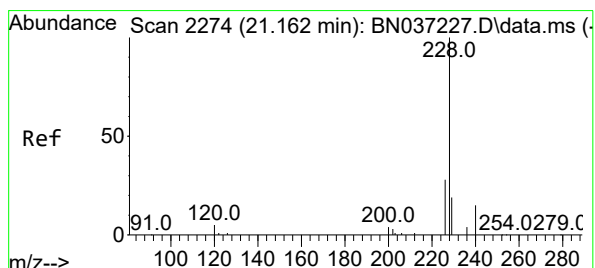
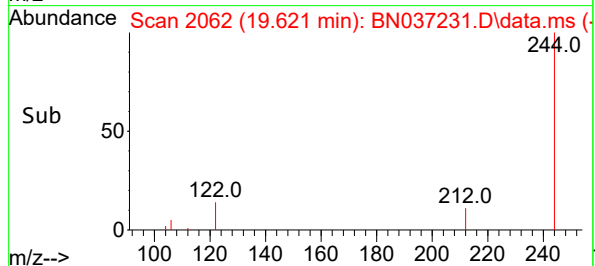
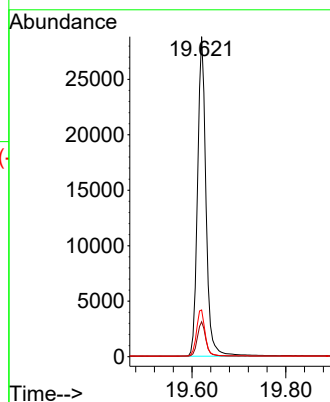
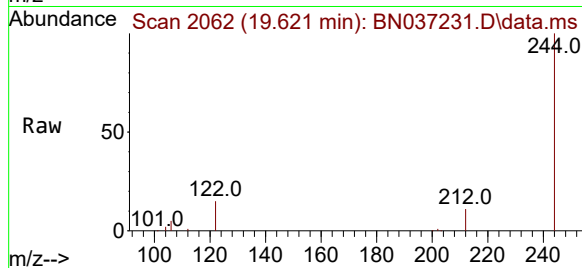
Tgt Ion:244 Resp: 36062

Ion Ratio Lower Upper

244 100

212 10.9 12.2 18.2#

122 14.6 14.3 21.5



#32

Benzo(a)anthracene

Concen: 5.551 ng

RT: 21.153 min Scan# 2273

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

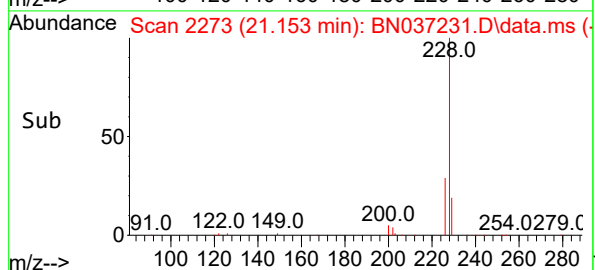
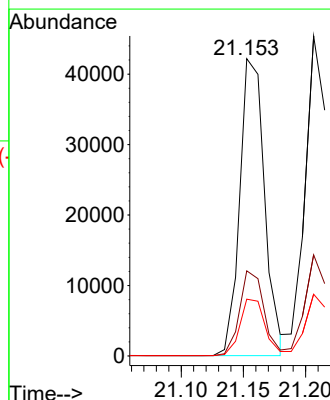
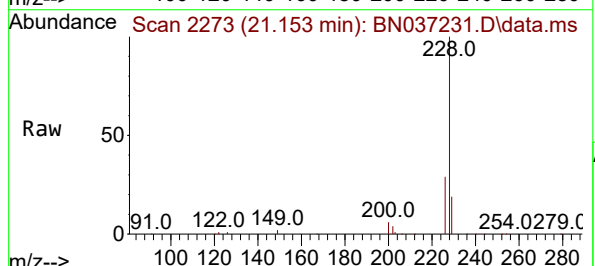
Tgt Ion:228 Resp: 58498

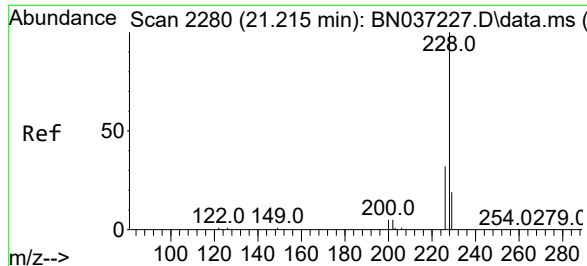
Ion Ratio Lower Upper

228 100

226 28.6 23.8 35.8

229 19.1 17.0 25.4





#33

Chrysene

Concen: 4.803 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

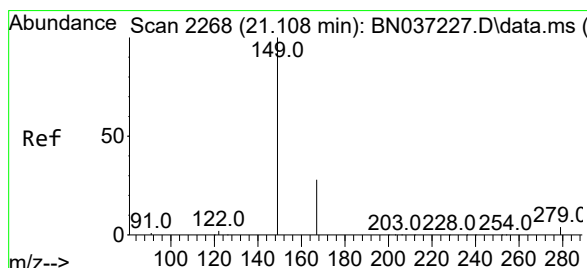
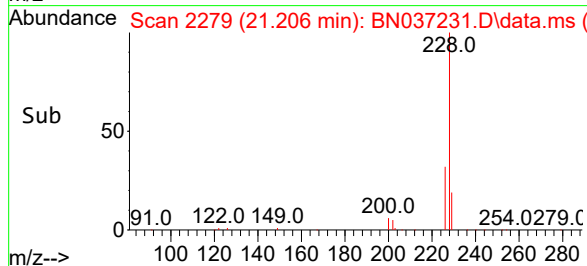
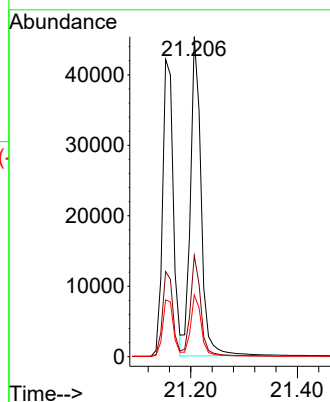
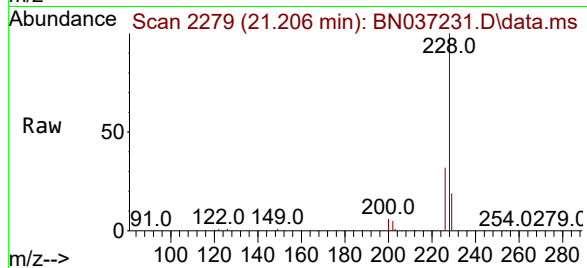
Tgt Ion:228 Resp: 63057

Ion Ratio Lower Upper

228 100

226 31.6 25.8 38.6

229 19.3 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 4.774 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

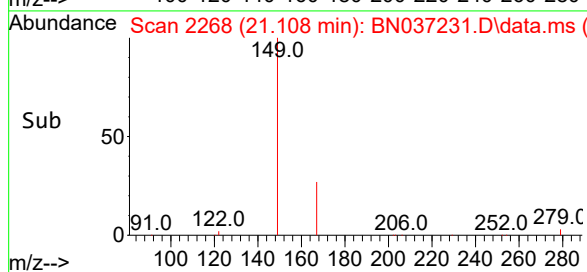
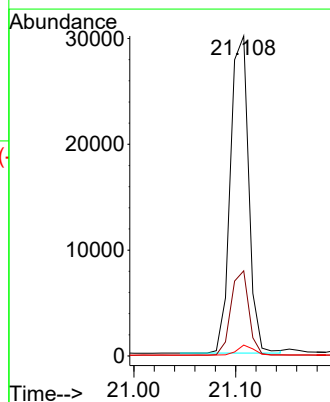
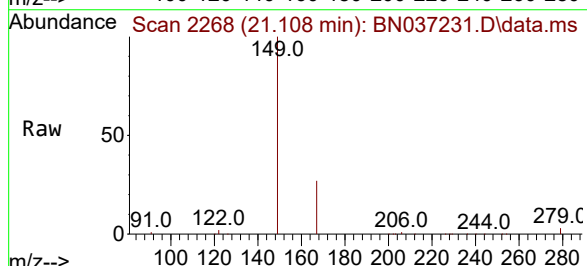
Tgt Ion:149 Resp: 37466

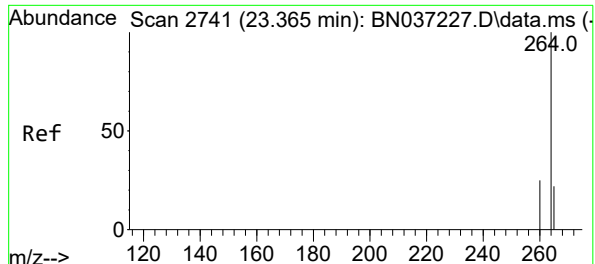
Ion Ratio Lower Upper

149 100

167 26.0 21.3 31.9

279 2.9 3.3 4.9#





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.360 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037231.D

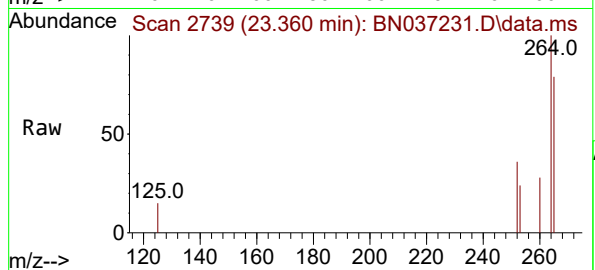
Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



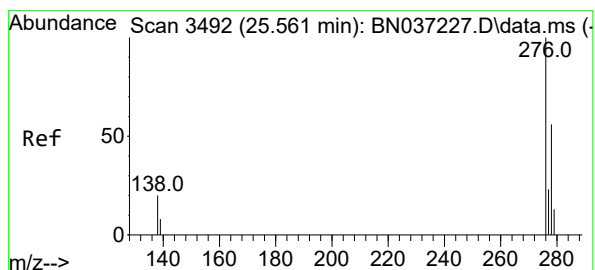
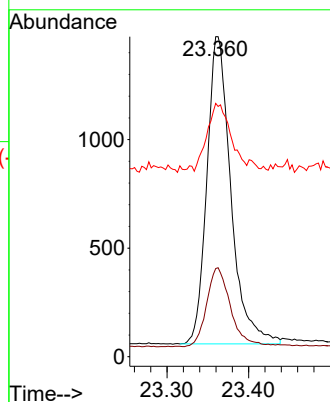
Tgt Ion:264 Resp: 2895

Ion Ratio Lower Upper

264 100

260 27.5 22.8 34.2

265 79.2 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 5.620 ng

RT: 25.552 min Scan# 3489

Delta R.T. -0.009 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

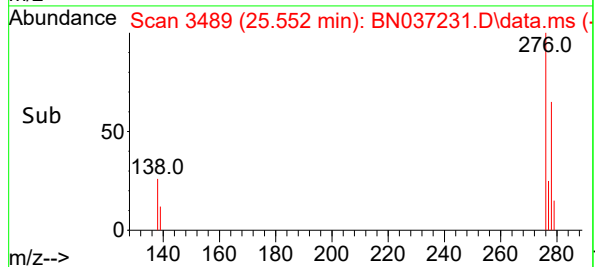
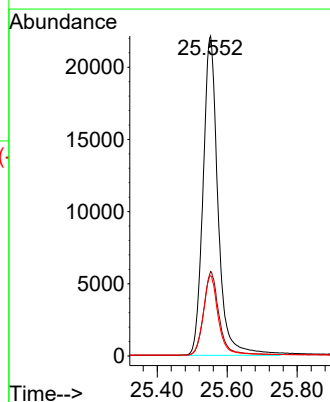
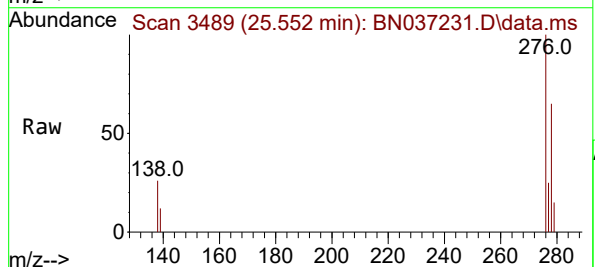
Tgt Ion:276 Resp: 65610

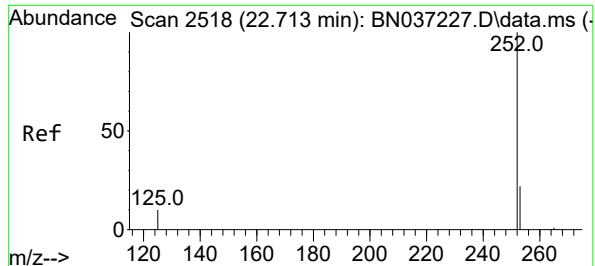
Ion Ratio Lower Upper

276 100

138 26.6 16.8 25.2#

277 24.9 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 5.536 ng

RT: 22.708 min Scan# 2516

Delta R.T. -0.006 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0

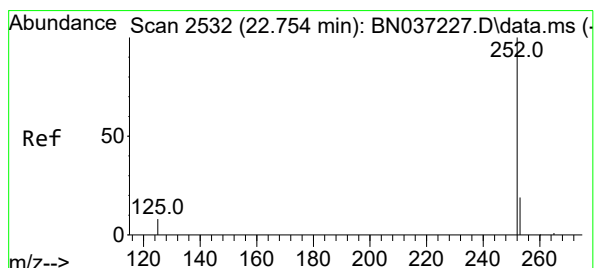
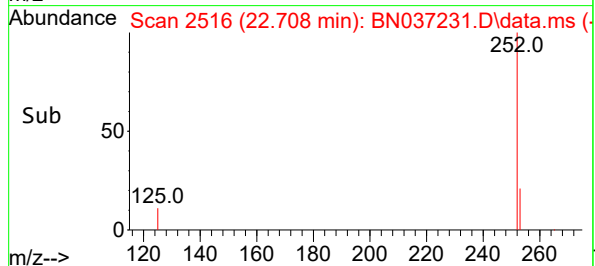
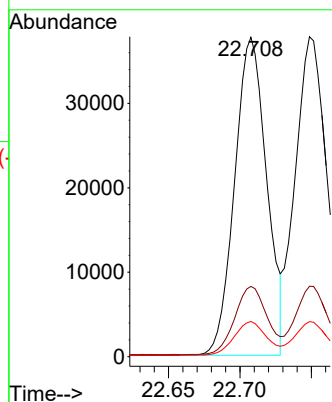
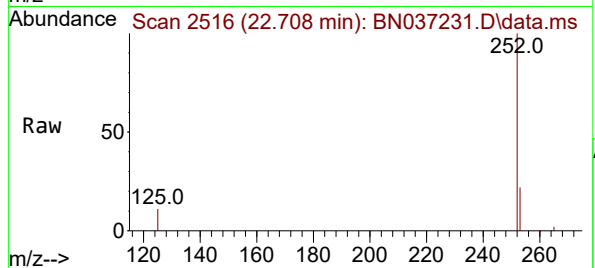
Tgt Ion:252 Resp: 58631

Ion Ratio Lower Upper

252 100

253 22.0 24.9 37.3#

125 11.0 12.9 19.3#



#38

Benzo(k)fluoranthene

Concen: 5.148 ng

RT: 22.749 min Scan# 2530

Delta R.T. -0.006 min

Lab File: BN037231.D

Acq: 13 Jun 2025 17:11

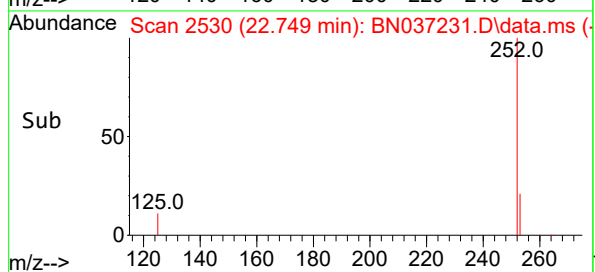
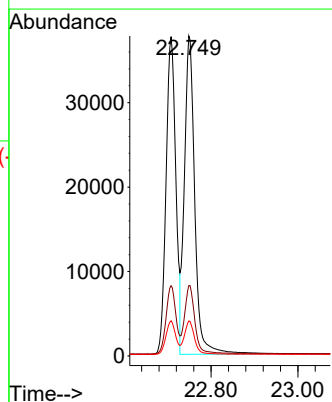
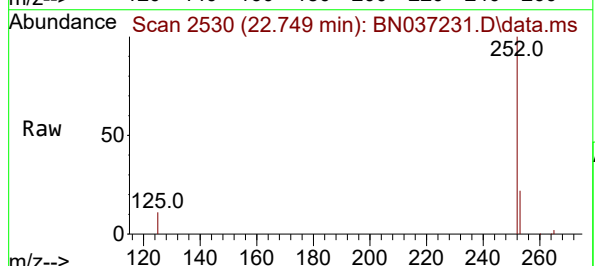
Tgt Ion:252 Resp: 62537

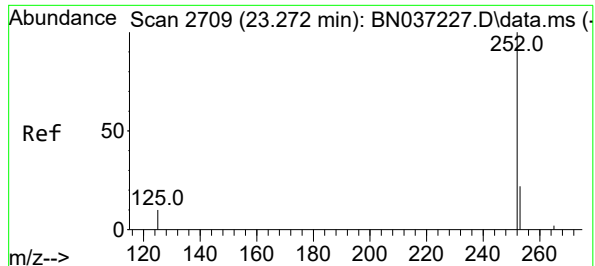
Ion Ratio Lower Upper

252 100

253 22.0 24.6 37.0#

125 11.0 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 5.368 ng

RT: 23.266 min Scan# 21

Delta R.T. -0.006 min

Lab File: BN037231.D

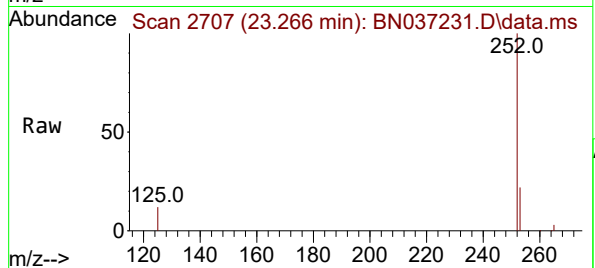
Acq: 13 Jun 2025 17:11

Instrument :

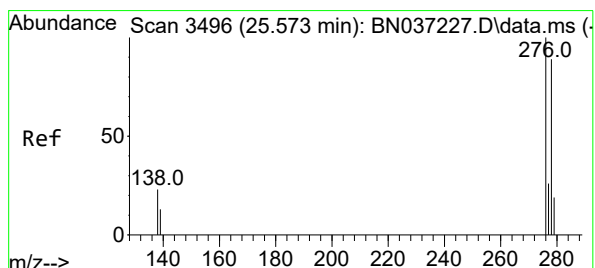
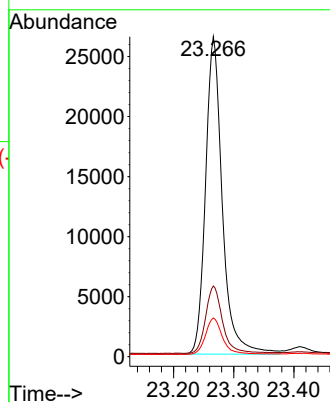
BNA\_N

ClientSampleId :

SSTDICC5.0



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 252   | Resp: | 51138 |
| Ion Ratio | Lower | Upper |       |
| 252       | 100   |       |       |
| 253       | 22.1  | 29.4  | 44.2# |
| 125       | 12.1  | 16.2  | 24.2# |



#40

Dibenzo(a,h)anthracene

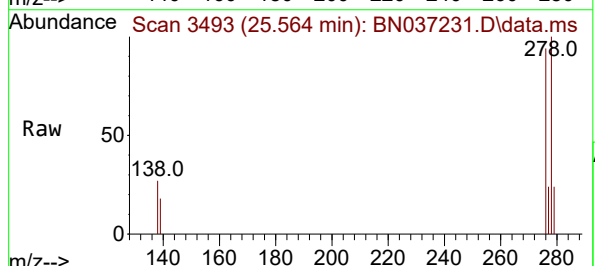
Concen: 5.871 ng

RT: 25.564 min Scan# 3493

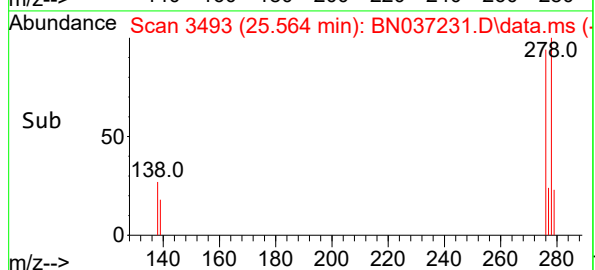
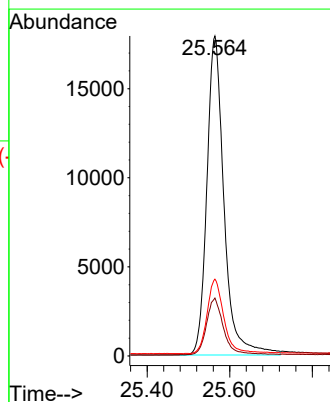
Delta R.T. -0.009 min

Lab File: BN037231.D

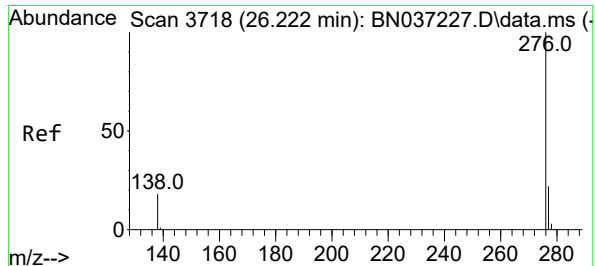
Acq: 13 Jun 2025 17:11



|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 278   | Resp: | 51648 |
| Ion Ratio | Lower | Upper |       |
| 278       | 100   |       |       |
| 139       | 18.1  | 17.8  | 26.6  |
| 279       | 24.0  | 31.3  | 46.9# |







#41

Benzo(g,h,i)perylene

Concen: 5.204 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037231.D

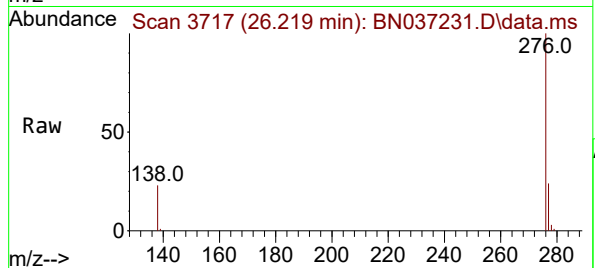
Acq: 13 Jun 2025 17:11

Instrument :

BNA\_N

ClientSampleId :

SSTDICC5.0



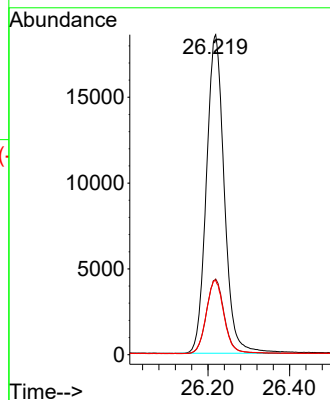
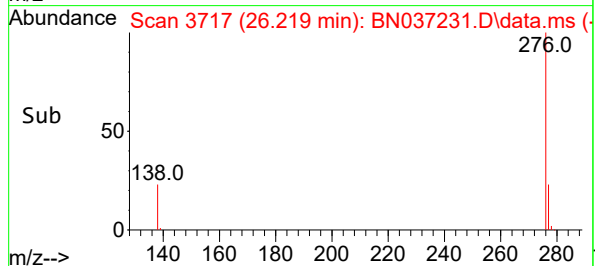
Tgt Ion:276 Resp: 56339

Ion Ratio Lower Upper

276 100

277 23.7 22.0 33.0

138 23.2 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037232.D  
 Acq On : 13 Jun 2025 17:47  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN061325

Quant Time: Jun 13 18:44:16 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:43:34 2025  
 Response via : Initial Calibration

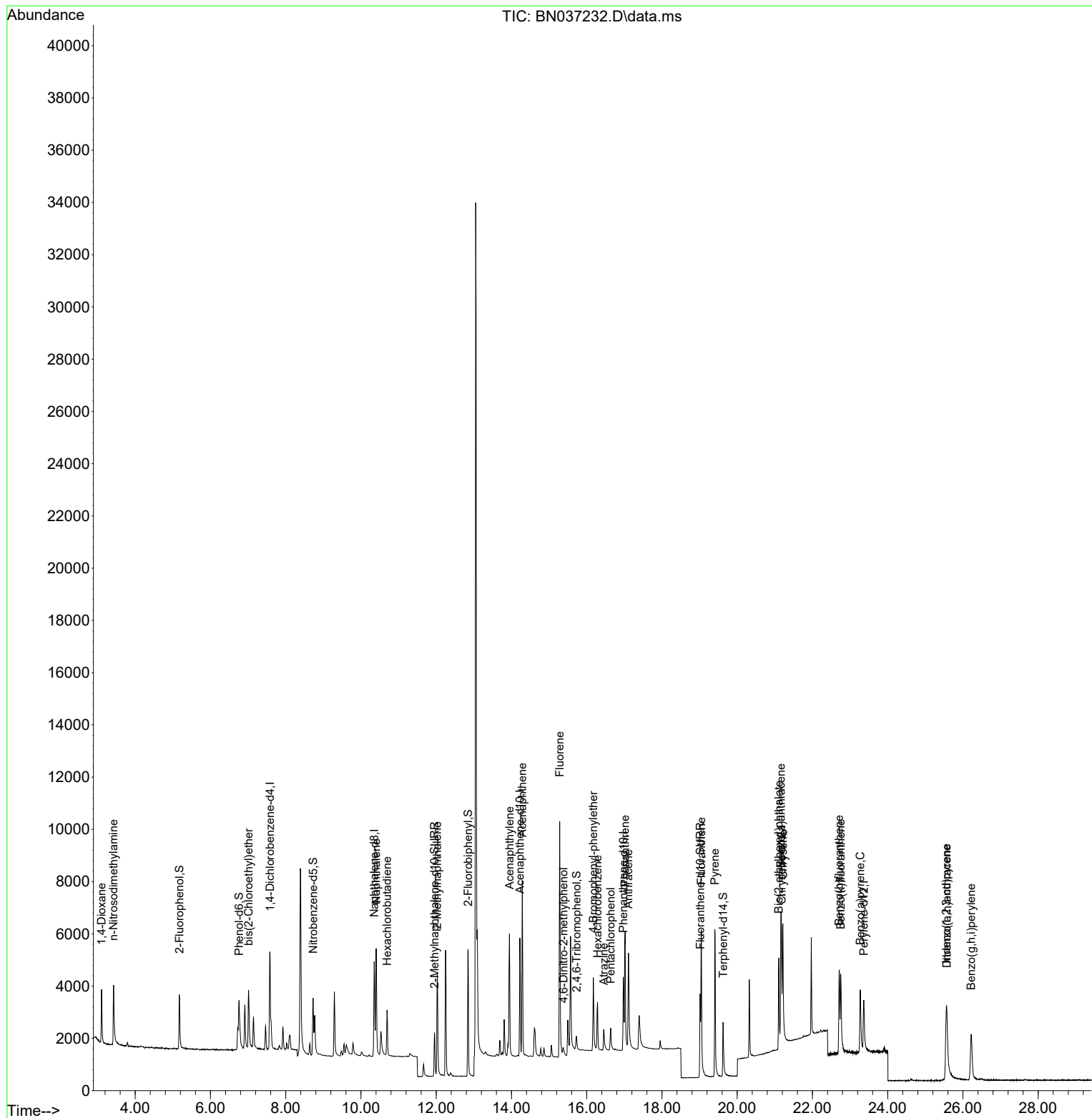
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.582  | 152  | 1986     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.351 | 136  | 4902     | 0.400 | ng    | #-0.01    |
| 13) Acenaphthene-d10          | 14.224 | 164  | 2552     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 16.971 | 188  | 4515     | 0.400 | ng    | 0.00      |
| 29) Chrysene-d12              | 21.180 | 240  | 3230     | 0.400 | ng    | 0.00      |
| 35) Perylene-d12              | 23.366 | 264  | 3076     | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.177  | 112  | 1716     | 0.352 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.759  | 99   | 1849     | 0.360 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.728  | 82   | 1988     | 0.410 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 11.955 | 152  | 2615     | 0.398 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 327      | 0.308 | ng    | 0.00      |
| 15) 2-Fluorobiphenyl          | 12.848 | 172  | 4427     | 0.413 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.017 | 212  | 4358     | 0.369 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.625 | 244  | 3044     | 0.417 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.104  | 88   | 1095     | 0.402 | ng    | Qvalue 91 |
| 3) n-Nitrosodimethylamine     | 3.422  | 42   | 2259     | 0.364 | ng    | # 91      |
| 6) bis(2-Chloroethyl)ether    | 7.012  | 93   | 2110     | 0.458 | ng    | 89        |
| 9) Naphthalene                | 10.404 | 128  | 5483     | 0.386 | ng    | 97        |
| 10) Hexachlorobutadiene       | 10.693 | 225  | 1319     | 0.382 | ng    | # 97      |
| 12) 2-Methylnaphthalene       | 12.026 | 142  | 3073     | 0.356 | ng    | 99        |
| 16) Acenaphthylene            | 13.946 | 152  | 5109     | 0.409 | ng    | 98        |
| 17) Acenaphthene              | 14.288 | 154  | 3050     | 0.378 | ng    | 99        |
| 18) Fluorene                  | 15.282 | 166  | 3826     | 0.369 | ng    | 100       |
| 20) 4,6-Dinitro-2-methylph... | 15.378 | 198  | 326      | 0.392 | ng    | 92        |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 1082     | 0.368 | ng    | 97        |
| 22) Hexachlorobenzene         | 16.289 | 284  | 1296     | 0.380 | ng    | 98        |
| 23) Atrazine                  | 16.450 | 200  | 1004     | 0.383 | ng    | 89        |
| 24) Pentachlorophenol         | 16.636 | 266  | 540      | 0.323 | ng    | 95        |
| 25) Phenanthrene              | 17.021 | 178  | 5458     | 0.381 | ng    | 99        |
| 26) Anthracene                | 17.108 | 178  | 4934     | 0.376 | ng    | 100       |
| 28) Fluoranthene              | 19.045 | 202  | 5935     | 0.354 | ng    | 98        |
| 30) Pyrene                    | 19.407 | 202  | 5948     | 0.392 | ng    | 100       |
| 32) Benzo(a)anthracene        | 21.162 | 228  | 4183     | 0.384 | ng    | 99        |
| 33) Chrysene                  | 21.215 | 228  | 5302     | 0.390 | ng    | 98        |
| 34) Bis(2-ethylhexyl)phtha... | 21.108 | 149  | 3027     | 0.373 | ng    | 100       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.558 | 276  | 4825     | 0.389 | ng    | 99        |
| 37) Benzo(b)fluoranthene      | 22.711 | 252  | 4122     | 0.366 | ng    | 96        |
| 38) Benzo(k)fluoranthene      | 22.752 | 252  | 4721     | 0.363 | ng    | 98        |
| 39) Benzo(a)pyrene            | 23.272 | 252  | 4086     | 0.404 | ng    | # 93      |
| 40) Dibenzo(a,h)anthracene    | 25.573 | 278  | 3443     | 0.365 | ng    | 94        |
| 41) Benzo(g,h,i)perylene      | 26.219 | 276  | 4068     | 0.354 | ng    | 97        |

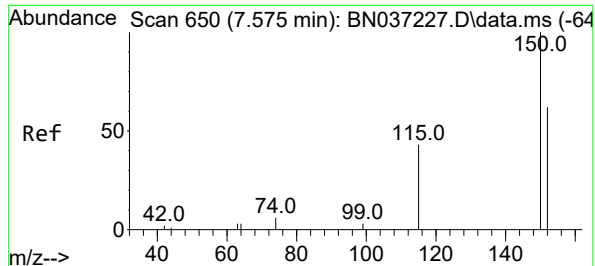
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Data File : BN037232.D  
Acq On : 13 Jun 2025 17:47  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN061325

Quant Time: Jun 13 18:44:16 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 2025  
Response via : Initial Calibration

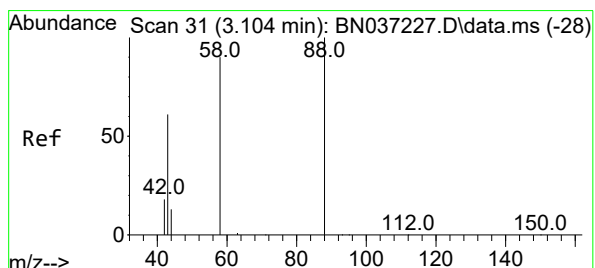
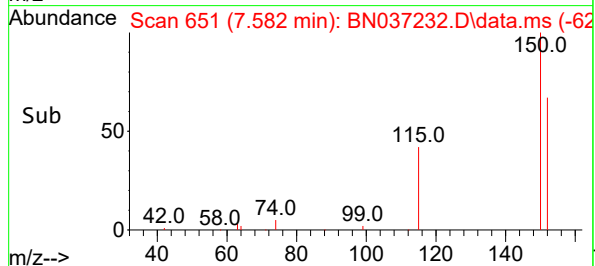
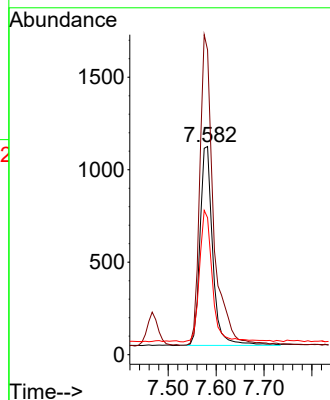
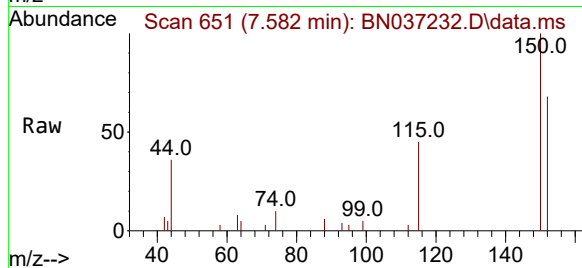




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.582 min Scan# 61  
Delta R.T. 0.007 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

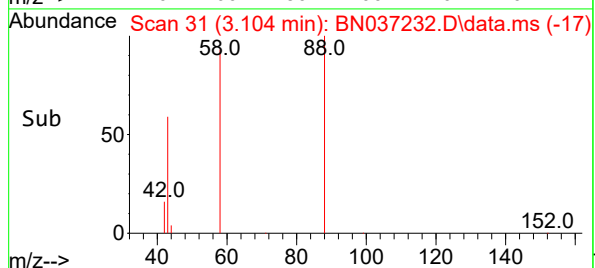
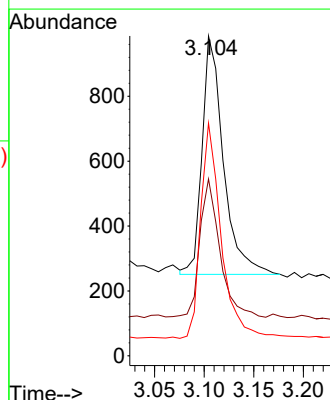
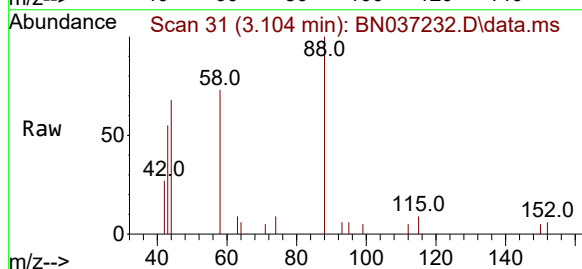
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN061325

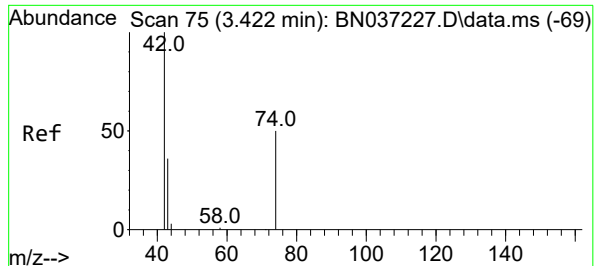
Tgt Ion:152 Resp: 1986  
Ion Ratio Lower Upper  
152 100  
150 146.5 125.2 187.8  
115 65.8 58.4 87.6



#2  
1,4-Dioxane  
Concen: 0.402 ng  
RT: 3.104 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

Tgt Ion: 88 Resp: 1095  
Ion Ratio Lower Upper  
88 100  
43 54.6 52.6 79.0  
58 86.8 73.5 110.3

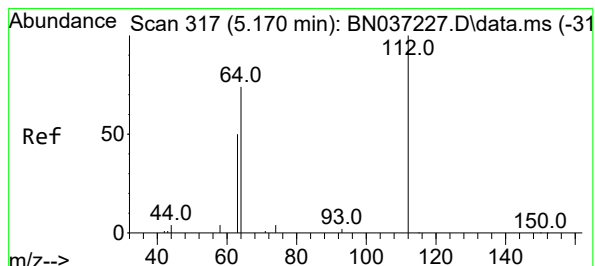
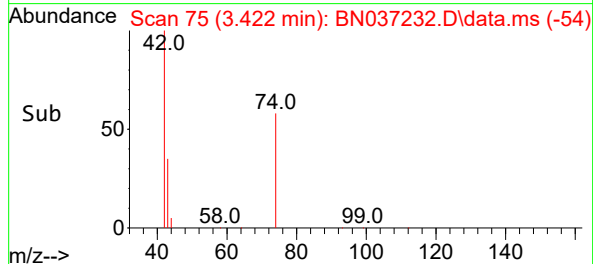
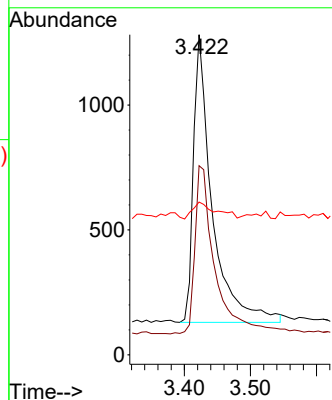
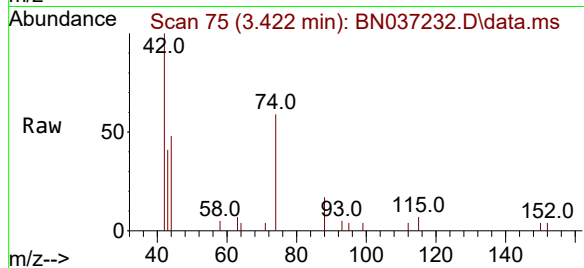




#3  
n-Nitrosodimethylamine  
Concen: 0.364 ng  
RT: 3.422 min Scan# 71  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

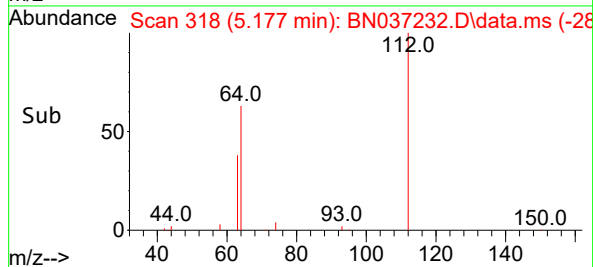
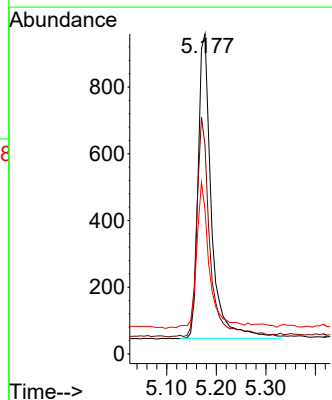
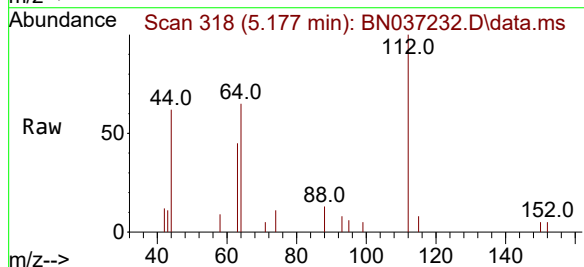
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN061325

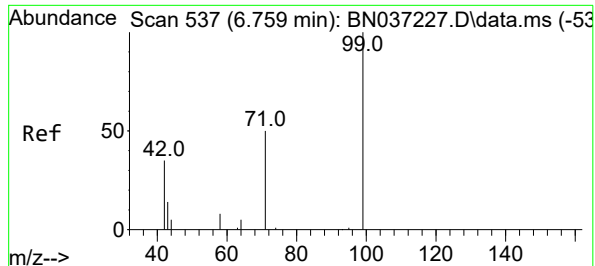
Tgt Ion: 42 Resp: 2259  
Ion Ratio Lower Upper  
42 100  
74 62.0 44.6 66.8  
44 7.5 3.5 5.3#



#4  
2-Fluorophenol  
Concen: 0.352 ng  
RT: 5.177 min Scan# 318  
Delta R.T. 0.007 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

Tgt Ion: 112 Resp: 1716  
Ion Ratio Lower Upper  
112 100  
64 70.6 57.2 85.8  
63 45.6 39.8 59.6

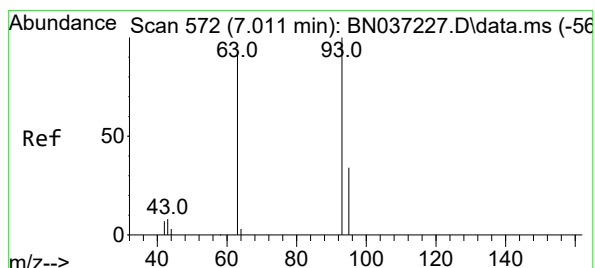
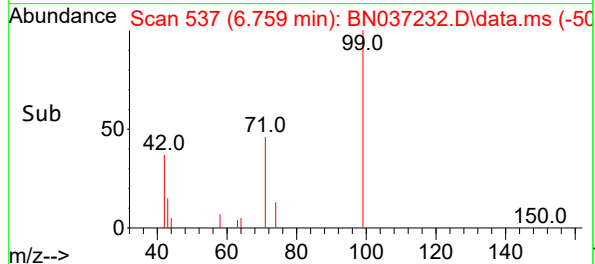
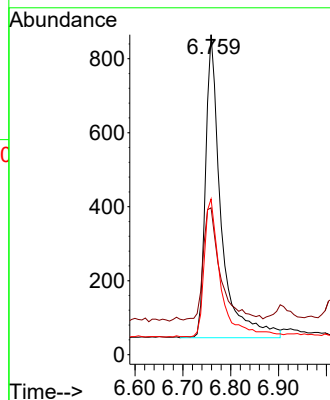
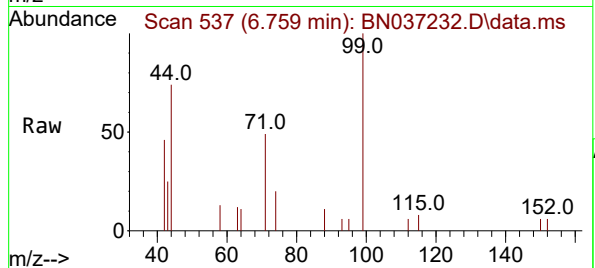




#5  
Phenol-d6  
Concen: 0.360 ng  
RT: 6.759 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

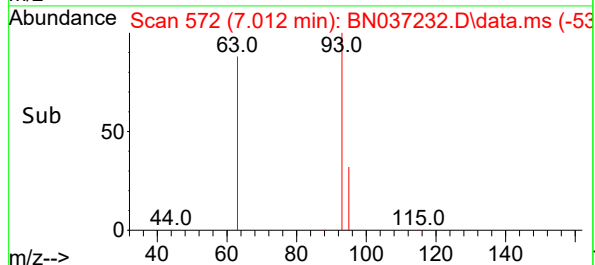
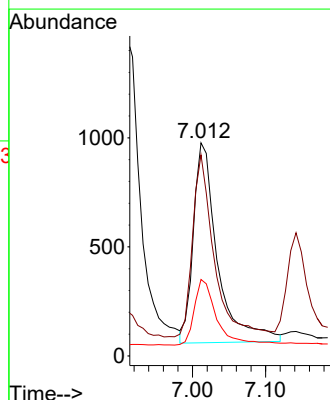
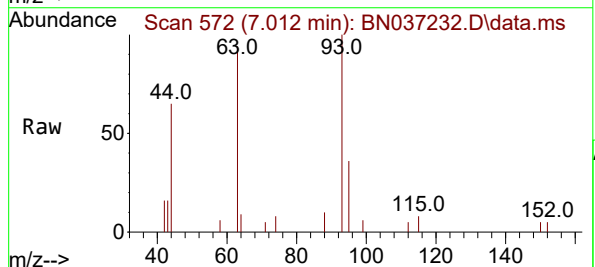
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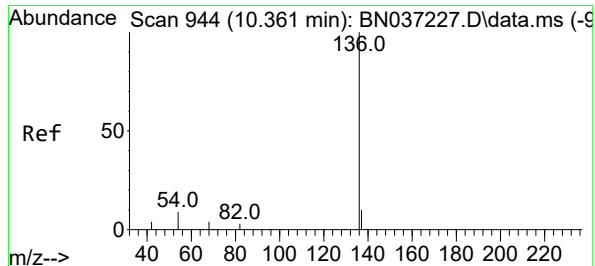
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 1849  |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 40.9  | 36.2  | 54.4  |
| 71       | 48.2  | 42.4  | 63.6  |



#6  
bis(2-Chloroethyl)ether  
Concen: 0.458 ng  
RT: 7.012 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 2110  |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 81.0  | 75.2  | 112.8 |
| 95       | 31.9  | 28.3  | 42.5  |

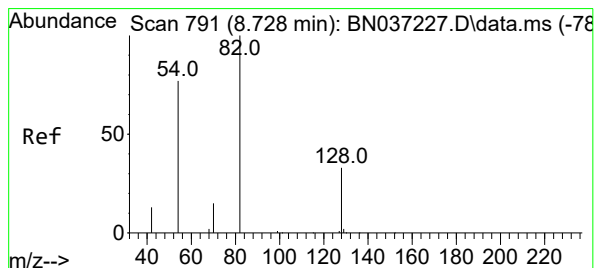
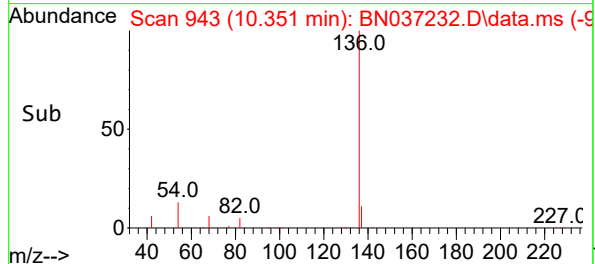
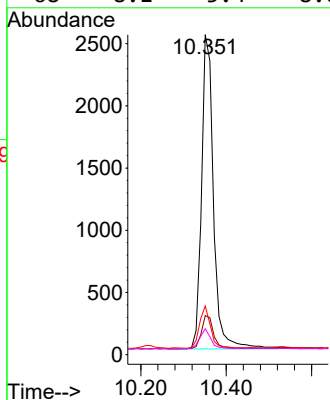
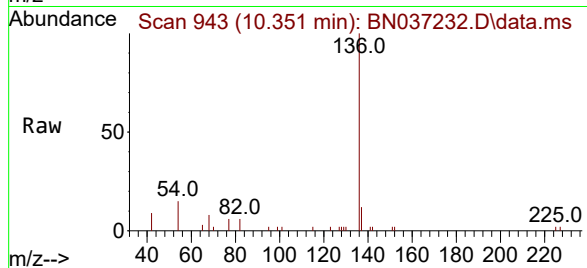




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 944  
Delta R.T. -0.011 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

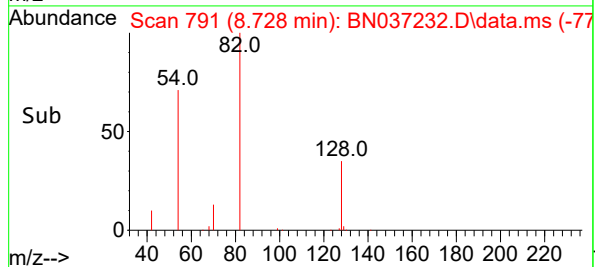
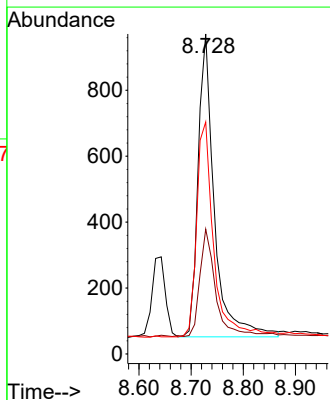
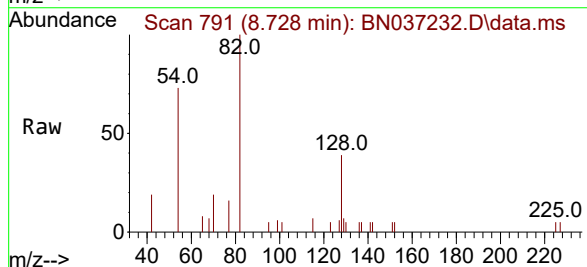
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BNA\_N  
ClientSampleId :  
ICVBN061325

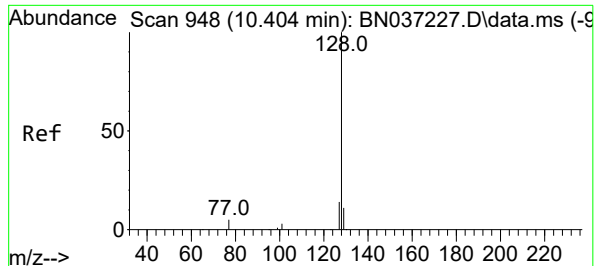
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 4902  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 12.2  | 10.6  | 15.8  |
| 54       | 15.2  | 9.2   | 13.8# |
| 68       | 8.1   | 5.4   | 8.0#  |



#8  
Nitrobenzene-d5  
Concen: 0.410 ng  
RT: 8.728 min Scan# 791  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1988  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 39.0  | 31.2  | 46.8  |
| 54       | 72.5  | 63.3  | 94.9  |

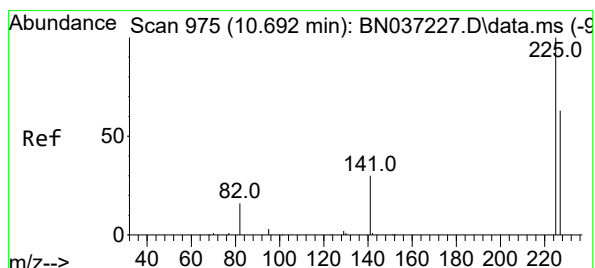
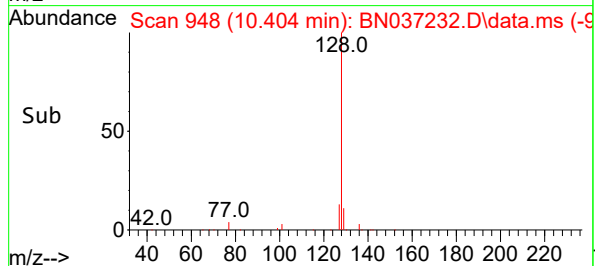
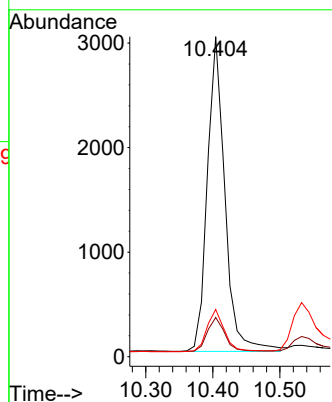
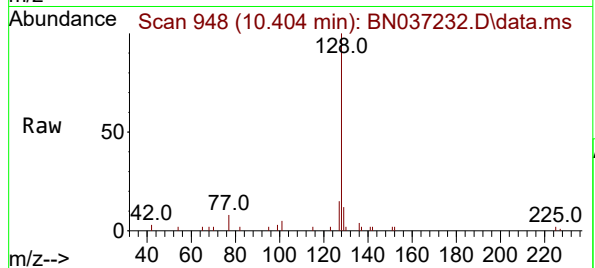




#9  
Naphthalene  
Concen: 0.386 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

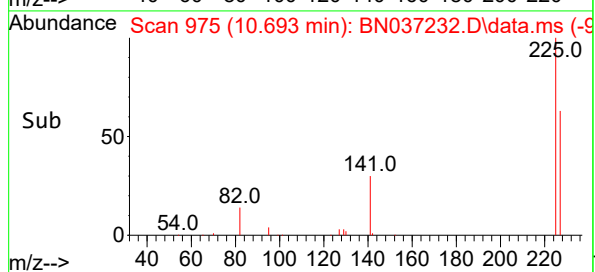
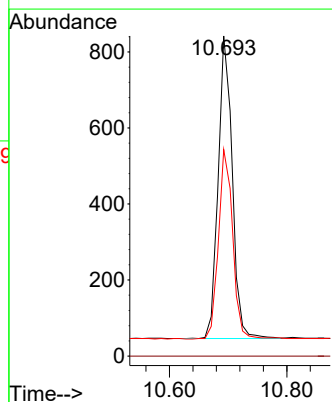
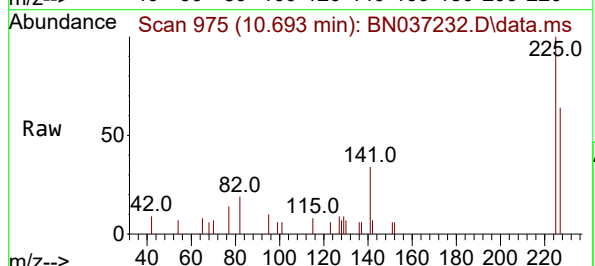
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN061325

| Tgt Ion | 128   | Resp  | 5483  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 128     | 100   |       |       |
| 129     | 12.3  | 10.7  | 16.1  |
| 127     | 14.7  | 12.6  | 19.0  |

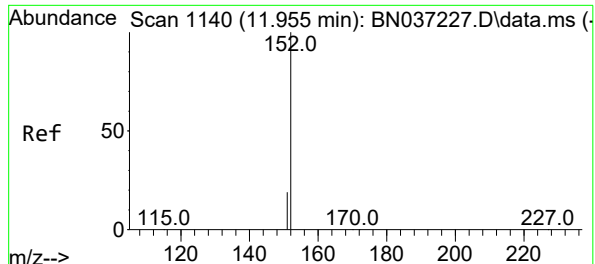


#10  
Hexachlorobutadiene  
Concen: 0.382 ng  
RT: 10.693 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

| Tgt Ion | 225   | Resp  | 1319  |
|---------|-------|-------|-------|
| Ion     | Ratio | Lower | Upper |
| 225     | 100   |       |       |
| 223     | 0.0   | 0.0   | 0.0   |
| 227     | 63.6  | 49.2  | 73.8  |



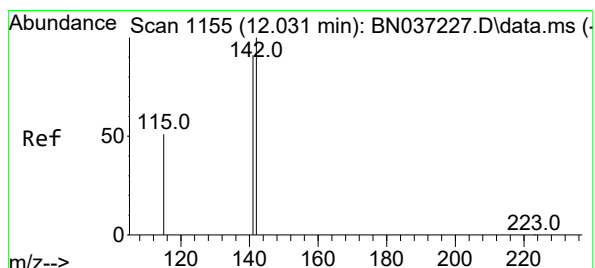
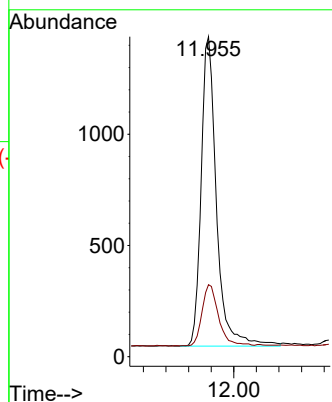
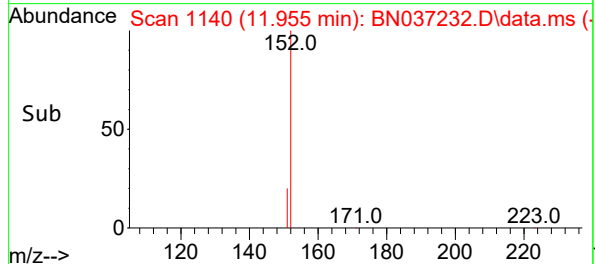
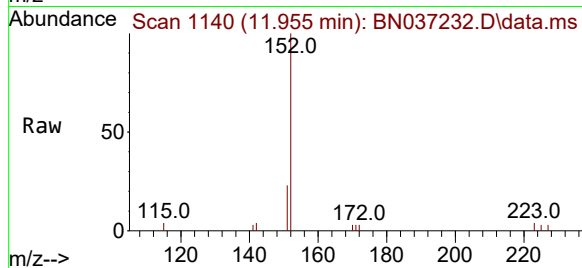




#11  
2-Methylnaphthalene-d10  
Concen: 0.398 ng  
RT: 11.955 min Scan# 1140  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

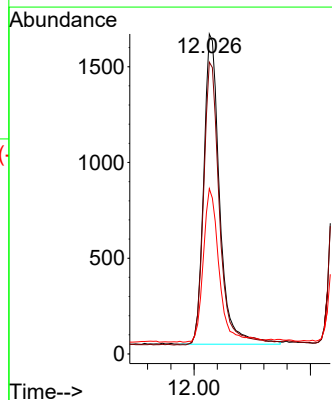
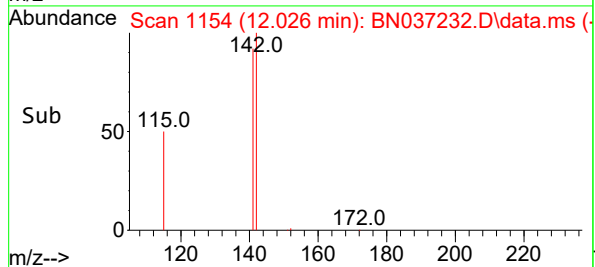
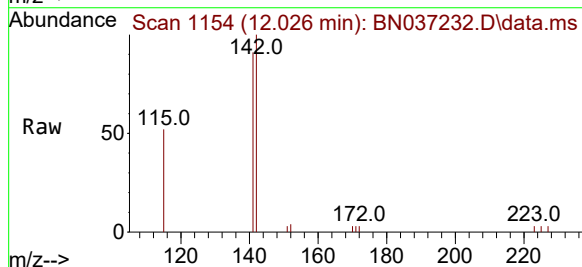
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN061325

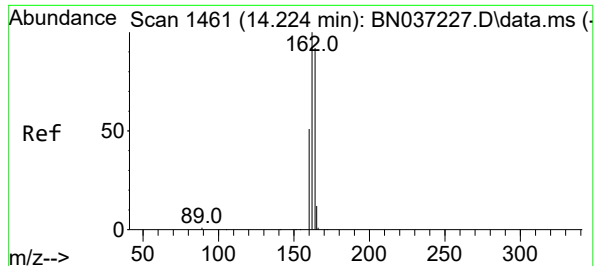
Tgt Ion:152 Resp: 2615  
Ion Ratio Lower Upper  
152 100  
151 21.3 17.9 26.9



#12  
2-Methylnaphthalene  
Concen: 0.356 ng  
RT: 12.026 min Scan# 1154  
Delta R.T. -0.005 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

Tgt Ion:142 Resp: 3073  
Ion Ratio Lower Upper  
142 100  
141 91.2 73.0 109.6  
115 51.6 43.3 64.9





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA\_N

ClientSampleId :

ICVBN061325

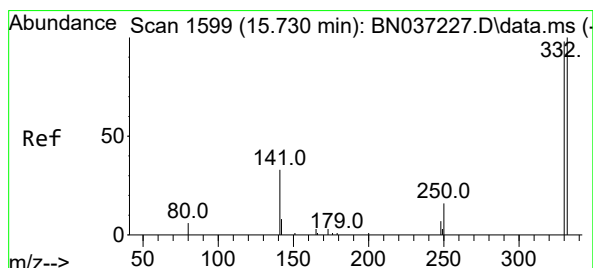
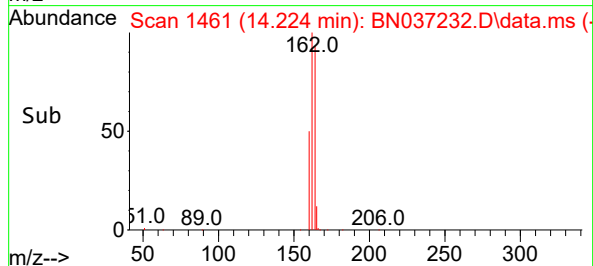
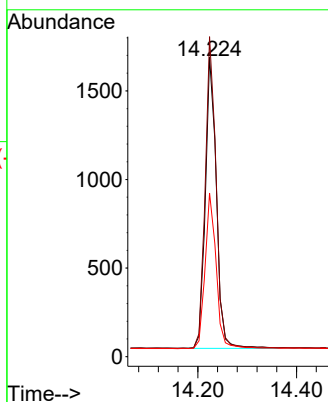
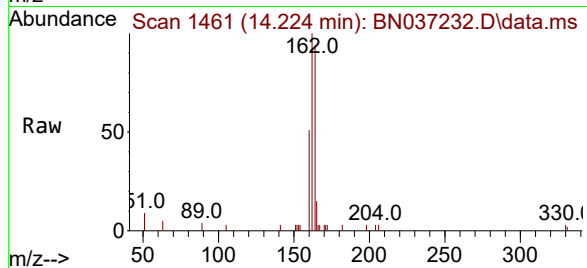
Tgt Ion:164 Resp: 2552

Ion Ratio Lower Upper

164 100

162 106.8 86.7 130.1

160 54.6 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.308 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

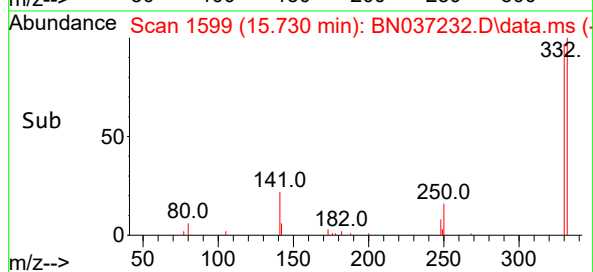
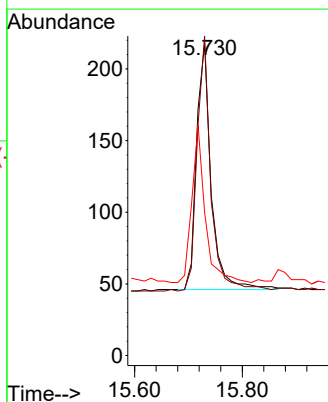
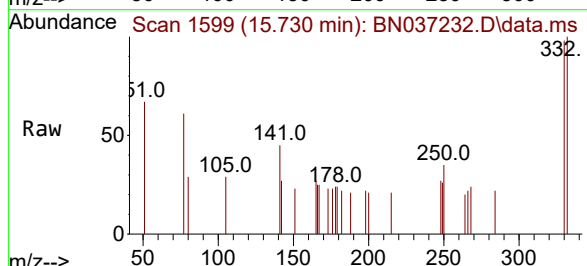
Tgt Ion:330 Resp: 327

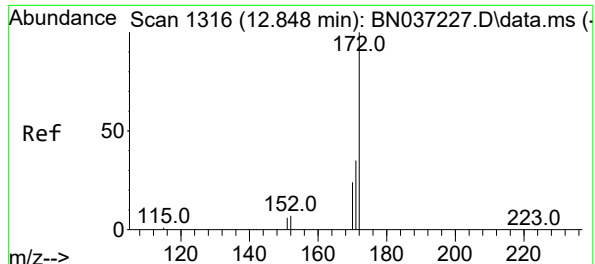
Ion Ratio Lower Upper

330 100

332 97.6 74.9 112.3

141 57.2 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.413 ng

RT: 12.848 min Scan# 1316

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA\_N

ClientSampleId :

ICVBN061325

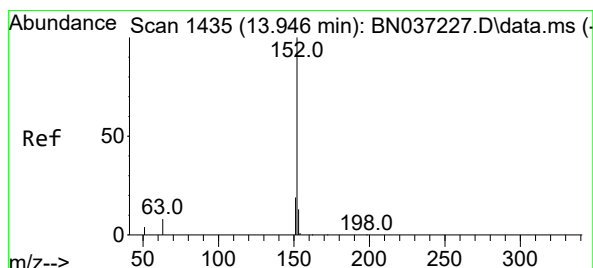
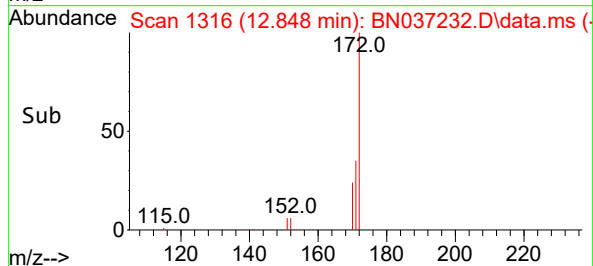
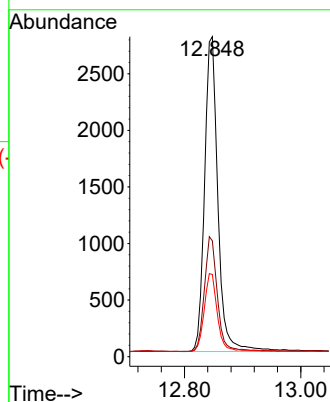
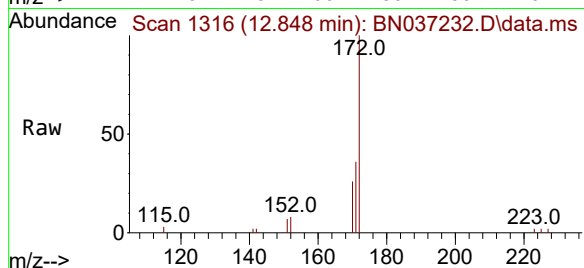
Tgt Ion:172 Resp: 4427

Ion Ratio Lower Upper

172 100

171 36.2 29.8 44.8

170 25.7 21.1 31.7



#16

Acenaphthylene

Concen: 0.409 ng

RT: 13.946 min Scan# 1435

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

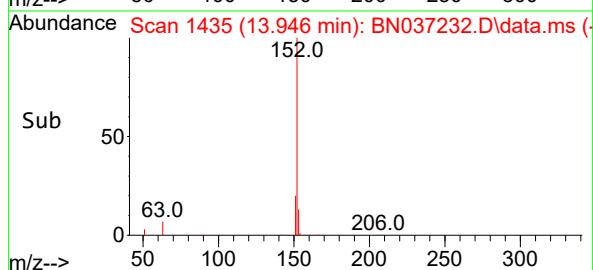
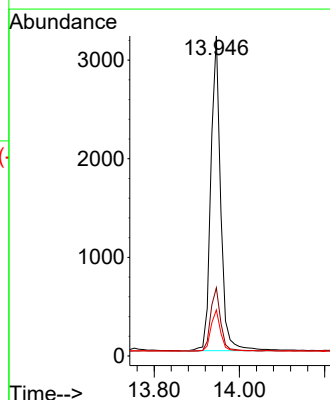
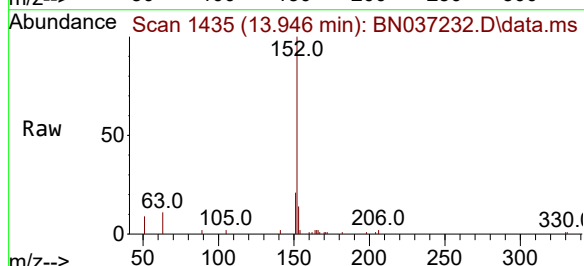
Tgt Ion:152 Resp: 5109

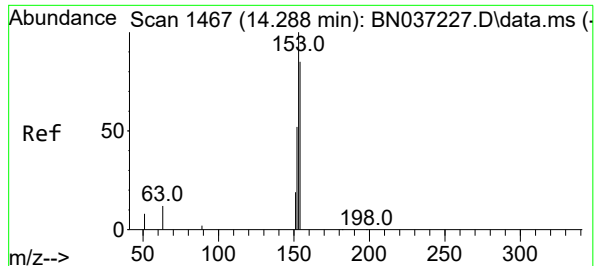
Ion Ratio Lower Upper

152 100

151 20.7 15.7 23.5

153 12.9 10.7 16.1

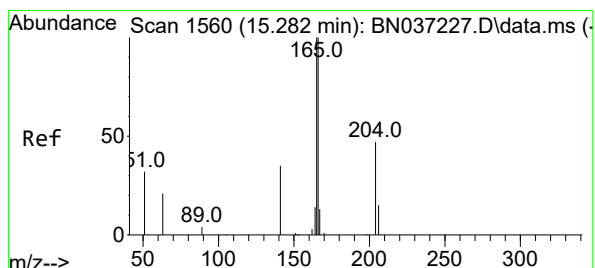
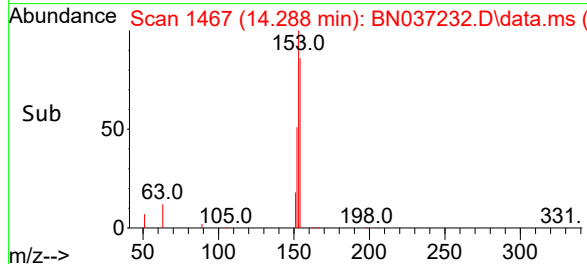
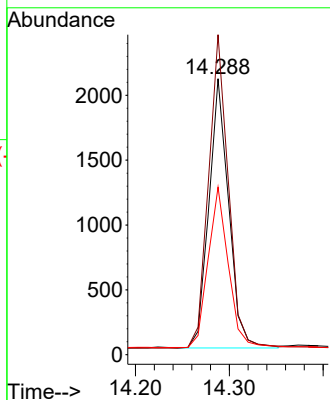
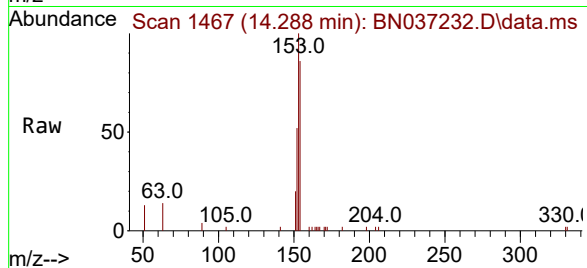




#17  
Acenaphthene  
Concen: 0.378 ng  
RT: 14.288 min Scan# 1467  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

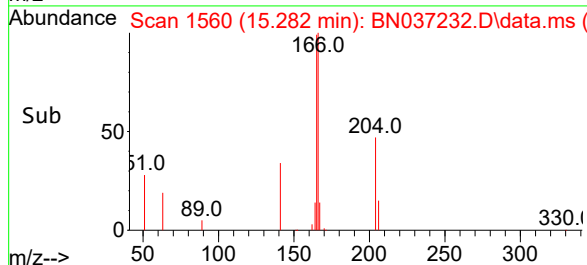
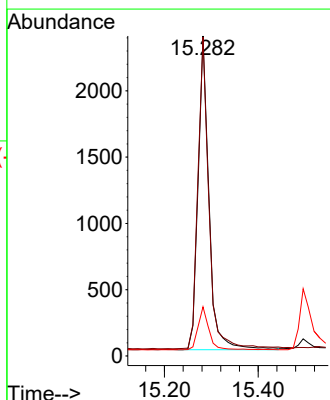
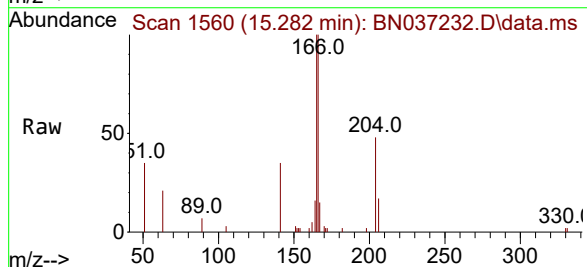
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN061325

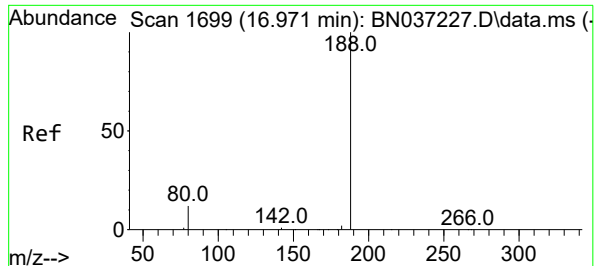
Tgt Ion:154 Resp: 3050  
Ion Ratio Lower Upper  
154 100  
153 117.3 94.6 141.8  
152 61.5 49.6 74.4



#18  
Fluorene  
Concen: 0.369 ng  
RT: 15.282 min Scan# 1560  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

Tgt Ion:166 Resp: 3826  
Ion Ratio Lower Upper  
166 100  
165 99.5 79.8 119.6  
167 13.7 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA\_N

ClientSampleId :

ICVBN061325

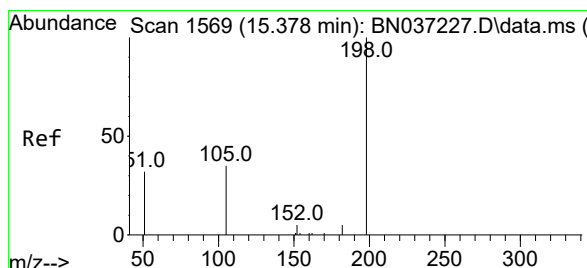
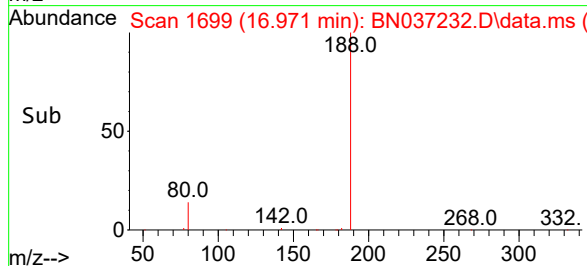
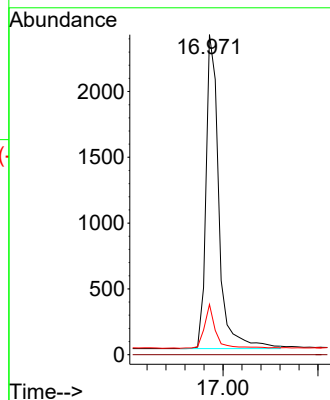
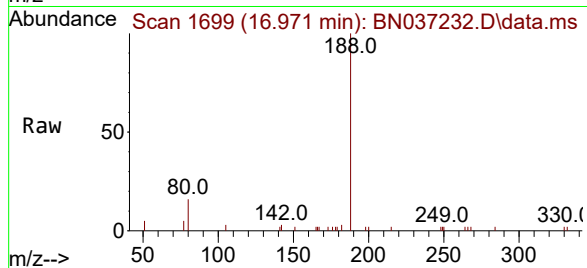
Tgt Ion:188 Resp: 4515

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 15.7 12.2 18.4



#20

4,6-Dinitro-2-methylphenol

Concen: 0.392 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

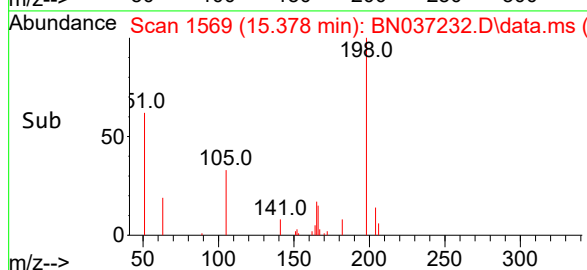
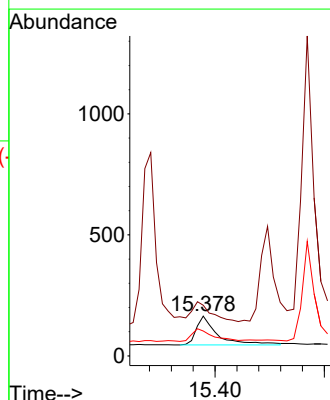
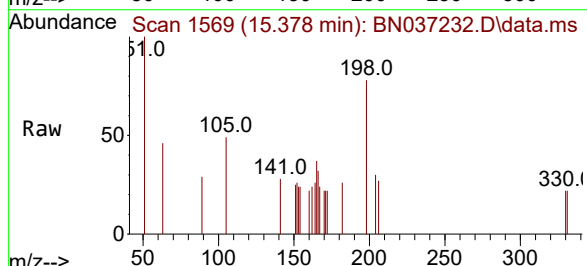
Tgt Ion:198 Resp: 326

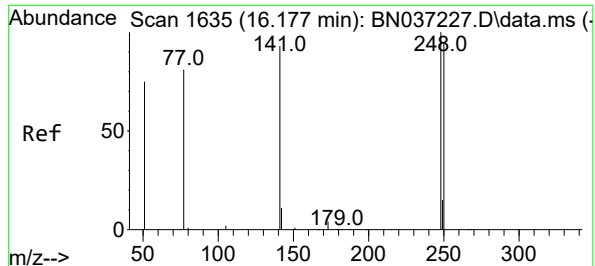
Ion Ratio Lower Upper

198 100

51 127.4 111.2 166.8

105 62.8 54.0 81.0

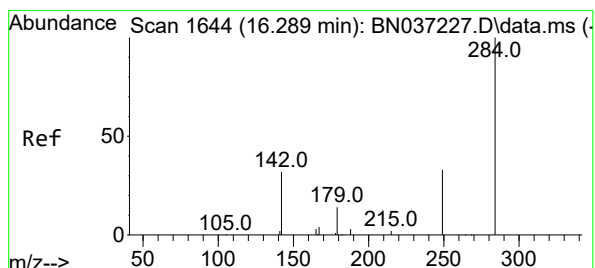
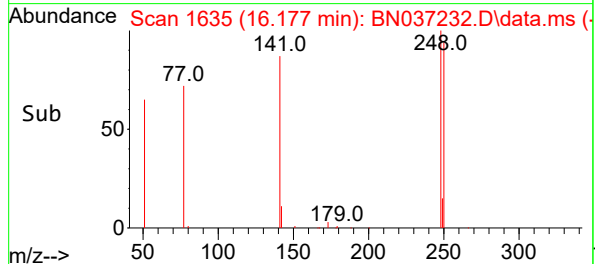
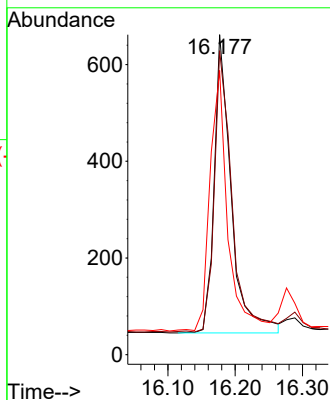
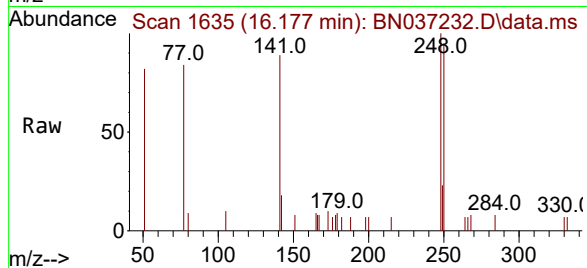




#21  
4-Bromophenyl-phenylether  
Concen: 0.368 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

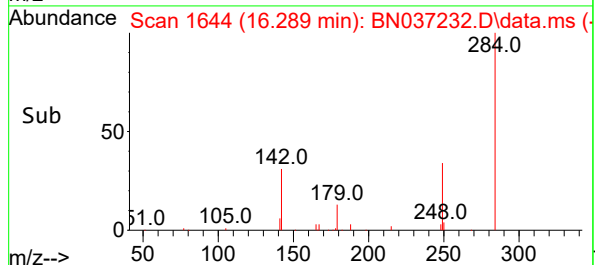
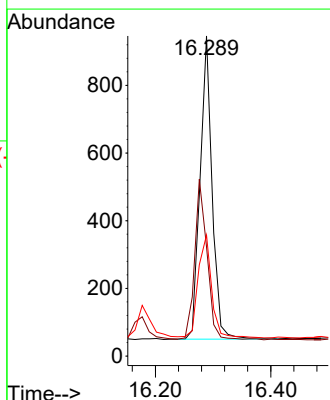
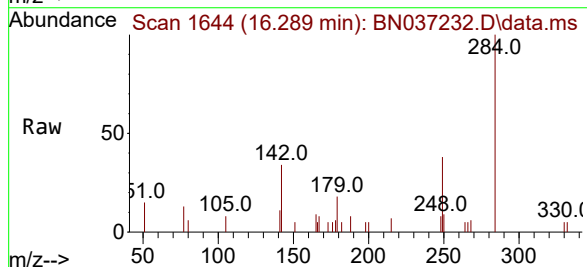
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN061325

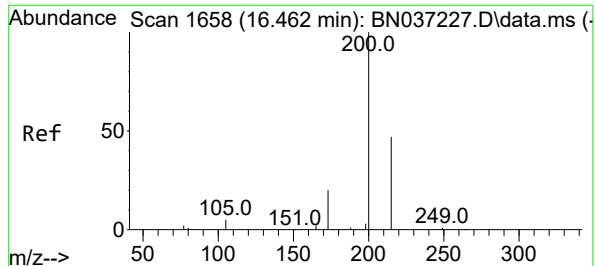
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 248     | 100   |       |       |
| 250     | 95.0  | 76.8  | 115.2 |
| 141     | 88.8  | 75.6  | 113.4 |



#22  
Hexachlorobenzene  
Concen: 0.380 ng  
RT: 16.289 min Scan# 1644  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 284     | 100   |       |       |
| 142     | 55.1  | 43.8  | 65.6  |
| 249     | 38.3  | 28.4  | 42.6  |

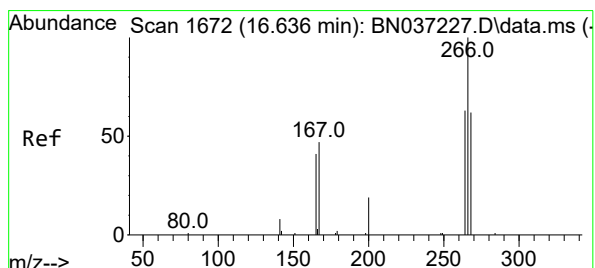
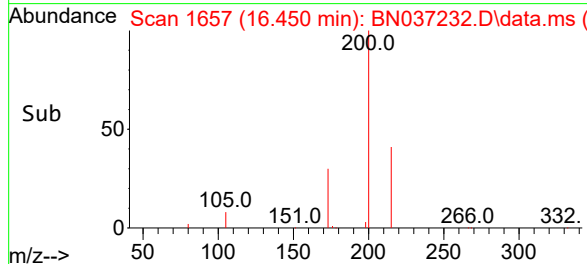
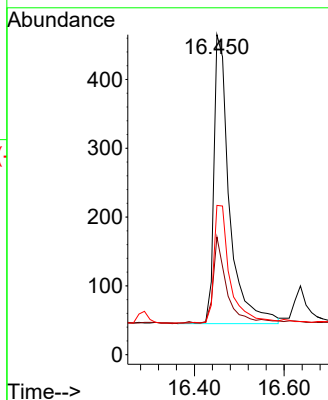
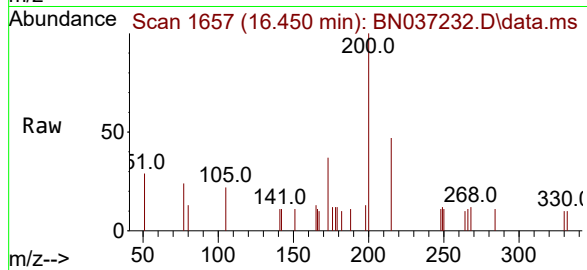




#23  
Atrazine  
Concen: 0.383 ng  
RT: 16.450 min Scan# 1657  
Delta R.T. -0.012 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

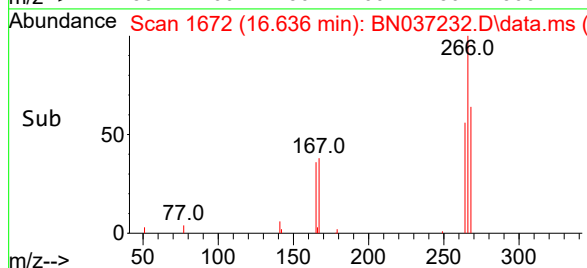
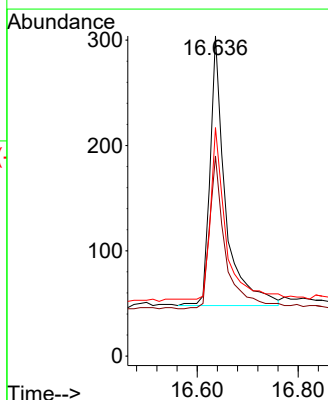
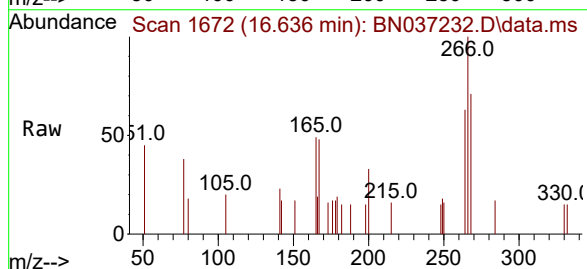
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN061325

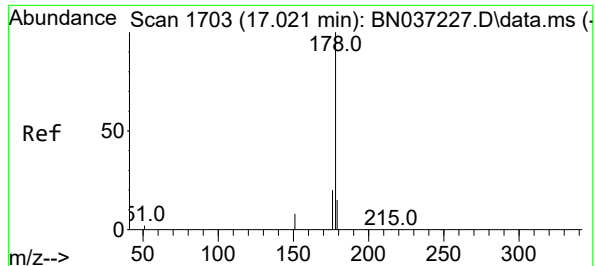
Tgt Ion:200 Resp: 1004  
Ion Ratio Lower Upper  
200 100  
173 36.8 25.1 37.7  
215 46.7 43.7 65.5



#24  
Pentachlorophenol  
Concen: 0.323 ng  
RT: 16.636 min Scan# 1672  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

Tgt Ion:266 Resp: 540  
Ion Ratio Lower Upper  
266 100  
264 59.1 49.2 73.8  
268 62.0 53.4 80.2

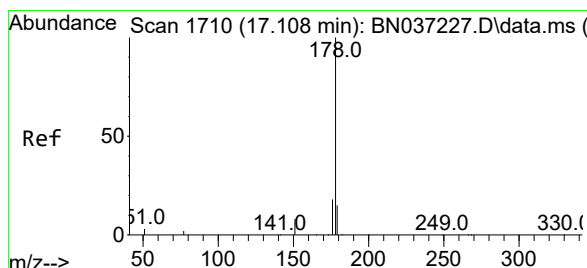
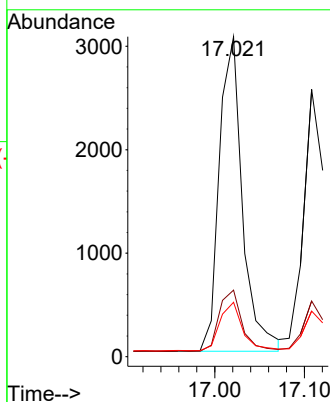
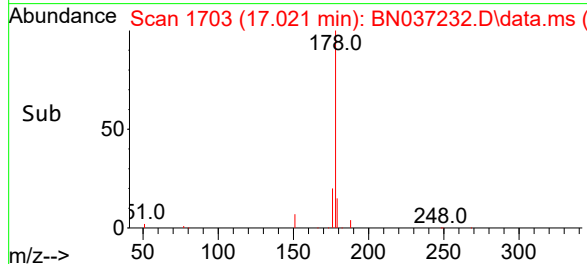
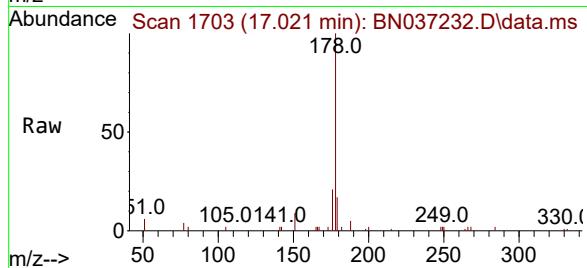




#25  
Phenanthrene  
Concen: 0.381 ng  
RT: 17.021 min Scan# 1703  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

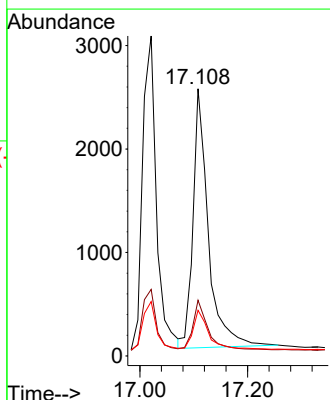
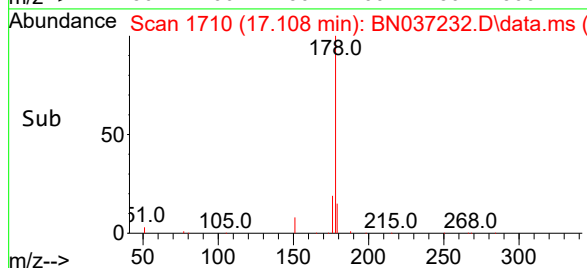
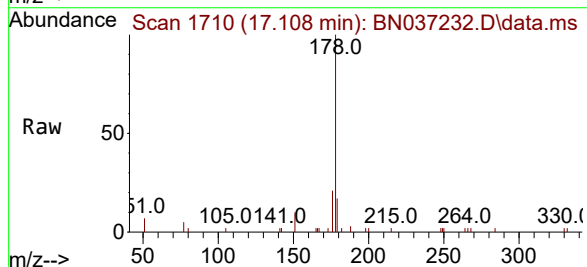
Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN061325

Tgt Ion:178 Resp: 5458  
Ion Ratio Lower Upper  
178 100  
176 19.8 16.3 24.5  
179 15.4 12.6 18.8

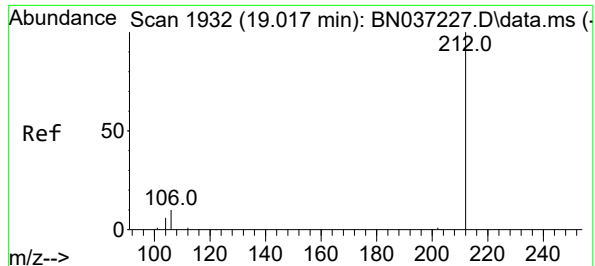


#26  
Anthracene  
Concen: 0.376 ng  
RT: 17.108 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: BN037232.D  
Acq: 13 Jun 2025 17:47

Tgt Ion:178 Resp: 4934  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.1 22.7  
179 15.6 12.4 18.6







#27

Fluoranthene-d10

Concen: 0.369 ng

RT: 19.017 min Scan# 1932

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA\_N

ClientSampleId :

ICVBN061325

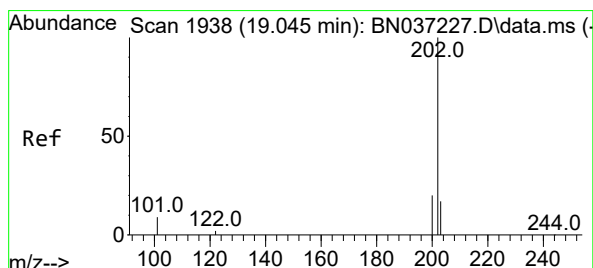
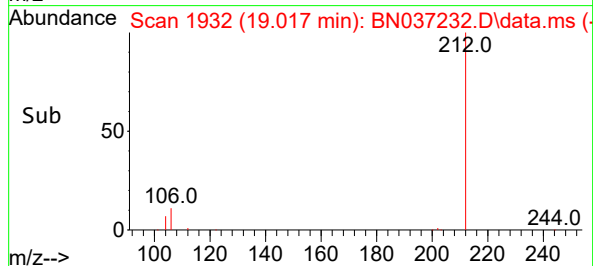
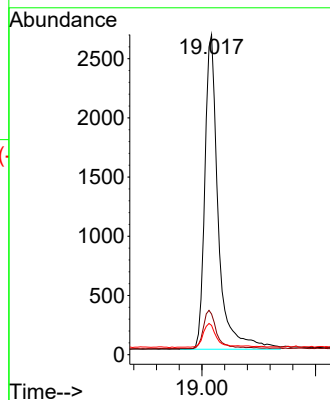
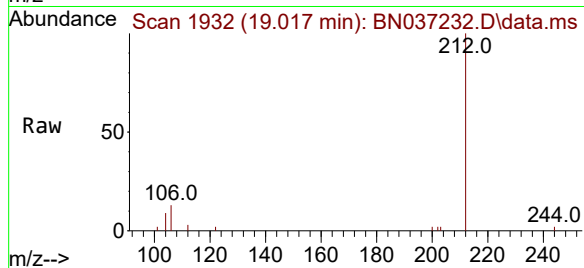
Tgt Ion:212 Resp: 4358

Ion Ratio Lower Upper

212 100

106 12.4 9.3 13.9

104 7.2 5.7 8.5



#28

Fluoranthene

Concen: 0.354 ng

RT: 19.045 min Scan# 1938

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

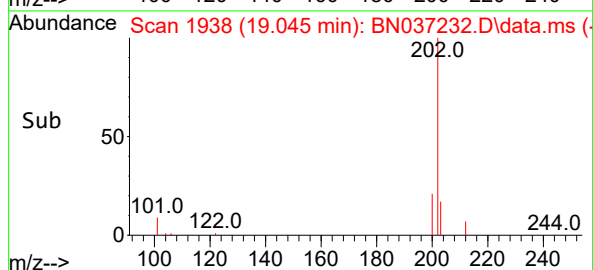
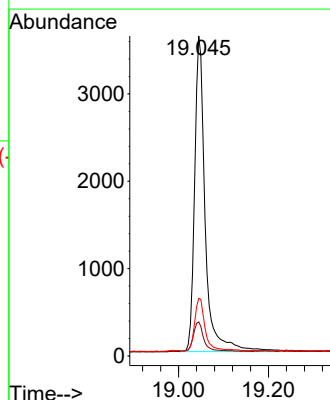
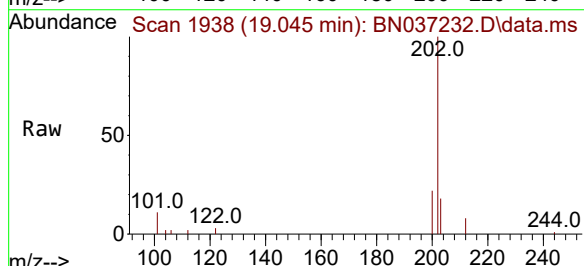
Tgt Ion:202 Resp: 5935

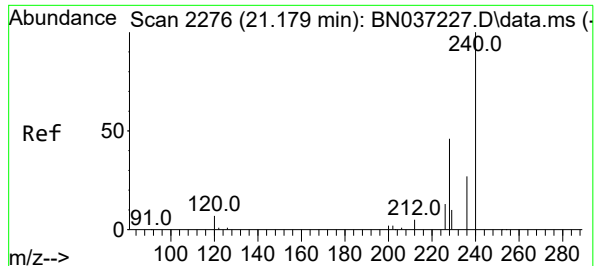
Ion Ratio Lower Upper

202 100

101 10.1 7.1 10.7

203 16.8 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.180 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA\_N

ClientSampleId :

ICVBN061325

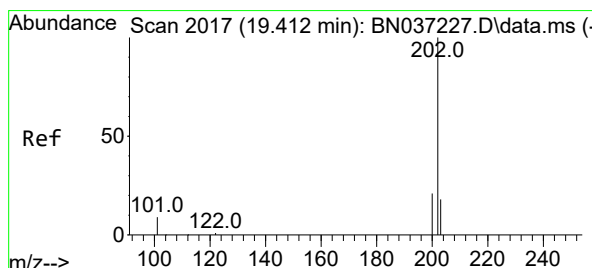
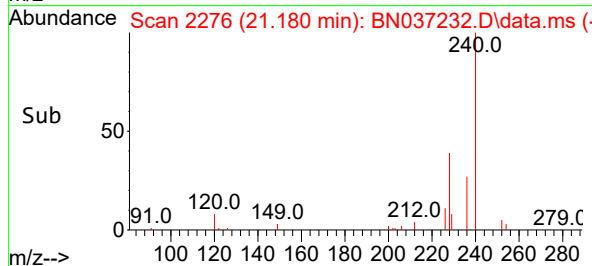
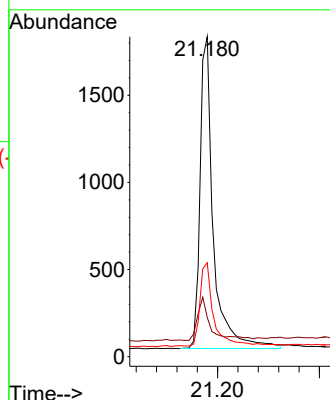
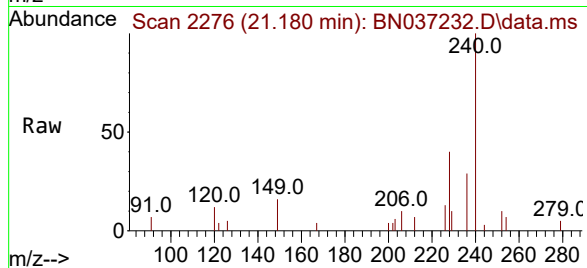
Tgt Ion:240 Resp: 3230

Ion Ratio Lower Upper

240 100

120 12.3 11.3 16.9

236 29.4 24.4 36.6



#30

Pyrene

Concen: 0.392 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

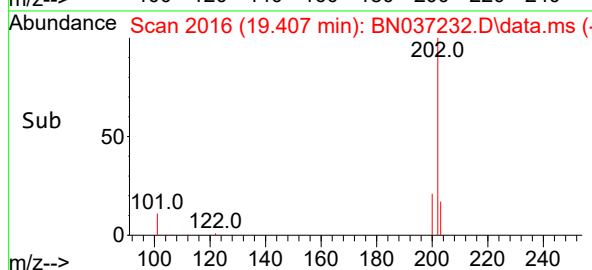
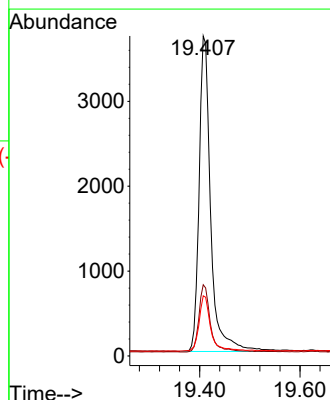
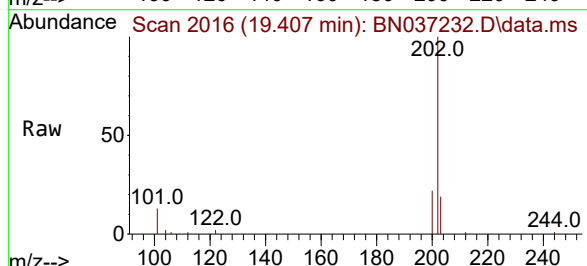
Tgt Ion:202 Resp: 5948

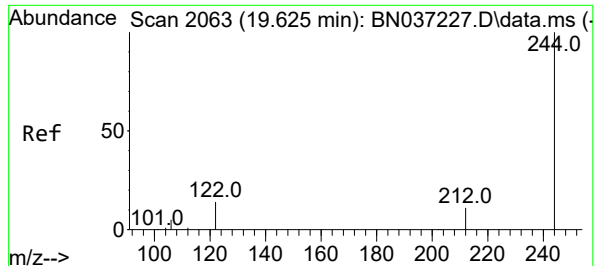
Ion Ratio Lower Upper

202 100

200 21.3 17.2 25.8

203 17.7 14.3 21.5





#31

Terphenyl-d14

Concen: 0.417 ng

RT: 19.625 min Scan# 2063

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA\_N

ClientSampleId :

ICVBN061325

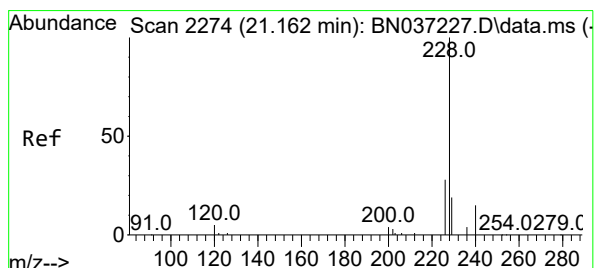
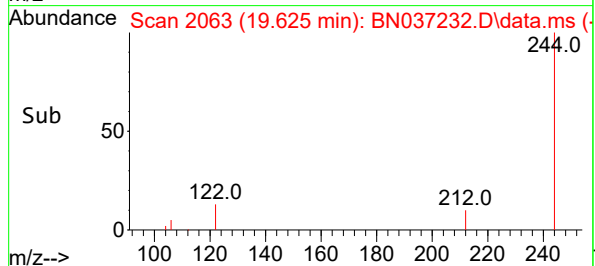
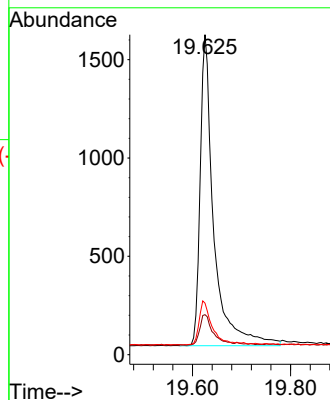
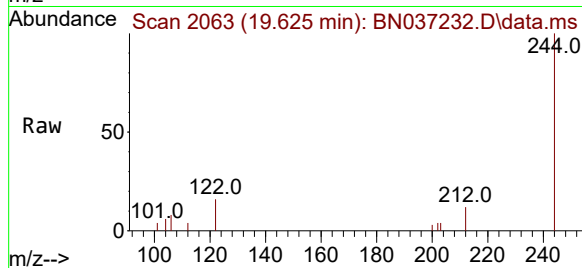
Tgt Ion:244 Resp: 3044

Ion Ratio Lower Upper

244 100

212 12.5 12.2 18.2

122 16.1 14.3 21.5



#32

Benzo(a)anthracene

Concen: 0.384 ng

RT: 21.162 min Scan# 2274

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

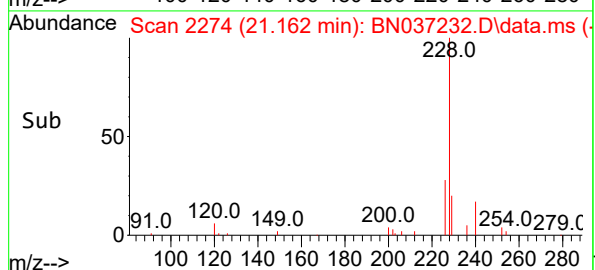
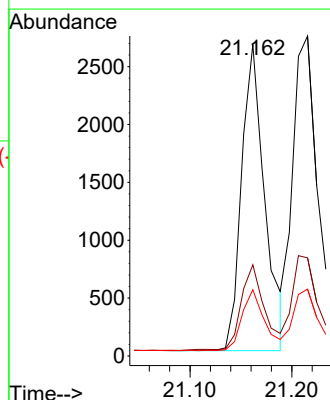
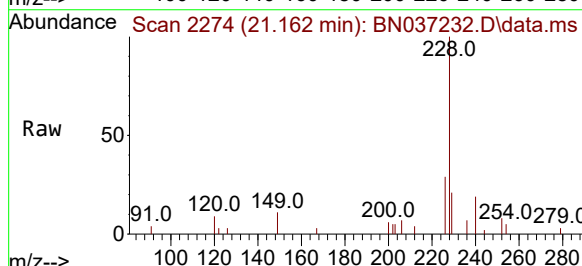
Tgt Ion:228 Resp: 4183

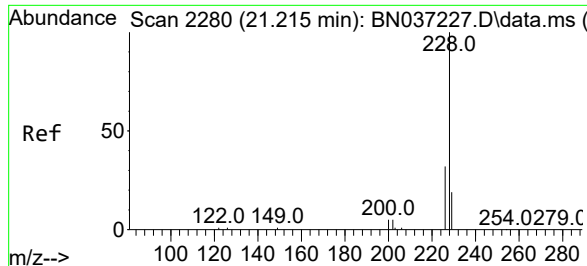
Ion Ratio Lower Upper

228 100

226 29.3 23.8 35.8

229 21.2 17.0 25.4





#33

Chrysene

Concen: 0.390 ng

RT: 21.215 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA\_N

ClientSampleId :

ICVBN061325

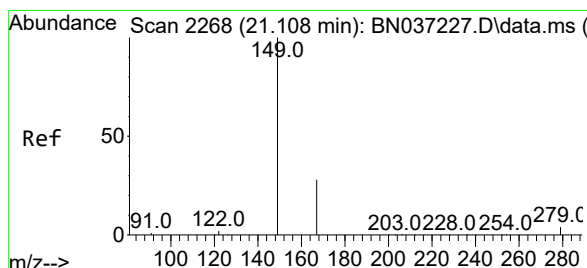
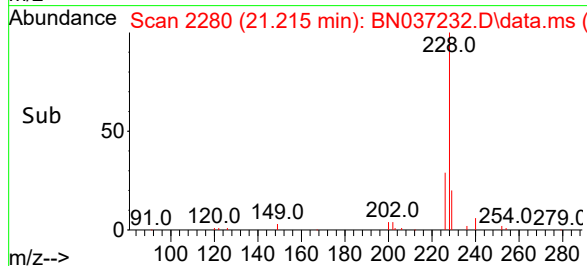
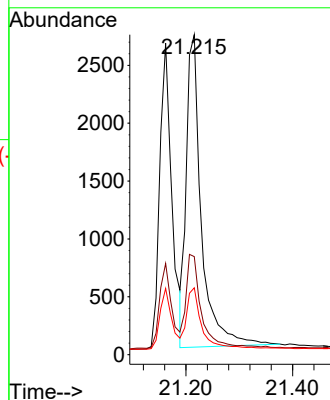
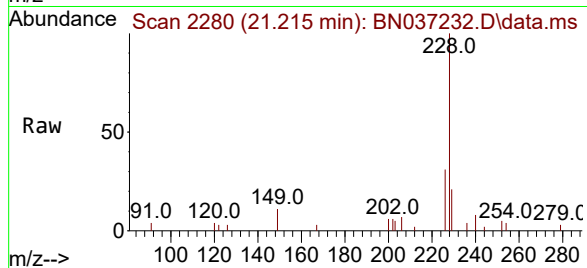
Tgt Ion:228 Resp: 5302

Ion Ratio Lower Upper

228 100

226 30.6 25.8 38.6

229 20.9 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.373 ng

RT: 21.108 min Scan# 2268

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

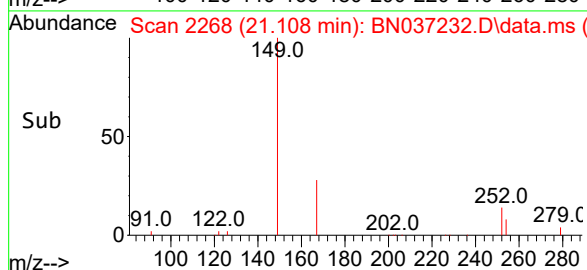
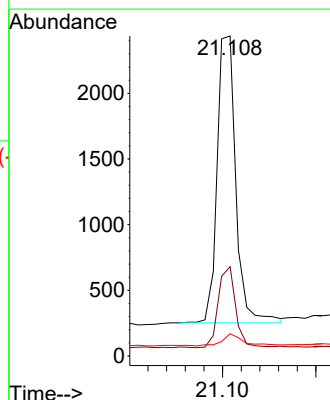
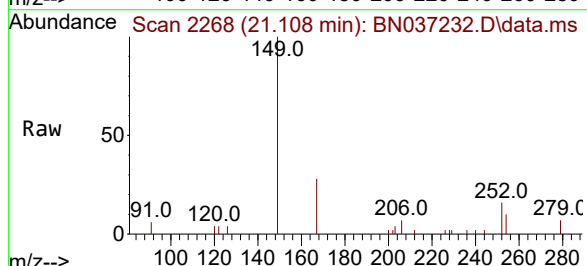
Tgt Ion:149 Resp: 3027

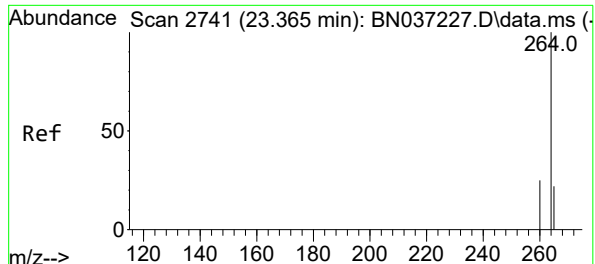
Ion Ratio Lower Upper

149 100

167 26.6 21.3 31.9

279 4.7 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.366 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

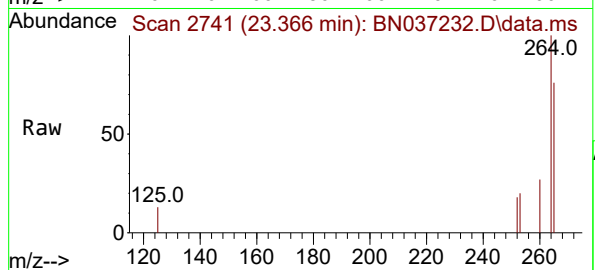
Acq: 13 Jun 2025 17:47

Instrument :

BNA\_N

ClientSampleId :

ICVBN061325



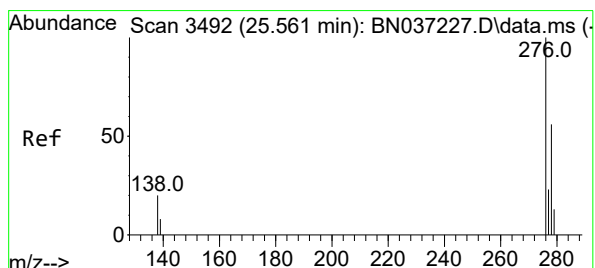
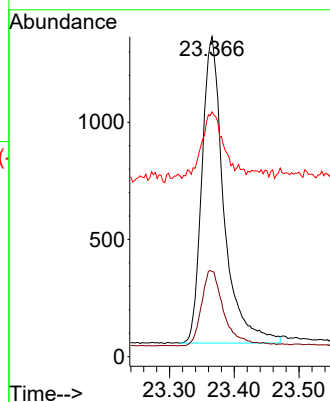
Tgt Ion:264 Resp: 3076

Ion Ratio Lower Upper

264 100

260 26.6 22.8 34.2

265 76.5 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

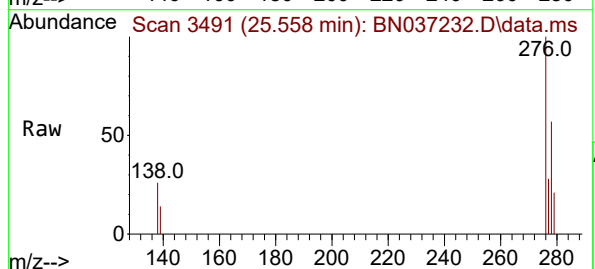
Concen: 0.389 ng

RT: 25.558 min Scan# 3491

Delta R.T. -0.003 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47



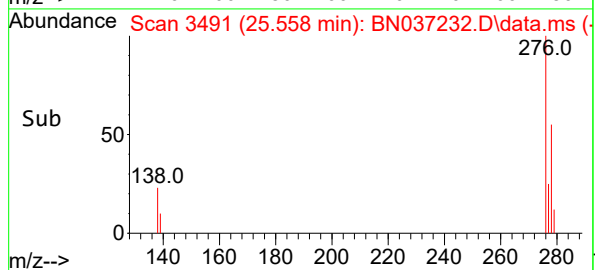
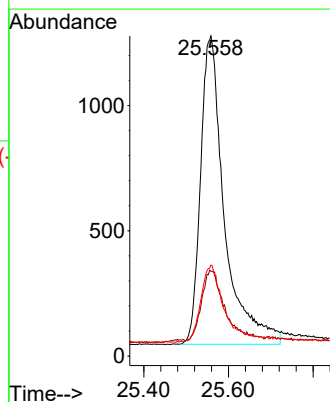
Tgt Ion:276 Resp: 4825

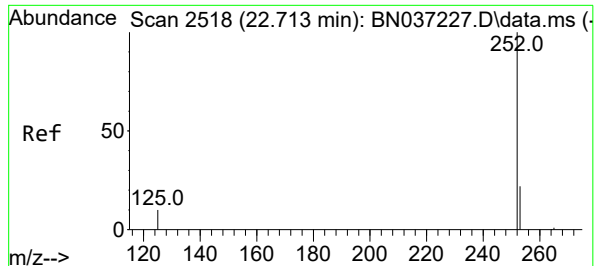
Ion Ratio Lower Upper

276 100

138 21.3 16.8 25.2

277 23.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.366 ng

RT: 22.711 min Scan# 2517

Delta R.T. -0.003 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

Instrument :

BNA\_N

ClientSampleId :

ICVBN061325

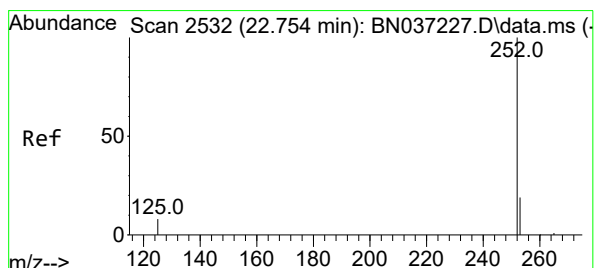
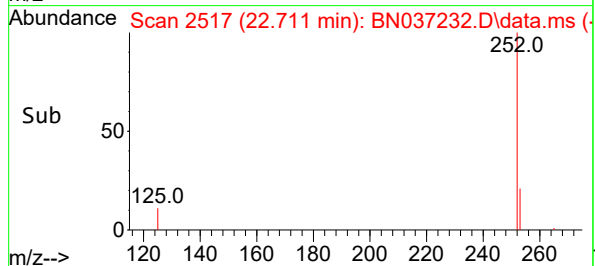
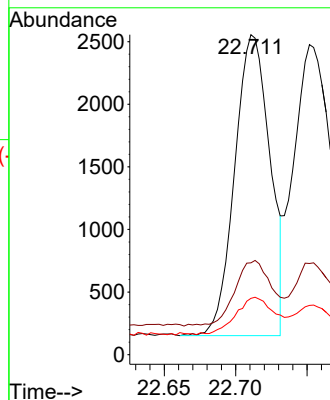
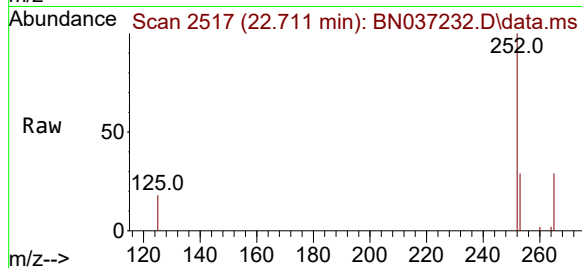
Tgt Ion:252 Resp: 4122

Ion Ratio Lower Upper

252 100

253 28.7 24.9 37.3

125 17.6 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.363 ng

RT: 22.752 min Scan# 2531

Delta R.T. -0.003 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

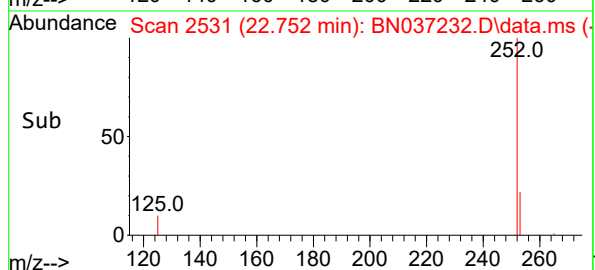
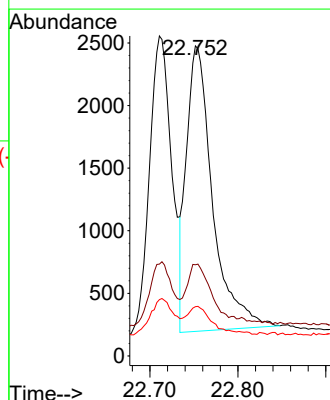
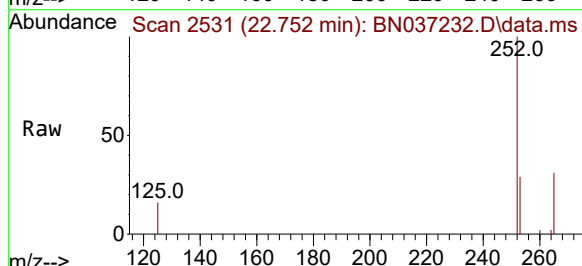
Tgt Ion:252 Resp: 4721

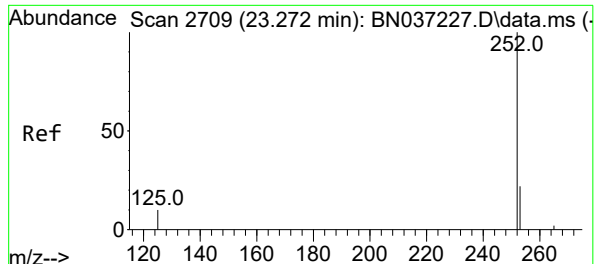
Ion Ratio Lower Upper

252 100

253 29.4 24.6 37.0

125 15.9 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.404 ng

RT: 23.272 min Scan# 21

Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

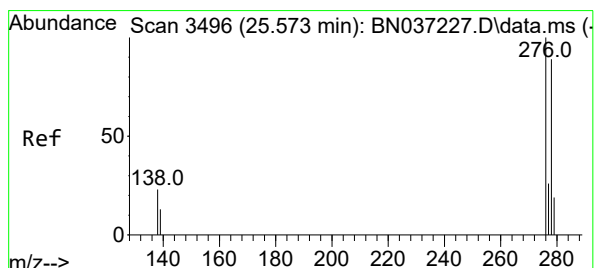
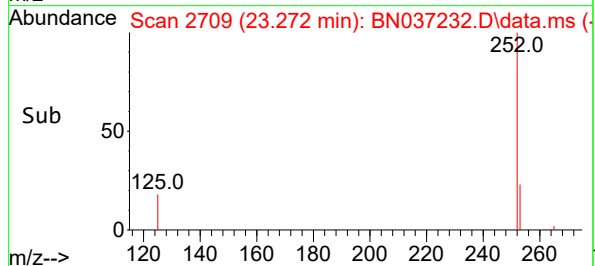
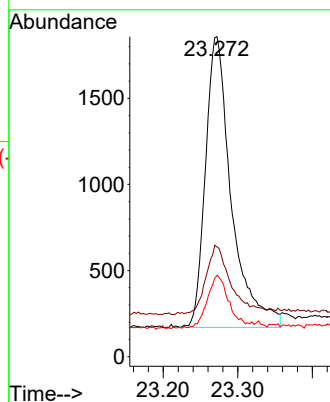
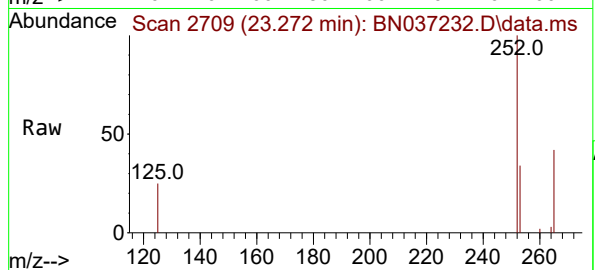
Instrument :

BNA\_N

ClientSampleId :

ICVBN061325

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 4086      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 34.3  | 29.4 44.2 |
| 125         | 25.4  | 16.2 24.2 |



#40

Dibenzo(a,h)anthracene

Concen: 0.365 ng

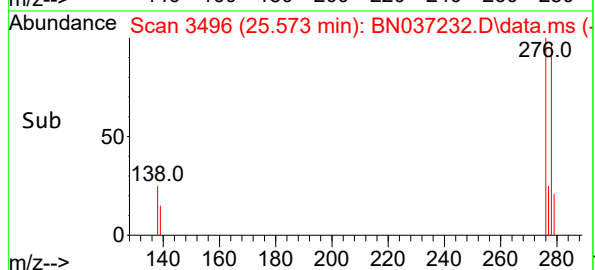
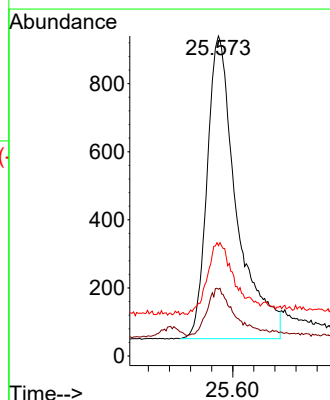
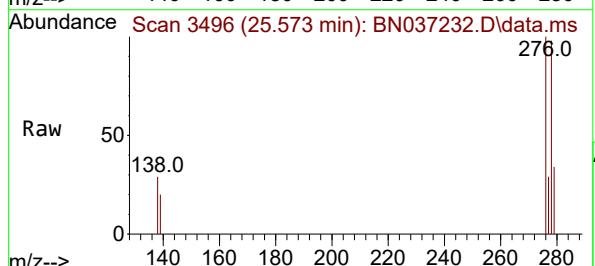
RT: 25.573 min Scan# 3496

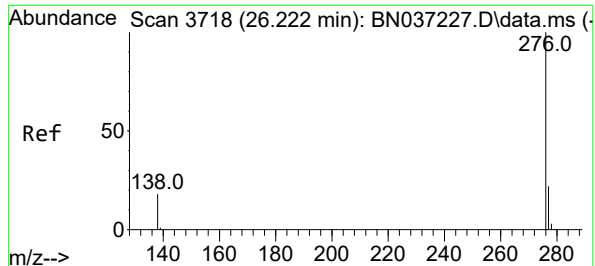
Delta R.T. 0.000 min

Lab File: BN037232.D

Acq: 13 Jun 2025 17:47

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 3443      |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 20.9  | 17.8 26.6 |
| 279         | 34.5  | 31.3 46.9 |





#41

Benzo(g,h,i)perylene

Concen: 0.354 ng

RT: 26.219 min Scan# 31

Delta R.T. -0.003 min

Lab File: BN037232.D

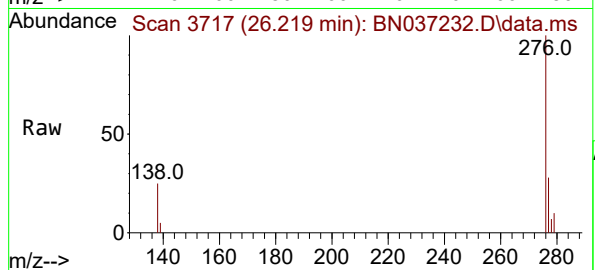
Acq: 13 Jun 2025 17:47

Instrument :

BNA\_N

ClientSampleId :

ICVBN061325



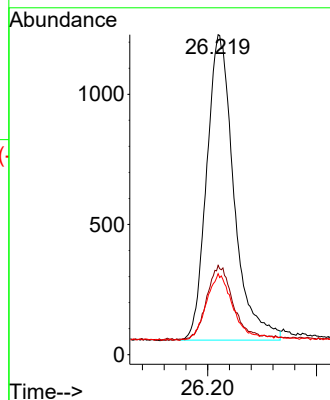
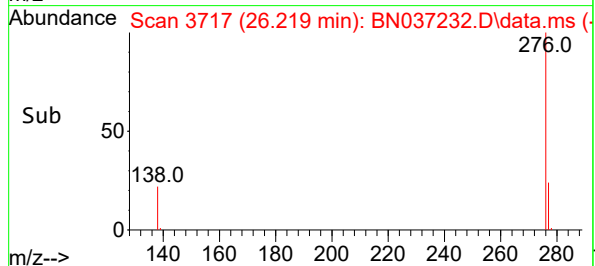
Tgt Ion:276 Resp: 4068

Ion Ratio Lower Upper

276 100

277 27.9 22.0 33.0

138 25.3 18.4 27.6





Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037232.D  
 Acq On : 13 Jun 2025 17:47  
 Operator : RC/JU  
 Sample : SSTDICV0.4  
 Misc :  
 ALS Vial : 10 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 ICVBN061325

Quant Time: Jun 13 18:44:16 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:43:34 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   | 154#  | 0.00     |
| 2       | 1,4-Dioxane                | 0.549 | 0.551 | -0.4  | 162#  | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.250 | 1.137 | 9.0   | 137   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.982 | 0.864 | 12.0  | 142   | 0.00     |
| 5 S     | Phenol-d6                  | 1.035 | 0.931 | 10.0  | 149   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.927 | 1.062 | -14.6 | 188#  | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0   | 153#  | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.395 | 0.406 | -2.8  | 161#  | 0.00     |
| 9       | Naphthalene                | 1.158 | 1.119 | 3.4   | 151#  | 0.00     |
| 10      | Hexachlorobutadiene        | 0.282 | 0.269 | 4.6   | 136   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.537 | 0.533 | 0.7   | 146   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.704 | 0.627 | 10.9  | 136   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0   | 147   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.166 | 0.128 | 22.9  | 110   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 1.681 | 1.735 | -3.2  | 150   | 0.00     |
| 16      | Acenaphthylene             | 1.960 | 2.002 | -2.1  | 157#  | 0.00     |
| 17      | Acenaphthene               | 1.265 | 1.195 | 5.5   | 142   | 0.00     |
| 18      | Fluorene                   | 1.625 | 1.499 | 7.8   | 138   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0   | 141   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.092 | 0.072 | 21.7  | 155#  | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.261 | 0.240 | 8.0   | 139   | 0.00     |
| 22      | Hexachlorobenzene          | 0.302 | 0.287 | 5.0   | 130   | 0.00     |
| 23      | Atrazine                   | 0.232 | 0.222 | 4.3   | 141   | -0.01    |
| 24      | Pentachlorophenol          | 0.148 | 0.120 | 18.9  | 136   | 0.00     |
| 25      | Phenanthrene               | 1.269 | 1.209 | 4.7   | 144   | 0.00     |
| 26      | Anthracene                 | 1.161 | 1.093 | 5.9   | 143   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.046 | 0.965 | 7.7   | 130   | 0.00     |
| 28      | Fluoranthene               | 1.485 | 1.315 | 11.4  | 132   | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0   | 141   | 0.00     |
| 30      | Pyrene                     | 1.881 | 1.841 | 2.1   | 133   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.904 | 0.942 | -4.2  | 141   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.351 | 1.295 | 4.1   | 149   | 0.00     |
| 33      | Chrysene                   | 1.683 | 1.641 | 2.5   | 137   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 1.006 | 0.937 | 6.9   | 129   | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0   | 143   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.613 | 1.569 | 2.7   | 149   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.340 | 8.4   | 139   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.689 | 1.535 | 9.1   | 135   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.316 | 1.328 | -0.9  | 154#  | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 1.227 | 1.119 | 8.8   | 153#  | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 1.496 | 1.322 | 11.6  | 131   | 0.00     |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037232.D  
Acq On : 13 Jun 2025 17:47  
Operator : RC/JU  
Sample : SSTDICV0.4  
Misc :  
ALS Vial : 10 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
ICVBN061325

Quant Time: Jun 13 18:44:16 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 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   | 154   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.402 | -0.5  | 162   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.364 | 9.0   | 137   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.352 | 12.0  | 142   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.360 | 10.0  | 149   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.458 | -14.5 | 188   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 153   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.410 | -2.5  | 161   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.386 | 3.5   | 151   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.382 | 4.5   | 136   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.398 | 0.5   | 146   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.356 | 11.0  | 136   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 147   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.308 | 23.0  | 110   | 0.00     |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.413 | -3.2  | 150   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.409 | -2.2  | 157   | 0.00     |
| 17      | Acenaphthene               | 0.400  | 0.378 | 5.5   | 142   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.369 | 7.8   | 138   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 141   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.392 | 2.0   | 155   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.368 | 8.0   | 139   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.380 | 5.0   | 130   | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.383 | 4.3   | 141   | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.323 | 19.3  | 136   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.381 | 4.8   | 144   | 0.00     |
| 26      | Anthracene                 | 0.400  | 0.376 | 6.0   | 143   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.369 | 7.8   | 130   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.354 | 11.5  | 132   | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 141   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.392 | 2.0   | 133   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.417 | -4.2  | 141   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.384 | 4.0   | 149   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.390 | 2.5   | 137   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.373 | 6.8   | 129   | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 143   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.389 | 2.8   | 149   | 0.00     |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.366 | 8.5   | 139   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.363 | 9.3   | 135   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.404 | -1.0  | 154   | 0.00     |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.365 | 8.8   | 153   | 0.00     |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.354 | 11.5  | 131   | 0.00     |

(#) = Out of Range

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



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

7C

## SEMIVOLATILE CONTINUING CALIBRATION CHECK

Lab Name: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2316 SAS No.: Q2316 SDG No.: Q2316

Instrument ID: BNA\_N Calibration Date/Time: 06/14/2025 22:31

Lab File ID: BN037273.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4 Init. Calib. Time(s): 13:33 17:11

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D   | MAX%D |
|-------------------------|-------|--------|------------|------|-------|
| 2-Methylnaphthalene-d10 | 0.537 | 0.562  |            | 4.7  | 20.0  |
| Fluoranthene-d10        | 1.047 | 1.055  |            | 0.9  | 20.0  |
| 2-Fluorophenol          | 0.982 | 0.959  |            | -2.3 | 20.0  |
| Phenol-d6               | 1.035 | 1.017  |            | -1.7 | 20.0  |
| Nitrobenzene-d5         | 0.395 | 0.415  |            | 5.1  | 20.0  |
| 2-Fluorobiphenyl        | 1.681 | 1.763  |            | 4.9  | 20.0  |
| 2,4,6-Tribromophenol    | 0.166 | 0.170  |            | 2.4  | 20.0  |
| Terphenyl-d14           | 0.904 | 0.900  |            | -0.4 | 20.0  |
| 1,4-Dioxane             | 0.549 | 0.499  |            | -9.1 | 20.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037273.D  
 Acq On : 14 Jun 2025 22:31  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

Quant Time: Jun 16 02:45:45 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:43:34 2025  
 Response via : Initial Calibration

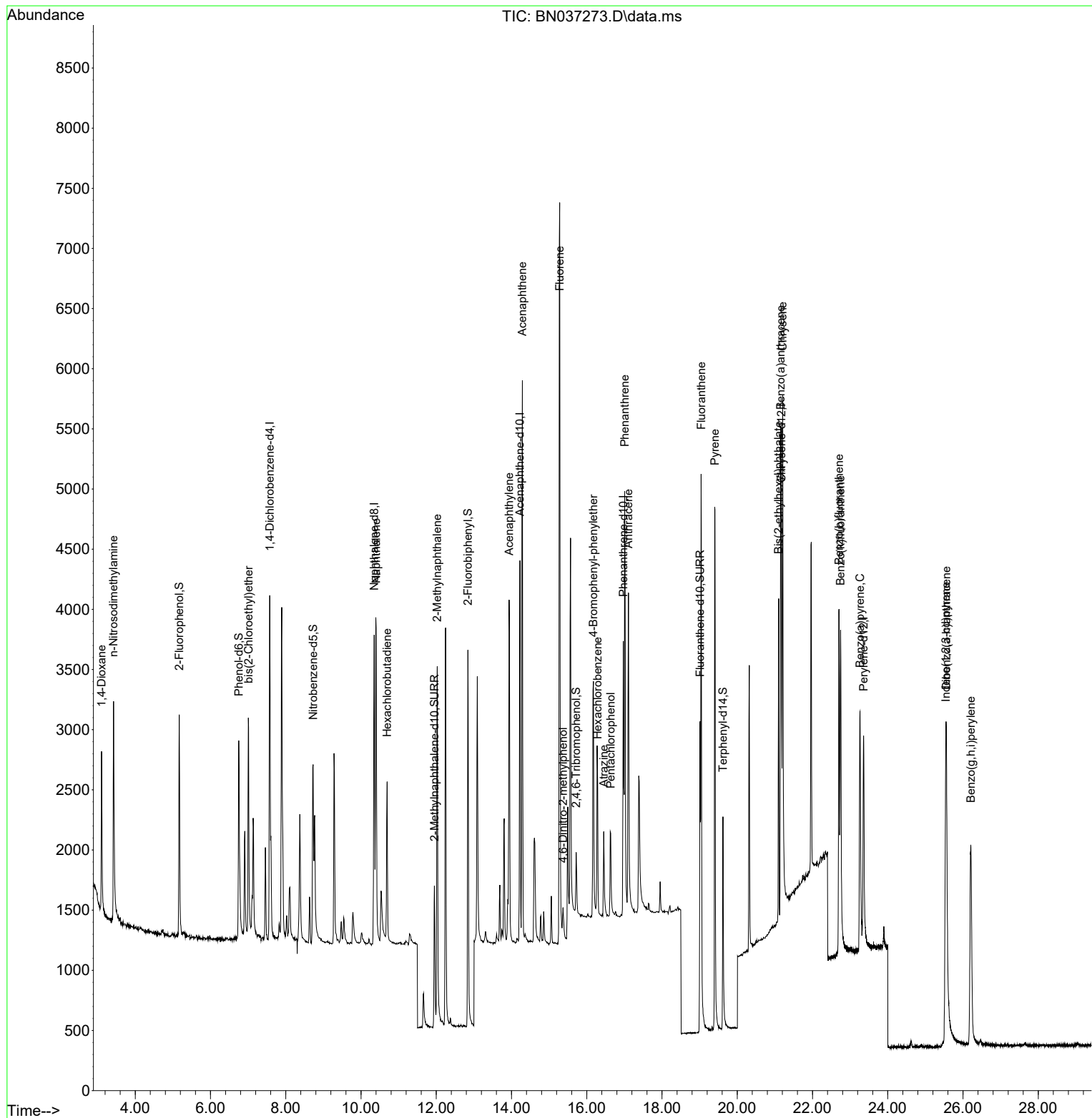
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1389     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.351 | 136  | 3410     | 0.400 | ng    | #-0.01    |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1759     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 16.971 | 188  | 3220     | 0.400 | ng    | # 0.00    |
| 29) Chrysene-d12              | 21.171 | 240  | 2454     | 0.400 | ng    | 0.00      |
| 35) Perylene-d12              | 23.357 | 264  | 2514     | 0.400 | ng    | 0.00      |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.170  | 112  | 1332     | 0.390 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.752  | 99   | 1412     | 0.393 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.728  | 82   | 1416     | 0.420 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 11.950 | 152  | 1918     | 0.419 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.718 | 330  | 299      | 0.409 | ng    | -0.01     |
| 15) 2-Fluorobiphenyl          | 12.843 | 172  | 3101     | 0.420 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.012 | 212  | 3397     | 0.403 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.621 | 244  | 2208     | 0.398 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.104  | 88   | 693      | 0.364 | ng    | Qvalue 96 |
| 3) n-Nitrosodimethylamine     | 3.422  | 42   | 1864     | 0.429 | ng    | # 93      |
| 6) bis(2-Chloroethyl)ether    | 7.012  | 93   | 1404     | 0.436 | ng    | 93        |
| 9) Naphthalene                | 10.404 | 128  | 3924     | 0.397 | ng    | 99        |
| 10) Hexachlorobutadiene       | 10.693 | 225  | 982      | 0.409 | ng    | # 97      |
| 12) 2-Methylnaphthalene       | 12.026 | 142  | 2355     | 0.392 | ng    | 98        |
| 16) Acenaphthylene            | 13.935 | 152  | 3330     | 0.386 | ng    | 99        |
| 17) Acenaphthene              | 14.288 | 154  | 2169     | 0.390 | ng    | 98        |
| 18) Fluorene                  | 15.282 | 166  | 2772     | 0.388 | ng    | 97        |
| 20) 4,6-Dinitro-2-methylph... | 15.368 | 198  | 265      | 0.430 | ng    | 94        |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 859      | 0.409 | ng    | # 84      |
| 22) Hexachlorobenzene         | 16.289 | 284  | 961      | 0.395 | ng    | 98        |
| 23) Atrazine                  | 16.450 | 200  | 719      | 0.384 | ng    | 94        |
| 24) Pentachlorophenol         | 16.636 | 266  | 455      | 0.382 | ng    | 97        |
| 25) Phenanthrene              | 17.009 | 178  | 3964     | 0.388 | ng    | 98        |
| 26) Anthracene                | 17.108 | 178  | 3522     | 0.377 | ng    | 99        |
| 28) Fluoranthene              | 19.040 | 202  | 4423     | 0.370 | ng    | 98        |
| 30) Pyrene                    | 19.407 | 202  | 4538     | 0.393 | ng    | 100       |
| 32) Benzo(a)anthracene        | 21.153 | 228  | 3255     | 0.393 | ng    | 98        |
| 33) Chrysene                  | 21.207 | 228  | 4162     | 0.403 | ng    | 100       |
| 34) Bis(2-ethylhexyl)phtha... | 21.099 | 149  | 2318     | 0.376 | ng    | 99        |
| 36) Indeno(1,2,3-cd)pyrene    | 25.541 | 276  | 4291     | 0.423 | ng    | 99        |
| 37) Benzo(b)fluoranthene      | 22.705 | 252  | 3555     | 0.387 | ng    | 97        |
| 38) Benzo(k)fluoranthene      | 22.746 | 252  | 3981     | 0.375 | ng    | 97        |
| 39) Benzo(a)pyrene            | 23.260 | 252  | 3280     | 0.397 | ng    | 95        |
| 40) Dibenzo(a,h)anthracene    | 25.558 | 278  | 3174     | 0.412 | ng    | 93        |
| 41) Benzo(g,h,i)perylene      | 26.210 | 276  | 3816     | 0.406 | ng    | 97        |

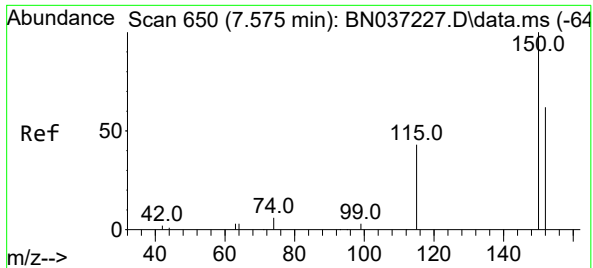
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037273.D  
Acq On : 14 Jun 2025 22:31  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Quant Time: Jun 16 02:45:45 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 2025  
Response via : Initial Calibration

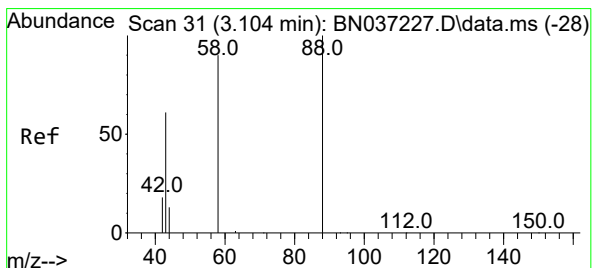
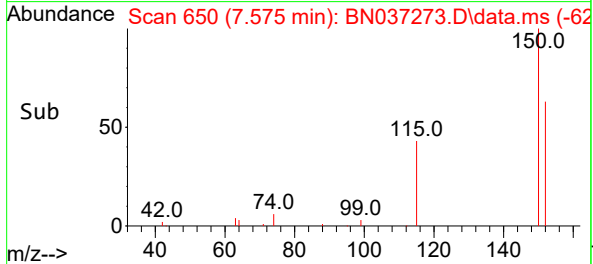
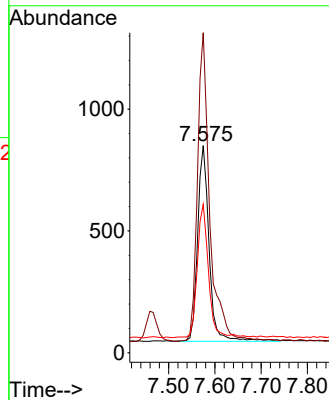
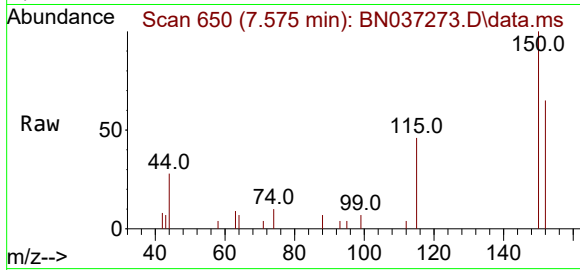




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

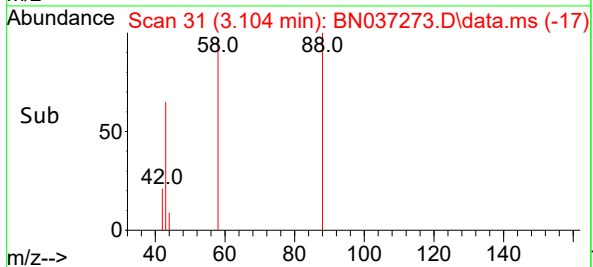
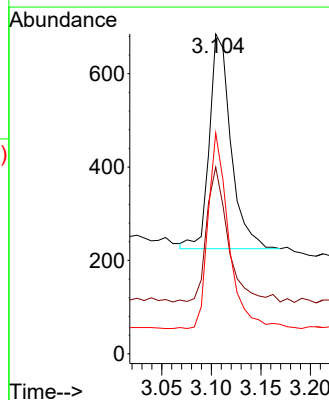
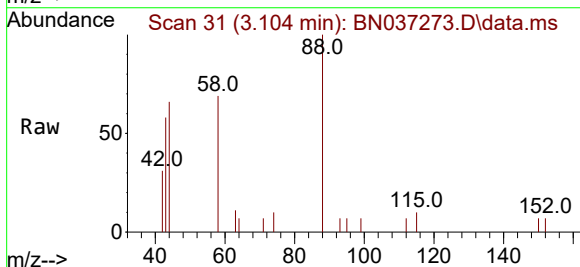
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:152 Resp: 1389  
Ion Ratio Lower Upper  
152 100  
150 154.6 125.2 187.8  
115 71.6 58.4 87.6

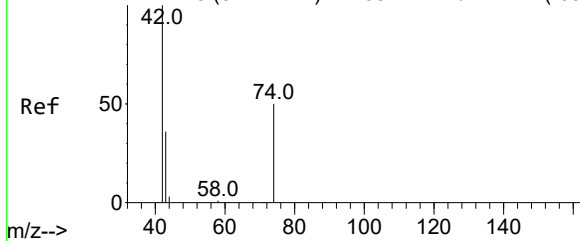


#2  
1,4-Dioxane  
Concen: 0.364 ng  
RT: 3.104 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

Tgt Ion: 88 Resp: 693  
Ion Ratio Lower Upper  
88 100  
43 62.9 52.6 79.0  
58 87.4 73.5 110.3



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.429 ng

RT: 3.422 min Scan# 75

Delta R.T. 0.000 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

Tgt Ion: 42 Resp: 1864

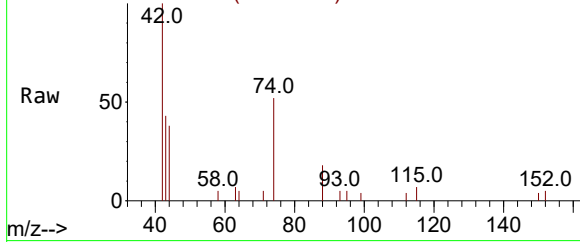
Ion Ratio Lower Upper

42 100

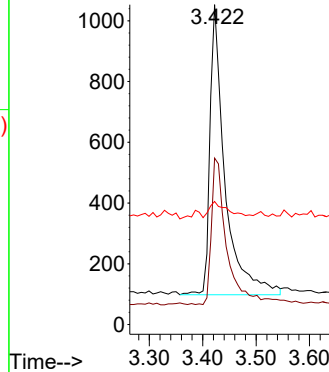
74 50.3 44.6 66.8

44 6.8 3.5 5.3#

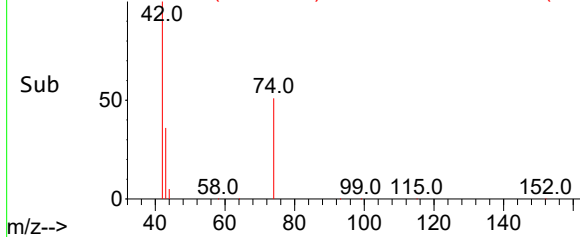
Abundance Scan 75 (3.422 min): BN037273.D\data.ms



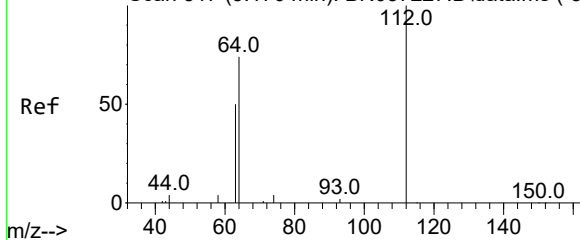
Abundance



Abundance Scan 75 (3.422 min): BN037273.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.390 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.000 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Tgt Ion: 112 Resp: 1332

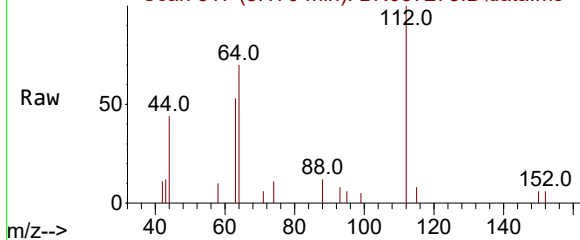
Ion Ratio Lower Upper

112 100

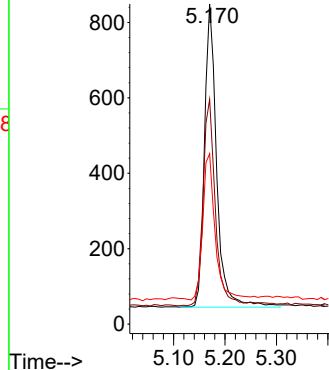
64 68.3 57.2 85.8

63 49.5 39.8 59.6

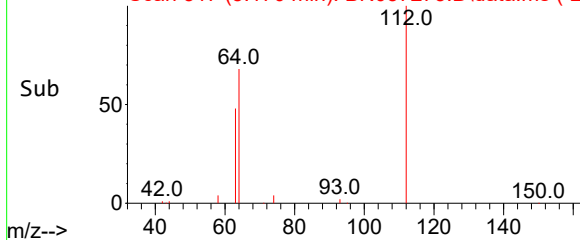
Abundance Scan 317 (5.170 min): BN037273.D\data.ms

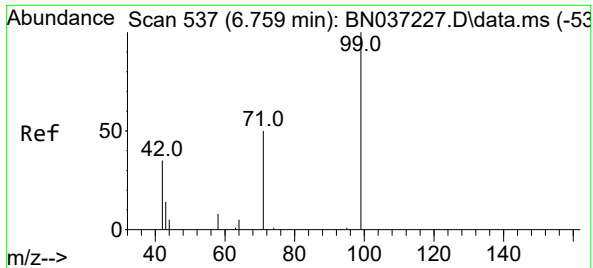


Abundance



Abundance Scan 317 (5.170 min): BN037273.D\data.ms (-28)

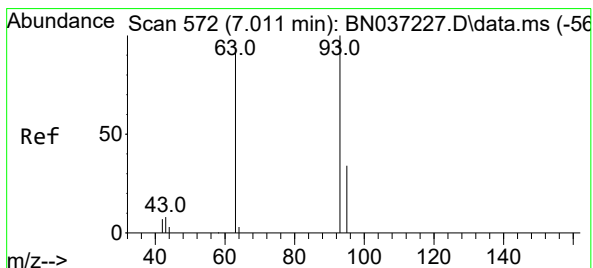
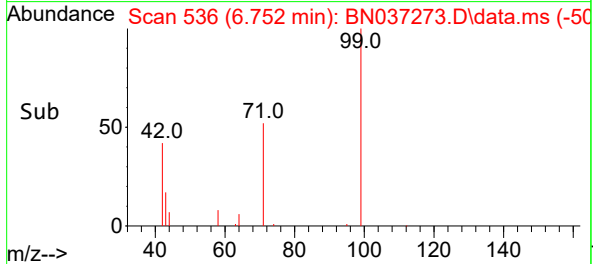
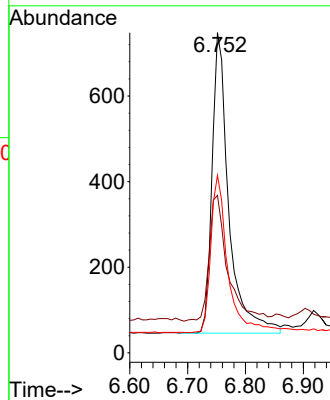
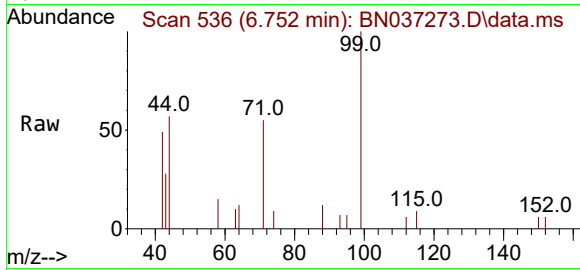




#5  
Phenol-d6  
Concen: 0.393 ng  
RT: 6.752 min Scan# 51  
Delta R.T. -0.007 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

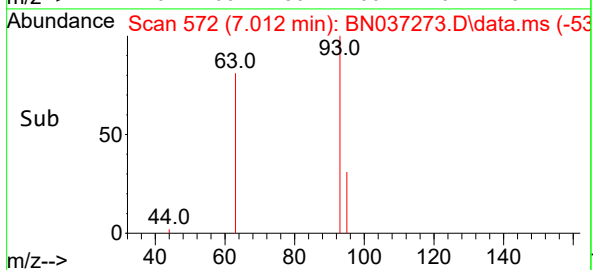
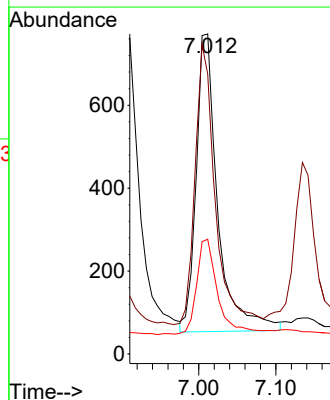
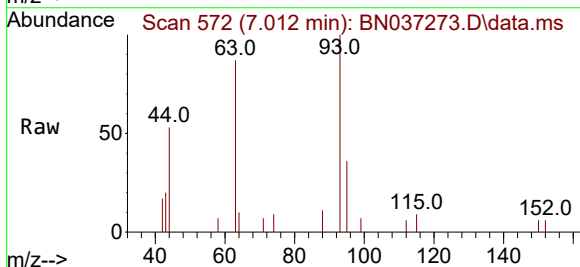
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 46.5  | 36.2  | 54.4  |
| 71      | 55.0  | 42.4  | 63.6  |

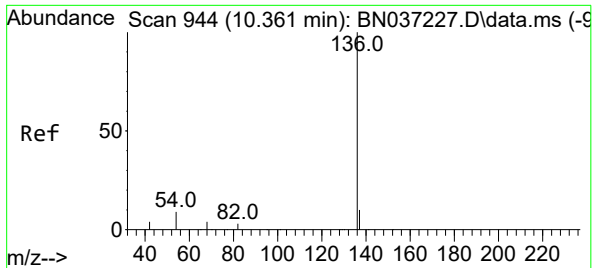


#6  
bis(2-Chloroethyl)ether  
Concen: 0.436 ng  
RT: 7.012 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 87.4  | 75.2  | 112.8 |
| 95      | 31.4  | 28.3  | 42.5  |



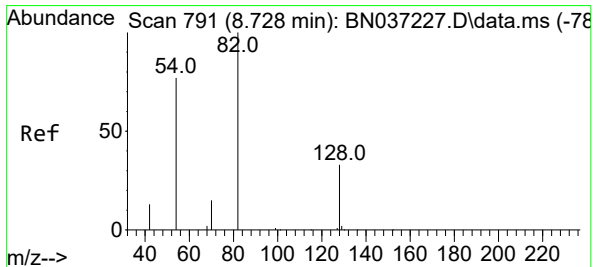
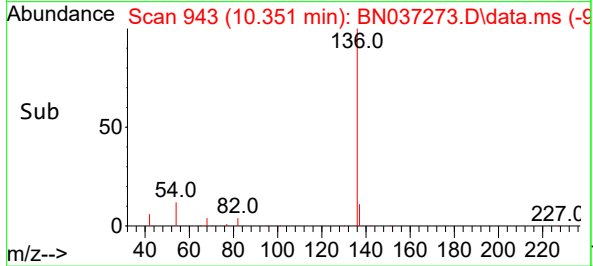
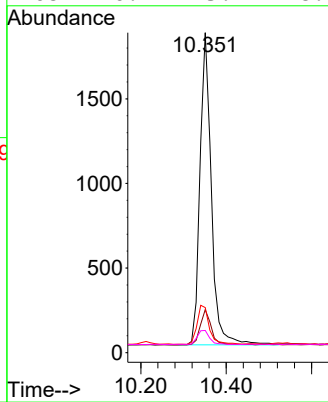
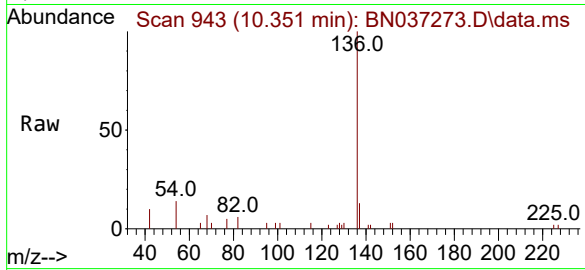




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 944  
Delta R.T. -0.011 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

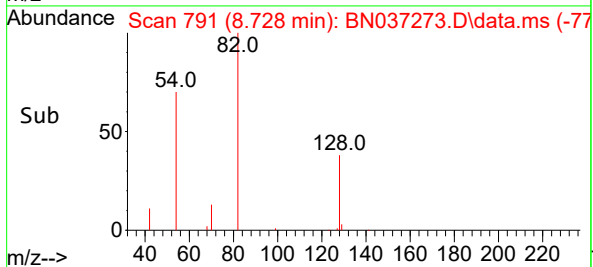
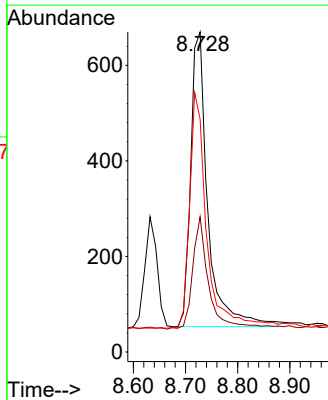
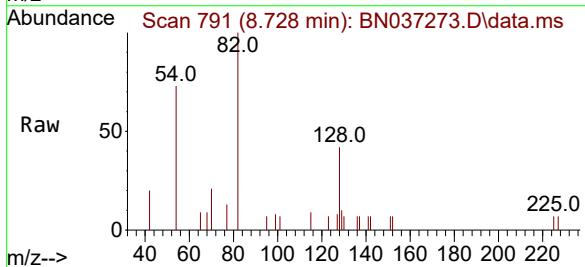
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

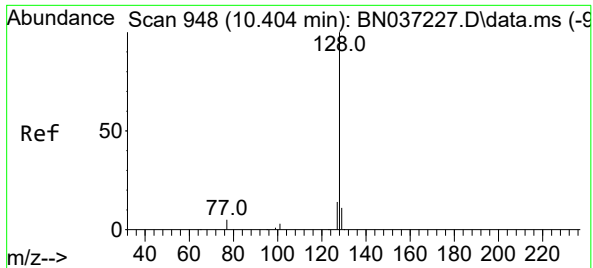
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 3410  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 13.4  | 10.6  | 15.8  |
| 54       | 14.1  | 9.2   | 13.8  |
| 68       | 6.9   | 5.4   | 8.0   |



#8  
Nitrobenzene-d5  
Concen: 0.420 ng  
RT: 8.728 min Scan# 791  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1416  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 42.2  | 31.2  | 46.8  |
| 54       | 72.7  | 63.3  | 94.9  |

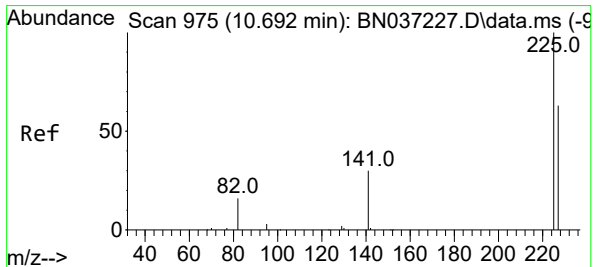
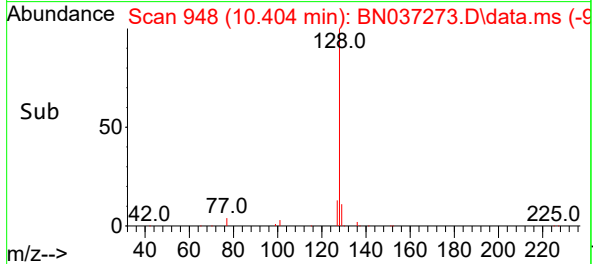
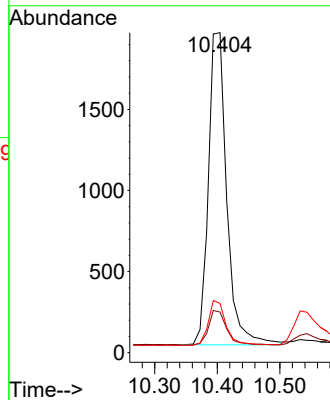
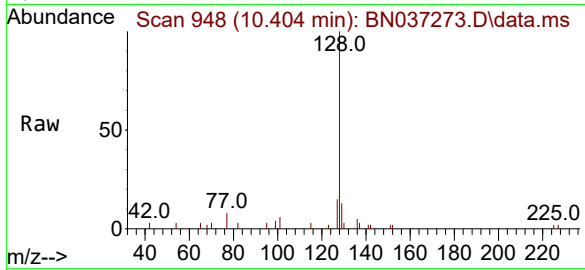




#9  
Naphthalene  
Concen: 0.397 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

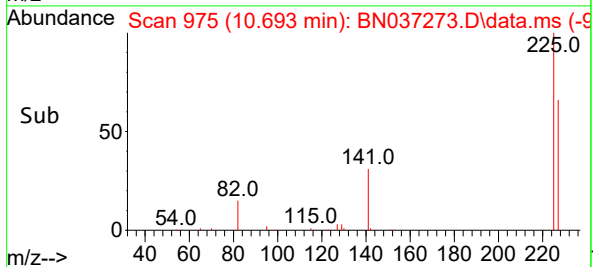
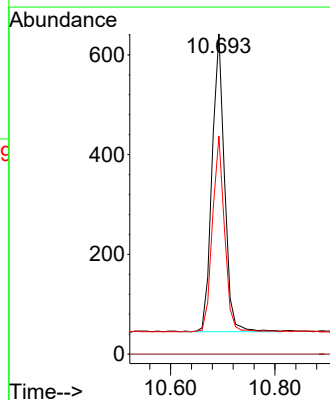
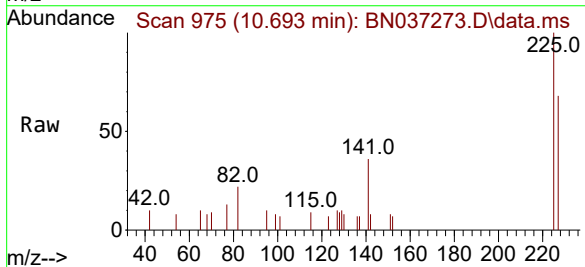
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

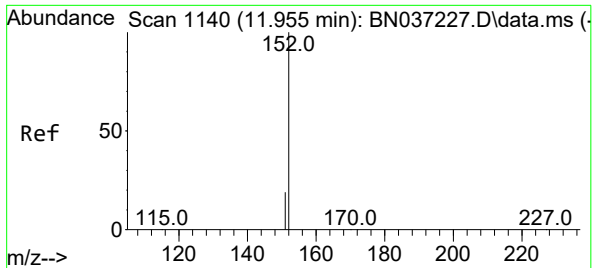
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 3924  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 12.7  | 10.7  | 16.1  |
| 127      | 15.4  | 12.6  | 19.0  |



#10  
Hexachlorobutadiene  
Concen: 0.409 ng  
RT: 10.693 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 982   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.6  | 49.2  | 73.8  |

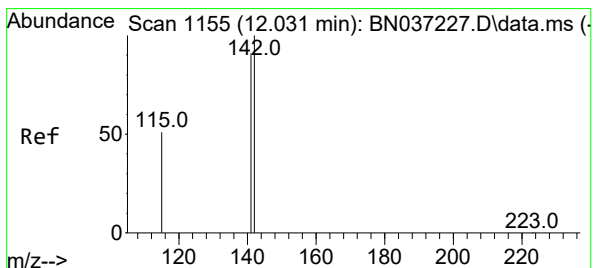
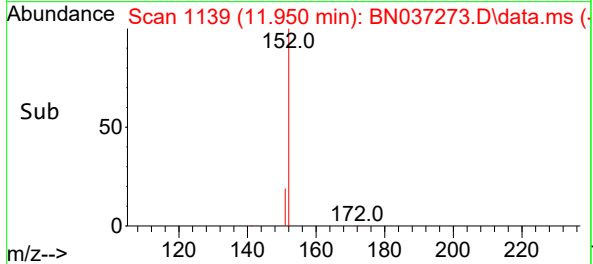
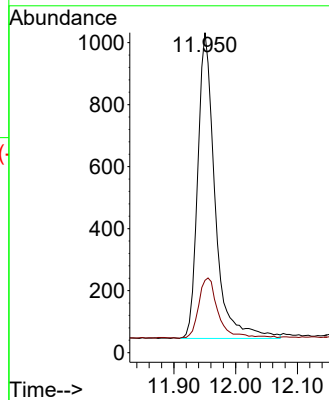
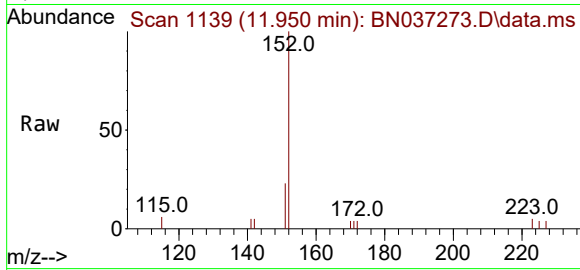




#11  
2-Methylnaphthalene-d10  
Concen: 0.419 ng  
RT: 11.950 min Scan# 1139  
Delta R.T. -0.005 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

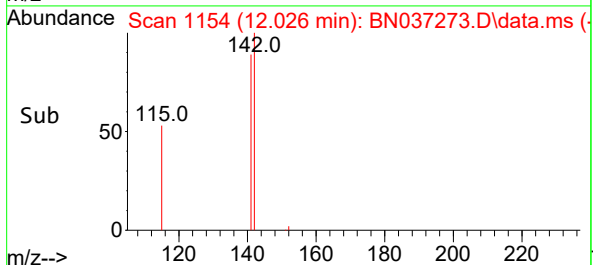
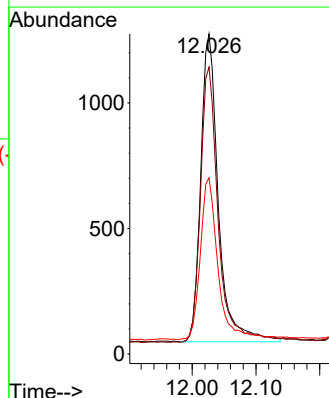
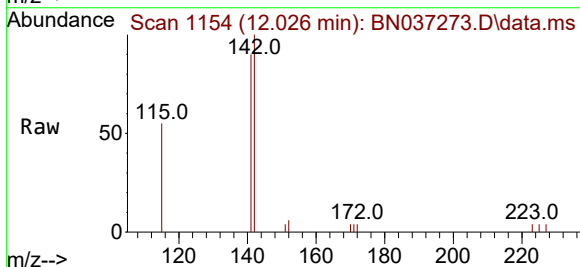
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

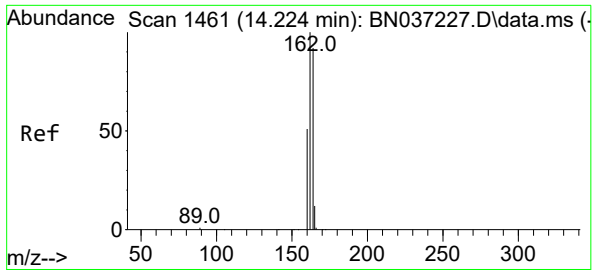
Tgt Ion:152 Resp: 1918  
Ion Ratio Lower Upper  
152 100  
151 21.6 17.9 26.9



#12  
2-Methylnaphthalene  
Concen: 0.392 ng  
RT: 12.026 min Scan# 1154  
Delta R.T. -0.005 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

Tgt Ion:142 Resp: 2355  
Ion Ratio Lower Upper  
142 100  
141 89.6 73.0 109.6  
115 55.1 43.3 64.9

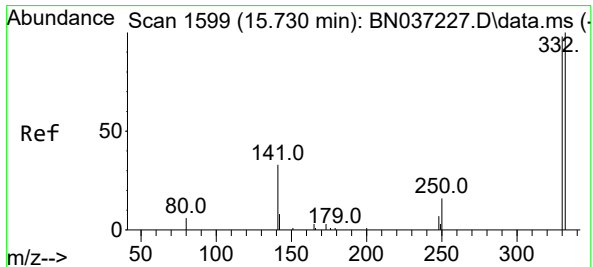
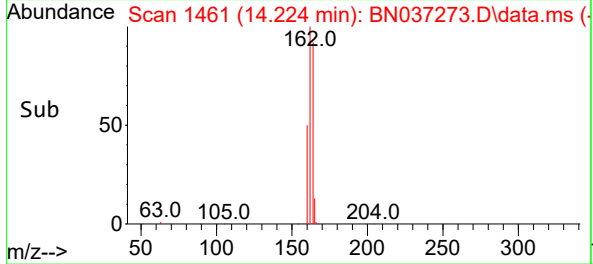
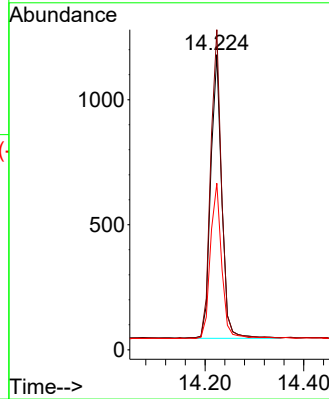
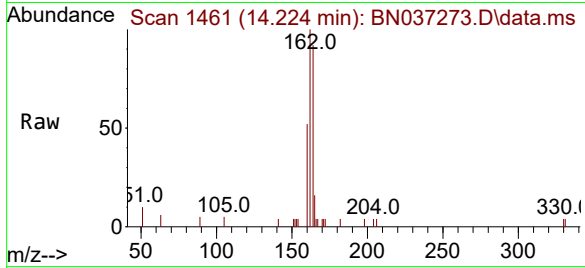




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.224 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

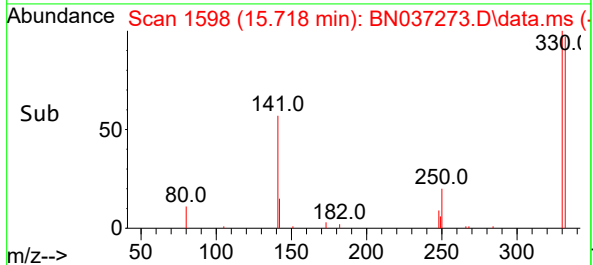
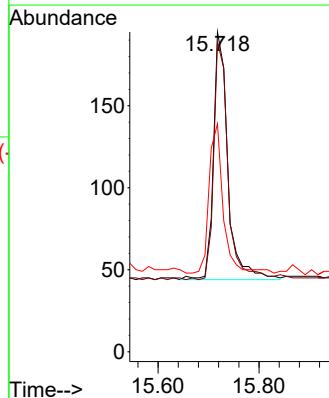
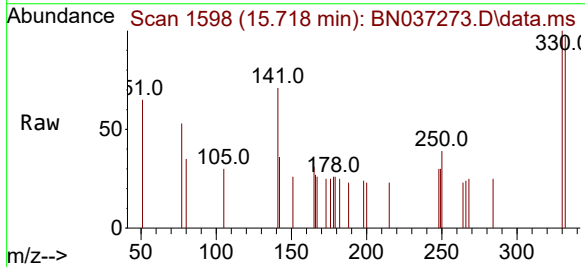
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

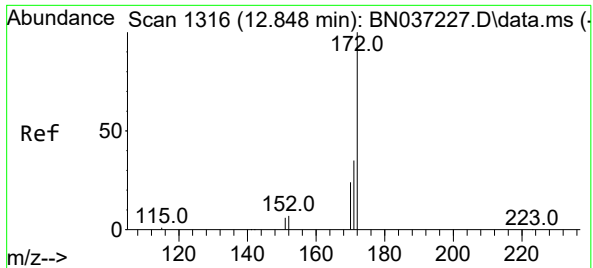
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 164   | Resp: | 1759  |
| Ion      | Ratio | Lower | Upper |
| 164      | 100   |       |       |
| 162      | 108.5 | 86.7  | 130.1 |
| 160      | 56.4  | 45.8  | 68.6  |



#14  
2,4,6-Tribromophenol  
Concen: 0.409 ng  
RT: 15.718 min Scan# 1598  
Delta R.T. -0.012 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 330   | Resp: | 299   |
| Ion      | Ratio | Lower | Upper |
| 330      | 100   |       |       |
| 332      | 95.0  | 74.9  | 112.3 |
| 141      | 58.9  | 45.1  | 67.7  |

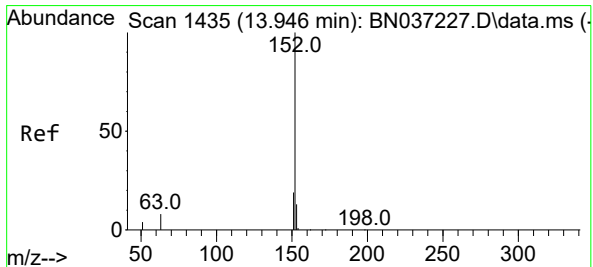
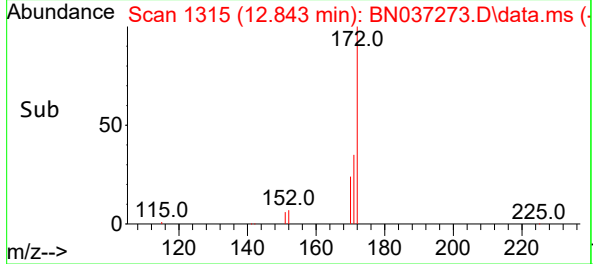
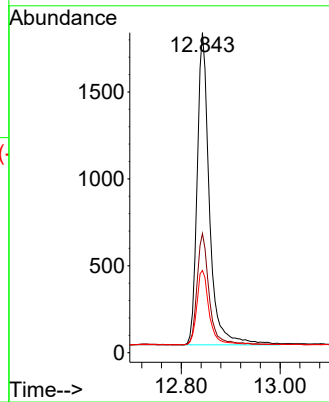
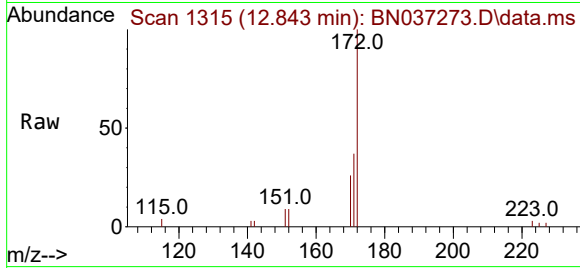




#15  
2-Fluorobiphenyl  
Concen: 0.420 ng  
RT: 12.843 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

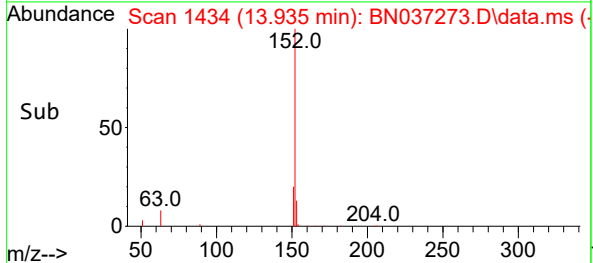
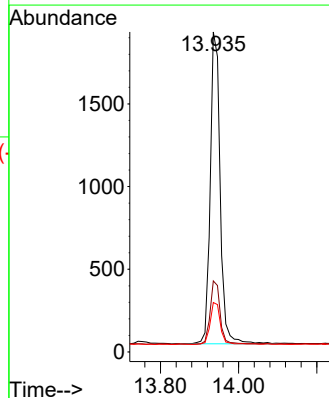
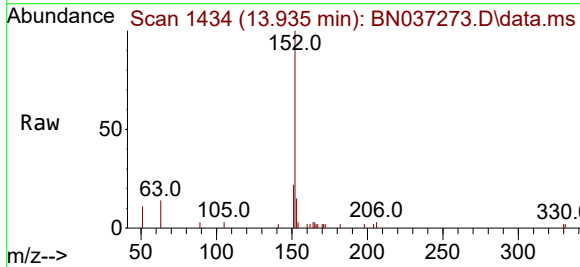
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

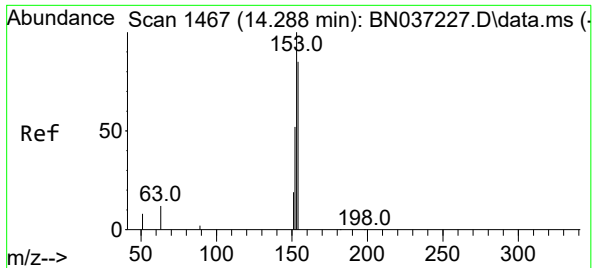
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 172   | Resp: | 3101  |
| Ion      | Ratio | Lower | Upper |
| 172      | 100   |       |       |
| 171      | 37.3  | 29.8  | 44.8  |
| 170      | 25.7  | 21.1  | 31.7  |



#16  
Acenaphthylene  
Concen: 0.386 ng  
RT: 13.935 min Scan# 1434  
Delta R.T. -0.011 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 152   | Resp: | 3330  |
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 20.1  | 15.7  | 23.5  |
| 153      | 13.8  | 10.7  | 16.1  |

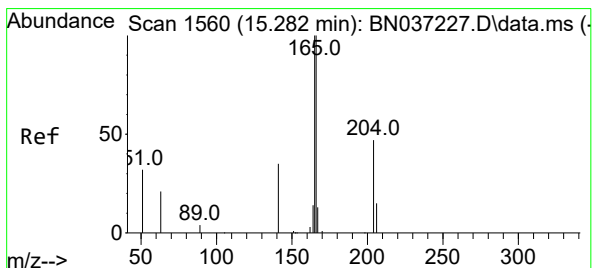
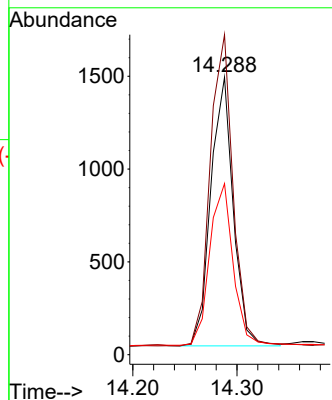
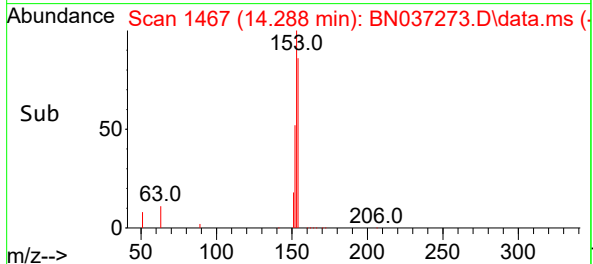
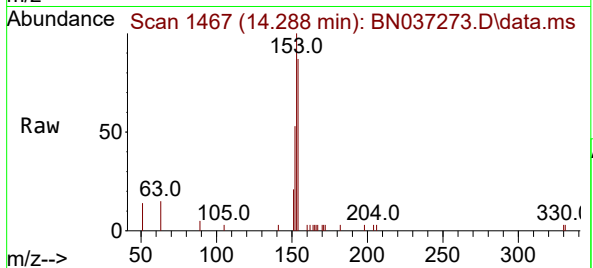




#17  
Acenaphthene  
Concen: 0.390 ng  
RT: 14.288 min Scan# 1467  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

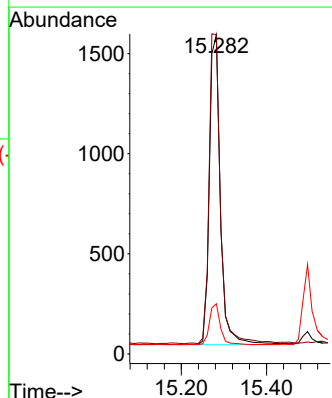
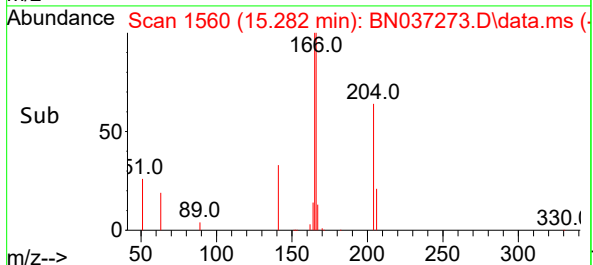
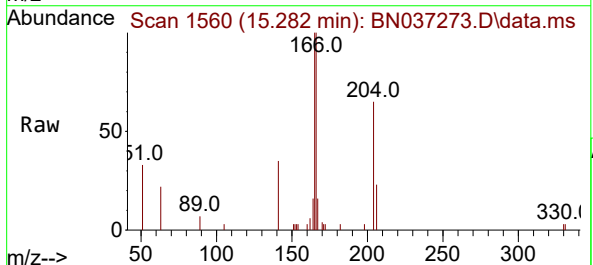
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

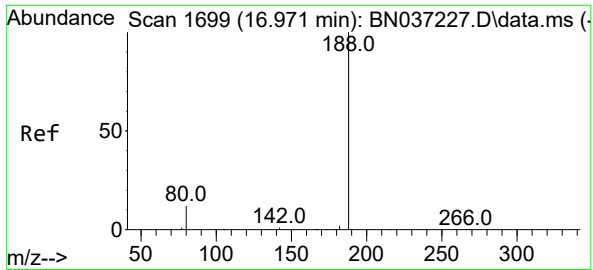
Tgt Ion:154 Resp: 2169  
Ion Ratio Lower Upper  
154 100  
153 118.9 94.6 141.8  
152 64.5 49.6 74.4



#18  
Fluorene  
Concen: 0.388 ng  
RT: 15.282 min Scan# 1560  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

Tgt Ion:166 Resp: 2772  
Ion Ratio Lower Upper  
166 100  
165 102.9 79.8 119.6  
167 13.1 10.8 16.2





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

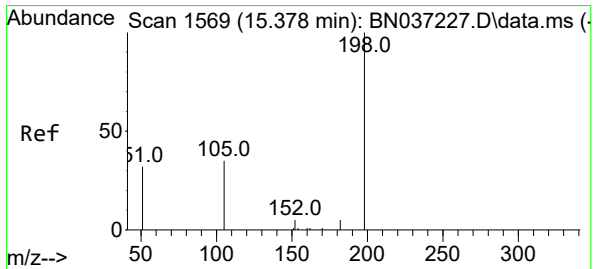
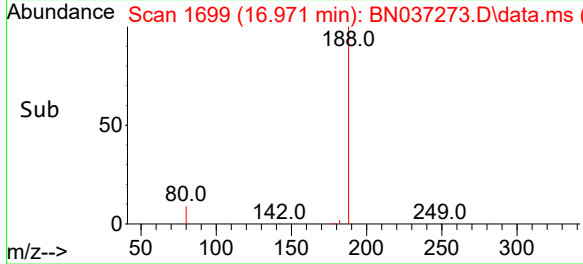
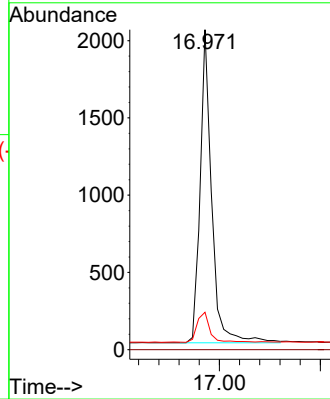
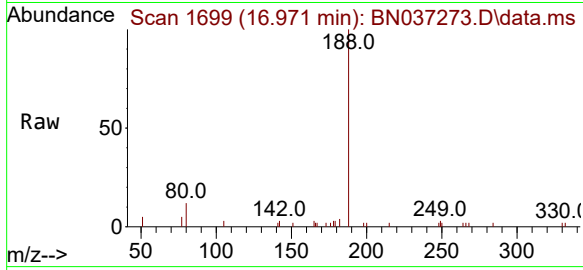
Tgt Ion:188 Resp: 3220

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 12.2 18.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.430 ng

RT: 15.368 min Scan# 1568

Delta R.T. -0.010 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

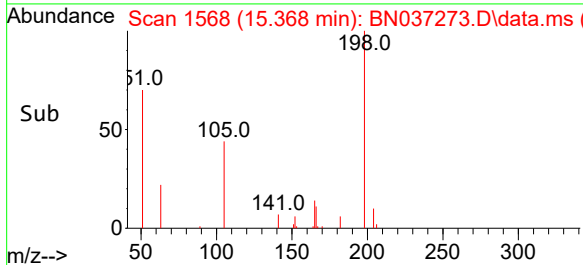
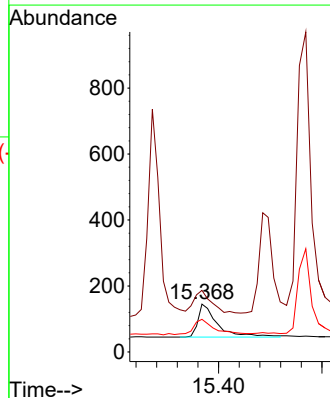
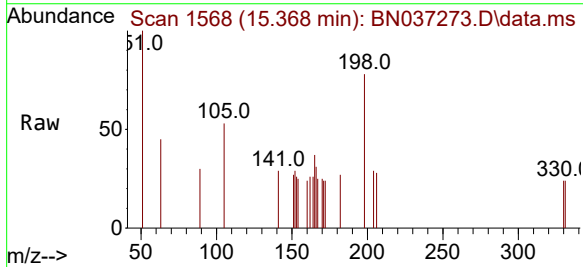
Tgt Ion:198 Resp: 265

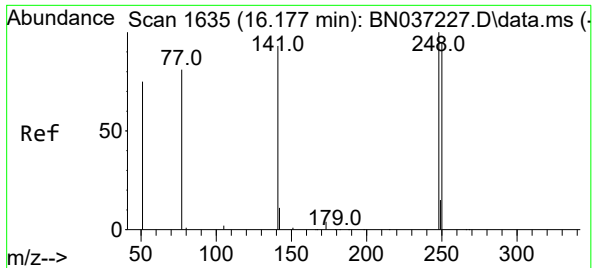
Ion Ratio Lower Upper

198 100

51 129.0 111.2 166.8

105 68.3 54.0 81.0

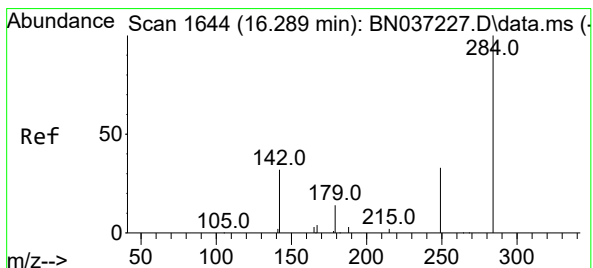
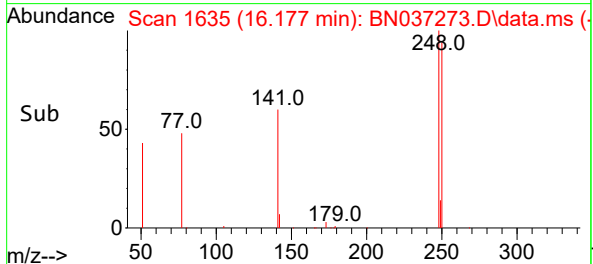
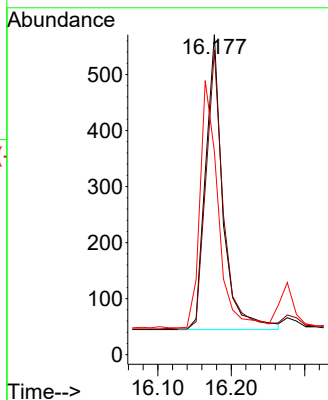
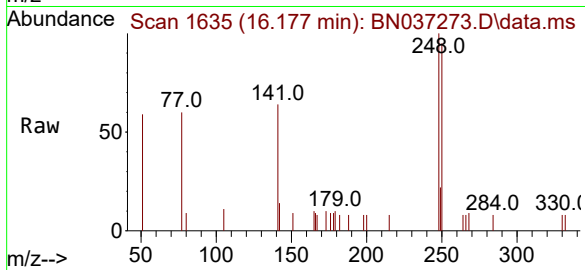




#21  
4-Bromophenyl-phenylether  
Concen: 0.409 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

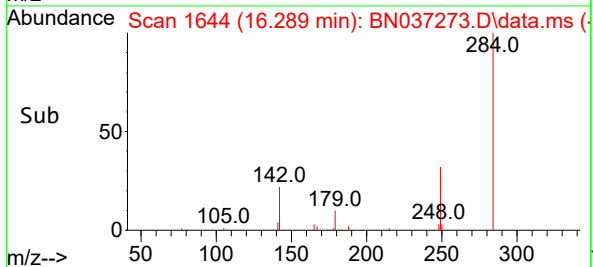
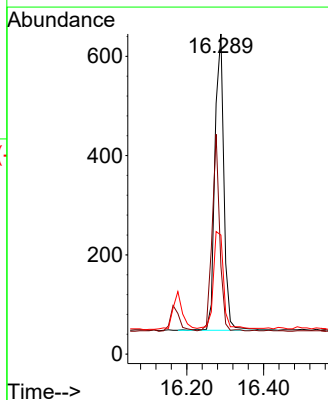
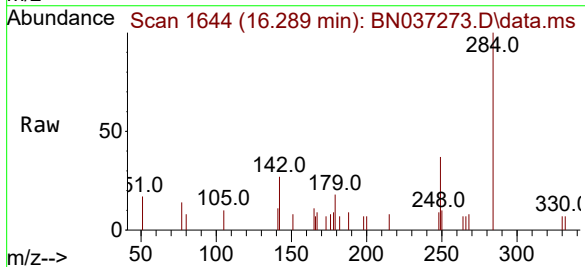
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

Tgt Ion:248 Resp: 859  
Ion Ratio Lower Upper  
248 100  
250 95.3 76.8 115.2  
141 63.6 75.6 113.4#

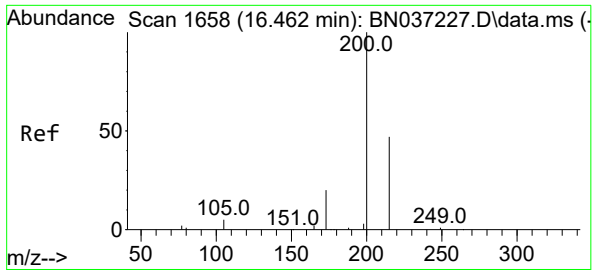


#22  
Hexachlorobenzene  
Concen: 0.395 ng  
RT: 16.289 min Scan# 1644  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

Tgt Ion:284 Resp: 961  
Ion Ratio Lower Upper  
284 100  
142 56.6 43.8 65.6  
249 36.3 28.4 42.6



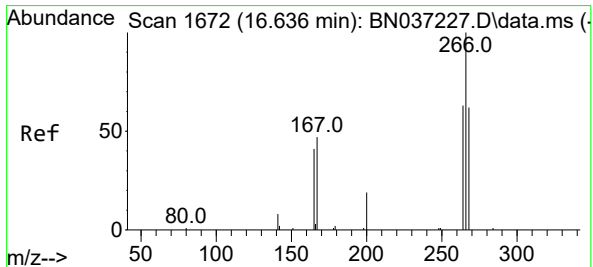
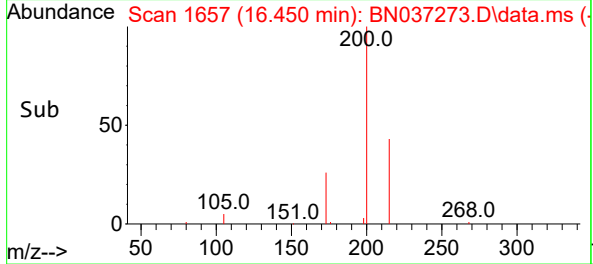
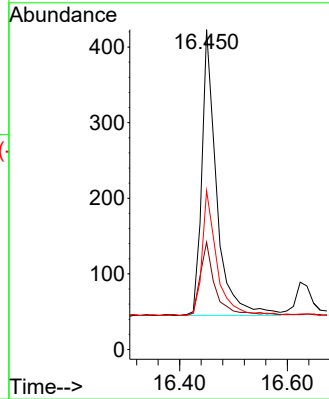
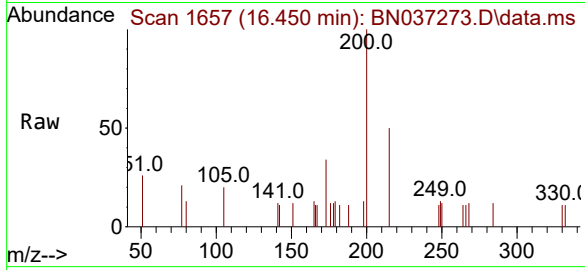




#23  
Atrazine  
Concen: 0.384 ng  
RT: 16.450 min Scan# 1657  
Delta R.T. -0.012 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

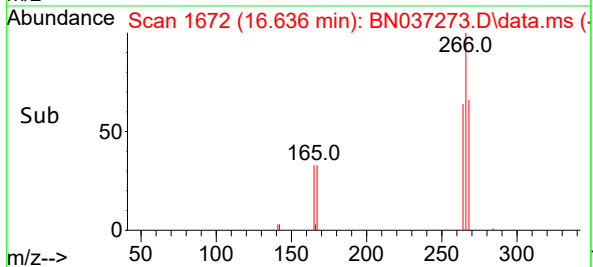
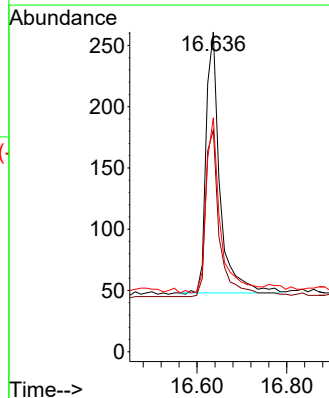
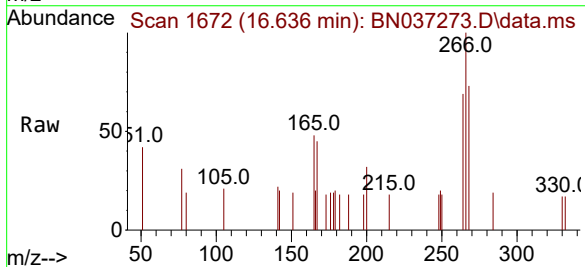
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

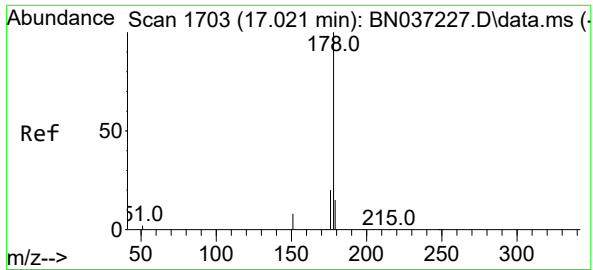
Tgt Ion:200 Resp: 719  
Ion Ratio Lower Upper  
200 100  
173 33.6 25.1 37.7  
215 49.6 43.7 65.5



#24  
Pentachlorophenol  
Concen: 0.382 ng  
RT: 16.636 min Scan# 1672  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

Tgt Ion:266 Resp: 455  
Ion Ratio Lower Upper  
266 100  
264 65.1 49.2 73.8  
268 68.4 53.4 80.2

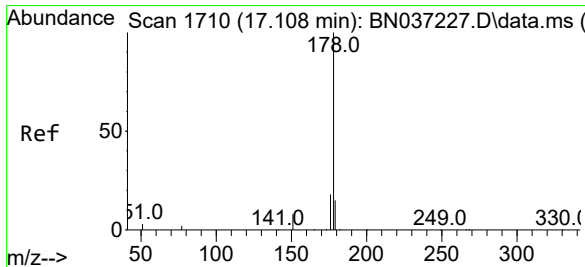
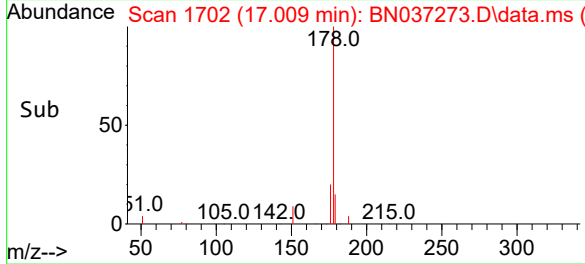
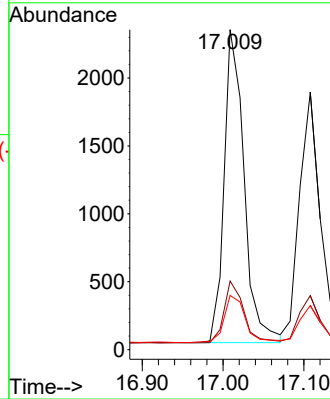
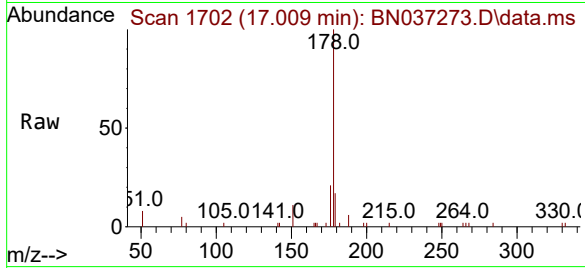




#25  
Phenanthrene  
Concen: 0.388 ng  
RT: 17.009 min Scan# 1710  
Delta R.T. -0.012 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

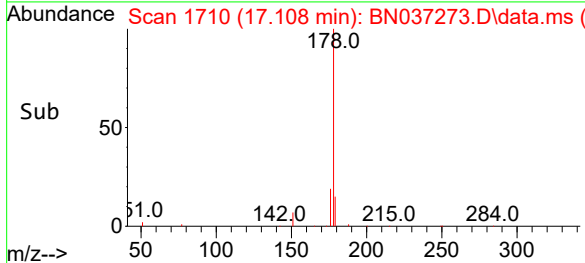
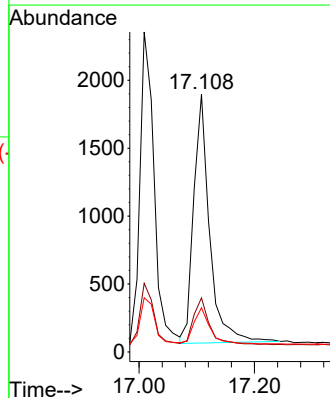
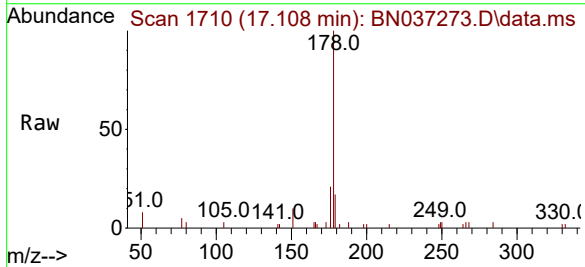
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

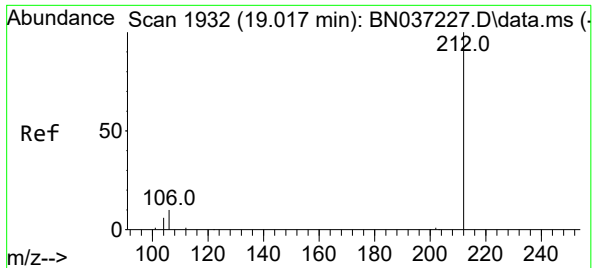
Tgt Ion:178 Resp: 3964  
Ion Ratio Lower Upper  
178 100  
176 19.4 16.3 24.5  
179 16.1 12.6 18.8



#26  
Anthracene  
Concen: 0.377 ng  
RT: 17.108 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

Tgt Ion:178 Resp: 3522  
Ion Ratio Lower Upper  
178 100  
176 19.4 15.1 22.7  
179 15.6 12.4 18.6

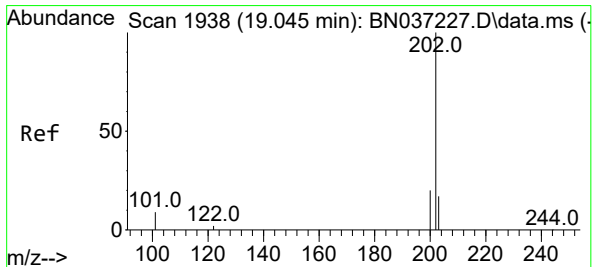
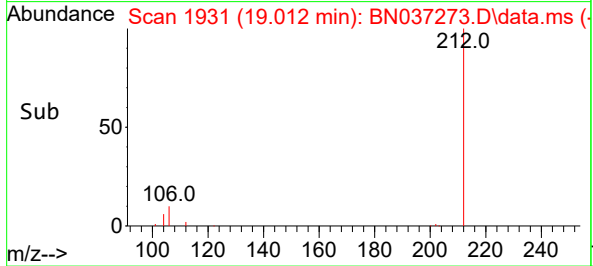
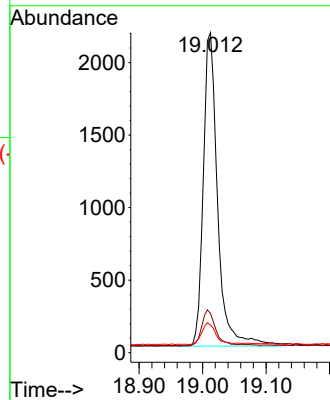
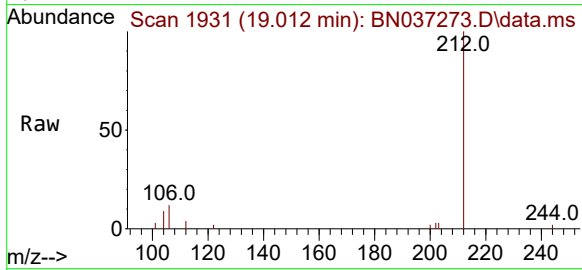




#27  
Fluoranthene-d10  
Concen: 0.403 ng  
RT: 19.012 min Scan# 1932  
Delta R.T. -0.004 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

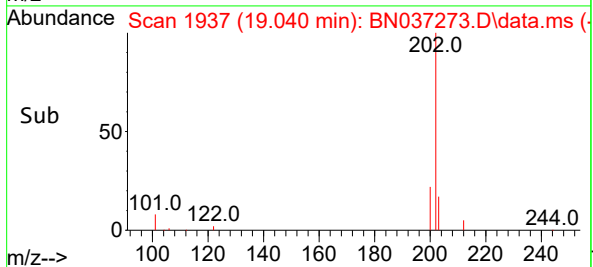
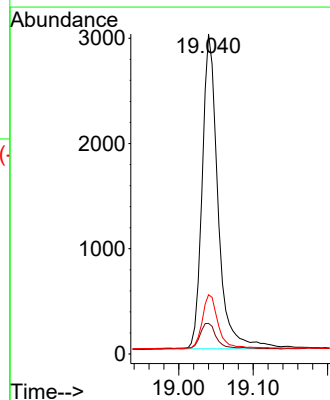
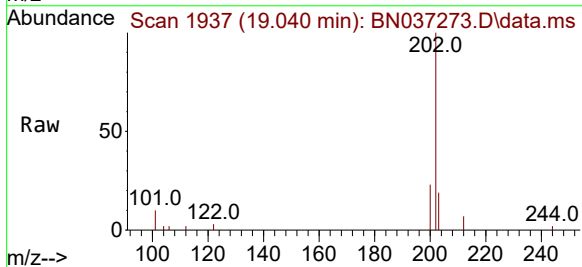
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

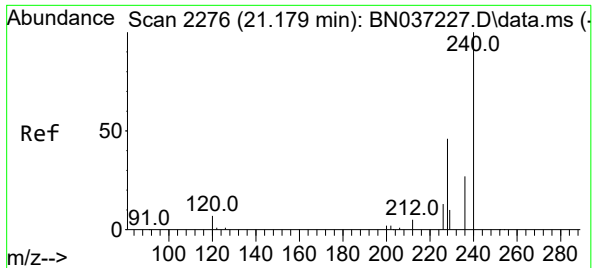
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 212     | 100   |       |       |
| 106     | 10.9  | 9.3   | 13.9  |
| 104     | 6.9   | 5.7   | 8.5   |



#28  
Fluoranthene  
Concen: 0.370 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.004 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 202     | 100   |       |       |
| 101     | 9.4   | 7.1   | 10.7  |
| 203     | 17.2  | 13.0  | 19.6  |





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

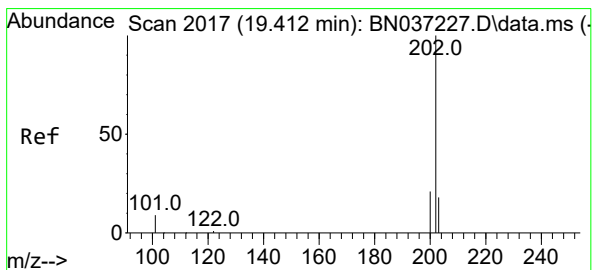
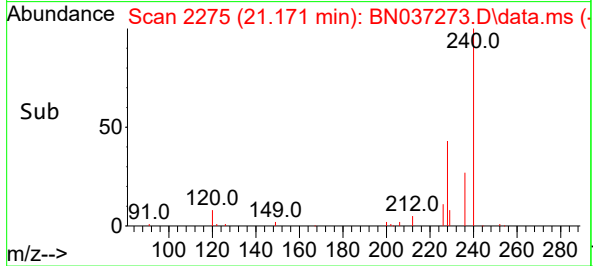
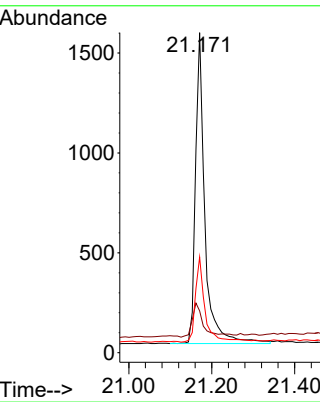
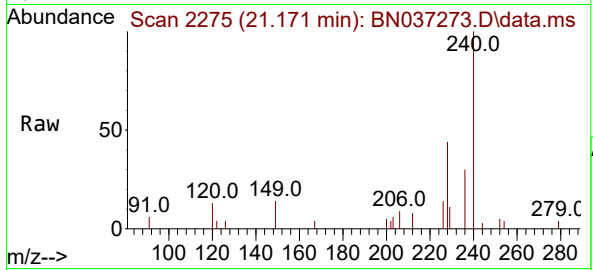
Tgt Ion:240 Resp: 2454

Ion Ratio Lower Upper

240 100

120 13.0 11.3 16.9

236 29.9 24.4 36.6



#30

Pyrene

Concen: 0.393 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.004 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

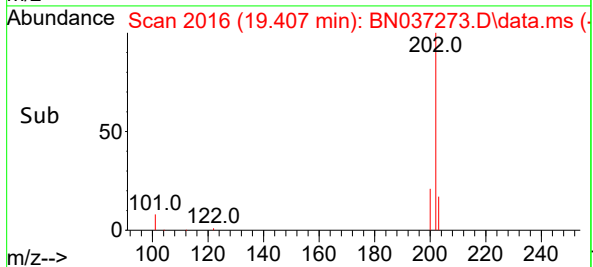
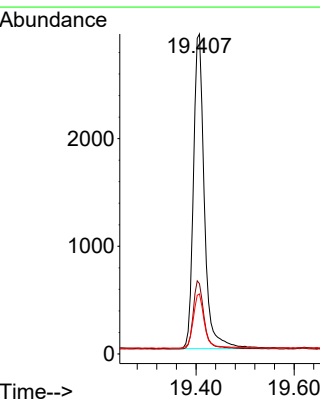
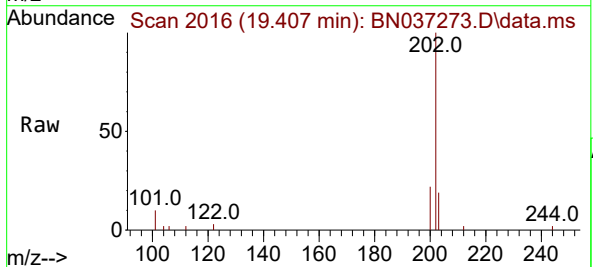
Tgt Ion:202 Resp: 4538

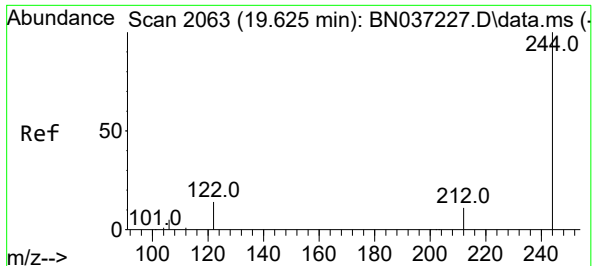
Ion Ratio Lower Upper

202 100

200 21.4 17.2 25.8

203 17.9 14.3 21.5

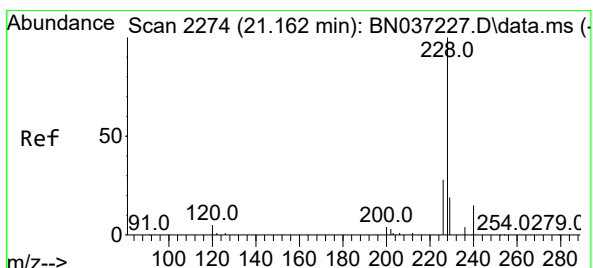
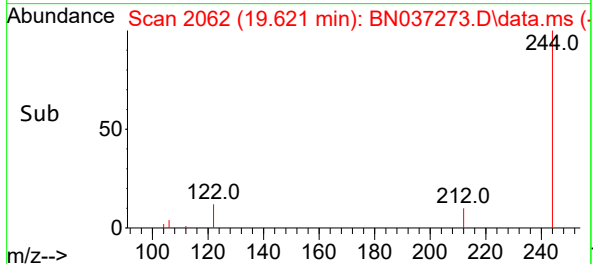
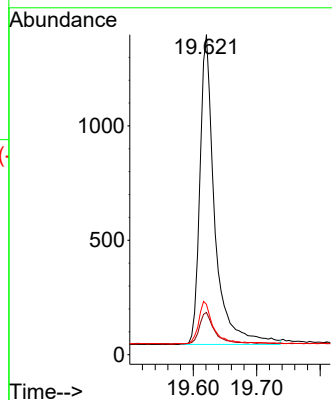
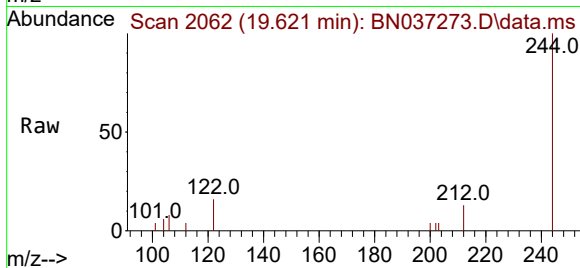




#31  
 Terphenyl-d14  
 Concen: 0.398 ng  
 RT: 19.621 min Scan# 2062  
 Delta R.T. -0.004 min  
 Lab File: BN037273.D  
 Acq: 14 Jun 2025 22:31

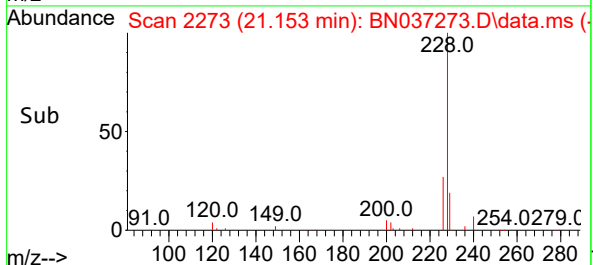
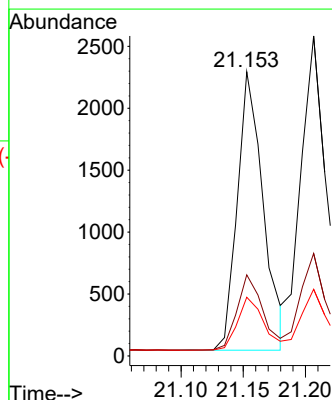
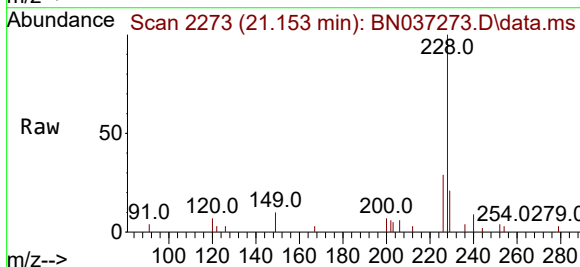
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4

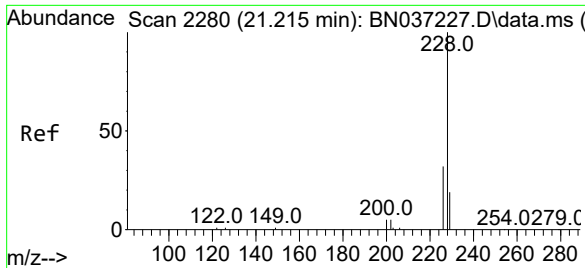
Tgt Ion:244 Resp: 2208  
 Ion Ratio Lower Upper  
 244 100  
 212 13.2 12.2 18.2  
 122 15.7 14.3 21.5



#32  
 Benzo(a)anthracene  
 Concen: 0.393 ng  
 RT: 21.153 min Scan# 2273  
 Delta R.T. -0.009 min  
 Lab File: BN037273.D  
 Acq: 14 Jun 2025 22:31

Tgt Ion:228 Resp: 3255  
 Ion Ratio Lower Upper  
 228 100  
 226 28.6 23.8 35.8  
 229 20.7 17.0 25.4





#33

Chrysene

Concen: 0.403 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

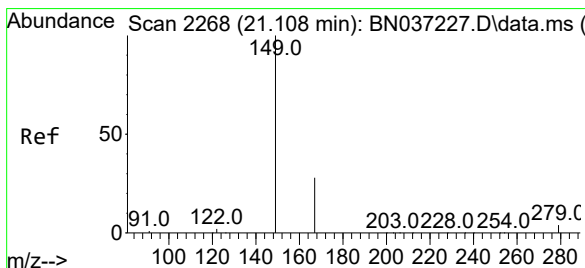
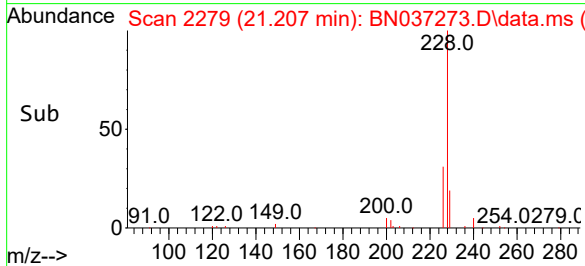
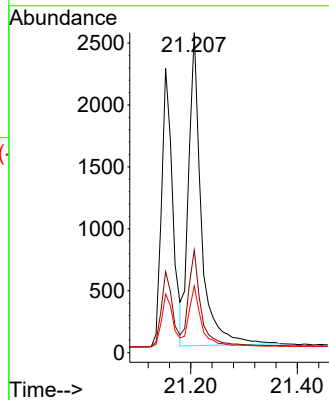
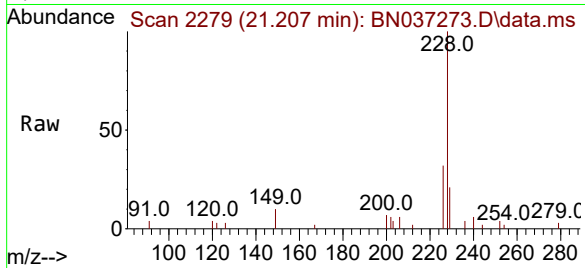
Tgt Ion:228 Resp: 4162

Ion Ratio Lower Upper

228 100

226 32.0 25.8 38.6

229 20.8 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.376 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

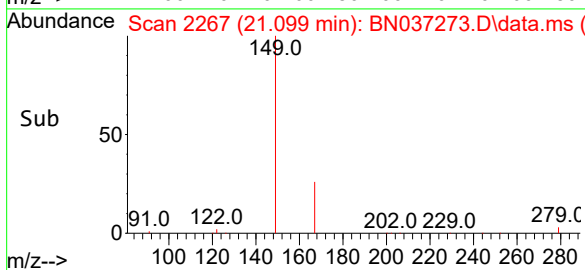
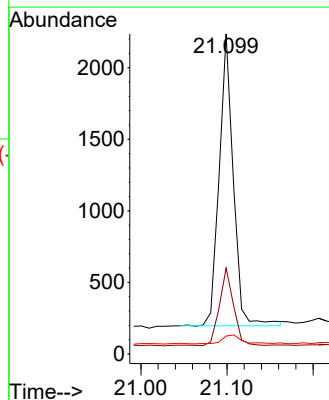
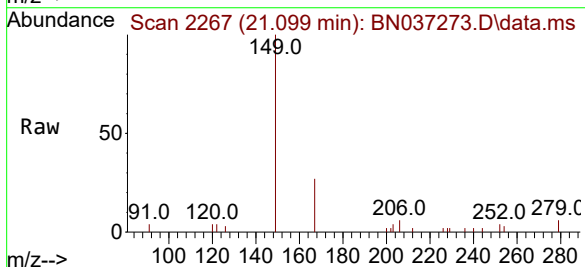
Tgt Ion:149 Resp: 2318

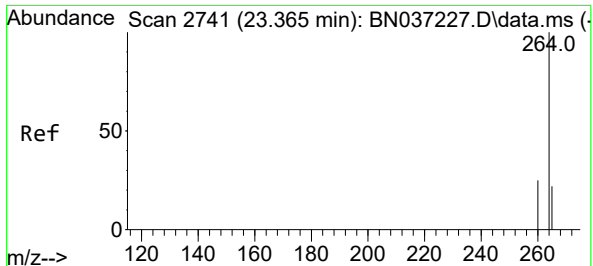
Ion Ratio Lower Upper

149 100

167 26.0 21.3 31.9

279 4.1 3.3 4.9

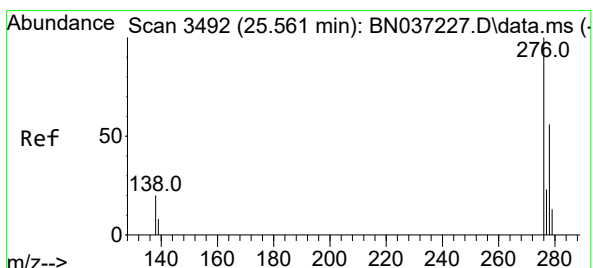
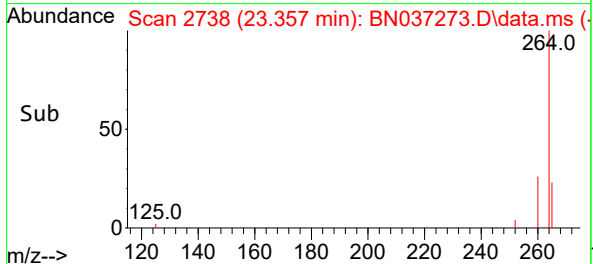
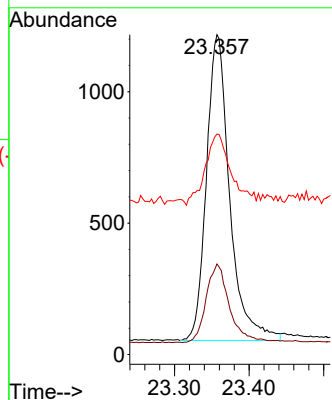
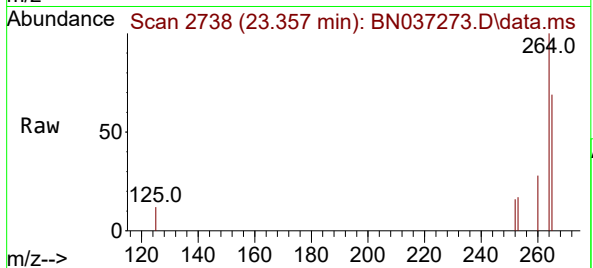




#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.357 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

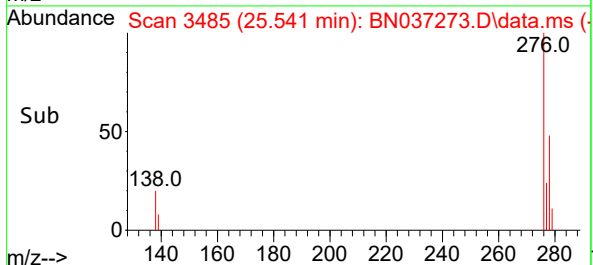
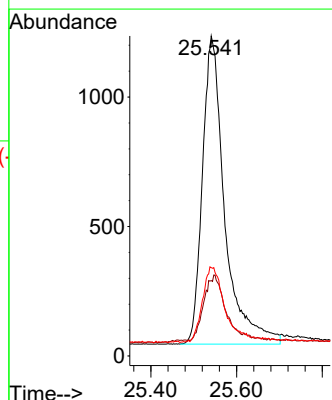
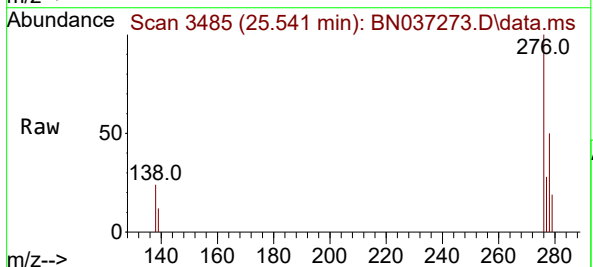
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4

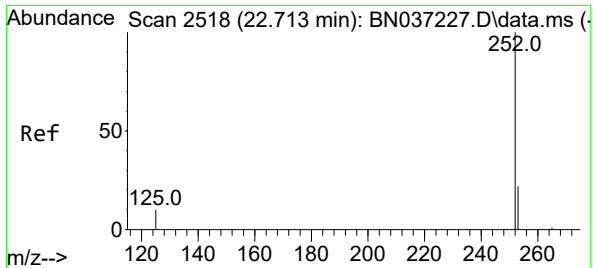
Tgt Ion:264 Resp: 2514  
Ion Ratio Lower Upper  
264 100  
260 28.3 22.8 34.2  
265 68.9 66.4 99.6



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.423 ng  
RT: 25.541 min Scan# 3485  
Delta R.T. -0.020 min  
Lab File: BN037273.D  
Acq: 14 Jun 2025 22:31

Tgt Ion:276 Resp: 4291  
Ion Ratio Lower Upper  
276 100  
138 20.1 16.8 25.2  
277 24.5 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.387 ng

RT: 22.705 min Scan# 2515

Delta R.T. -0.009 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

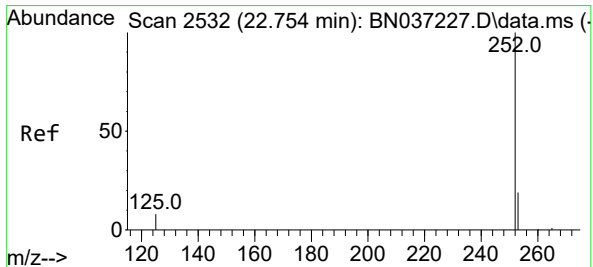
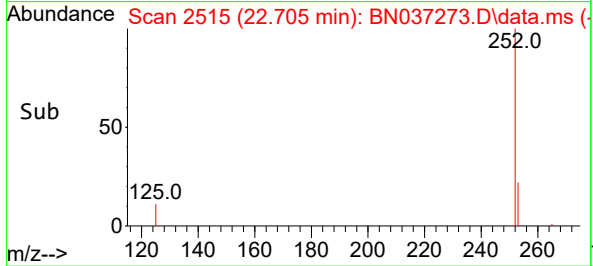
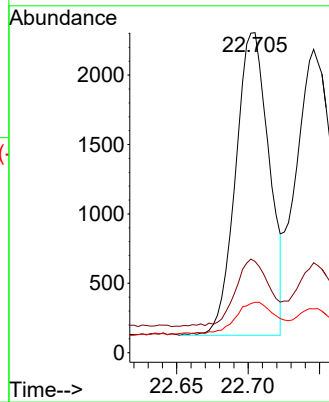
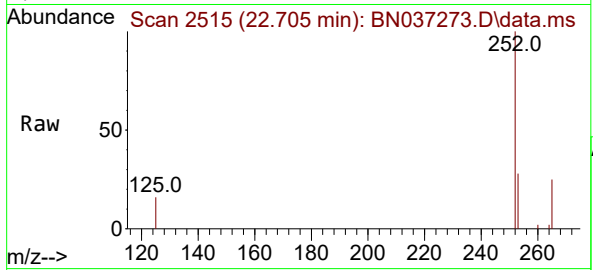
Tgt Ion:252 Resp: 3555

Ion Ratio Lower Upper

252 100

253 28.5 24.9 37.3

125 15.7 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.375 ng

RT: 22.746 min Scan# 2529

Delta R.T. -0.009 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

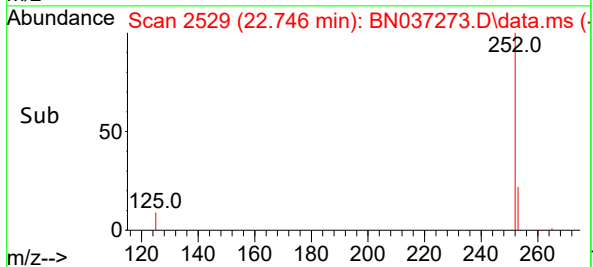
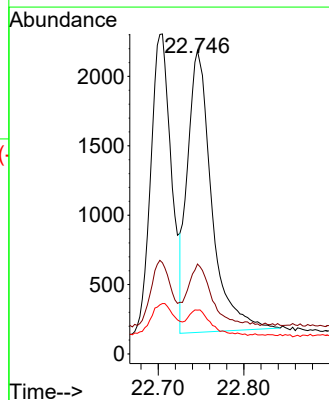
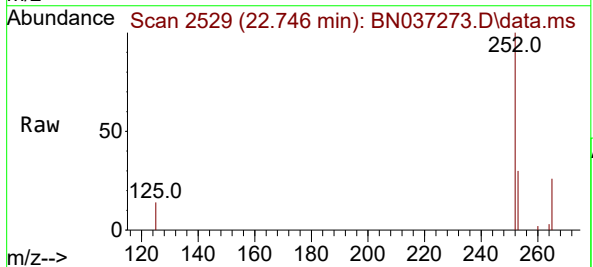
Tgt Ion:252 Resp: 3981

Ion Ratio Lower Upper

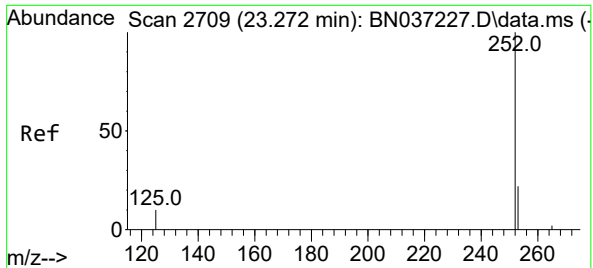
252 100

253 29.6 24.6 37.0

125 14.5 13.4 20.2







#39

Benzo(a)pyrene

Concen: 0.397 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

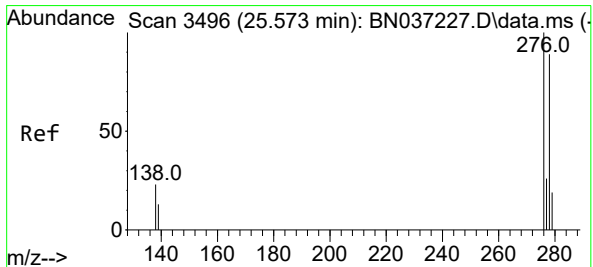
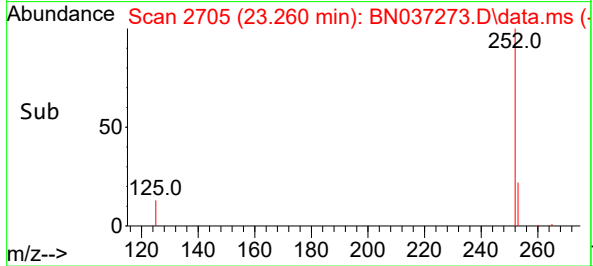
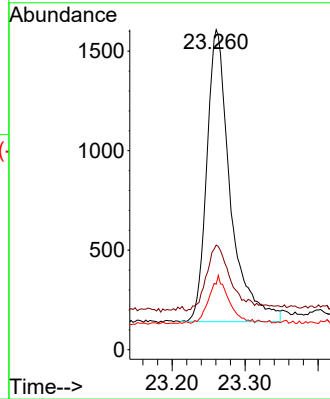
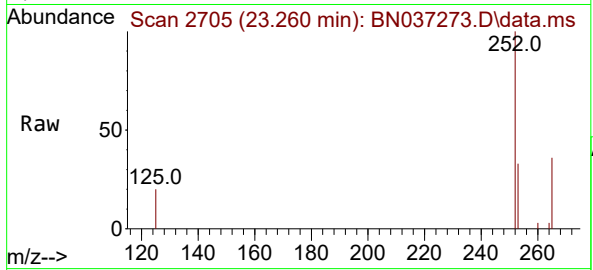
Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 3280      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 32.7  | 29.4 44.2 |
| 125         | 20.5  | 16.2 24.2 |



#40

Dibenzo(a,h)anthracene

Concen: 0.412 ng

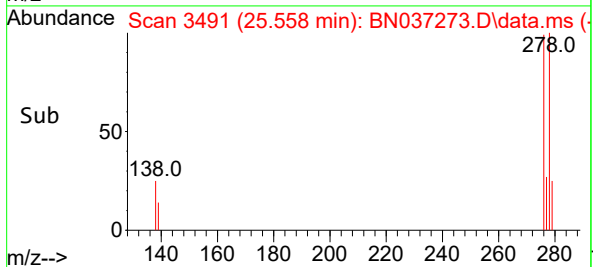
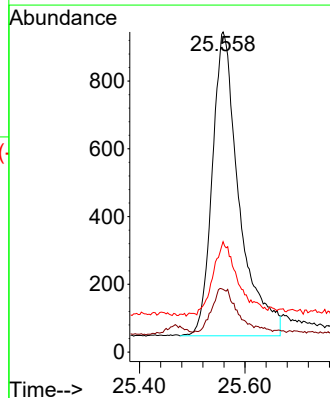
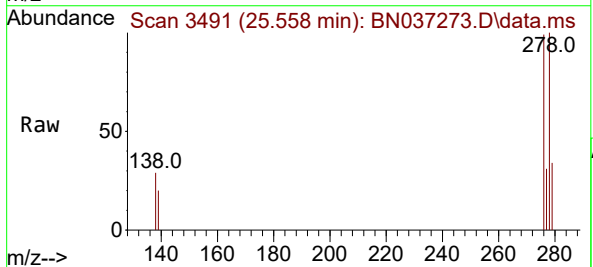
RT: 25.558 min Scan# 3491

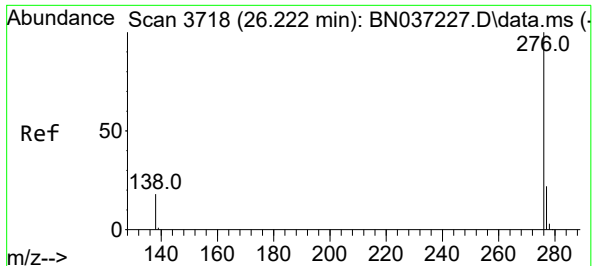
Delta R.T. -0.014 min

Lab File: BN037273.D

Acq: 14 Jun 2025 22:31

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 3174      |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 19.6  | 17.8 26.6 |
| 279         | 34.5  | 31.3 46.9 |





#41

Benzo(g,h,i)perylene

Concen: 0.406 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037273.D

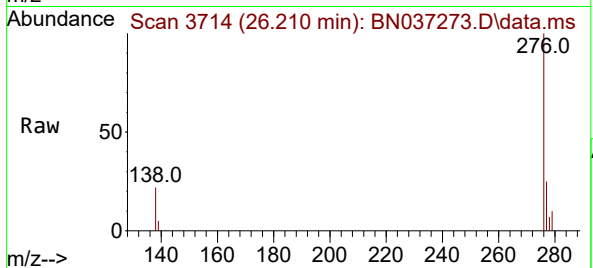
Acq: 14 Jun 2025 22:31

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4



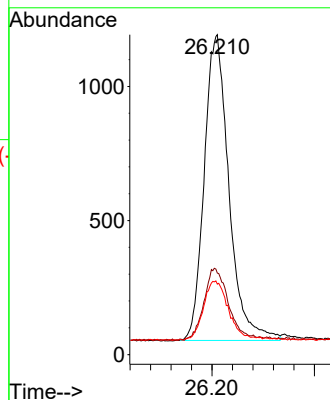
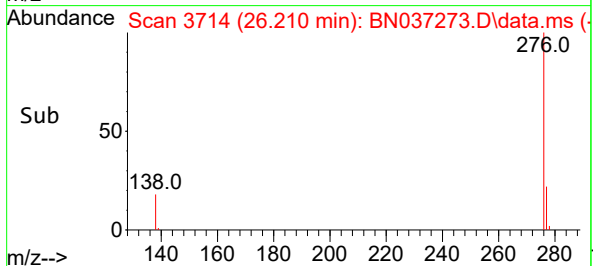
Tgt Ion:276 Resp: 3816

Ion Ratio Lower Upper

276 100

277 25.5 22.0 33.0

138 22.0 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037273.D  
Acq On : 14 Jun 2025 22:31  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 52 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Jun 16 02:45:45 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 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  | 108   | 0.00     |
| 2       | 1,4-Dioxane                | 0.549 | 0.499 | 9.1  | 103   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.250 | 1.342 | -7.4 | 113   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.982 | 0.959 | 2.3  | 110   | 0.00     |
| 5 S     | Phenol-d6                  | 1.035 | 1.017 | 1.7  | 114   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.927 | 1.011 | -9.1 | 125   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0  | 106   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.395 | 0.415 | -5.1 | 115   | 0.00     |
| 9       | Naphthalene                | 1.158 | 1.151 | 0.6  | 108   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.282 | 0.288 | -2.1 | 101   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.537 | 0.562 | -4.7 | 107   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.704 | 0.691 | 1.8  | 104   | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0  | 101   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.166 | 0.170 | -2.4 | 100   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.681 | 1.763 | -4.9 | 105   | 0.00     |
| 16      | Acenaphthylene             | 1.960 | 1.893 | 3.4  | 102   | -0.01    |
| 17      | Acenaphthene               | 1.265 | 1.233 | 2.5  | 101   | 0.00     |
| 18      | Fluorene                   | 1.625 | 1.576 | 3.0  | 100   | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 101   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.092 | 0.082 | 10.9 | 126   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.261 | 0.267 | -2.3 | 110   | 0.00     |
| 22      | Hexachlorobenzene          | 0.302 | 0.298 | 1.3  | 97    | 0.00     |
| 23      | Atrazine                   | 0.232 | 0.223 | 3.9  | 101   | -0.01    |
| 24      | Pentachlorophenol          | 0.148 | 0.141 | 4.7  | 115   | 0.00     |
| 25      | Phenanthrene               | 1.269 | 1.231 | 3.0  | 105   | -0.01    |
| 26      | Anthracene                 | 1.161 | 1.094 | 5.8  | 102   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.046 | 1.055 | -0.9 | 101   | 0.00     |
| 28      | Fluoranthene               | 1.485 | 1.374 | 7.5  | 98    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 107   | 0.00     |
| 30      | Pyrene                     | 1.881 | 1.849 | 1.7  | 101   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.904 | 0.900 | 0.4  | 102   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.351 | 1.326 | 1.9  | 116   | 0.00     |
| 33      | Chrysene                   | 1.683 | 1.696 | -0.8 | 108   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 1.006 | 0.945 | 6.1  | 99    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0  | 117   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.613 | 1.707 | -5.8 | 132   | -0.02    |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.414 | 3.3  | 120   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 1.689 | 1.584 | 6.2  | 114   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.316 | 1.305 | 0.8  | 124   | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 1.227 | 1.263 | -2.9 | 141   | -0.01    |
| 41      | Benzo(g,h,i)perylene       | 1.496 | 1.518 | -1.5 | 123   | -0.01    |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037273.D  
 Acq On : 14 Jun 2025 22:31  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 52 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 LabSampleId :  
 SSTDCCC0.4

Quant Time: Jun 16 02:45:45 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:43:34 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  | 108   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.364 | 9.0  | 103   | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.429 | -7.2 | 113   | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.390 | 2.5  | 110   | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.393 | 1.8  | 114   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.436 | -9.0 | 125   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0  | 106   | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.420 | -5.0 | 115   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.397 | 0.8  | 108   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.409 | -2.2 | 101   | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.419 | -4.7 | 107   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.392 | 2.0  | 104   | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0  | 101   | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.409 | -2.2 | 100   | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.420 | -5.0 | 105   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.386 | 3.5  | 102   | -0.01    |
| 17      | Acenaphthene               | 0.400  | 0.390 | 2.5  | 101   | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.388 | 3.0  | 100   | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0  | 101   | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.430 | -7.5 | 126   | -0.01    |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.409 | -2.2 | 110   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.395 | 1.3  | 97    | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.384 | 4.0  | 101   | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.382 | 4.5  | 115   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.388 | 3.0  | 105   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.377 | 5.8  | 102   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.403 | -0.8 | 101   | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.370 | 7.5  | 98    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0  | 107   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.393 | 1.8  | 101   | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.398 | 0.5  | 102   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.393 | 1.8  | 116   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.403 | -0.8 | 108   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.376 | 6.0  | 99    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0  | 117   | 0.00     |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.423 | -5.7 | 132   | -0.02    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.387 | 3.3  | 120   | 0.00     |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.375 | 6.3  | 114   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.397 | 0.8  | 124   | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.412 | -3.0 | 141   | -0.01    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.406 | -1.5 | 123   | -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: CHEMTECH Contract: TETR06

Lab Code: CHEM Case No.: Q2316 SAS No.: Q2316 SDG No.: Q2316

Instrument ID: BNA\_N Calibration Date/Time: 06/15/2025 03:54

Lab File ID: BN037282.D Init. Calib. Date(s): 06/13/2025 06/13/2025

EPA Sample No.: SSTDCCC0.4EC Init. Calib. Time(s): 13:33 17:11

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

| COMPOUND                | RRF   | RRF0.4 | MIN<br>RRF | %D    | MAX%D |
|-------------------------|-------|--------|------------|-------|-------|
| 2-Methylnaphthalene-d10 | 0.537 | 0.562  |            | 4.7   | 50.0  |
| Fluoranthene-d10        | 1.047 | 1.054  |            | 0.8   | 50.0  |
| 2-Fluorophenol          | 0.982 | 0.915  |            | -6.8  | 50.0  |
| Phenol-d6               | 1.035 | 1.040  |            | 0.5   | 50.0  |
| Nitrobenzene-d5         | 0.395 | 0.420  |            | 6.3   | 50.0  |
| 2-Fluorobiphenyl        | 1.681 | 1.736  |            | 3.3   | 50.0  |
| 2,4,6-Tribromophenol    | 0.166 | 0.171  |            | 3.0   | 50.0  |
| Terphenyl-d14           | 0.904 | 0.949  |            | 5.0   | 50.0  |
| 1,4-Dioxane             | 0.549 | 0.485  |            | -11.7 | 50.0  |

All other compounds must meet a minimum RRF of 0.010.

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037282.D  
 Acq On : 15 Jun 2025 03:54  
 Operator : RC/JU  
 Sample : SSTDCCC0.4  
 Misc :  
 ALS Vial : 61 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDCCC0.4EC

Quant Time: Jun 16 02:47:53 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:43:34 2025  
 Response via : Initial Calibration

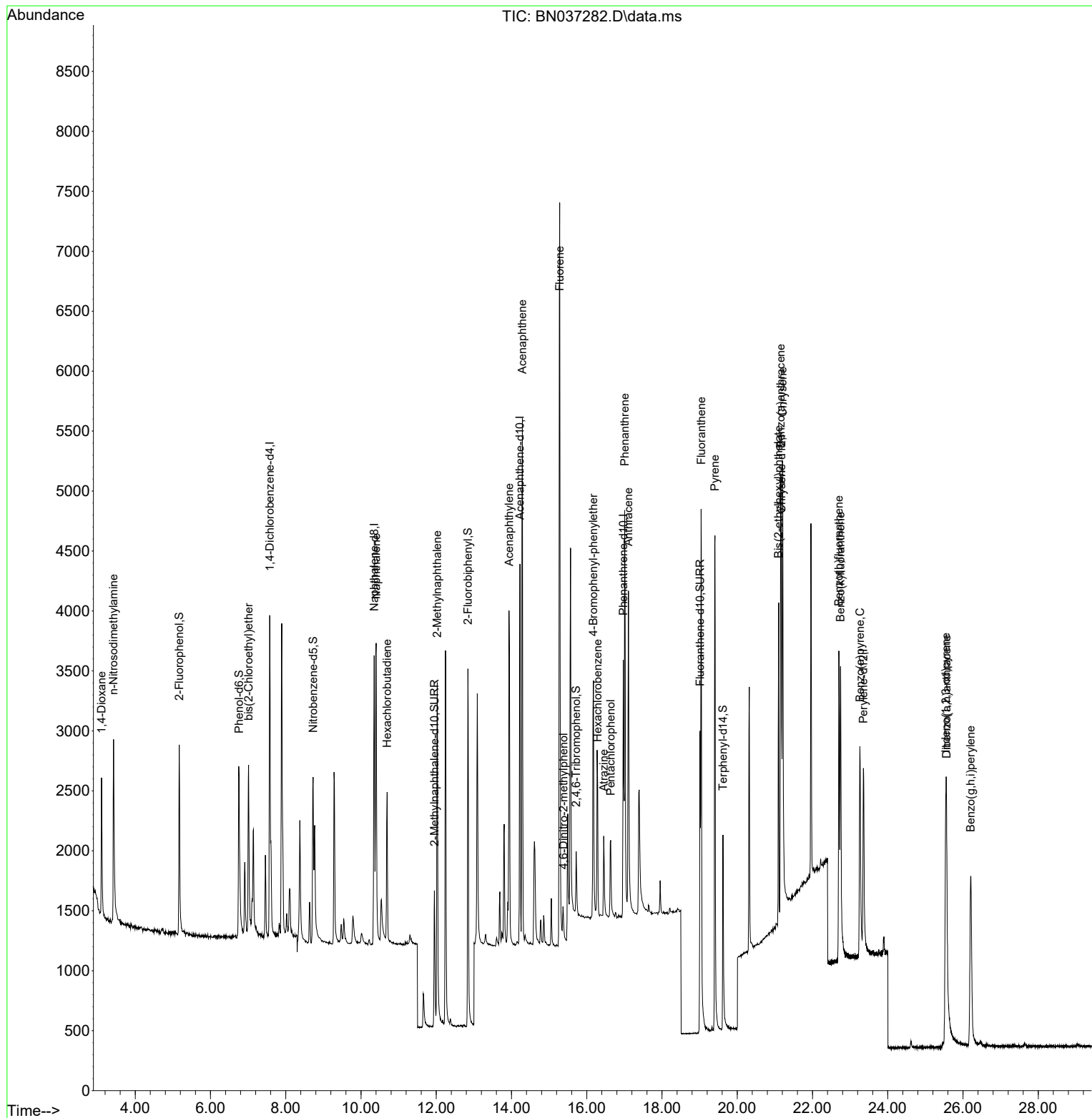
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min)  |
|-------------------------------|--------|------|----------|-------|-------|-----------|
| Internal Standards            |        |      |          |       |       |           |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1297     | 0.400 | ng    | 0.00      |
| 7) Naphthalene-d8             | 10.351 | 136  | 3173     | 0.400 | ng    | #-0.01    |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1710     | 0.400 | ng    | 0.00      |
| 19) Phenanthrene-d10          | 16.971 | 188  | 3109     | 0.400 | ng    | # 0.00    |
| 29) Chrysene-d12              | 21.171 | 240  | 2311     | 0.400 | ng    | 0.00      |
| 35) Perylene-d12              | 23.351 | 264  | 2261     | 0.400 | ng    | -0.01     |
| System Monitoring Compounds   |        |      |          |       |       |           |
| 4) 2-Fluorophenol             | 5.170  | 112  | 1187     | 0.373 | ng    | 0.00      |
| 5) Phenol-d6                  | 6.759  | 99   | 1349     | 0.402 | ng    | 0.00      |
| 8) Nitrobenzene-d5            | 8.728  | 82   | 1334     | 0.425 | ng    | 0.00      |
| 11) 2-Methylnaphthalene-d10   | 11.950 | 152  | 1783     | 0.419 | ng    | 0.00      |
| 14) 2,4,6-Tribromophenol      | 15.718 | 330  | 293      | 0.413 | ng    | -0.01     |
| 15) 2-Fluorobiphenyl          | 12.843 | 172  | 2968     | 0.413 | ng    | 0.00      |
| 27) Fluoranthene-d10          | 19.012 | 212  | 3277     | 0.403 | ng    | 0.00      |
| 31) Terphenyl-d14             | 19.621 | 244  | 2194     | 0.420 | ng    | 0.00      |
| Target Compounds              |        |      |          |       |       |           |
| 2) 1,4-Dioxane                | 3.104  | 88   | 629      | 0.353 | ng    | Qvalue 96 |
| 3) n-Nitrosodimethylamine     | 3.422  | 42   | 1632     | 0.403 | ng    | 100       |
| 6) bis(2-Chloroethyl)ether    | 7.012  | 93   | 1224     | 0.407 | ng    | 93        |
| 9) Naphthalene                | 10.404 | 128  | 3674     | 0.400 | ng    | 100       |
| 10) Hexachlorobutadiene       | 10.693 | 225  | 930      | 0.416 | ng    | # 95      |
| 12) 2-Methylnaphthalene       | 12.026 | 142  | 2248     | 0.402 | ng    | 99        |
| 16) Acenaphthylene            | 13.935 | 152  | 3158     | 0.377 | ng    | 98        |
| 17) Acenaphthene              | 14.288 | 154  | 2107     | 0.390 | ng    | 99        |
| 18) Fluorene                  | 15.282 | 166  | 2693     | 0.388 | ng    | 100       |
| 20) 4,6-Dinitro-2-methylph... | 15.378 | 198  | 282      | 0.462 | ng    | # 70      |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 834      | 0.412 | ng    | # 87      |
| 22) Hexachlorobenzene         | 16.289 | 284  | 930      | 0.396 | ng    | 97        |
| 23) Atrazine                  | 16.450 | 200  | 711      | 0.393 | ng    | 92        |
| 24) Pentachlorophenol         | 16.636 | 266  | 435      | 0.378 | ng    | 98        |
| 25) Phenanthrene              | 17.009 | 178  | 3779     | 0.383 | ng    | 99        |
| 26) Anthracene                | 17.108 | 178  | 3458     | 0.383 | ng    | 99        |
| 28) Fluoranthene              | 19.040 | 202  | 4402     | 0.381 | ng    | 99        |
| 30) Pyrene                    | 19.407 | 202  | 4393     | 0.404 | ng    | 100       |
| 32) Benzo(a)anthracene        | 21.153 | 228  | 3022     | 0.387 | ng    | 99        |
| 33) Chrysene                  | 21.206 | 228  | 3925     | 0.404 | ng    | 99        |
| 34) Bis(2-ethylhexyl)phtha... | 21.099 | 149  | 2319     | 0.399 | ng    | 99        |
| 36) Indeno(1,2,3-cd)pyrene    | 25.541 | 276  | 3478     | 0.381 | ng    | 99        |
| 37) Benzo(b)fluoranthene      | 22.702 | 252  | 3315     | 0.401 | ng    | 98        |
| 38) Benzo(k)fluoranthene      | 22.746 | 252  | 3572     | 0.374 | ng    | 96        |
| 39) Benzo(a)pyrene            | 23.260 | 252  | 2896     | 0.389 | ng    | 93        |
| 40) Dibenzo(a,h)anthracene    | 25.561 | 278  | 2756     | 0.397 | ng    | 95        |
| 41) Benzo(g,h,i)perylene      | 26.204 | 276  | 3285     | 0.389 | ng    | 98        |

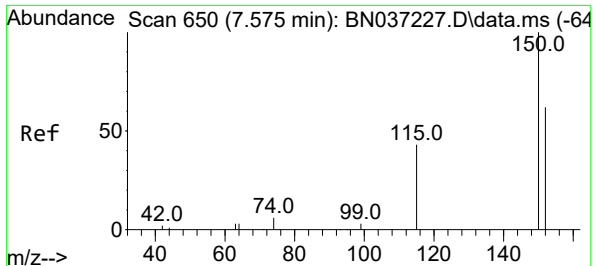
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037282.D  
Acq On : 15 Jun 2025 03:54  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Quant Time: Jun 16 02:47:53 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 2025  
Response via : Initial Calibration

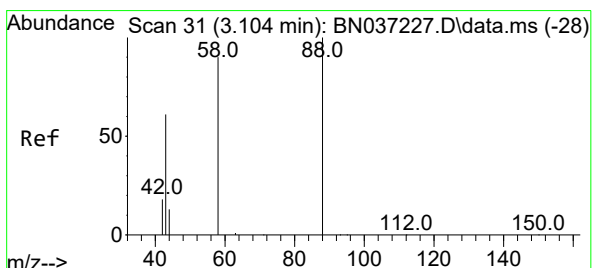
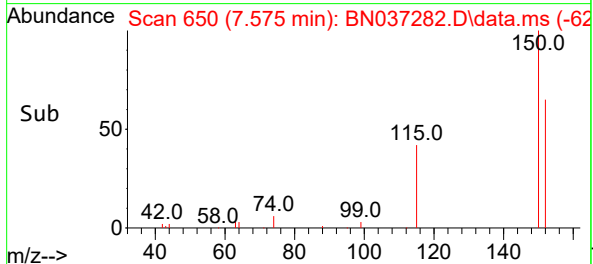
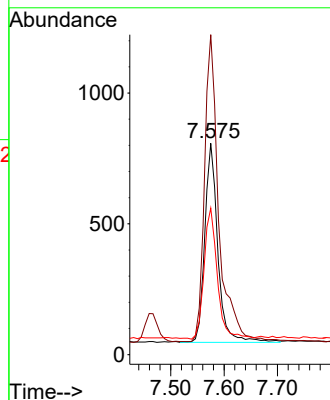
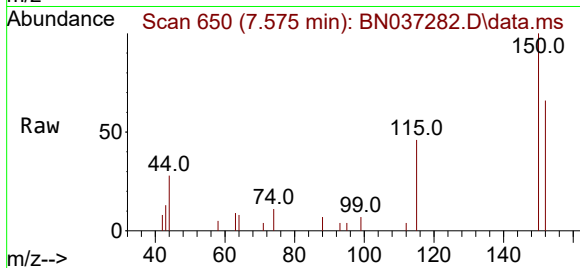




#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

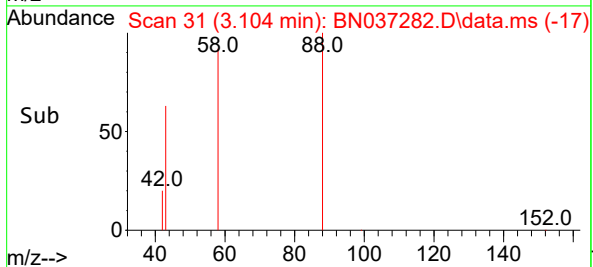
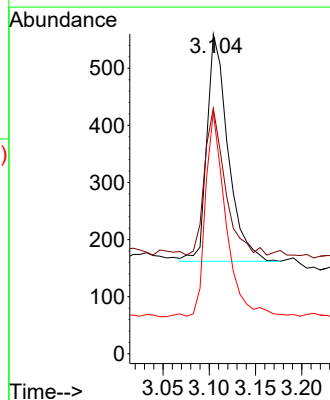
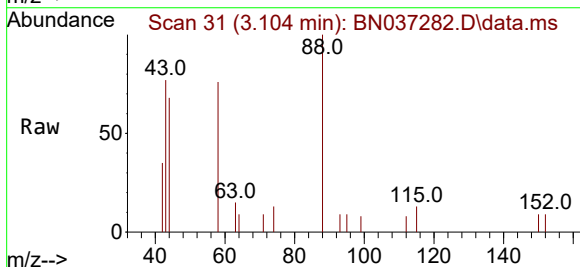
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

Tgt Ion:152 Resp: 1297  
Ion Ratio Lower Upper  
152 100  
150 151.4 125.2 187.8  
115 69.3 58.4 87.6



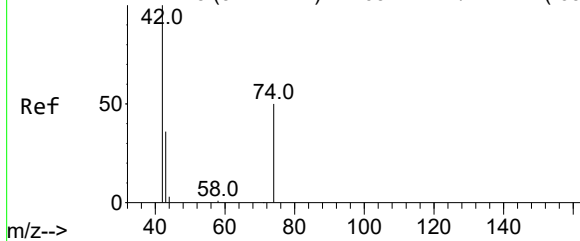
#2  
1,4-Dioxane  
Concen: 0.353 ng  
RT: 3.104 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

Tgt Ion: 88 Resp: 629  
Ion Ratio Lower Upper  
88 100  
43 63.0 52.6 79.0  
58 87.4 73.5 110.3





Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.403 ng

RT: 3.422 min Scan# 75

Delta R.T. 0.000 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

Tgt Ion: 42 Resp: 1632

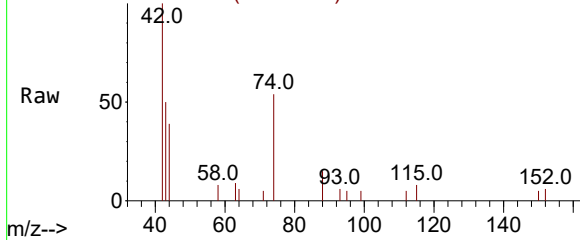
Ion Ratio Lower Upper

42 100

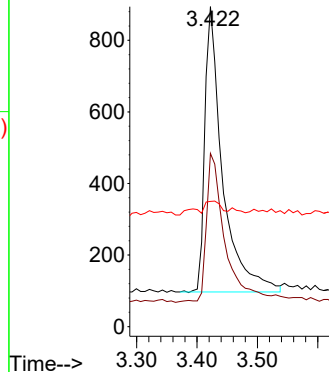
74 55.9 44.6 66.8

44 3.9 3.5 5.3

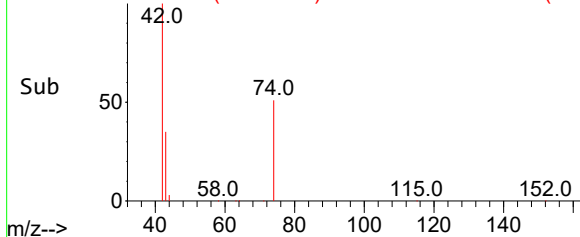
Abundance Scan 75 (3.422 min): BN037282.D\data.ms



Abundance

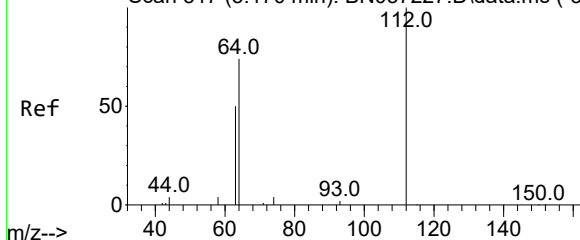


Abundance Scan 75 (3.422 min): BN037282.D\data.ms (-54)



Time--&gt;

Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.373 ng

RT: 5.170 min Scan# 317

Delta R.T. 0.000 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

Tgt Ion: 112 Resp: 1187

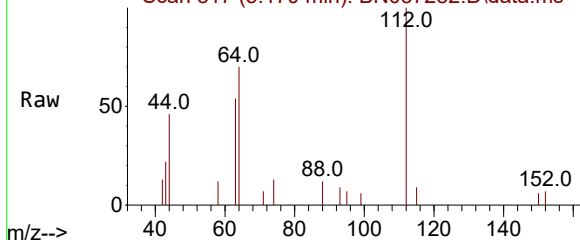
Ion Ratio Lower Upper

112 100

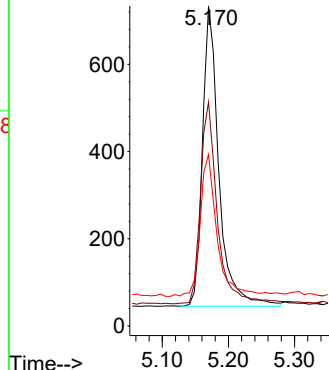
64 69.8 57.2 85.8

63 48.4 39.8 59.6

Abundance Scan 317 (5.170 min): BN037282.D\data.ms

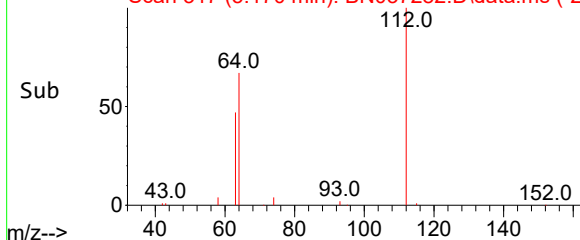


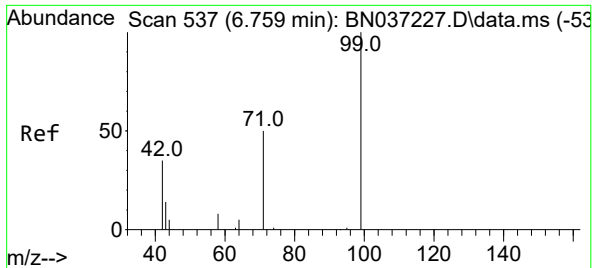
Abundance



Time--&gt;

Abundance Scan 317 (5.170 min): BN037282.D\data.ms (-28)

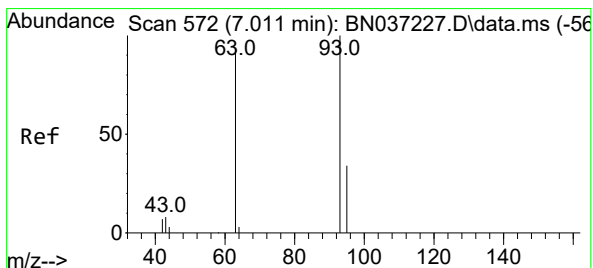
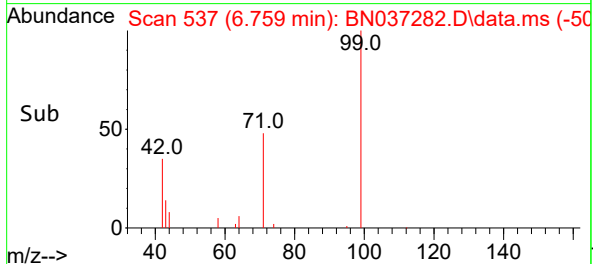
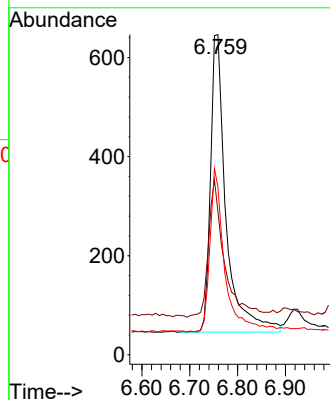
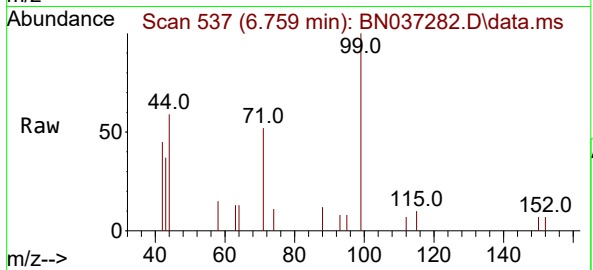




#5  
Phenol-d6  
Concen: 0.402 ng  
RT: 6.759 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

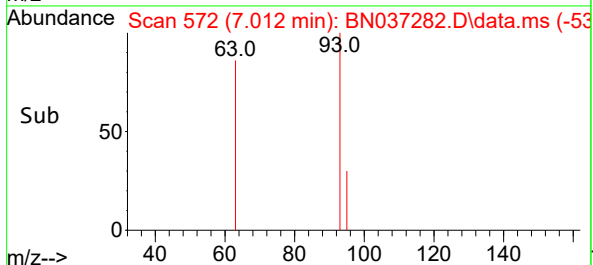
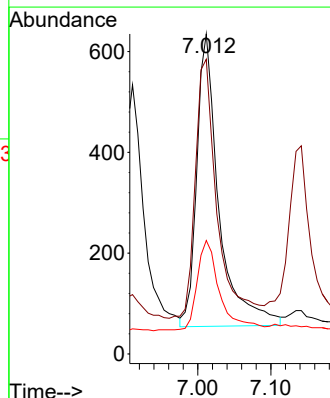
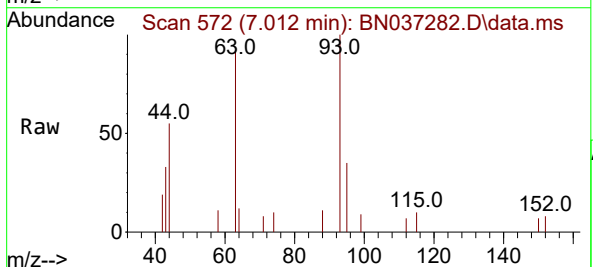
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

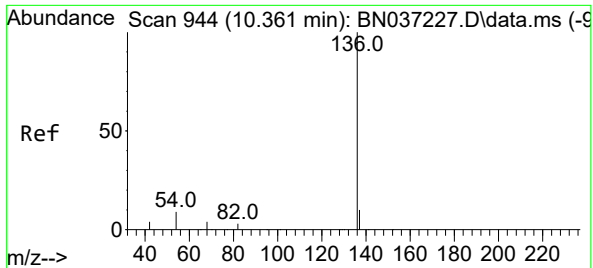
Tgt Ion: 99 Resp: 1349  
Ion Ratio Lower Upper  
99 100  
42 47.1 36.2 54.4  
71 54.2 42.4 63.6



#6  
bis(2-Chloroethyl)ether  
Concen: 0.407 ng  
RT: 7.012 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

Tgt Ion: 93 Resp: 1224  
Ion Ratio Lower Upper  
93 100  
63 86.8 75.2 112.8  
95 32.1 28.3 42.5

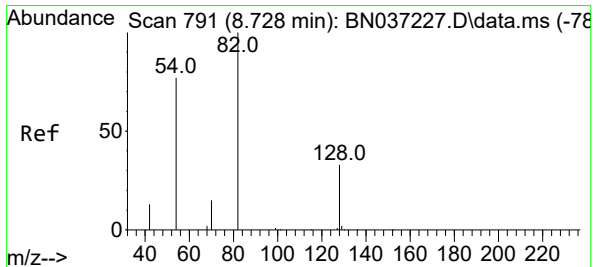
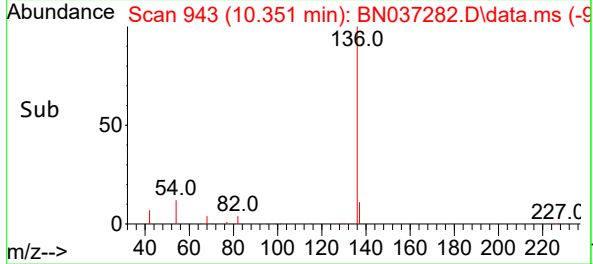
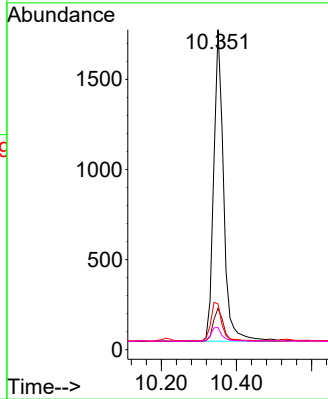
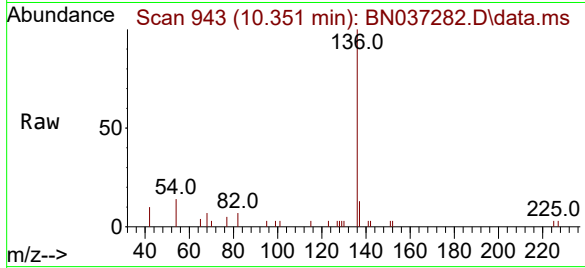




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 944  
Delta R.T. -0.011 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

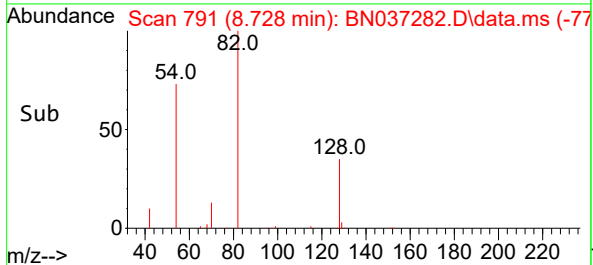
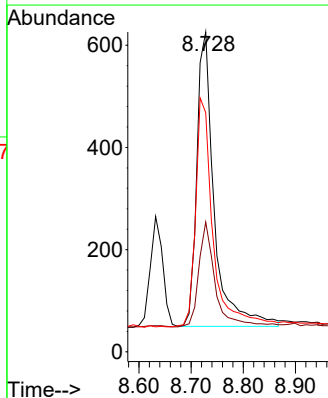
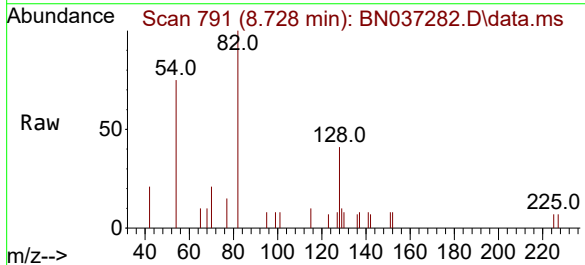
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

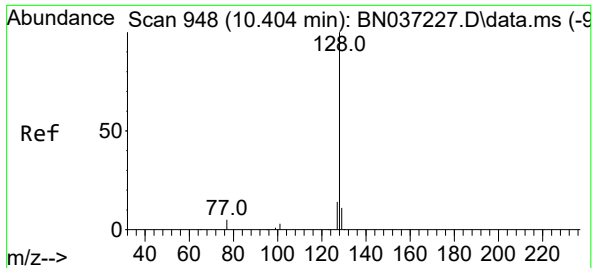
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 3173  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 13.0  | 10.6  | 15.8  |
| 54       | 14.3  | 9.2   | 13.8# |
| 68       | 6.9   | 5.4   | 8.0   |



#8  
Nitrobenzene-d5  
Concen: 0.425 ng  
RT: 8.728 min Scan# 791  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 1334  |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 40.6  | 31.2  | 46.8  |
| 54       | 74.8  | 63.3  | 94.9  |

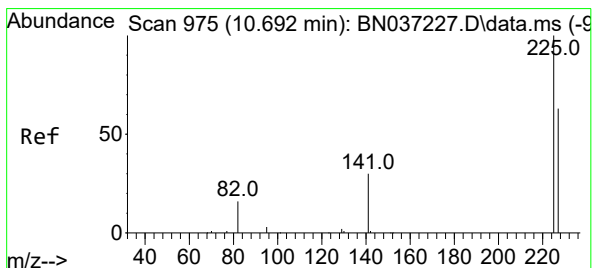
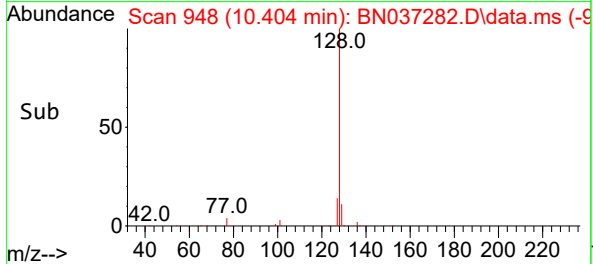
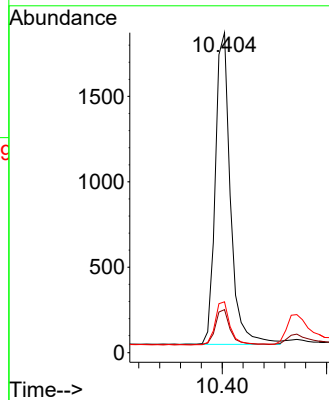
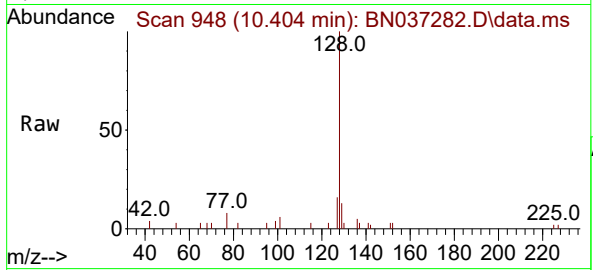




#9  
Naphthalene  
Concen: 0.400 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

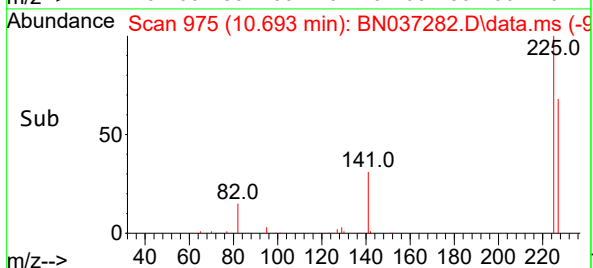
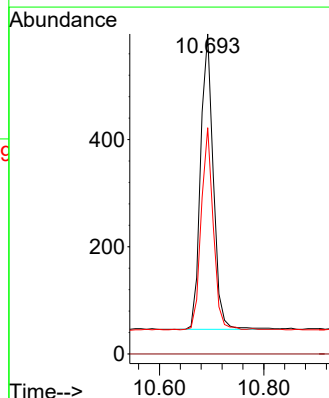
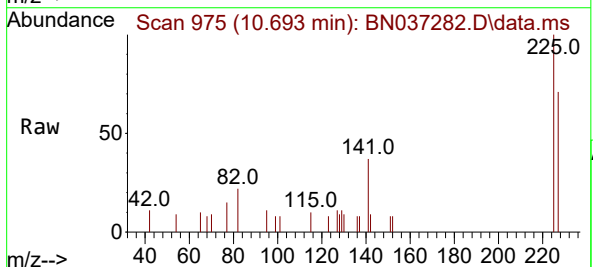
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

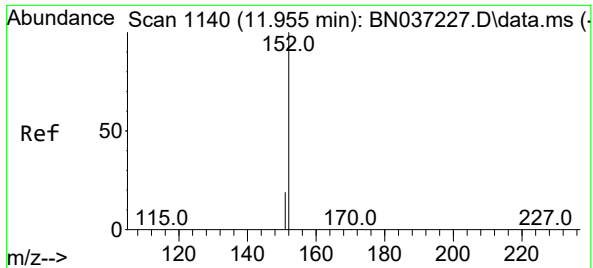
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 3674  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 13.5  | 10.7  | 16.1  |
| 127      | 15.9  | 12.6  | 19.0  |



#10  
Hexachlorobutadiene  
Concen: 0.416 ng  
RT: 10.693 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 930   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 65.1  | 49.2  | 73.8  |

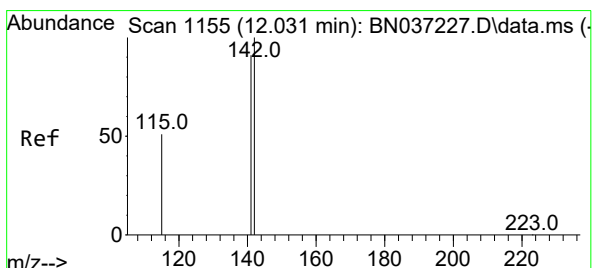
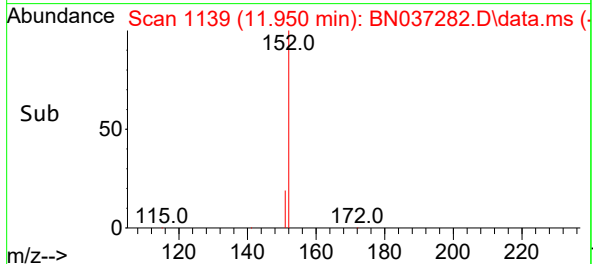
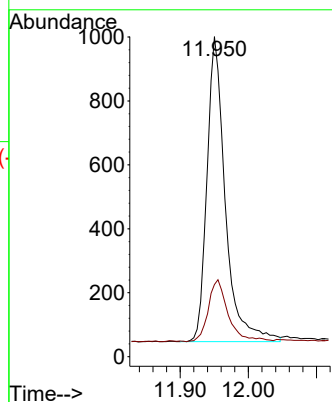
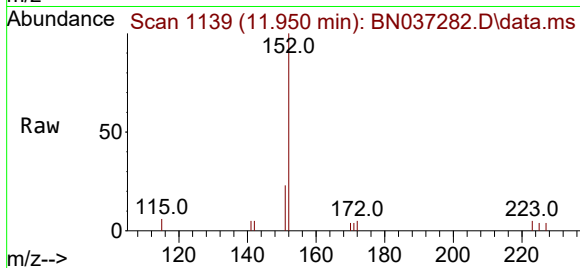




#11  
2-Methylnaphthalene-d10  
Concen: 0.419 ng  
RT: 11.950 min Scan# 1139  
Delta R.T. -0.005 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

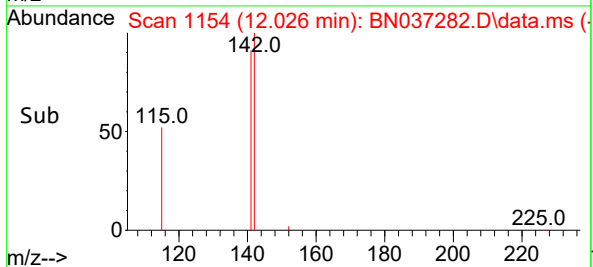
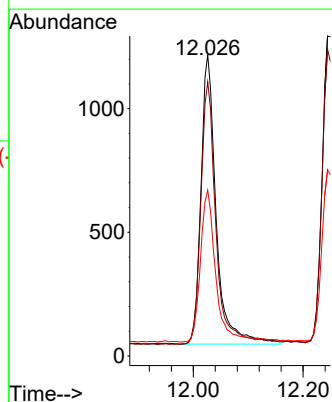
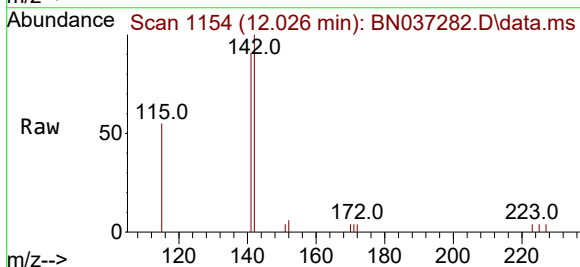
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

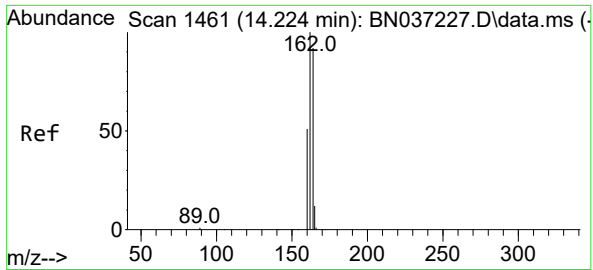
Tgt Ion:152 Resp: 1783  
Ion Ratio Lower Upper  
152 100  
151 22.0 17.9 26.9



#12  
2-Methylnaphthalene  
Concen: 0.402 ng  
RT: 12.026 min Scan# 1154  
Delta R.T. -0.005 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

Tgt Ion:142 Resp: 2248  
Ion Ratio Lower Upper  
142 100  
141 91.0 73.0 109.6  
115 55.0 43.3 64.9

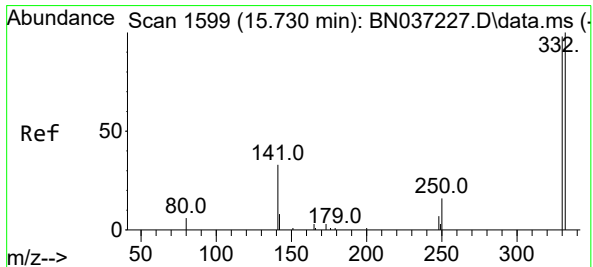
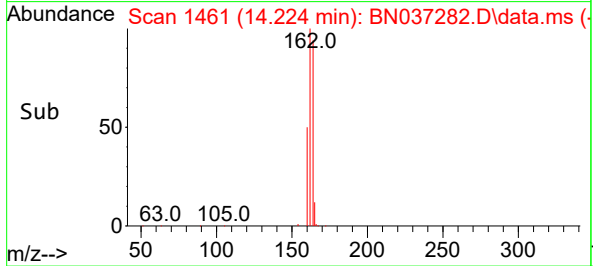
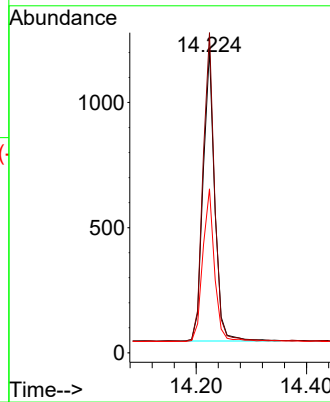
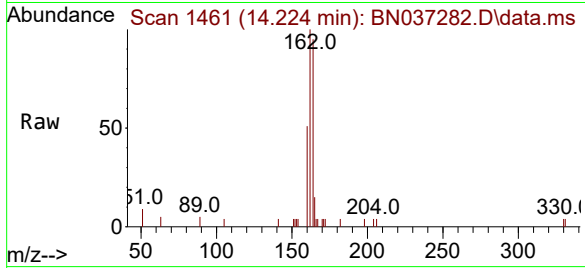




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.224 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

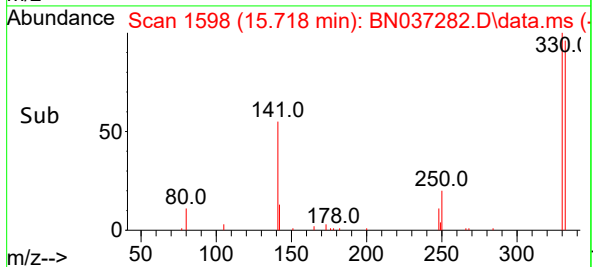
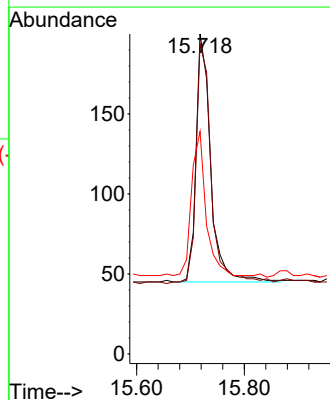
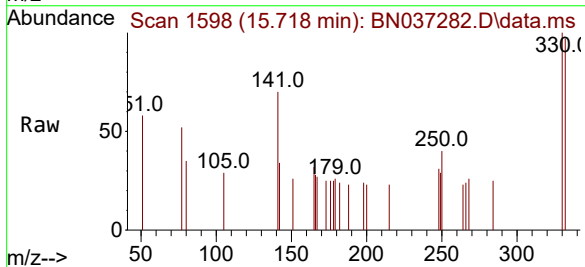
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

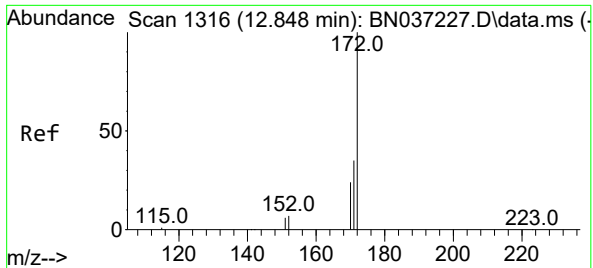
Tgt Ion:164 Resp: 1710  
Ion Ratio Lower Upper  
164 100  
162 105.6 86.7 130.1  
160 54.1 45.8 68.6



#14  
2,4,6-Tribromophenol  
Concen: 0.413 ng  
RT: 15.718 min Scan# 1598  
Delta R.T. -0.012 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

Tgt Ion:330 Resp: 293  
Ion Ratio Lower Upper  
330 100  
332 101.0 74.9 112.3  
141 57.0 45.1 67.7

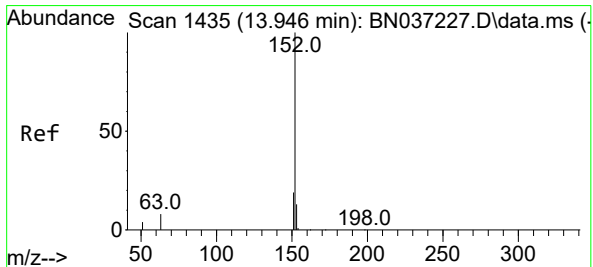
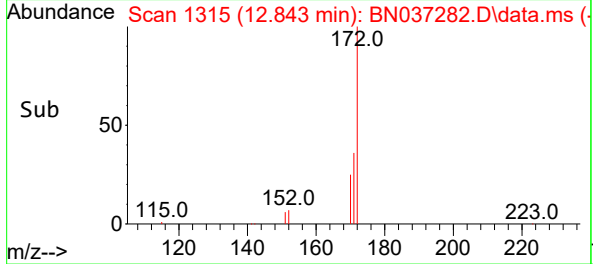
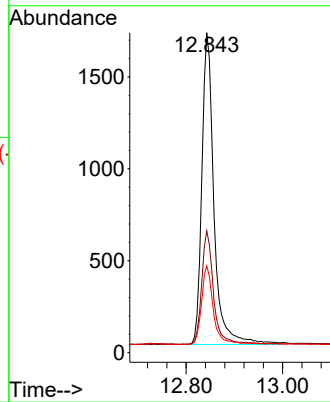
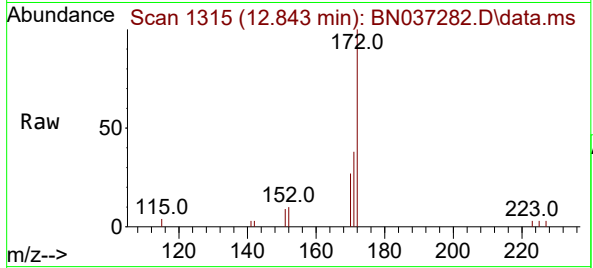




#15  
2-Fluorobiphenyl  
Concen: 0.413 ng  
RT: 12.843 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

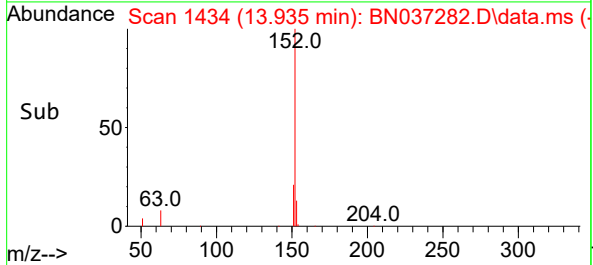
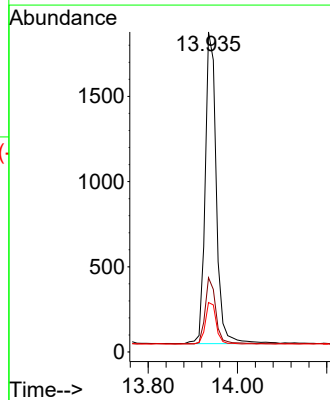
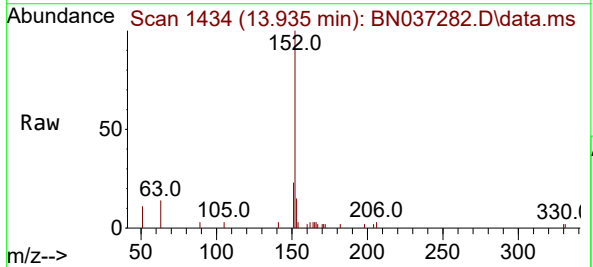
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

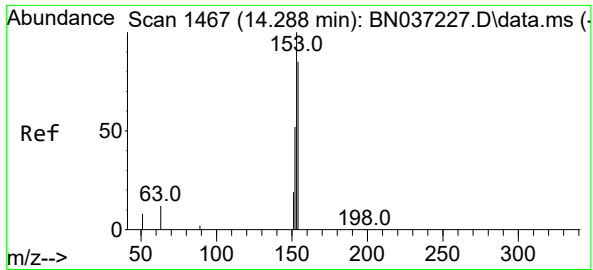
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 172   | Resp: | 2968 |
| Ion Ratio | Lower | Upper |      |
| 172       | 100   |       |      |
| 171       | 38.1  | 29.8  | 44.8 |
| 170       | 27.1  | 21.1  | 31.7 |



#16  
Acenaphthylene  
Concen: 0.377 ng  
RT: 13.935 min Scan# 1434  
Delta R.T. -0.011 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 152   | Resp: | 3158 |
| Ion Ratio | Lower | Upper |      |
| 152       | 100   |       |      |
| 151       | 20.6  | 15.7  | 23.5 |
| 153       | 13.2  | 10.7  | 16.1 |

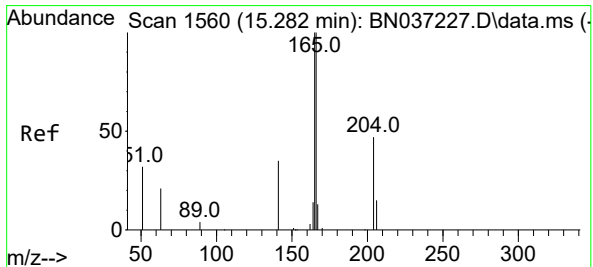
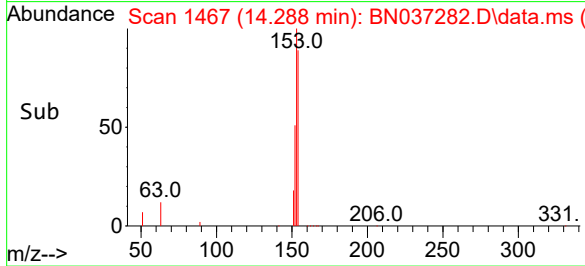
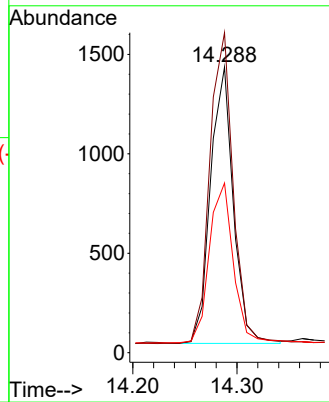
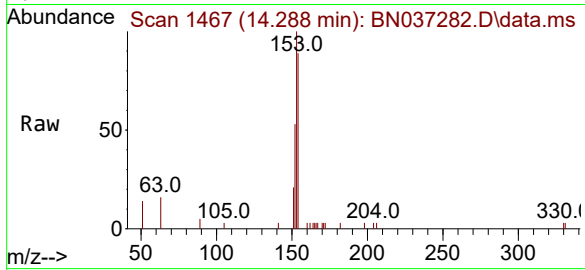




#17  
Acenaphthene  
Concen: 0.390 ng  
RT: 14.288 min Scan# 1467  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

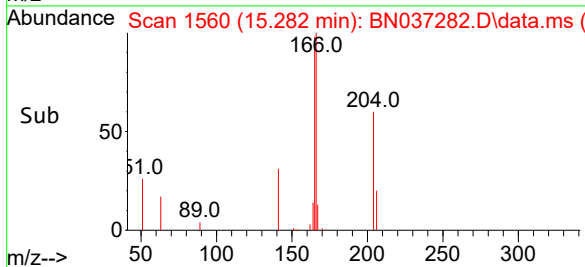
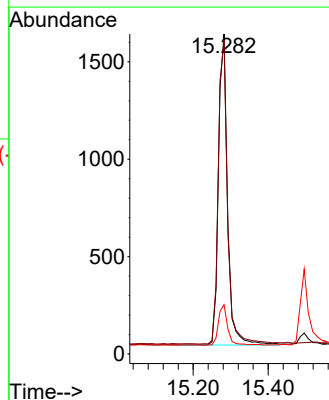
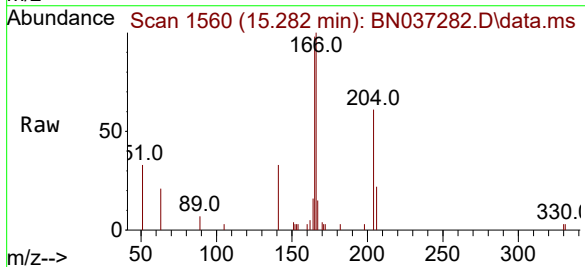
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 2107  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 116.8 | 94.6  | 141.8 |
| 152       | 61.8  | 49.6  | 74.4  |

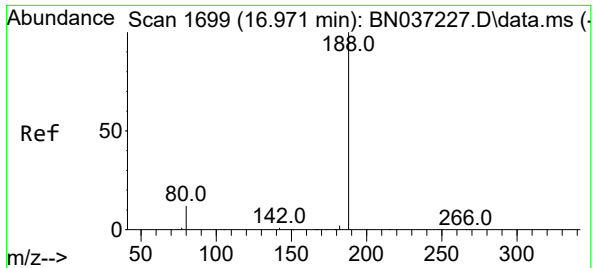


#18  
Fluorene  
Concen: 0.388 ng  
RT: 15.282 min Scan# 1560  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 2693  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.3  | 79.8  | 119.6 |
| 167       | 13.4  | 10.8  | 16.2  |







#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1

Delta R.T. 0.000 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

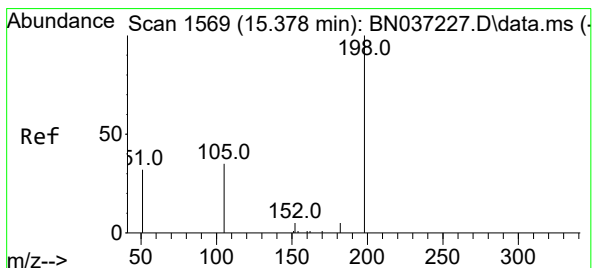
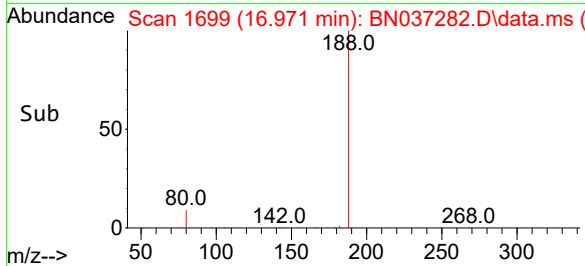
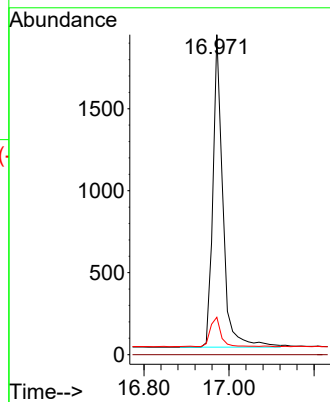
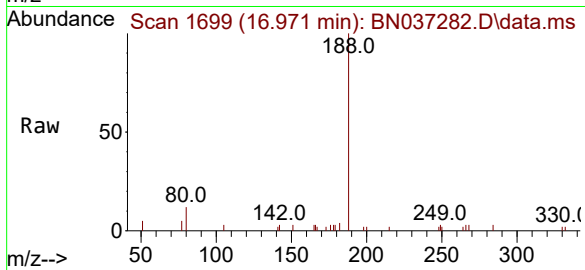
Tgt Ion:188 Resp: 3109

Ion Ratio Lower Upper

188 100

94 0.0 0.0 0.0

80 11.7 12.2 18.4#



#20

4,6-Dinitro-2-methylphenol

Concen: 0.462 ng

RT: 15.378 min Scan# 1569

Delta R.T. 0.000 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

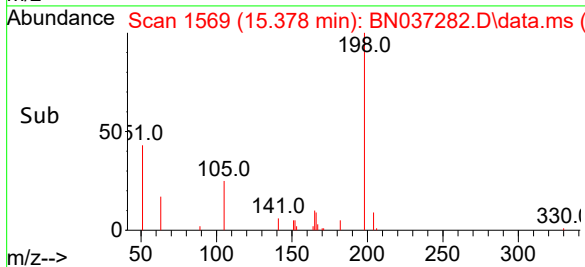
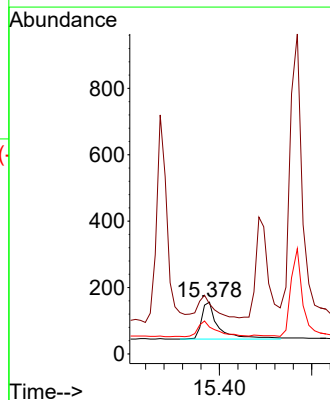
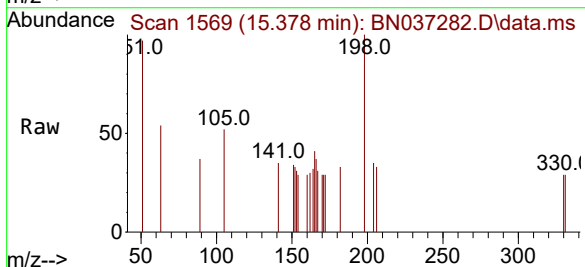
Tgt Ion:198 Resp: 282

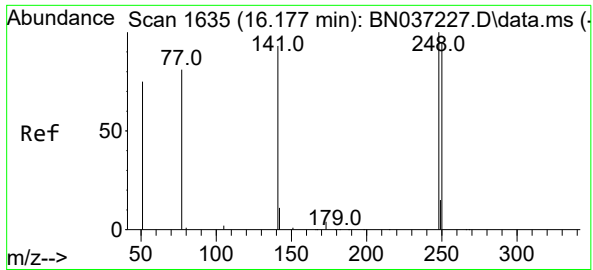
Ion Ratio Lower Upper

198 100

51 96.8 111.2 166.8#

105 51.9 54.0 81.0#

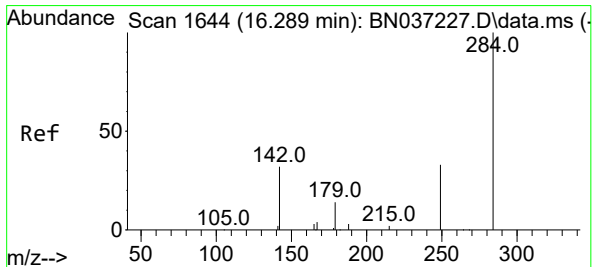
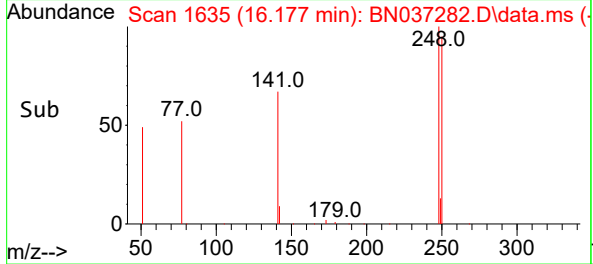
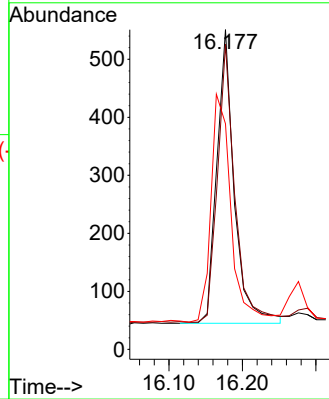
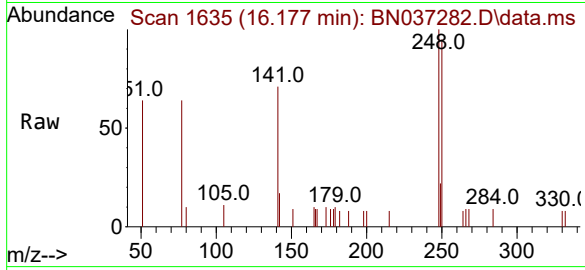




#21  
4-Bromophenyl-phenylether  
Concen: 0.412 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

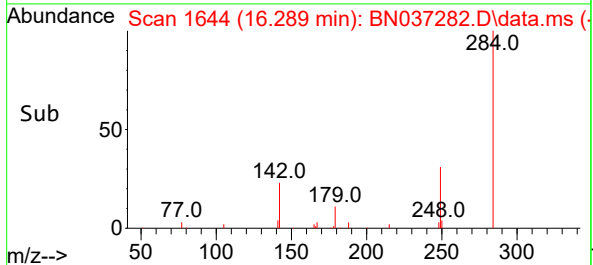
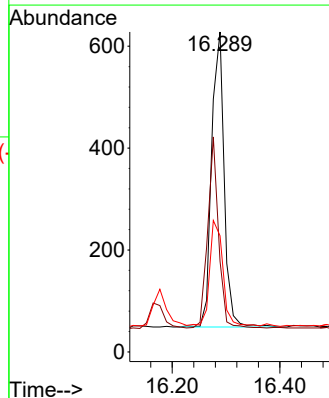
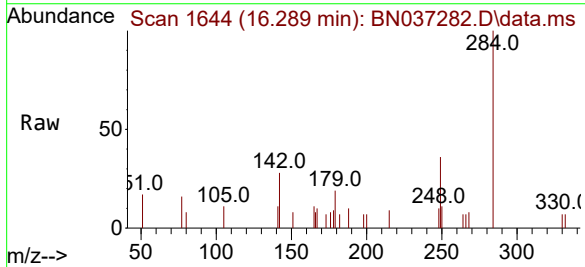
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

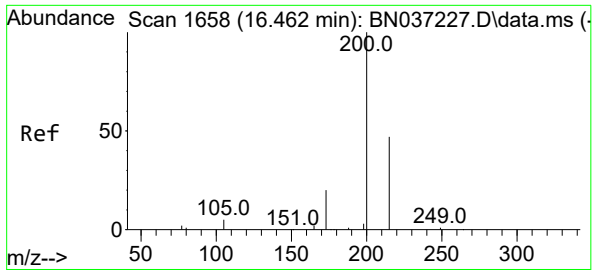
Tgt Ion:248 Resp: 834  
Ion Ratio Lower Upper  
248 100  
250 95.5 76.8 115.2  
141 70.6 75.6 113.4#



#22  
Hexachlorobenzene  
Concen: 0.396 ng  
RT: 16.289 min Scan# 1644  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

Tgt Ion:284 Resp: 930  
Ion Ratio Lower Upper  
284 100  
142 56.7 43.8 65.6  
249 37.4 28.4 42.6

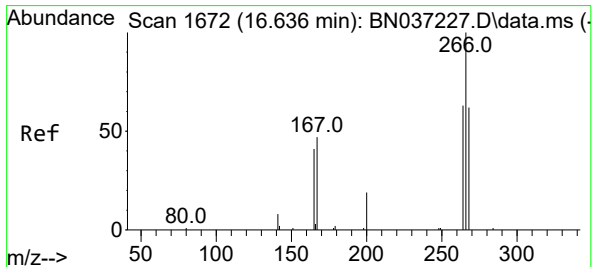
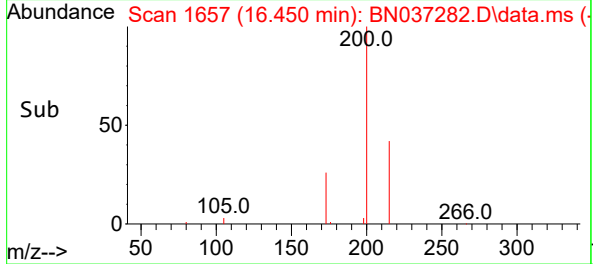
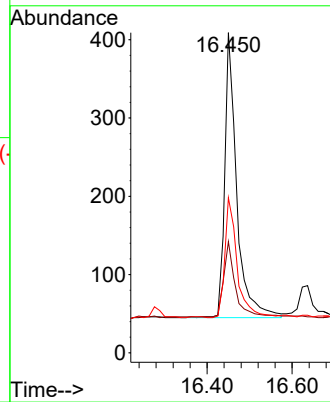
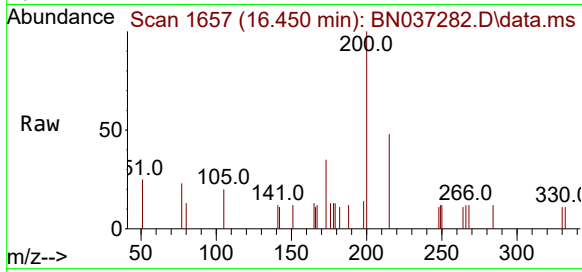




#23  
Atrazine  
Concen: 0.393 ng  
RT: 16.450 min Scan# 1657  
Delta R.T. -0.012 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

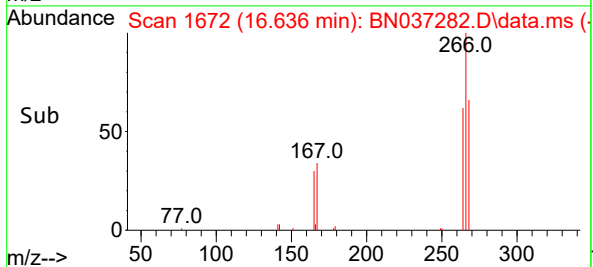
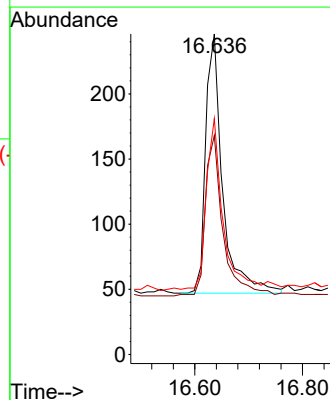
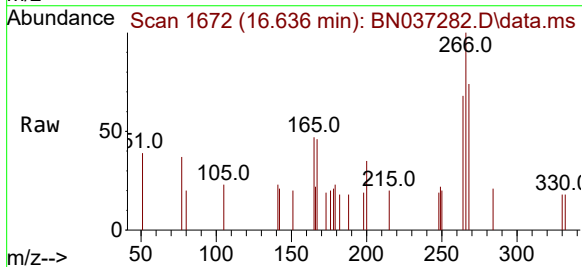
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

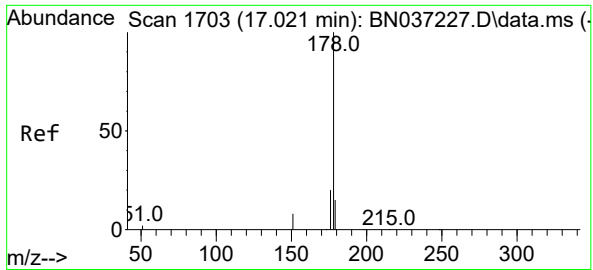
Tgt Ion:200 Resp: 711  
Ion Ratio Lower Upper  
200 100  
173 34.7 25.1 37.7  
215 48.4 43.7 65.5



#24  
Pentachlorophenol  
Concen: 0.378 ng  
RT: 16.636 min Scan# 1672  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

Tgt Ion:266 Resp: 435  
Ion Ratio Lower Upper  
266 100  
264 64.1 49.2 73.8  
268 65.5 53.4 80.2

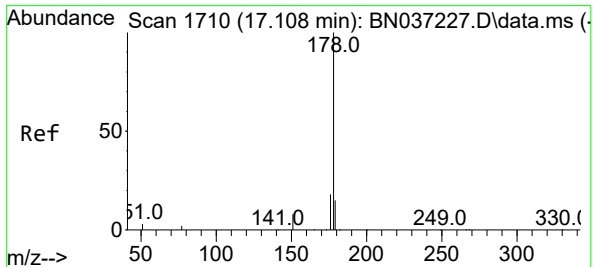
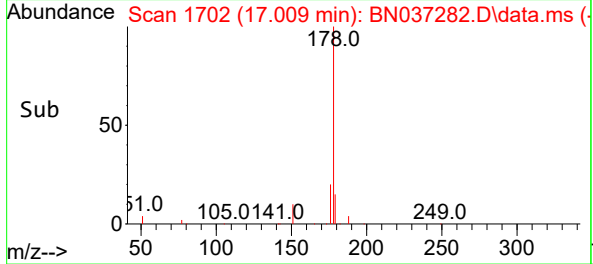
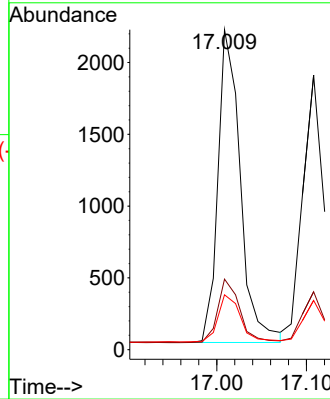
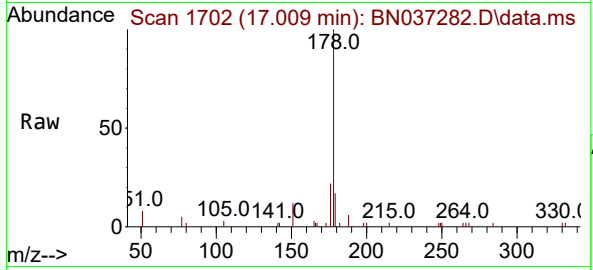




#25  
Phenanthrene  
Concen: 0.383 ng  
RT: 17.009 min Scan# 1702  
Delta R.T. -0.012 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

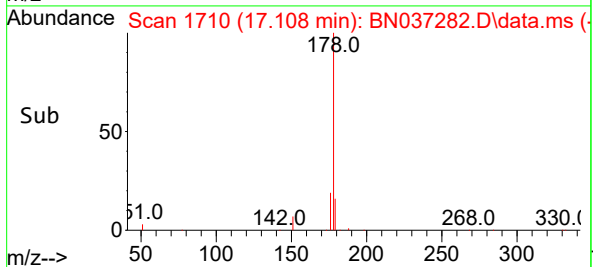
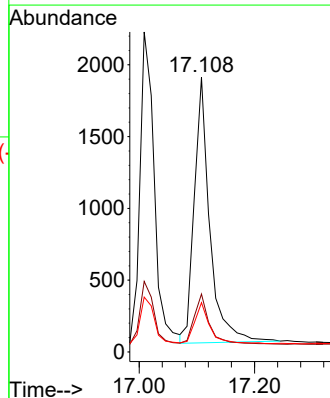
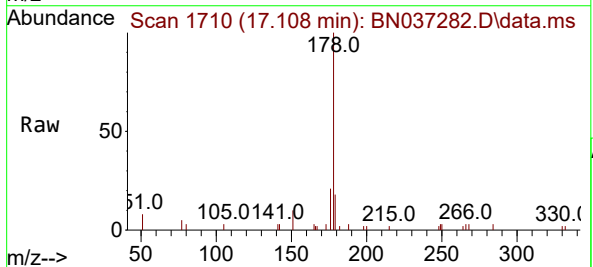
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

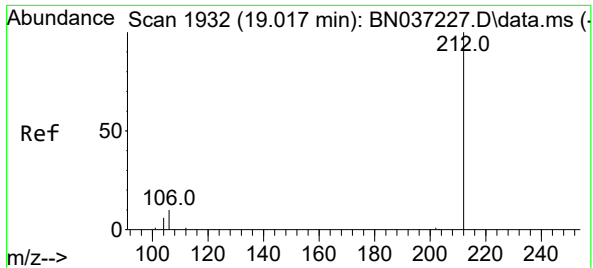
Tgt Ion:178 Resp: 3779  
Ion Ratio Lower Upper  
178 100  
176 20.0 16.3 24.5  
179 15.8 12.6 18.8



#26  
Anthracene  
Concen: 0.383 ng  
RT: 17.108 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

Tgt Ion:178 Resp: 3458  
Ion Ratio Lower Upper  
178 100  
176 19.1 15.1 22.7  
179 15.0 12.4 18.6

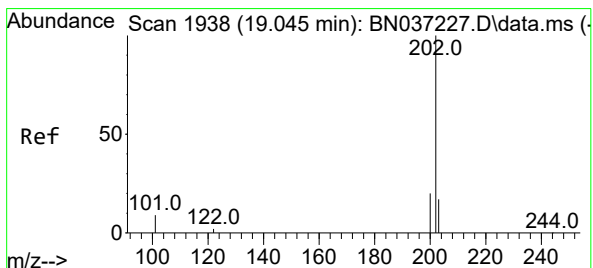
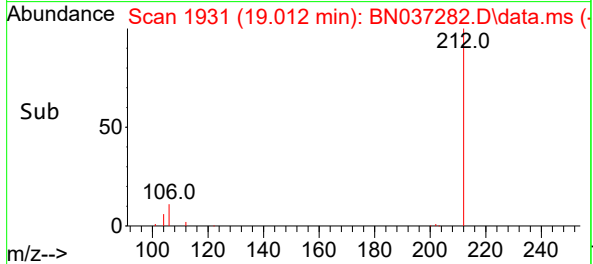
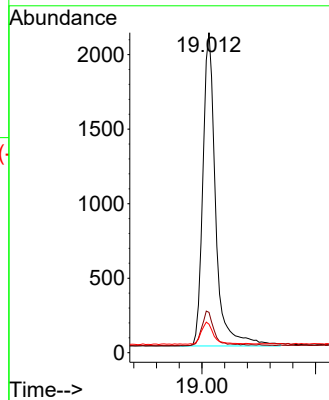
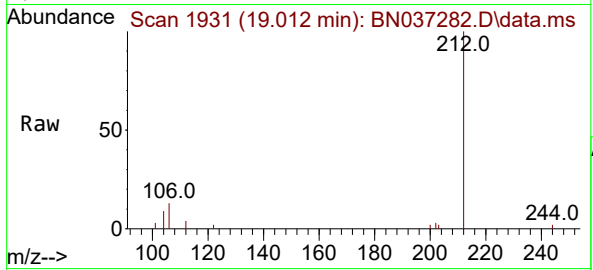




#27  
Fluoranthene-d10  
Concen: 0.403 ng  
RT: 19.012 min Scan# 1932  
Delta R.T. -0.005 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

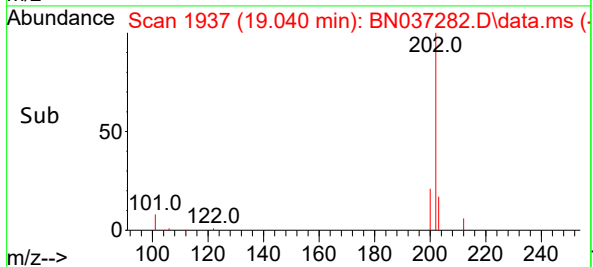
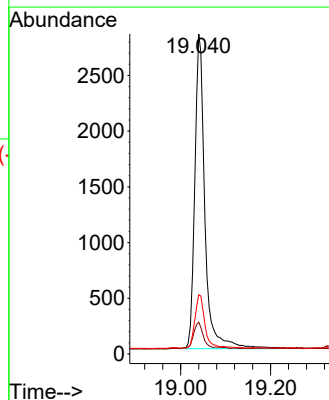
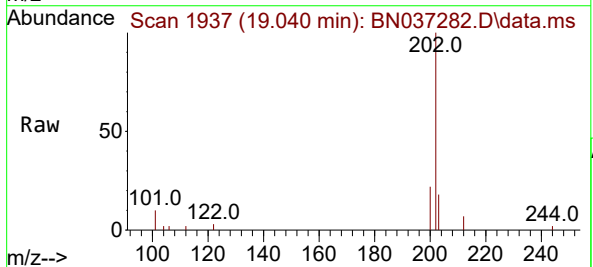
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

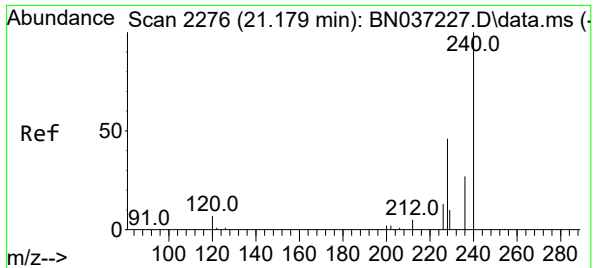
Tgt Ion:212 Resp: 3277  
Ion Ratio Lower Upper  
212 100  
106 10.6 9.3 13.9  
104 6.8 5.7 8.5



#28  
Fluoranthene  
Concen: 0.381 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.005 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

Tgt Ion:202 Resp: 4402  
Ion Ratio Lower Upper  
202 100  
101 8.5 7.1 10.7  
203 16.9 13.0 19.6

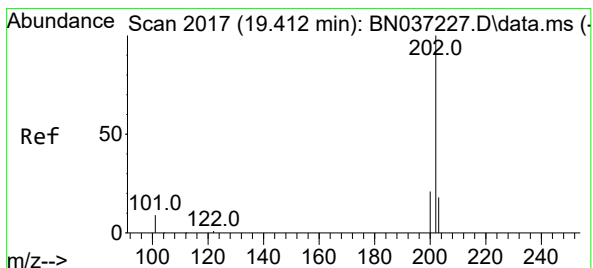
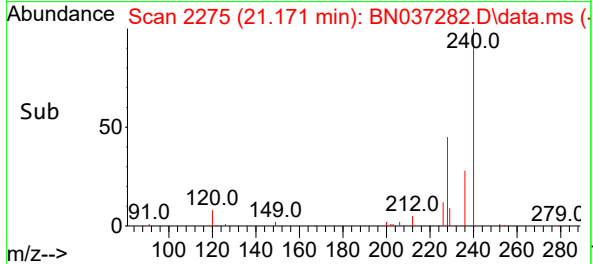
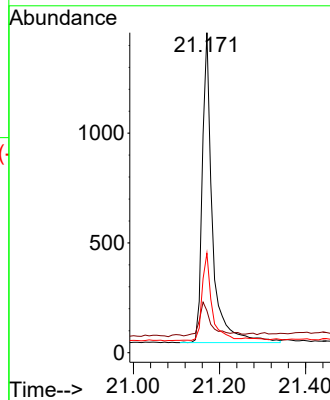
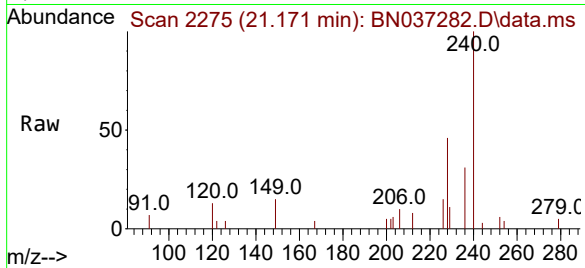




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.171 min Scan# 211  
Delta R.T. -0.009 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

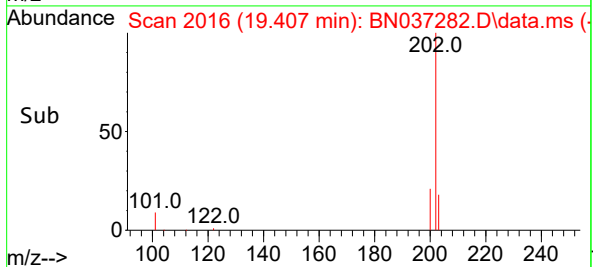
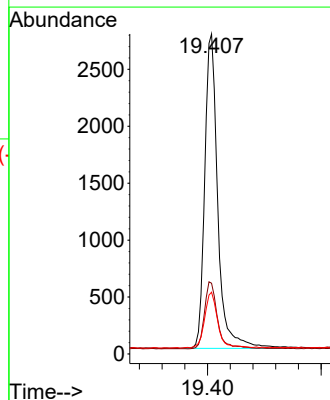
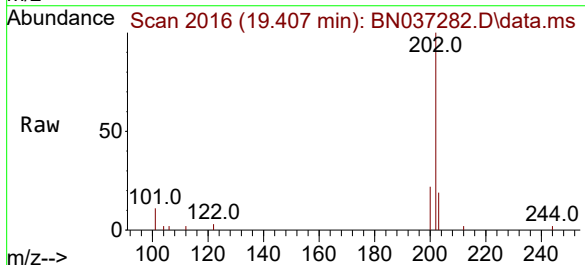
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

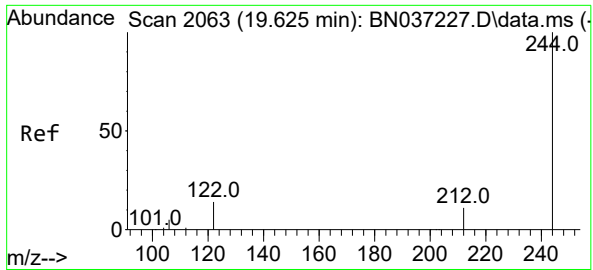
Tgt Ion:240 Resp: 2311  
Ion Ratio Lower Upper  
240 100  
120 13.1 11.3 16.9  
236 31.1 24.4 36.6



#30  
Pyrene  
Concen: 0.404 ng  
RT: 19.407 min Scan# 2016  
Delta R.T. -0.005 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

Tgt Ion:202 Resp: 4393  
Ion Ratio Lower Upper  
202 100  
200 21.4 17.2 25.8  
203 17.8 14.3 21.5

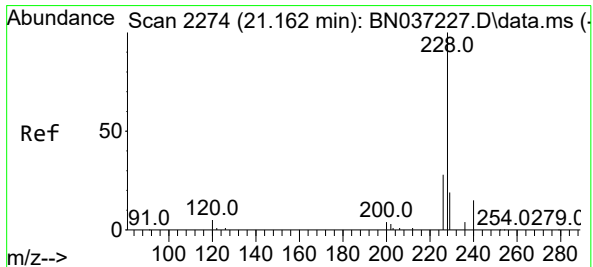
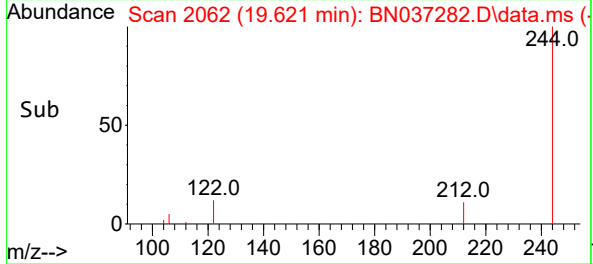
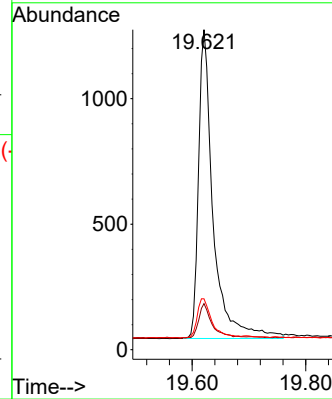
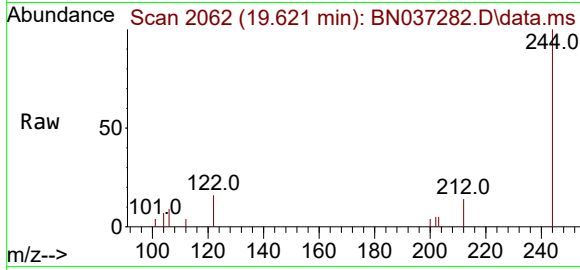




#31  
Terphenyl-d14  
Concen: 0.420 ng  
RT: 19.621 min Scan# 2062  
Delta R.T. -0.005 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

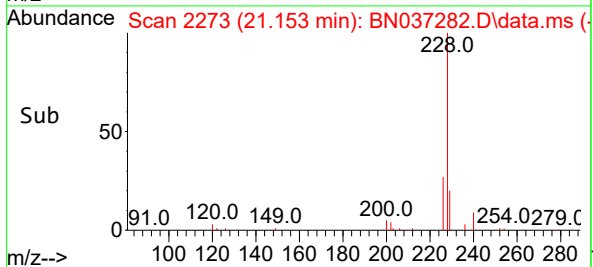
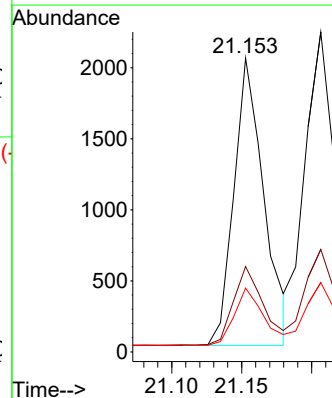
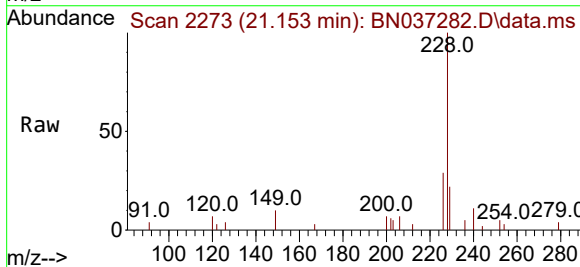
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDCCC0.4EC

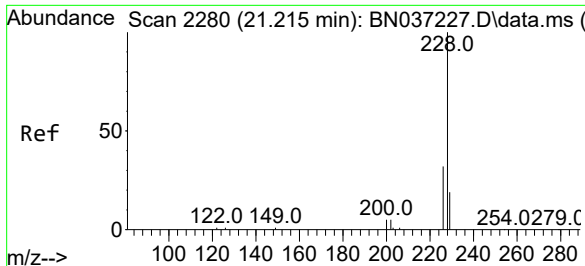
|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:244 | Resp: | 2194        |
| Ion         | Ratio | Lower Upper |
| 244         | 100   |             |
| 212         | 14.4  | 12.2 18.2   |
| 122         | 15.9  | 14.3 21.5   |



#32  
Benzo(a)anthracene  
Concen: 0.387 ng  
RT: 21.153 min Scan# 2273  
Delta R.T. -0.009 min  
Lab File: BN037282.D  
Acq: 15 Jun 2025 03:54

|             |       |             |
|-------------|-------|-------------|
| Tgt Ion:228 | Resp: | 3022        |
| Ion         | Ratio | Lower Upper |
| 228         | 100   |             |
| 226         | 29.0  | 23.8 35.8   |
| 229         | 21.7  | 17.0 25.4   |





#33

Chrysene

Concen: 0.404 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

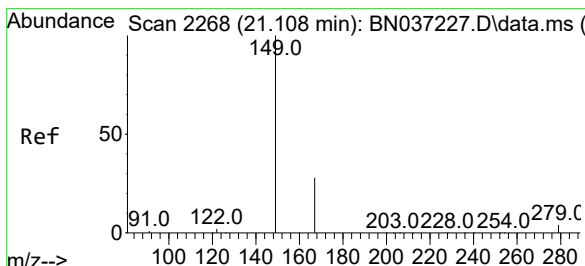
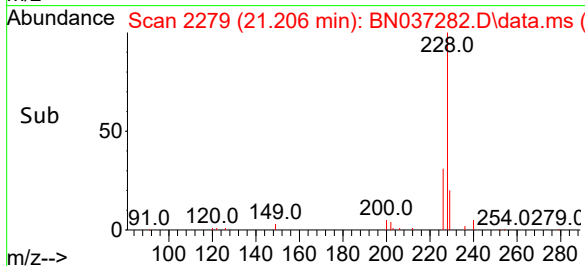
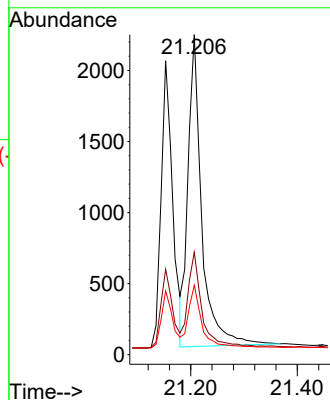
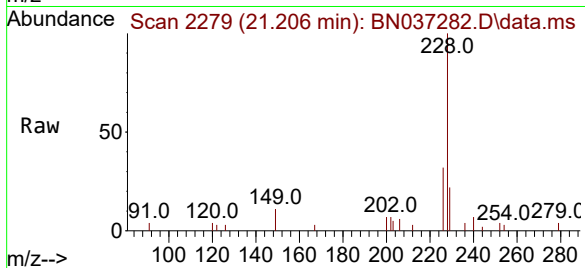
Tgt Ion:228 Resp: 3925

Ion Ratio Lower Upper

228 100

226 32.1 25.8 38.6

229 21.7 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.399 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

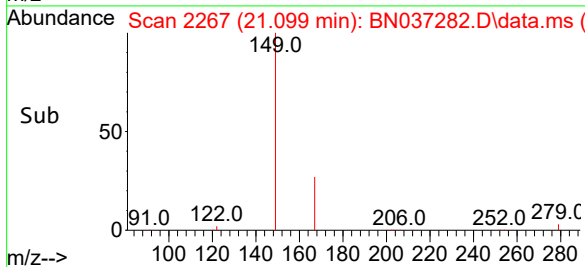
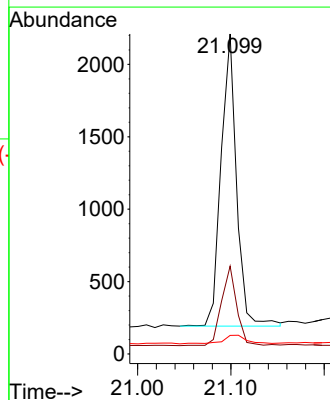
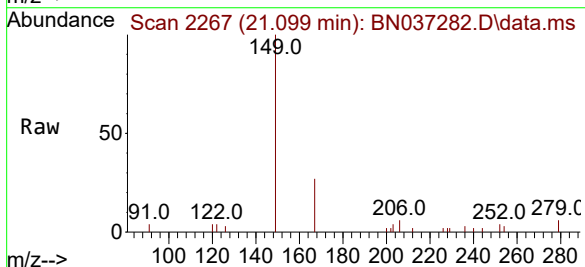
Tgt Ion:149 Resp: 2319

Ion Ratio Lower Upper

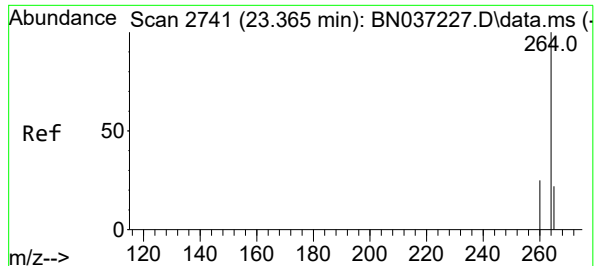
149 100

167 26.9 21.3 31.9

279 4.6 3.3 4.9







#35

Perylene-d12

Concen: 0.400 ng

RT: 23.351 min Scan# 21

Delta R.T. -0.014 min

Lab File: BN037282.D

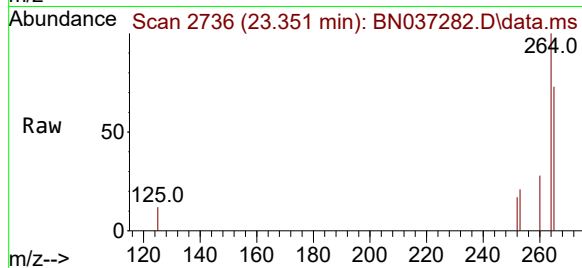
Acq: 15 Jun 2025 03:54

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



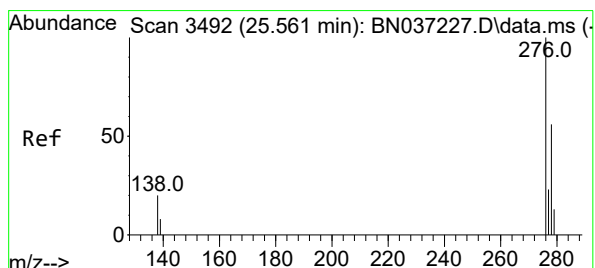
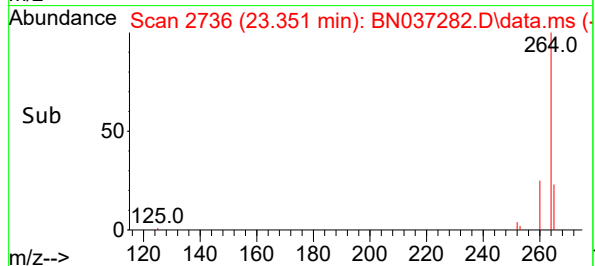
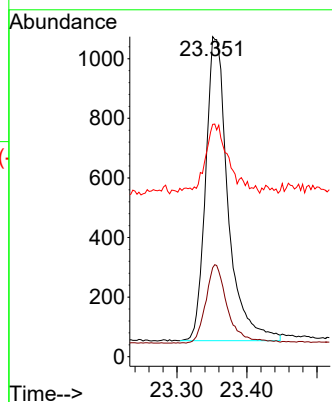
Tgt Ion:264 Resp: 2261

Ion Ratio Lower Upper

264 100

260 27.8 22.8 34.2

265 72.6 66.4 99.6



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.381 ng

RT: 25.541 min Scan# 3485

Delta R.T. -0.020 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

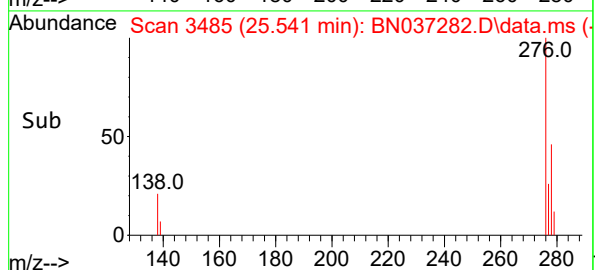
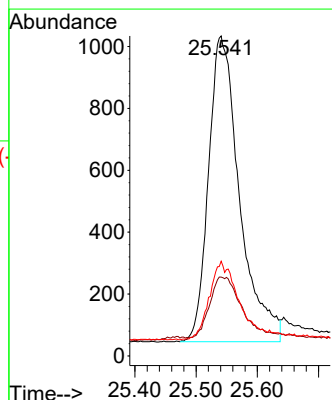
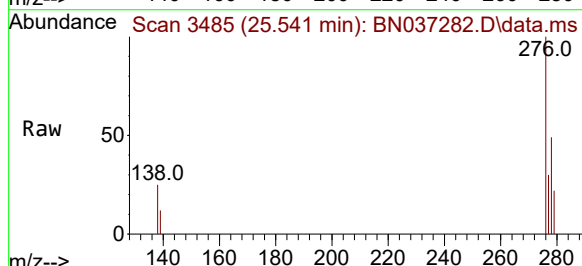
Tgt Ion:276 Resp: 3478

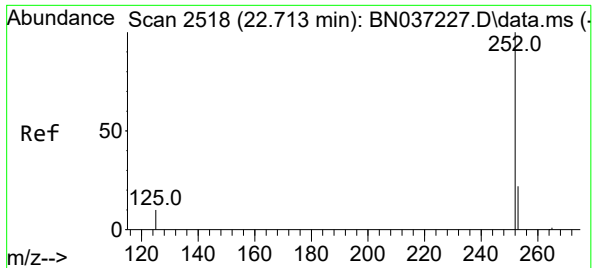
Ion Ratio Lower Upper

276 100

138 20.3 16.8 25.2

277 24.4 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.401 ng

RT: 22.702 min Scan# 2514

Delta R.T. -0.012 min

Lab File: BN037282.D

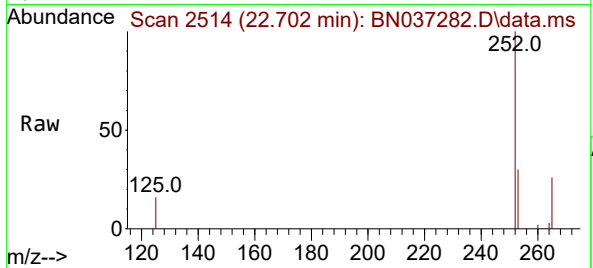
Acq: 15 Jun 2025 03:54

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



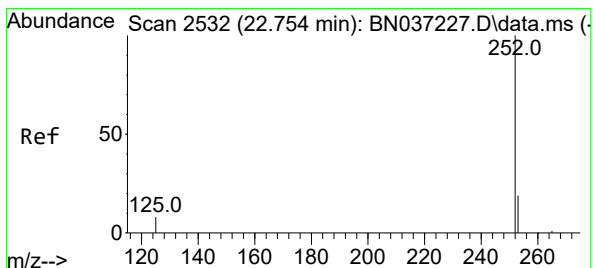
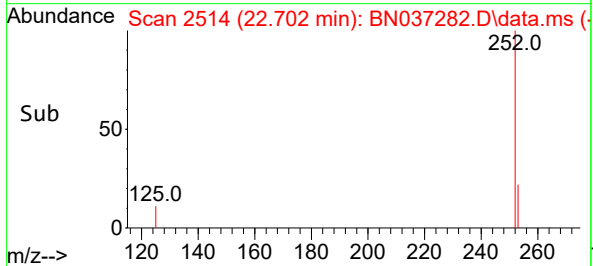
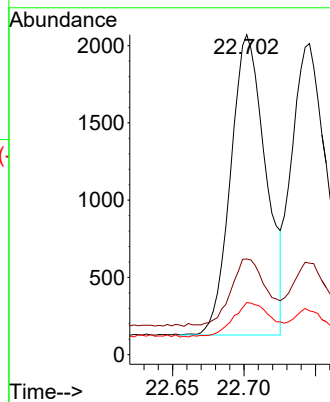
Tgt Ion:252 Resp: 3315

Ion Ratio Lower Upper

252 100

253 29.9 24.9 37.3

125 16.3 12.9 19.3



#38

Benzo(k)fluoranthene

Concen: 0.374 ng

RT: 22.746 min Scan# 2529

Delta R.T. -0.009 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

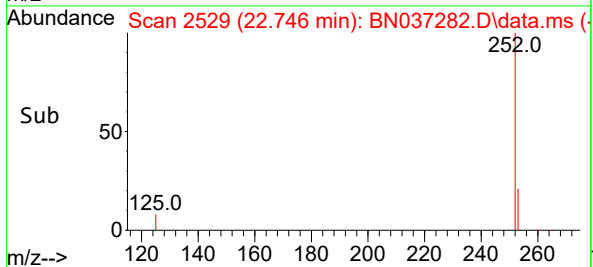
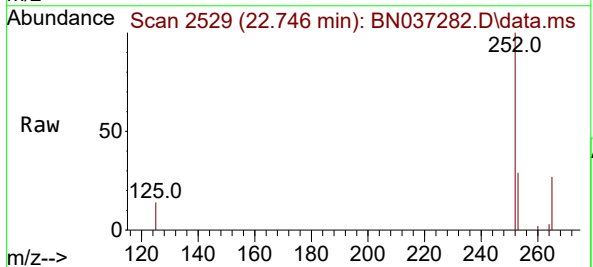
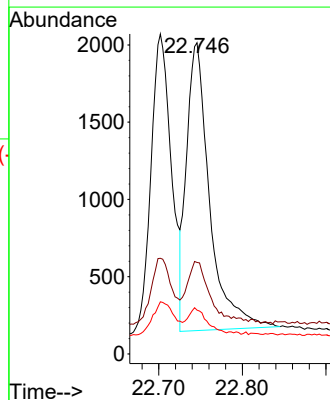
Tgt Ion:252 Resp: 3572

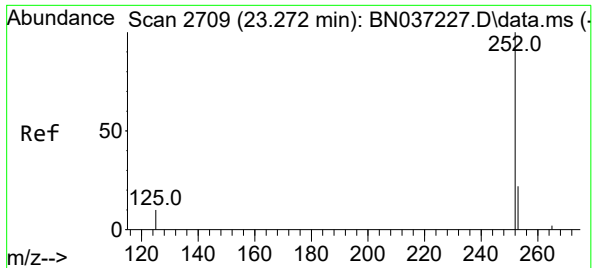
Ion Ratio Lower Upper

252 100

253 29.4 24.6 37.0

125 14.1 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.389 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

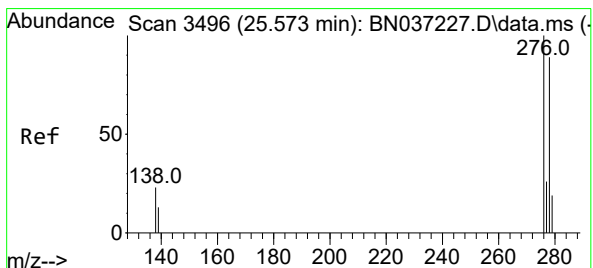
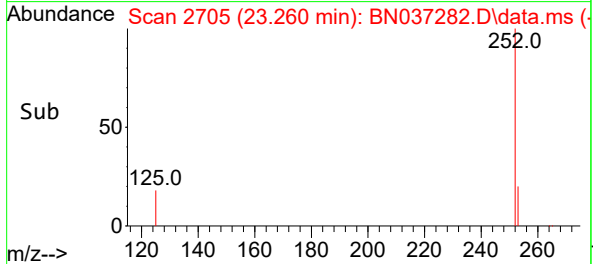
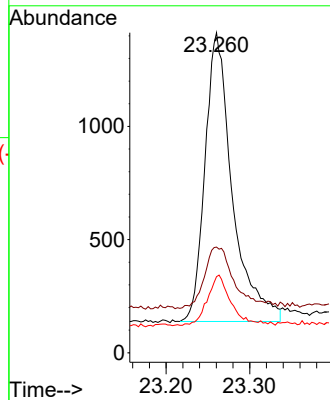
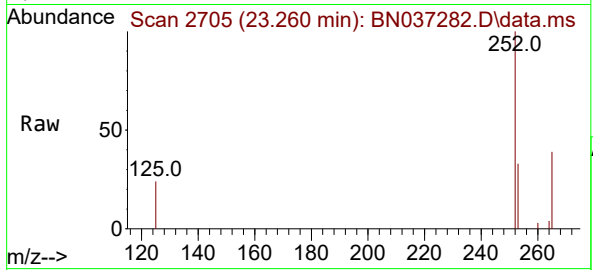
Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:252 | Resp: | 2896      |
| Ion Ratio   | Lower | Upper     |
| 252         | 100   |           |
| 253         | 33.0  | 29.4 44.2 |
| 125         | 23.8  | 16.2 24.2 |



#40

Dibenzo(a,h)anthracene

Concen: 0.397 ng

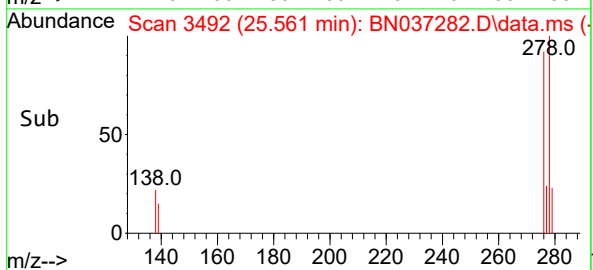
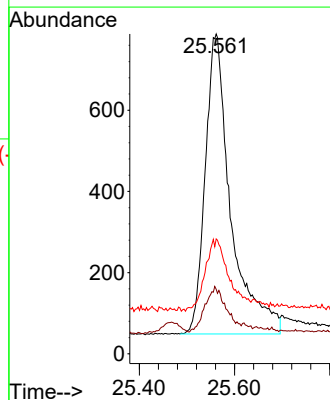
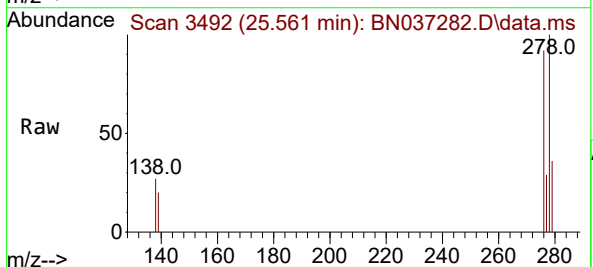
RT: 25.561 min Scan# 3492

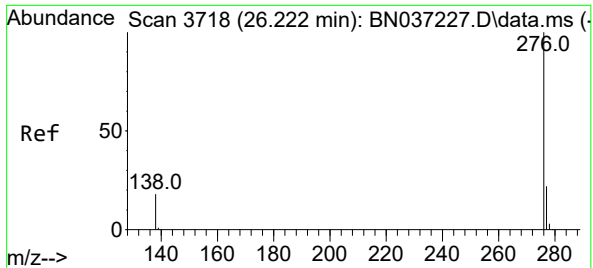
Delta R.T. -0.012 min

Lab File: BN037282.D

Acq: 15 Jun 2025 03:54

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:278 | Resp: | 2756      |
| Ion Ratio   | Lower | Upper     |
| 278         | 100   |           |
| 139         | 20.2  | 17.8 26.6 |
| 279         | 35.9  | 31.3 46.9 |





#41

Benzo(g,h,i)perylene

Concen: 0.389 ng

RT: 26.204 min Scan# 31

Delta R.T. -0.017 min

Lab File: BN037282.D

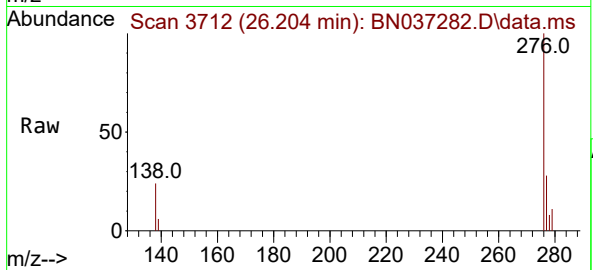
Acq: 15 Jun 2025 03:54

Instrument :

BNA\_N

ClientSampleId :

SSTDCCC0.4EC



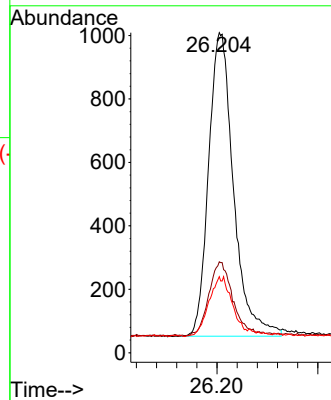
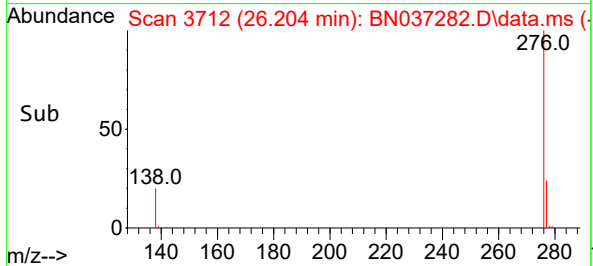
Tgt Ion:276 Resp: 3285

Ion Ratio Lower Upper

276 100

277 28.4 22.0 33.0

138 23.8 18.4 27.6



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037282.D  
Acq On : 15 Jun 2025 03:54  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Jun 16 02:47:53 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 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  | 101   | 0.00     |
| 2       | 1,4-Dioxane                | 0.549 | 0.485 | 11.7 | 93    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 1.250 | 1.258 | -0.6 | 99    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.982 | 0.915 | 6.8  | 98    | 0.00     |
| 5 S     | Phenol-d6                  | 1.035 | 1.040 | -0.5 | 109   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.927 | 0.944 | -1.8 | 109   | 0.00     |
| 7 I     | Naphthalene-d8             | 1.000 | 1.000 | 0.0  | 99    | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.395 | 0.420 | -6.3 | 108   | 0.00     |
| 9       | Naphthalene                | 1.158 | 1.158 | 0.0  | 101   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.282 | 0.293 | -3.9 | 96    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.537 | 0.562 | -4.7 | 100   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.704 | 0.708 | -0.6 | 99    | 0.00     |
| 13 I    | Acenaphthene-d10           | 1.000 | 1.000 | 0.0  | 98    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.166 | 0.171 | -3.0 | 98    | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 1.681 | 1.736 | -3.3 | 101   | 0.00     |
| 16      | Acenaphthylene             | 1.960 | 1.847 | 5.8  | 97    | -0.01    |
| 17      | Acenaphthene               | 1.265 | 1.232 | 2.6  | 98    | 0.00     |
| 18      | Fluorene                   | 1.625 | 1.575 | 3.1  | 97    | 0.00     |
| 19 I    | Phenanthrene-d10           | 1.000 | 1.000 | 0.0  | 97    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.092 | 0.091 | 1.1  | 134   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.261 | 0.268 | -2.7 | 107   | 0.00     |
| 22      | Hexachlorobenzene          | 0.302 | 0.299 | 1.0  | 94    | 0.00     |
| 23      | Atrazine                   | 0.232 | 0.229 | 1.3  | 100   | -0.01    |
| 24      | Pentachlorophenol          | 0.148 | 0.140 | 5.4  | 110   | 0.00     |
| 25      | Phenanthrene               | 1.269 | 1.216 | 4.2  | 100   | -0.01    |
| 26      | Anthracene                 | 1.161 | 1.112 | 4.2  | 100   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 1.046 | 1.054 | -0.8 | 97    | 0.00     |
| 28      | Fluoranthene               | 1.485 | 1.416 | 4.6  | 98    | 0.00     |
| 29 I    | Chrysene-d12               | 1.000 | 1.000 | 0.0  | 101   | 0.00     |
| 30      | Pyrene                     | 1.881 | 1.901 | -1.1 | 98    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.904 | 0.949 | -5.0 | 102   | 0.00     |
| 32      | Benzo(a)anthracene         | 1.351 | 1.308 | 3.2  | 108   | 0.00     |
| 33      | Chrysene                   | 1.683 | 1.698 | -0.9 | 101   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 1.006 | 1.003 | 0.3  | 99    | 0.00     |
| 35 I    | Perylene-d12               | 1.000 | 1.000 | 0.0  | 105   | -0.01    |
| 36      | Indeno(1,2,3-cd)pyrene     | 1.613 | 1.538 | 4.6  | 107   | -0.02    |
| 37      | Benzo(b)fluoranthene       | 1.463 | 1.466 | -0.2 | 112   | -0.01    |
| 38      | Benzo(k)fluoranthene       | 1.689 | 1.580 | 6.5  | 102   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 1.316 | 1.281 | 2.7  | 109   | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 1.227 | 1.219 | 0.7  | 122   | -0.01    |
| 41      | Benzo(g,h,i)perylene       | 1.496 | 1.453 | 2.9  | 106   | -0.02    |

(#) = Out of Range

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037282.D  
Acq On : 15 Jun 2025 03:54  
Operator : RC/JU  
Sample : SSTDCCC0.4  
Misc :  
ALS Vial : 61 Sample Multiplier: 1

Instrument :  
BNA\_N  
LabSampleId :  
SSTDCCC0.4

Quant Time: Jun 16 02:47:53 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 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   | 101   | 0.00     |
| 2       | 1,4-Dioxane                | 0.400  | 0.353 | 11.8  | 93    | 0.00     |
| 3       | n-Nitrosodimethylamine     | 0.400  | 0.403 | -0.8  | 99    | 0.00     |
| 4 S     | 2-Fluorophenol             | 0.400  | 0.373 | 6.8   | 98    | 0.00     |
| 5 S     | Phenol-d6                  | 0.400  | 0.402 | -0.5  | 109   | 0.00     |
| 6       | bis(2-Chloroethyl)ether    | 0.400  | 0.407 | -1.7  | 109   | 0.00     |
| 7 I     | Naphthalene-d8             | 0.400  | 0.400 | 0.0   | 99    | -0.01    |
| 8 S     | Nitrobenzene-d5            | 0.400  | 0.425 | -6.2  | 108   | 0.00     |
| 9       | Naphthalene                | 0.400  | 0.400 | 0.0   | 101   | 0.00     |
| 10      | Hexachlorobutadiene        | 0.400  | 0.416 | -4.0  | 96    | 0.00     |
| 11 SURR | 2-Methylnaphthalene-d10    | 0.400  | 0.419 | -4.7  | 100   | 0.00     |
| 12      | 2-Methylnaphthalene        | 0.400  | 0.402 | -0.5  | 99    | 0.00     |
| 13 I    | Acenaphthene-d10           | 0.400  | 0.400 | 0.0   | 98    | 0.00     |
| 14 S    | 2,4,6-Tribromophenol       | 0.400  | 0.413 | -3.2  | 98    | -0.01    |
| 15 S    | 2-Fluorobiphenyl           | 0.400  | 0.413 | -3.2  | 101   | 0.00     |
| 16      | Acenaphthylene             | 0.400  | 0.377 | 5.8   | 97    | -0.01    |
| 17      | Acenaphthene               | 0.400  | 0.390 | 2.5   | 98    | 0.00     |
| 18      | Fluorene                   | 0.400  | 0.388 | 3.0   | 97    | 0.00     |
| 19 I    | Phenanthrene-d10           | 0.400  | 0.400 | 0.0   | 97    | 0.00     |
| 20      | 4,6-Dinitro-2-methylphenol | 0.400  | 0.462 | -15.5 | 134   | 0.00     |
| 21      | 4-Bromophenyl-phenylether  | 0.400  | 0.412 | -3.0  | 107   | 0.00     |
| 22      | Hexachlorobenzene          | 0.400  | 0.396 | 1.0   | 94    | 0.00     |
| 23      | Atrazine                   | 0.400  | 0.393 | 1.8   | 100   | -0.01    |
| 24      | Pentachlorophenol          | 0.400  | 0.378 | 5.5   | 110   | 0.00     |
| 25      | Phenanthrene               | 0.400  | 0.383 | 4.3   | 100   | -0.01    |
| 26      | Anthracene                 | 0.400  | 0.383 | 4.3   | 100   | 0.00     |
| 27 SURR | Fluoranthene-d10           | 0.400  | 0.403 | -0.8  | 97    | 0.00     |
| 28      | Fluoranthene               | 0.400  | 0.381 | 4.8   | 98    | 0.00     |
| 29 I    | Chrysene-d12               | 0.400  | 0.400 | 0.0   | 101   | 0.00     |
| 30      | Pyrene                     | 0.400  | 0.404 | -1.0  | 98    | 0.00     |
| 31 S    | Terphenyl-d14              | 0.400  | 0.420 | -5.0  | 102   | 0.00     |
| 32      | Benzo(a)anthracene         | 0.400  | 0.387 | 3.3   | 108   | 0.00     |
| 33      | Chrysene                   | 0.400  | 0.404 | -1.0  | 101   | 0.00     |
| 34      | Bis(2-ethylhexyl)phthalate | 0.400  | 0.399 | 0.3   | 99    | 0.00     |
| 35 I    | Perylene-d12               | 0.400  | 0.400 | 0.0   | 105   | -0.01    |
| 36      | Indeno(1,2,3-cd)pyrene     | 0.400  | 0.381 | 4.8   | 107   | -0.02    |
| 37      | Benzo(b)fluoranthene       | 0.400  | 0.401 | -0.3  | 112   | -0.01    |
| 38      | Benzo(k)fluoranthene       | 0.400  | 0.374 | 6.5   | 102   | 0.00     |
| 39 C    | Benzo(a)pyrene             | 0.400  | 0.389 | 2.8   | 109   | -0.01    |
| 40      | Dibenzo(a,h)anthracene     | 0.400  | 0.397 | 0.8   | 122   | -0.01    |
| 41      | Benzo(g,h,i)perylene       | 0.400  | 0.389 | 2.8   | 106   | -0.02    |

(#) = Out of Range

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



# QC SAMPLE DATA

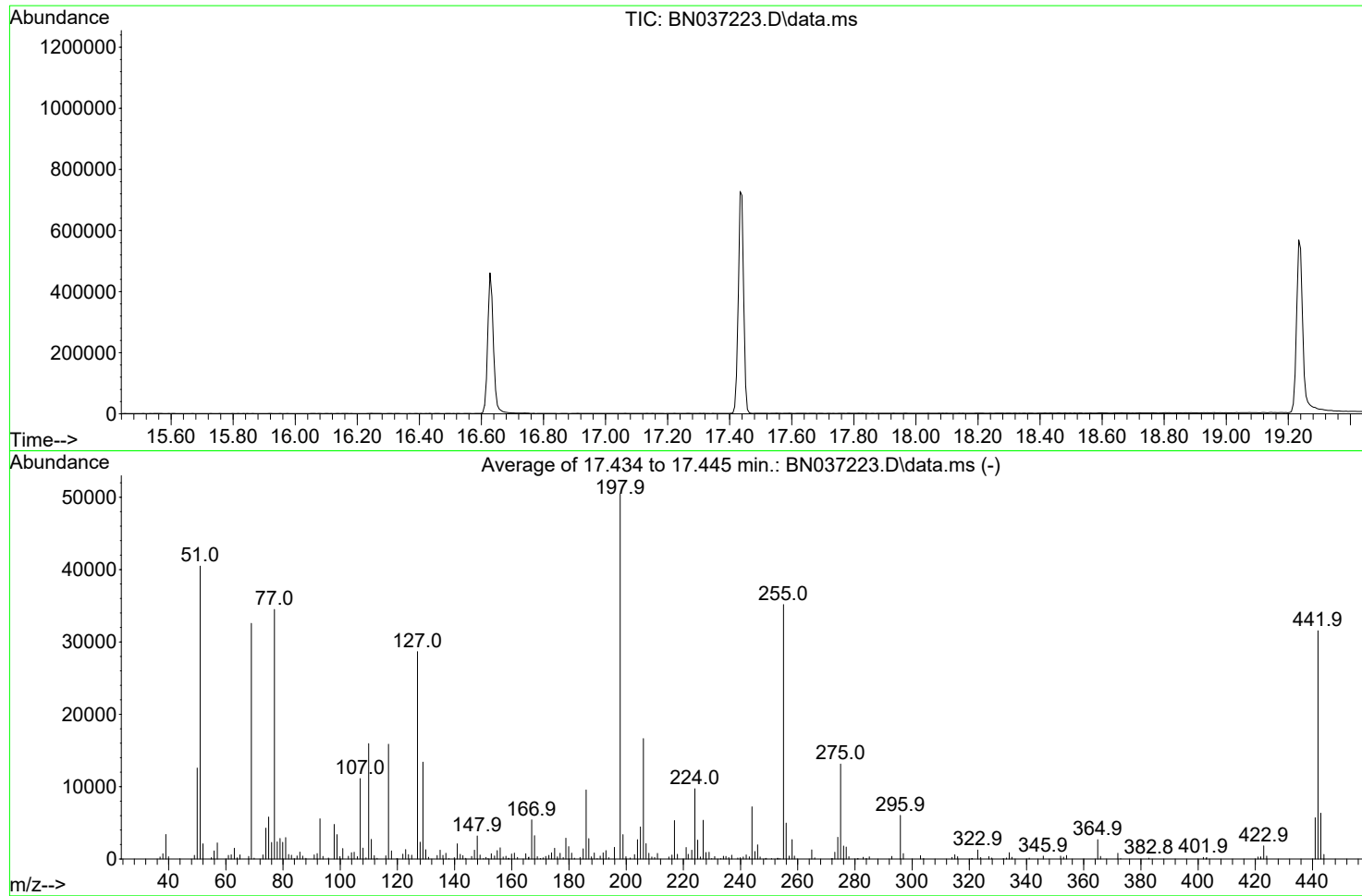
- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15
- 16
- 17
- 18

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037223.D  
Acq On : 13 Jun 2025 11:34  
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\8270E-Tune.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Thu Jun 19 02:50:12 2025



AutoFind: Scans 2473, 2474, 2475; Background Corrected with Scan 2466

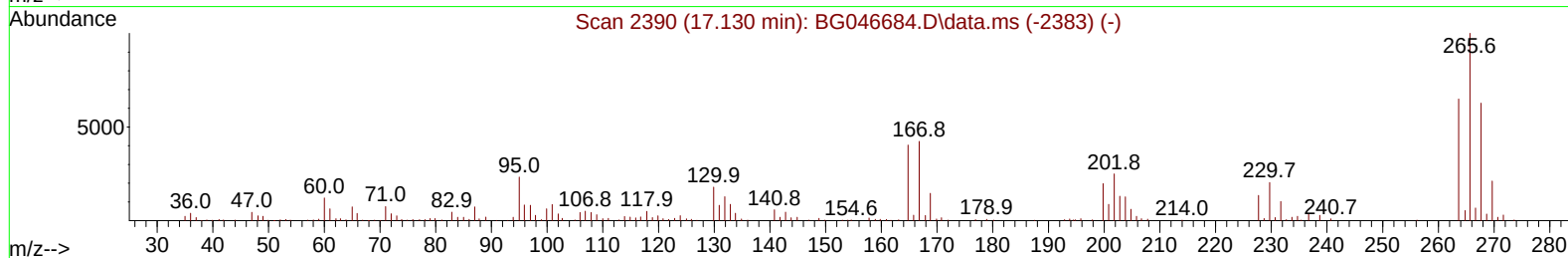
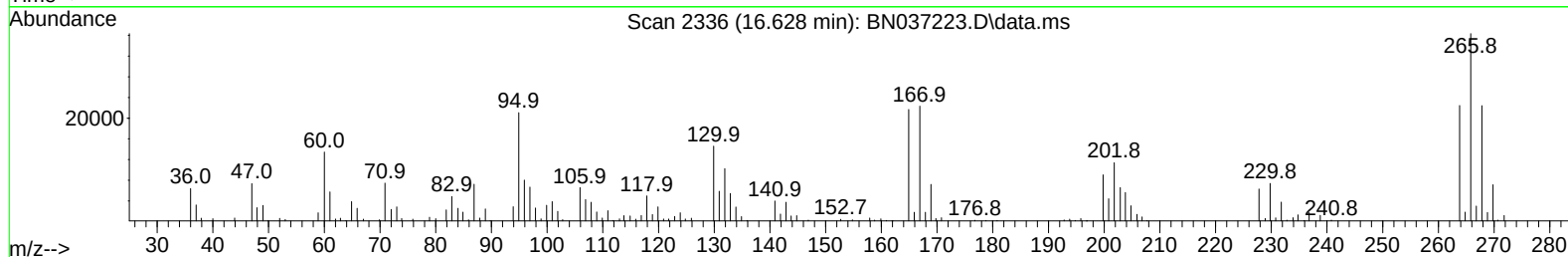
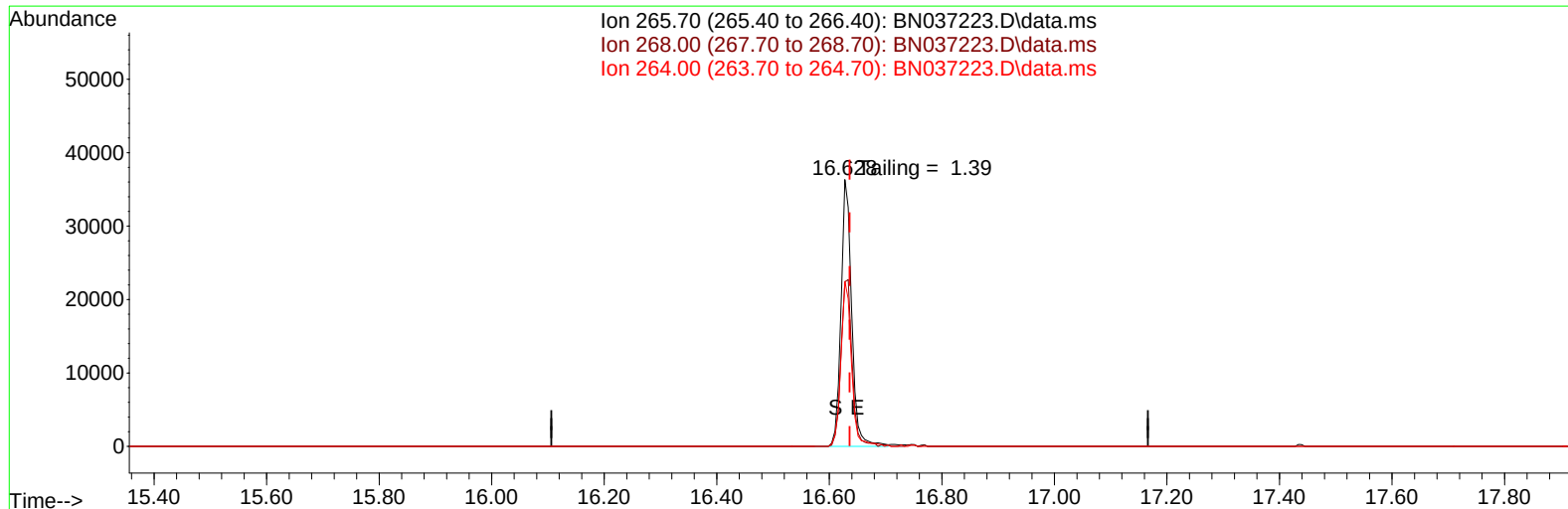
| Target | Rel. to | Lower  | Upper  | Rel.  | Raw   | Result    |
|--------|---------|--------|--------|-------|-------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn   | Pass/Fail |
| 68     | 69      | 0.00   | 2      | 1.1   | 362   | PASS      |
| 69     | 69      | 100    | 100    | 100.0 | 32573 | PASS      |
| 70     | 69      | 0.00   | 2      | 0.4   | 132   | PASS      |
| 197    | 198     | 0.00   | 2      | 0.0   | 0     | PASS      |
| 198    | 198     | 100    | 100    | 100.0 | 50453 | PASS      |
| 199    | 198     | 5      | 9      | 6.7   | 3367  | PASS      |
| 365    | 198     | 1      | 100    | 5.3   | 2675  | PASS      |
| 441    | 443     | 0.01   | 150    | 90.1  | 5714  | PASS      |
| 442    | 442     | 100    | 100    | 100.0 | 31557 | PASS      |
| 443    | 442     | 15     | 24     | 20.1  | 6344  | PASS      |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037223.D  
Acq On : 13 Jun 2025 11:34  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Jun 13 18:35:45 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 10 06:01:37 2025  
Response via : Initial Calibration



TIC: BN037223.D\data.ms

**(70) Pentachlorophenol (C)**

16.628min (-0.008) 13765.31 ng

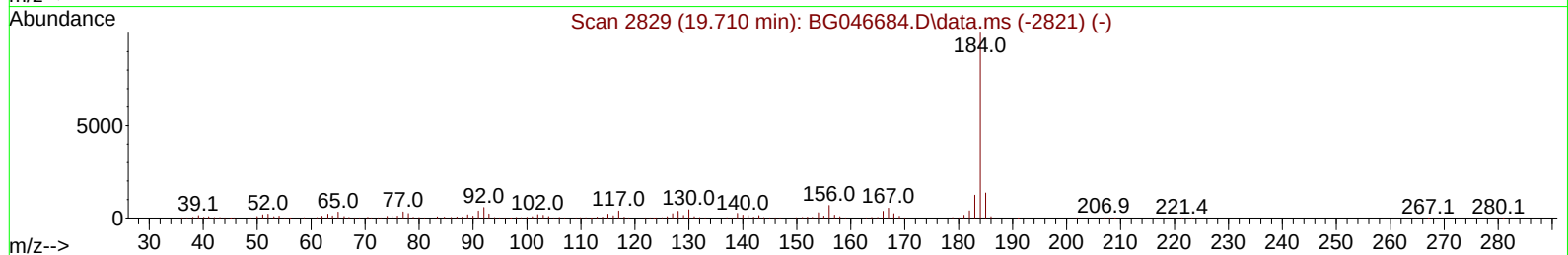
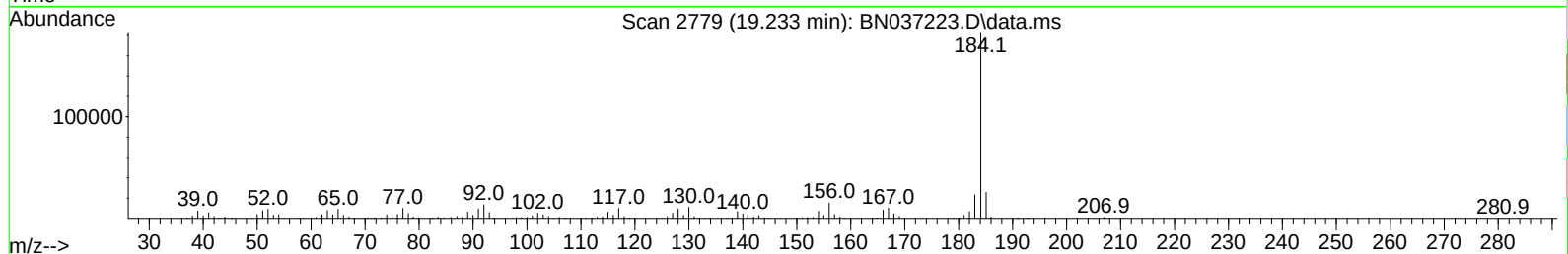
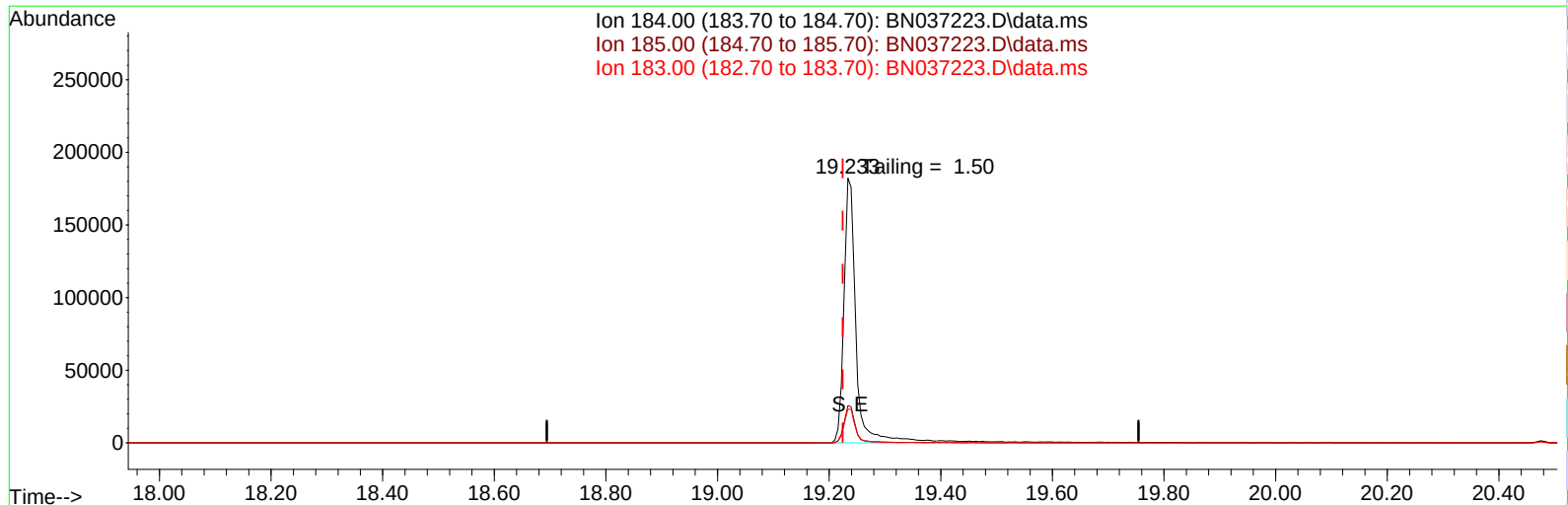
response 48504

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 61.73  |
| 264.00 | 61.60  | 61.82  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037223.D  
Acq On : 13 Jun 2025 11:34  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 1 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Jun 13 18:35:45 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Tue Jun 10 06:01:37 2025  
Response via : Initial Calibration



TIC: BN037223.D\data.ms

**(77) Benzidine**

19.233min (+ 0.009) 0.00 ng

response 272616

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 14.12  |
| 183.00 | 13.20  | 12.75  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

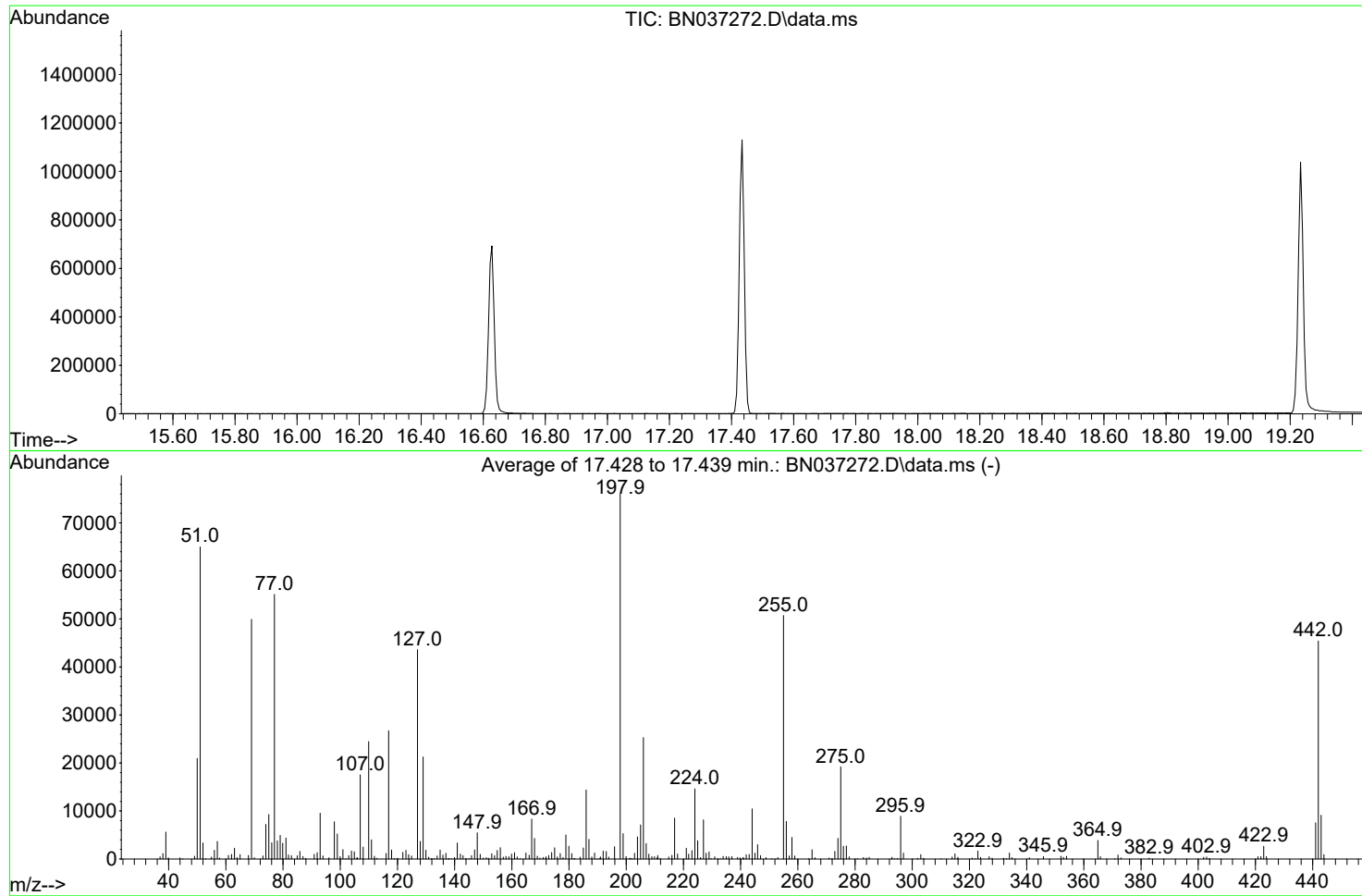
| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 6/13/2025     | BNA_N            | <u>BN037223.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 179828           | 20.475             |
| DDD           | 1789             | 20.086             |
| DDE           | 62               | 19.528             |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 1851          | 181679           | 1.02               |
|               |                  |                    |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037272.D  
Acq On : 14 Jun 2025 21:51  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Integration File: rteint.p

Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
Last Update : Thu Jun 19 02:50:12 2025



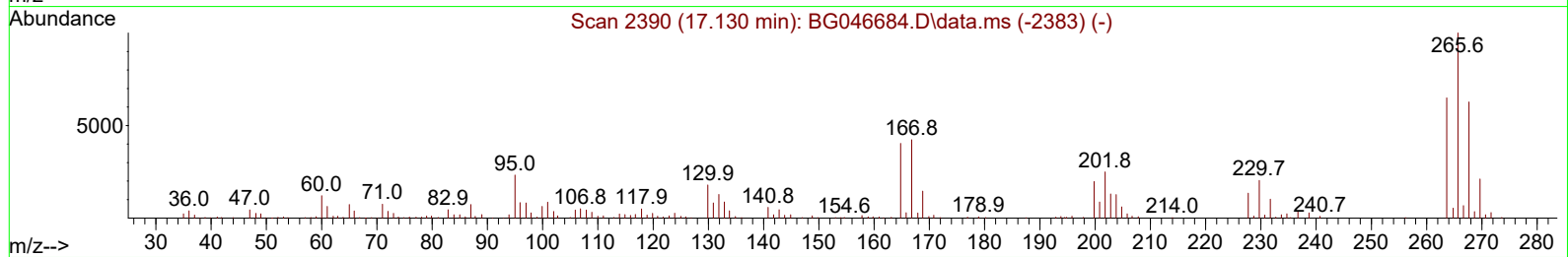
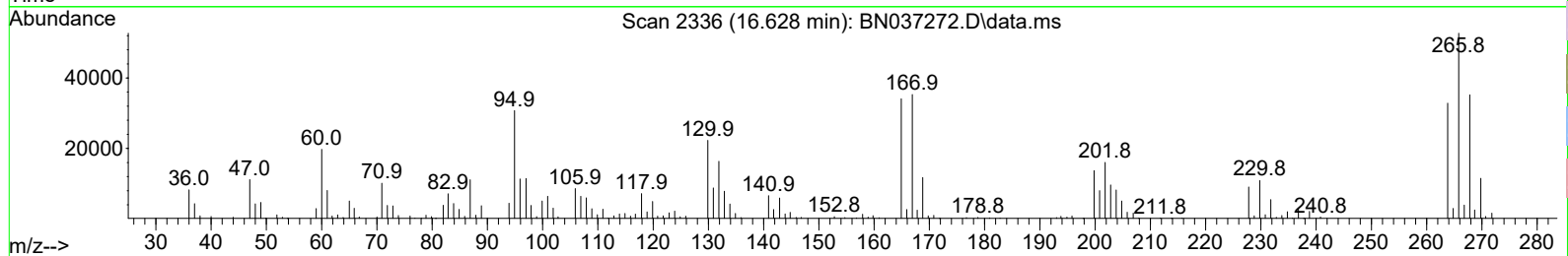
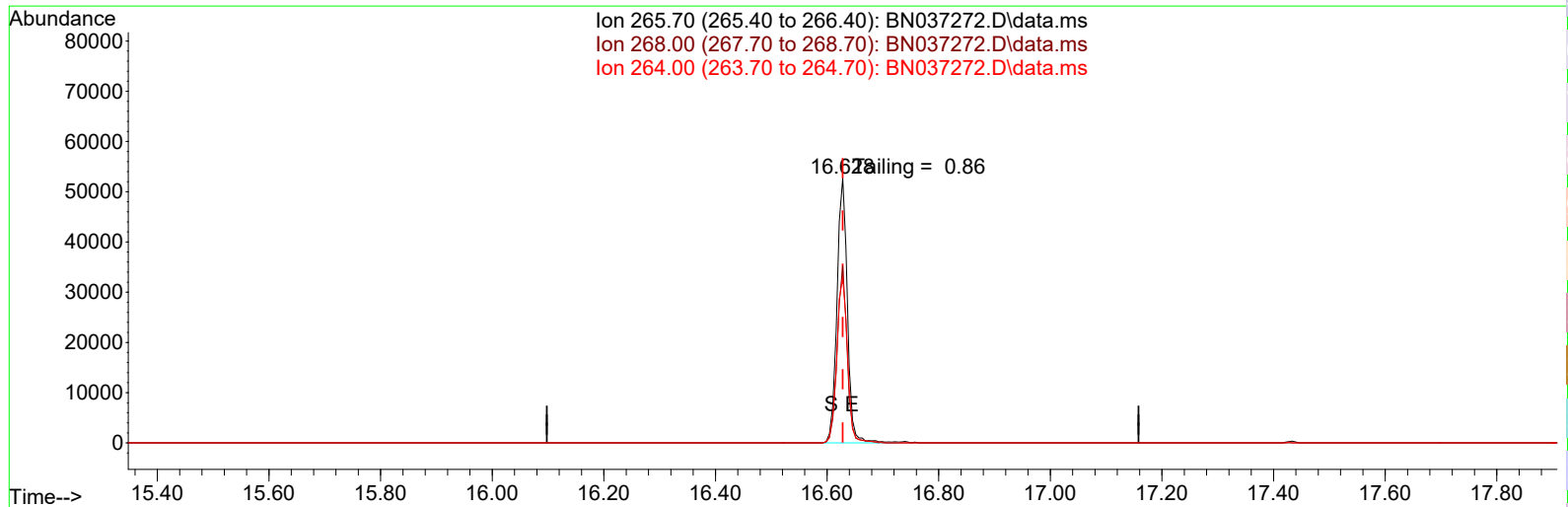
AutoFind: Scans 2472, 2473, 2474; Background Corrected with Scan 2466

| Target | Rel. to | Lower  | Upper  | Rel.  | Raw   | Result    |
|--------|---------|--------|--------|-------|-------|-----------|
| Mass   | Mass    | Limit% | Limit% | Abn%  | Abn   | Pass/Fail |
| 68     | 69      | 0.00   | 2      | 1.5   | 741   | PASS      |
| 69     | 69      | 100    | 100    | 100.0 | 49899 | PASS      |
| 70     | 69      | 0.00   | 2      | 0.6   | 291   | PASS      |
| 197    | 198     | 0.00   | 2      | 0.0   | 0     | PASS      |
| 198    | 198     | 100    | 100    | 100.0 | 76024 | PASS      |
| 199    | 198     | 5      | 9      | 7.0   | 5292  | PASS      |
| 365    | 198     | 1      | 100    | 5.1   | 3876  | PASS      |
| 441    | 443     | 0.01   | 150    | 82.8  | 7543  | PASS      |
| 442    | 442     | 100    | 100    | 100.0 | 45411 | PASS      |
| 443    | 442     | 15     | 24     | 20.1  | 9108  | PASS      |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037272.D  
Acq On : 14 Jun 2025 21:51  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Jun 16 03:00:33 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 16 03:00:26 2025  
Response via : Initial Calibration



TIC: BN037272.D\data.ms

**(70) Pentachlorophenol (C)**

16.628min ( 0.000) 15244.65 ng

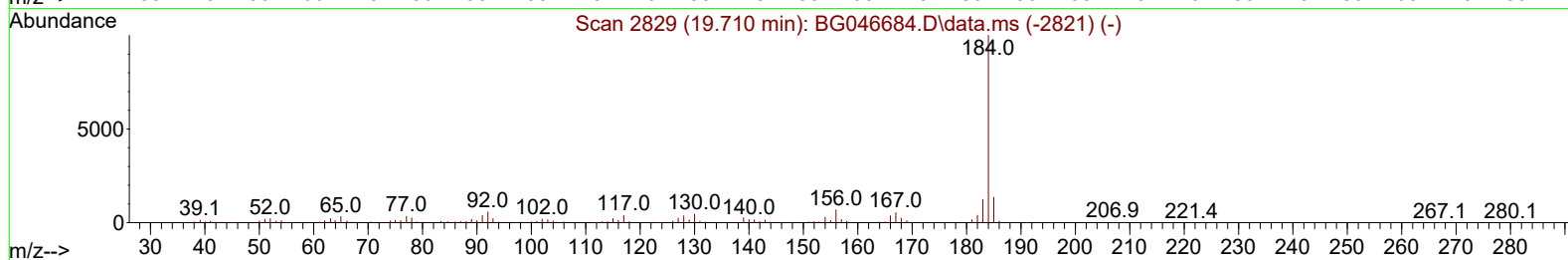
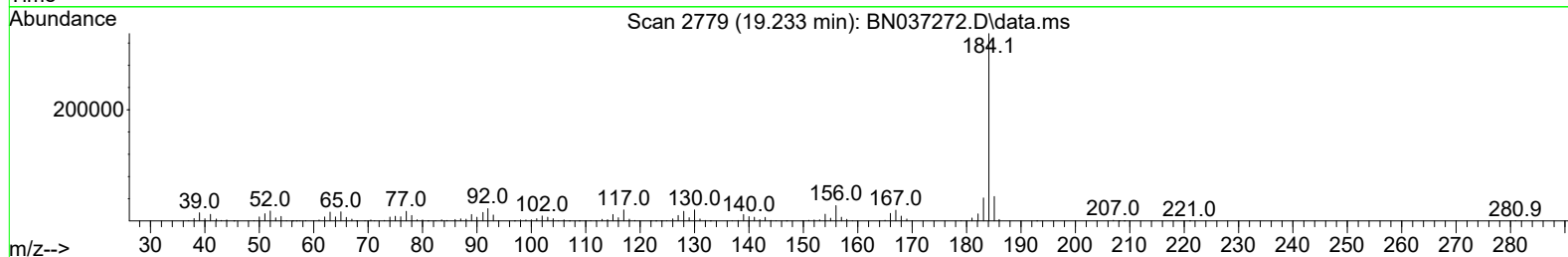
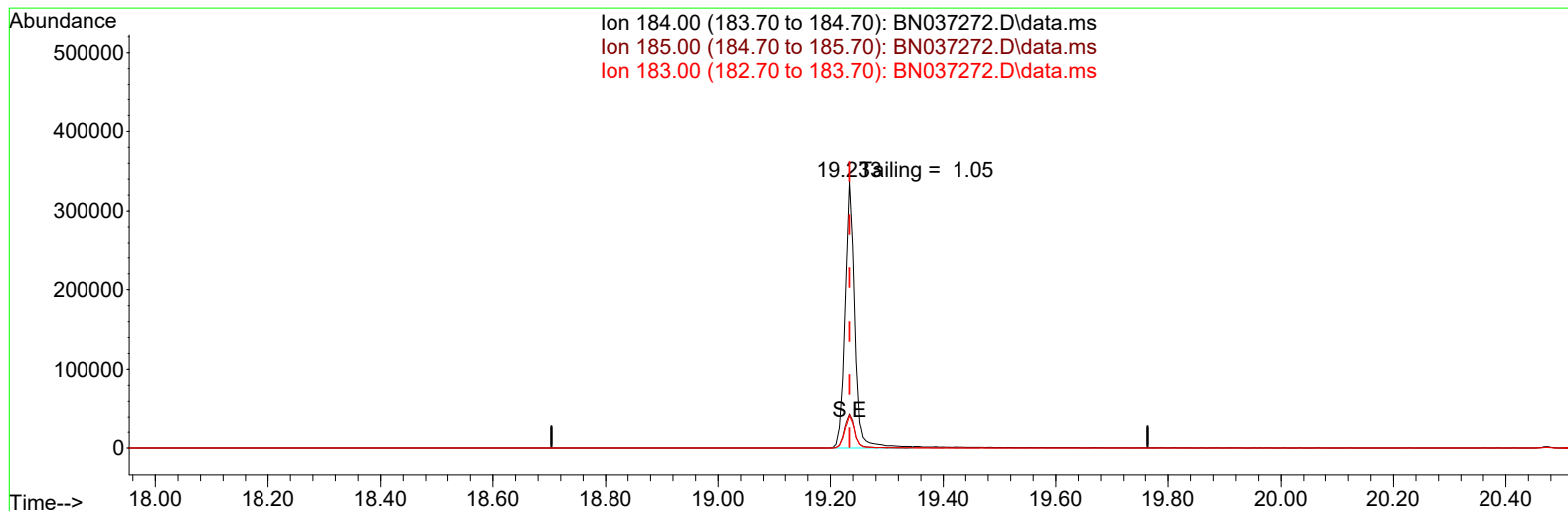
response 68073

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 265.70 | 100.00 | 100.00 |
| 268.00 | 62.20  | 71.57  |
| 264.00 | 61.60  | 62.32  |
| 0.00   | 0.00   | 0.00   |

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037272.D  
Acq On : 14 Jun 2025 21:51  
Operator : RC/JU  
Sample : DFTPP  
Misc :  
ALS Vial : 51 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

Quant Time: Jun 16 03:00:33 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270E-Tune.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Mon Jun 16 03:00:26 2025  
Response via : Initial Calibration



TIC: BN037272.D\data.ms

**(77) Benzidine**

19.233min ( 0.000) 0.00 ng

response 404622

| Ion    | Exp%   | Act%   |
|--------|--------|--------|
| 184.00 | 100.00 | 100.00 |
| 185.00 | 15.50  | 13.08  |
| 183.00 | 13.20  | 12.35  |
| 0.00   | 0.00   | 0.00   |

Instrument :  
BNA\_N  
ClientSampleId :  
DFTPP

DDT Breakdown

| Date          | Instrument Name  | DFTPP Data File    |
|---------------|------------------|--------------------|
| 6/13/2025     | BNA_N            | <u>BN037272.D</u>  |
|               |                  |                    |
|               |                  |                    |
| Compound Name | Response         | Retention Time     |
|               |                  |                    |
| DDT           | 228732           | 20.475             |
| DDD           | 3511             | 20.033             |
| DDE           | 0                | 0                  |
|               |                  |                    |
|               |                  |                    |
| SUM(DDD+DDE)  | SUM(DDT+DDD+DDE) | % Breakdown Of DDT |
|               |                  |                    |
| 3511          | 232243           | 1.51               |
|               |                  |                    |

## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  |                |
| Client Sample ID:  | PB168476BL                    | SDG No.:        | Q2316          |
| Lab Sample ID:     | PB168476BL                    | 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 |
| BN037274.D        | 1         | 06/13/25 11:00 | 06/14/25 23:07 | PB168476      |

| 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 |      | 83%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.36  |           | 30 - 150 |      | 90%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.29  |           | 55 - 111 |      | 74%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.34  |           | 53 - 106 |      | 84%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.38  |           | 58 - 132 |      | 95%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1110  | 7.575     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 2540  | 10.361    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 1350  | 14.224    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 2240  | 16.984    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 1650  | 21.171    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 1590  | 23.357    |          |      |            |          |

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\BN061325\  
Data File : BN037274.D  
Acq On : 14 Jun 2025 23:07  
Operator : RC/JU  
Sample : PB168476BL  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BL

Quant Time: Jun 16 02:46:04 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 2025  
Response via : Initial Calibration

| Compound                    | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-----------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards          |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4   | 7.575  | 152  | 1111     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8           | 10.361 | 136  | 2537     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10        | 14.224 | 164  | 1345     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10        | 16.984 | 188  | 2242     | 0.400 | ng    | 0.01     |
| 29) Chrysene-d12            | 21.171 | 240  | 1645     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12            | 23.357 | 264  | 1590     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds |        |      |          |       |       |          |
| 4) 2-Fluorophenol           | 5.177  | 112  | 979      | 0.359 | ng    | 0.00     |
| 5) Phenol-d6                | 6.759  | 99   | 862      | 0.300 | ng    | 0.00     |
| 8) Nitrobenzene-d5          | 8.749  | 82   | 737      | 0.294 | ng    | 0.02     |
| 11) 2-Methylnaphthalene-d10 | 11.965 | 152  | 1137     | 0.334 | ng    | 0.01     |
| 14) 2,4,6-Tribromophenol    | 15.742 | 330  | 182      | 0.326 | ng    | 0.01     |
| 15) 2-Fluorobiphenyl        | 12.858 | 172  | 1901     | 0.336 | ng    | 0.01     |
| 27) Fluoranthene-d10        | 19.017 | 212  | 2116     | 0.361 | ng    | 0.00     |
| 31) Terphenyl-d14           | 19.625 | 244  | 1410     | 0.379 | ng    | 0.00     |

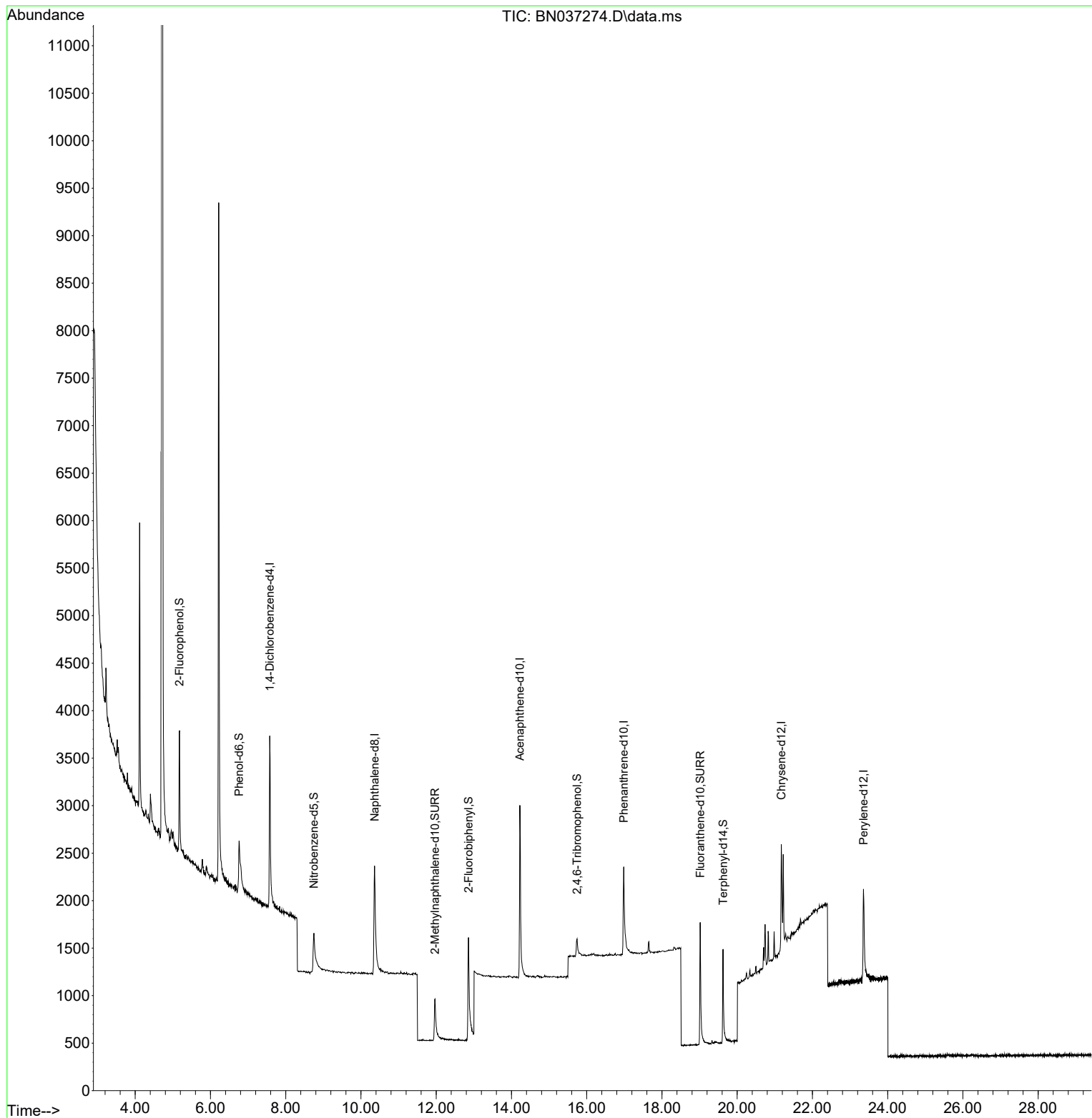
| Target Compounds | Qvalue |
|------------------|--------|
|------------------|--------|

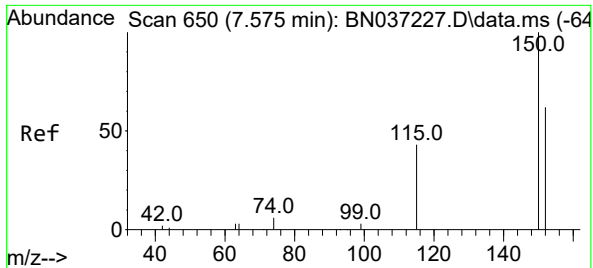
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037274.D  
Acq On : 14 Jun 2025 23:07  
Operator : RC/JU  
Sample : PB168476BL  
Misc :  
ALS Vial : 53 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BL

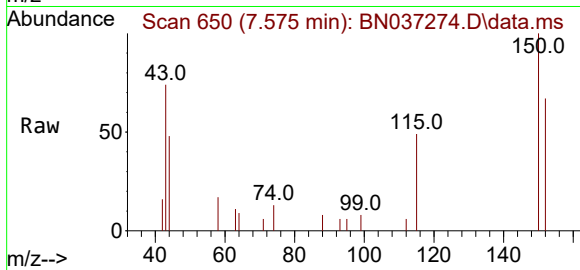
Quant Time: Jun 16 02:46:04 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 2025  
Response via : Initial Calibration



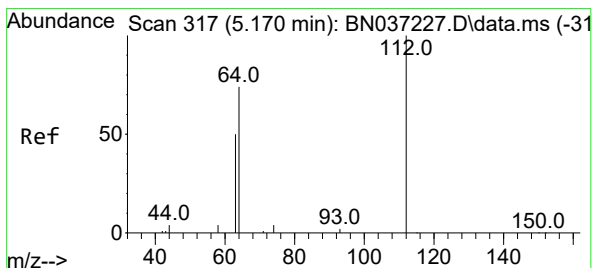
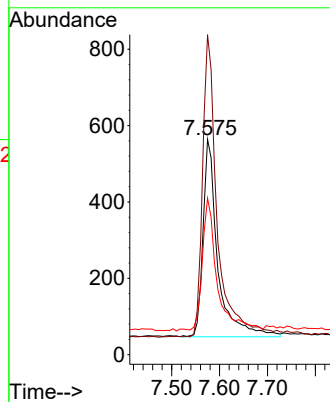
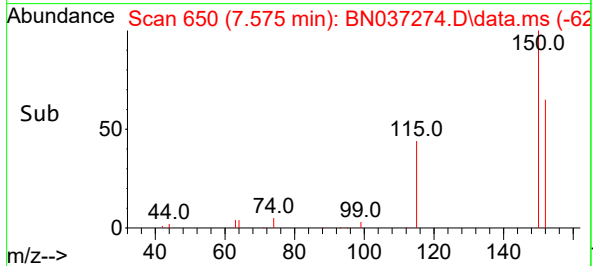


#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

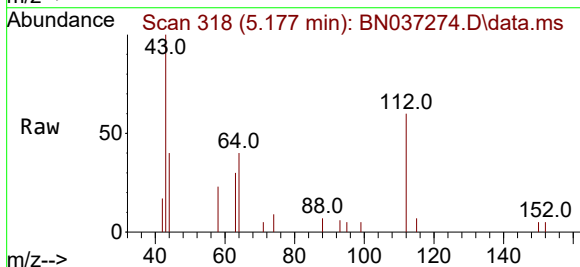
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BL



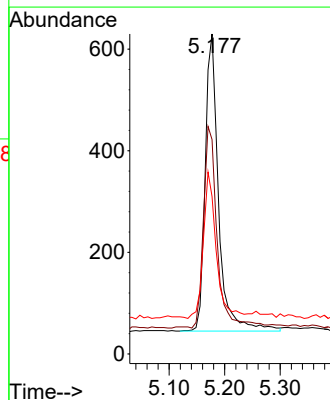
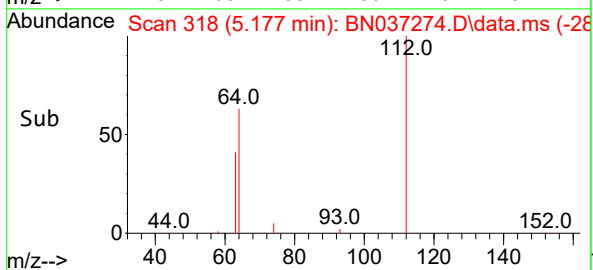
Tgt Ion:152 Resp: 1111  
Ion Ratio Lower Upper  
152 100  
150 148.6 125.2 187.8  
115 72.7 58.4 87.6

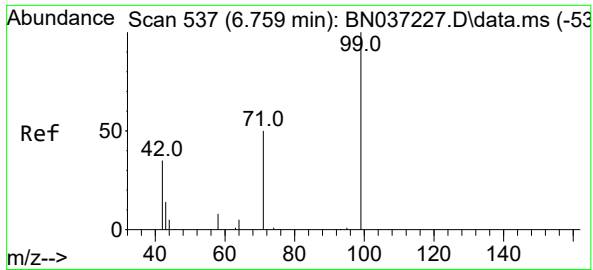


#4  
2-Fluorophenol  
Concen: 0.359 ng  
RT: 5.177 min Scan# 318  
Delta R.T. 0.007 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07



Tgt Ion:112 Resp: 979  
Ion Ratio Lower Upper  
112 100  
64 68.0 57.2 85.8  
63 47.5 39.8 59.6

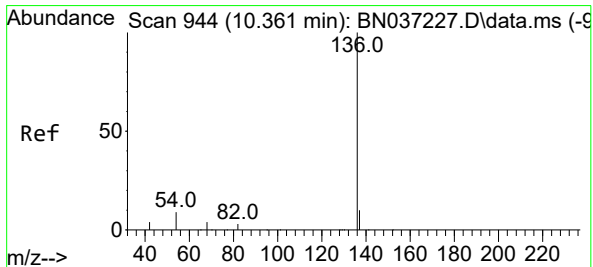
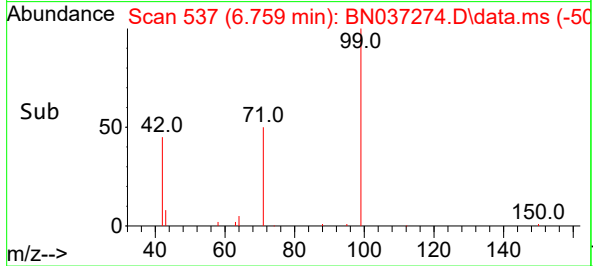
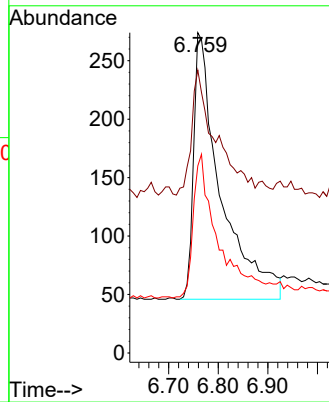
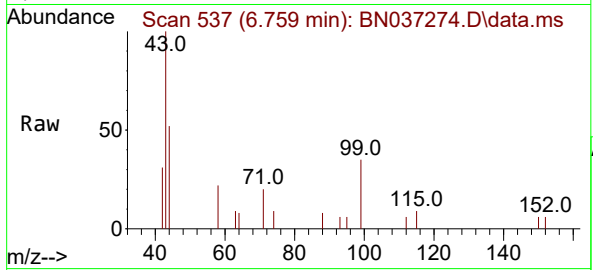




#5  
Phenol-d6  
Concen: 0.300 ng  
RT: 6.759 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

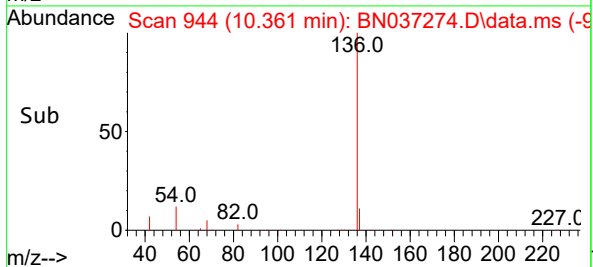
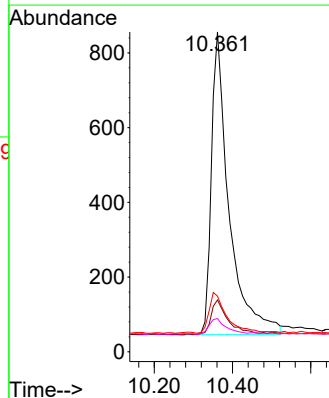
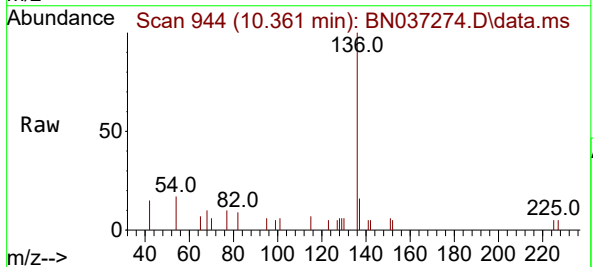
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BL

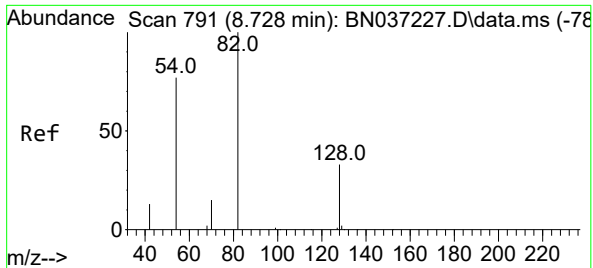
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 42.6  | 36.2  | 54.4  |
| 71      | 52.8  | 42.4  | 63.6  |



#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.361 min Scan# 944  
Delta R.T. 0.000 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 136     | 100   |       |       |
| 137     | 16.2  | 10.6  | 15.8# |
| 54      | 17.4  | 9.2   | 13.8# |
| 68      | 10.4  | 5.4   | 8.0#  |

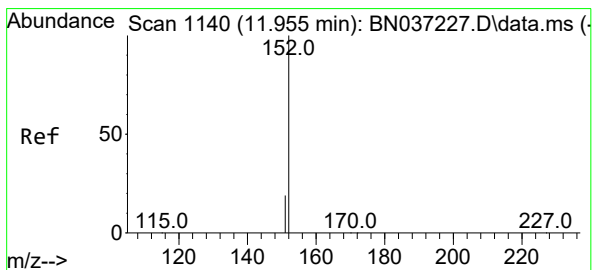
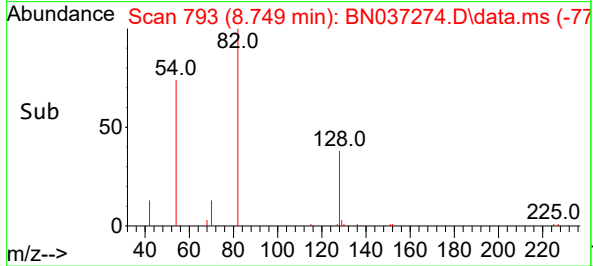
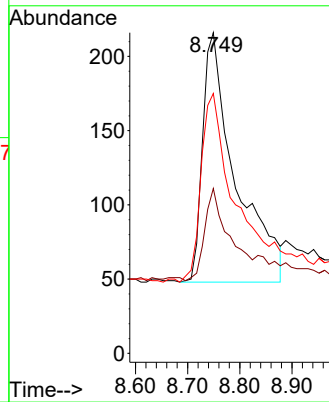
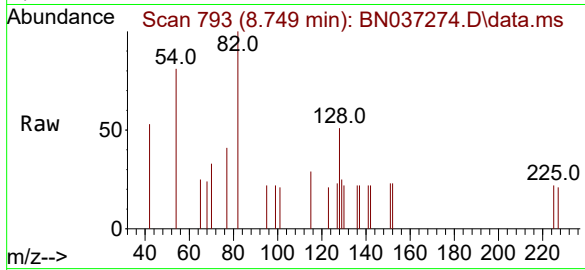




#8  
Nitrobenzene-d5  
Concen: 0.294 ng  
RT: 8.749 min Scan# 791  
Delta R.T. 0.021 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

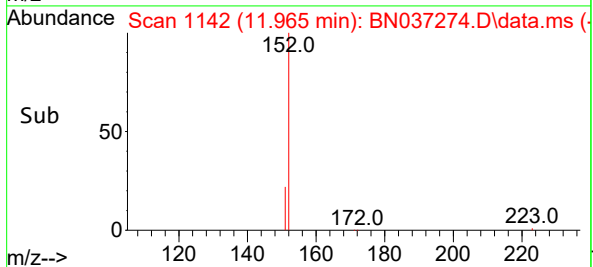
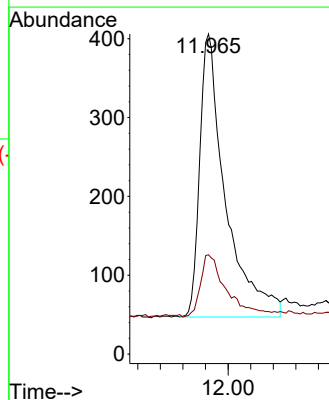
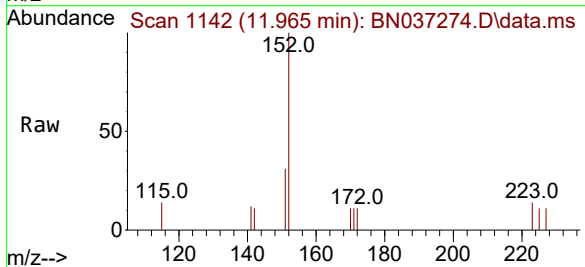
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BL

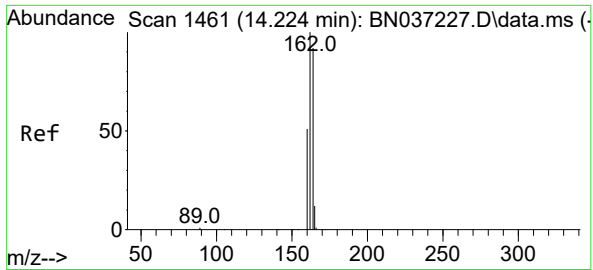
| Tgt Ion: | 82    | Resp: | 737   |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 51.4  | 31.2  | 46.8# |
| 54       | 81.0  | 63.3  | 94.9  |



#11  
2-Methylnaphthalene-d10  
Concen: 0.334 ng  
RT: 11.965 min Scan# 1142  
Delta R.T. 0.010 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

| Tgt Ion: | 152   | Resp: | 1137  |
|----------|-------|-------|-------|
| Ion      | Ratio | Lower | Upper |
| 152      | 100   |       |       |
| 151      | 22.5  | 17.9  | 26.9  |

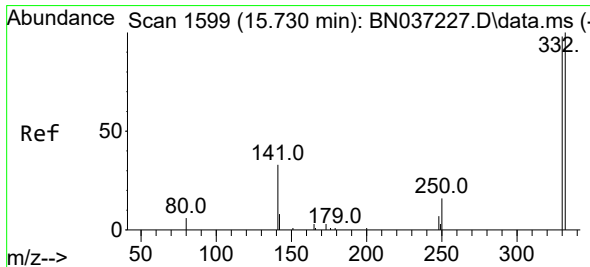
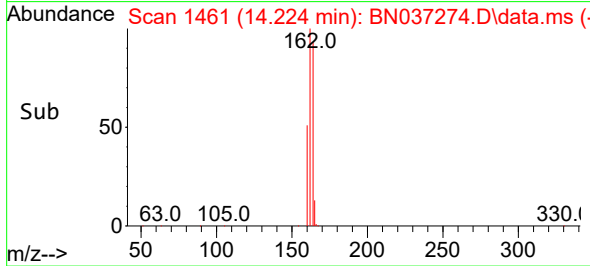
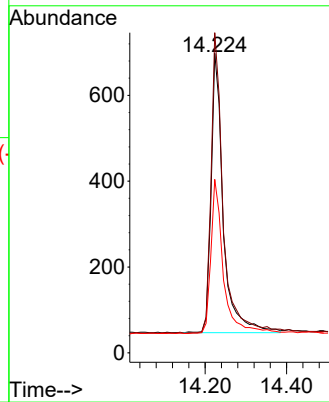
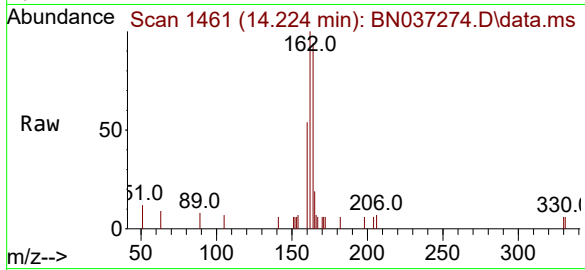




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.224 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

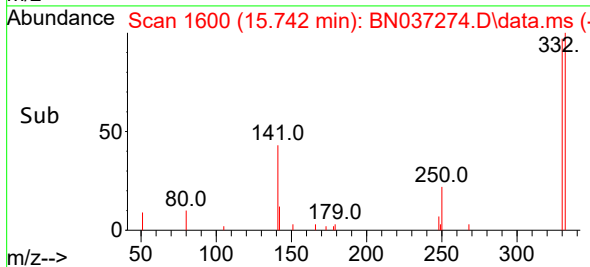
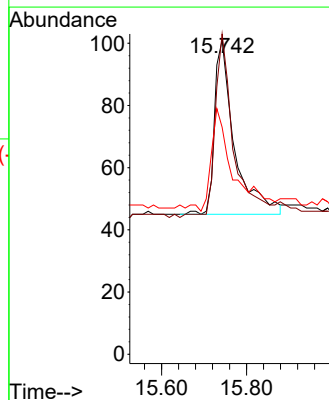
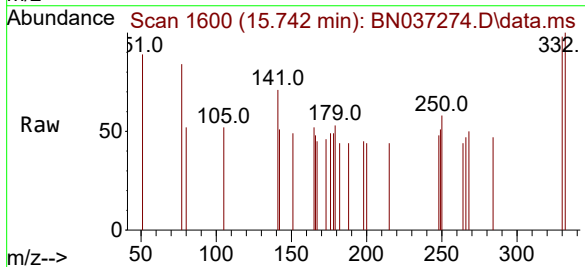
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BL

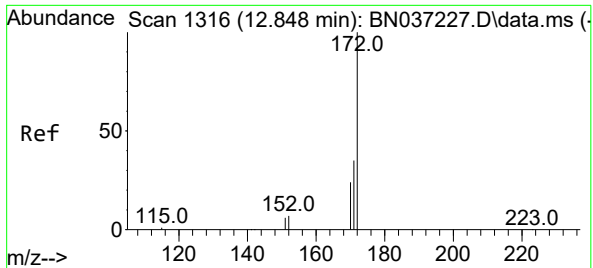
Tgt Ion:164 Resp: 1345  
Ion Ratio Lower Upper  
164 100  
162 106.9 86.7 130.1  
160 57.9 45.8 68.6



#14  
2,4,6-Tribromophenol  
Concen: 0.326 ng  
RT: 15.742 min Scan# 1600  
Delta R.T. 0.012 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

Tgt Ion:330 Resp: 182  
Ion Ratio Lower Upper  
330 100  
332 92.3 74.9 112.3  
141 59.9 45.1 67.7

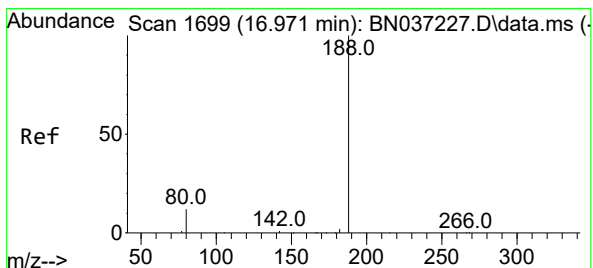
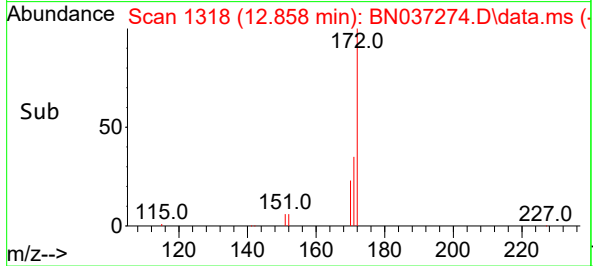
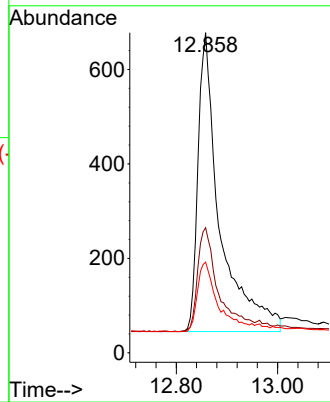
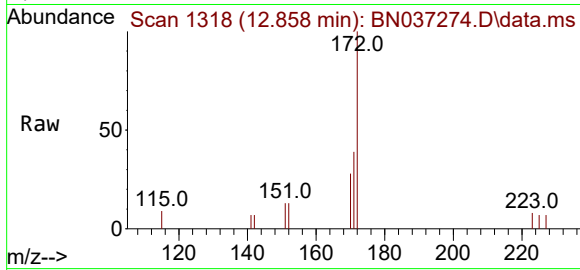




#15  
2-Fluorobiphenyl  
Concen: 0.336 ng  
RT: 12.858 min Scan# 11  
Delta R.T. 0.010 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

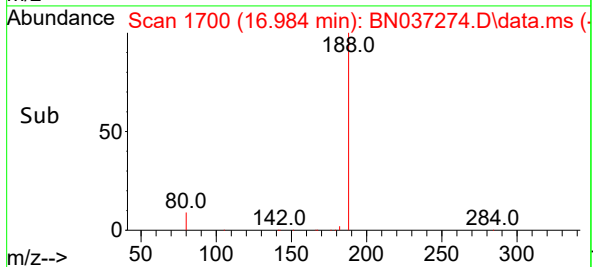
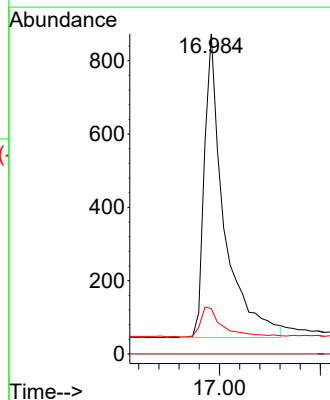
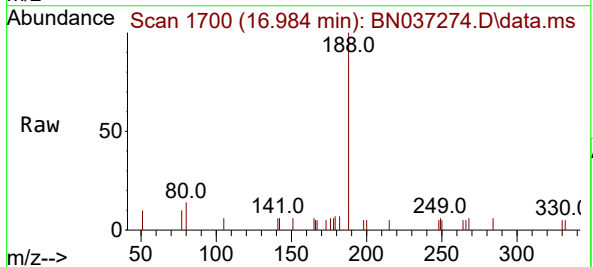
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BL

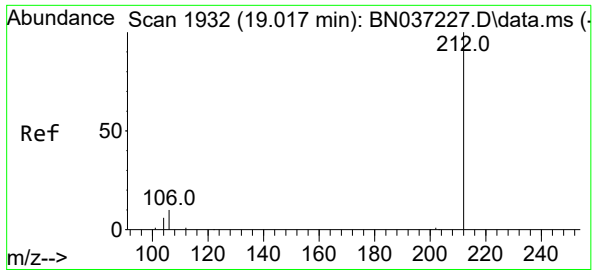
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 1901      |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 39.1  | 29.8 44.8 |
| 170         | 28.3  | 21.1 31.7 |



#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.984 min Scan# 1700  
Delta R.T. 0.012 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:188 | Resp: | 2242      |
| Ion Ratio   | Lower | Upper     |
| 188         | 100   |           |
| 94          | 0.0   | 0.0 0.0   |
| 80          | 14.2  | 12.2 18.4 |

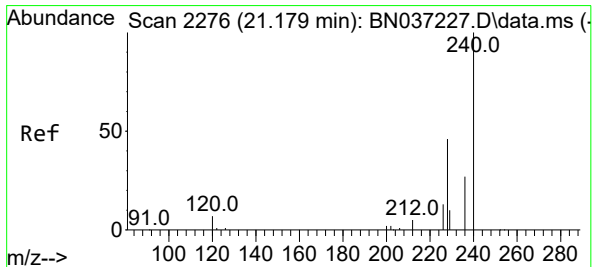
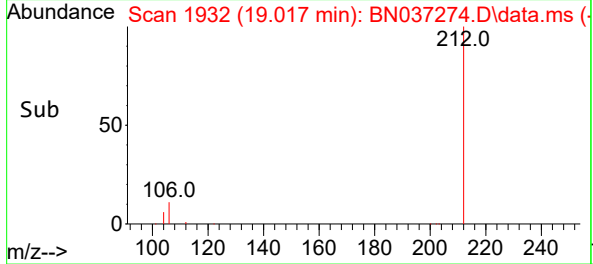
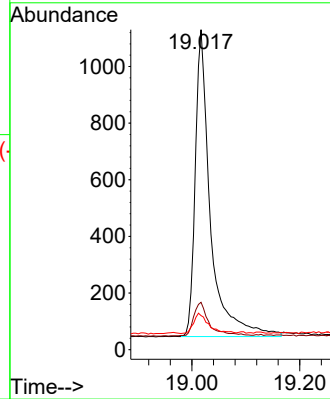
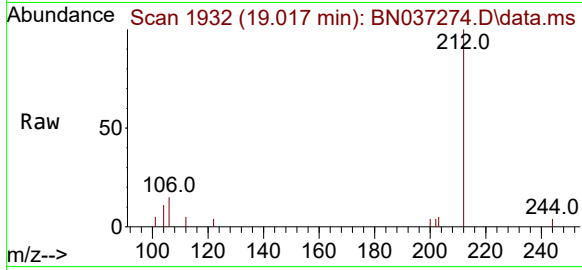




#27  
Fluoranthene-d10  
Concen: 0.361 ng  
RT: 19.017 min Scan# 1932  
Delta R.T. 0.000 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

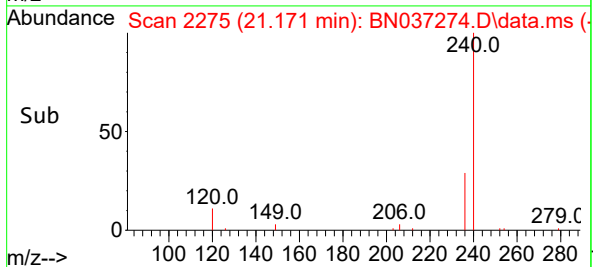
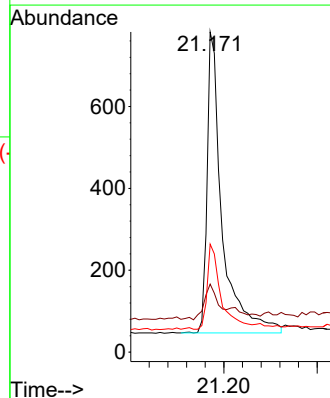
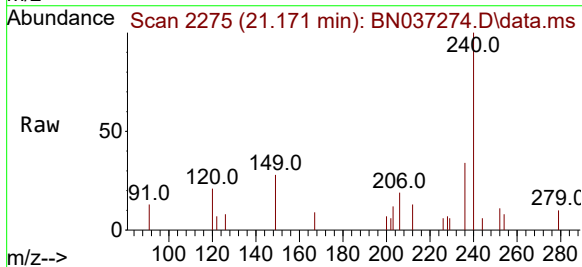
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BL

Tgt Ion:212 Resp: 2116  
Ion Ratio Lower Upper  
212 100  
106 11.4 9.3 13.9  
104 6.6 5.7 8.5

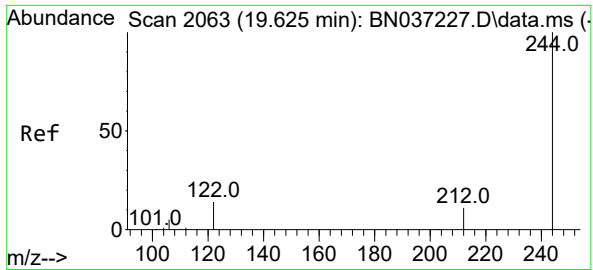


#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.171 min Scan# 2275  
Delta R.T. -0.009 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

Tgt Ion:240 Resp: 1645  
Ion Ratio Lower Upper  
240 100  
120 21.2 11.3 16.9#  
236 33.8 24.4 36.6



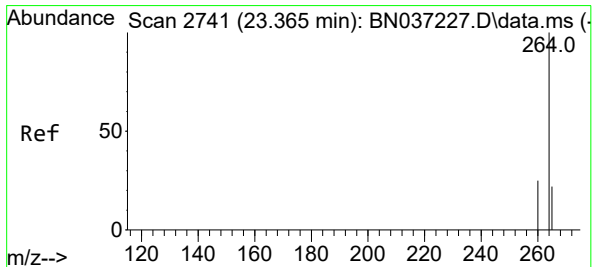
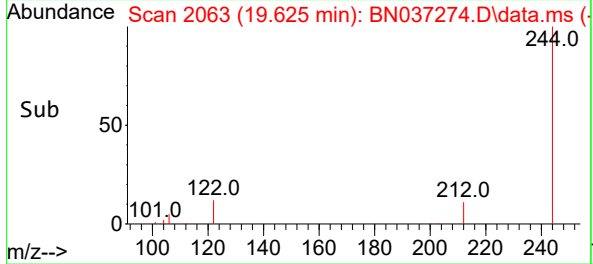
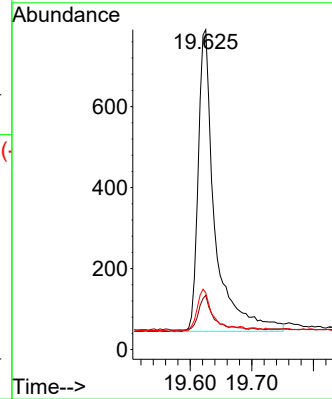
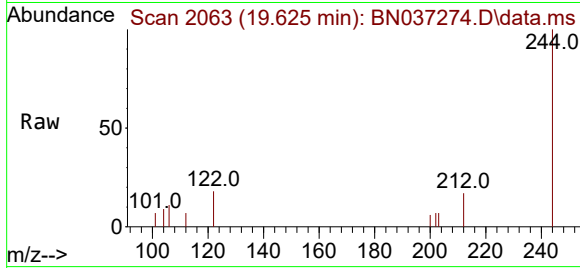




#31  
Terphenyl-d14  
Concen: 0.379 ng  
RT: 19.625 min Scan# 2063  
Delta R.T. 0.000 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

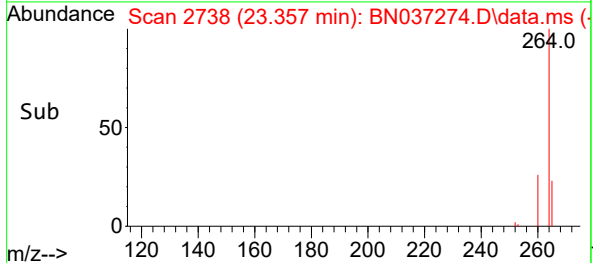
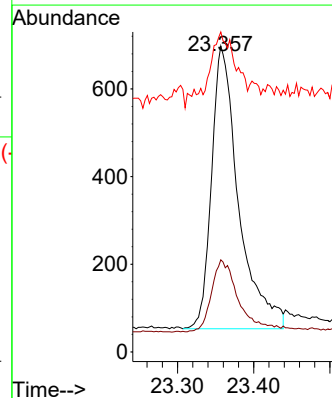
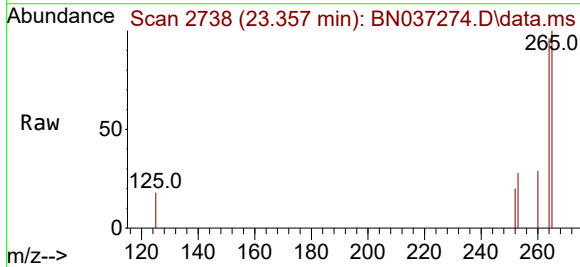
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BL

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 244     | 100   |       |       |
| 212     | 17.0  | 12.2  | 18.2  |
| 122     | 17.7  | 14.3  | 21.5  |



#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.357 min Scan# 2738  
Delta R.T. -0.009 min  
Lab File: BN037274.D  
Acq: 14 Jun 2025 23:07

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 264     | 100   |       |       |
| 260     | 30.1  | 22.8  | 34.2  |
| 265     | 104.6 | 66.4  | 99.6  |



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  |                |
| Client Sample ID:  | PB168476BS                    | SDG No.:        | Q2316          |
| Lab Sample ID:     | PB168476BS                    | 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 |
| BN037280.D        | 1         | 06/13/25 11:00 | 06/15/25 02:42 | PB168476      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.30  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.43  |           | 30 - 150 |      | 108%       | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.34  |           | 30 - 150 |      | 85%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.38  |           | 55 - 111 |      | 94%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.39  |           | 53 - 106 |      | 97%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.38  |           | 58 - 132 |      | 95%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1100  | 7.575     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 2640  | 10.351    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 1350  | 14.224    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 2250  | 16.971    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 1530  | 21.171    |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 1220  | 23.357    |          |      |            |          |

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\BN061325\  
 Data File : BN037280.D  
 Acq On : 15 Jun 2025 02:42  
 Operator : RC/JU  
 Sample : PB168476BS  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168476BS

Quant Time: Jun 16 02:47:13 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:43:34 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/16/2025  
 Supervised By :Jagrut Upadhyay 06/16/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1101     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.351 | 136  | 2637     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1350     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.971 | 188  | 2251     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.171 | 240  | 1528     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.357 | 264  | 1224     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.177  | 112  | 961      | 0.355 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.759  | 99   | 1013     | 0.355 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.728  | 82   | 979      | 0.376 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.950 | 152  | 1523m    | 0.430 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 198      | 0.353 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.843 | 172  | 2195     | 0.387 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.012 | 212  | 1999     | 0.339 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.621 | 244  | 1313     | 0.380 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.104  | 88   | 447      | 0.296 | ng    | # 1      |
| 3) n-Nitrosodimethylamine     | 3.415  | 42   | 1294     | 0.376 | ng    | # 99     |
| 6) bis(2-Chloroethyl)ether    | 7.012  | 93   | 958      | 0.375 | ng    | 95       |
| 9) Naphthalene                | 10.404 | 128  | 2899     | 0.380 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.693 | 225  | 744      | 0.401 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.026 | 142  | 1579     | 0.340 | ng    | 98       |
| 16) Acenaphthylene            | 13.935 | 152  | 2642     | 0.399 | ng    | 99       |
| 17) Acenaphthene              | 14.288 | 154  | 1561     | 0.366 | ng    | 98       |
| 18) Fluorene                  | 15.282 | 166  | 1981     | 0.361 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.378 | 198  | 205      | 0.463 | ng    | 87       |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 566      | 0.386 | ng    | 89       |
| 22) Hexachlorobenzene         | 16.289 | 284  | 682      | 0.401 | ng    | 98       |
| 23) Atrazine                  | 16.463 | 200  | 212      | 0.162 | ng    | # 81     |
| 24) Pentachlorophenol         | 16.636 | 266  | 600      | 0.720 | ng    | 97       |
| 25) Phenanthrene              | 17.009 | 178  | 2688     | 0.377 | ng    | 99       |
| 26) Anthracene                | 17.108 | 178  | 2516     | 0.385 | ng    | 98       |
| 28) Fluoranthene              | 19.040 | 202  | 2829     | 0.339 | ng    | 99       |
| 30) Pyrene                    | 19.403 | 202  | 2773     | 0.386 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.153 | 228  | 1878     | 0.364 | ng    | 99       |
| 33) Chrysene                  | 21.207 | 228  | 2594     | 0.404 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.099 | 149  | 1471     | 0.383 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.547 | 276  | 2405     | 0.487 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.702 | 252  | 2018     | 0.451 | ng    | 96       |
| 38) Benzo(k)fluoranthene      | 22.746 | 252  | 2286     | 0.442 | ng    | 96       |
| 39) Benzo(a)pyrene            | 23.260 | 252  | 1793     | 0.445 | ng    | 94       |
| 40) Dibenzo(a,h)anthracene    | 25.561 | 278  | 1876     | 0.500 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 26.210 | 276  | 2136     | 0.467 | ng    | 96       |

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

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037280.D  
Acq On : 15 Jun 2025 02:42  
Operator : RC/JU  
Sample : PB168476BS  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

## Instrument :

BNA\_N

## ClientSampleId :

PB168476BS

## Manual Integrations

## APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

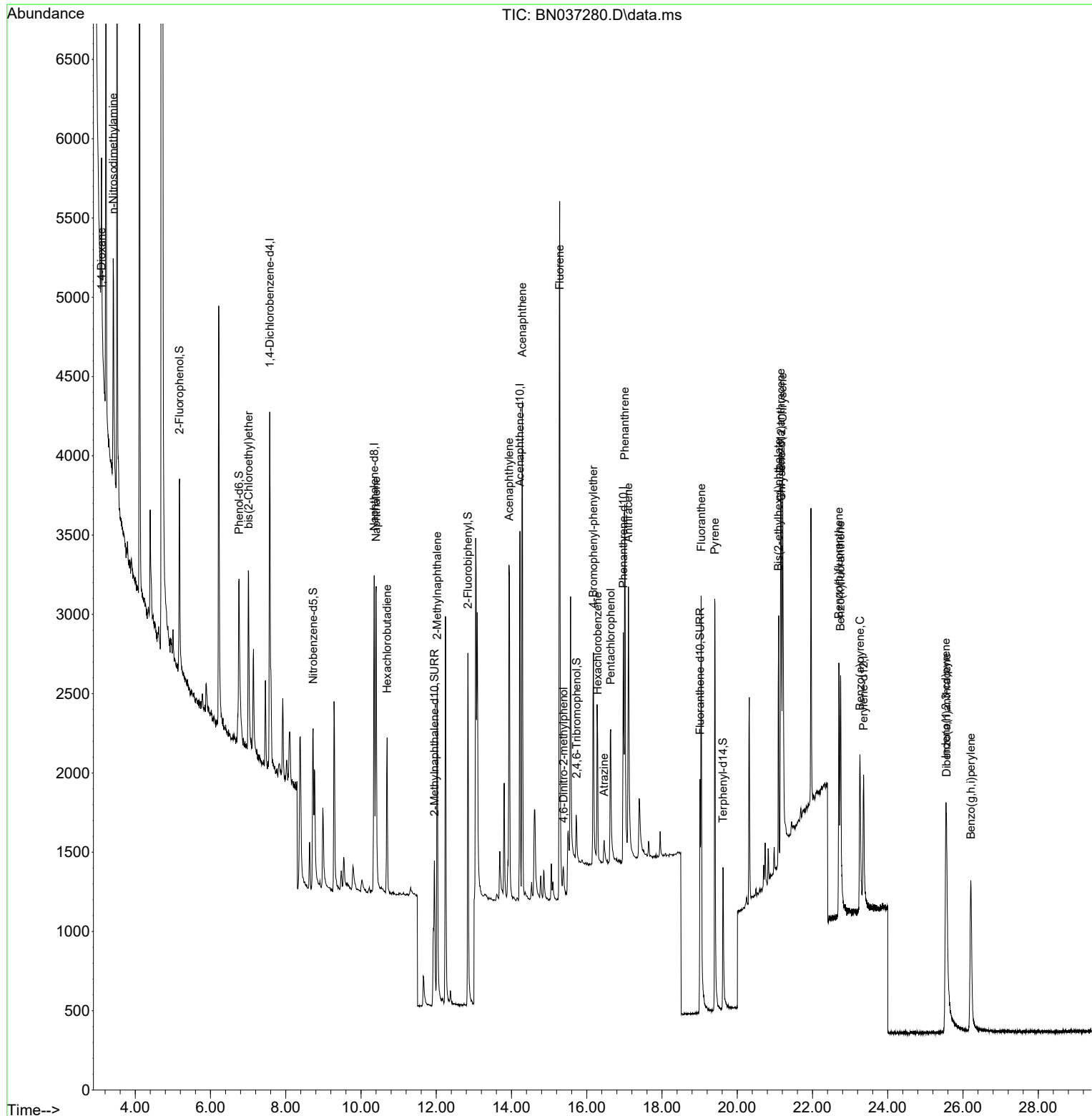
Quant Time: Jun 16 02:47:13 2025

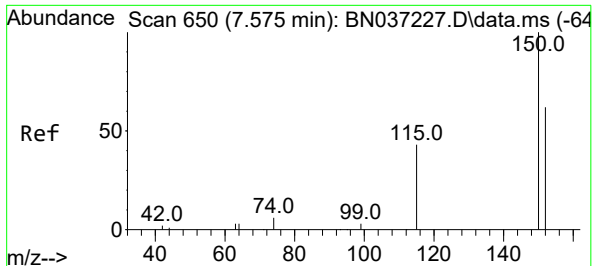
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M

Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION

QLast Update : Fri Jun 13 18:43:34 2025

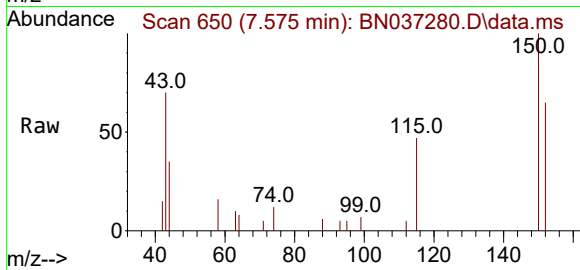
Response via : Initial Calibration





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

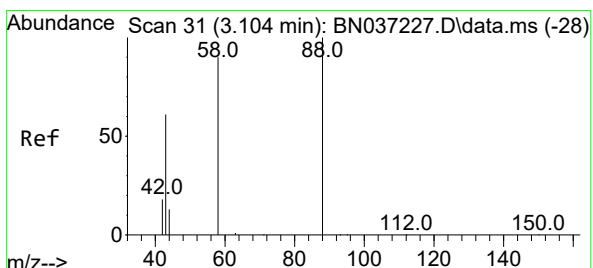
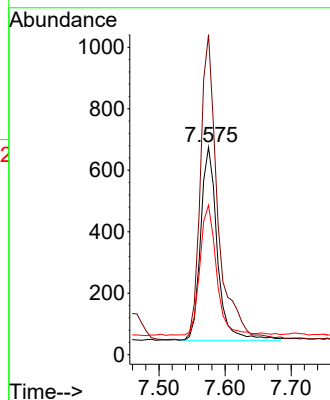
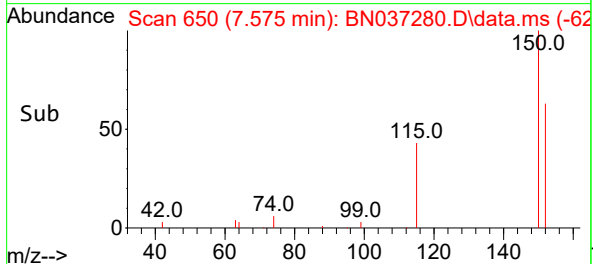
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS



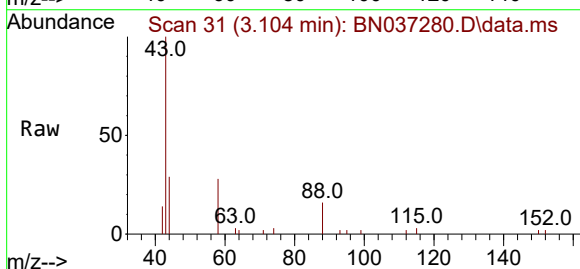
Tgt Ion: 152 Resp: 110  
Ion Ratio Lower Upper  
152 100  
150 154.2 125.2 187.8  
115 72.1 58.4 87.6

Manual Integrations  
APPROVED

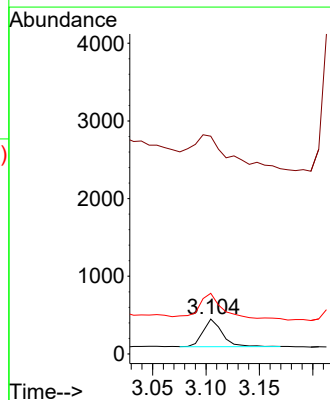
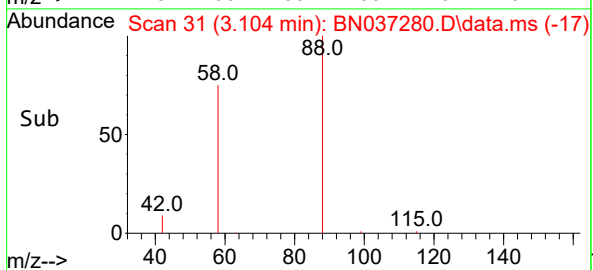
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



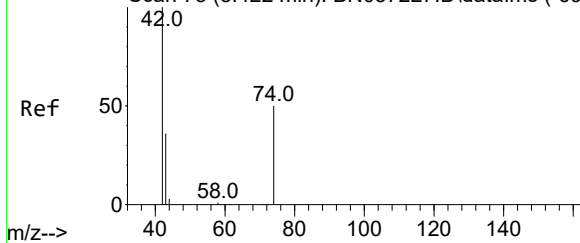
#2  
1,4-Dioxane  
Concen: 0.296 ng  
RT: 3.104 min Scan# 31  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42



Tgt Ion: 88 Resp: 447  
Ion Ratio Lower Upper  
88 100  
43 243.8 52.6 79.0#  
58 133.8 73.5 110.3#



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.376 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

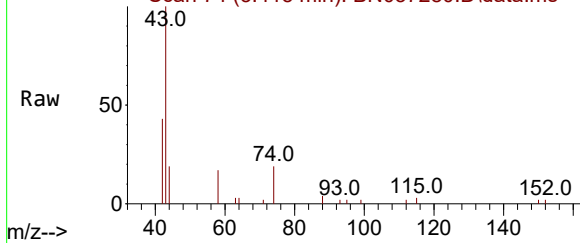
Instrument :

BNA\_N

ClientSampleId :

PB168476BS

Abundance Scan 74 (3.415 min): BN037280.D\data.ms



Tgt Ion: 42 Resp: 1294

Ion Ratio Lower Upper

42 100

74 55.5 44.6 66.8

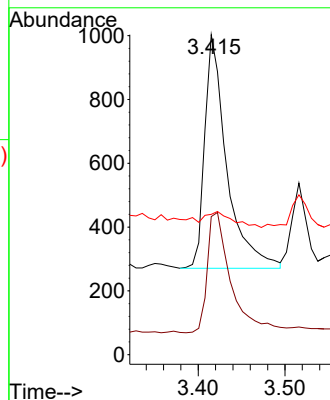
44 8.1 3.5 5.3

Manual Integrations

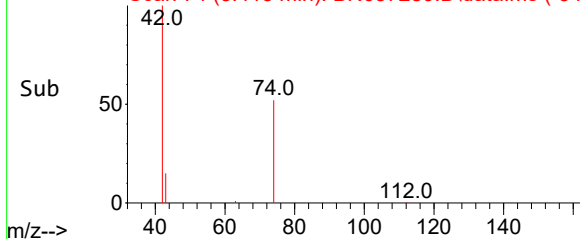
APPROVED

Reviewed By :Anahy Claudio 06/16/2025

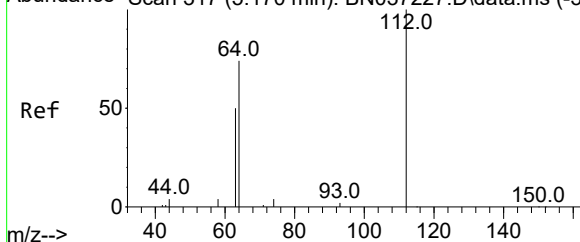
Supervised By :Jagrut Upadhyay 06/16/2025



Abundance Scan 74 (3.415 min): BN037280.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.355 ng

RT: 5.177 min Scan# 318

Delta R.T. 0.007 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Tgt Ion:112 Resp: 961

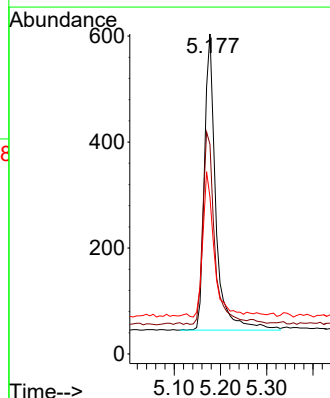
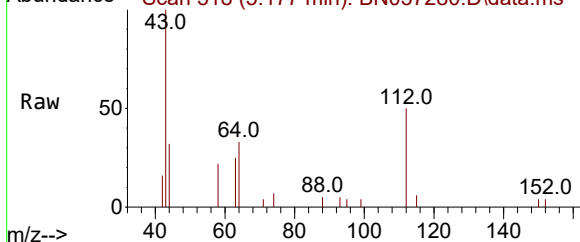
Ion Ratio Lower Upper

112 100

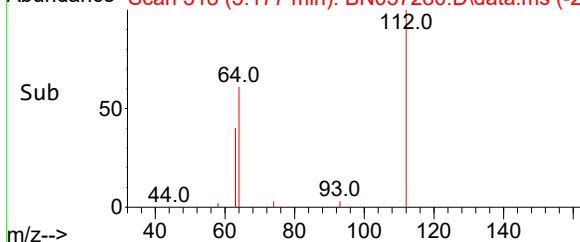
64 66.6 57.2 85.8

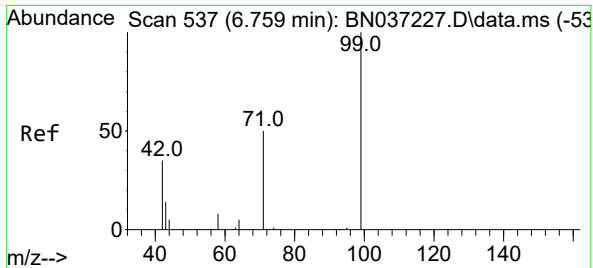
63 48.0 39.8 59.6

Abundance Scan 318 (5.177 min): BN037280.D\data.ms



Abundance Scan 318 (5.177 min): BN037280.D\data.ms (-28)





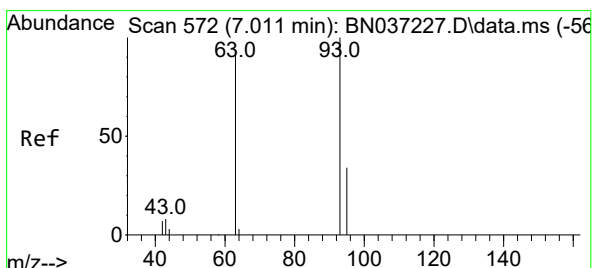
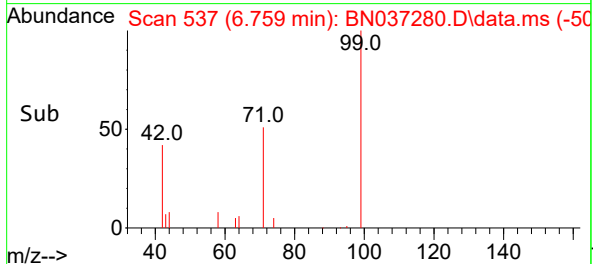
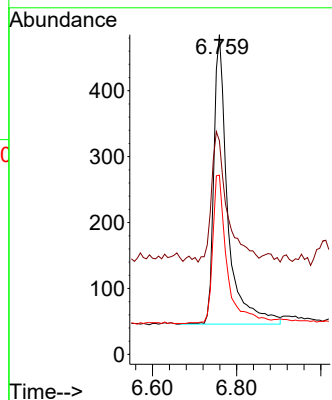
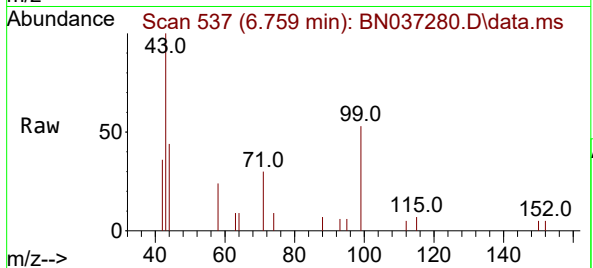
#5  
Phenol-d6  
Concen: 0.355 ng  
RT: 6.759 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS

| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 99      | 100   |       |       |
| 42      | 50.8  | 36.2  | 54.4  |
| 71      | 52.3  | 42.4  | 63.6  |

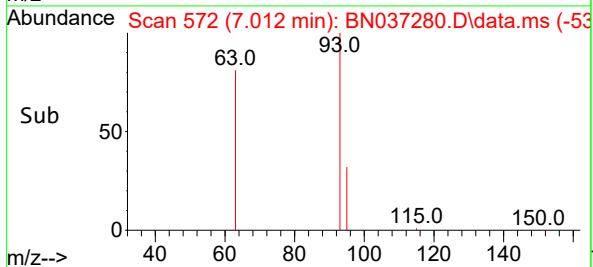
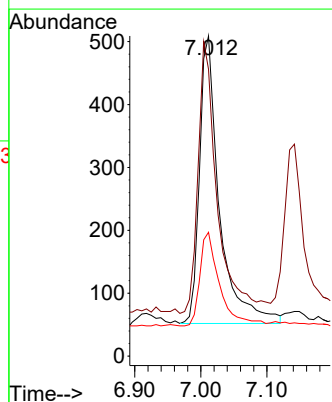
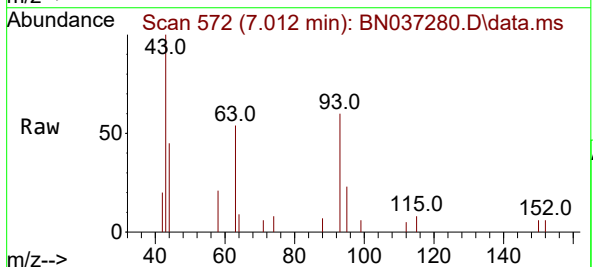
Manual Integrations  
**APPROVED**

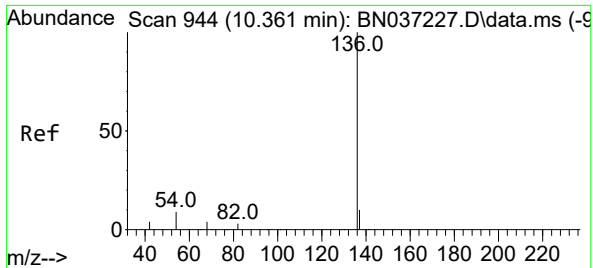
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.375 ng  
RT: 7.012 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

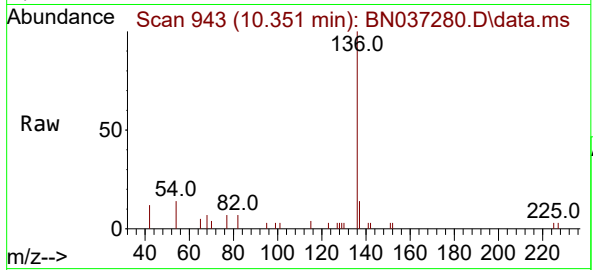
| Tgt Ion | Ratio | Lower | Upper |
|---------|-------|-------|-------|
| 93      | 100   |       |       |
| 63      | 89.5  | 75.2  | 112.8 |
| 95      | 32.3  | 28.3  | 42.5  |





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 944  
Delta R.T. -0.010 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

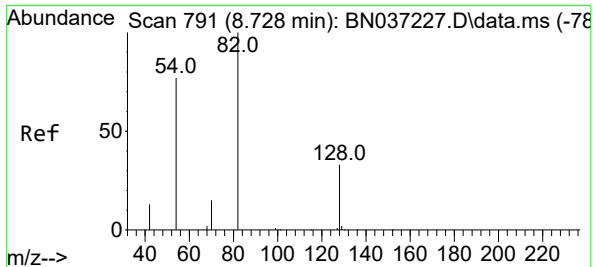
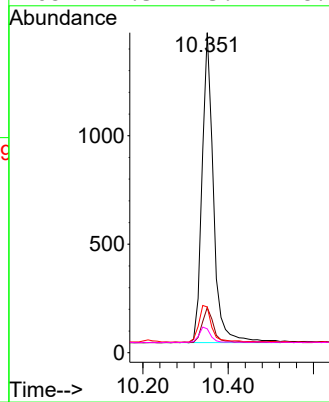
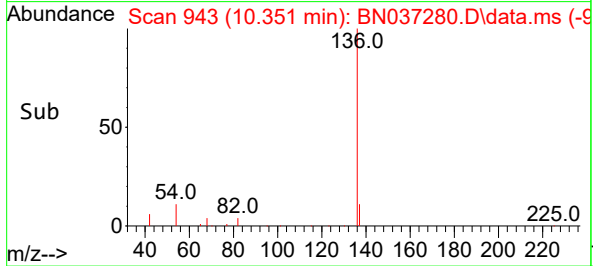
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS



Tgt Ion: 136 Resp: 263  
Ion Ratio Lower Upper  
136 100  
137 14.1 10.6 15.8  
54 14.3 9.2 13.8  
68 7.5 5.4 8.0

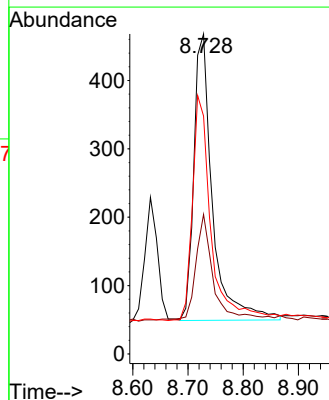
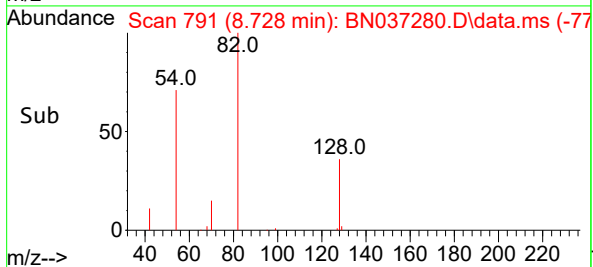
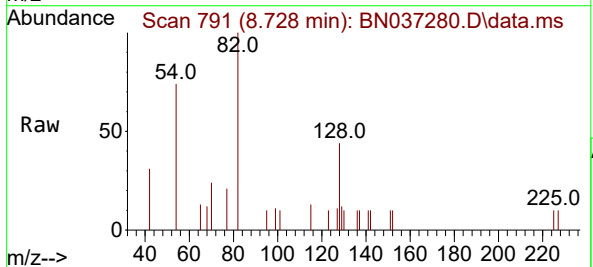
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

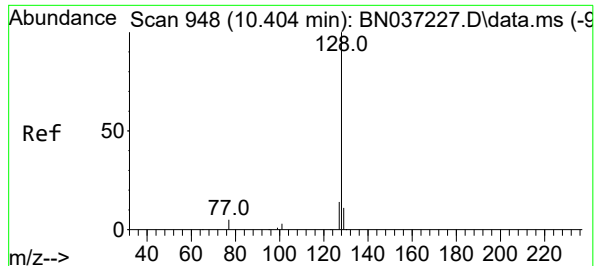


#8  
Nitrobenzene-d5  
Concen: 0.376 ng  
RT: 8.728 min Scan# 791  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Tgt Ion: 82 Resp: 979  
Ion Ratio Lower Upper  
82 100  
128 43.6 31.2 46.8  
54 74.4 63.3 94.9







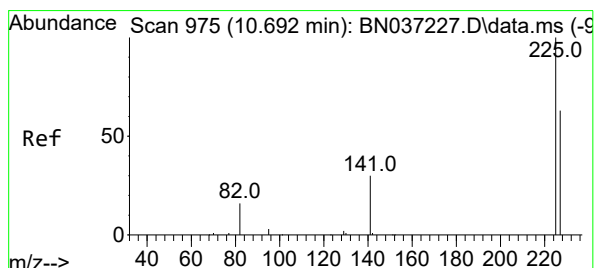
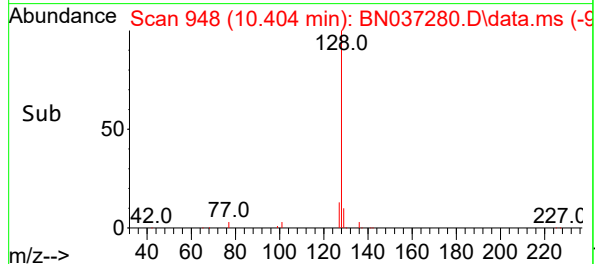
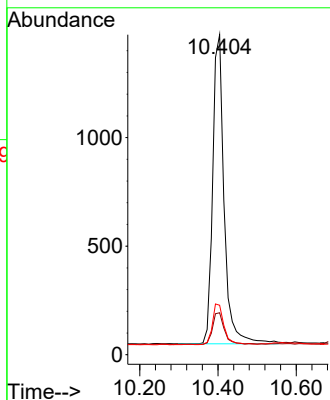
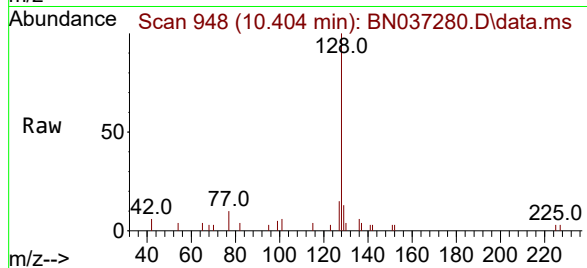
#9  
Naphthalene  
Concen: 0.380 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS

Tgt Ion:128 Resp: 2899  
Ion Ratio Lower Upper  
128 100  
129 13.1 10.7 16.1  
127 15.5 12.6 19.0

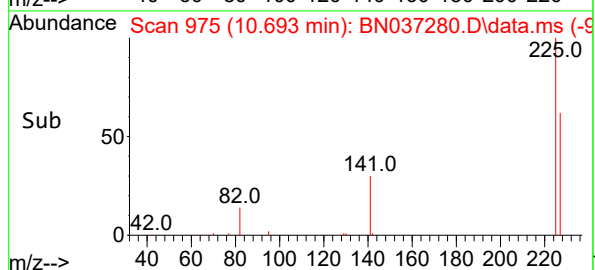
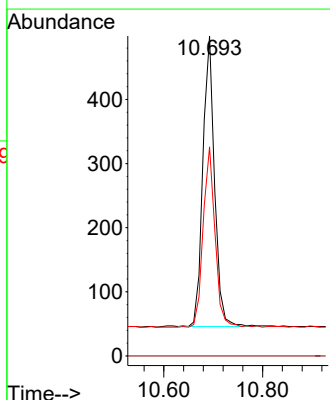
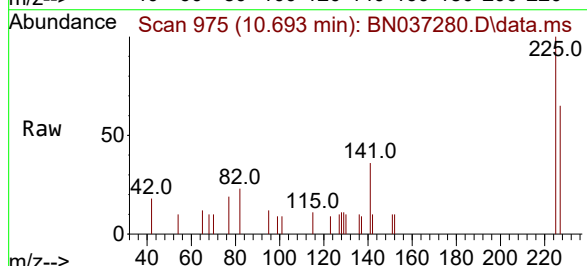
Manual Integrations  
APPROVED

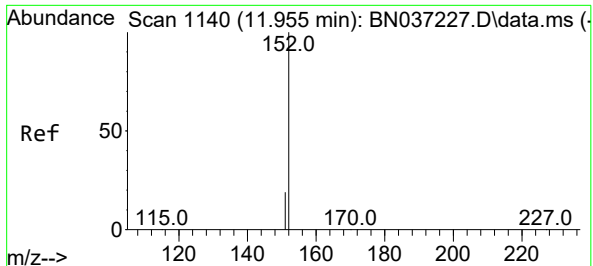
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#10  
Hexachlorobutadiene  
Concen: 0.401 ng  
RT: 10.693 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

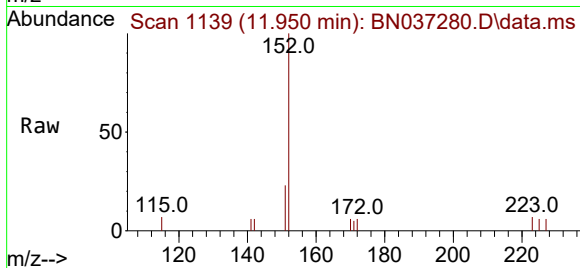
Tgt Ion:225 Resp: 744  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 63.2 49.2 73.8





#11  
2-Methylnaphthalene-d10  
Concen: 0.430 ng m  
RT: 11.950 min Scan# 1139  
Delta R.T. -0.005 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

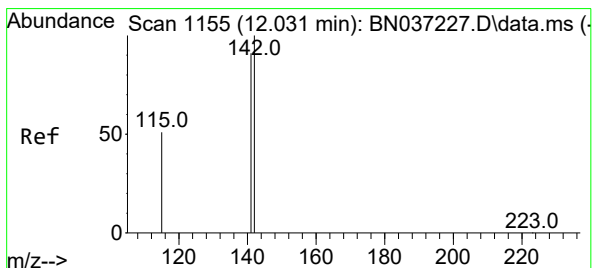
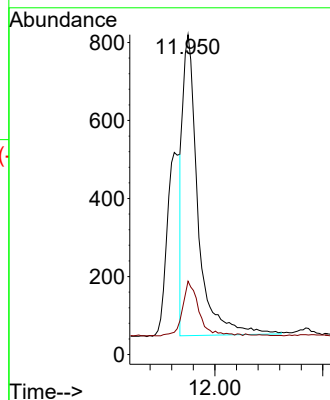
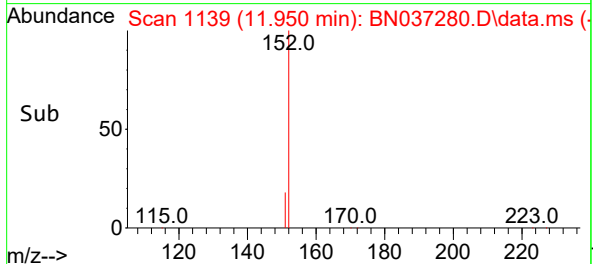
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS



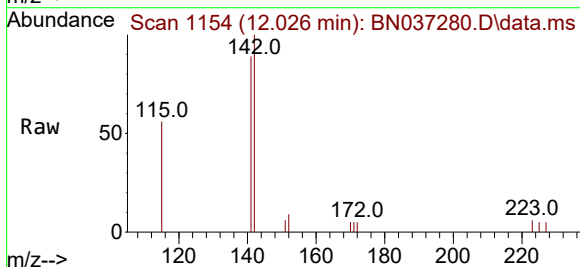
Tgt Ion:152 Resp: 152  
Ion Ratio Lower Upper  
152 100  
151 19.2 17.9 26.9

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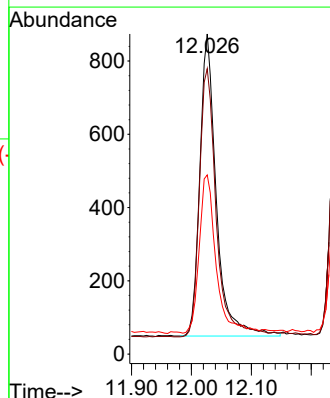
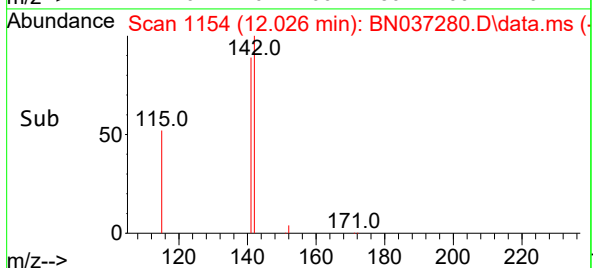
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

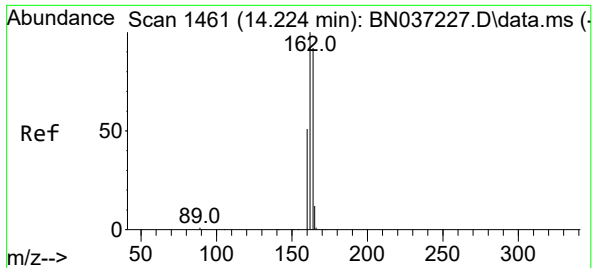


#12  
2-Methylnaphthalene  
Concen: 0.340 ng  
RT: 12.026 min Scan# 1154  
Delta R.T. -0.005 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42



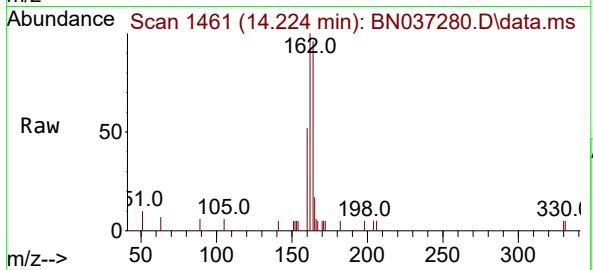
Tgt Ion:142 Resp: 1579  
Ion Ratio Lower Upper  
142 100  
141 89.1 73.0 109.6  
115 55.9 43.3 64.9





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.224 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

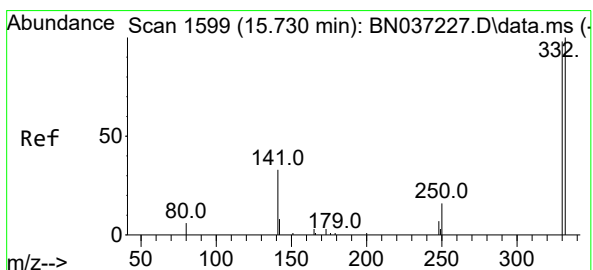
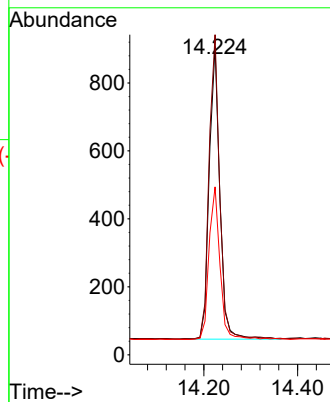
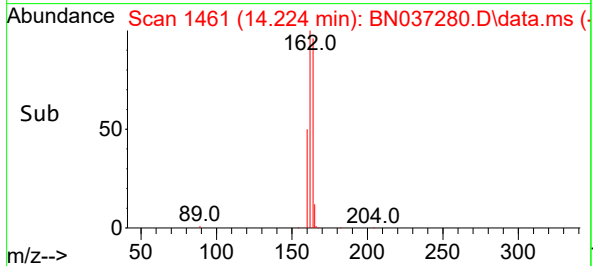
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS



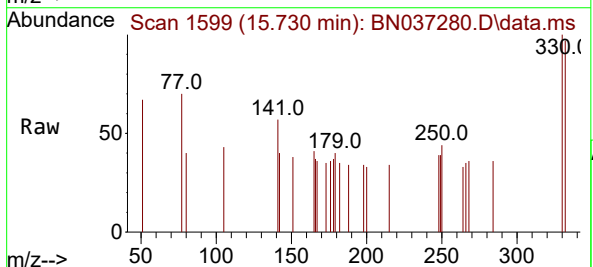
Tgt Ion:164 Resp: 1350  
Ion Ratio Lower Upper  
164 100  
162 103.9 86.7 130.1  
160 54.5 45.8 68.6

Manual Integrations  
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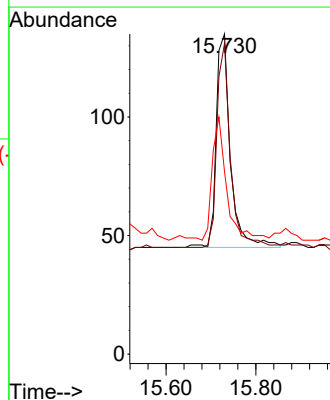
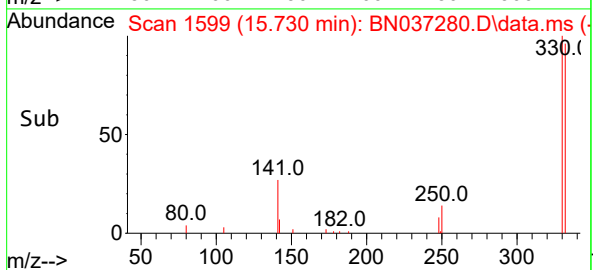
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

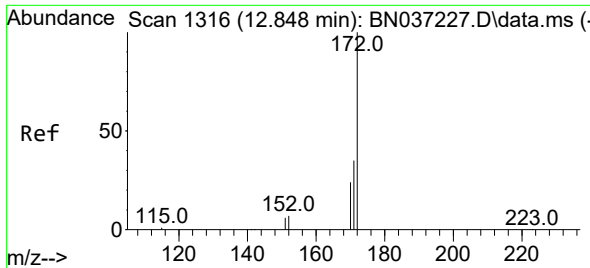


#14  
2,4,6-Tribromophenol  
Concen: 0.353 ng  
RT: 15.730 min Scan# 1599  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42



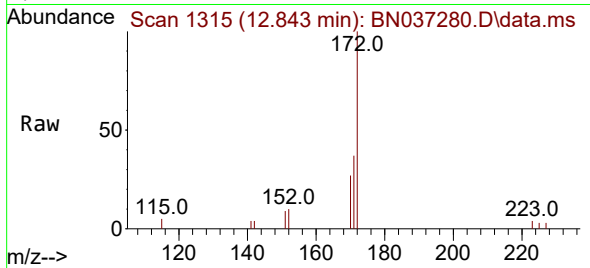
Tgt Ion:330 Resp: 198  
Ion Ratio Lower Upper  
330 100  
332 90.9 74.9 112.3  
141 53.5 45.1 67.7





#15  
2-Fluorobiphenyl  
Concen: 0.387 ng  
RT: 12.843 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

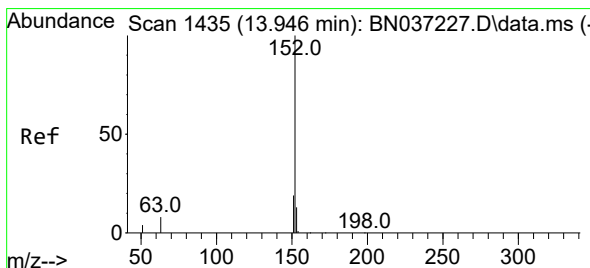
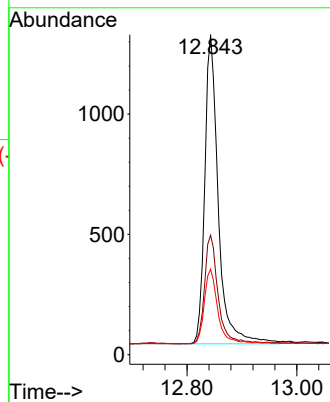
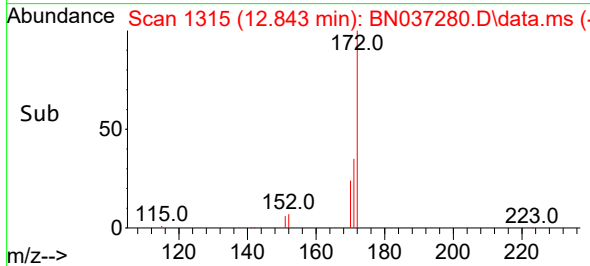
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS



Tgt Ion:172 Resp: 219  
Ion Ratio Lower Upper  
172 100  
171 37.4 29.8 44.8  
170 26.7 21.1 31.7

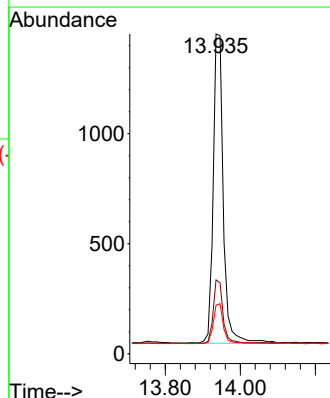
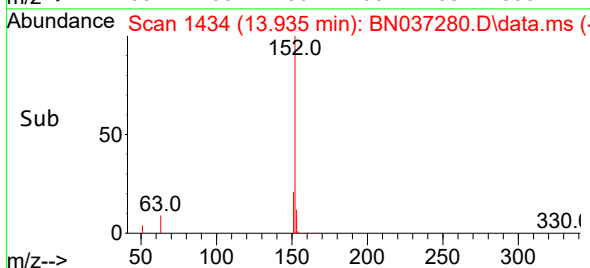
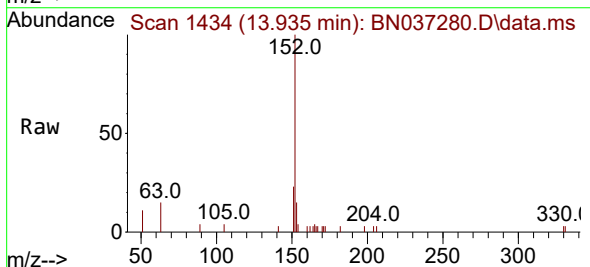
Manual Integrations  
APPROVED

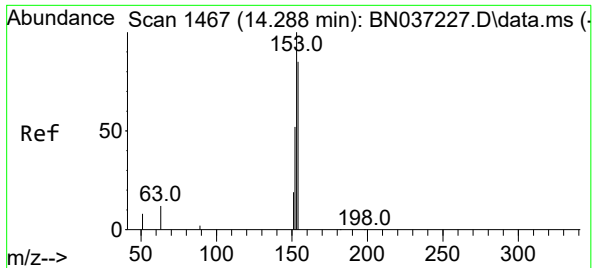
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#16  
Acenaphthylene  
Concen: 0.399 ng  
RT: 13.935 min Scan# 1434  
Delta R.T. -0.010 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Tgt Ion:152 Resp: 2642  
Ion Ratio Lower Upper  
152 100  
151 20.0 15.7 23.5  
153 12.8 10.7 16.1





#17

Acenaphthene

Concen: 0.366 ng

RT: 14.288 min Scan# 1467

Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

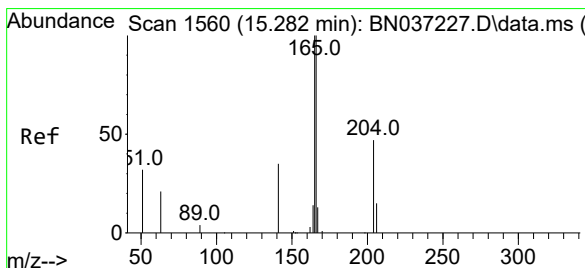
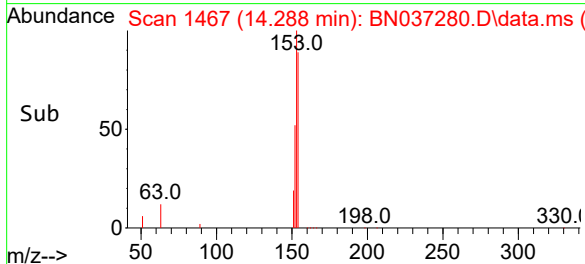
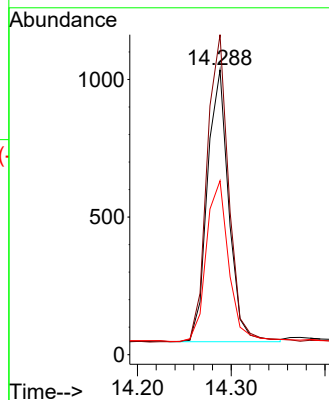
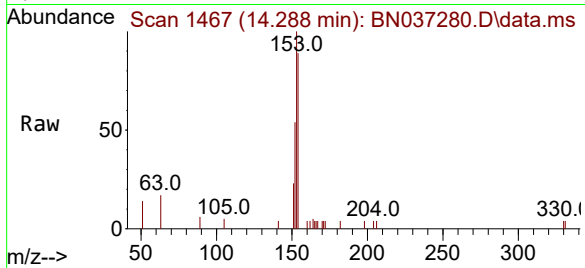
PB168476BS

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 154   | Resp: | 156   |
| Ion      | Ratio | Lower | Upper |
| 154      | 100   |       |       |
| 153      | 115.1 | 94.6  | 141.8 |
| 152      | 63.2  | 49.6  | 74.4  |

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#18

Fluorene

Concen: 0.361 ng

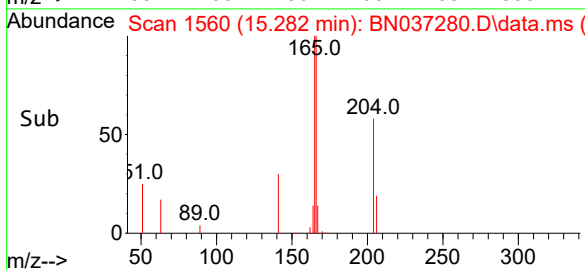
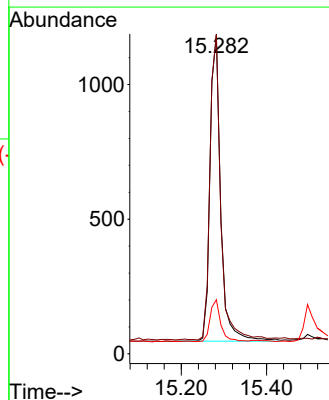
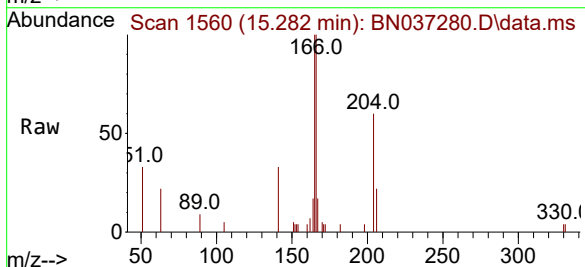
RT: 15.282 min Scan# 1560

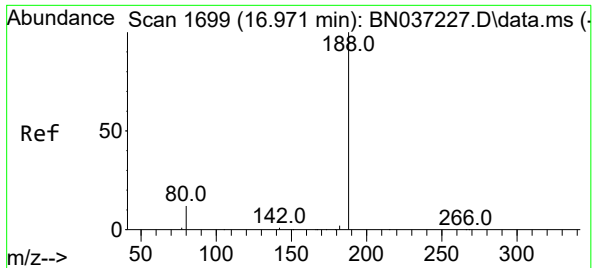
Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 166   | Resp: | 1981  |
| Ion      | Ratio | Lower | Upper |
| 166      | 100   |       |       |
| 165      | 99.1  | 79.8  | 119.6 |
| 167      | 13.5  | 10.8  | 16.2  |





#19

Phenanthrene-d10

Concen: 0.400 ng

RT: 16.971 min Scan# 1699

Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

PB168476BS

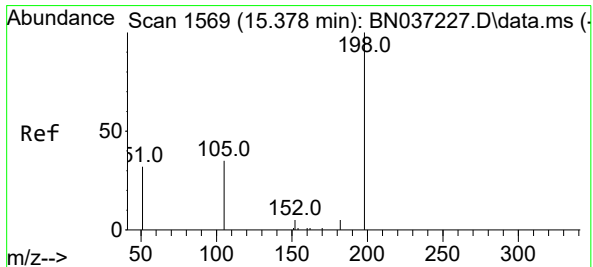
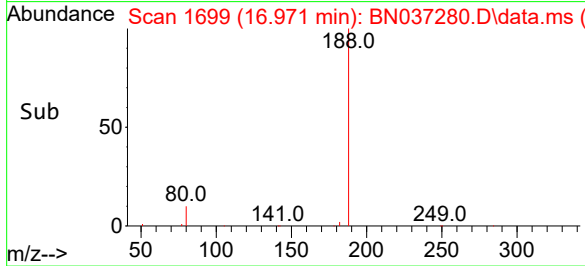
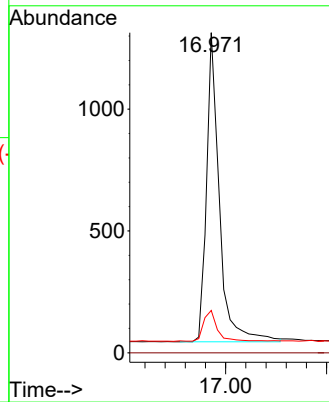
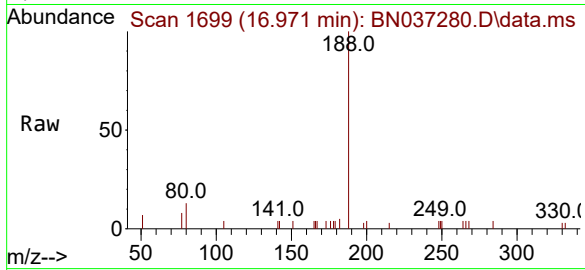
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 188   | Resp: | 225  |
| Ion Ratio | Lower | Upper |      |
| 188       | 100   |       |      |
| 94        | 0.0   | 0.0   | 0.0  |
| 80        | 13.2  | 12.2  | 18.4 |

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#20

4,6-Dinitro-2-methylphenol

Concen: 0.463 ng

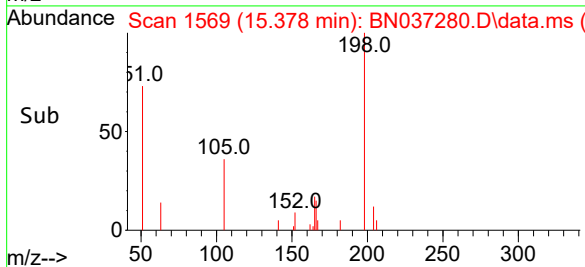
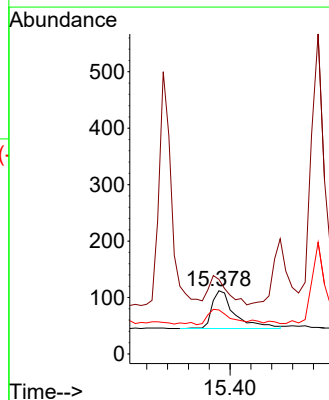
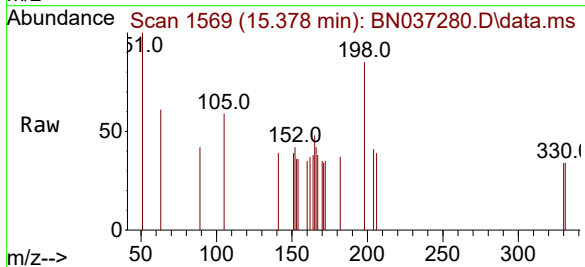
RT: 15.378 min Scan# 1569

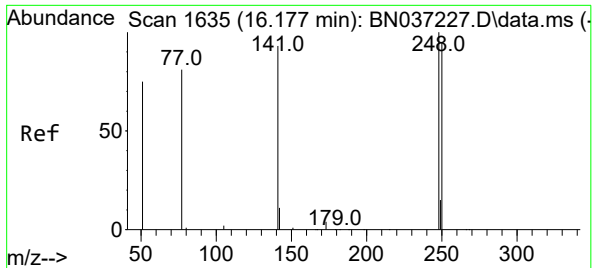
Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

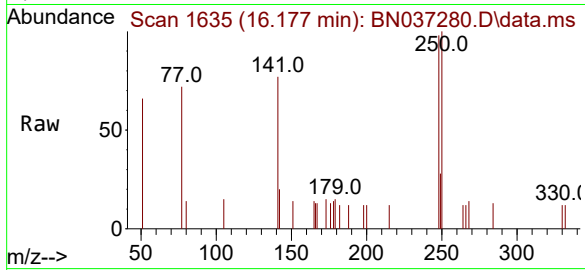
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 198   | Resp: | 205   |
| Ion Ratio | Lower | Upper |       |
| 198       | 100   |       |       |
| 51        | 117.9 | 111.2 | 166.8 |
| 105       | 69.6  | 54.0  | 81.0  |





#21  
4-Bromophenyl-phenylether  
Concen: 0.386 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

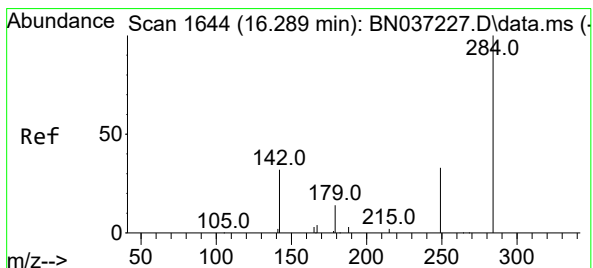
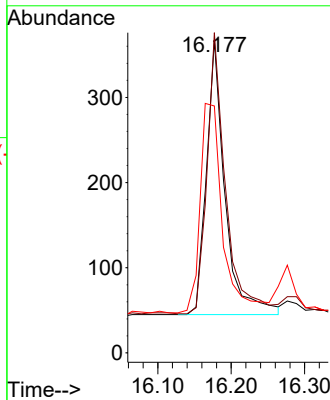
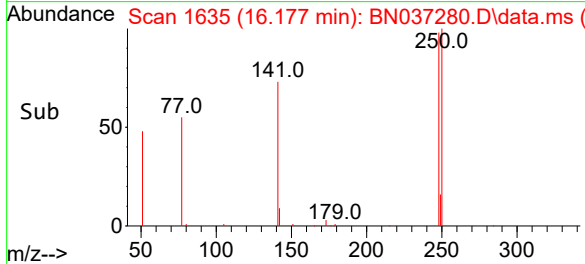
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS



Tgt Ion:248 Resp: 560  
Ion Ratio Lower Upper  
248 100  
250 102.5 76.8 115.2  
141 79.0 75.6 113.4

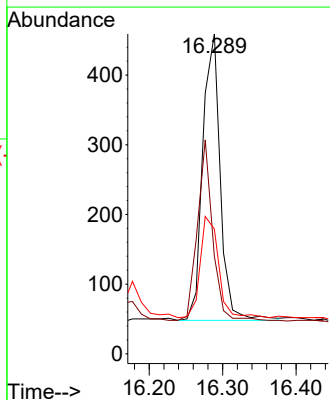
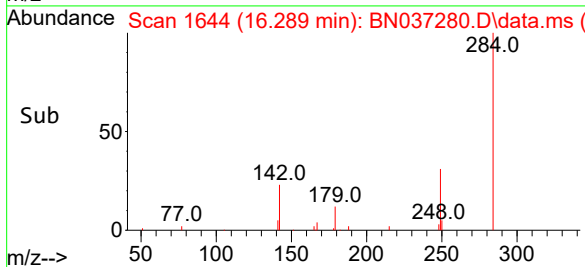
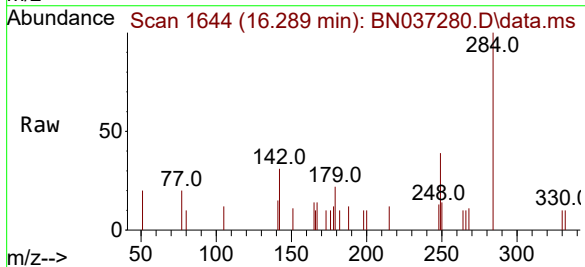
Manual Integrations  
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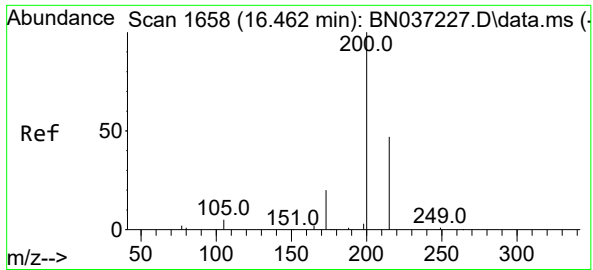
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#22  
Hexachlorobenzene  
Concen: 0.401 ng  
RT: 16.289 min Scan# 1644  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Tgt Ion:284 Resp: 682  
Ion Ratio Lower Upper  
284 100  
142 55.4 43.8 65.6  
249 37.1 28.4 42.6





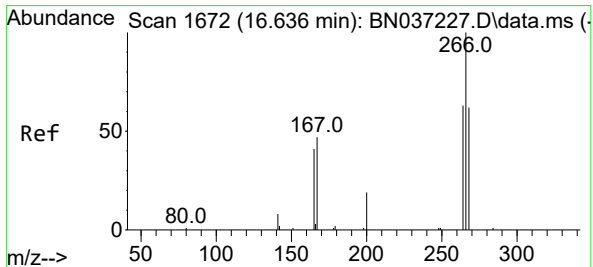
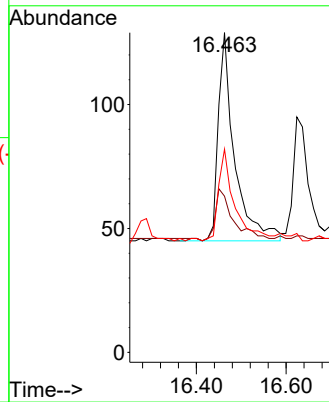
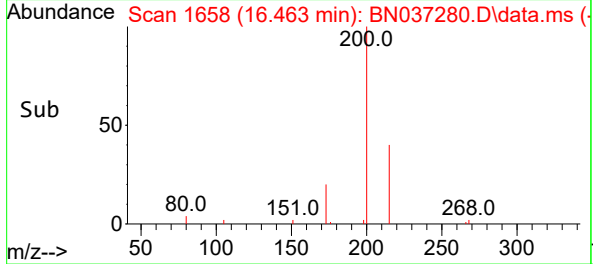
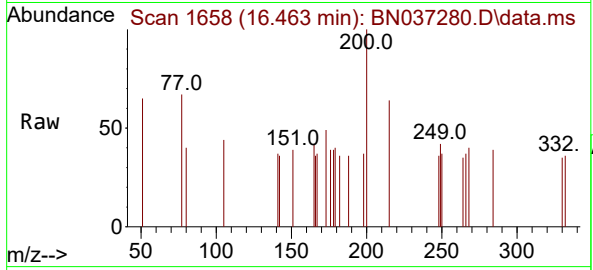
#23  
Atrazine  
Concen: 0.162 ng  
RT: 16.463 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS

Tgt Ion:200 Resp: 211  
Ion Ratio Lower Upper  
200 100  
173 48.8 25.1 37.7  
215 63.6 43.7 65.5

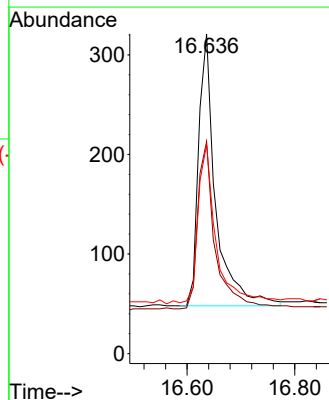
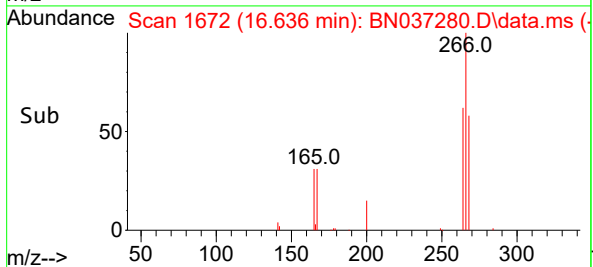
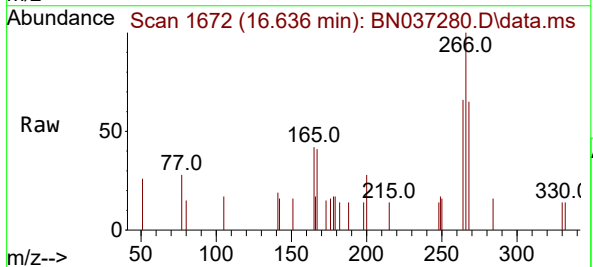
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Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

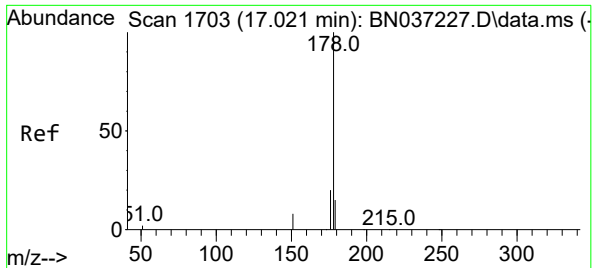


#24  
Pentachlorophenol  
Concen: 0.720 ng  
RT: 16.636 min Scan# 1672  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Tgt Ion:266 Resp: 600  
Ion Ratio Lower Upper  
266 100  
264 63.2 49.2 73.8  
268 63.2 53.4 80.2

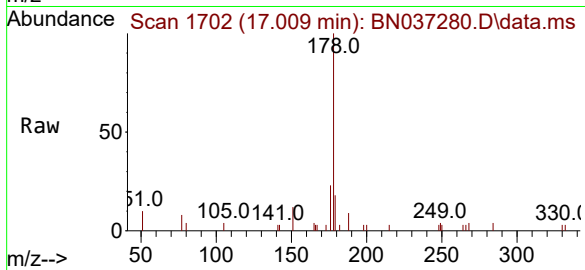






#25  
Phenanthrene  
Concen: 0.377 ng  
RT: 17.009 min Scan# 1702  
Delta R.T. -0.012 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

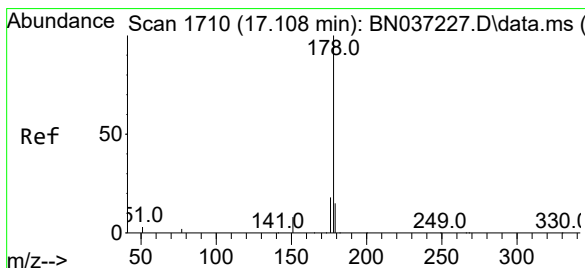
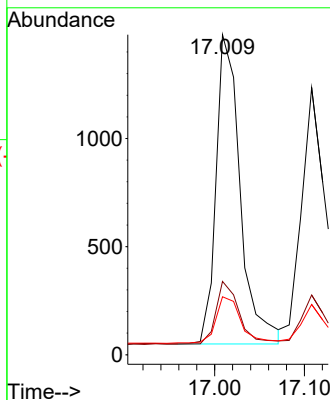
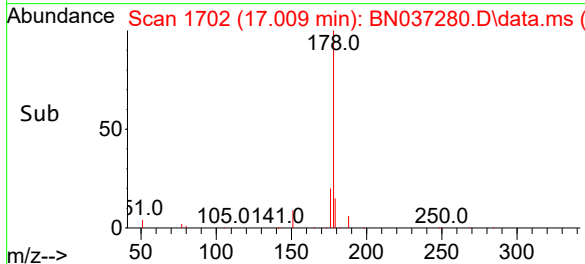
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS



Tgt Ion:178 Resp: 268  
Ion Ratio Lower Upper  
178 100  
176 19.6 16.3 24.5  
179 15.7 12.6 18.8

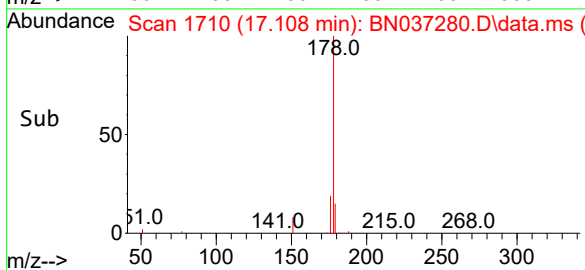
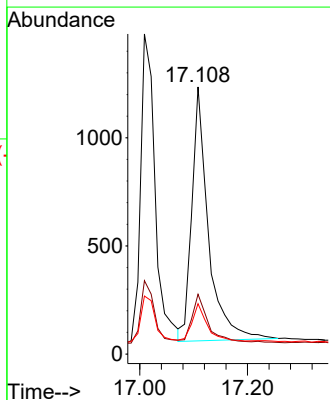
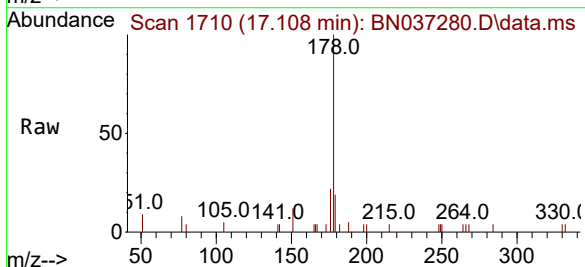
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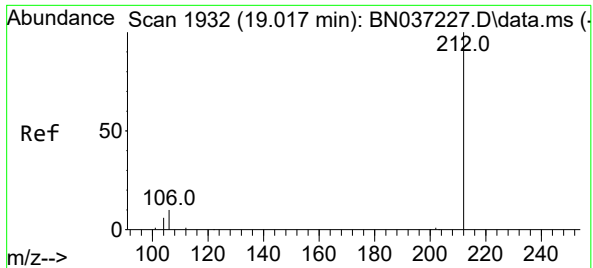
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#26  
Anthracene  
Concen: 0.385 ng  
RT: 17.108 min Scan# 1710  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Tgt Ion:178 Resp: 2516  
Ion Ratio Lower Upper  
178 100  
176 18.9 15.1 22.7  
179 13.6 12.4 18.6





#27

Fluoranthene-d10

Concen: 0.339 ng

RT: 19.012 min Scan# 1932

Delta R.T. -0.004 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

PB168476BS

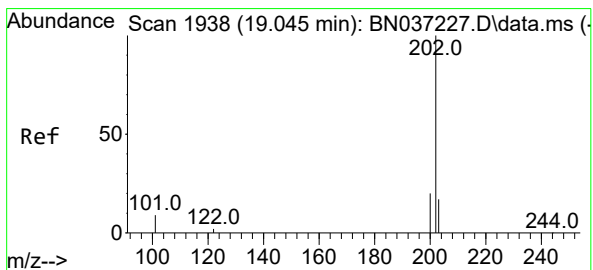
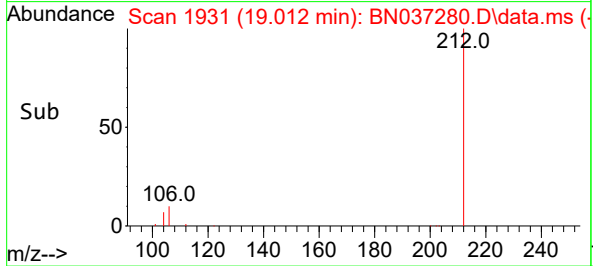
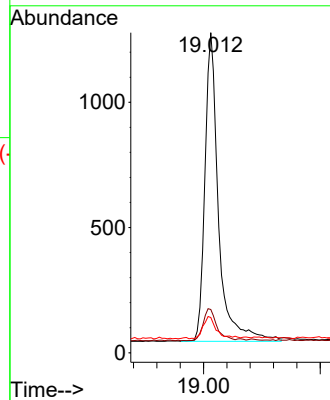
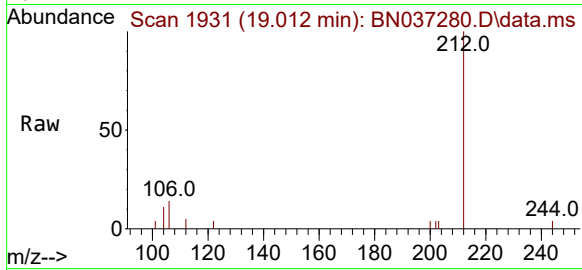
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 212   | Resp: | 1999 |
| Ion Ratio | Lower | Upper |      |
| 212       | 100   |       |      |
| 106       | 10.5  | 9.3   | 13.9 |
| 104       | 7.1   | 5.7   | 8.5  |

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#28

Fluoranthene

Concen: 0.339 ng

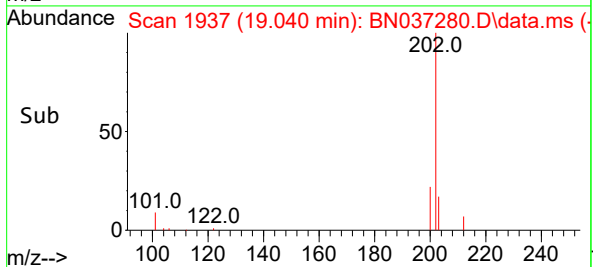
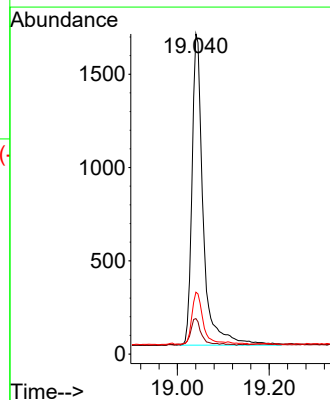
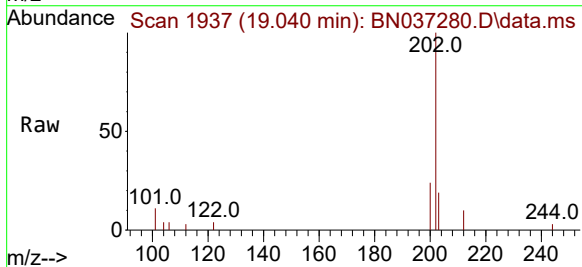
RT: 19.040 min Scan# 1937

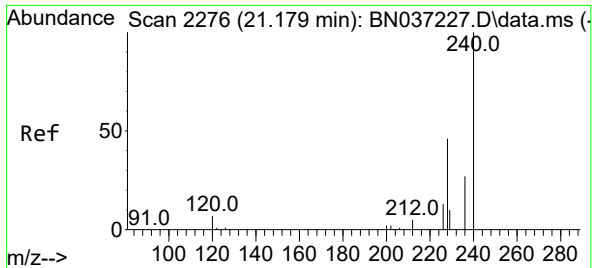
Delta R.T. -0.004 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

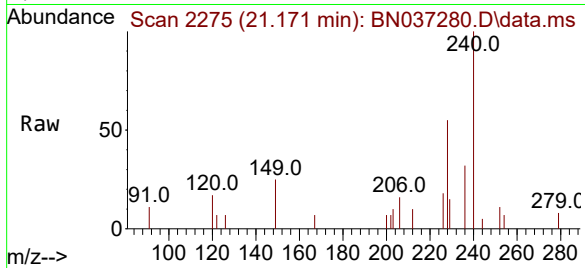
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 2829 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 101       | 8.6   | 7.1   | 10.7 |
| 203       | 16.5  | 13.0  | 19.6 |





#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.171 min Scan# 2115  
Delta R.T. -0.009 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

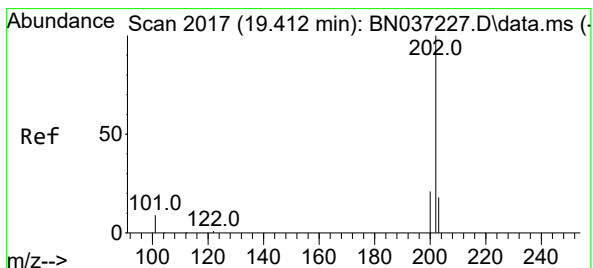
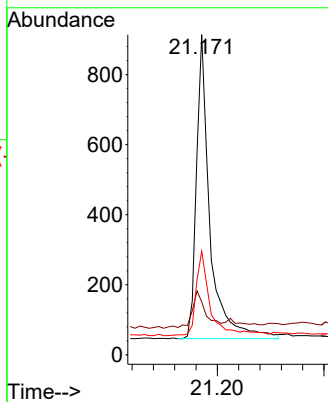
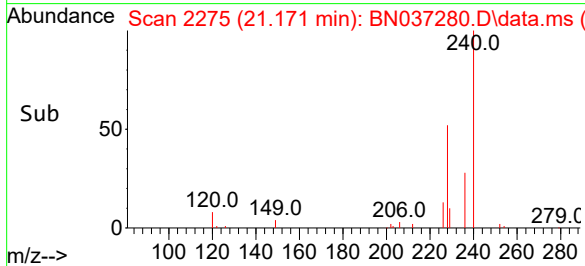
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS



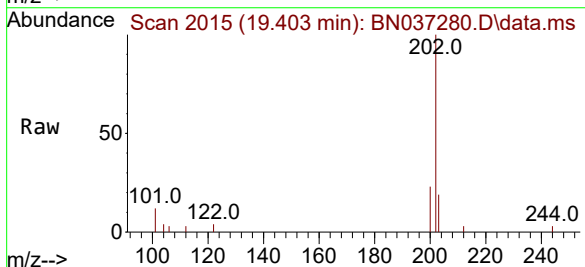
Tgt Ion:240 Resp: 1528  
Ion Ratio Lower Upper  
240 100  
120 16.5 11.3 16.9  
236 32.4 24.4 36.6

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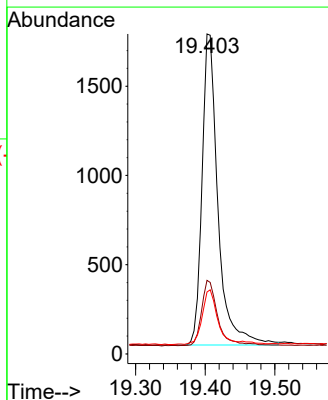
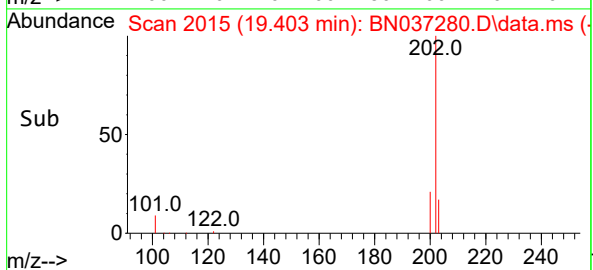
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

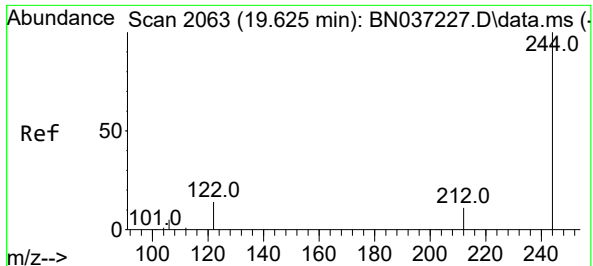


#30  
Pyrene  
Concen: 0.386 ng  
RT: 19.403 min Scan# 2015  
Delta R.T. -0.009 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42



Tgt Ion:202 Resp: 2773  
Ion Ratio Lower Upper  
202 100  
200 21.6 17.2 25.8  
203 16.9 14.3 21.5





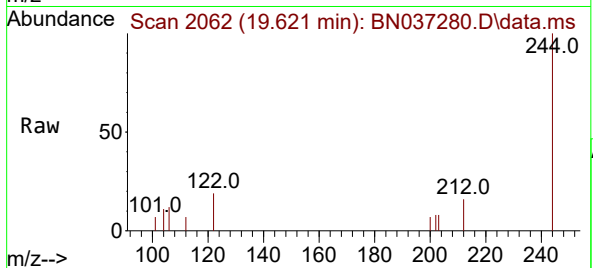
#31  
Terphenyl-d14  
Concen: 0.380 ng  
RT: 19.621 min Scan# 2062  
Delta R.T. -0.004 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

PB168476BS

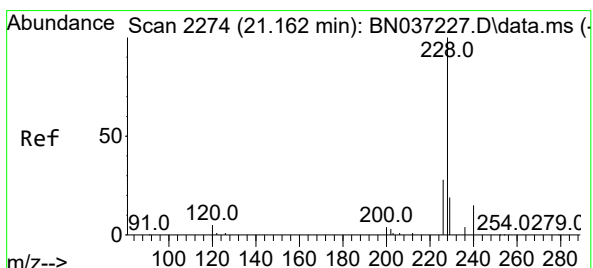
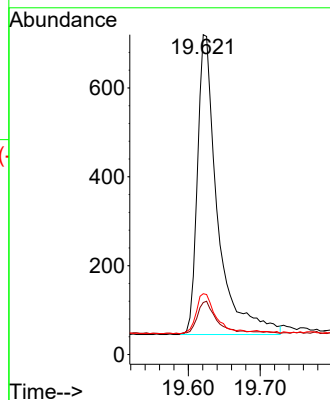


Tgt Ion:244 Resp: 131  
Ion Ratio Lower Upper  
244 100  
212 16.2 12.2 18.2  
122 19.0 14.3 21.5

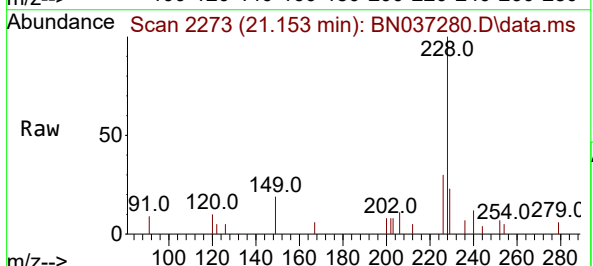
Manual Integrations

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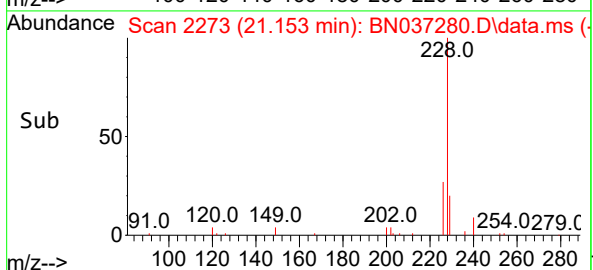
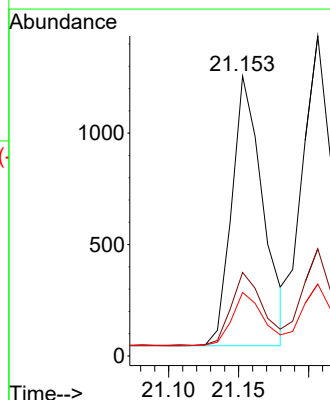
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

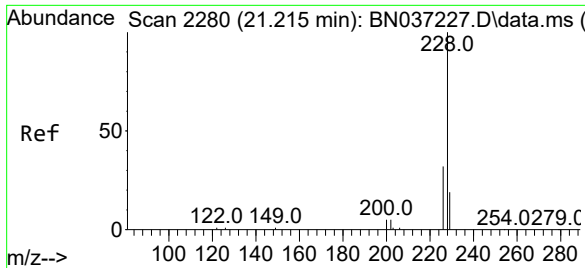


#32  
Benzo(a)anthracene  
Concen: 0.364 ng  
RT: 21.153 min Scan# 2273  
Delta R.T. -0.009 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42



Tgt Ion:228 Resp: 1878  
Ion Ratio Lower Upper  
228 100  
226 29.9 23.8 35.8  
229 22.7 17.0 25.4





#33

Chrysene

Concen: 0.404 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

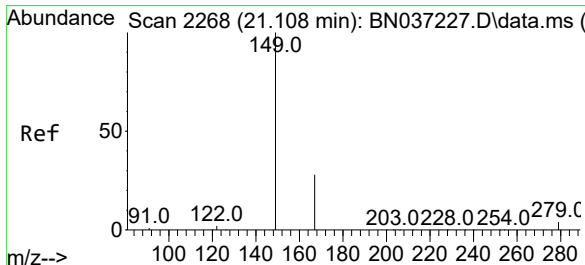
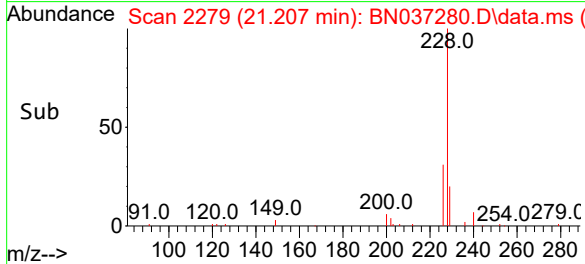
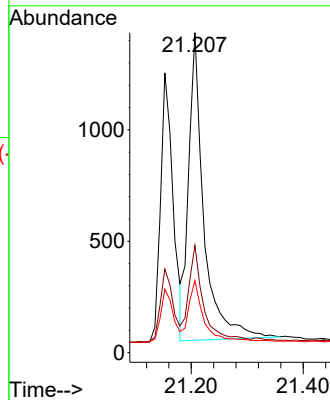
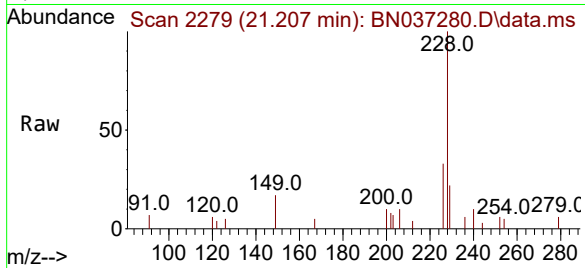
Instrument :

BNA\_N

ClientSampleId :

PB168476BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 2594 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 33.5  | 25.8  | 38.6 |
| 229       | 22.5  | 17.0  | 25.4 |

**Manual Integrations**  
**APPROVED**Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.383 ng

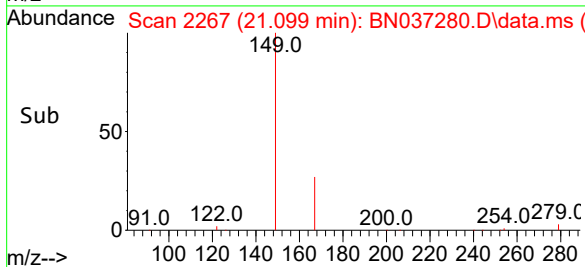
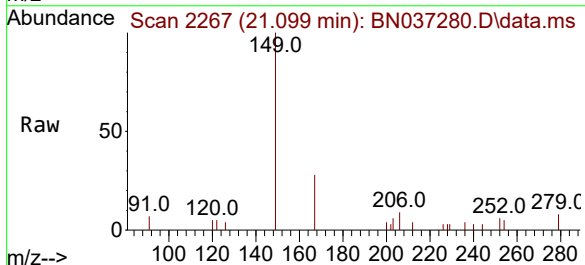
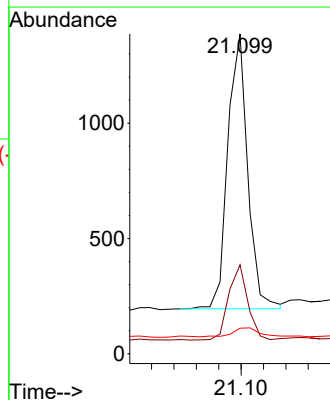
RT: 21.099 min Scan# 2267

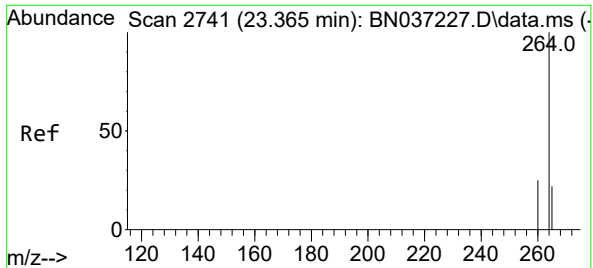
Delta R.T. -0.009 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

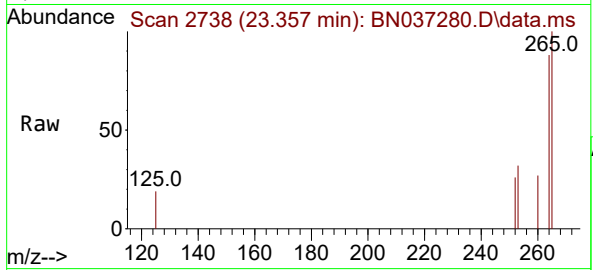
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 1471 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 26.4  | 21.3  | 31.9 |
| 279       | 4.5   | 3.3   | 4.9  |





#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.357 min Scan# 21  
Delta R.T. -0.009 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

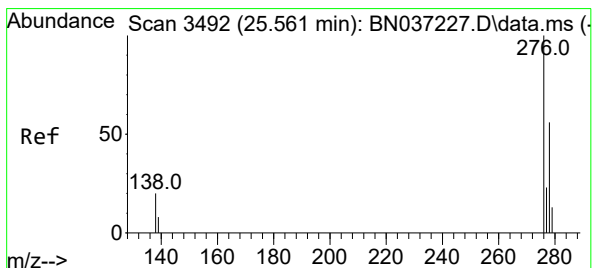
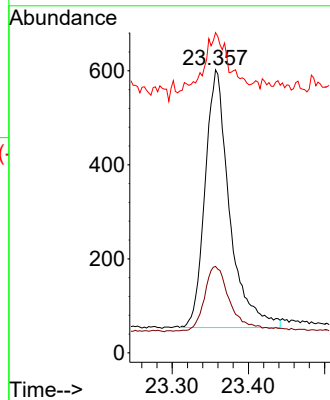
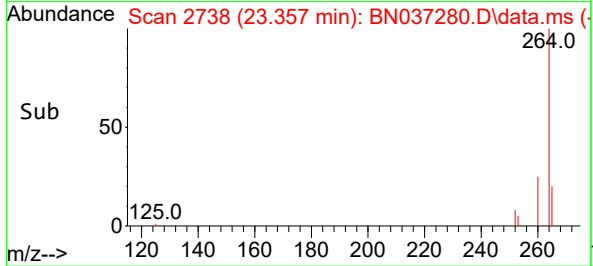
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS



Tgt Ion:264 Resp: 1224  
Ion Ratio Lower Upper  
264 100  
260 30.6 22.8 34.2  
265 113.1 66.4 99.6

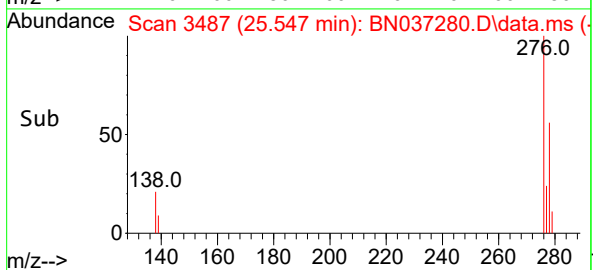
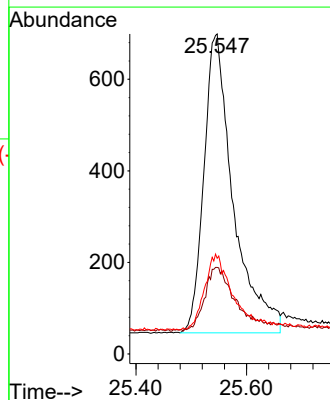
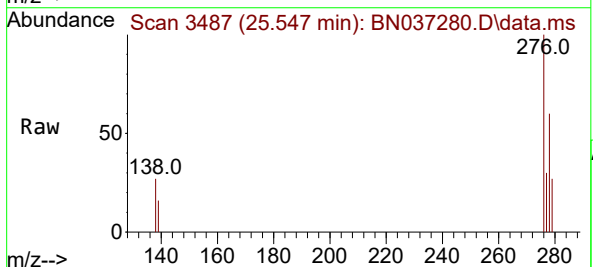
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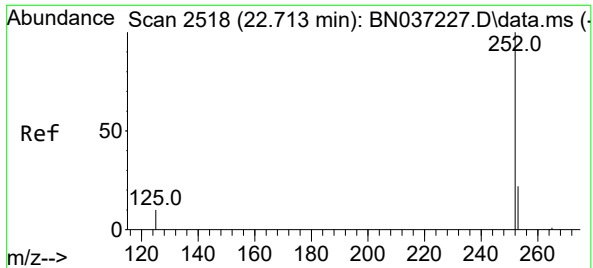
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.487 ng  
RT: 25.547 min Scan# 3487  
Delta R.T. -0.014 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Tgt Ion:276 Resp: 2405  
Ion Ratio Lower Upper  
276 100  
138 22.6 16.8 25.2  
277 23.1 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.451 ng

RT: 22.702 min Scan# 2518

Delta R.T. -0.012 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

PB168476BS

Tgt Ion:252 Resp: 2018

Ion Ratio Lower Upper

252 100

253 33.1 24.9 37.3

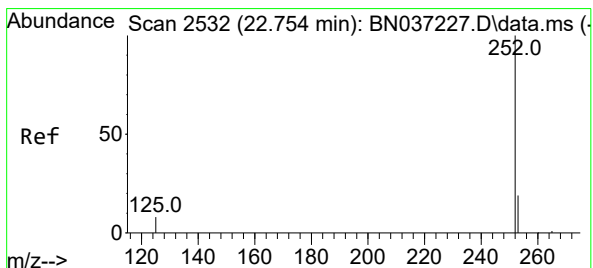
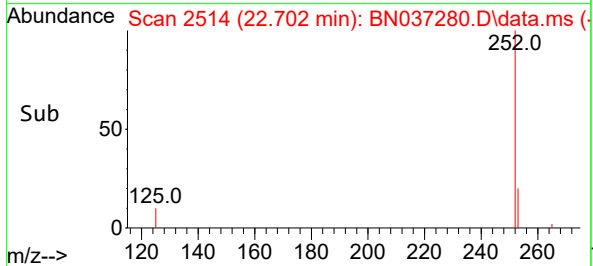
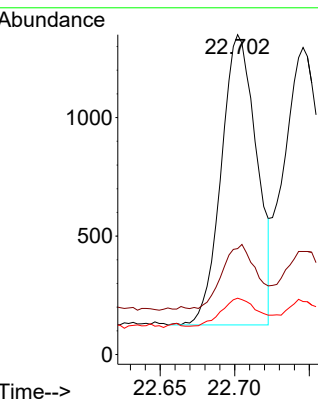
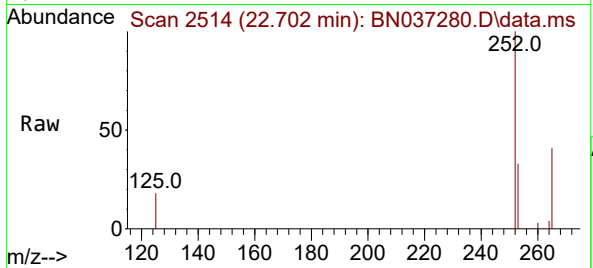
125 17.6 12.9 19.3

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#38

Benzo(k)fluoranthene

Concen: 0.442 ng

RT: 22.746 min Scan# 2529

Delta R.T. -0.009 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

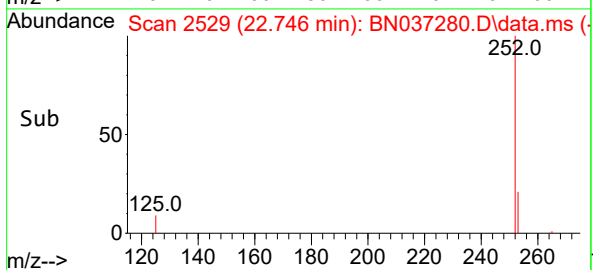
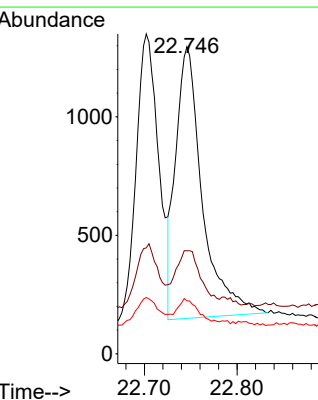
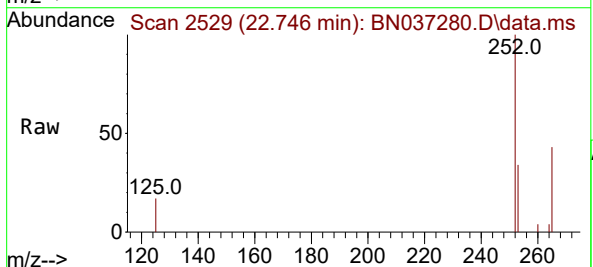
Tgt Ion:252 Resp: 2286

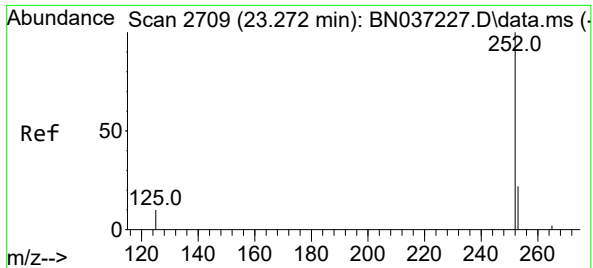
Ion Ratio Lower Upper

252 100

253 33.6 24.6 37.0

125 17.3 13.4 20.2





#39

Benzo(a)pyrene

Concen: 0.445 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

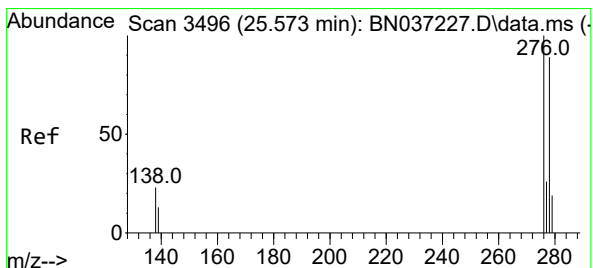
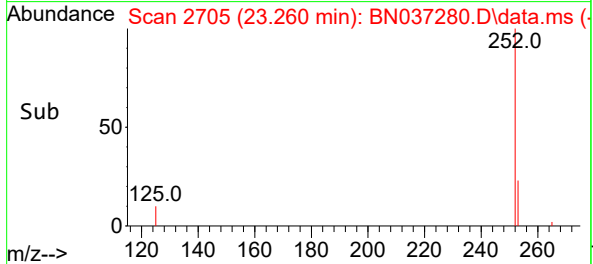
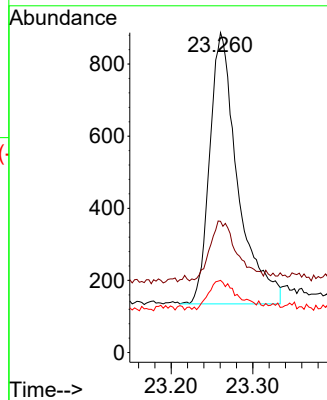
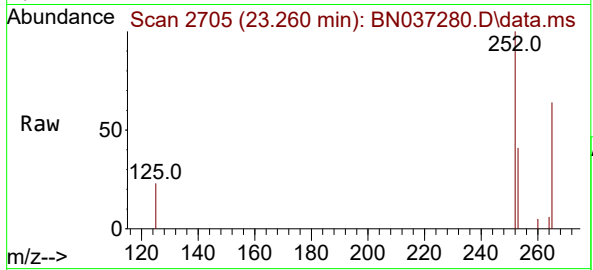
PB168476BS

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 179  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 41.0  | 29.4  | 44.2 |
| 125       | 22.5  | 16.2  | 24.2 |

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.500 ng

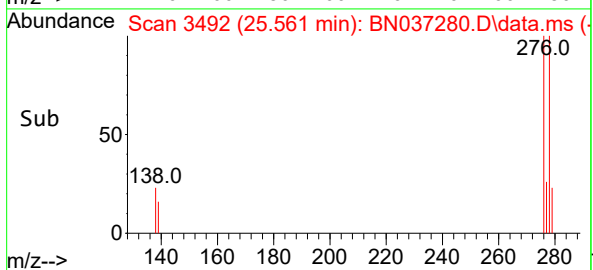
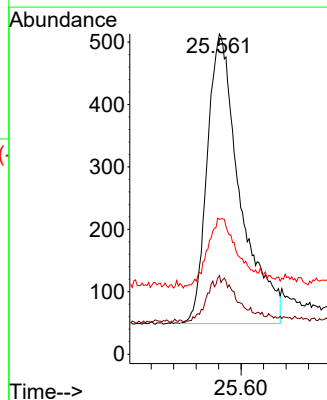
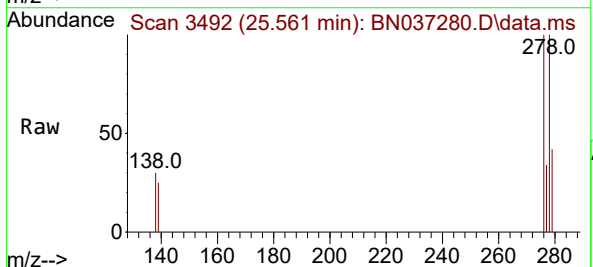
RT: 25.561 min Scan# 3492

Delta R.T. -0.012 min

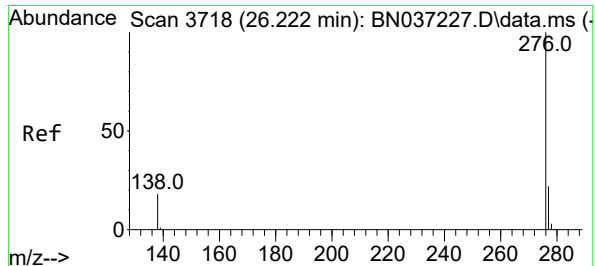
Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 1876 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 24.6  | 17.8  | 26.6 |
| 279       | 42.1  | 31.3  | 46.9 |







#41

Benzo(g,h,i)perylene

Concen: 0.467 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037280.D

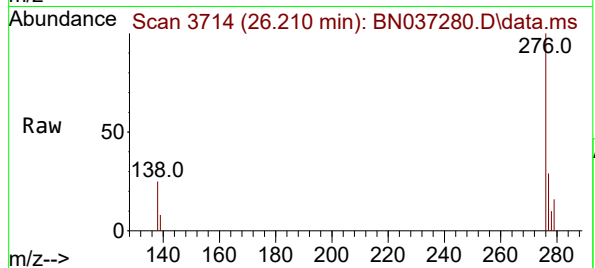
Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

PB168476BS



Tgt Ion: 276 Resp: 2130

Ion Ratio Lower Upper

276 100

277 29.3 22.0 33.0

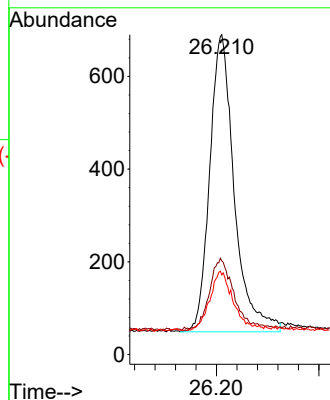
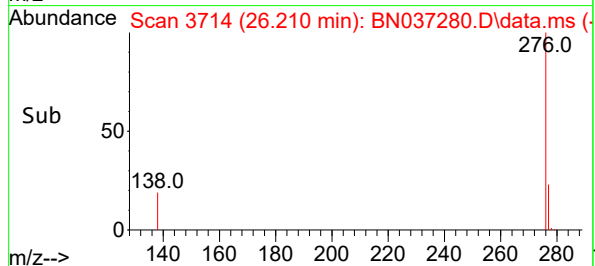
138 24.9 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



## Report of Analysis

|                    |                               |                 |                |
|--------------------|-------------------------------|-----------------|----------------|
| Client:            | Tetra Tech NUS, Inc.          | Date Collected: |                |
| Project:           | NWIRP Bethpage 112G08005-WE13 | Date Received:  |                |
| Client Sample ID:  | PB168476BSD                   | SDG No.:        | Q2316          |
| Lab Sample ID:     | PB168476BSD                   | 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 |
| BN037281.D        | 1         | 06/13/25 11:00 | 06/15/25 03:18 | PB168476      |

| CAS Number                | Parameter               | Conc. | Qualifier | MDL      | LOD  | LOQ / CRQL | Units    |
|---------------------------|-------------------------|-------|-----------|----------|------|------------|----------|
| <b>TARGETS</b>            |                         |       |           |          |      |            |          |
| 123-91-1                  | 1,4-Dioxane             | 0.28  |           | 0.070    | 0.20 | 0.20       | ug/L     |
| <b>SURROGATES</b>         |                         |       |           |          |      |            |          |
| 7297-45-2                 | 2-Methylnaphthalene-d10 | 0.40  |           | 30 - 150 |      | 99%        | SPK: 0.4 |
| 93951-69-0                | Fluoranthene-d10        | 0.32  |           | 30 - 150 |      | 81%        | SPK: 0.4 |
| 4165-60-0                 | Nitrobenzene-d5         | 0.34  |           | 55 - 111 |      | 85%        | SPK: 0.4 |
| 321-60-8                  | 2-Fluorobiphenyl        | 0.36  |           | 53 - 106 |      | 89%        | SPK: 0.4 |
| 1718-51-0                 | Terphenyl-d14           | 0.36  |           | 58 - 132 |      | 90%        | SPK: 0.4 |
| <b>INTERNAL STANDARDS</b> |                         |       |           |          |      |            |          |
| 3855-82-1                 | 1,4-Dichlorobenzene-d4  | 1070  | 7.575     |          |      |            |          |
| 1146-65-2                 | Naphthalene-d8          | 2630  | 10.351    |          |      |            |          |
| 15067-26-2                | Acenaphthene-d10        | 1330  | 14.223    |          |      |            |          |
| 1517-22-2                 | Phenanthrene-d10        | 2260  | 16.971    |          |      |            |          |
| 1719-03-5                 | Chrysene-d12            | 1570  | 21.17     |          |      |            |          |
| 1520-96-3                 | Perylene-d12            | 1280  | 23.354    |          |      |            |          |

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\BN061325\  
 Data File : BN037281.D  
 Acq On : 15 Jun 2025 03:18  
 Operator : RC/JU  
 Sample : PB168476BSD  
 Misc :  
 ALS Vial : 60 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168476BSD

Quant Time: Jun 16 02:47:33 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:43:34 2025  
 Response via : Initial Calibration

### Manual Integrations APPROVED

Reviewed By :Anahy Claudio 06/16/2025  
 Supervised By :Jagrut Upadhyay 06/16/2025

| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1070     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.351 | 136  | 2630     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.223 | 164  | 1332     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.971 | 188  | 2256     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.170 | 240  | 1565     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.354 | 264  | 1276     | 0.400 | ng    | #-0.01   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.177  | 112  | 878      | 0.334 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.758  | 99   | 923      | 0.333 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.728  | 82   | 885      | 0.340 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.950 | 152  | 1401m    | 0.397 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 175      | 0.316 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.842 | 172  | 2000     | 0.357 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.012 | 212  | 1905     | 0.323 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.625 | 244  | 1269     | 0.359 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.104  | 88   | 411      | 0.280 | ng    | # 1      |
| 3) n-Nitrosodimethylamine     | 3.415  | 42   | 1162     | 0.347 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 7.011  | 93   | 840      | 0.339 | ng    | 98       |
| 9) Naphthalene                | 10.404 | 128  | 2636     | 0.346 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.692 | 225  | 689      | 0.372 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.026 | 142  | 1469     | 0.317 | ng    | 98       |
| 16) Acenaphthylene            | 13.945 | 152  | 2403     | 0.368 | ng    | 99       |
| 17) Acenaphthene              | 14.288 | 154  | 1450     | 0.344 | ng    | 98       |
| 18) Fluorene                  | 15.282 | 166  | 1824     | 0.337 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.378 | 198  | 199      | 0.452 | ng    | # 82     |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 520      | 0.354 | ng    | 88       |
| 22) Hexachlorobenzene         | 16.288 | 284  | 639      | 0.375 | ng    | 97       |
| 23) Atrazine                  | 16.462 | 200  | 174      | 0.133 | ng    | # 79     |
| 24) Pentachlorophenol         | 16.636 | 266  | 563      | 0.674 | ng    | 98       |
| 25) Phenanthrene              | 17.008 | 178  | 2535     | 0.354 | ng    | 98       |
| 26) Anthracene                | 17.108 | 178  | 2265     | 0.346 | ng    | 98       |
| 28) Fluoranthene              | 19.040 | 202  | 2616     | 0.312 | ng    | 98       |
| 30) Pyrene                    | 19.407 | 202  | 2606     | 0.354 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.152 | 228  | 1822     | 0.345 | ng    | 97       |
| 33) Chrysene                  | 21.206 | 228  | 2488     | 0.378 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.099 | 149  | 1409     | 0.358 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.540 | 276  | 2342     | 0.455 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.702 | 252  | 1986     | 0.425 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.745 | 252  | 2165     | 0.402 | ng    | 96       |
| 39) Benzo(a)pyrene            | 23.260 | 252  | 1765     | 0.420 | ng    | 93       |
| 40) Dibenzo(a,h)anthracene    | 25.558 | 278  | 1744     | 0.446 | ng    | 94       |
| 41) Benzo(g,h,i)perylene      | 26.210 | 276  | 2014     | 0.422 | ng    | 95       |

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

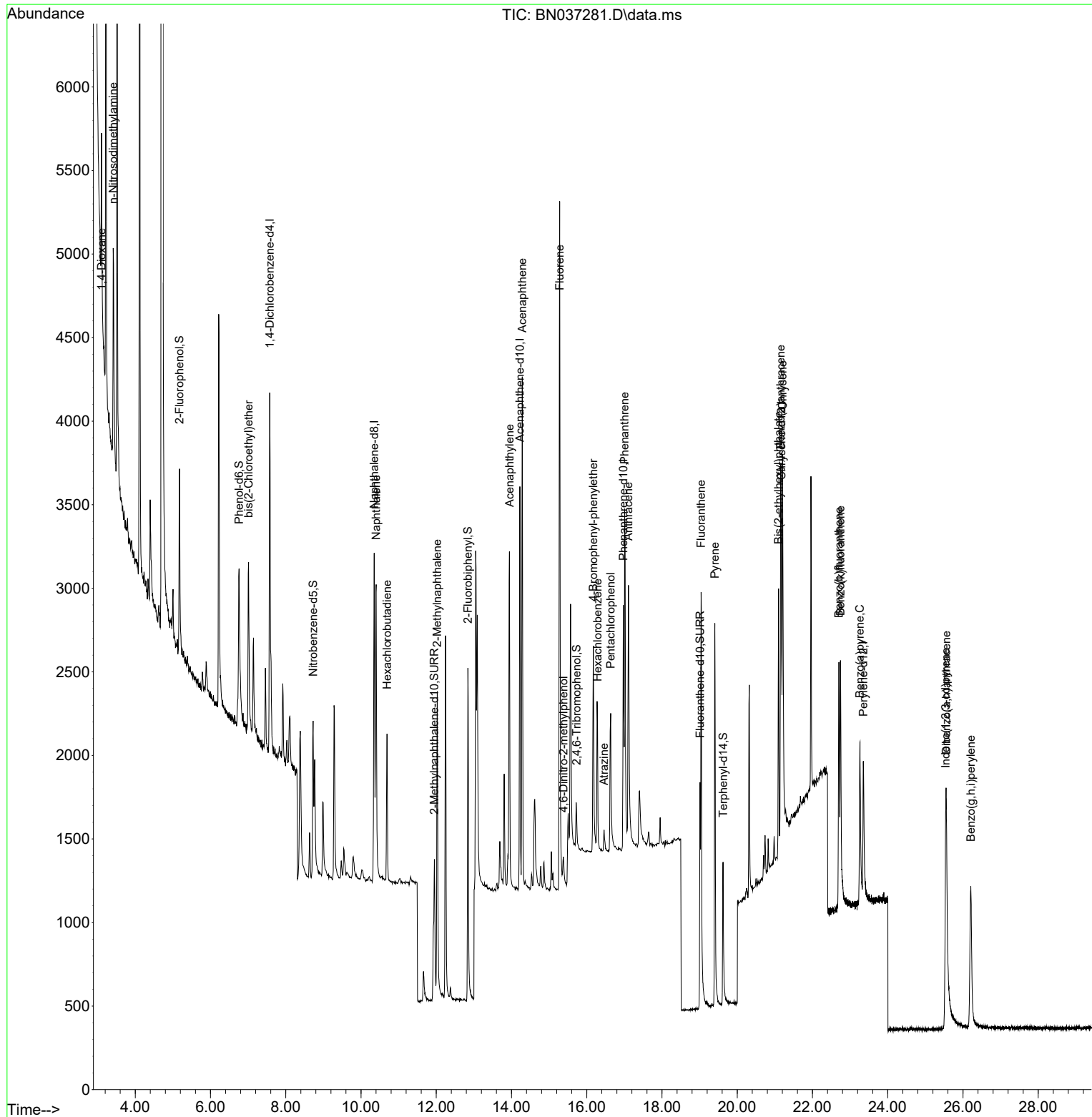
Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037281.D  
Acq On : 15 Jun 2025 03:18  
Operator : RC/JU  
Sample : PB168476BSD  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

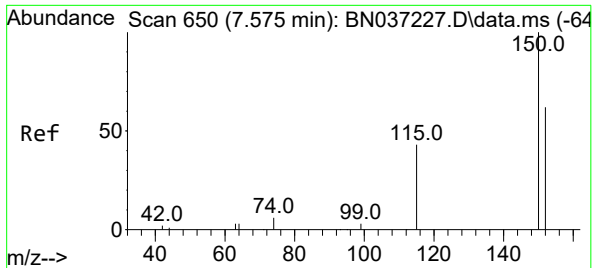
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

Quant Time: Jun 16 02:47:33 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 2025  
Response via : Initial Calibration

Manual Integrations  
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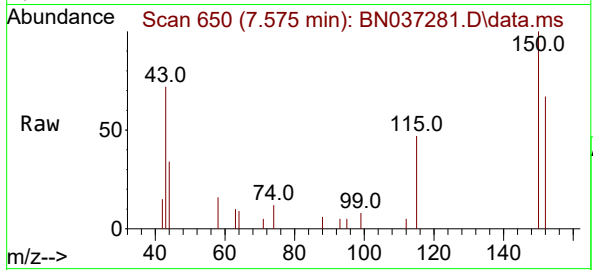
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025





#1  
1,4-Dichlorobenzene-d4  
Concen: 0.400 ng  
RT: 7.575 min Scan# 61  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

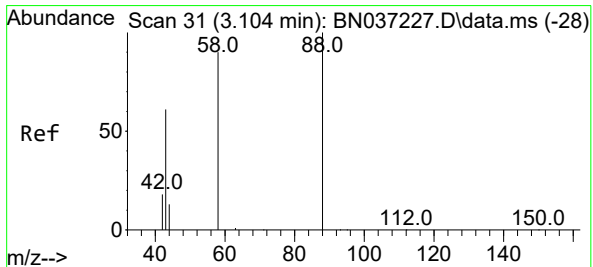
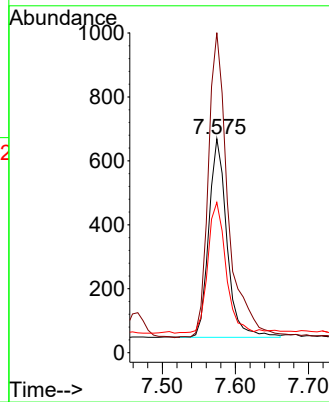
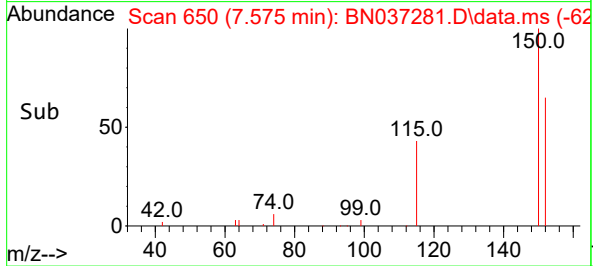
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD



Tgt Ion: 152 Resp: 1070  
Ion Ratio Lower Upper  
152 100  
150 149.6 125.2 187.8  
115 70.3 58.4 87.6

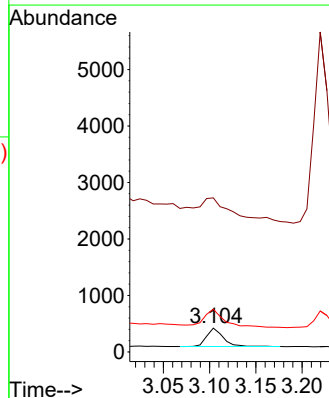
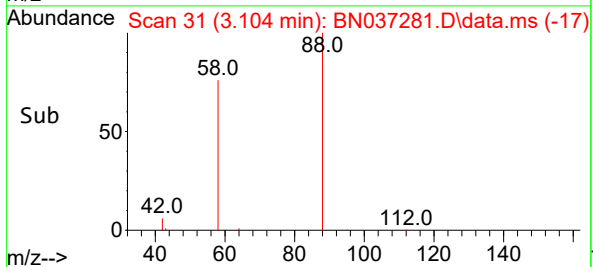
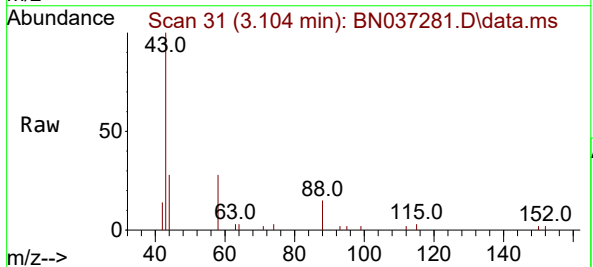
Manual Integrations  
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Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

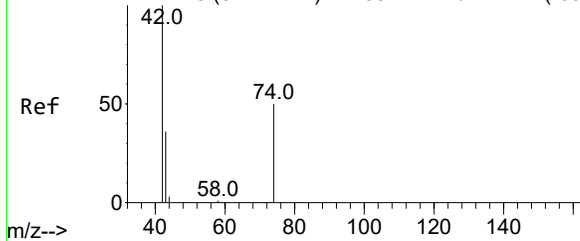


#2  
1,4-Dioxane  
Concen: 0.280 ng  
RT: 3.104 min Scan# 31  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Tgt Ion: 88 Resp: 411  
Ion Ratio Lower Upper  
88 100  
43 228.7 52.6 79.0#  
58 118.2 73.5 110.3#



Abundance Scan 75 (3.422 min): BN037227.D\data.ms (-69)



#3

n-Nitrosodimethylamine

Concen: 0.347 ng

RT: 3.415 min Scan# 74

Delta R.T. -0.007 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

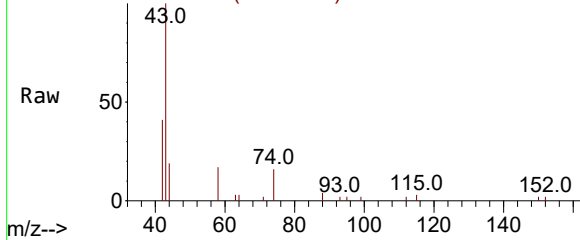
Instrument :

BNA\_N

ClientSampleId :

PB168476BSD

Abundance Scan 74 (3.415 min): BN037281.D\data.ms



Tgt Ion: 42 Resp: 116

Ion Ratio Lower Upper

42 100

74 54.3 44.6 66.8

44 5.7 3.5 5.3

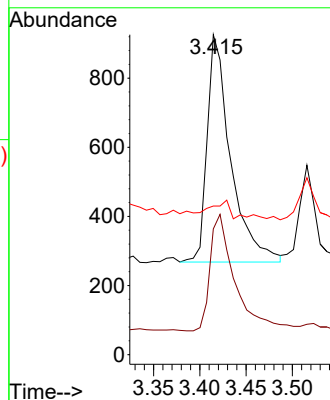
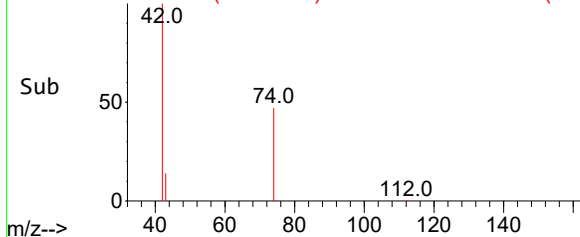
Manual Integrations

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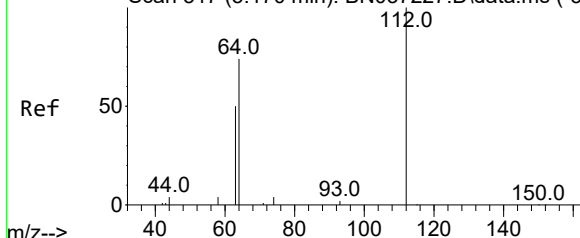
Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025

Abundance Scan 74 (3.415 min): BN037281.D\data.ms (-54)



Abundance Scan 317 (5.170 min): BN037227.D\data.ms (-31)



#4

2-Fluorophenol

Concen: 0.334 ng

RT: 5.177 min Scan# 318

Delta R.T. 0.007 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Tgt Ion: 112 Resp: 878

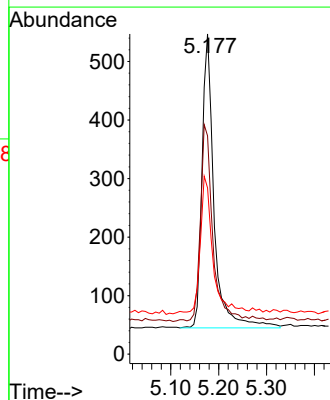
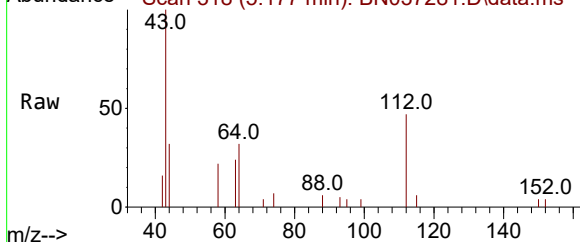
Ion Ratio Lower Upper

112 100

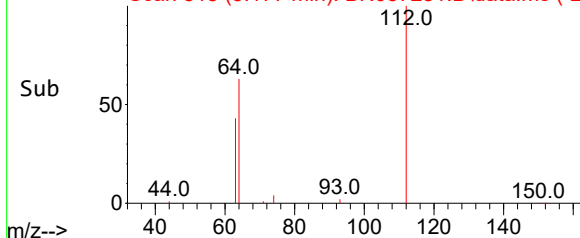
64 68.8 57.2 85.8

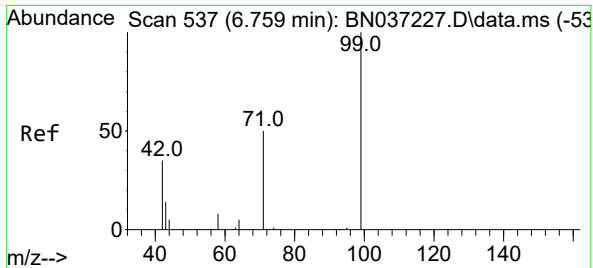
63 49.0 39.8 59.6

Abundance Scan 318 (5.177 min): BN037281.D\data.ms



Abundance Scan 318 (5.177 min): BN037281.D\data.ms (-28)





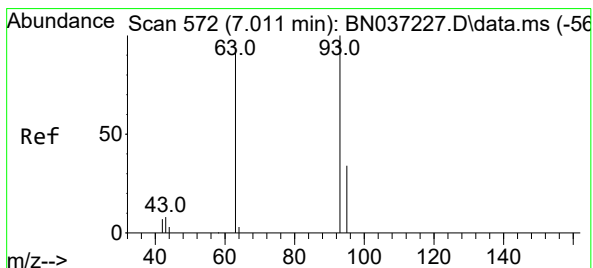
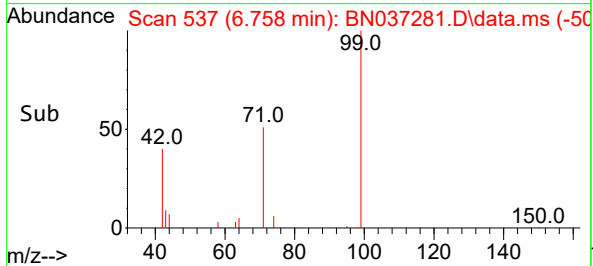
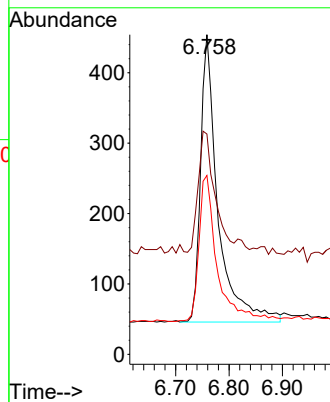
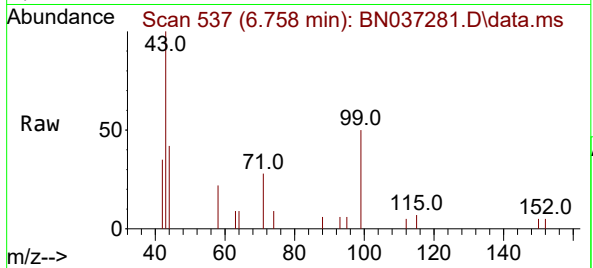
#5  
Phenol-d6  
Concen: 0.333 ng  
RT: 6.758 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

Tgt Ion: 99 Resp: 92  
Ion Ratio Lower Upper  
99 100  
42 40.3 36.2 54.4  
71 53.3 42.4 63.6

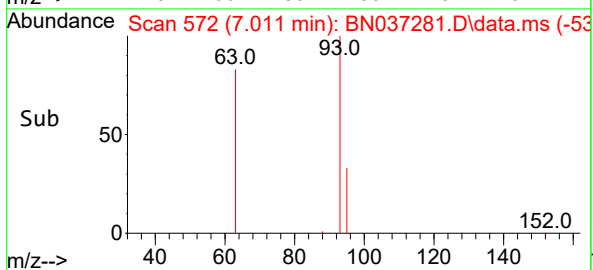
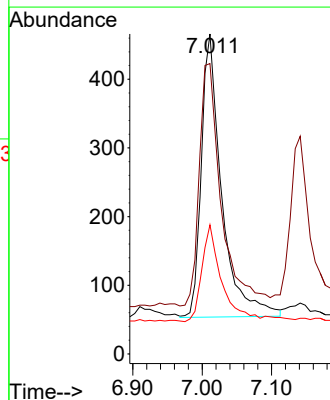
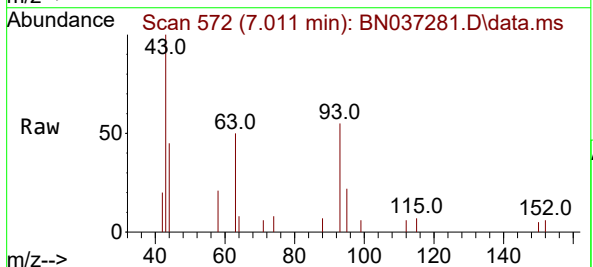
Manual Integrations  
**APPROVED**

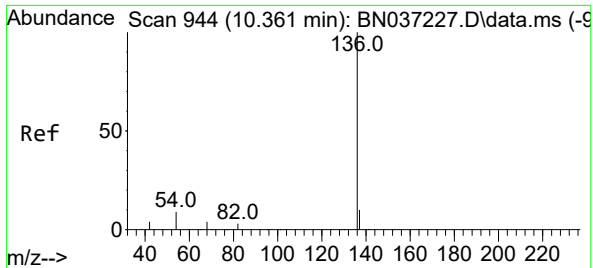
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#6  
bis(2-Chloroethyl)ether  
Concen: 0.339 ng  
RT: 7.011 min Scan# 572  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

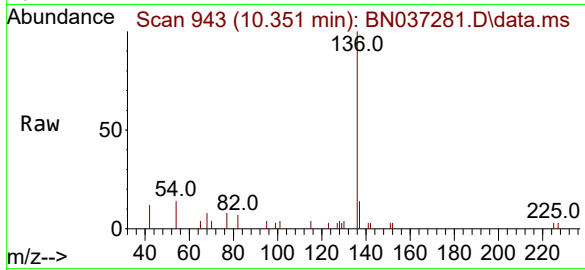
Tgt Ion: 93 Resp: 840  
Ion Ratio Lower Upper  
93 100  
63 92.6 75.2 112.8  
95 33.0 28.3 42.5





#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 944  
Delta R.T. -0.011 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

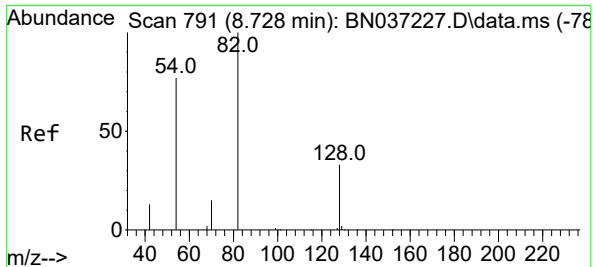
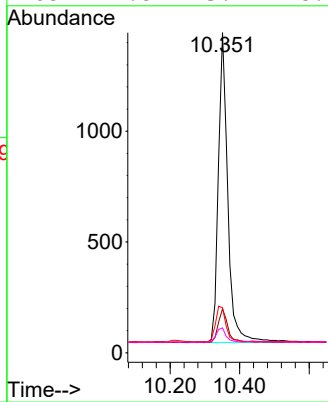
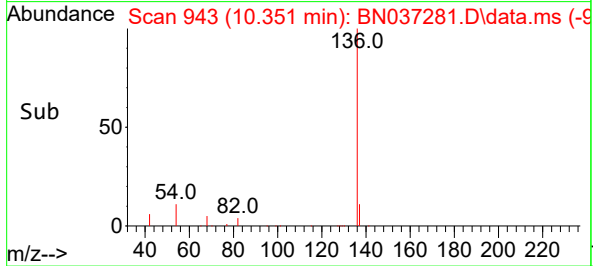
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD



Tgt Ion:136 Resp: 2630  
Ion Ratio Lower Upper  
136 100  
137 13.7 10.6 15.8  
54 14.0 9.2 13.8  
68 7.8 5.4 8.0

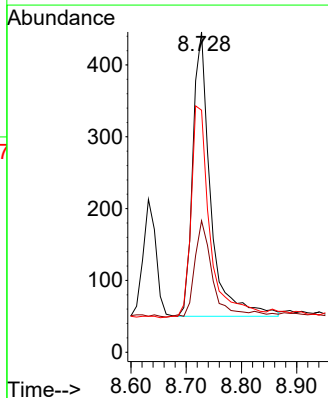
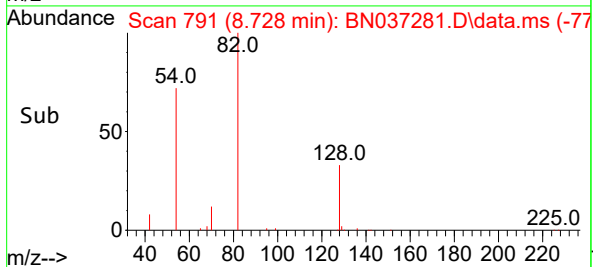
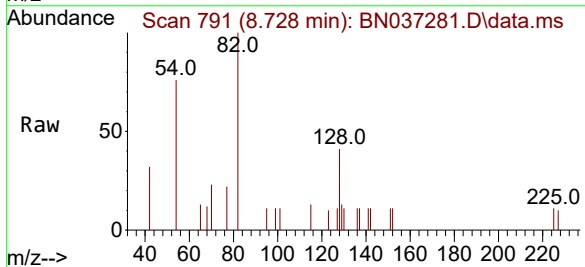
Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

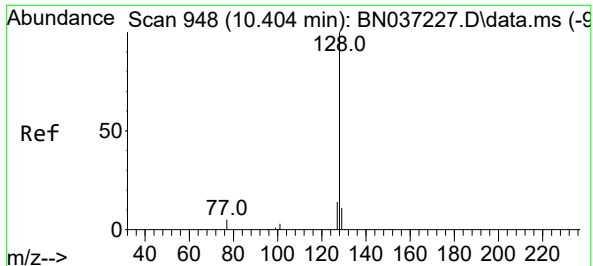


#8  
Nitrobenzene-d5  
Concen: 0.340 ng  
RT: 8.728 min Scan# 791  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Tgt Ion: 82 Resp: 885  
Ion Ratio Lower Upper  
82 100  
128 41.0 31.2 46.8  
54 75.6 63.3 94.9







#9

Naphthalene

Concen: 0.346 ng

RT: 10.404 min Scan# 948

Delta R.T. -0.000 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

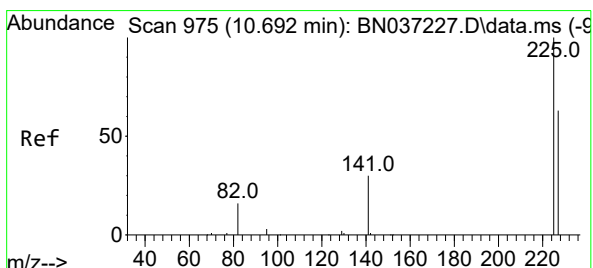
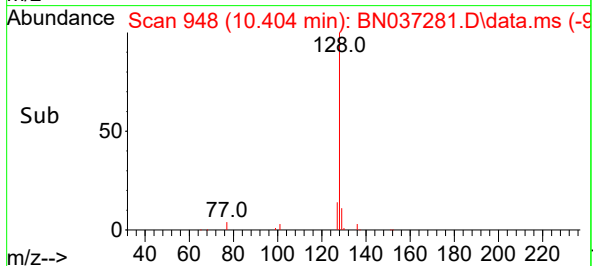
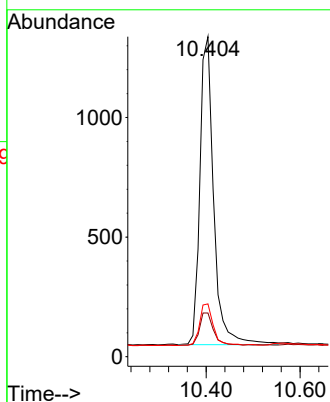
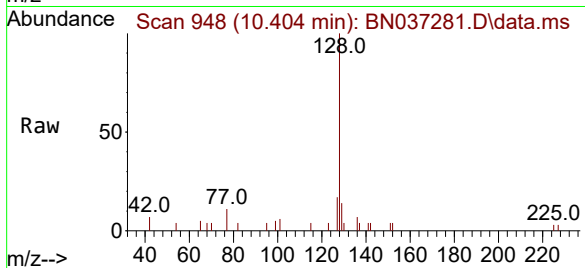
Instrument :

BNA\_N

ClientSampleId :

PB168476BSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 2630  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 13.7  | 10.7  | 16.1  |
| 127      | 16.5  | 12.6  | 19.0  |

Manual Integrations  
APPROVEDReviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

#10

Hexachlorobutadiene

Concen: 0.372 ng

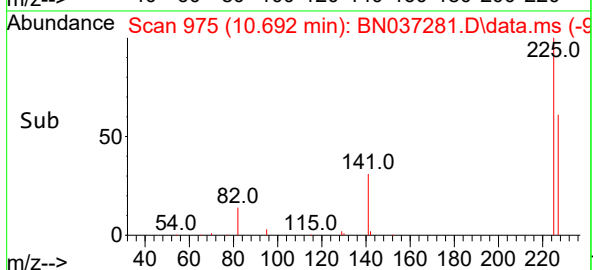
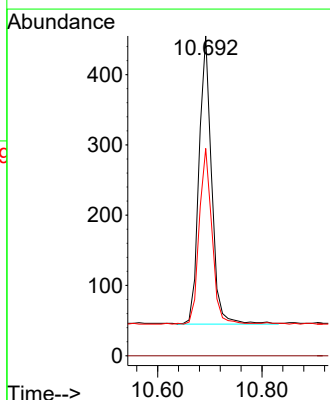
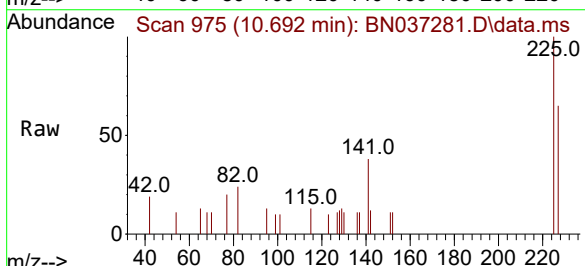
RT: 10.692 min Scan# 975

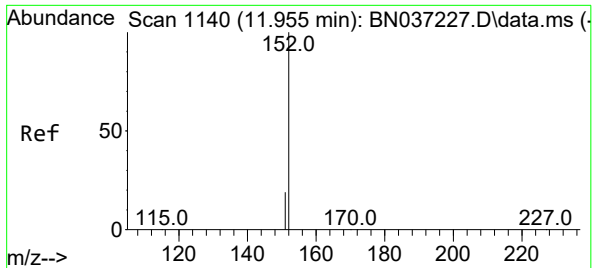
Delta R.T. -0.000 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 689   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 61.4  | 49.2  | 73.8  |





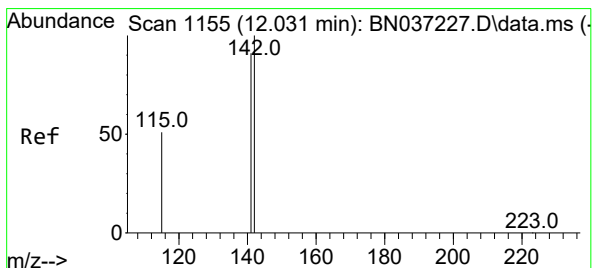
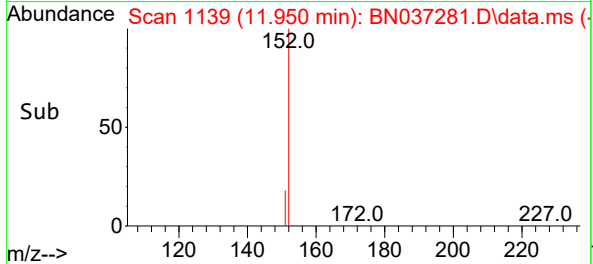
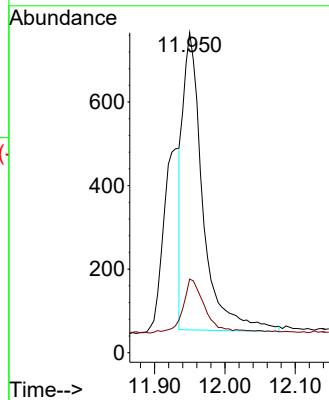
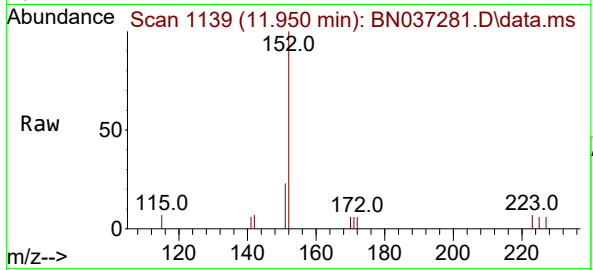
#11  
2-Methylnaphthalene-d10  
Concen: 0.397 ng m  
RT: 11.950 min Scan# 1139  
Delta R.T. -0.005 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

Tgt Ion:152 Resp: 140  
Ion Ratio Lower Upper  
152 100  
151 20.5 17.9 26.9

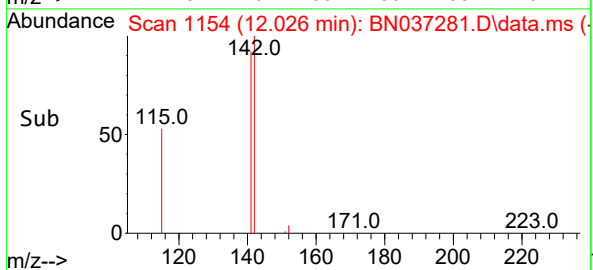
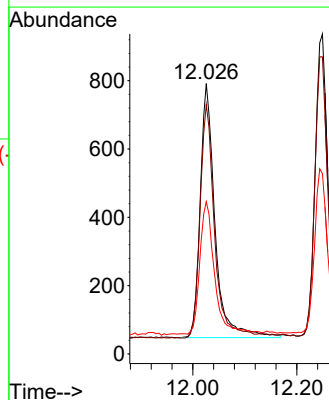
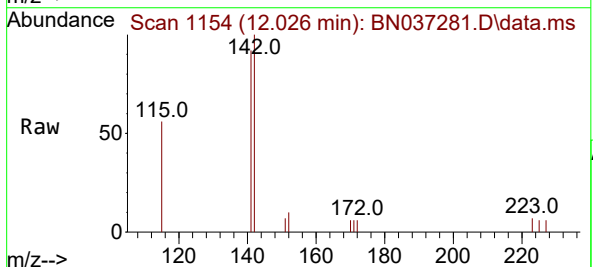
Manual Integrations  
**APPROVED**

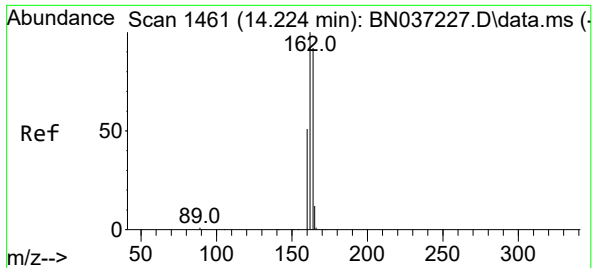
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#12  
2-Methylnaphthalene  
Concen: 0.317 ng  
RT: 12.026 min Scan# 1154  
Delta R.T. -0.005 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

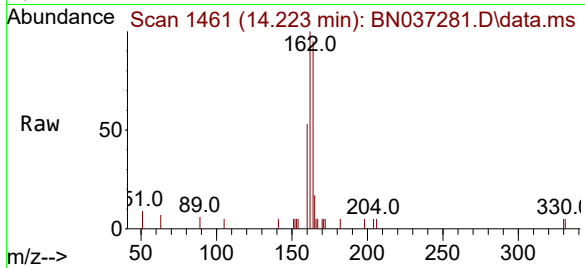
Tgt Ion:142 Resp: 1469  
Ion Ratio Lower Upper  
142 100  
141 92.2 73.0 109.6  
115 56.3 43.3 64.9





#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.223 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

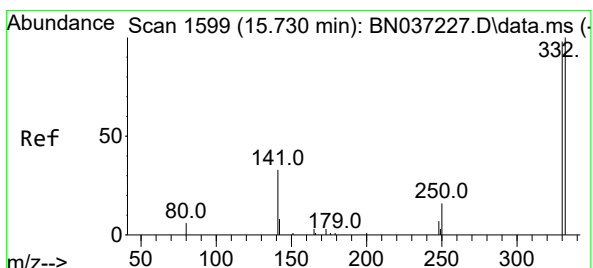
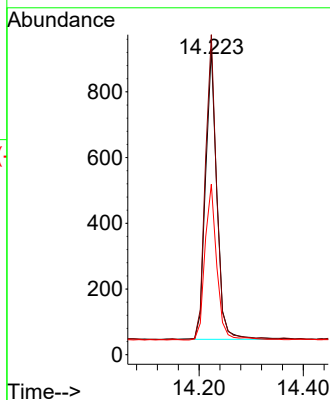
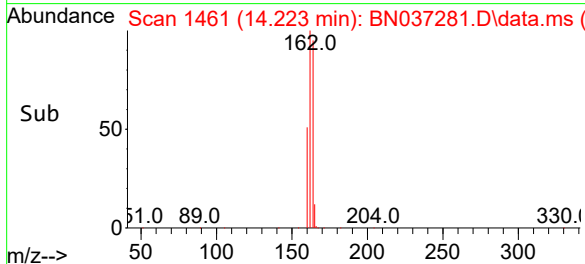
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD



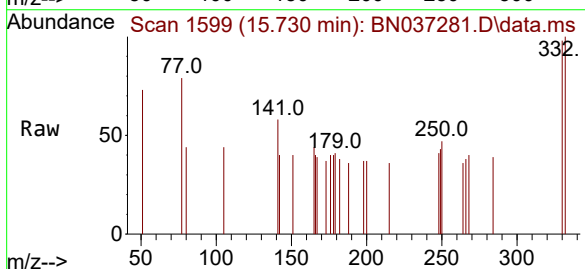
Tgt Ion:164 Resp: 133  
Ion Ratio Lower Upper  
164 100  
162 104.7 86.7 130.1  
160 55.8 45.8 68.6

Manual Integrations  
**APPROVED**

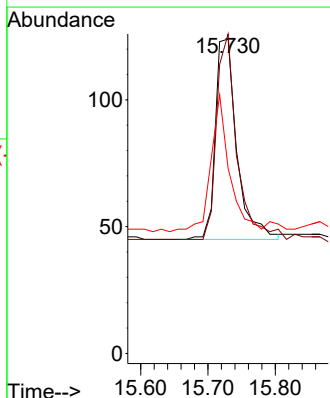
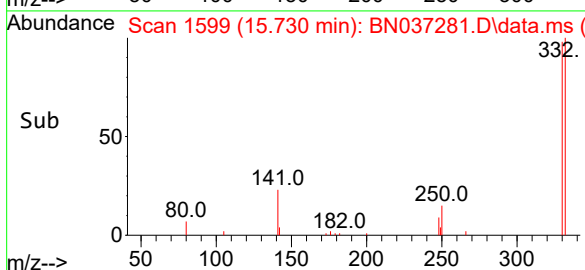
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

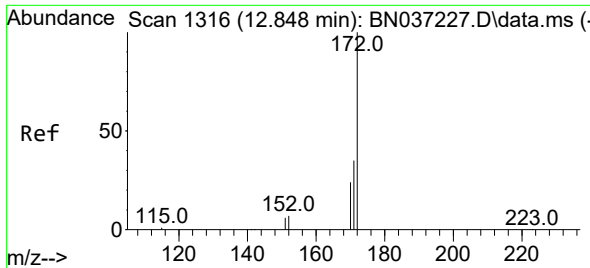


#14  
2,4,6-Tribromophenol  
Concen: 0.316 ng  
RT: 15.730 min Scan# 1599  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18



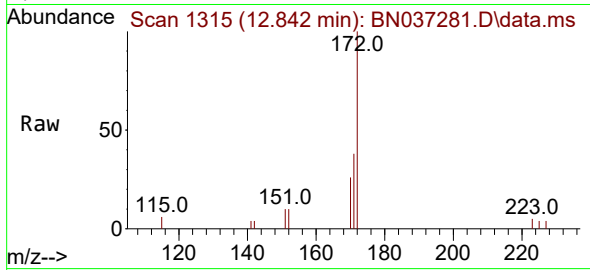
Tgt Ion:330 Resp: 175  
Ion Ratio Lower Upper  
330 100  
332 98.9 74.9 112.3  
141 59.4 45.1 67.7





#15  
2-Fluorobiphenyl  
Concen: 0.357 ng  
RT: 12.842 min Scan# 1316  
Delta R.T. -0.005 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

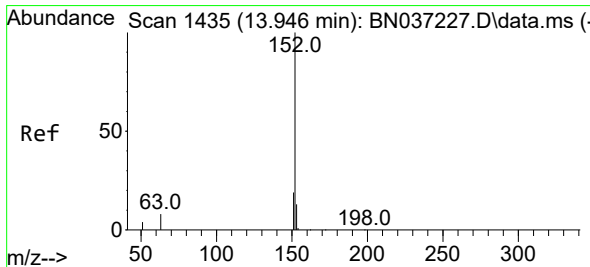
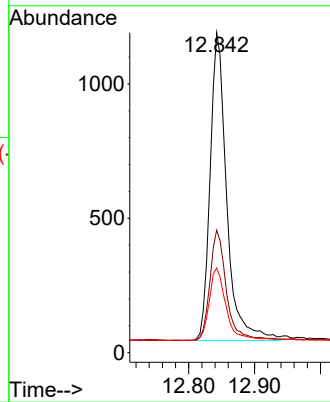
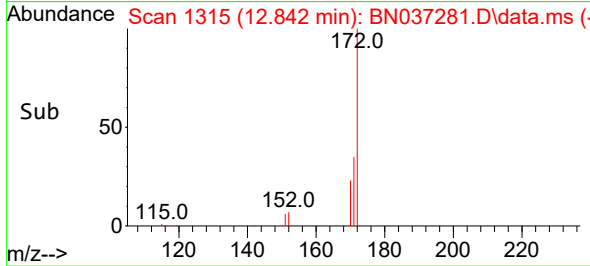
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD



Tgt Ion:172 Resp: 2000  
Ion Ratio Lower Upper  
172 100  
171 38.3 29.8 44.8  
170 26.4 21.1 31.7

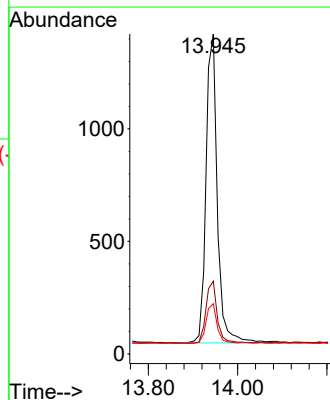
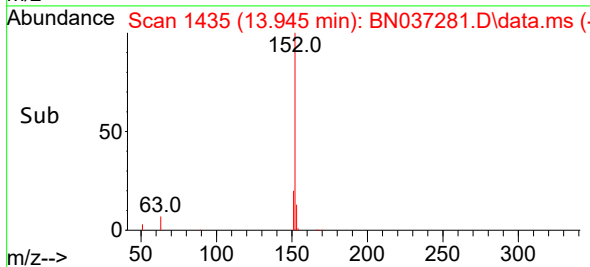
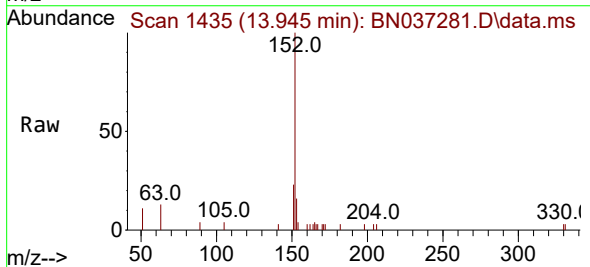
Manual Integrations  
**APPROVED**

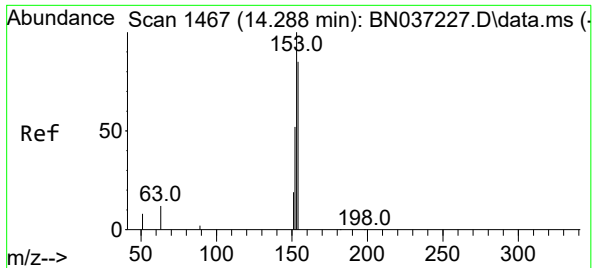
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#16  
Acenaphthylene  
Concen: 0.368 ng  
RT: 13.945 min Scan# 1435  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

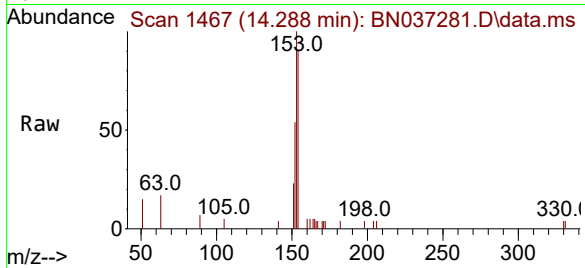
Tgt Ion:152 Resp: 2403  
Ion Ratio Lower Upper  
152 100  
151 19.8 15.7 23.5  
153 13.0 10.7 16.1





#17  
Acenaphthene  
Concen: 0.344 ng  
RT: 14.288 min Scan# 1467  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

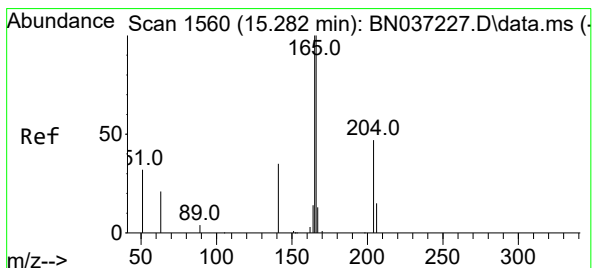
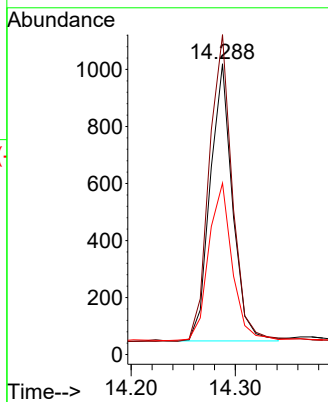
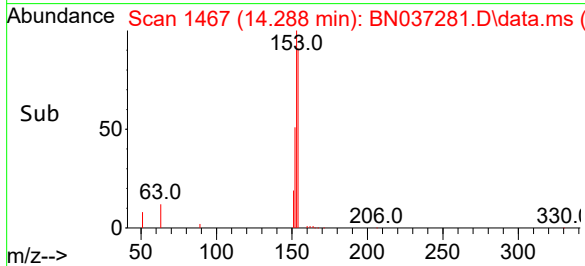
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD



Tgt Ion:154 Resp: 1450  
Ion Ratio Lower Upper  
154 100  
153 116.8 94.6 141.8  
152 60.1 49.6 74.4

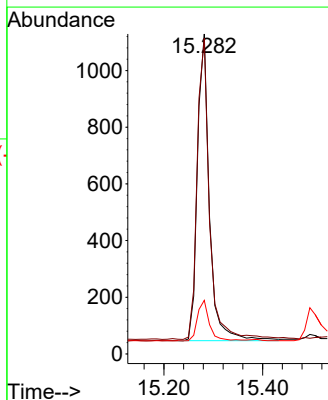
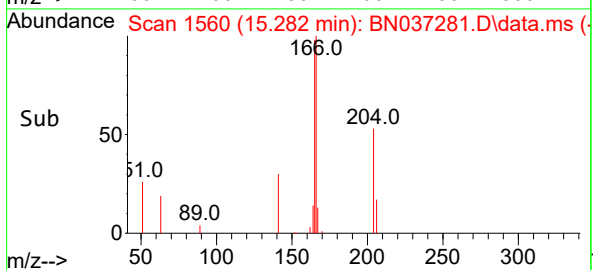
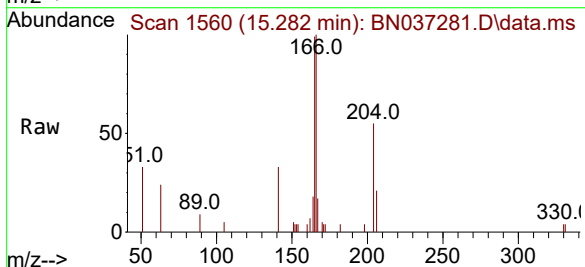
Manual Integrations  
APPROVED

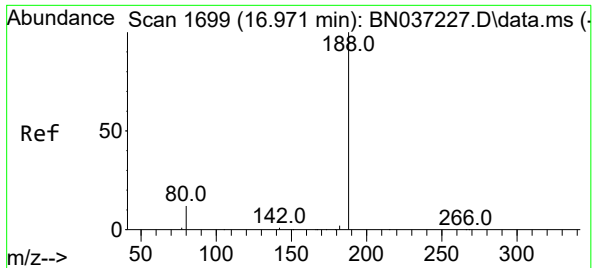
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#18  
Fluorene  
Concen: 0.337 ng  
RT: 15.282 min Scan# 1560  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Tgt Ion:166 Resp: 1824  
Ion Ratio Lower Upper  
166 100  
165 101.3 79.8 119.6  
167 13.2 10.8 16.2





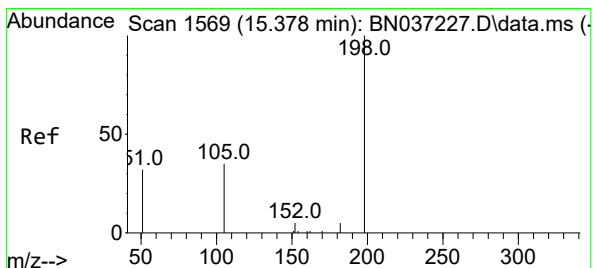
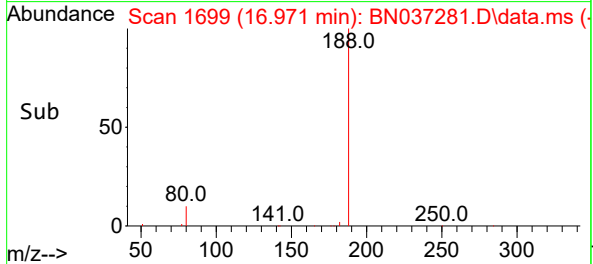
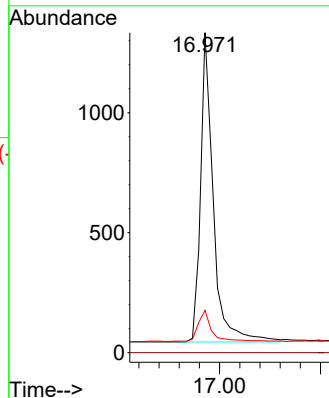
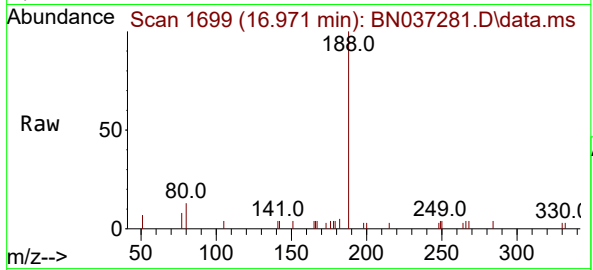
#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.971 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

Tgt Ion:188 Resp: 2250  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.3 12.2 18.4

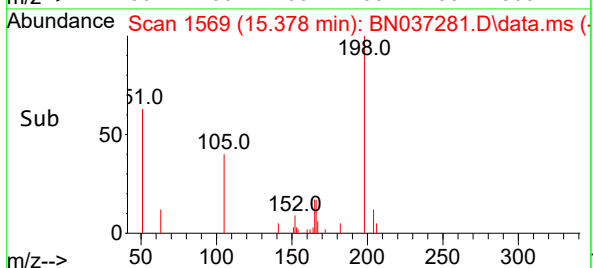
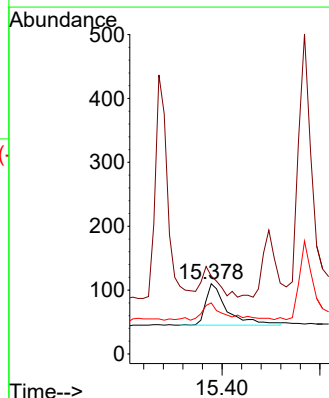
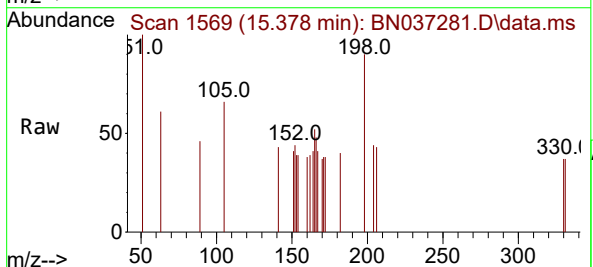
Manual Integrations  
**APPROVED**

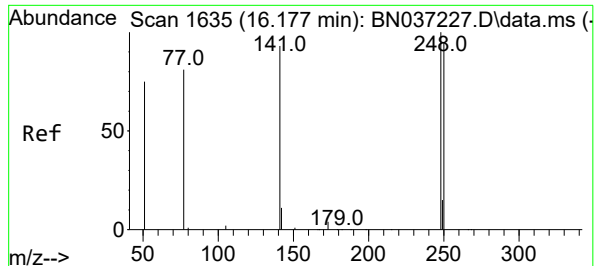
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.452 ng  
RT: 15.378 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

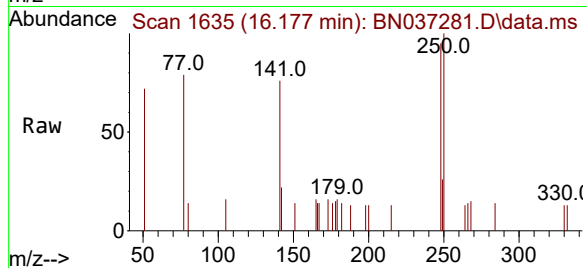
Tgt Ion:198 Resp: 199  
Ion Ratio Lower Upper  
198 100  
51 110.9 111.2 166.8#  
105 72.7 54.0 81.0





#21  
4-Bromophenyl-phenylether  
Concen: 0.354 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

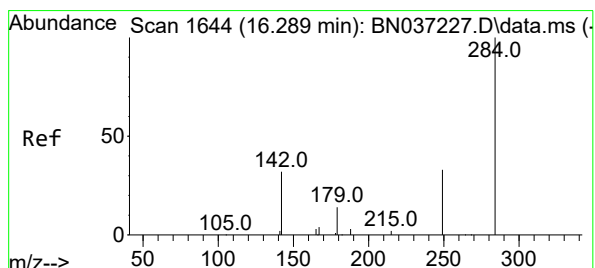
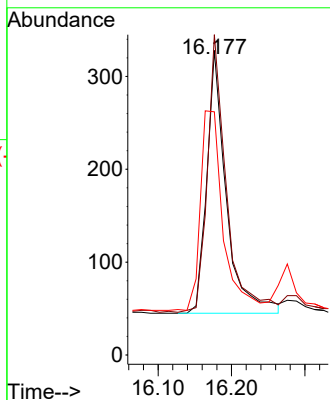
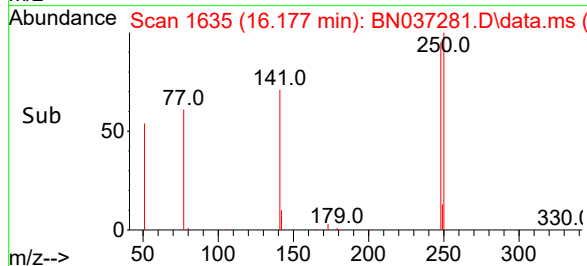
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD



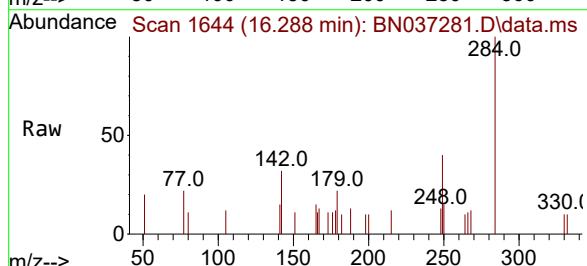
Tgt Ion:248 Resp: 520  
Ion Ratio Lower Upper  
248 100  
250 105.2 76.8 115.2  
141 79.9 75.6 113.4

Manual Integrations  
APPROVED

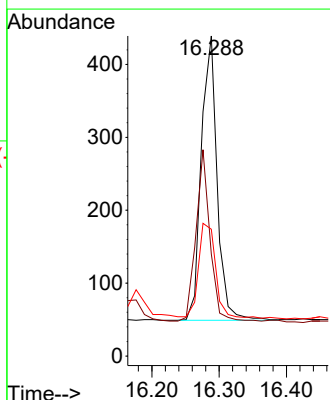
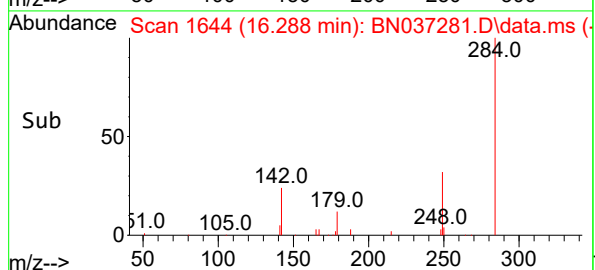
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

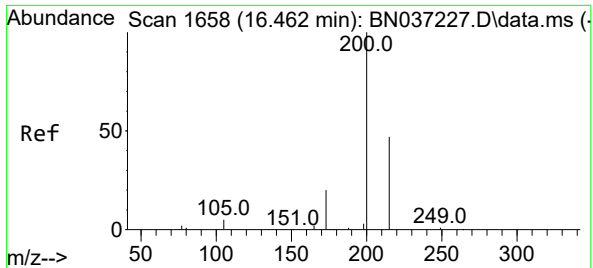


#22  
Hexachlorobenzene  
Concen: 0.375 ng  
RT: 16.288 min Scan# 1644  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18



Tgt Ion:284 Resp: 639  
Ion Ratio Lower Upper  
284 100  
142 53.4 43.8 65.6  
249 38.3 28.4 42.6





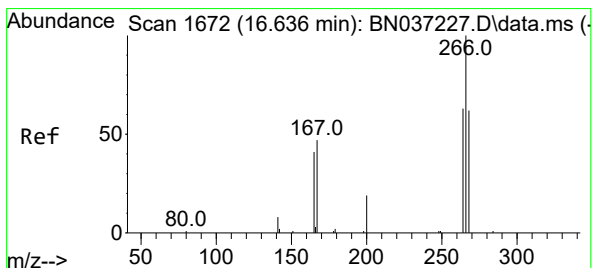
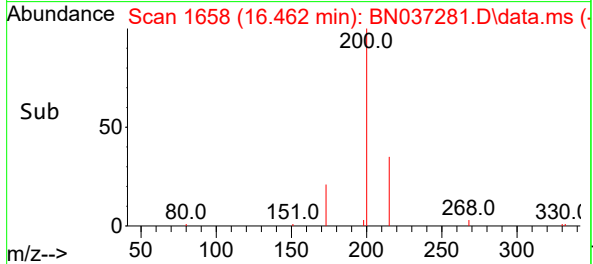
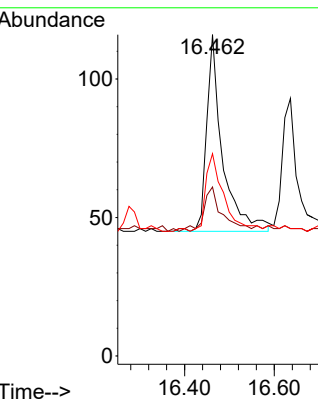
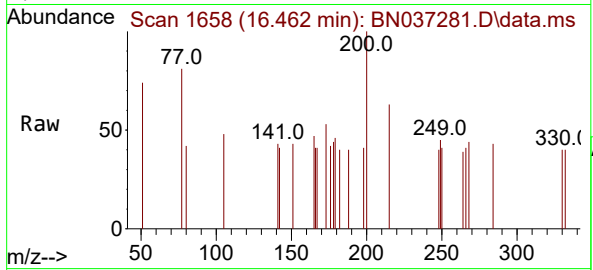
#23  
Atrazine  
Concen: 0.133 ng  
RT: 16.462 min Scan# 1658  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

Tgt Ion:200 Resp: 174  
Ion Ratio Lower Upper  
200 100  
173 52.6 25.1 37.7  
215 62.9 43.7 65.5

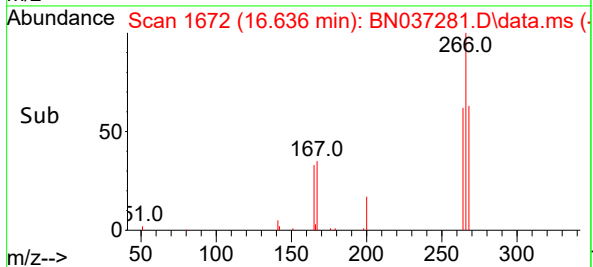
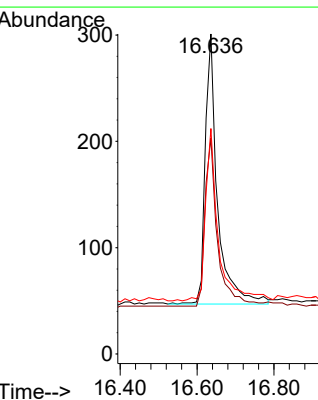
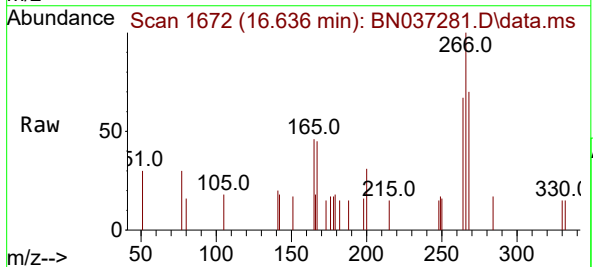
Manual Integrations  
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Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

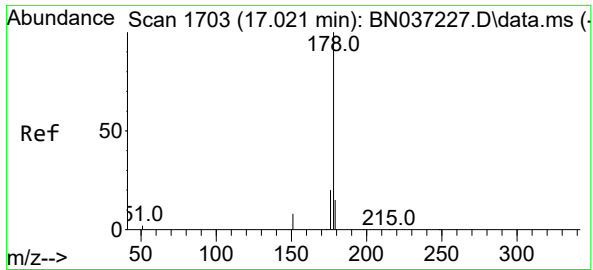


#24  
Pentachlorophenol  
Concen: 0.674 ng  
RT: 16.636 min Scan# 1672  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Tgt Ion:266 Resp: 563  
Ion Ratio Lower Upper  
266 100  
264 63.2 49.2 73.8  
268 65.7 53.4 80.2

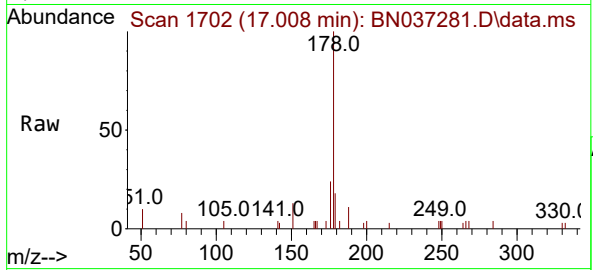






#25  
Phenanthrene  
Concen: 0.354 ng  
RT: 17.008 min Scan# 1702  
Delta R.T. -0.013 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

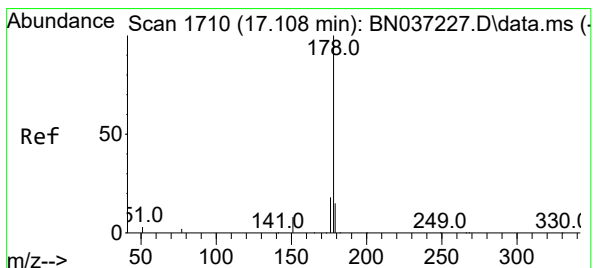
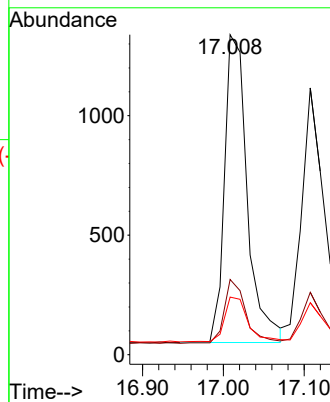
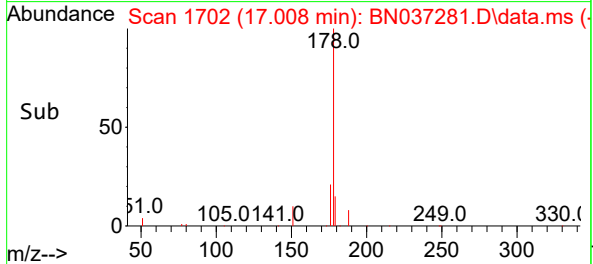
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD



Tgt Ion:178 Resp: 253  
Ion Ratio Lower Upper  
178 100  
176 19.5 16.3 24.5  
179 14.5 12.6 18.8

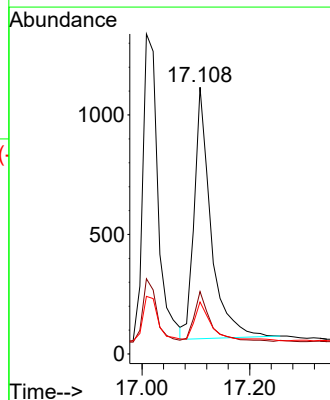
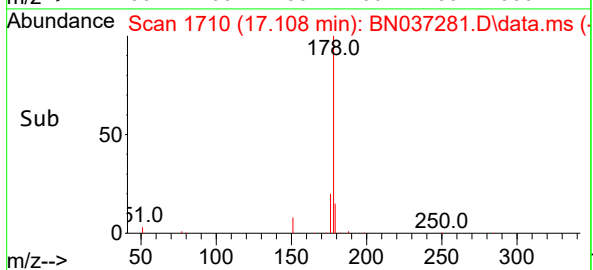
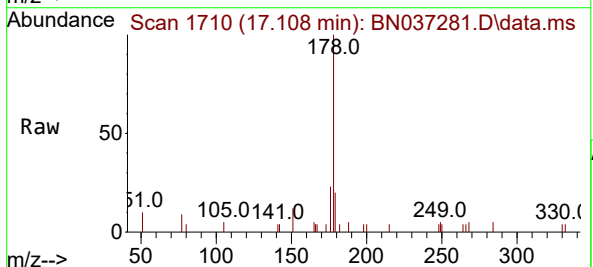
Manual Integrations  
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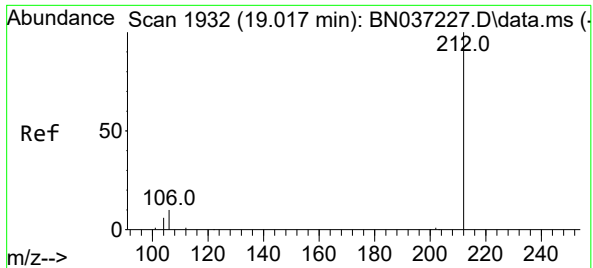
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#26  
Anthracene  
Concen: 0.346 ng  
RT: 17.108 min Scan# 1710  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

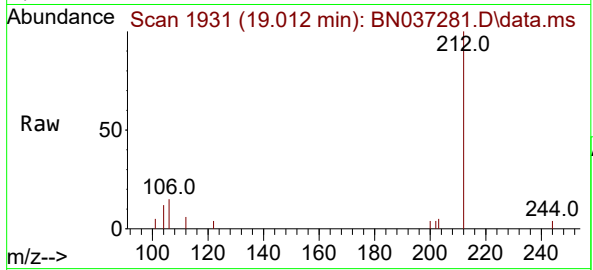
Tgt Ion:178 Resp: 2265  
Ion Ratio Lower Upper  
178 100  
176 20.0 15.1 22.7  
179 16.3 12.4 18.6





#27  
Fluoranthene-d10  
Concen: 0.323 ng  
RT: 19.012 min Scan# 1932  
Delta R.T. -0.005 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

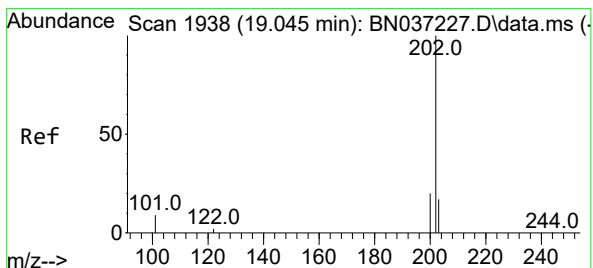
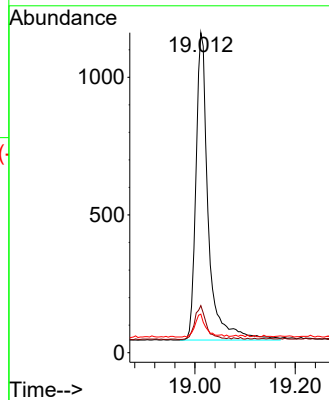
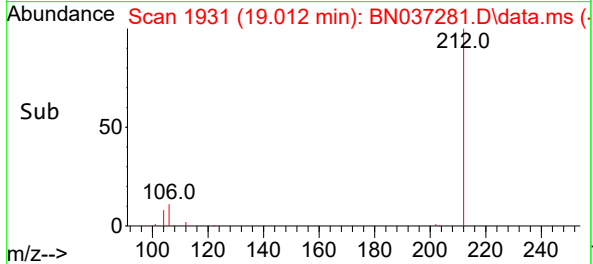
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD



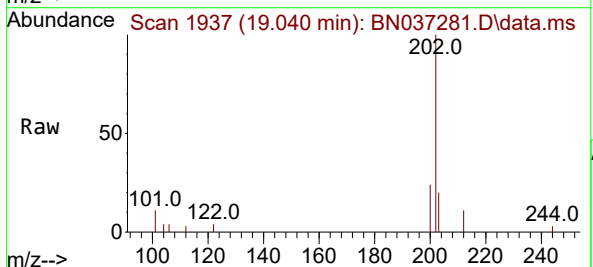
Tgt Ion:212 Resp: 190  
Ion Ratio Lower Upper  
212 100  
106 10.3 9.3 13.9  
104 6.3 5.7 8.5

Manual Integrations  
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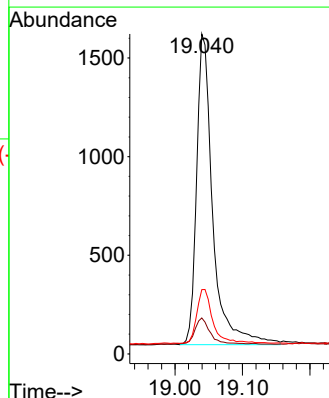
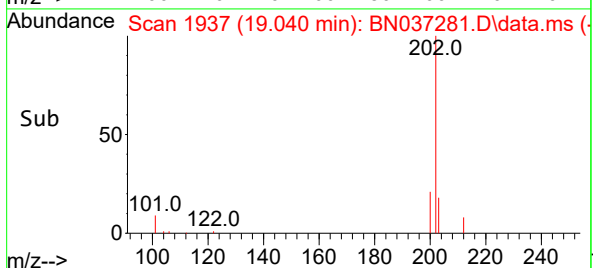
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

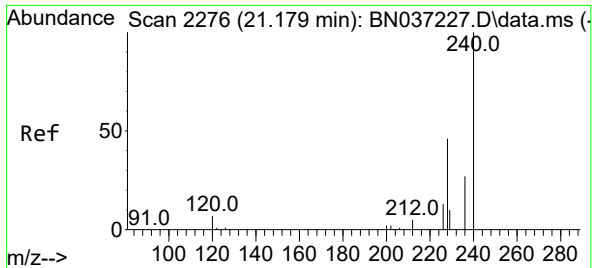


#28  
Fluoranthene  
Concen: 0.312 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.005 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18



Tgt Ion:202 Resp: 2616  
Ion Ratio Lower Upper  
202 100  
101 8.7 7.1 10.7  
203 17.4 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.170 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037281.D

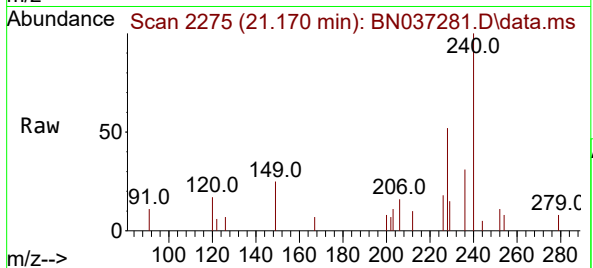
Acq: 15 Jun 2025 03:18

Instrument :

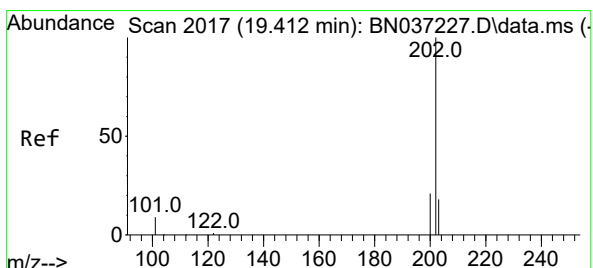
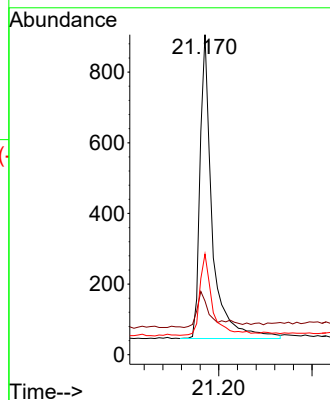
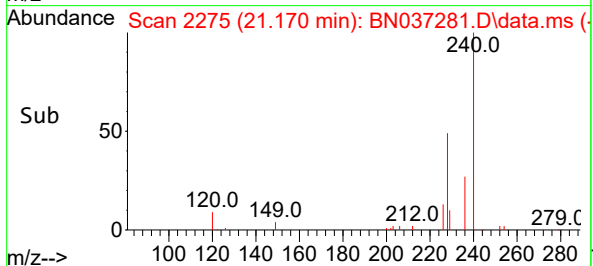
BNA\_N

ClientSampleId :

PB168476BSD



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 240   | Resp: | 156  |
| Ion Ratio | Lower | Upper |      |
| 240       | 100   |       |      |
| 120       | 16.8  | 11.3  | 16.9 |
| 236       | 31.5  | 24.4  | 36.6 |

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**APPROVED**Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

#30

Pyrene

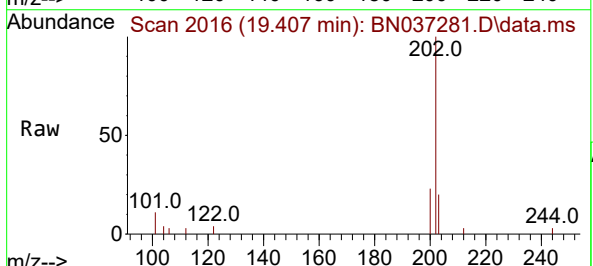
Concen: 0.354 ng

RT: 19.407 min Scan# 2016

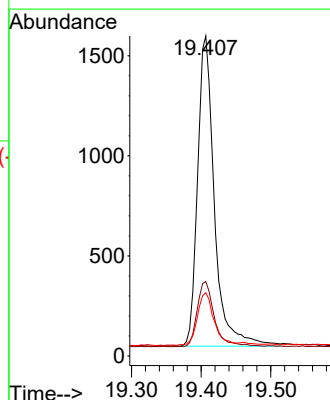
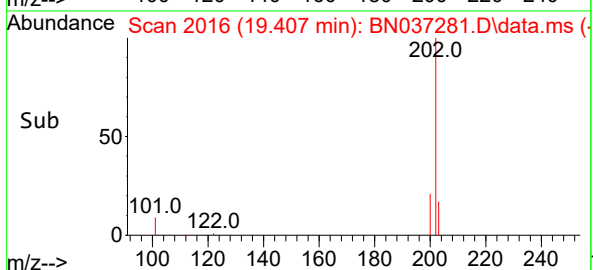
Delta R.T. -0.005 min

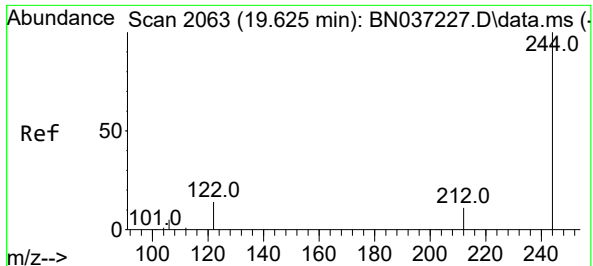
Lab File: BN037281.D

Acq: 15 Jun 2025 03:18



|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 202   | Resp: | 2606 |
| Ion Ratio | Lower | Upper |      |
| 202       | 100   |       |      |
| 200       | 21.5  | 17.2  | 25.8 |
| 203       | 17.1  | 14.3  | 21.5 |





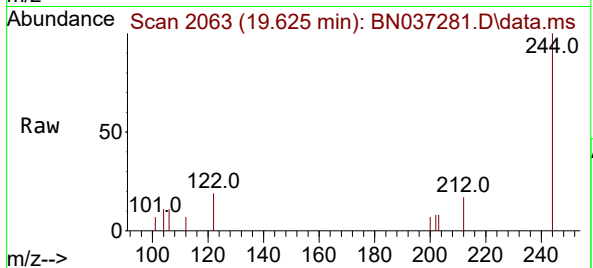
#31  
Terphenyl-d14  
Concen: 0.359 ng  
RT: 19.625 min Scan# 2063  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Instrument :

BNA\_N

ClientSampleId :

PB168476BSD

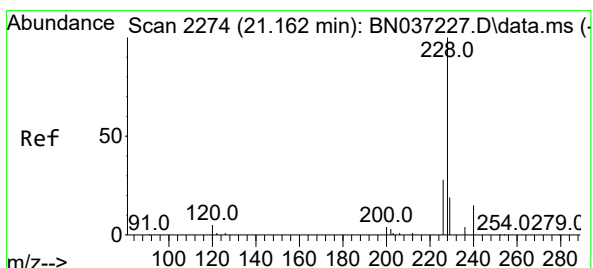
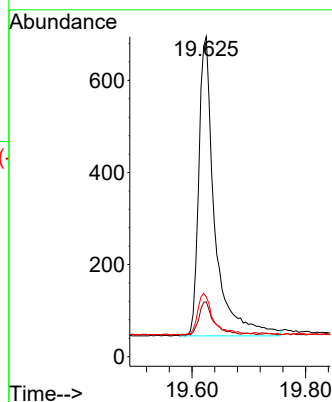
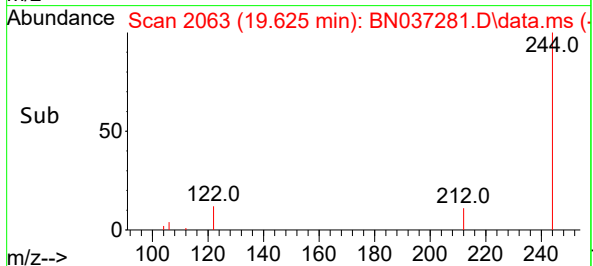


Tgt Ion:244 Resp: 1269  
Ion Ratio Lower Upper  
244 100  
212 17.1 12.2 18.2  
122 18.7 14.3 21.5

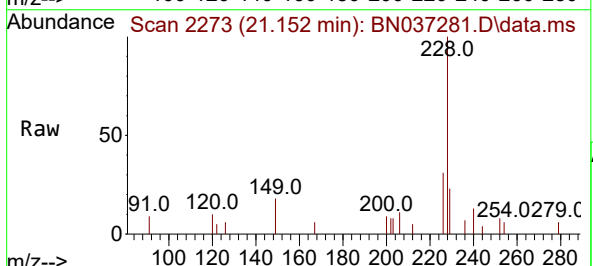
Manual Integrations

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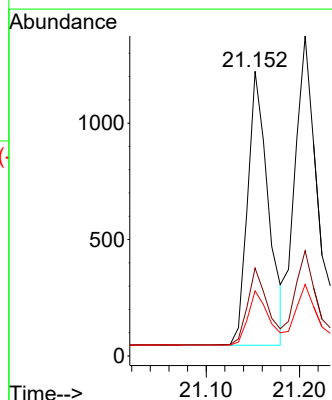
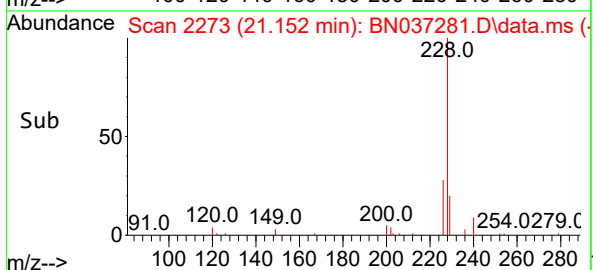
Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

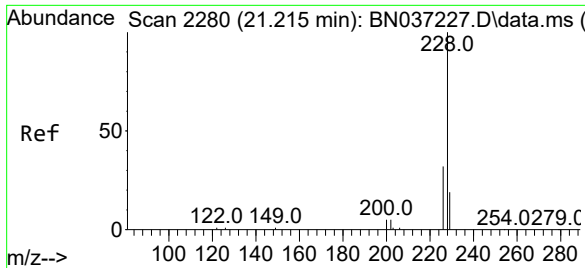


#32  
Benzo(a)anthracene  
Concen: 0.345 ng  
RT: 21.152 min Scan# 2273  
Delta R.T. -0.009 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18



Tgt Ion:228 Resp: 1822  
Ion Ratio Lower Upper  
228 100  
226 30.9 23.8 35.8  
229 22.9 17.0 25.4





#33

Chrysene

Concen: 0.378 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

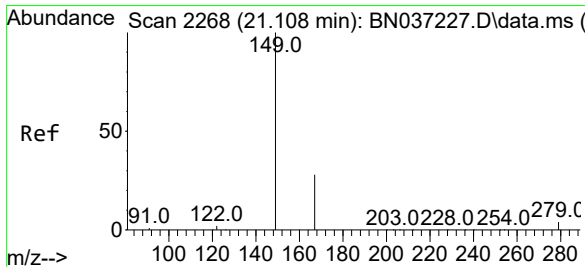
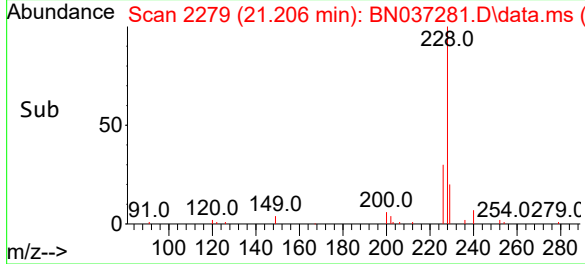
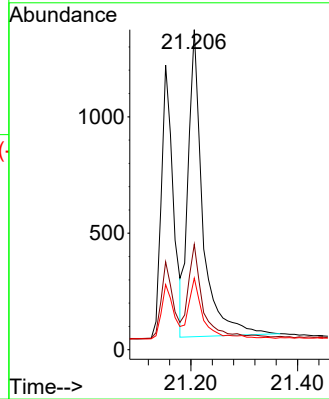
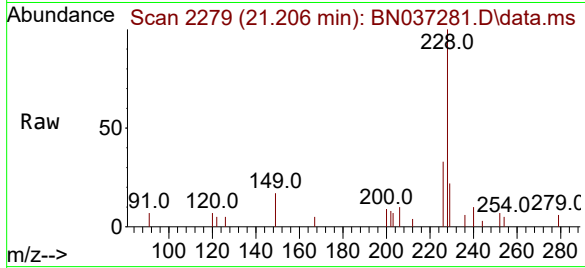
Instrument :

BNA\_N

ClientSampleId :

PB168476BSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 248  |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 32.9  | 25.8  | 38.6 |
| 229       | 22.3  | 17.0  | 25.4 |

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**APPROVED**Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025

#34

Bis(2-ethylhexyl)phthalate

Concen: 0.358 ng

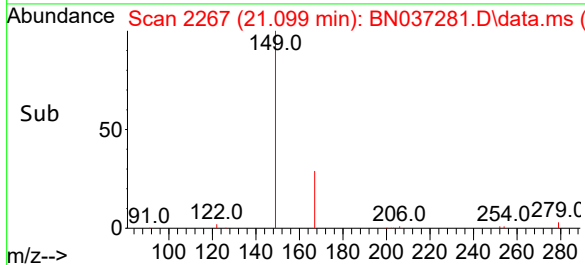
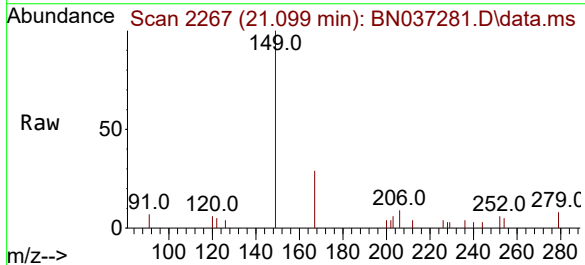
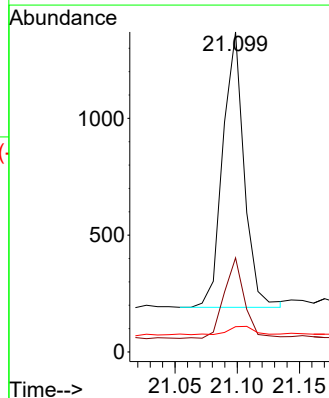
RT: 21.099 min Scan# 2267

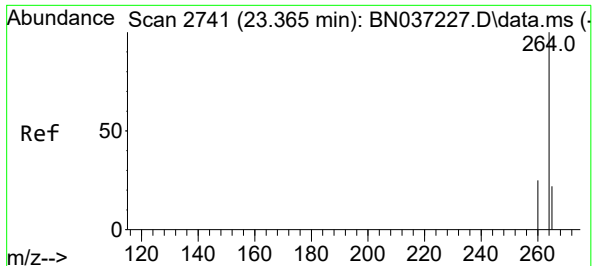
Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 149   | Resp: | 1409 |
| Ion Ratio | Lower | Upper |      |
| 149       | 100   |       |      |
| 167       | 28.0  | 21.3  | 31.9 |
| 279       | 3.7   | 3.3   | 4.9  |





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.354 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037281.D

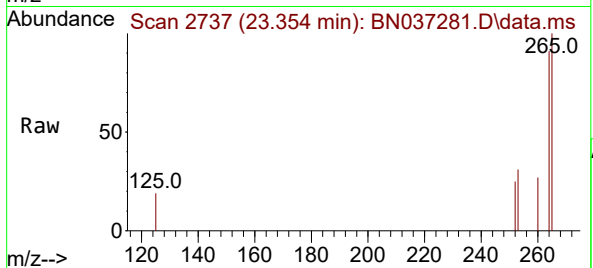
Acq: 15 Jun 2025 03:18

Instrument :

BNA\_N

ClientSampleId :

PB168476BSD



Tgt Ion:264 Resp: 1270

Ion Ratio Lower Upper

264 100

260 30.0 22.8 34.2

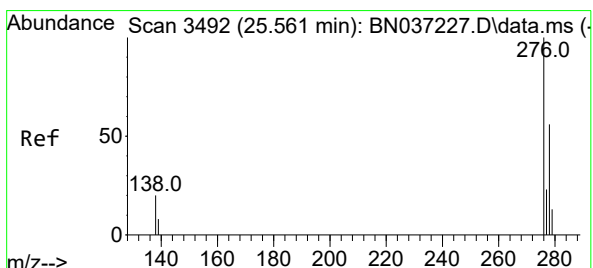
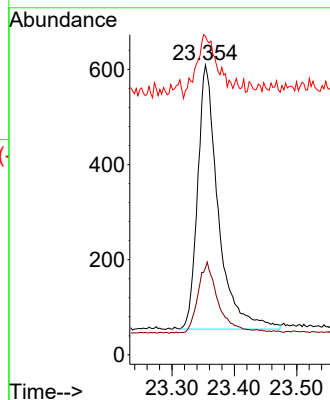
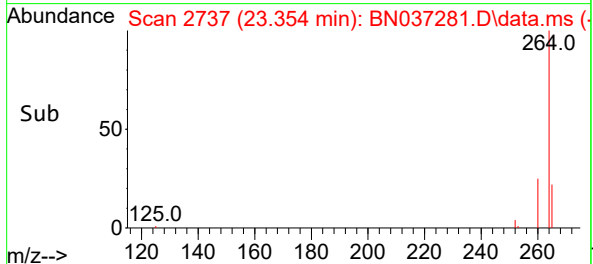
265 110.0 66.4 99.6

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#36

Indeno(1,2,3-cd)pyrene

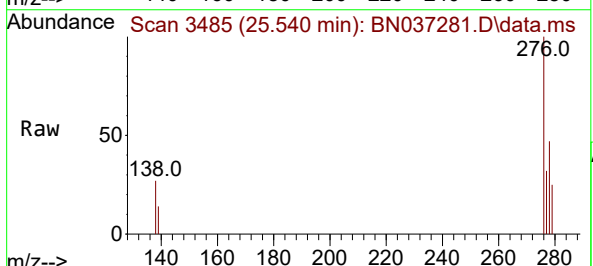
Concen: 0.455 ng

RT: 25.540 min Scan# 3485

Delta R.T. -0.021 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18



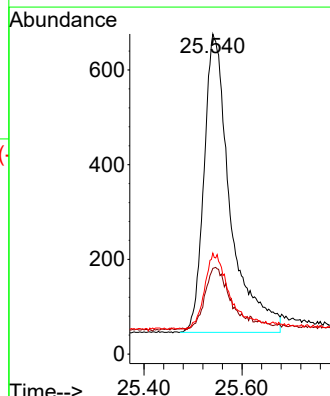
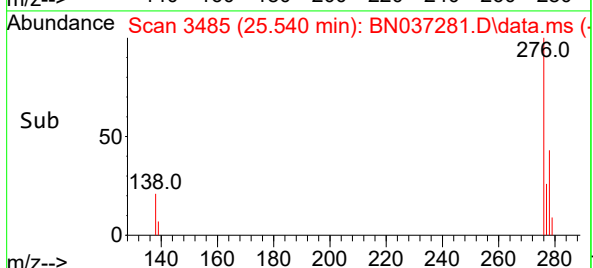
Tgt Ion:276 Resp: 2342

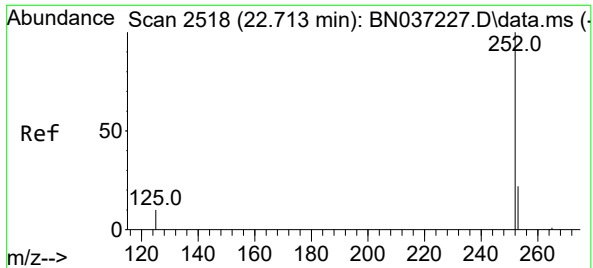
Ion Ratio Lower Upper

276 100

138 19.6 16.8 25.2

277 24.8 19.5 29.3





#37

Benzo(b)fluoranthene

Concen: 0.425 ng

RT: 22.702 min Scan# 2514

Delta R.T. -0.012 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Instrument :

BNA\_N

ClientSampleId :

PB168476BSD

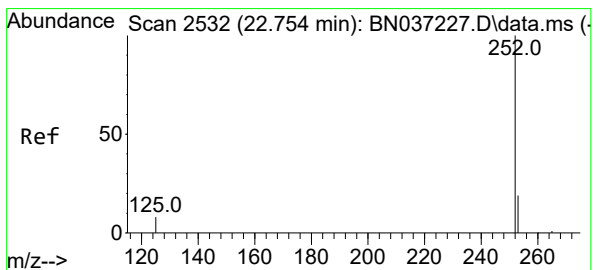
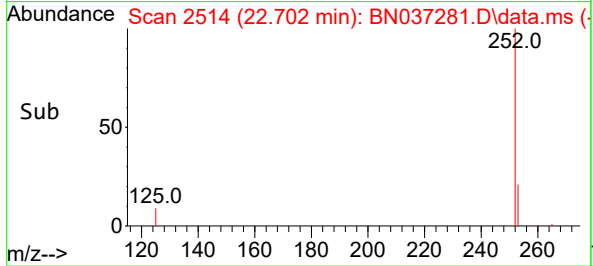
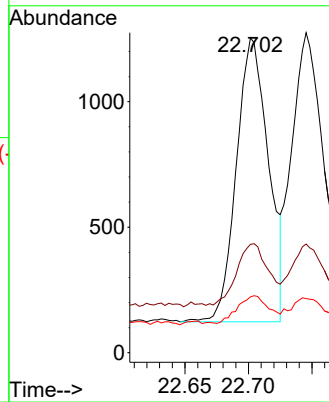
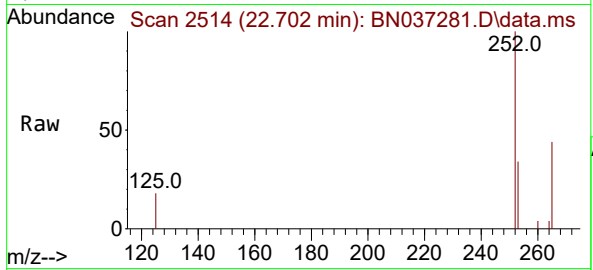
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 1980  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 34.4  | 24.9  | 37.3  |
| 125      | 17.8  | 12.9  | 19.3  |

Manual Integrations

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Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



#38

Benzo(k)fluoranthene

Concen: 0.402 ng

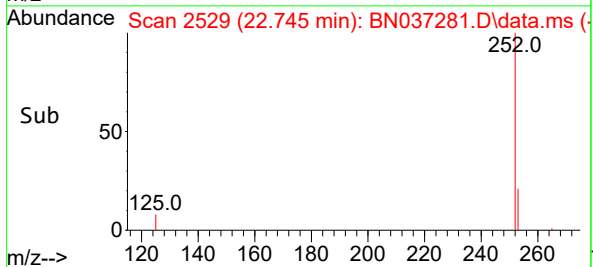
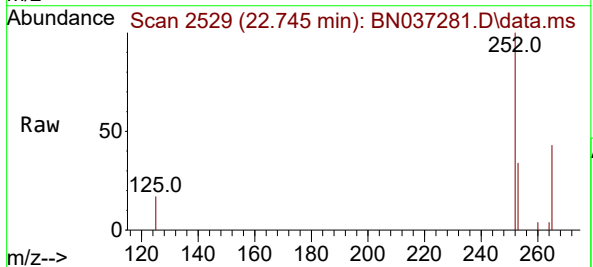
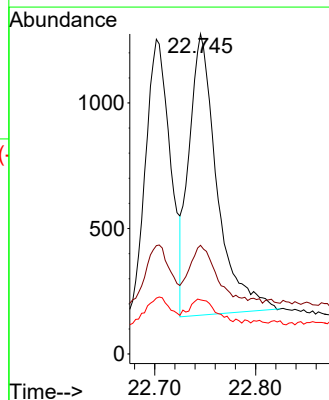
RT: 22.745 min Scan# 2529

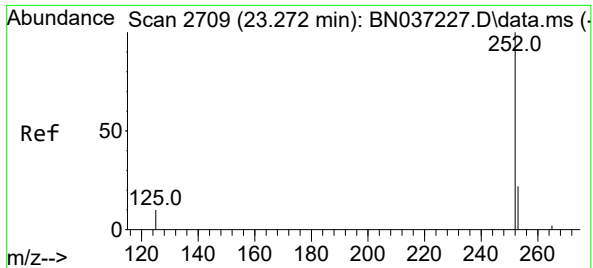
Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 2165  |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 34.0  | 24.6  | 37.0  |
| 125      | 16.9  | 13.4  | 20.2  |





#39

Benzo(a)pyrene

Concen: 0.420 ng

RT: 23.260 min Scan# 21

Delta R.T. -0.012 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Instrument :

BNA\_N

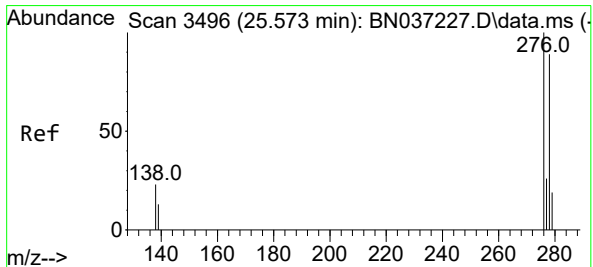
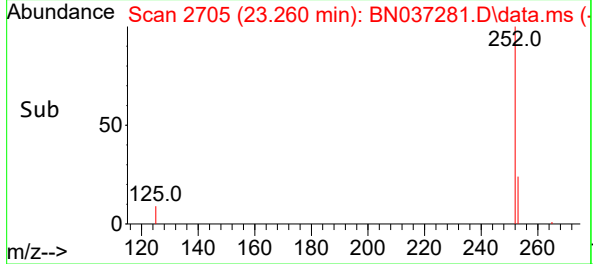
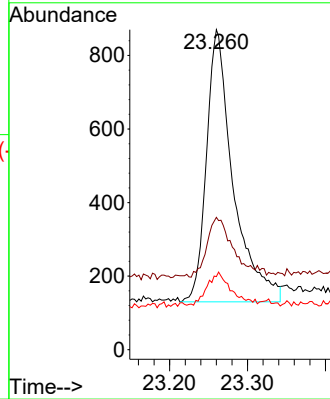
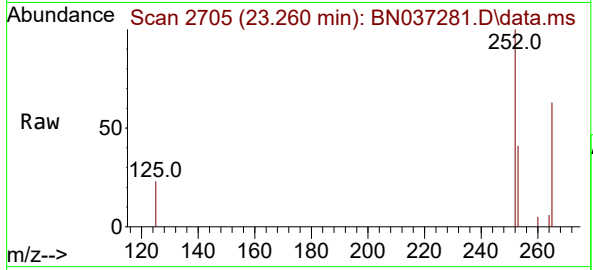
ClientSampleId :

PB168476BSD

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 252   | Resp: | 176  |
| Ion Ratio | Lower | Upper |      |
| 252       | 100   |       |      |
| 253       | 41.4  | 29.4  | 44.2 |
| 125       | 22.9  | 16.2  | 24.2 |

Manual Integrations  
APPROVED

Reviewed By :Anahy Claudio 06/16/2025  
Supervised By :Jagrut Upadhyay 06/16/2025



#40

Dibenzo(a,h)anthracene

Concen: 0.446 ng

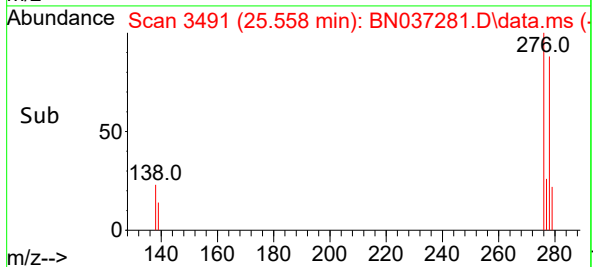
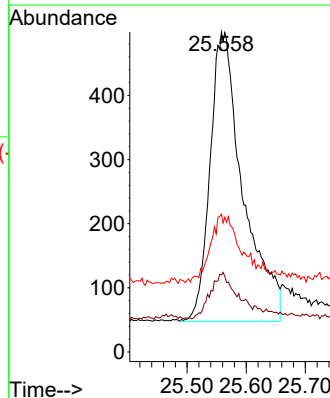
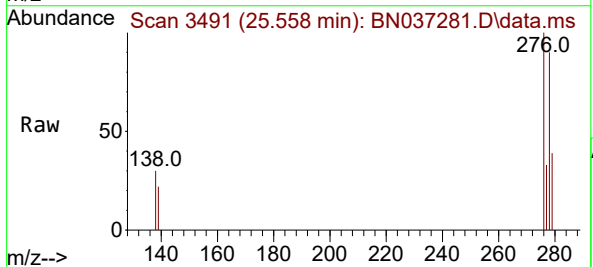
RT: 25.558 min Scan# 3491

Delta R.T. -0.015 min

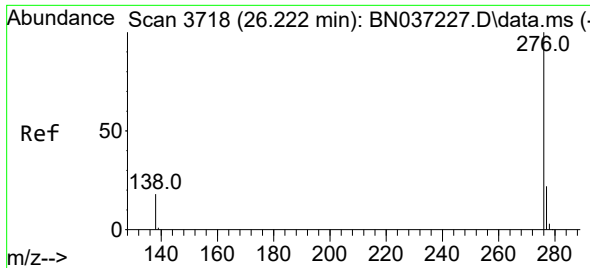
Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 278   | Resp: | 1744 |
| Ion Ratio | Lower | Upper |      |
| 278       | 100   |       |      |
| 139       | 24.0  | 17.8  | 26.6 |
| 279       | 43.1  | 31.3  | 46.9 |







#41

Benzo(g,h,i)perylene

Concen: 0.422 ng

RT: 26.210 min Scan# 31

Delta R.T. -0.012 min

Lab File: BN037281.D

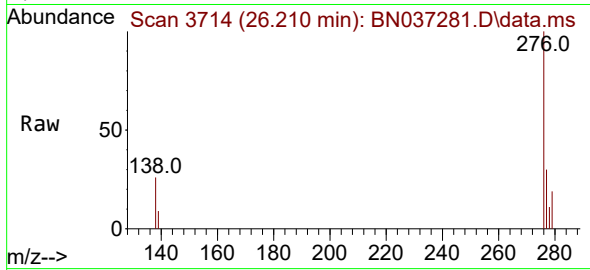
Acq: 15 Jun 2025 03:18

Instrument :

BNA\_N

ClientSampleId :

PB168476BSD



Tgt Ion: 276 Resp: 2014

Ion Ratio Lower Upper

276 100

277 30.2 22.0 33.0

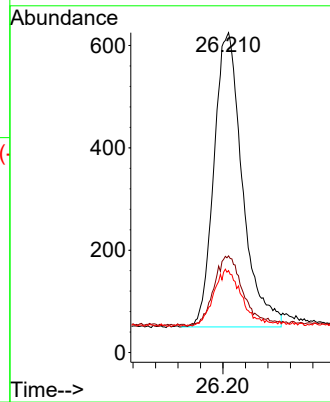
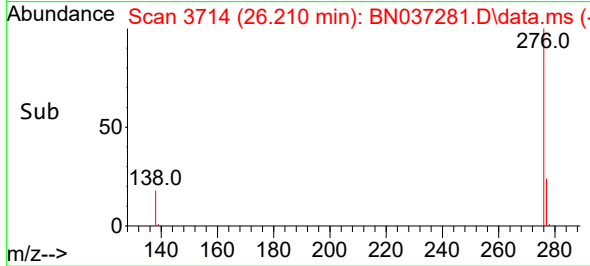
138 25.6 18.4 27.6

Manual Integrations

APPROVED

Reviewed By :Anahy Claudio 06/16/2025

Supervised By :Jagrut Upadhyay 06/16/2025



## Manual Integration Report

|           |          |            |       |
|-----------|----------|------------|-------|
| Sequence: | BN061325 | Instrument | BNA_n |
|-----------|----------|------------|-------|

| Sample ID   | File ID    | Parameter                   | Review By | Review On                | Supervised By | Supervised On            | Reason                      |
|-------------|------------|-----------------------------|-----------|--------------------------|---------------|--------------------------|-----------------------------|
| SSTDICC0.1  | BN037225.D | Benzo(k)fluoranthene        | anahy     | 6/16/2025<br>10:00:46 AM | Jagrut        | 6/16/2025<br>10:17:11 AM | Peak Integrated by Software |
| SSTDICC0.1  | BN037225.D | Dibenzo(a,h)anthracene      | anahy     | 6/16/2025<br>10:00:46 AM | Jagrut        | 6/16/2025<br>10:17:11 AM | Peak Integrated by Software |
| PB168476BS  | BN037280.D | 2-Methylnaphthalene-d1<br>0 | anahy     | 6/16/2025<br>10:04:48 AM | Jagrut        | 6/16/2025<br>10:17:04 AM | Peak Integrated by Software |
| PB168476BSD | BN037281.D | 2-Methylnaphthalene-d1<br>0 | anahy     | 6/16/2025<br>10:05:29 AM | Jagrut        | 6/16/2025<br>10:17:06 AM | Peak Integrated by Software |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN061325**

|                          |                                                  |                   |                                               |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Review By                | anahy                                            | Review On         | 6/16/2025 10:18:23 AM                         |
| Supervise By             | Jagrut                                           | Supervise On      | 6/16/2025 10:18:34 AM                         |
| SubDirectory             | BN061325                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn061325 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                               |
| Tune/Reschk              | SP6757                                           |                   |                                               |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |                   |                                               |
| CCC                      | SP6779                                           |                   |                                               |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6768                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

| Sr# | SampleId    | Data File Name | Date-Time         | Operator | Status |
|-----|-------------|----------------|-------------------|----------|--------|
| 1   | DFTPP       | BN037223.D     | 13 Jun 2025 11:34 | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | BN037224.D     | 13 Jun 2025 12:50 | RC/JU    | Not Ok |
| 3   | SSTDICC0.1  | BN037225.D     | 13 Jun 2025 13:33 | RC/JU    | Ok,M   |
| 4   | SSTDICC0.2  | BN037226.D     | 13 Jun 2025 14:10 | RC/JU    | Ok     |
| 5   | SSTDICCC0.4 | BN037227.D     | 13 Jun 2025 14:46 | RC/JU    | Ok     |
| 6   | SSTDICC0.8  | BN037228.D     | 13 Jun 2025 15:22 | RC/JU    | Ok     |
| 7   | SSTDICC1.6  | BN037229.D     | 13 Jun 2025 15:59 | RC/JU    | Ok     |
| 8   | SSTDICC3.2  | BN037230.D     | 13 Jun 2025 16:35 | RC/JU    | Ok     |
| 9   | SSTDICC5.0  | BN037231.D     | 13 Jun 2025 17:11 | RC/JU    | Ok     |
| 10  | SSTDICV0.4  | BN037232.D     | 13 Jun 2025 17:47 | RC/JU    | Ok     |
| 11  | PB168391BL  | BN037233.D     | 13 Jun 2025 19:00 | RC/JU    | Ok     |
| 12  | Q2275-01    | BN037234.D     | 13 Jun 2025 19:36 | RC/JU    | Ok     |
| 13  | Q2275-03    | BN037235.D     | 13 Jun 2025 20:12 | RC/JU    | Ok     |
| 14  | PB168391BS  | BN037236.D     | 13 Jun 2025 20:49 | RC/JU    | Ok,M   |
| 15  | PB168391BSD | BN037237.D     | 13 Jun 2025 21:25 | RC/JU    | Ok,M   |
| 16  | SSTDCCC0.4  | BN037238.D     | 13 Jun 2025 22:01 | RC/JU    | Ok     |
| 17  | DFTPP       | BN037239.D     | 13 Jun 2025 23:16 | RC/JU    | Ok     |
| 18  | SSTDCCC0.4  | BN037240.D     | 13 Jun 2025 23:55 | RC/JU    | Ok     |
| 19  | PB168458BL  | BN037241.D     | 14 Jun 2025 00:31 | RC/JU    | Ok     |
| 20  | Q2263-01    | BN037242.D     | 14 Jun 2025 01:08 | RC/JU    | Ok     |
| 21  | Q2263-02    | BN037243.D     | 14 Jun 2025 01:44 | RC/JU    | Ok     |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN061325**

| Review By                | anahy                                            | Review On         | 6/16/2025 10:18:23 AM                         |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | Jagrut                                           | Supervise On      | 6/16/2025 10:18:34 AM                         |
| SubDirectory             | BN061325                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn061325 |
| STD. NAME                | STD REF.#                                        |                   |                                               |
| Tune/Reschk              | SP6757                                           |                   |                                               |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |                   |                                               |
| CCC                      | SP6779                                           |                   |                                               |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6768                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

|    |             |            |                   |       |          |
|----|-------------|------------|-------------------|-------|----------|
| 22 | Q2299-01    | BN037244.D | 14 Jun 2025 02:20 | RC/JU | Ok       |
| 23 | Q2299-02    | BN037245.D | 14 Jun 2025 02:56 | RC/JU | Ok       |
| 24 | Q2299-03MS  | BN037246.D | 14 Jun 2025 03:32 | RC/JU | Ok,M     |
| 25 | Q2299-04MSD | BN037247.D | 14 Jun 2025 04:08 | RC/JU | Ok,M     |
| 26 | Q2299-05    | BN037248.D | 14 Jun 2025 04:45 | RC/JU | Ok       |
| 27 | Q2299-06    | BN037249.D | 14 Jun 2025 05:21 | RC/JU | Ok       |
| 28 | Q2299-07    | BN037250.D | 14 Jun 2025 05:57 | RC/JU | Ok       |
| 29 | Q2299-08    | BN037251.D | 14 Jun 2025 06:33 | RC/JU | Ok       |
| 30 | Q2299-09    | BN037252.D | 14 Jun 2025 07:09 | RC/JU | Ok       |
| 31 | Q2299-10    | BN037253.D | 14 Jun 2025 07:46 | RC/JU | Ok       |
| 32 | Q2299-11    | BN037254.D | 14 Jun 2025 08:22 | RC/JU | Ok       |
| 33 | Q2299-12    | BN037255.D | 14 Jun 2025 08:58 | RC/JU | Ok       |
| 34 | Q2299-13    | BN037256.D | 14 Jun 2025 09:34 | RC/JU | Dilution |
| 35 | SSTDCCC0.4  | BN037257.D | 14 Jun 2025 10:10 | RC/JU | Ok       |
| 36 | DFTPP       | BN037258.D | 14 Jun 2025 12:44 | RC/JU | Ok       |
| 37 | SSTDCCC0.4  | BN037259.D | 14 Jun 2025 13:23 | RC/JU | Ok       |
| 38 | PB168336BL  | BN037260.D | 14 Jun 2025 13:59 | RC/JU | Ok       |
| 39 | Q2299-14    | BN037261.D | 14 Jun 2025 14:35 | RC/JU | Dilution |
| 40 | Q2299-15    | BN037262.D | 14 Jun 2025 15:11 | RC/JU | Ok       |
| 41 | Q2299-16    | BN037263.D | 14 Jun 2025 15:47 | RC/JU | Ok       |
| 42 | Q2299-17    | BN037264.D | 14 Jun 2025 16:23 | RC/JU | Dilution |
| 43 | Q2299-18    | BN037265.D | 14 Jun 2025 17:00 | RC/JU | Ok       |
| 44 | Q2299-19    | BN037266.D | 14 Jun 2025 17:36 | RC/JU | Ok       |

Instrument ID: **BNA\_N**

**Daily Analysis Runlog For Sequence/QC Batch ID # BN061325**

| Review By                | anahy                                            | Review On         | 6/16/2025 10:18:23 AM                         |
|--------------------------|--------------------------------------------------|-------------------|-----------------------------------------------|
| Supervise By             | Jagrut                                           | Supervise On      | 6/16/2025 10:18:34 AM                         |
| SubDirectory             | BN061325                                         | HP Acquire Method | BNA_N, 8270_SiM HP Processing Method bn061325 |
| STD. NAME                | STD REF.#                                        |                   |                                               |
| Tune/Reschk              | SP6757                                           |                   |                                               |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |                   |                                               |
| CCC                      | SP6779                                           |                   |                                               |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |                   |                                               |
| ICV/I.BLK                | SP6768                                           |                   |                                               |
| Surrogate Standard       |                                                  |                   |                                               |
| MS/MSD Standard          |                                                  |                   |                                               |
| LCS Standard             |                                                  |                   |                                               |

|    |             |            |                   |       |      |
|----|-------------|------------|-------------------|-------|------|
| 45 | Q2299-20    | BN037267.D | 14 Jun 2025 18:12 | RC/JU | Ok   |
| 46 | Q2299-21    | BN037268.D | 14 Jun 2025 18:48 | RC/JU | Ok   |
| 47 | Q2299-22    | BN037269.D | 14 Jun 2025 19:24 | RC/JU | Ok   |
| 48 | PB168458BS  | BN037270.D | 14 Jun 2025 20:00 | RC/JU | Ok,M |
| 49 | SSTDCCC0.4  | BN037271.D | 14 Jun 2025 20:36 | RC/JU | Ok   |
| 50 | DFTPP       | BN037272.D | 14 Jun 2025 21:51 | RC/JU | Ok   |
| 51 | SSTDCCC0.4  | BN037273.D | 14 Jun 2025 22:31 | RC/JU | Ok   |
| 52 | PB168476BL  | BN037274.D | 14 Jun 2025 23:07 | RC/JU | Ok   |
| 53 | Q2314-04    | BN037275.D | 14 Jun 2025 23:43 | RC/JU | Ok   |
| 54 | Q2314-05    | BN037276.D | 15 Jun 2025 00:18 | RC/JU | Ok   |
| 55 | Q2314-06    | BN037277.D | 15 Jun 2025 00:54 | RC/JU | Ok   |
| 56 | Q2316-01    | BN037278.D | 15 Jun 2025 01:30 | RC/JU | Ok   |
| 57 | Q2316-02    | BN037279.D | 15 Jun 2025 02:06 | RC/JU | Ok   |
| 58 | PB168476BS  | BN037280.D | 15 Jun 2025 02:42 | RC/JU | Ok,M |
| 59 | PB168476BSD | BN037281.D | 15 Jun 2025 03:18 | RC/JU | Ok,M |
| 60 | SSTDCCC0.4  | BN037282.D | 15 Jun 2025 03:54 | RC/JU | Ok   |

M : Manual Integration

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN061325**

|              |          |                   |                                           |
|--------------|----------|-------------------|-------------------------------------------|
| Review By    | anahy    | Review On         | 6/16/2025 10:18:23 AM                     |
| Supervise By | Jagrut   | Supervise On      | 6/16/2025 10:18:34 AM                     |
| SubDirectory | BN061325 | HP Acquire Method | BNA_N, 8270_HP Processing Method bn061325 |

| STD. NAME                | STD REF.#                                        |
|--------------------------|--------------------------------------------------|
| Tune/Reschk              | SP6757                                           |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |
| CCC                      | SP6779                                           |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |
| ICV/I.BLK                | SP6768                                           |
| Surrogate Standard       |                                                  |
| MS/MSD Standard          |                                                  |
| LCS Standard             |                                                  |

| Sr# | SampleId    | ClientID           | Data File Name | Date-Time         | Comment                                       | Operator | Status |
|-----|-------------|--------------------|----------------|-------------------|-----------------------------------------------|----------|--------|
| 1   | DFTPP       | DFTPP              | BN037223.D     | 13 Jun 2025 11:34 |                                               | RC/JU    | Ok     |
| 2   | SSTDCCC0.4  | SSTDCCC0.4         | BN037224.D     | 13 Jun 2025 12:50 | A Fresh Calibration is required.              | RC/JU    | Not Ok |
| 3   | SSTDICC0.1  | SSTDICC0.1         | BN037225.D     | 13 Jun 2025 13:33 | Compound #02,03,20,24,34 removed from 0.1 PPM | RC/JU    | Ok,M   |
| 4   | SSTDICC0.2  | SSTDICC0.2         | BN037226.D     | 13 Jun 2025 14:10 |                                               | RC/JU    | Ok     |
| 5   | SSTDICCC0.4 | SSTDICCC0.4        | BN037227.D     | 13 Jun 2025 14:46 | Compound#20 Kept on QR                        | RC/JU    | Ok     |
| 6   | SSTDICC0.8  | SSTDICC0.8         | BN037228.D     | 13 Jun 2025 15:22 |                                               | RC/JU    | Ok     |
| 7   | SSTDICC1.6  | SSTDICC1.6         | BN037229.D     | 13 Jun 2025 15:59 |                                               | RC/JU    | Ok     |
| 8   | SSTDICC3.2  | SSTDICC3.2         | BN037230.D     | 13 Jun 2025 16:35 |                                               | RC/JU    | Ok     |
| 9   | SSTDICC5.0  | SSTDICC5.0         | BN037231.D     | 13 Jun 2025 17:11 |                                               | RC/JU    | Ok     |
| 10  | SSTDICV0.4  | ICVBN061325        | BN037232.D     | 13 Jun 2025 17:47 |                                               | RC/JU    | Ok     |
| 11  | PB168391BL  | PB168391BL         | BN037233.D     | 13 Jun 2025 19:00 |                                               | RC/JU    | Ok     |
| 12  | Q2275-01    | OW-08B-72.5-060925 | BN037234.D     | 13 Jun 2025 19:36 |                                               | RC/JU    | Ok     |
| 13  | Q2275-03    | EB01-060925        | BN037235.D     | 13 Jun 2025 20:12 |                                               | RC/JU    | Ok     |
| 14  | PB168391BS  | PB168391BS         | BN037236.D     | 13 Jun 2025 20:49 |                                               | RC/JU    | Ok,M   |
| 15  | PB168391BSD | PB168391BSD        | BN037237.D     | 13 Jun 2025 21:25 |                                               | RC/JU    | Ok,M   |
| 16  | SSTDCCC0.4  | SSTDCCC0.4EC       | BN037238.D     | 13 Jun 2025 22:01 |                                               | RC/JU    | Ok     |
| 17  | DFTPP       | DFTPP              | BN037239.D     | 13 Jun 2025 23:16 |                                               | RC/JU    | Ok     |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN061325**

| Review By                | anahy                                            | Review On         | 6/16/2025 10:18:23 AM                     |
|--------------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Supervise By             | Jagrut                                           | Supervise On      | 6/16/2025 10:18:34 AM                     |
| SubDirectory             | BN061325                                         | HP Acquire Method | BNA_N, 8270_HP Processing Method bn061325 |
| STD. NAME                | STD REF.#                                        |                   |                                           |
| Tune/Reschk              | SP6757                                           |                   |                                           |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |                   |                                           |
| CCC                      | SP6779                                           |                   |                                           |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |                   |                                           |
| ICV/I.BLK                | SP6768                                           |                   |                                           |
| Surrogate Standard       |                                                  |                   |                                           |
| MS/MSD Standard          |                                                  |                   |                                           |
| LCS Standard             |                                                  |                   |                                           |

|    |             |                    |            |                   |                  |       |          |
|----|-------------|--------------------|------------|-------------------|------------------|-------|----------|
| 18 | SSTDCCC0.4  | SSTDCCC0.4         | BN037240.D | 13 Jun 2025 23:55 |                  | RC/JU | Ok       |
| 19 | PB168458BL  | PB168458BL         | BN037241.D | 14 Jun 2025 00:31 |                  | RC/JU | Ok       |
| 20 | Q2263-01    | RW9-MW01D3-202506  | BN037242.D | 14 Jun 2025 01:08 |                  | RC/JU | Ok       |
| 21 | Q2263-02    | RW9-MW01S-2025060  | BN037243.D | 14 Jun 2025 01:44 |                  | RC/JU | Ok       |
| 22 | Q2299-01    | RE117D1-20250609   | BN037244.D | 14 Jun 2025 02:20 |                  | RC/JU | Ok       |
| 23 | Q2299-02    | RE117D2-20250609   | BN037245.D | 14 Jun 2025 02:56 |                  | RC/JU | Ok       |
| 24 | Q2299-03MS  | TT191D1-20250609MS | BN037246.D | 14 Jun 2025 03:32 |                  | RC/JU | Ok,M     |
| 25 | Q2299-04MSD | TT191D1-20250609MS | BN037247.D | 14 Jun 2025 04:08 |                  | RC/JU | Ok,M     |
| 26 | Q2299-05    | TT191D1-20250609   | BN037248.D | 14 Jun 2025 04:45 |                  | RC/JU | Ok       |
| 27 | Q2299-06    | TT191D2-20250609   | BN037249.D | 14 Jun 2025 05:21 |                  | RC/JU | Ok       |
| 28 | Q2299-07    | RW10-MW01S-202506  | BN037250.D | 14 Jun 2025 05:57 |                  | RC/JU | Ok       |
| 29 | Q2299-08    | RW10-MW01D-202506  | BN037251.D | 14 Jun 2025 06:33 |                  | RC/JU | Ok       |
| 30 | Q2299-09    | RW10A-MW01S-20250  | BN037252.D | 14 Jun 2025 07:09 |                  | RC/JU | Ok       |
| 31 | Q2299-10    | RW10A-MW01I-202506 | BN037253.D | 14 Jun 2025 07:46 |                  | RC/JU | Ok       |
| 32 | Q2299-11    | TT158I1-20250610   | BN037254.D | 14 Jun 2025 08:22 |                  | RC/JU | Ok       |
| 33 | Q2299-12    | DUP01-20250610     | BN037255.D | 14 Jun 2025 08:58 |                  | RC/JU | Ok       |
| 34 | Q2299-13    | RE131D2-20250610   | BN037256.D | 14 Jun 2025 09:34 | Need 5X Dilution | RC/JU | Dilution |
| 35 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN037257.D | 14 Jun 2025 10:10 |                  | RC/JU | Ok       |
| 36 | DFTPP       | DFTPP              | BN037258.D | 14 Jun 2025 12:44 |                  | RC/JU | Ok       |

Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN061325**

| Review By                | anahy                                            | Review On         | 6/16/2025 10:18:23 AM                     |
|--------------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Supervise By             | Jagrut                                           | Supervise On      | 6/16/2025 10:18:34 AM                     |
| SubDirectory             | BN061325                                         | HP Acquire Method | BNA_N, 8270_HP Processing Method bn061325 |
| STD. NAME                | STD REF.#                                        |                   |                                           |
| Tune/Reschk              | SP6757                                           |                   |                                           |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |                   |                                           |
| CCC                      | SP6779                                           |                   |                                           |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |                   |                                           |
| ICV/I.BLK                | SP6768                                           |                   |                                           |
| Surrogate Standard       |                                                  |                   |                                           |
| MS/MSD Standard          |                                                  |                   |                                           |
| LCS Standard             |                                                  |                   |                                           |

|    |            |                        |            |                   |                  |       |          |
|----|------------|------------------------|------------|-------------------|------------------|-------|----------|
| 37 | SSTDCCC0.4 | SSTDCCC0.4             | BN037259.D | 14 Jun 2025 13:23 |                  | RC/JU | Ok       |
| 38 | PB168336BL | PB168336BL             | BN037260.D | 14 Jun 2025 13:59 |                  | RC/JU | Ok       |
| 39 | Q2299-14   | DUP02-20250610         | BN037261.D | 14 Jun 2025 14:35 | Need 5X Dilution | RC/JU | Dilution |
| 40 | Q2299-15   | TT174I1-20250610       | BN037262.D | 14 Jun 2025 15:11 |                  | RC/JU | Ok       |
| 41 | Q2299-16   | RE134D4-20250610       | BN037263.D | 14 Jun 2025 15:47 |                  | RC/JU | Ok       |
| 42 | Q2299-17   | RE134D3-20250610       | BN037264.D | 14 Jun 2025 16:23 | Need 2X Dilution | RC/JU | Dilution |
| 43 | Q2299-18   | TT190D1-20250611       | BN037265.D | 14 Jun 2025 17:00 |                  | RC/JU | Ok       |
| 44 | Q2299-19   | RW11-MW01I-20250611    | BN037266.D | 14 Jun 2025 17:36 |                  | RC/JU | Ok       |
| 45 | Q2299-20   | RW11-MW01S-20250611    | BN037267.D | 14 Jun 2025 18:12 |                  | RC/JU | Ok       |
| 46 | Q2299-21   | RE134D1-20250611       | BN037268.D | 14 Jun 2025 18:48 |                  | RC/JU | Ok       |
| 47 | Q2299-22   | TT190D2-20250611       | BN037269.D | 14 Jun 2025 19:24 |                  | RC/JU | Ok       |
| 48 | PB168458BS | PB168458BS             | BN037270.D | 14 Jun 2025 20:00 |                  | RC/JU | Ok,M     |
| 49 | SSTDCCC0.4 | SSTDCCC0.4EC           | BN037271.D | 14 Jun 2025 20:36 |                  | RC/JU | Ok       |
| 50 | DFTPP      | DFTPP                  | BN037272.D | 14 Jun 2025 21:51 |                  | RC/JU | Ok       |
| 51 | SSTDCCC0.4 | SSTDCCC0.4             | BN037273.D | 14 Jun 2025 22:31 |                  | RC/JU | Ok       |
| 52 | PB168476BL | PB168476BL             | BN037274.D | 14 Jun 2025 23:07 |                  | RC/JU | Ok       |
| 53 | Q2314-04   | BP-VPB-182-GW-880-8    | BN037275.D | 14 Jun 2025 23:43 |                  | RC/JU | Ok       |
| 54 | Q2314-05   | BP-VPB-182-EB-20250611 | BN037276.D | 15 Jun 2025 00:18 |                  | RC/JU | Ok       |
| 55 | Q2314-06   | VPB182-HYD-20250611    | BN037277.D | 15 Jun 2025 00:54 | Surrogate fail   | RC/JU | Ok       |



Instrument ID: BNA\_N

**Daily Analysis Runlog For Sequence/QC Batch ID # BN061325**

|                          |                                                  |                   |                                           |
|--------------------------|--------------------------------------------------|-------------------|-------------------------------------------|
| Review By                | anahy                                            | Review On         | 6/16/2025 10:18:23 AM                     |
| Supervise By             | Jagrut                                           | Supervise On      | 6/16/2025 10:18:34 AM                     |
| SubDirectory             | BN061325                                         | HP Acquire Method | BNA_N, 8270_HP Processing Method bn061325 |
| <b>STD. NAME</b>         | <b>STD REF.#</b>                                 |                   |                                           |
| Tune/Reschk              | SP6757                                           |                   |                                           |
| Initial Calibration Stds | SP6781,SP6780,SP6779,SP6778,SP6777,SP6776,SP6775 |                   |                                           |
| CCC                      | SP6779                                           |                   |                                           |
| Internal Standard/PEM    | SP6740,1ul/100ul sample                          |                   |                                           |
| ICV/I.BLK                | SP6768                                           |                   |                                           |
| Surrogate Standard       |                                                  |                   |                                           |
| MS/MSD Standard          |                                                  |                   |                                           |
| LCS Standard             |                                                  |                   |                                           |

|    |             |                    |            |                   |  |       |      |
|----|-------------|--------------------|------------|-------------------|--|-------|------|
| 56 | Q2316-01    | RW8-SP100-20250612 | BN037278.D | 15 Jun 2025 01:30 |  | RC/JU | Ok   |
| 57 | Q2316-02    | RW8-SP303-20250612 | BN037279.D | 15 Jun 2025 02:06 |  | RC/JU | Ok   |
| 58 | PB168476BS  | PB168476BS         | BN037280.D | 15 Jun 2025 02:42 |  | RC/JU | Ok,M |
| 59 | PB168476BSD | PB168476BSD        | BN037281.D | 15 Jun 2025 03:18 |  | RC/JU | Ok,M |
| 60 | SSTDCCC0.4  | SSTDCCC0.4EC       | BN037282.D | 15 Jun 2025 03:54 |  | RC/JU | Ok   |

M : Manual Integration

SOP ID: M3510C,3580A-Extraction SVOC-20

Clean Up SOP #: N/A

Matrix : Water

Weigh By: N/A

Balance check: N/A

Balance ID: N/A

pH Strip Lot#: E3880

Extraction By: RS

Filter By: RJ

pH Meter ID: N/A

Hood ID: 4,5,6,7

Extraction Start Date : 06/13/2025

Extraction Start Time : 11:00

Extraction End Date : 06/13/2025

Extraction End Time : 15:55

Concentration By: EH

Supervisor By : RUPESH

Extraction Method: ☒ Separatory Funnel ☐ Continuous 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             | SP6756              |
| Surrogate     | 1.0ML    | 0.4 PPM             | SP6758              |
| 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            | E3939      |
| Baked Na2SO4       | N/A            | EP2620     |
| 10N NaOH           | N/A            | EP2609     |
| H2SO4 1:1          | N/A            | EP2610     |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |
| N/A                | N/A            | N/A        |

## Extraction Conformance/Non-Conformance Comments:

1.5 ML Vial lot# 2210443. pH Adjusted&lt;2 with 1:1 H2SO4 &amp;&gt;11 with 10 N NaOH.

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 |
|-------------------|-----------------------------------------|----------------------|
| 06/13/25<br>16:00 | RP (Ext. 205)                           | Rdsvoc               |
|                   | Preparation Group                       | Analysis Group       |

Analytical Method: M3510C,3580A-Extraction SVOC-20

Concentration Date: 06/13/2025

| Sample ID       | Client Sample ID           | Test               | g / mL | PH | Surr/Spike By: |            | Final Vol.<br>(mL) | JarID | Comments | Prep<br>Pos |
|-----------------|----------------------------|--------------------|--------|----|----------------|------------|--------------------|-------|----------|-------------|
|                 |                            |                    |        |    | AddedBy        | VerifiedBy |                    |       |          |             |
| PB168476BL      | SBLK476                    | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | Niha       | 1                  |       |          | SEP-1       |
| PB168476BS      | SLCS476                    | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | Niha       | 1                  |       |          | 2           |
| PB168476BS<br>D | SLCSD476                   | SVOC-SIMGrou<br>p1 | 1000   | 6  | RUPESH         | Niha       | 1                  |       |          | 3           |
| Q2314-04        | BP-VPB-182-GW-880-882      | SVOC-SIMGrou<br>p1 | 960    | 6  | RUPESH         | Niha       | 1                  | C     |          | 4           |
| Q2314-05        | BP-VPB-182-EB-2025061<br>2 | SVOC-SIMGrou<br>p1 | 970    | 6  | RUPESH         | Niha       | 1                  | C     |          | 5           |
| Q2314-06        | VPB182-HYD-20250605        | SVOC-SIMGrou<br>p1 | 980    | 6  | RUPESH         | Niha       | 1                  | C     |          | 6           |
| Q2316-01        | RW8-SP100-20250612         | SVOC-SIMGrou<br>p1 | 990    | 6  | RUPESH         | Niha       | 1                  | B     |          | 7           |
| Q2316-02        | RW8-SP303-20250612         | SVOC-SIMGrou<br>p1 | 980    | 6  | RUPESH         | Niha       | 1                  | D     |          | 8           |

\* Extracts relinquished on the same date as received.

8/13/25

# WORKLIST(Hardcopy Internal Chain)

WorkList Name : Q2314      WorkList ID : 190190      Department : Extraction      Date : 06-13-2025 10:59:43

| Sample   | Customer Sample        | Matrix | Test           | Preservative | Customer | Raw Sample Storage Location | Collect Date | Method        |
|----------|------------------------|--------|----------------|--------------|----------|-----------------------------|--------------|---------------|
| Q2314-04 | BP-VPB-182-GW-880-882  | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | D41                         | 06/12/2025   | 8270-Modified |
| Q2314-05 | BP-VPB-182-EB-20250612 | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | D41                         | 06/12/2025   | 8270-Modified |
| Q2314-06 | VPB182-HYD-20250605    | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | D41                         | 06/12/2025   | 8270-Modified |
| Q2316-01 | RW8-SP100-20250612     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | D41                         | 06/12/2025   | 8270-Modified |
| Q2316-02 | RW8-SP303-20250612     | Water  | SVOC-SIMGroup1 | Cool 4 deg C | TETR06   | D41                         | 06/12/2025   | 8270-Modified |

Date/Time 06/13/25 10:59  
 Raw Sample Received by: As (Set 2025)  
 Raw Sample Relinquished by: As (Set 2025)

Date/Time 06/13/25 10:20  
 Raw Sample Received by: As (Set 2025)  
 Raw Sample Relinquished by: As (Set 2025)

## Prep Standard - Chemical Standard Summary

**Order ID :** Q2316  
**Test :** SVOC-SIMGroup1  
**Prepbatch ID :** PB168476,  
**Sequence ID/Qc Batch ID:** BN061325,

**Standard ID :**  
EP2609,EP2610,EP2620,SP6740,SP6756,SP6757,SP6758,SP6767,SP6768,SP6774,SP6775,SP6776,SP6777,SP6778,SP6779,SP6780,SP6781,

**Chemical ID :**  
1ul/100ul  
sample,E3551,E3657,E3874,E3902,E3904,E3915,E3926,E3939,M6157,S10104,S 11496,S11650,S11788,S11832,S12115,S12195,S12216,S12271,S12486,S12533,S12577,S12651,S12792,S12974,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    |

**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    |

**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="#">EP2620</a> | 05/30/2025       | 07/01/2025             | RUPESHKUMAR SHAH   | Extraction_SCALE_2<br>(EX-SC-2) | None             | Riteshkumar Patel<br>05/30/2025 |

**FROM** 4000.00000gram of E3551 = 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="#">SP6740</a> | 02/13/2025       | 07/30/2025             | Rahul Chavli       | None           | None             | Yogesh Patel<br>02/28/2025 |

**FROM** 0.10000ml of S12651 + 4.90000ml of E3874 = 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> |
|------------------|------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3492             | 8270-SIM-Spike 0.4 PPM | <a href="#">SP6756</a> | 03/24/2025       | 07/29/2025             | Rahul Chavli       | None           | None             | mohammad ahmed       |
| 04/07/2025       |                        |                        |                  |                        |                    |                |                  |                      |

**FROM** 0.00160ml of S11650 + 0.02000ml of S11788 + 0.04000ml of S12486 + 0.04000ml of S12533 + 0.04000ml of S12974 + 99.85840ml of E3902 = Final Quantity: 100.000 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> |
|------------------|----------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3895             | 50 ug/ml DFTPP 8270E | <a href="#">SP6757</a> | 03/31/2025       | 09/30/2025             | Rahul Chavli       | None           | None             | Jagrut Upadhyay      |
| 04/01/2025       |                      |                        |                  |                        |                    |                |                  |                      |

**FROM** 1.00000ml of S12577 + 19.00000ml of E3904 = Final Quantity: 20.000 ml



## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u> | <u>NAME</u>                | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|----------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3491             | 8270-SIM-Surrogate 0.4 PPM | <a href="#">SP6758</a> | 04/03/2025       | 07/24/2025             | Rahul Chavli       | None           | None             | mohammad ahmed       |
|                  |                            |                        |                  |                        |                    |                |                  | 04/07/2025           |

**FROM** 0.00800ml of S12195 + 0.01600ml of S12216 + 0.04000ml of S11832 + 199.93600ml of E3915 = Final Quantity: 200.000 ml

| <u>Recipe ID</u> | <u>NAME</u>                                       | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------|---------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3355             | 8270-SIM MDL-3.2PPM<br>CALIBRATION STOCK SOL- 2ND | <a href="#">SP6767</a> | 04/10/2025       | 07/24/2025             | Jagrut Upadhyay    | None           | None             | Sohil Jodhani        |
|                  |                                                   |                        |                  |                        |                    |                |                  | 04/16/2025           |

**FROM** 0.00630ml of S12195 + 0.01280ml of S12216 + 0.03200ml of S11788 + 0.03200ml of S11832 + 0.06400ml of S12486 +  
0.06400ml of S12533 + 0.06400ml of S12974 + 19.72490ml of E3926 = Final Quantity: 20.000 ml

## SVOC STANDARD PREPARATION LOG

| <u>Recipe ID</u>                                                                                                       | <u>NAME</u>                                    | <u>NO.</u>             | <u>Prep Date</u> | <u>Expiration Date</u> | <u>Prepared By</u> | <u>ScaleID</u> | <u>PipetteID</u> | <u>Supervised By</u> |
|------------------------------------------------------------------------------------------------------------------------|------------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3356                                                                                                                   | 8270-SIM MDL-0.4PPM<br>CALIBRATION SOL ICV-2ND | <a href="#">SP6768</a> | 04/10/2025       | 07/24/2025             | Jagrut Upadhyay    | None           | None             | Sohil Jodhani        |
| <b>SOURCE</b><br><b>FROM</b> 0.87500ml of E3926 + 0.01000ml of SP6740 + 0.12500ml of SP6767 = 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> |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3339                                                                                                                                                                                               | 8270 sim calibration stock 10ppm<br>(CPI) | <a href="#">SP6774</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
| <b>FROM</b> 0.03350ml of S10104 + 0.05000ml of S11496 + 0.12500ml of S11832 + 0.12500ml of S12115 + 0.25000ml of S12271 +<br>0.25000ml of S12792 + 24.16650ml of E3926 = Final Quantity: 25.000 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> |
|------------------|----------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3361             | 8270-SIM MDL-5PPM CALIBRATION SOLUTION | <a href="#">SP6775</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                        |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6774 = 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> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3341             | 8270-SIM MDL-3.2PPM CALIBRATION SOLUTION | <a href="#">SP6776</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.68000ml of E3926 + 0.01000ml of SP6740 + 0.32000ml of SP6774 = 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> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3344             | 8270-SIM MDL-1.6PPM CALIBRATION SOLUTION | <a href="#">SP6777</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.84000ml of E3926 + 0.01000ml of SP6740 + 0.16000ml of SP6774 = 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> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3342             | 8270-SIM MDL-0.8PPM CALIBRATION SOLUTION | <a href="#">SP6778</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.92000ml of E3926 + 0.01000ml of SP6740 + 0.08000ml of SP6774 = 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> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3343             | 8270-SIM MDL-0.4PPM CALIBRATION SOLUTION | <a href="#">SP6779</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.96000ml of E3926 + 0.01000ml of SP6740 + 0.04000ml of SP6774 = 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> |
|------------------|------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|----------------------|
| 3345             | 8270-SIM MDL-0.2PPM CALIBRATION SOLUTION | <a href="#">SP6780</a> | 04/28/2025       | 06/21/2025             | Jagrut Upadhyay    | None           | None             | Rahul Chavli         |
|                  |                                          |                        |                  |                        |                    |                |                  | 05/16/2025           |

**FROM** 0.50000ml of E3926 + 0.01000ml of SP6740 + 0.50000ml of SP6779 = 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>           |
|-------------------------------------------------------------------------------------------------------|---------------------------------------------|------------------------|------------------|------------------------|--------------------|----------------|------------------|--------------------------------|
| 3346                                                                                                  | 8270-SIM MDL-0.1PPM<br>CALIBRATION SOLUTION | <a href="#">SP6781</a> | 04/28/2025       | 06/21/2025             | Jagrut<br>Upadhyay | None           | None             | Rahul Chavli<br><br>05/16/2025 |
| <b>FROM</b> 0.75000ml of E3926 + 0.01000ml of SP6740 + 0.25000ml of SP6779 = Final Quantity: 1.010 ml |                                             |                        |                  |                        |                    |                |                  |                                |

## CHEMICAL RECEIPT LOG BOOK

| Supplier                    | ItemCode / ItemName                                    | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-----------------------------|--------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| PCI Scientific Supply, Inc. | PC19631-100 / SODIUM SULFATE, ANHYDROUS, PEST GRADE, 1 | 313201 | 12/04/2025      | 01/03/2024 / Rajesh     | 07/20/2023 / Rajesh         | E3551          |

| 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 # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 25A0262002 | 07/30/2025      | 01/30/2025 / Rajesh     | 01/20/2025 / Rajesh         | E3874          |

| 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) | 24H2762008 | 09/18/2025      | 03/18/2025 / RUPESH     | 02/12/2025 / RUPESH         | E3902          |

| Supplier         | ItemCode / ItemName                                         | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|-------------------------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9644-A4 / Methylene Chloride,U-Resi, Cycle-Tainer (215L) | 24K1762005 | 01/07/2026      | 03/13/2025 / RUPESH     | 12/27/2024 / RUPESH         | E3904          |

| Supplier         | ItemCode / ItemName                        | Lot #      | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|------------------|--------------------------------------------|------------|-----------------|-------------------------|-----------------------------|----------------|
| Seidler Chemical | BA-9254-03 / Acetone, Ultra Resi (cs/4x4L) | 24H2762008 | 09/26/2025      | 03/26/2025 / Rajesh     | 03/19/2025 / RUPESH         | E3915          |

## 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) | 25A0262002 | 10/08/2025      | 04/08/2025 / Rajesh     | 02/07/2025 / Rajesh         | E3926          |

| 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 | 11/22/2025      | 05/22/2025 / RUPESH     | 02/28/2025 / RUPESH         | E3939          |

| 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 | 07/30/2025      | 01/30/2025 / anahy      | 12/09/2021 / Christian      | S10104         |

| 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 | 07/29/2025      | 01/29/2025 / anahy      | 11/09/2023 / Yogesh         | S11650         |



## 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 | A0196453 | 09/10/2025      | 03/10/2025 / anahy      | 11/21/2023 / Rahul          | S11788         |

| 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 | 07/24/2025      | 01/24/2025 / anahy      | 11/21/2023 / rahul          | S11832         |

| Supplier          | ItemCode / ItemName                                | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-010223-01 / 1,4-Dioxane Solution, 2,000mg/L, 1ml | 454157 | 10/28/2025      | 04/28/2025 / Jagrut     | 03/08/2024 / Rahul          | S12115         |

| Supplier | ItemCode / ItemName                                      | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31087 / Acid Surrogate 10,000ug/ml, methanol, 5ml/ ampul | A0206206 | 09/18/2025      | 03/18/2025 / anahy      | 03/15/2024 / Rahul          | S12195         |

| Supplier | ItemCode / ItemName                                                             | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|---------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31086 / Base Neutral Surrogate 5000ug/ml, CH <sub>2</sub> Cl <sub>2</sub> , 5ml | A0206381 | 09/18/2025      | 03/18/2025 / anahy      | 03/15/2024 / Rahul          | S12216         |

| Supplier          | ItemCode / ItemName                                                  | Lot #  | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|-------------------|----------------------------------------------------------------------|--------|-----------------|-------------------------|-----------------------------|----------------|
| CPI International | z-110381-01 / 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1ml | 520963 | 10/28/2025      | 04/28/2025 / Jagrut     | 05/24/2024 / Rahul          | S12271         |

## CHEMICAL RECEIPT LOG BOOK

| Supplier | ItemCode / ItemName                                                                                   | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|-------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555223 / Custom 8270 Plus Std #1 [2nd lot at \$100 per ampul if requested - contact ARM with Request] | A0214021 | 09/10/2025      | 03/10/2025 / anahy      | 07/23/2024 / RAHUL          | S12486         |

[CS 4978-1]

| Supplier | ItemCode / ItemName                                                                                  | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 555224 / Custom 8270 Plus Std #2 [2nd lot at \$85 per ampul if requested - contact ARM with Request] | A0214017 | 09/10/2025      | 03/10/2025 / anahy      | 07/23/2024 / RAHUL          | S12533         |

[CS 4978-2]

| Supplier | ItemCode / ItemName                                                              | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31615 / SV Mixture, GC/MS Tuning Mixture, CH <sub>2</sub> Cl <sub>2</sub> , 1mL, | A0212955 | 06/30/2027      | 03/31/2025 / Rahul      | 08/01/2024 / Rahul          | S12577         |

| Supplier | ItemCode / ItemName                                                                        | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|--------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31206 / SV Mix, CLP method, Internal Std, 2000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> , 1mL | A0212266 | 08/07/2025      | 02/07/2025 / anahy      | 09/20/2024 / anahy          | S12651         |

| 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) | 414127 | 06/21/2025      | 04/28/2025 / Jagrut     | 05/24/2024 / Rahul          | S12792         |

| Supplier | ItemCode / ItemName                                                                                                                    | Lot #    | Expiration Date | Date Opened / Opened By | Received Date / Received By | Chemtech Lot # |
|----------|----------------------------------------------------------------------------------------------------------------------------------------|----------|-----------------|-------------------------|-----------------------------|----------------|
| Restek   | 31850 / 8270 SV Mix, 8270 Mega Mix 1mL, 1000ug/mL, CH <sub>2</sub> Cl <sub>2</sub> [New Solvent 100% CH <sub>2</sub> Cl <sub>2</sub> ] | A0219438 | 09/10/2025      | 03/10/2025 / anahy      | 12/11/2024 / anahy          | S12974         |

**CHEMICAL RECEIPT LOG BOOK**

| Supplier         | ItemCode / ItemName | Lot #               | Expiration Date | Date Opened /<br>Opened By | Received Date /<br>Received By | Chemtech<br>Lot # |
|------------------|---------------------|---------------------|-----------------|----------------------------|--------------------------------|-------------------|
| Seidler Chemical | DIW / DI Water      | Daily Lab-Certified | 07/03/2029      | 07/03/2024 /<br>lwona      | 07/03/2024 /<br>lwona          | W3112             |

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5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

**Catalog No.:** Lot No.: **Storage:** **Solvent:** **Exp. Date:** **Description:**  
Z-112090 440246  $\leq -10^{\circ}\text{C}$  Methylene Chloride 2/16/2026 CLP Acid Surrogate Solution, 7,500 mg/L, 1 mL  
-04

| Compound                      | CAS No.    | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-------------------------------|------------|------------|------------------|---------------------|
| 2-chlorophenol-d <sub>4</sub> | 93951-73-6 | 99.3       | 248.12.7P        | 7487 $\pm$ 17.2     |
| 2-fluorophenol                | 367-12-4   | 99.8       | 10.7.3.3P        | 7513 $\pm$ 17.26    |
| phenol-d <sub>6</sub>         | 13127-88-3 | 99.9       | 949.120.8P       | 7481 $\pm$ 17.19    |
| 2,4,6-tribromophenol          | 118-79-6   | 99.8       | 12.1.6P          | 7469 $\pm$ 17.17    |

Received on

02/25/21

by  
CG

S9236  
to

S9240

\*Not a certified value

Manufactured by o2si smart solutions, Accredited to ISO 9001:2008 by NSF and ISO/IEC 17025:2005 (Certification No. 3031.01) and ISO Guide 34:2009 (Certification No. 3031.02) by A2LA

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values listed are determined gravimetrically.

Certified By: \_\_\_\_\_

Erica Castiglione  
Chemist



**PRODUCTOS  
QUÍMICOS  
MONTERREY, S.A. DE C.V.**

MIRADOR 201, COL. MIRADOR  
MONTERREY, N.L. MEXICO  
CP 64070  
TEL +52 81 13 52 57 57  
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: | ABR/21/2023                     |
| LOT NUMBER :           | 313201                            |               |                                 |

| TEST                                     | SPECIFICATIONS | LOT VALUES  |
|------------------------------------------|----------------|-------------|
| Assay (Na <sub>2</sub> SO <sub>4</sub> ) | Min. 99.0%     | 99.7 %      |
| pH of a 5% solution at 25°C              | 5.2 - 9.2      | 6.1         |
| Insoluble matter                         | Max. 0.01%     | 0.005 %     |
| 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%     | 0.002 %     |
| Magnesium (Mg)                           | Max. 0.005%    | 0.001 %     |
| Potassium (K)                            | Max. 0.008%    | 0.003 %     |
| 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%        | 0.1 %       |
| Retained on US Standard No. 60 sieve     | Min. 94%       | 97.3 %      |
| Through US Standard No. 60 sieve         | Max. 5%        | 2.5 %       |
| 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.

Recd. by R3 on 7/24/23 E 3551

RC-02-01, Ed. 3



# 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.

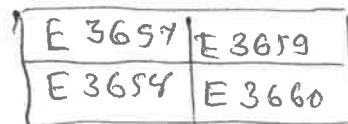
This document has been electronically produced and is valid without a signature.

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.



Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)

Avantor

Material No.: 9266-A4  
Batch No.: 25A0262002  
Manufactured Date: 2024-11-21  
Expiration Date: 2026-02-20  
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)                        | $\leq 10$              | 4                 |
| Assay ( $\text{CH}_2\text{Cl}_2$ ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$         | 99.9 %            |
| Color (APHA)                                                                               | $\leq 10$              | 10                |
| Residue after Evaporation                                                                  | $\leq 1.0 \text{ ppm}$ | 0.8 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

E 3874



Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700



Acetone

BAKER RESI-ANALYZED® Reagent

For Organic Residue Analysis

 avantor

Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

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 %     | 100.0 %     |
| Color (APHA)                                                            | <= 10         | 5           |
| Residue after Evaporation                                               | <= 1.0 ppm    | 0.0 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 %      | <0.1 %      |
| 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 &amp; DC

E3902



Jamie Croak

Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087 U.S.A. Phone 610.386.1700



Acetone

BAKER RESI-ANALYZED® Reagent  
For Organic Residue Analysis

Avantor™



Material No.: 9254-03

Batch No.: 24H2762008

Manufactured Date: 2024-04-18

Expiration Date: 2027-04-18

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 %     | 100.0 %     |
| Color (APHA)                                                            | <= 10         | 5           |
| Residue after Evaporation                                               | <= 1.0 ppm    | 0.0 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 %      | <0.1 %      |
| 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

Recd. by RS on 3/19/25

Country of Origin: United States

Packaging Site: Phillipsburg Mfg Ctr & DC

E3915

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials LLC

Methylene Chloride  
ULTRA RESI-ANALYZED  
For Organic Residue Analysis  
(dichloromethane)



Material No.: 9266-A4  
Batch No.: 25A0262002  
Manufactured Date: 2024-11-21  
Expiration Date: 2026-02-20  
Revision No.: 0

Certificate of Analysis

| Test                                                                                             | Specification | Result  |
|--------------------------------------------------------------------------------------------------|---------------|---------|
| FID-Sensitive Impurities (as 2-Octanol)Single Impurity Peak (ng/mL)                              | <= 5          | 1       |
| ECD Sensitive Impurities (as HeptachlorEpoxide) Single Peak (pg/mL)                              | <= 10         | 4       |
| Assay (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | >= 99.8 %     | 99.9 %  |
| Color (APHA)                                                                                     | <= 10         | 10      |
| Residue after Evaporation                                                                        | <= 1.0 ppm    | 0.8 ppm |
| Titration Acid (µeq/g)                                                                           | <= 0.3        | <0.1    |
| Chloride (Cl)                                                                                    | <= 10 ppm     | <5 ppm  |
| Water (by KF, coulometric)                                                                       | <= 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

E 3926

*J. Croak*  
Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700  
Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 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 (CH <sub>2</sub> Cl <sub>2</sub> ) (by GC, exclusive of preservative, corrected for water) | $\geq 99.8 \%$ | 99.9 %  |
| Color (APHA)                                                                                     | $\leq 10$      | 5       |
| Residue after Evaporation                                                                        | $\leq 1.0$ ppm | 0.3 ppm |
| Titration Acid ( $\mu$ eq/g)                                                                     | $\leq 0.3$     | <0.1    |
| Chloride (Cl)                                                                                    | $\leq 10$ ppm  | <5 ppm  |
| Water (by KF, coulometric)                                                                       | $\leq 0.02 \%$ | <0.01 % |

For Laboratory, Research, or Manufacturing Use  
MEETS SPECIFICATIONS WITHIN THE EXPIRATION PERIOD

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

E3939

Jamie Croak  
Director Quality Operations, Bioscience Production

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700

Avantor Performance Materials, LLC

100 Matsonford Rd, Suite 200, Radnor, PA, 19087, U.S.A. Phone 610.386.1700

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium

avantor™



MG157  
MS

Material No.: 9673-33

Batch No.: 24I1262013

Manufactured Date: 2024-08-07

Retest Date: 2029-08-06

Revision No.: 0

## Certificate of Analysis

| Test                                                        | Specification | Result      |
|-------------------------------------------------------------|---------------|-------------|
| ACS – Assay (H <sub>2</sub> SO <sub>4</sub> )               | 95.0 – 98.0 % | 96.2 %      |
| Appearance                                                  | Passes Test   | Passes Test |
| ACS – Color (APHA)                                          | <= 10         | 5           |
| ACS – Residue after Ignition                                | <= 3 ppm      | <1 ppm      |
| ACS – Substances Reducing Permanganate(as SO <sub>2</sub> ) | <= 2 ppm      | <2 ppm      |
| Ammonium (NH <sub>4</sub> )                                 | <= 1 ppm      | <1 ppm      |
| Chloride (Cl)                                               | <= 0.1 ppm    | <0.1 ppm    |
| Nitrate (NO <sub>3</sub> )                                  | <= 0.2 ppm    | 0.1 ppm     |
| Phosphate (PO <sub>4</sub> )                                | <= 0.5 ppm    | <0.1 ppm    |
| Trace Impurities – Aluminum (Al)                            | <= 30.0 ppb   | <5.0 ppb    |
| Arsenic & Antimony (as As)                                  | <= 4.0 ppb    | <2.0 ppb    |
| Trace Impurities – Boron (B)                                | <= 10.0 ppb   | <5.0 ppb    |
| Trace Impurities – Cadmium (Cd)                             | <= 2.0 ppb    | <1.0 ppb    |
| Trace Impurities – Chromium (Cr)                            | <= 6.0 ppb    | <1.0 ppb    |
| Trace Impurities – Cobalt (Co)                              | <= 0.5 ppb    | <0.3 ppb    |
| Trace Impurities – Copper (Cu)                              | <= 1.0 ppb    | <1.0 ppb    |
| Trace Impurities – Gold (Au)                                | <= 10.0 ppb   | <5.0 ppb    |
| Heavy Metals (as Pb)                                        | <= 500.0 ppb  | <100.0 ppb  |
| Trace Impurities – Iron (Fe)                                | <= 50.0 ppb   | <1.0 ppb    |
| Trace Impurities – Lead (Pb)                                | <= 0.5 ppb    | <0.5 ppb    |
| Trace Impurities – Magnesium (Mg)                           | <= 7.0 ppb    | <1.0 ppb    |
| Trace Impurities – Manganese (Mn)                           | <= 1.0 ppb    | <1.0 ppb    |
| Trace Impurities – Mercury (Hg)                             | <= 0.5 ppb    | <0.1 ppb    |
| Trace Impurities – Nickel (Ni)                              | <= 2.0 ppb    | <0.3 ppb    |
| Trace Impurities – Potassium (K)                            | <= 500.0 ppb  | <10.0 ppb   |
| Trace Impurities – Selenium (Se)                            | <= 50.0 ppb   | 7.2 ppb     |
| Trace Impurities – Silicon (Si)                             | <= 100.0 ppb  | 12.8 ppb    |
| Trace Impurities – Silver (Ag)                              | <= 1.0 ppb    | <1.0 ppb    |

Sulfuric Acid  
BAKER INSTRA-ANALYZED® Reagent  
For Trace Metal Analysis  
Low Selenium



Material No.: 9673-33  
Batch No.: 24I1262013

| Test                              | Specification    | Result      |
|-----------------------------------|------------------|-------------|
| Trace Impurities – Sodium (Na)    | $\leq 500.0$ ppb | $< 5.0$ ppb |
| Trace Impurities – Strontium (Sr) | $\leq 5.0$ ppb   | $< 1.0$ ppb |
| Trace Impurities – Tin (Sn)       | $\leq 5.0$ ppb   | 1.1 ppb     |
| Trace Impurities – Zinc (Zn)      | $\leq 5.0$ ppb   | $< 1.0$ ppb |

For Laboratory, Research, or Manufacturing Use

Country of Origin: United States  
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Croak  
Director Quality Operations, Bioscience Production



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: Shane C. Tipton  
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.



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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. :** 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.





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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. :** 31853 **Lot No.:** A0196453  
**Description :** 1,4-dioxane  
1,4-Dioxane 2,000µg/mL, Methylene Chloride, 1mL/ampul  
**Container Size :** 2 mL **Pkg Amt:** > 1 mL  
**Expiration Date :** March 31, 2028 **Storage:** 0°C or colder  
**Ship:** Ambient

S11749  
↓  
S11794 } 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 | SHBN3770 | 99%    | 2,013.0 µg/mL               | +/- 25.0521                            |

\* 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:**

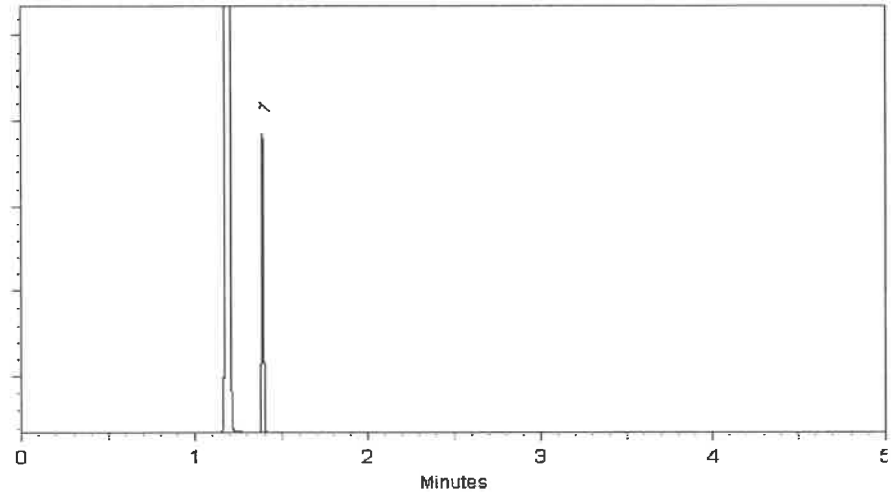
FID

**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.

*Sam Moodler*  
Sam Moodler - Operations Tech I

Date Mixed: 30-Mar-2023

Balance Serial # B707717271

*Jennifer Pollino*  
Jennifer Pollino - Operations Tech III - ARM QC

Date Passed: 31-Mar-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:**

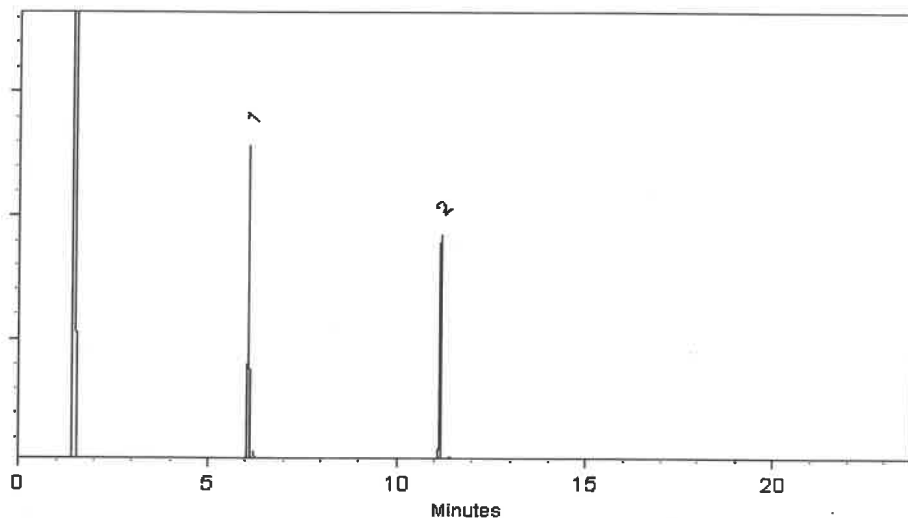
FID

**Split Vent:**

10 ml/min.

**Inj. Vol**

1µl

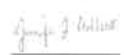


This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

  
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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by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

|              |          |          |              |            |                                          |
|--------------|----------|----------|--------------|------------|------------------------------------------|
| Catalog No.: | Lot No.: | Storage: | Solvent:     | Exp. Date: | Description:                             |
| Z-020223-01  | 454157   | ≤ -10 °C | P/T Methanol | 6/10/2026  | 1,4-Dioxane Solution, 2000 mg/L,<br>1 mL |

| Compound    | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-------------|----------|------------|------------------|---------------------|
| 1,4-dioxane | 123-91-1 | 100        | 223.1.3P         | 1997 ± 57.08        |

512112 } RC/  
↓  
912116 } 03/08/24

\*Not a certified value

Certified By: \_\_\_\_\_

Melissa Workoff  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31087 **Lot No.:** A0206206  
**Description :** Acid Surrogate Mix (4/89 SOW)  
Acid Surrogate 10, 000µg/mL, Methanol, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** January 31, 2032 **Storage:** 10°C or colder  
**Ship:** Ambient

512187 } RC/  
↓  
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:**

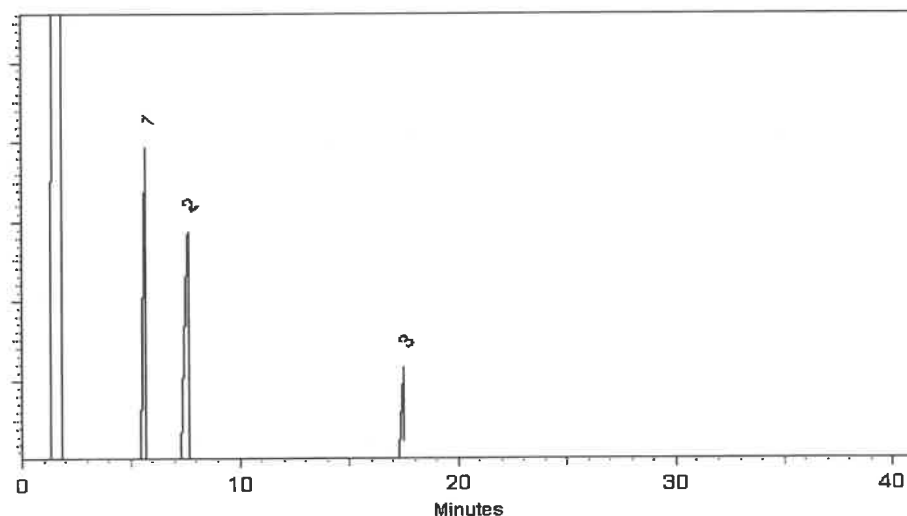
FID

**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

Date Mixed: 04-Jan-2024

Balance Serial # 1128360905

*Christie Mills*

Christie Mills - Operations Lead Tech - ARM QC

Date Passed: 08-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31086 **Lot No.:** A0206381  
**Description :** B/N Surrogate Mix (4/89 SOW)  
Base Neutral Surrogate 5000µg/mL, Methylene Chloride, 5mL/ampul  
**Container Size :** 5 mL **Pkg Amt:** > 5 mL  
**Expiration Date :** December 31, 2029 **Storage:** 10°C or colder  
**Handling:** Sonicate prior to use. **Ship:** Ambient

S12207 } RC/  
↓  
S12221 } 03/18/24

### CERTIFIED VALUES

| Elution Order | Compound         | CAS #     | Lot #    | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|------------------|-----------|----------|--------|-----------------------------|----------------------------------------|
| 1             | Nitrobenzene-d5  | 4165-60-0 | I-25158  | 99%    | 5,029.3 µg/mL               | +/- 226.5204                           |
| 2             | 2-Fluorobiphenyl | 321-60-8  | 00021384 | 99%    | 5,030.9 µg/mL               | +/- 226.5936                           |
| 3             | p-Terphenyl-d14  | 1718-51-0 | PR-32599 | 99%    | 5,026.4 µg/mL               | +/- 226.3909                           |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

### Tech Tips:

Due to the limited solubility of p-terphenyl-d14 in methanol, we do not recommend that this mixture be diluted in methanol.

# Quality Confirmation Test

**Column:**

30m x 0.25mm x 0.25µm  
Rtx-S (cat.#10223)

**Carrier Gas:**

hydrogen-constant pressure 10 psi.

**Temp. Program:**

40°C (hold 2 min.) to 330°C  
@ 10°C/min. (hold 10 min.)

**Inj. Temp:**

250°C

**Det. Temp:**

330°C

**Det. Type:**

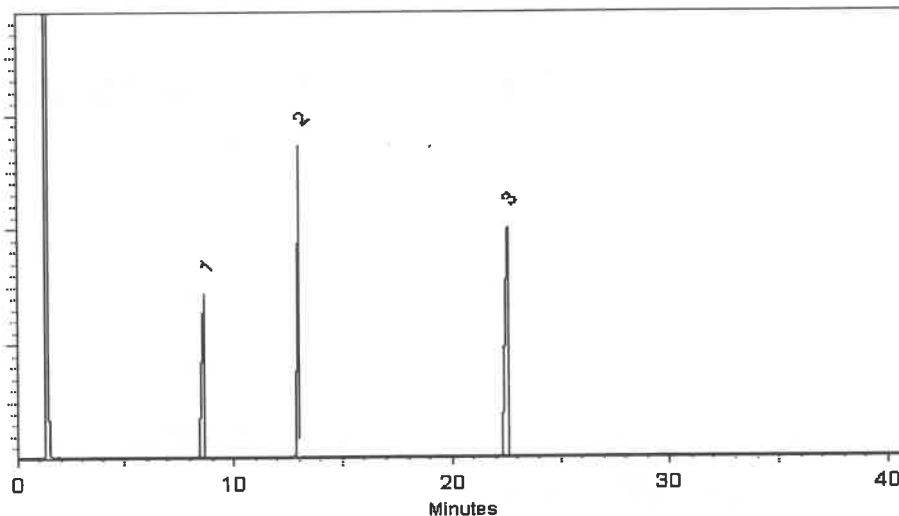
FID

**Split Vent:**

2 ml/min.

**Inj. Vol**

1µl



This chromatogram represents a general set of testing conditions chosen for product acceptance. For optimal results in your lab, conditions should be adjusted for your specific instrument, method, and application.

Jess Hoy - Operations Tech I

Jennifer Pollino - Operations Tech III - ARM QC

Date Mixed: 09-Jan-2024

Balance Serial # 1128360905

Date Passed: 11-Jan-2024

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 4

|                     |                 |                 |                    |                   |                                                                |
|---------------------|-----------------|-----------------|--------------------|-------------------|----------------------------------------------------------------|
| <b>Catalog No.:</b> | <b>Lot No.:</b> | <b>Storage:</b> | <b>Solvent:</b>    | <b>Exp. Date:</b> | <b>Description:</b>                                            |
| Z-110381-01         | 520963          | ≤ -10 °C        | Methylene Chloride | 10/10/2028        | Method 8270 Calibration Solution, 76-1, 500 & 1,000 mg/L, 1 mL |

| Compound                          | CAS No.  | Purity (%) | Compound Lot No. | Concentration, mg/L |
|-----------------------------------|----------|------------|------------------|---------------------|
| acenaphthene                      | 83-32-9  | 99.9       | 13.1.5P          | 1010 ± 9.89         |
| acenaphthylene                    | 208-96-8 | 97.6       | 14.290.1P        | 1014 ± 9.93         |
| aniline                           | 62-53-3  | 99.97      | 64.1.4P          | 1001 ± 9.8          |
| anthracene                        | 120-12-7 | 99.5       | 15.7.1P          | 999.6 ± 9.79        |
| azobenzene                        | 103-33-3 | 98.1       | 252.7.2P         | 999.1 ± 9.8         |
| benzo[a]anthracene                | 56-55-3  | 100        | 16.7.3P          | 1007 ± 9.86         |
| benzo[b]fluoranthene              | 205-99-2 | 99.8       | 17.421.3P        | 1011 ± 14.11        |
| benzo[k]fluoranthene              | 207-08-9 | 98.9       | 18.421.4P        | 1001 ± 10.96        |
| benzo[ghi]perylene                | 191-24-2 | 93         | 19.286.4P        | 999.6 ± 13.95       |
| benzo[a]pyrene                    | 50-32-8  | 97         | 20.286.2P        | 999.9 ± 22.24       |
| benzyl alcohol                    | 100-51-6 | 99.9       | 65.18.1P         | 1001 ± 9.82         |
| bis(2-chloroethoxy)methane        | 111-91-1 | 99.1       | 31.3.15P         | 1000 ± 14.69        |
| bis(2-chloroethyl)ether           | 111-44-4 | 99.8       | 32.7.1P          | 1003 ± 13.89        |
| bis(2-chloro-1-methylethyl) ether | 108-60-1 | 99.5       | 34.3.15P         | 999.4 ± 14.68       |
| bis(2-ethylhexyl)adipate          | 103-23-1 | 99.5       | 874.7.1P         | 999.5 ± 9.8         |
| bis(2-ethylhexyl)phthalate        | 117-81-7 | 99.4       | 33.29.1P         | 998.8 ± 17.03       |
| 4-bromophenyl phenyl ether        | 101-55-3 | 99.4       | 35.7.1.1P        | 1000 ± 13.85        |
| butyl benzyl phthalate            | 85-68-7  | 98.4       | 36.1.6P          | 984.7 ± 16.79       |
| carbazole                         | 86-74-8  | 99.4       | 239.7.2P         | 1000 ± 9.8          |

\*Not a certified value

512270 } RC/  
↓  
512274 } 05/24/24

*Kerry Kane*

Certified By: \_\_\_\_\_

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
Concentration (correct for purity) and uncertainty (95% confidence) values  
listed are determined gravimetrically.

# Certificate of Analysis

Page 2 of 4

Catalog No.: Z-110381-01

Lot No.: 520963

Expiration Date: 10/10/2028

| Compound                   | CAS No.   | Purity (%) | Compound Lot No. | Concentration, mg/L |
|----------------------------|-----------|------------|------------------|---------------------|
| 4-chloroaniline            | 106-47-8  | 100        | 66.7.1P          | 1000 ± 9.79         |
| 4-chlorophenylphenyl ether | 7005-72-3 | 98         | 37.158.2P        | 1001 ± 17.07        |
| 4-chloro-3-methylphenol    | 59-50-7   | 99         | 102.1.2P         | 1006 ± 17.16        |
| 2-chloronaphthalene        | 91-58-7   | 99.9       | 42.7.6P          | 1000 ± 9.79         |
| 2-chlorophenol             | 95-57-8   | 99.8       | 103.7.1P         | 1007 ± 13.96        |
| chrysene                   | 218-01-9  | 96         | 21.286.2P        | 998.4 ± 12.85       |
| dibenz[a,h]anthracene      | 53-70-3   | 99.44      | 22.286.3P        | 1000 ± 9.74         |
| dibenzofuran               | 132-64-9  | 100        | 67.7.2.1P        | 1002 ± 9.77         |
| di-n-butyl phthalate       | 84-74-2   | 99.84      | 40.286.1P        | 1007 ± 24.48        |
| 1,2-dichlorobenzene        | 95-50-1   | 99.8       | 43.7.1P          | 1000 ± 9.79         |
| 1,3-dichlorobenzene        | 541-73-1  | 99.5       | 44.1.3P          | 999.4 ± 9.79        |
| 1,4-dichlorobenzene        | 106-46-7  | 99.9       | 45.29.2P         | 1000 ± 9.79         |
| 2,4-dichlorophenol         | 120-83-2  | 99.6       | 104.7.1.1P       | 1005 ± 13.93        |
| diethyl phthalate          | 84-66-2   | 99.8       | 38.7.1P          | 1011 ± 14           |
| 2,4-dimethylphenol         | 105-67-9  | 99.6       | 105.7.1.1P       | 1009 ± 13.98        |
| dimethyl phthalate         | 131-11-3  | 99.9       | 39.9.2P          | 996.5 ± 13.8        |
| 1,2-dinitrobenzene         | 528-29-0  | 99.86      | 86.7.3.1P        | 999.5 ± 9.75        |
| 1,3-dinitrobenzene         | 99-65-0   | 100        | 313.7.2P         | 998 ± 9.79          |
| 1,4-dinitrobenzene         | 100-25-4  | 100        | 907.7.1P         | 999.5 ± 9.8         |
| 2,4-dinitrophenol          | 51-28-5   | 99.9       | 106.1.6DP        | 1002 ± 13.89        |
| 2,4-dinitrotoluene         | 121-14-2  | 100        | 87.7.3P          | 999.8 ± 13.85       |
| 2,6-dinitrotoluene         | 606-20-2  | 99.4       | 88.7.2.1P        | 999.6 ± 13.85       |
| di-n-octyl phthalate       | 117-84-0  | 99.1       | 41.7.5P          | 991.6 ± 13.74       |
| diphenylamine              | 122-39-4  | 100        | 78.1.6P          | 998 ± 13.79         |
| 2,3,5,6-tetrachlorophenol  | 935-95-5  | 97         | 1112.286.1P      | 1004 ± 14.02        |
| fluoranthene               | 206-44-0  | 98.6       | 23.7.4P          | 999.6 ± 9.79        |
| fluorene                   | 86-73-7   | 98.4       | 24.7.1P          | 999.7 ± 9.79        |

\*Not a certified value

*Kerry Kane*

Certified By:

Kerry Kane  
Chemist

All weights are traceable through N. I. S. T. Test No. 822/264157-00.  
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# 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.  
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# 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



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  
Bellefonte, PA 16823-8812  
Tel: 1-814-353-1300  
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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.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 555224 **Lot No.:** A0214017

**Description :** Custom 8270 Plus Standard #2

Custom 8270 Plus Standard #2 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** July 31, 2026 **Storage:** 10°C or colder

**Ship:** Ambient

### CERTIFIED VALUES

| Component # | Compound                   | CAS #    | Lot #        | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|-------------|----------------------------|----------|--------------|--------|-----------------------------|----------------------------------------|
| 1           | 1,2,4,5-Tetrachlorobenzene | 95-94-3  | MKCT9480     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 2           | Acetophenone               | 98-86-2  | STBH8205     | 99%    | 1,005.0 µg/mL               | +/- 29.541899                          |
| 3           | Benzaldehyde               | 100-52-7 | RD231129RSRA | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |
| 4           | Benzoic acid               | 65-85-0  | MKCR2694     | 99%    | 1,010.0 µg/mL               | +/- 29.688874                          |
| 5           | Biphenyl                   | 92-52-4  | MKCS5928     | 99%    | 1,008.0 µg/mL               | +/- 29.630084                          |

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12509 } RC/  
↓  
S12568 } 7/24/24

Jess Hoy - Operations Tech I

Date Mixed: 18-Jul-2024

Balance: 1128360905

Manufactured under Restek's ISO 9001:2015  
Registered Quality System  
Certificate #FM 80397

## General Certified Reference Material Notes

### Expiration Notes:

- Expiration date valid for unopened ampul stored in compliance with the recommended conditions.
- Uncertainty, concentration, and expiration of the CRM are based on the unopened product being stored according to the recommended condition found in the storage field.

### Purity Notes:

- Purity and/or chemical identity are determined by one or more of the following techniques: GC/FID, HPLC, GC/μECD, GC/MS, LC/MS, RI, and/or melting point.
- Compounds with a listed purity of less than 99% have been weight corrected to compensate for impurities and/or salts. A correction factor is used to calculate the amount of compound necessary to achieve the desired concentration of the parent compound in solution.
- Purity of isomeric compounds is reported as the sum of the isomers.
- Purity values are rounded to the nearest whole number.

### Certified Uncertainty Value Notes:

- The uncertainties are determined in accordance with ISO 17034 and Guide 35. The certified expanded uncertainty value includes gravimetric uncertainty, homogeneity between-ampul uncertainty, storage stability uncertainty and shipping stability uncertainty and were combined using the following formula:

$$U_{combined\ uncertainty} = k \sqrt{u_{gravimetric}^2 + u_{homogeneity}^2 + u_{storage\ stability}^2 + u_{shipping\ stability}^2}$$

$k$  is a coverage factor of 2, which gives a level of confidence of approximately 95%.

- The packaged amount is the minimum sample size for which uncertainty is valid. The ampuls are over-filled to ensure that the minimum packaged amount can be sufficiently transferred.

### Manufacturing Notes:

- Concentration is based upon gravimetric preparation using either a balance whose calibration has been verified daily using NIST traceable weights, and/or dilutions with Class A glassware.

### Handling Notes:

- Stability of the unopened product, when stored in compliance with the recommended conditions, is guaranteed through the expiration displayed on the product label and certificate. Contact Restek for additional opened product stability information, with the knowledge/understanding that open product stability is subject to the specific handling and environmental conditions to which the product is exposed. For your convenience Restek supplies deactivated vials with most standards packed in 2mL ampuls. Larger volume deactivated vials are available through Restek as a custom ordered item. Additionally, Restek sells DMDCS for the purpose of glassware deactivation as catalog number 31861, which includes complete instructions.
- If any undissolved material is visible inside the ampul, sonicate the unopened ampul until the material is completely dissolved.



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## CERTIFIED REFERENCE MATERIAL

# Certificate of Analysis

chromatographic plus



### FOR LABORATORY USE ONLY-READ SDS PRIOR TO USE.

*This Reference Material is intended for Laboratory Use Only as a standard for the qualitative and/or quantitative determination of the analyte(s) listed.*

**Catalog No. :** 31615 **Lot No.:** A0212955

**Description :** GC/MS Tuning Mixture  
GC/MS Tuning Mixture 1,000µg/mL, Methylene Chloride, 1mL/ampul

**Container Size :** 2 mL **Pkg Amt:** > 1 mL

**Expiration Date :** June 30, 2027 **Storage:** 10°C or colder

**Handling:** Contains carcinogen/reproductive toxin. **Ship:** Ambient

### CERTIFIED VALUES

| Elution Order | Compound                             | CAS #     | Lot #       | Purity | Grav. Conc. (weight/volume) | Expanded Uncertainty * (95% C.L.; K=2) |
|---------------|--------------------------------------|-----------|-------------|--------|-----------------------------|----------------------------------------|
| 1             | Pentachlorophenol                    | 87-86-5   | RP240517RSR | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 2             | DFTPP (Decafluorotriphenylphosphine) | 5074-71-5 | Q117-147    | 99%    | 1,004.5 µg/mL               | +/- 44.8902                            |
| 3             | Benzidine                            | 92-87-5   | S240430RSR  | 99%    | 1,006.0 µg/mL               | +/- 44.9572                            |
| 4             | 4,4'-DDT                             | 50-29-3   | S240530RSR  | 97%    | 1,000.1 µg/mL               | +/- 44.6922                            |

\* Expanded Uncertainty displayed in same units as Grav. Conc.

**Solvent:** Methylene chloride  
**CAS #** 75-09-2  
**Purity** 99%

S12577  
↓  
S12579 } RC  
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.)

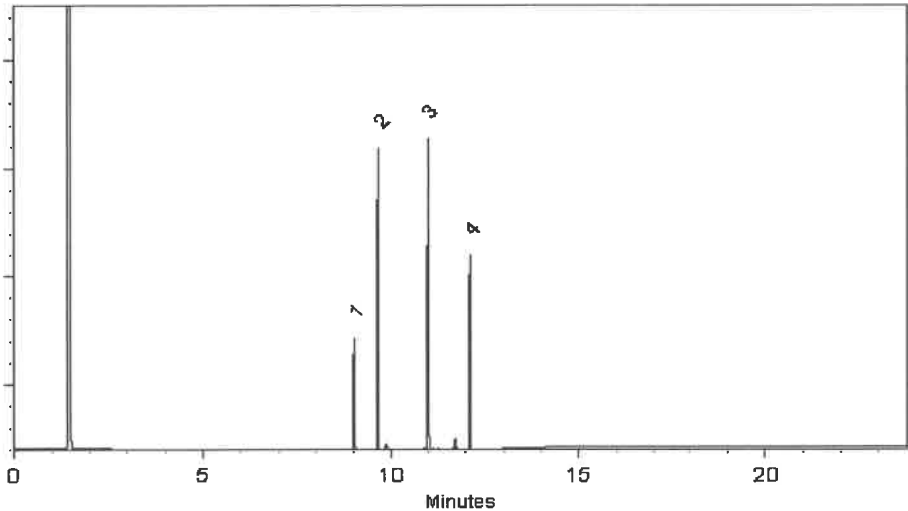
**Inj. Temp:**  
250°C

**Det. Temp:**  
330°C

**Det. Type:**  
FID

**Split Vent:**  
10 ml/min.

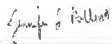
**Inj. Vol**  
1µl



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



5580 Skylane Blvd  
Santa Rosa, CA 95403

(707)525-5788  
(800)878-7654 Toll Free  
(707)545-7901 Fax

Manufacturer's Quality System  
Audited & Registered  
by TUV USA to ISO 9001:2015

Date Received: \_\_\_\_\_

## Certificate of Analysis

Rev 0

Page 1 of 1

|              |          |          |                    |            |                                           |
|--------------|----------|----------|--------------------|------------|-------------------------------------------|
| Catalog No.: | Lot No.: | Storage: | Solvent:           | Exp. Date: | Description:                              |
| Z-110816-01  | 414127   | ≤ -10 °C | Methylene Chloride | 6/21/2025  | 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       | 337.7.3P         | 997 ± 5.81          |
| benzidine   | 92-87-5   | 99.9       | 124.18.6.2P      | 991.8 ± 5.77        |
| caprolactam | 105-60-2  | 99.9       | 271.1.6P         | 999 ± 5.82          |

~~512280~~ } RCL  
↓  
~~512284~~ } 05/24/24

New Numbers Generated.

512790 } RCL  
↓  
512794 } 11/12/24

\*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: \_\_\_\_\_

Shane Overcash  
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

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.



# SHIPPING DOCUMENTS

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-------------|-----|-----|---|-------------------------------------------------------------------------------|--|--|------------------------------------------------------------------------------|---|---|---|---|---|---|---|---|---|--|
| <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: <span style="font-size: 1.2em;">Q2316</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
|                                                                                                                                                                             |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             | COC Number:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| CLIENT INFORMATION                                                                                                                                                          |                                  | PROJECT INFORMATION                                                                                                                                                                                                                                                                                                                                                                            |                             | BILLING INFORMATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| COMPANY: Tetra Tech<br>ADDRESS: 4433 Corporation Ln, Suite 300<br>CITY: Virginia Beach STATE: VA ZIP: 23462<br>ATTENTION: Ernie Wu<br>PHONE: 757-466-4901 FAX: 757-461-4148 |                                  | PROJECT NAME: NWIRP Bethpage<br>PROJECT #: 112G08005-WE13 LOCATION: RW8<br>PROJECT MANAGER: Ernie Wu<br>E-MAIL: ernie.wu@tetrattech.com<br>PHONE: 757-466-4901 FAX: 757-461-4148                                                                                                                                                                                                               |                             | BILL TO: PO#<br>ADDRESS:<br>CITY: STATE: ZIP:<br>ATTENTION: PHONE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| DATA TURNAROUND INFORMATION                                                                                                                                                 |                                  | DATA DELIVERABLE INFORMATION                                                                                                                                                                                                                                                                                                                                                                   |                             | ANALYSIS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| FAX: 10 DAYS*<br>HARD COPY: 10 DAYS*<br>EDD: 10 DAYS*<br>* TO BE APPROVED BY CHEMTECH<br>STANDARD TURNAROUND TIME IS 10 BUSINESS DAYS                                       |                                  | <input type="checkbox"/> RESEULTS 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; text-align: center;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 0.8em;">1,4-Dioxane SW846 8270</td> <td style="font-size: 0.8em;">SIM</td> <td style="font-size: 0.8em;">Iron, Total</td> <td style="font-size: 0.8em;">TSS</td> <td style="font-size: 0.8em;">TDS</td> <td></td> <td></td> <td></td> <td></td> <td></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></td> </tr> </table> |              | 1,4-Dioxane SW846 8270                                                                                                                                                                                                                                                                     | SIM | Iron, Total | TSS | TDS |   |                                                                               |  |  |                                                                              | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |  |
| 1,4-Dioxane SW846 8270                                                                                                                                                      | SIM                              | Iron, Total                                                                                                                                                                                                                                                                                                                                                                                    | TSS                         | TDS                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 1                                                                                                                                                                           | 2                                | 3                                                                                                                                                                                                                                                                                                                                                                                              | 4                           | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6            | 7                                                                                                                                                                                                                                                                                          | 8   | 9           |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
|                                                                                                                                                                             |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             | PRESERVATIVES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| CHEMTECH<br>SAMPLE<br>ID                                                                                                                                                    | PROJECT<br>SAMPLE IDENTIFICATION | SAMPLE<br>MATRIX                                                                                                                                                                                                                                                                                                                                                                               | SAMPLE<br>TYPE<br>COMP GRAB | SAMPLE<br>COLLECTION<br>DATE TIME                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | # of Bottles |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  | COMMENTS                                                                     |   |   |   |   |   |   |   |   |   |  |
|                                                                                                                                                                             |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | <div style="display: flex; justify-content: space-between;"> <span>1 2 3 4 5 6 7 8 9</span> <span>B</span> </div>                                                                                                                                                                          |     |             |     |     |   |                                                                               |  |  | <-- Specify Preservatives<br>A-HCl B-HNO3<br>C-H2SO4 D-NaOH<br>E-ICE F-Other |   |   |   |   |   |   |   |   |   |  |
| 1.                                                                                                                                                                          | RW8-SP100-20250612               | GW                                                                                                                                                                                                                                                                                                                                                                                             |                             | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6/12/25      | 13:05                                                                                                                                                                                                                                                                                      | 2   | X           | X   |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 2.                                                                                                                                                                          | RW8-SP303-20250612               | GW                                                                                                                                                                                                                                                                                                                                                                                             |                             | X                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6/12/25      | 13:13                                                                                                                                                                                                                                                                                      | 4   | X           | X   | X   | X |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 3.                                                                                                                                                                          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 4.                                                                                                                                                                          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 5.                                                                                                                                                                          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 6.                                                                                                                                                                          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 7.                                                                                                                                                                          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 8.                                                                                                                                                                          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 9.                                                                                                                                                                          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 10.                                                                                                                                                                         |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE PROSESSSION INCLUDING COURIER DELIVERY                                                                     |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| RELINQUISHED BY SAMPLER                                                                                                                                                     |                                  | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                                      |                             | RECEIVED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              | Conditions of bottles or coolers at receipt: <input type="checkbox"/> Compliant <input type="checkbox"/> Non Compliant <input type="checkbox"/> Cooler Temp <span style="font-size: 0.8em;">2.4/2</span><br>MeOH extraction requires an additional 4oz. Jar for percent solid<br>Comments: |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 1.                                                                                                                                                                          |                                  | 6/12/25/1552                                                                                                                                                                                                                                                                                                                                                                                   |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| RELINQUISHED BY                                                                                                                                                             |                                  | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                                      |                             | RECEIVED BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 2.                                                                                                                                                                          |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             | 2.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| RELINQUISHED BY                                                                                                                                                             |                                  | DATE/TIME                                                                                                                                                                                                                                                                                                                                                                                      |                             | RECEIVED FOR LAB BY                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| 3.                                                                                                                                                                          |                                  | 6-12-25                                                                                                                                                                                                                                                                                                                                                                                        |                             | 3.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
|                                                                                                                                                                             |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              | 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 |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |
| WHITE - CHEMTECH COPY FOR RETURN TO CLIENT    YELLOW - CHEMTECH COPY    PINK - SAMPLER COPY                                                                                 |                                  |                                                                                                                                                                                                                                                                                                                                                                                                |                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |              |                                                                                                                                                                                                                                                                                            |     |             |     |     |   |                                                                               |  |  |                                                                              |   |   |   |   |   |   |   |   |   |  |

### Laboratory Certification

| Certified By         | License No.      |
|----------------------|------------------|
| CAS EPA CLP Contract | 68HERH20D0011    |
| Connecticut          | PH-0830          |
| DOD ELAP (ANAB)      | L2219            |
| Maine                | 2024021          |
| Maryland             | 296              |
| New Hampshire        | 255424 Rev 1     |
| New Jersey           | 20012            |
| New York             | 11376            |
| Pennsylvania         | 68-00548         |
| Soil Permit          | 525-24-234-08441 |
| Texas                | T104704488       |

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Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037225.D  
 Acq On : 13 Jun 2025 13:33  
 Operator : RC/JU  
 Sample : SSTDICC0.1  
 Misc :  
 ALS Vial : 3 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

Quant Time: Jun 13 18:36:23 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:34:15 2025  
 Response via : Initial Calibration

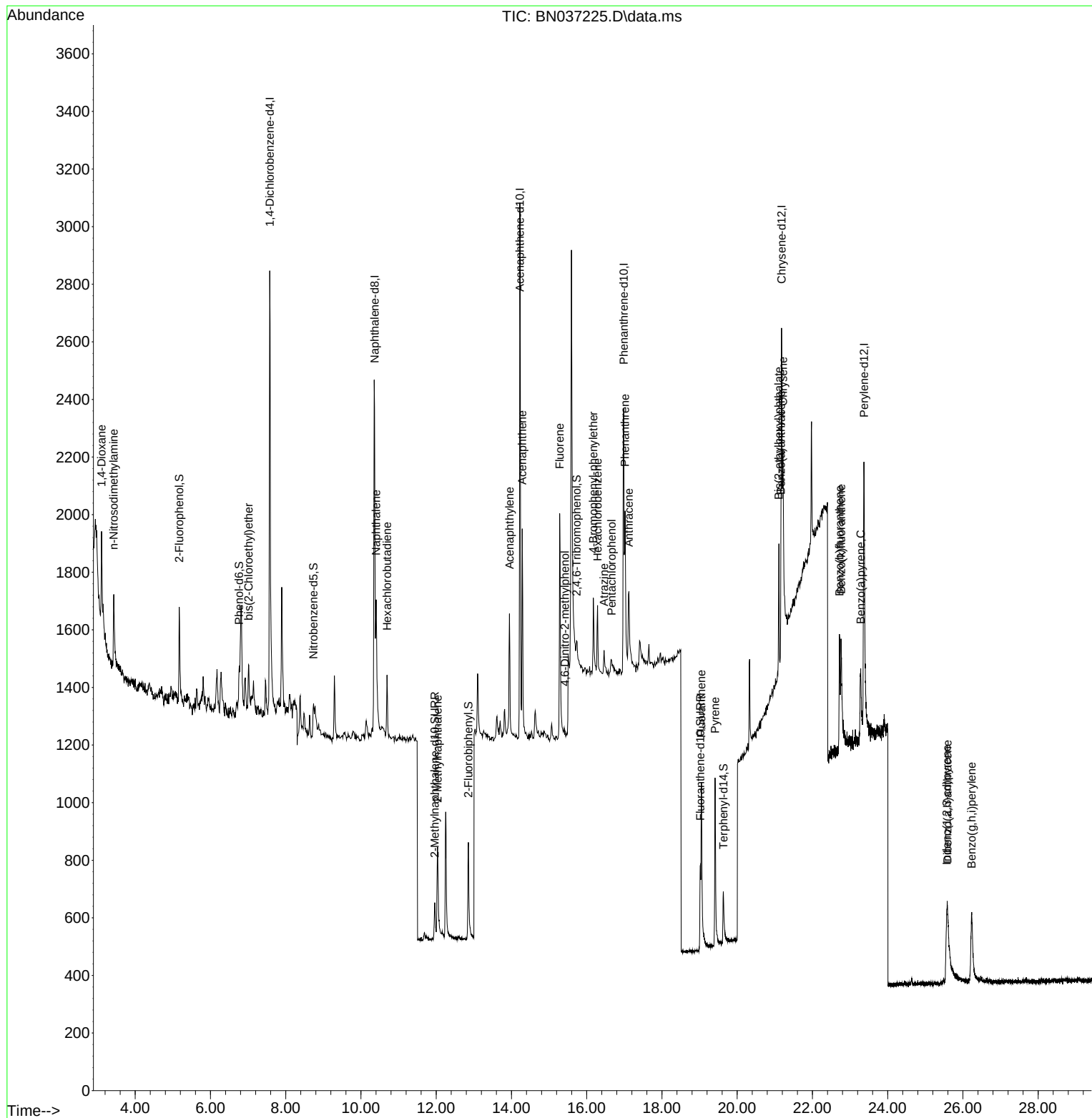
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 859      | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.362 | 136  | 2097     | 0.400 | ng    | # 0.00   |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1114     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.984 | 188  | 1916     | 0.400 | ng    | 0.01     |
| 29) Chrysene-d12              | 21.180 | 240  | 1546     | 0.400 | ng    | # 0.00   |
| 35) Perylene-d12              | 23.368 | 264  | 1617     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.170  | 112  | 224      | 0.106 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.759  | 99   | 188      | 0.085 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.739  | 82   | 192      | 0.093 | ng    | 0.01     |
| 11) 2-Methylnaphthalene-d10   | 11.960 | 152  | 260      | 0.092 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 35       | 0.076 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.853 | 172  | 436      | 0.093 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.021 | 212  | 486      | 0.097 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.635 | 244  | 315      | 0.090 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.104  | 88   | 145      | 0.123 | ng    | # 54     |
| 3) n-Nitrosodimethylamine     | 3.429  | 42   | 293      | 0.109 | ng    | # 97     |
| 6) bis(2-Chloroethyl)ether    | 7.012  | 93   | 165      | 0.083 | ng    | 85       |
| 9) Naphthalene                | 10.404 | 128  | 622      | 0.102 | ng    | # 77     |
| 10) Hexachlorobutadiene       | 10.693 | 225  | 157      | 0.106 | ng    | # 95     |
| 12) 2-Methylnaphthalene       | 12.036 | 142  | 331      | 0.090 | ng    | # 93     |
| 16) Acenaphthylene            | 13.946 | 152  | 531      | 0.097 | ng    | 95       |
| 17) Acenaphthene              | 14.288 | 154  | 346      | 0.098 | ng    | 96       |
| 18) Fluorene                  | 15.282 | 166  | 430      | 0.095 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.421 | 198  | 15       | 0.146 | ng    | # 26     |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 119      | 0.095 | ng    | 91       |
| 22) Hexachlorobenzene         | 16.289 | 284  | 164      | 0.113 | ng    | 96       |
| 23) Atrazine                  | 16.462 | 200  | 107      | 0.096 | ng    | # 63     |
| 24) Pentachlorophenol         | 16.661 | 266  | 52       | 0.073 | ng    | # 82     |
| 25) Phenanthrene              | 17.021 | 178  | 600      | 0.099 | ng    | 100      |
| 26) Anthracene                | 17.120 | 178  | 524      | 0.094 | ng    | 100      |
| 28) Fluoranthene              | 19.049 | 202  | 704      | 0.099 | ng    | 99       |
| 30) Pyrene                    | 19.412 | 202  | 715      | 0.098 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.162 | 228  | 454      | 0.087 | ng    | # 79     |
| 33) Chrysene                  | 21.215 | 228  | 689      | 0.106 | ng    | # 85     |
| 34) Bis(2-ethylhexyl)phtha... | 21.108 | 149  | 432      | 0.111 | ng    | # 96     |
| 36) Indeno(1,2,3-cd)pyrene    | 25.570 | 276  | 609      | 0.093 | ng    | # 74     |
| 37) Benzo(b)fluoranthene      | 22.719 | 252  | 529      | 0.089 | ng    | # 41     |
| 38) Benzo(k)fluoranthene      | 22.760 | 252  | 488      | 0.072 | ng    | # 40     |
| 39) Benzo(a)pyrene            | 23.284 | 252  | 514      | 0.097 | ng    | # 23     |
| 40) Dibenzo(a,h)anthracene    | 25.590 | 278  | 313      | 0.064 | ng    | # 13     |
| 41) Benzo(g,h,i)perylene      | 26.228 | 276  | 608      | 0.101 | ng    | # 64     |

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

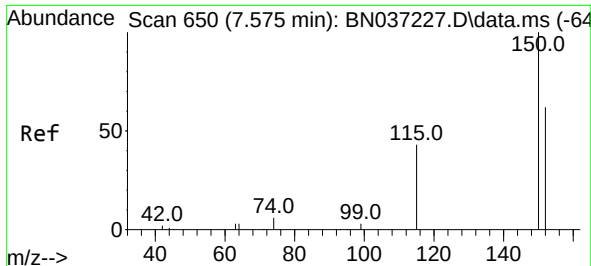
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Data File : BN037225.D  
Acq On : 13 Jun 2025 13:33  
Operator : RC/JU  
Sample : SSTDICC0.1  
Misc :  
ALS Vial : 3 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Quant Time: Jun 13 18:36:23 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:34:15 2025  
Response via : Initial Calibration

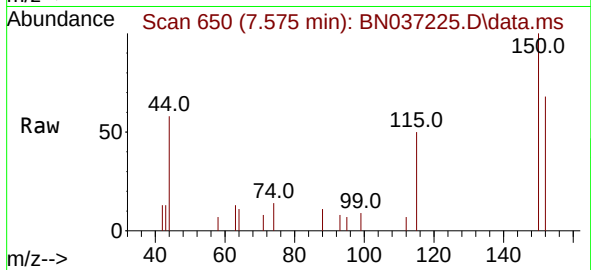




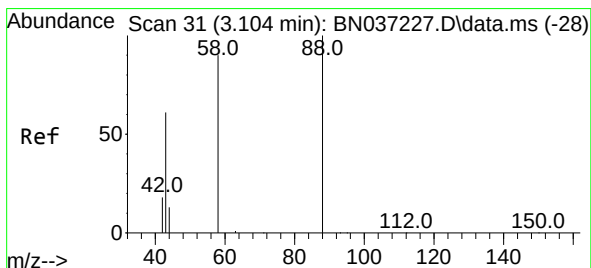
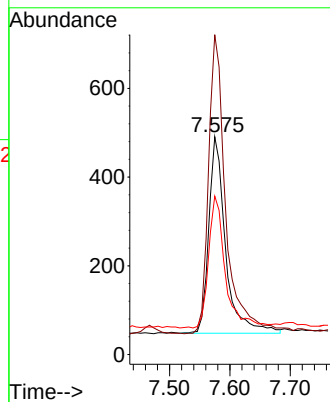
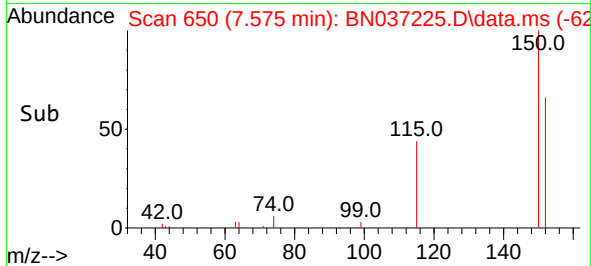


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.575 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN037225.D  
 Acq: 13 Jun 2025 13:33

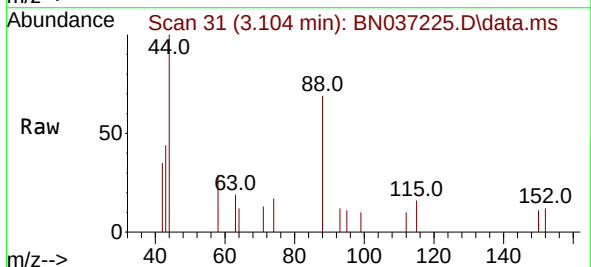
Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1



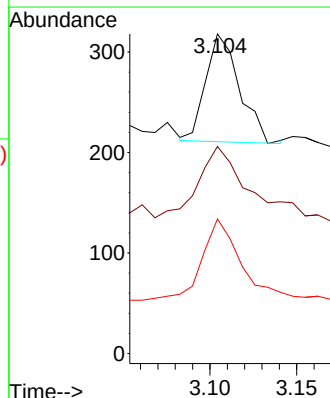
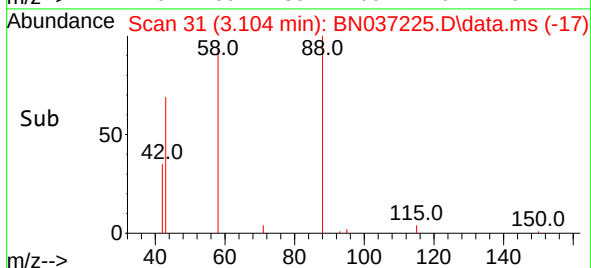
Tgt Ion:152 Resp: 859  
 Ion Ratio Lower Upper  
 152 100  
 150 146.8 125.2 187.8  
 115 72.7 58.4 87.6



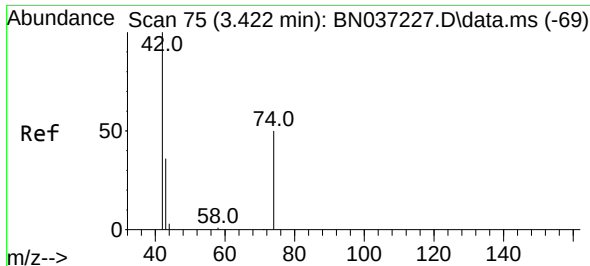
#2  
 1,4-Dioxane  
 Concen: 0.123 ng  
 RT: 3.104 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: BN037225.D  
 Acq: 13 Jun 2025 13:33



Tgt Ion: 88 Resp: 145  
 Ion Ratio Lower Upper  
 88 100  
 43 144.8 52.6 79.0#  
 58 84.8 73.5 110.3



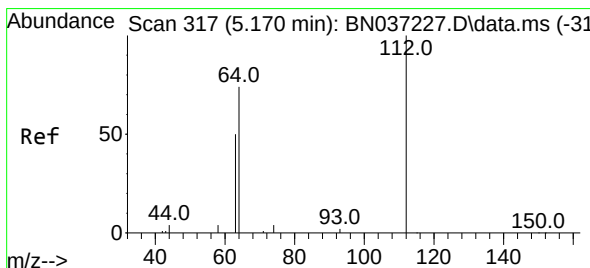
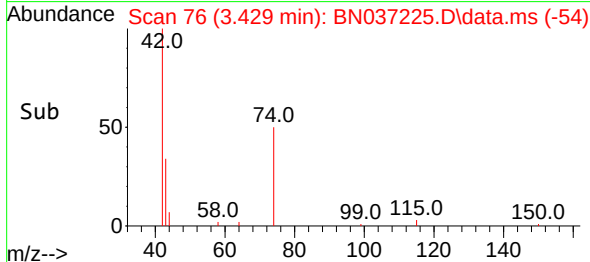
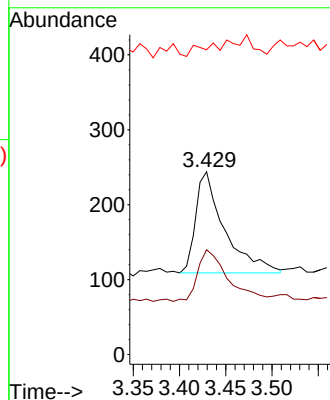
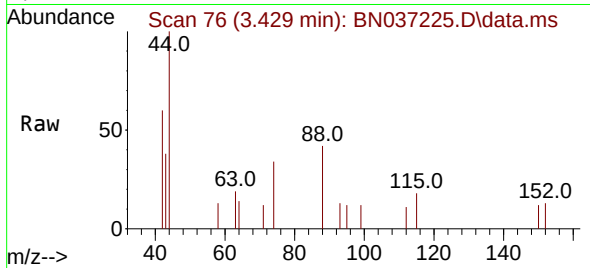




#3  
 n-Nitrosodimethylamine  
 Concen: 0.109 ng  
 RT: 3.429 min Scan# 75  
 Delta R.T. 0.007 min  
 Lab File: BN037225.D  
 Acq: 13 Jun 2025 13:33

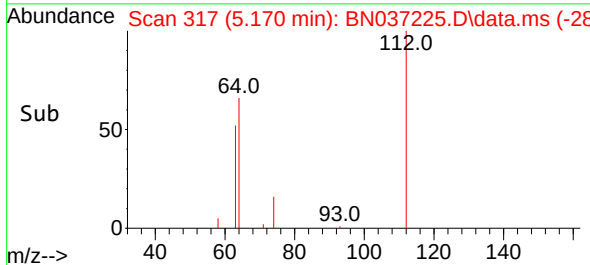
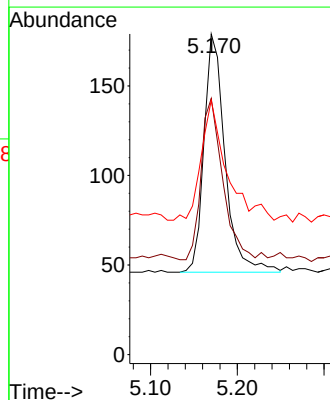
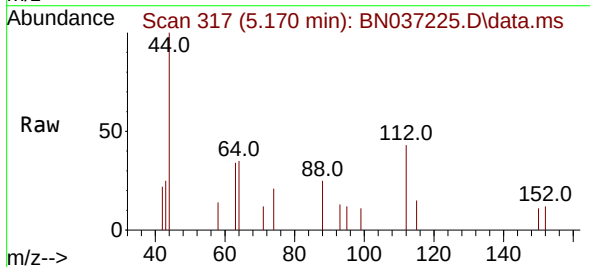
Instrument :  
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 ClientSampleId :  
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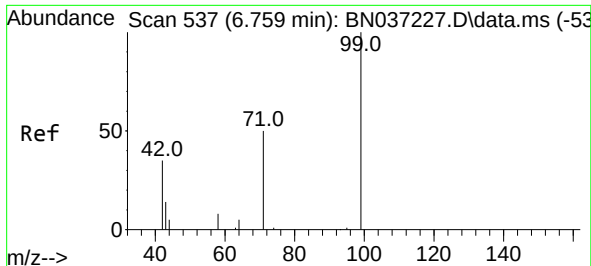
Tgt Ion: 42 Resp: 293  
 Ion Ratio Lower Upper  
 42 100  
 74 53.6 44.6 66.8  
 44 5.5 3.5 5.3#



#4  
 2-Fluorophenol  
 Concen: 0.106 ng  
 RT: 5.170 min Scan# 317  
 Delta R.T. 0.000 min  
 Lab File: BN037225.D  
 Acq: 13 Jun 2025 13:33

Tgt Ion: 112 Resp: 224  
 Ion Ratio Lower Upper  
 112 100  
 64 69.2 57.2 85.8  
 63 65.6 39.8 59.6#

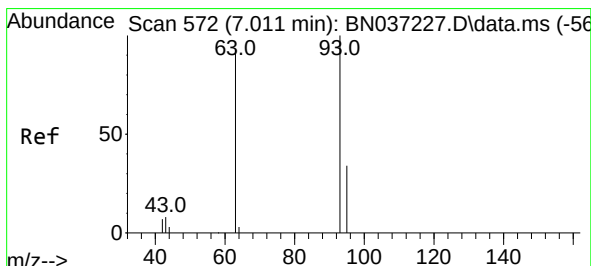
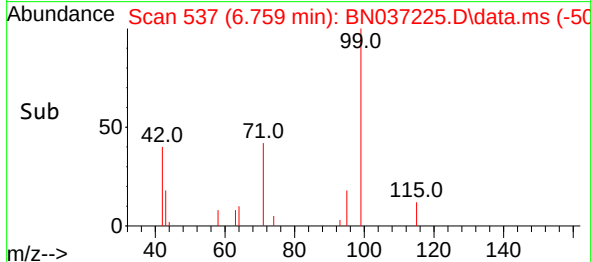
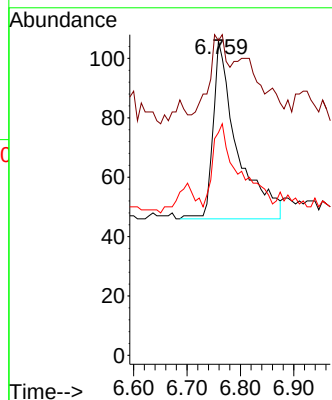
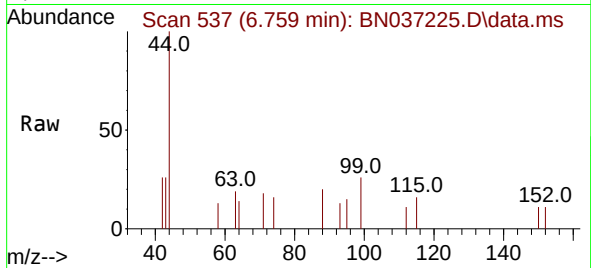




#5  
Phenol-d6  
Concen: 0.085 ng  
RT: 6.759 min Scan# 511  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

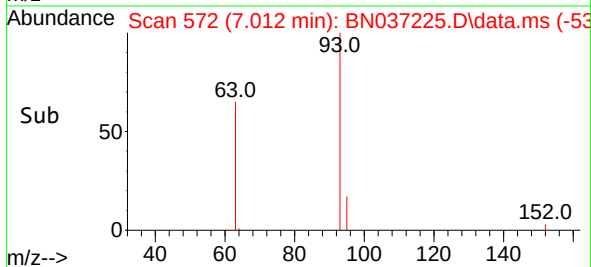
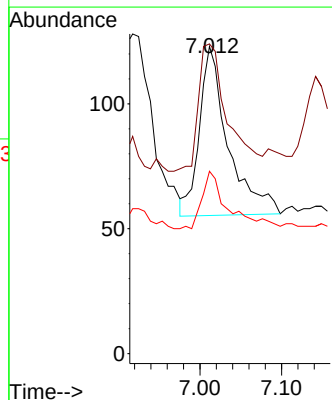
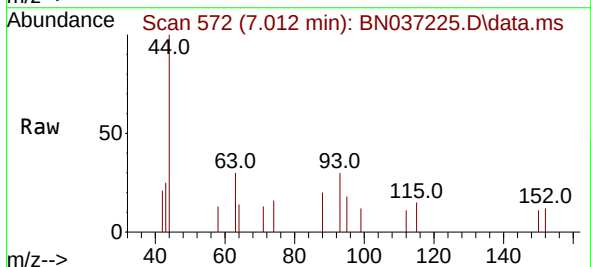
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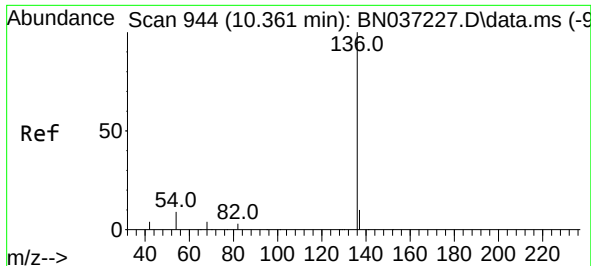
Tgt Ion: 99 Resp: 188  
Ion Ratio Lower Upper  
99 100  
42 33.0 36.2 54.4#  
71 51.1 42.4 63.6



#6  
bis(2-Chloroethyl)ether  
Concen: 0.083 ng  
RT: 7.012 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion: 93 Resp: 165  
Ion Ratio Lower Upper  
93 100  
63 76.4 75.2 112.8  
95 30.9 28.3 42.5

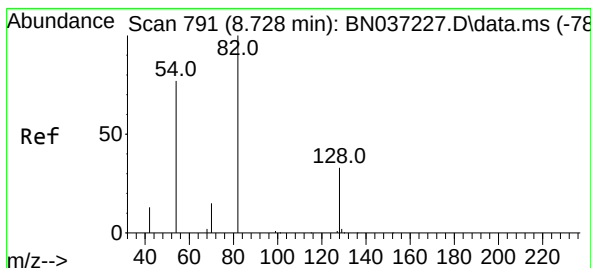
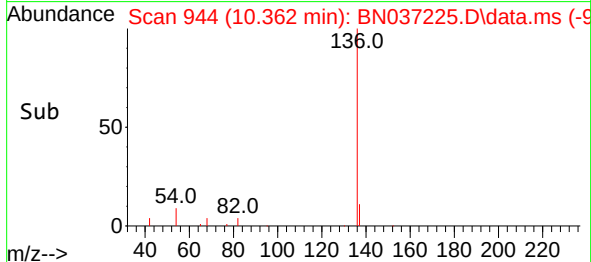
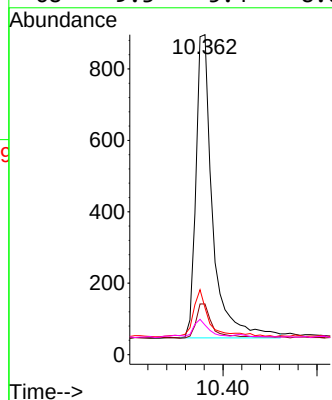
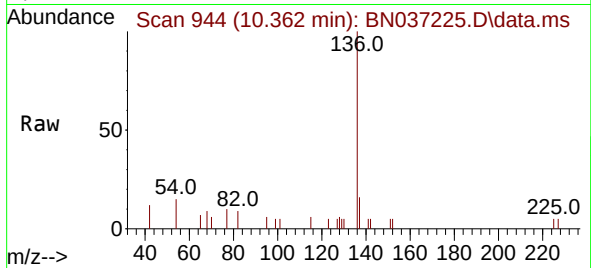




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.362 min Scan# 944  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

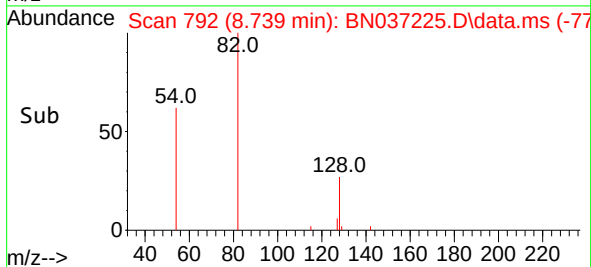
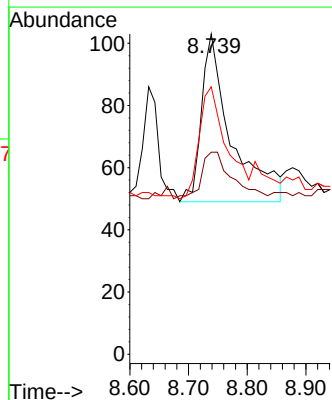
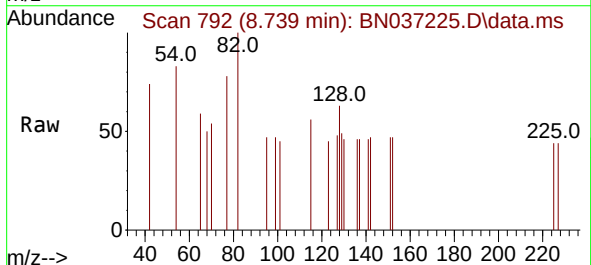
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ClientSampleId :  
SSTDICC0.1

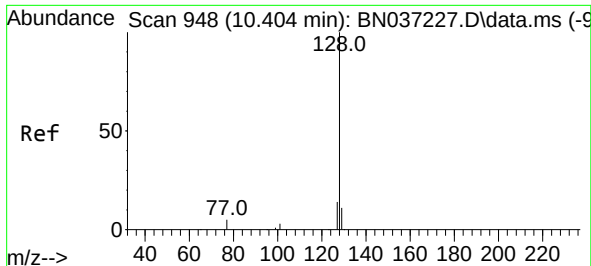
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 2097  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 15.8  | 10.6  | 15.8# |
| 54       | 14.6  | 9.2   | 13.8# |
| 68       | 9.3   | 5.4   | 8.0#  |



#8  
Nitrobenzene-d5  
Concen: 0.093 ng  
RT: 8.739 min Scan# 792  
Delta R.T. 0.011 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 192   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 63.1  | 31.2  | 46.8# |
| 54       | 83.5  | 63.3  | 94.9  |

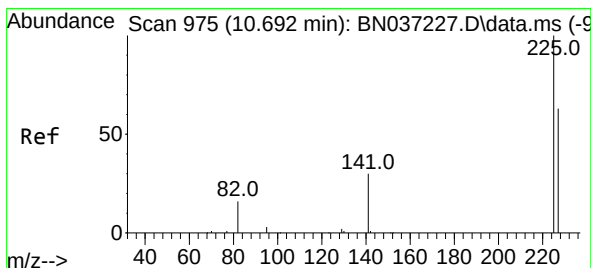
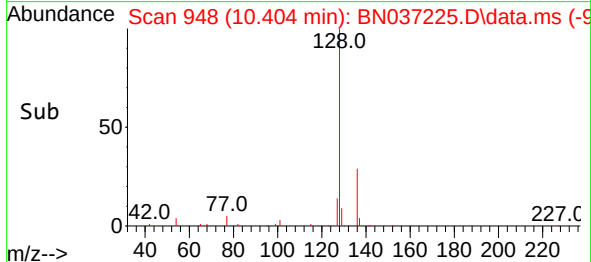
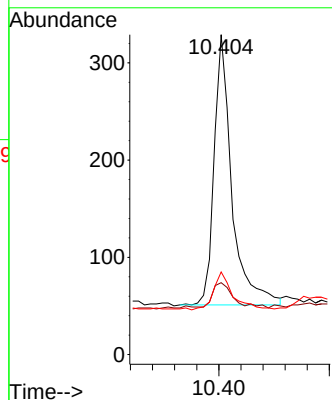
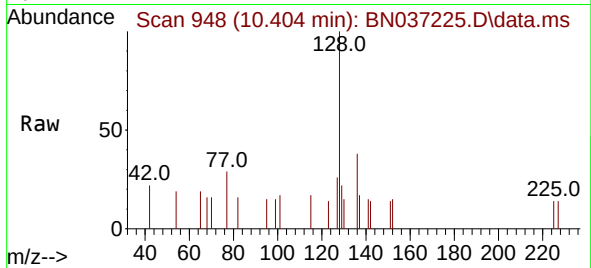




#9  
Naphthalene  
Concen: 0.102 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

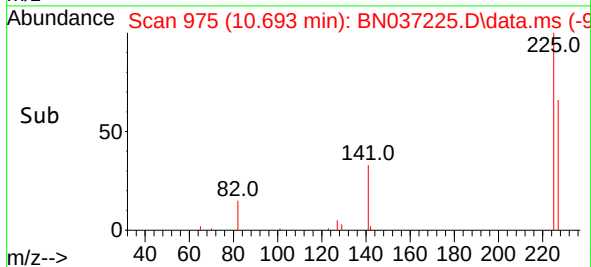
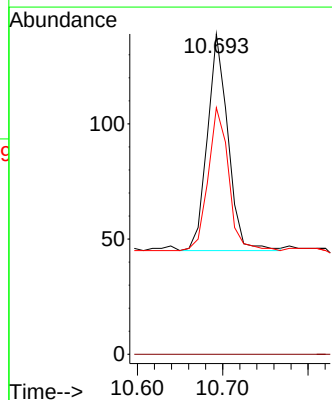
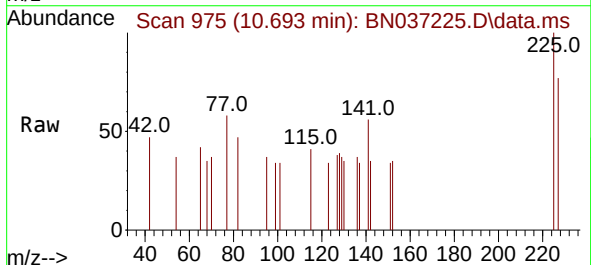
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

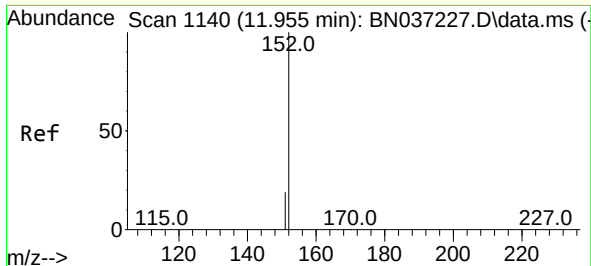
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 128   | Resp: | 622   |
| Ion Ratio | Lower | Upper |       |
| 128       | 100   |       |       |
| 129       | 22.5  | 10.7  | 16.1# |
| 127       | 25.8  | 12.6  | 19.0# |



#10  
Hexachlorobutadiene  
Concen: 0.106 ng  
RT: 10.693 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 225   | Resp: | 157  |
| Ion Ratio | Lower | Upper |      |
| 225       | 100   |       |      |
| 223       | 0.0   | 0.0   | 0.0  |
| 227       | 65.6  | 49.2  | 73.8 |

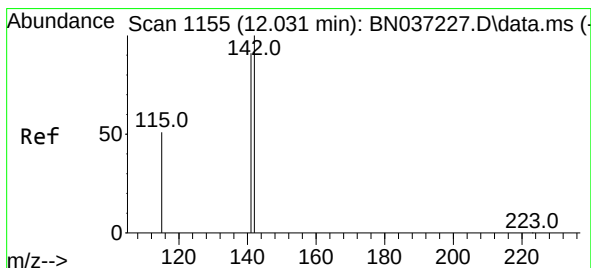
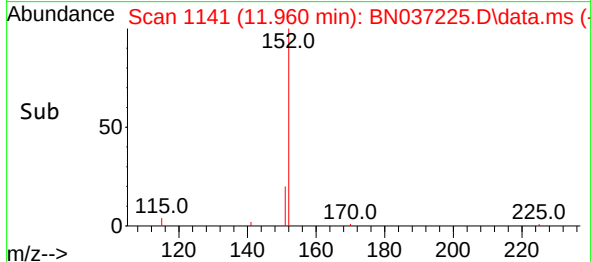
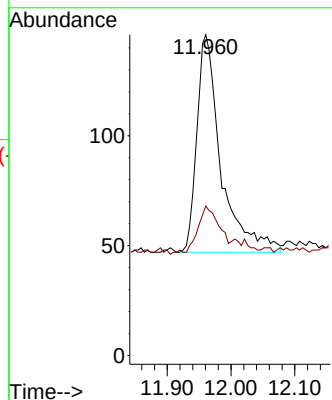
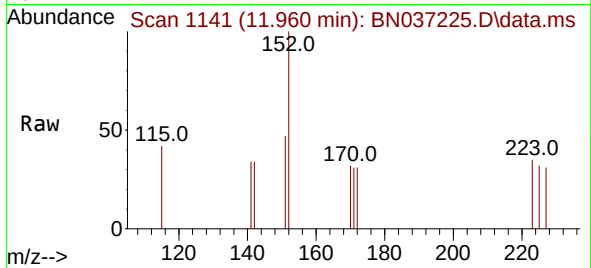




#11  
2-Methylnaphthalene-d10  
Concen: 0.092 ng  
RT: 11.960 min Scan# 1141  
Delta R.T. 0.005 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

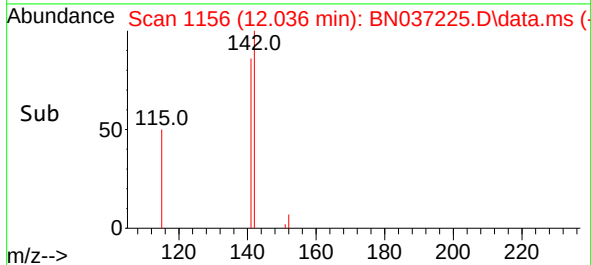
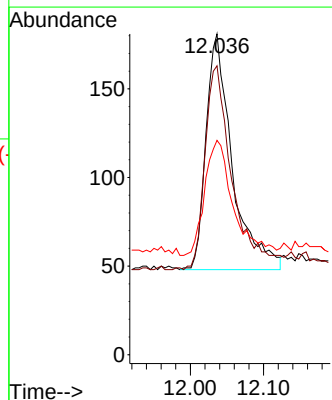
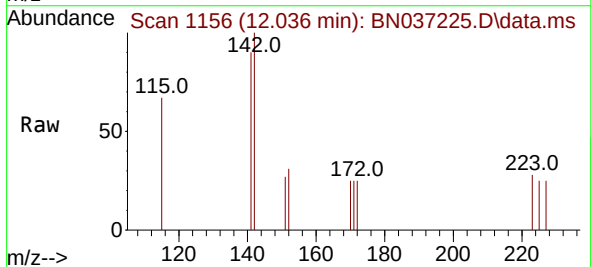
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

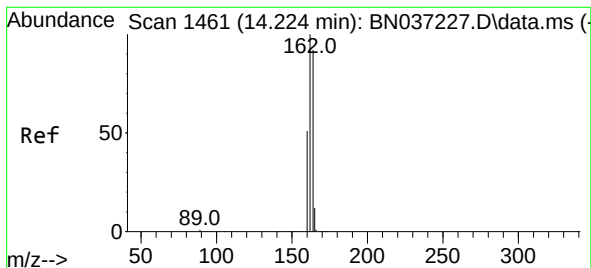
Tgt Ion:152 Resp: 260  
Ion Ratio Lower Upper  
152 100  
151 20.8 17.9 26.9



#12  
2-Methylnaphthalene  
Concen: 0.090 ng  
RT: 12.036 min Scan# 1156  
Delta R.T. 0.005 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:142 Resp: 331  
Ion Ratio Lower Upper  
142 100  
141 90.1 73.0 109.6  
115 66.9 43.3 64.9#





#13

Acenaphthene-d10

Concen: 0.400 ng

RT: 14.224 min Scan# 1461

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

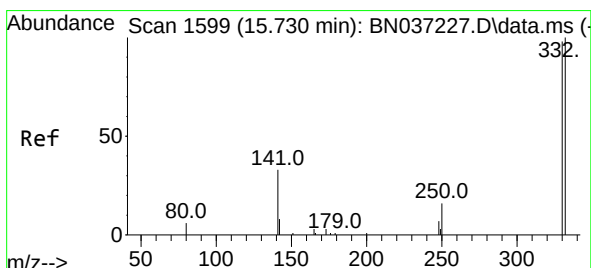
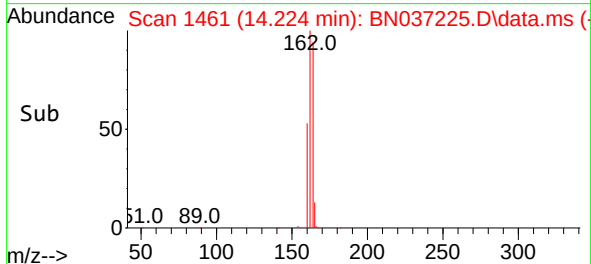
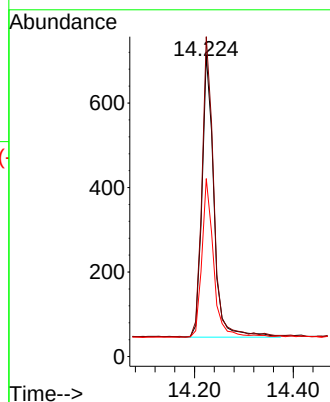
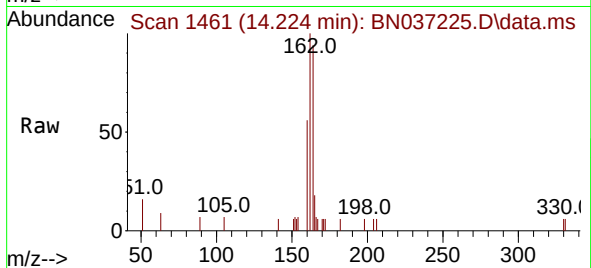
Tgt Ion:164 Resp: 1114

Ion Ratio Lower Upper

164 100

162 106.2 86.7 130.1

160 59.0 45.8 68.6



#14

2,4,6-Tribromophenol

Concen: 0.076 ng

RT: 15.730 min Scan# 1599

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

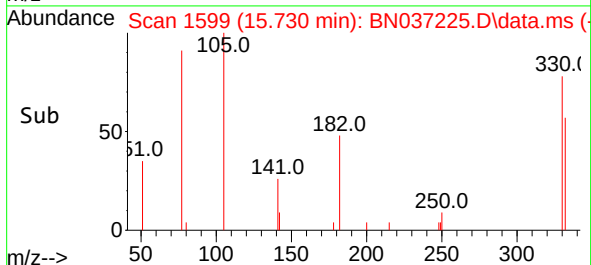
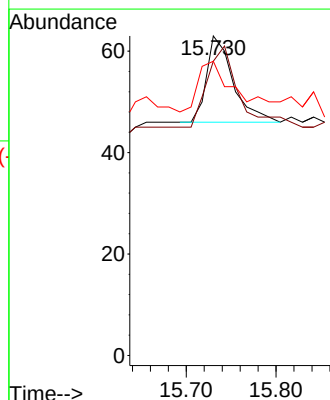
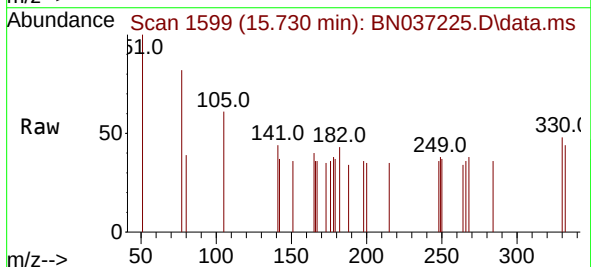
Tgt Ion:330 Resp: 35

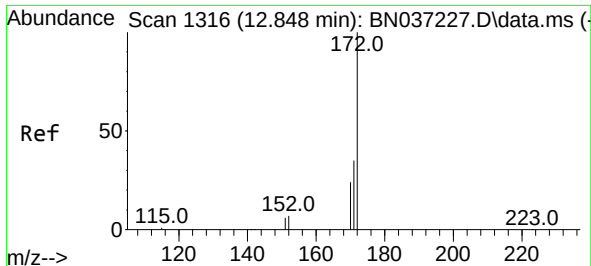
Ion Ratio Lower Upper

330 100

332 111.4 74.9 112.3

141 82.9 45.1 67.7#

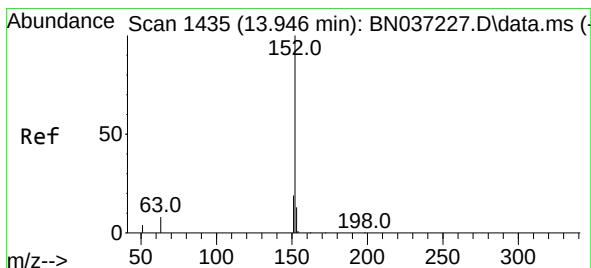
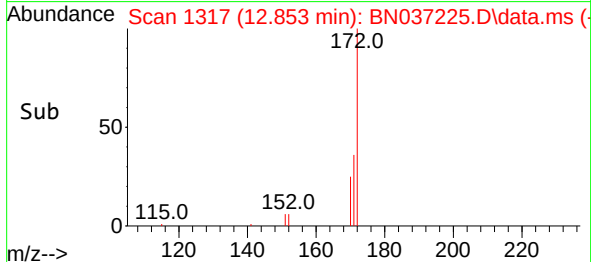
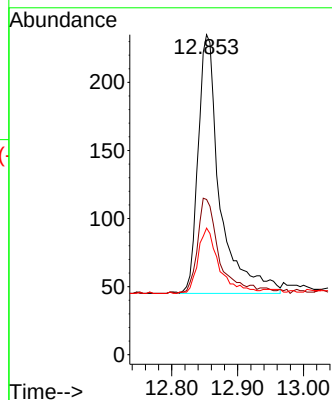
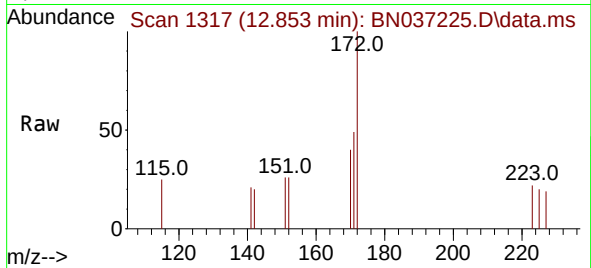




#15  
2-Fluorobiphenyl  
Concen: 0.093 ng  
RT: 12.853 min Scan# 11  
Delta R.T. 0.005 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

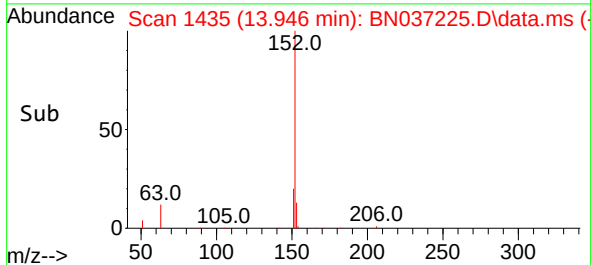
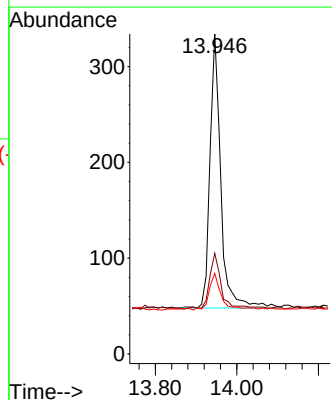
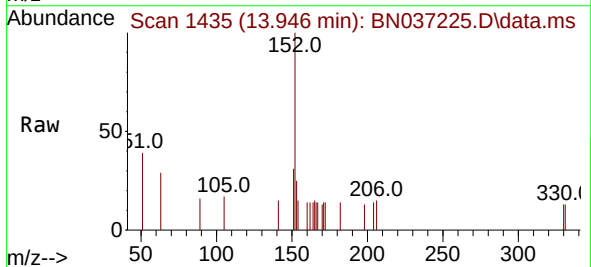
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

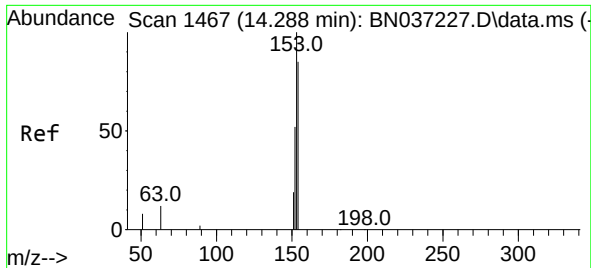
Tgt Ion:172 Resp: 436  
Ion Ratio Lower Upper  
172 100  
171 48.5 29.8 44.8#  
170 39.6 21.1 31.7#



#16  
Acenaphthylene  
Concen: 0.097 ng  
RT: 13.946 min Scan# 1435  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:152 Resp: 531  
Ion Ratio Lower Upper  
152 100  
151 22.4 15.7 23.5  
153 14.9 10.7 16.1

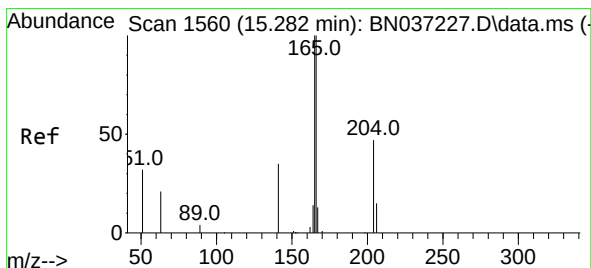
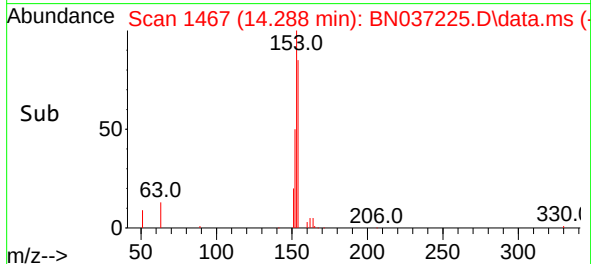
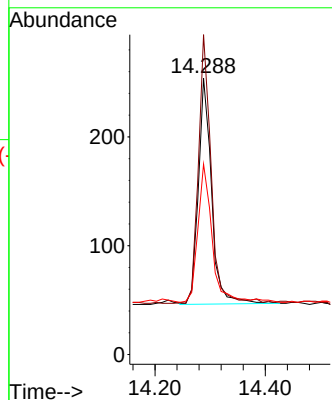
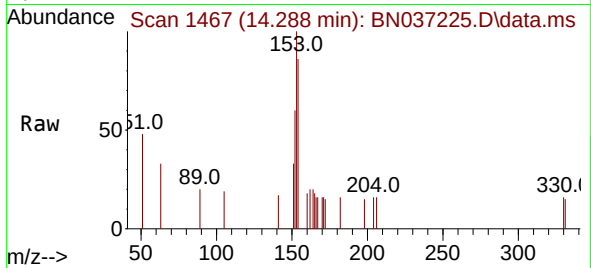




#17  
Acenaphthene  
Concen: 0.098 ng  
RT: 14.288 min Scan# 1467  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

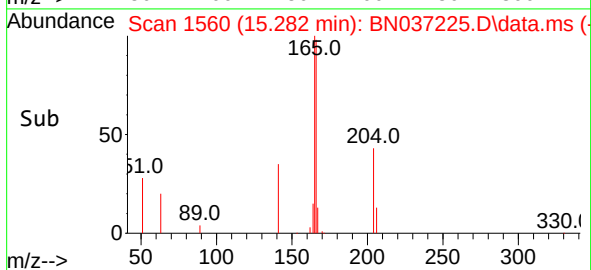
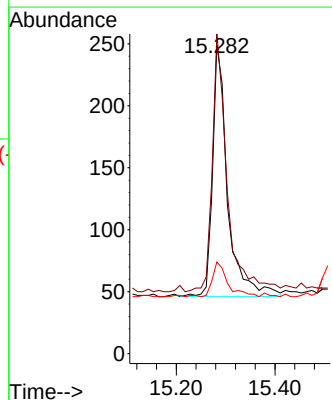
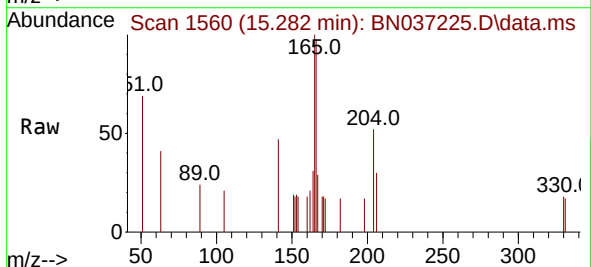
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

Tgt Ion:154 Resp: 346  
Ion Ratio Lower Upper  
154 100  
153 114.5 94.6 141.8  
152 65.9 49.6 74.4

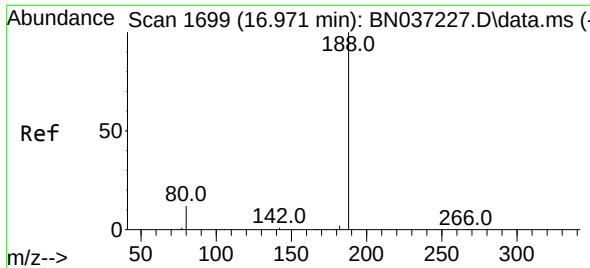


#18  
Fluorene  
Concen: 0.095 ng  
RT: 15.282 min Scan# 1560  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:166 Resp: 430  
Ion Ratio Lower Upper  
166 100  
165 99.3 79.8 119.6  
167 14.0 10.8 16.2



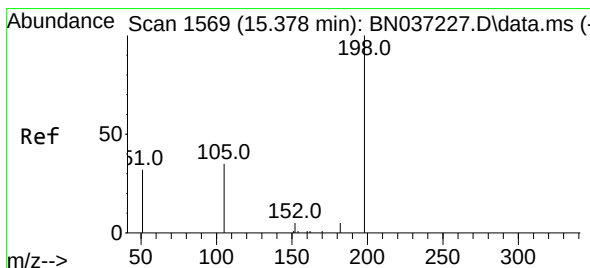
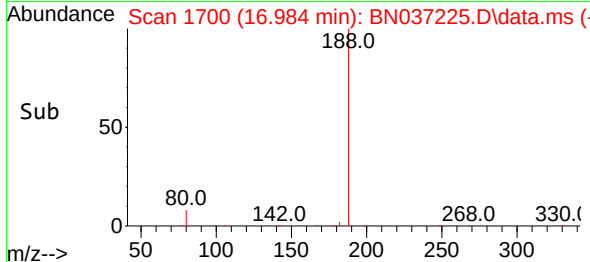
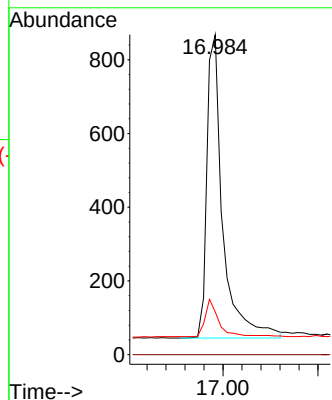
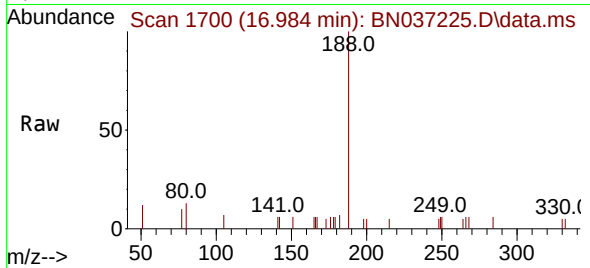




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.984 min Scan# 11  
Delta R.T. 0.013 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

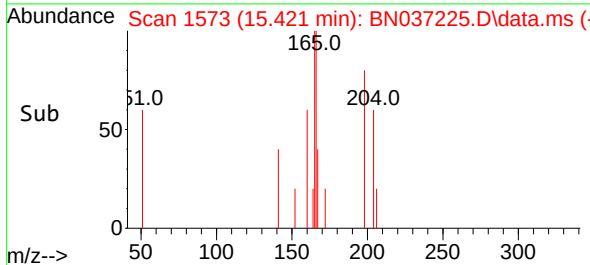
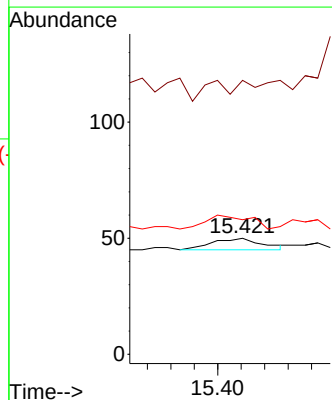
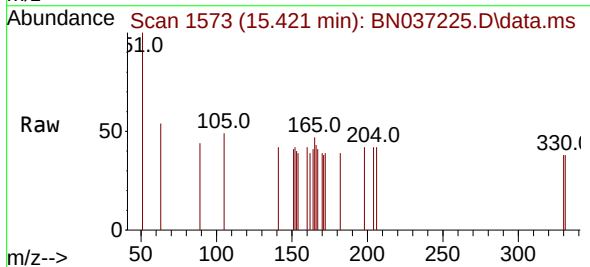
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

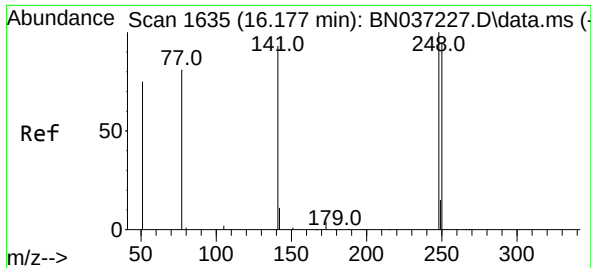
Tgt Ion:188 Resp: 1916  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.4 12.2 18.4



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.146 ng  
RT: 15.421 min Scan# 1573  
Delta R.T. 0.043 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:198 Resp: 15  
Ion Ratio Lower Upper  
198 100  
51 236.0 111.2 166.8#  
105 116.0 54.0 81.0#

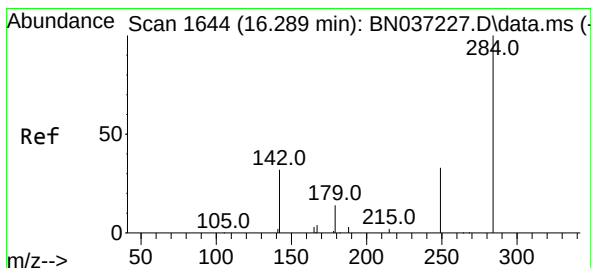
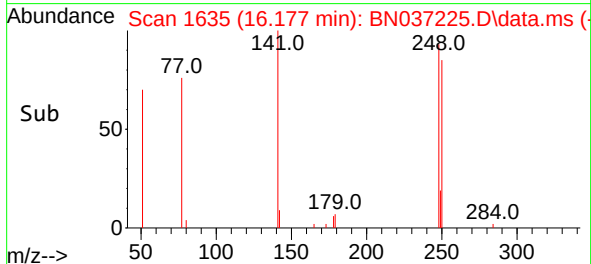
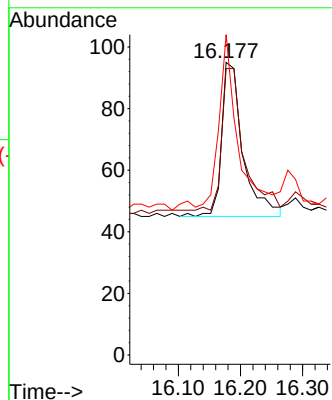
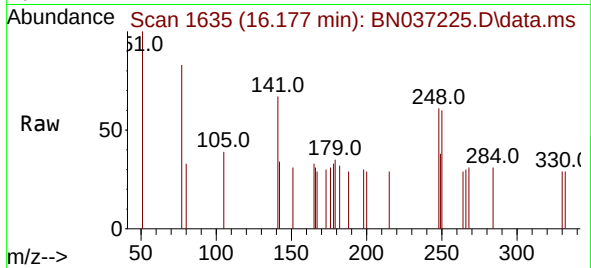




#21  
4-Bromophenyl-phenylether  
Concen: 0.095 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

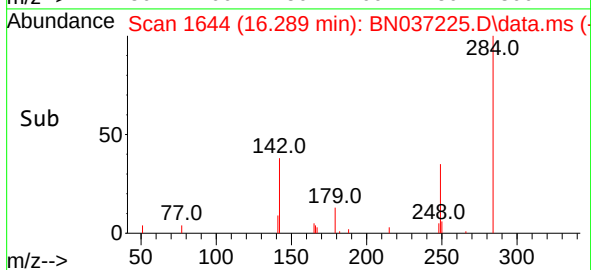
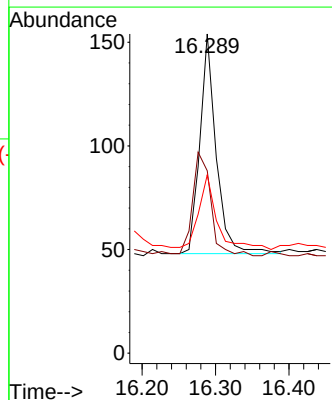
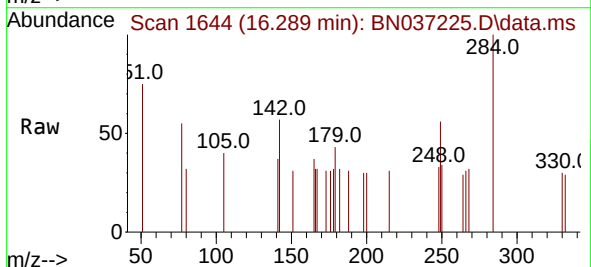
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1

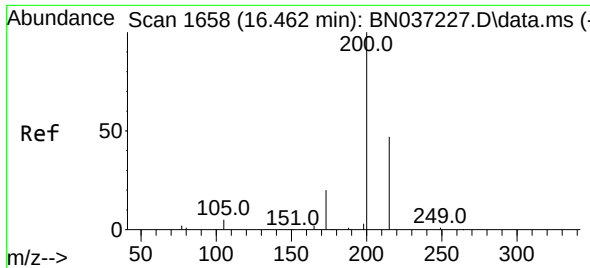
Tgt Ion:248 Resp: 119  
Ion Ratio Lower Upper  
248 100  
250 97.9 76.8 115.2  
141 109.5 75.6 113.4



#22  
Hexachlorobenzene  
Concen: 0.113 ng  
RT: 16.289 min Scan# 1644  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:284 Resp: 164  
Ion Ratio Lower Upper  
284 100  
142 52.4 43.8 65.6  
249 38.4 28.4 42.6

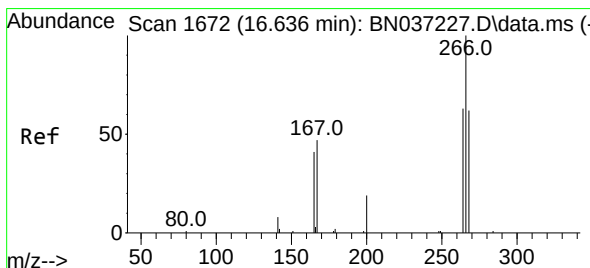
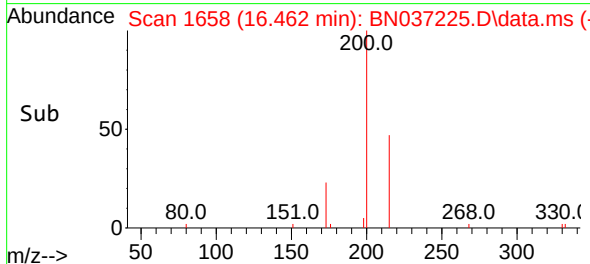
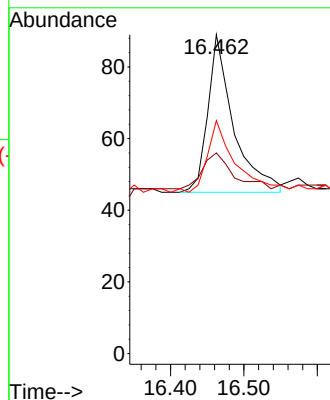
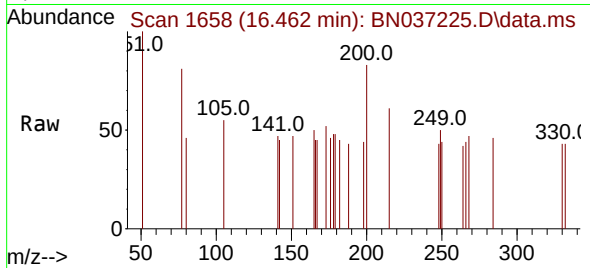




#23  
Atrazine  
Concen: 0.096 ng  
RT: 16.462 min Scan# 1658  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

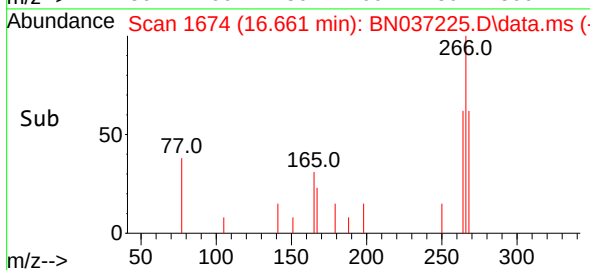
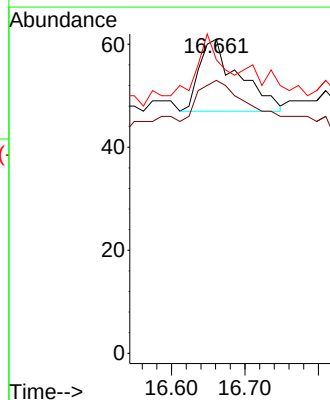
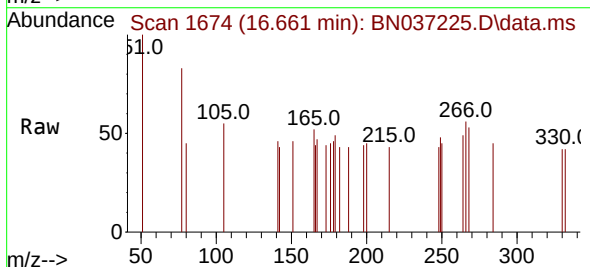
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1

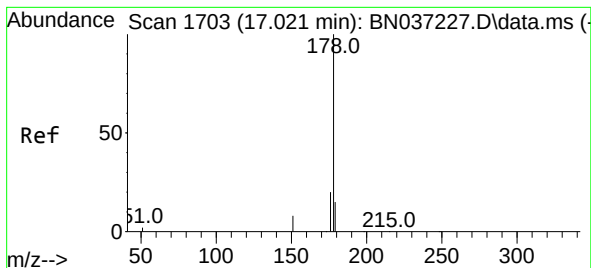
Tgt Ion:200 Resp: 107  
Ion Ratio Lower Upper  
200 100  
173 62.9 25.1 37.7#  
215 73.0 43.7 65.5#



#24  
Pentachlorophenol  
Concen: 0.073 ng  
RT: 16.661 min Scan# 1674  
Delta R.T. 0.025 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:266 Resp: 52  
Ion Ratio Lower Upper  
266 100  
264 73.1 49.2 73.8  
268 82.7 53.4 80.2#





#25

Phenanthrene

Concen: 0.099 ng

RT: 17.021 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

Instrument :

BNA\_N

ClientSampleId :

SSTDICC0.1

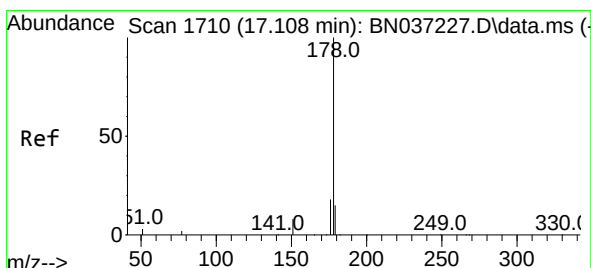
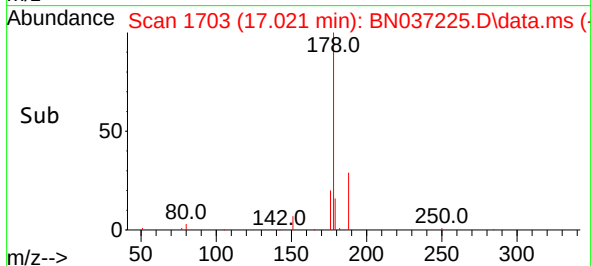
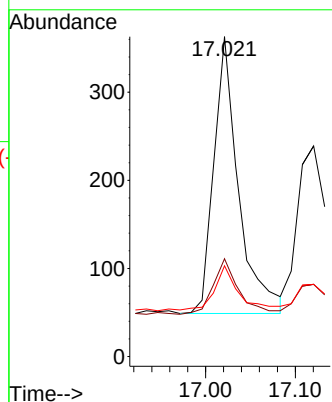
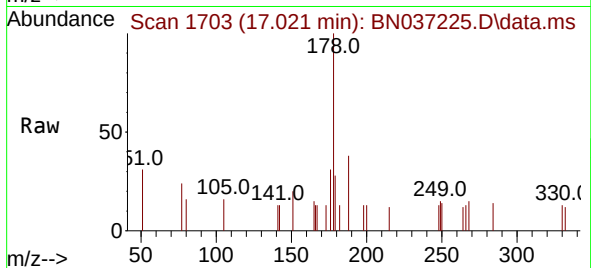
Tgt Ion:178 Resp: 600

Ion Ratio Lower Upper

178 100

176 20.3 16.3 24.5

179 15.8 12.6 18.8



#26

Anthracene

Concen: 0.094 ng

RT: 17.120 min Scan# 1711

Delta R.T. 0.013 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

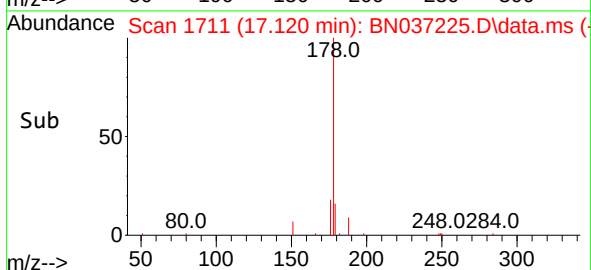
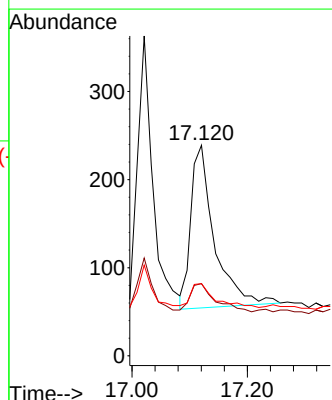
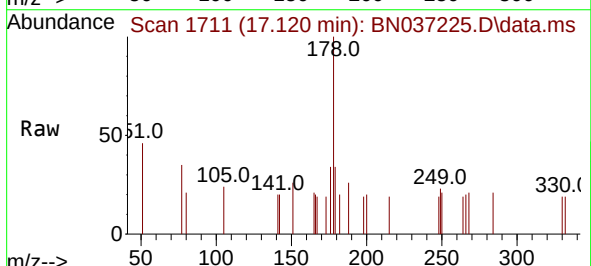
Tgt Ion:178 Resp: 524

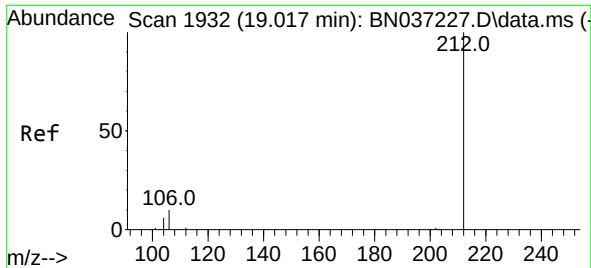
Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 15.1 12.4 18.6

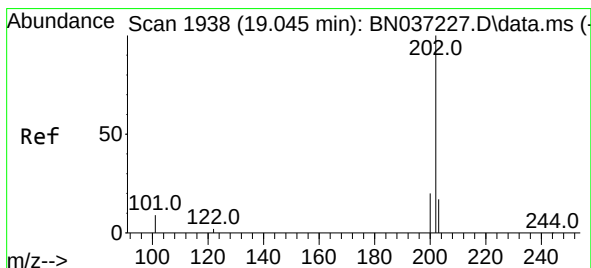
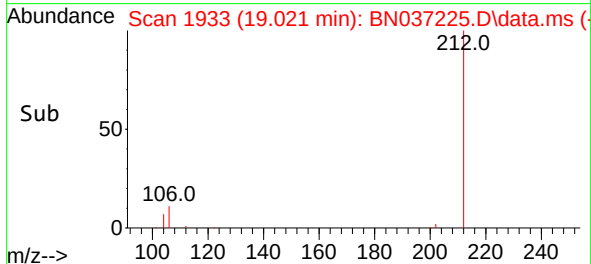
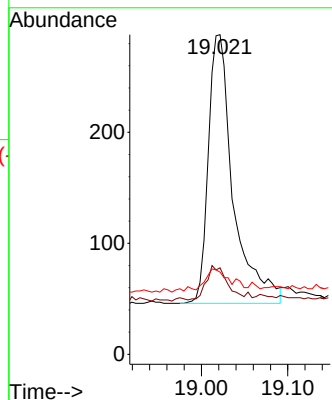
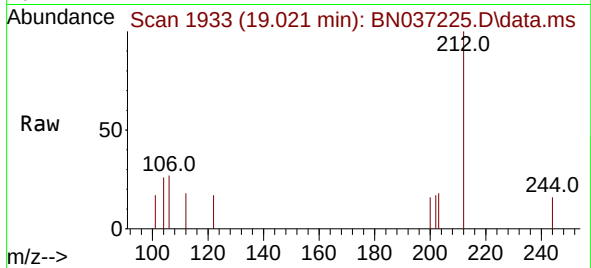




#27  
Fluoranthene-d10  
Concen: 0.097 ng  
RT: 19.021 min Scan# 1933  
Delta R.T. 0.005 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

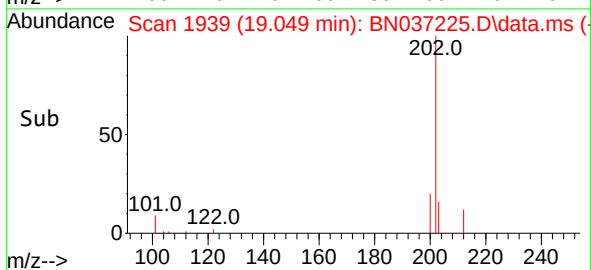
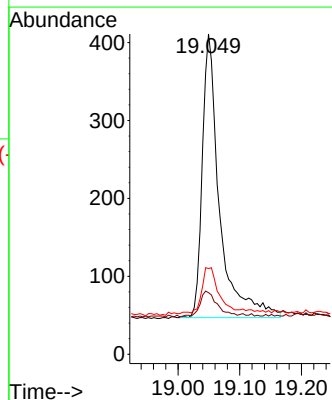
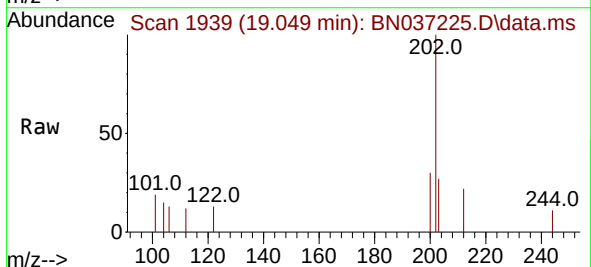
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

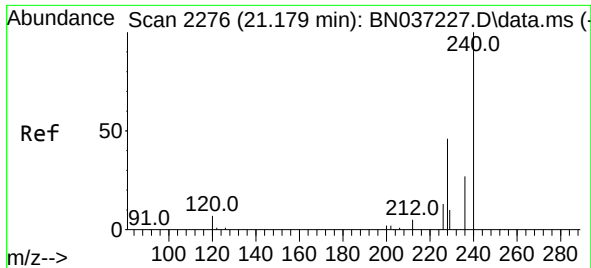
Tgt Ion:212 Resp: 486  
Ion Ratio Lower Upper  
212 100  
106 10.5 9.3 13.9  
104 9.7 5.7 8.5#



#28  
Fluoranthene  
Concen: 0.099 ng  
RT: 19.049 min Scan# 1939  
Delta R.T. 0.005 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:202 Resp: 704  
Ion Ratio Lower Upper  
202 100  
101 9.1 7.1 10.7  
203 15.9 13.0 19.6

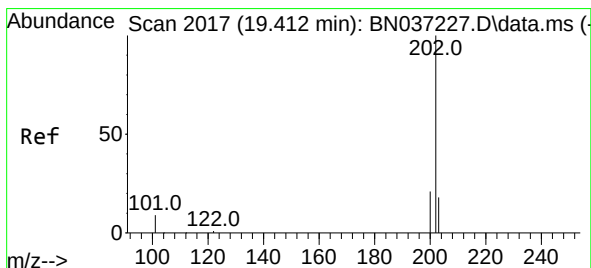
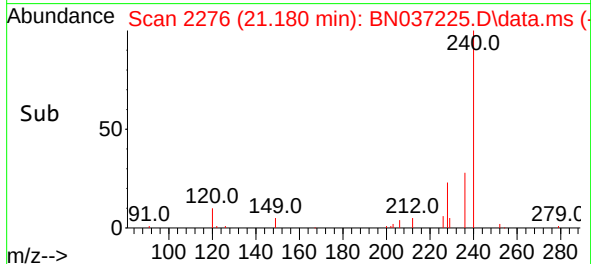
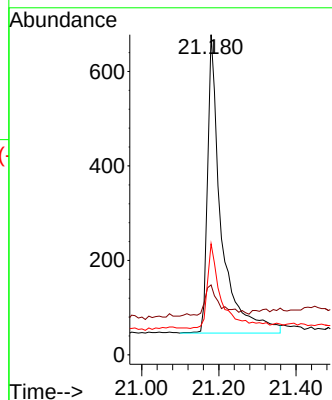
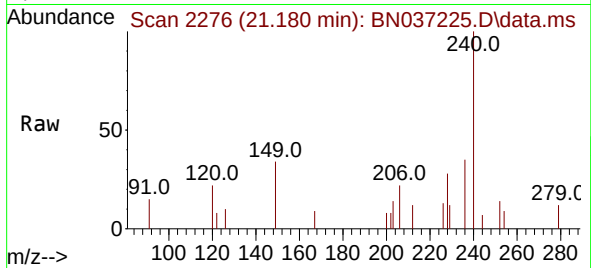




#29  
Chrysene-d12  
Concen: 0.400 ng  
RT: 21.180 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

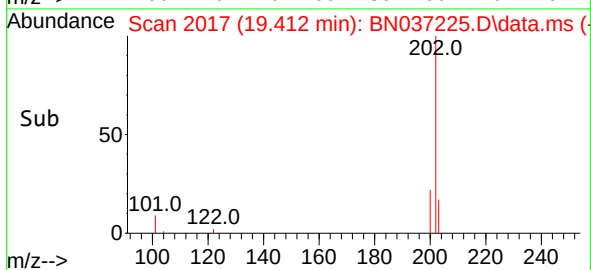
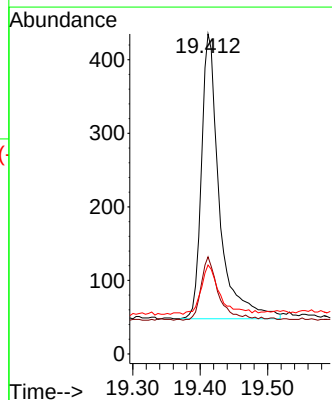
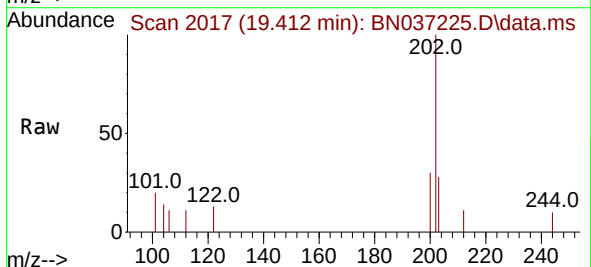
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDICC0.1

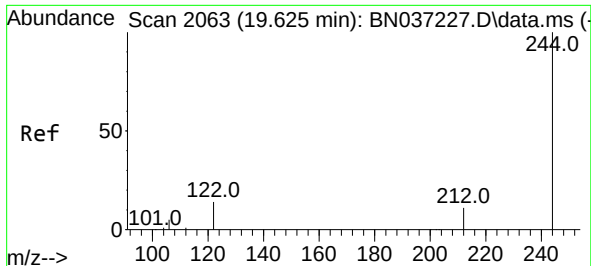
Tgt Ion:240 Resp: 1546  
Ion Ratio Lower Upper  
240 100  
120 21.8 11.3 16.9#  
236 34.7 24.4 36.6



#30  
Pyrene  
Concen: 0.098 ng  
RT: 19.412 min Scan# 2017  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

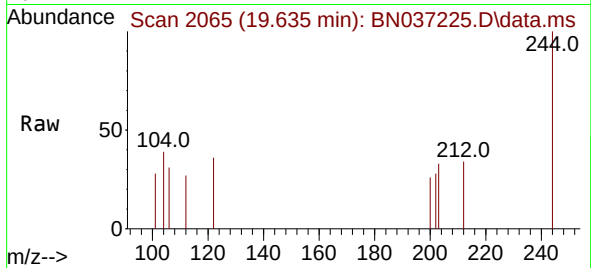
Tgt Ion:202 Resp: 715  
Ion Ratio Lower Upper  
202 100  
200 21.8 17.2 25.8  
203 18.0 14.3 21.5



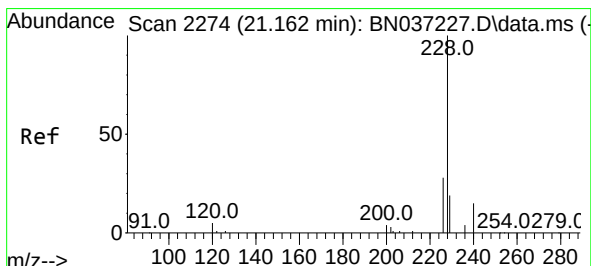
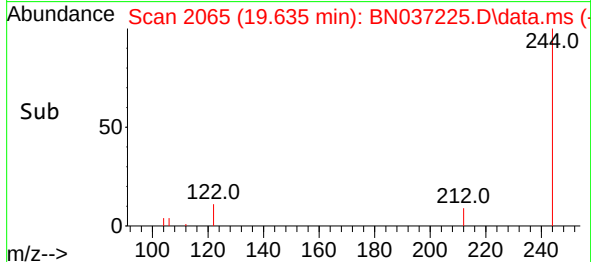
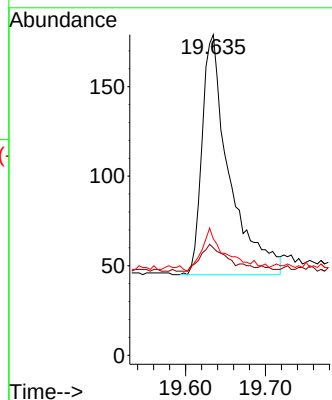


#31  
 Terphenyl-d14  
 Concen: 0.090 ng  
 RT: 19.635 min Scan# 2065  
 Delta R.T. 0.009 min  
 Lab File: BN037225.D  
 Acq: 13 Jun 2025 13:33

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

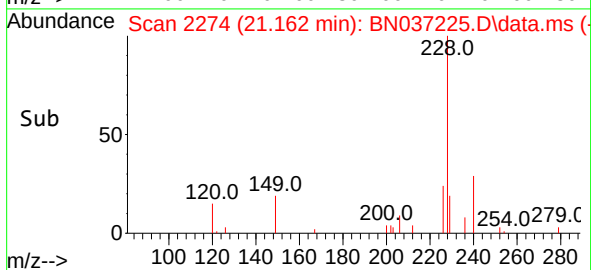
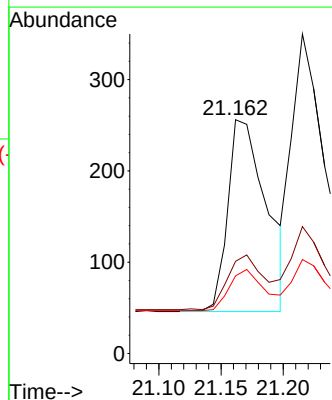
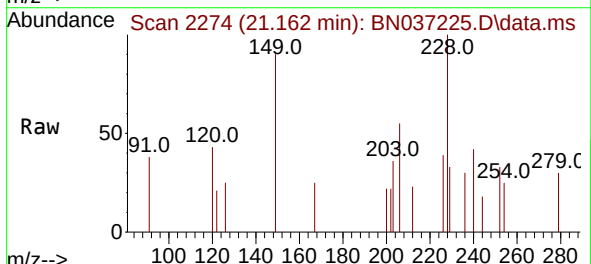


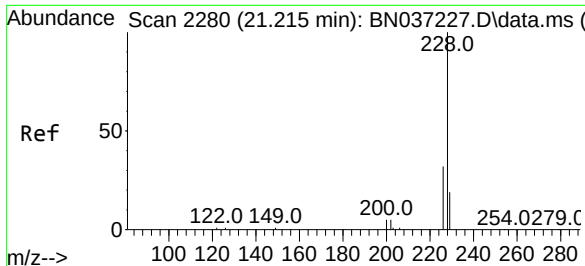
Tgt Ion:244 Resp: 315  
 Ion Ratio Lower Upper  
 244 100  
 212 33.5 12.2 18.2#  
 122 36.3 14.3 21.5#



#32  
 Benzo(a)anthracene  
 Concen: 0.087 ng  
 RT: 21.162 min Scan# 2274  
 Delta R.T. 0.000 min  
 Lab File: BN037225.D  
 Acq: 13 Jun 2025 13:33

Tgt Ion:228 Resp: 454  
 Ion Ratio Lower Upper  
 228 100  
 226 39.5 23.8 35.8#  
 229 33.2 17.0 25.4#

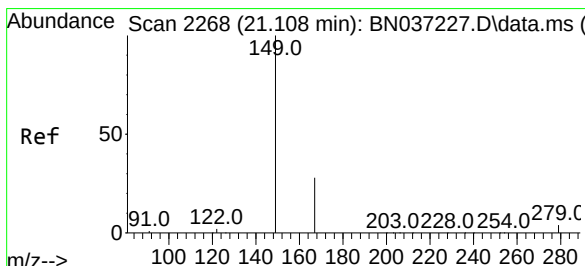
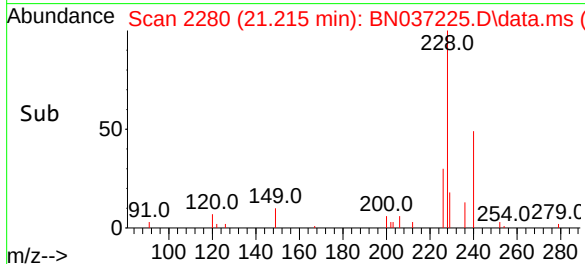
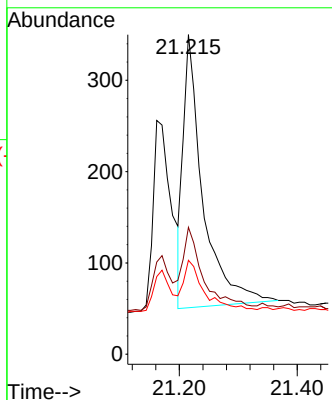
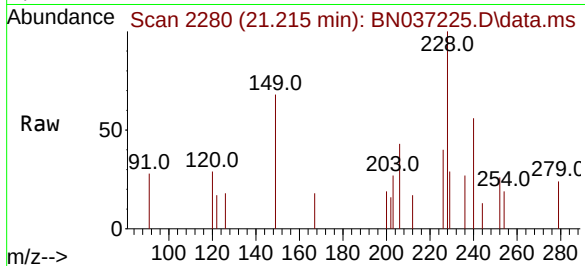




#33  
Chrysene  
Concen: 0.106 ng  
RT: 21.215 min Scan# 21  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

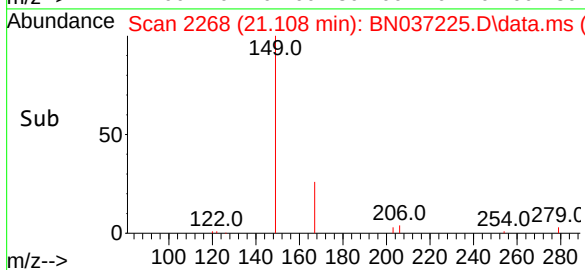
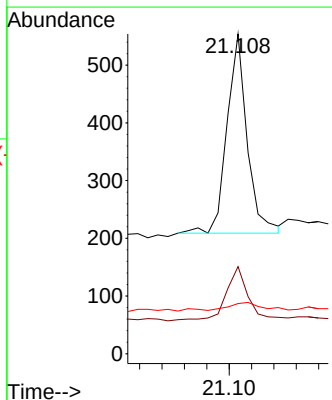
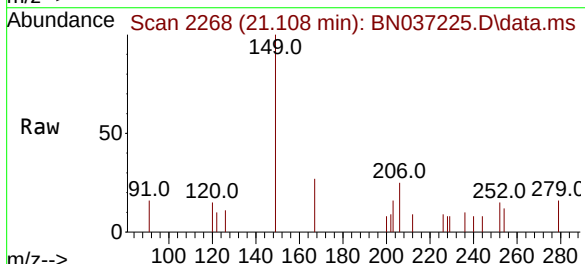
Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1

Tgt Ion:228 Resp: 689  
Ion Ratio Lower Upper  
228 100  
226 39.7 25.8 38.6#  
229 29.4 17.0 25.4#

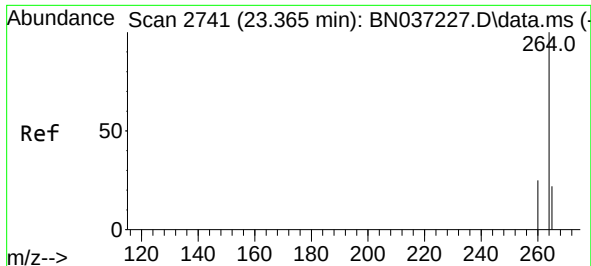


#34  
Bis(2-ethylhexyl)phthalate  
Concen: 0.111 ng  
RT: 21.108 min Scan# 2268  
Delta R.T. 0.000 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:149 Resp: 432  
Ion Ratio Lower Upper  
149 100  
167 27.8 21.3 31.9  
279 8.3 3.3 4.9#

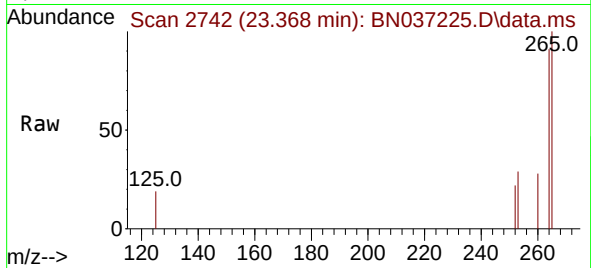




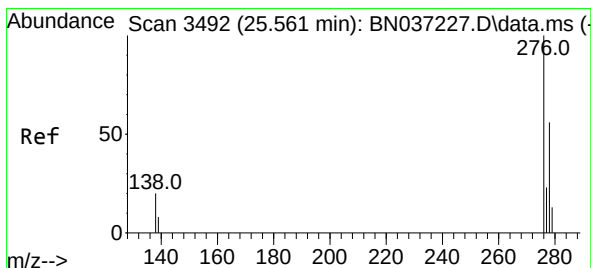
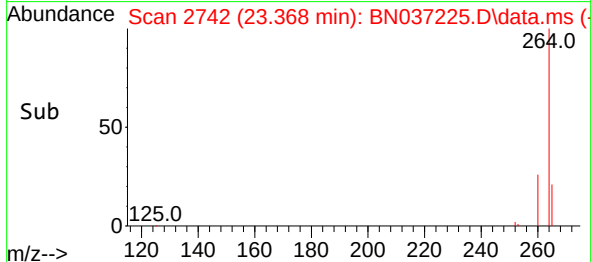
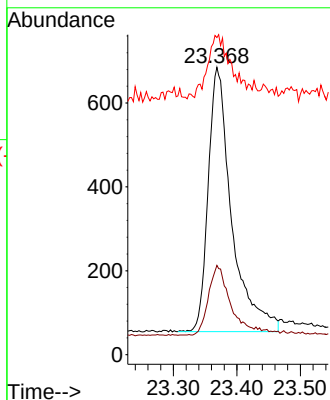


#35  
 Perylene-d12  
 Concen: 0.400 ng  
 RT: 23.368 min Scan# 21  
 Delta R.T. 0.003 min  
 Lab File: BN037225.D  
 Acq: 13 Jun 2025 13:33

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1

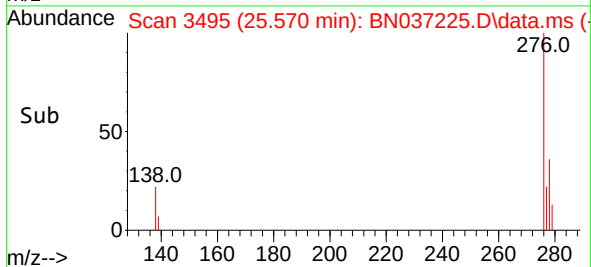
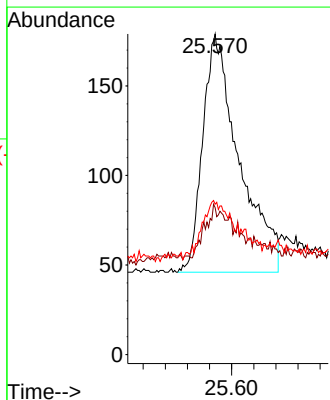
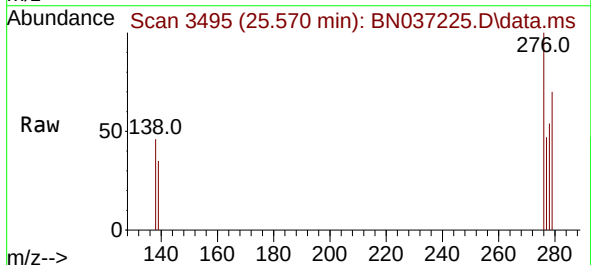


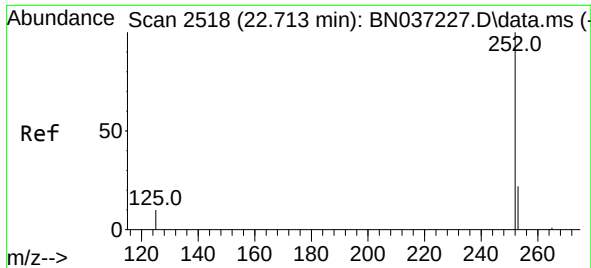
Tgt Ion:264 Resp: 1617  
 Ion Ratio Lower Upper  
 264 100  
 260 31.1 22.8 34.2  
 265 110.4 66.4 99.6#



#36  
 Indeno(1,2,3-cd)pyrene  
 Concen: 0.093 ng  
 RT: 25.570 min Scan# 3495  
 Delta R.T. 0.009 min  
 Lab File: BN037225.D  
 Acq: 13 Jun 2025 13:33

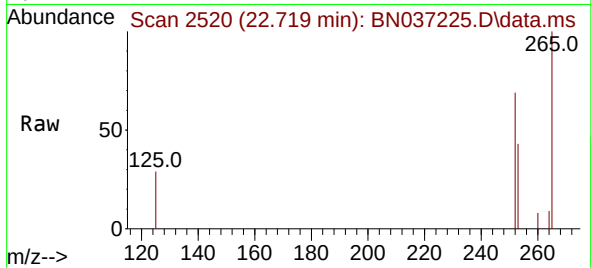
Tgt Ion:276 Resp: 609  
 Ion Ratio Lower Upper  
 276 100  
 138 1.3 16.8 25.2#  
 277 18.6 19.5 29.3#



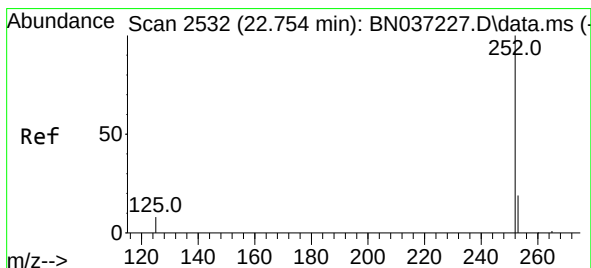
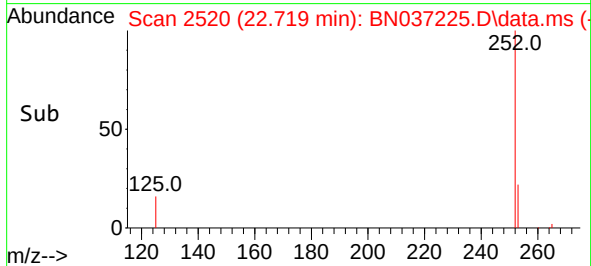
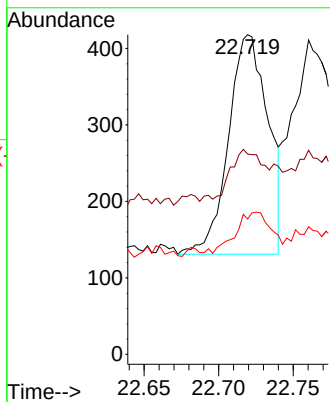


#37  
Benzo(b)fluoranthene  
Concen: 0.089 ng  
RT: 22.719 min Scan# 2520  
Delta R.T. 0.006 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Instrument :  
BNA\_N  
ClientSampleId :  
SSTDIC0.1

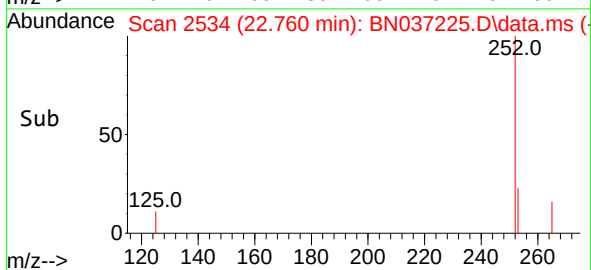
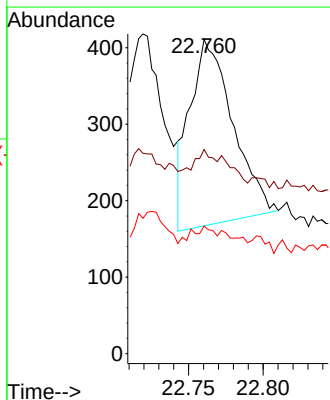
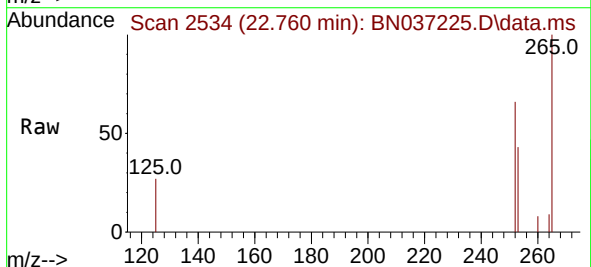


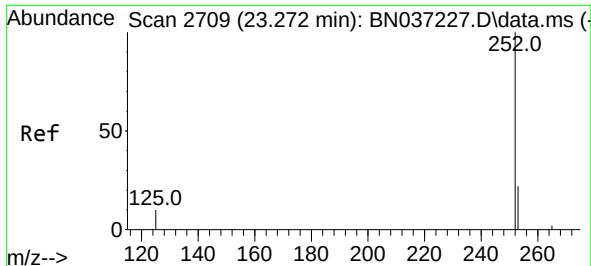
Tgt Ion:252 Resp: 529  
Ion Ratio Lower Upper  
252 100  
253 62.7 24.9 37.3#  
125 42.3 12.9 19.3#



#38  
Benzo(k)fluoranthene  
Concen: 0.072 ng  
RT: 22.760 min Scan# 2534  
Delta R.T. 0.006 min  
Lab File: BN037225.D  
Acq: 13 Jun 2025 13:33

Tgt Ion:252 Resp: 488  
Ion Ratio Lower Upper  
252 100  
253 65.0 24.6 37.0#  
125 40.6 13.4 20.2#





#39

Benzo(a)pyrene

Concen: 0.097 ng

RT: 23.284 min Scan# 21

Delta R.T. 0.012 min

Lab File: BN037225.D

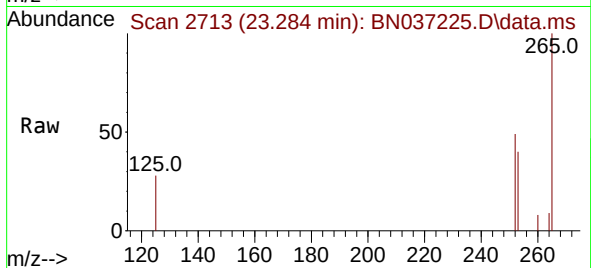
Acq: 13 Jun 2025 13:33

Instrument :

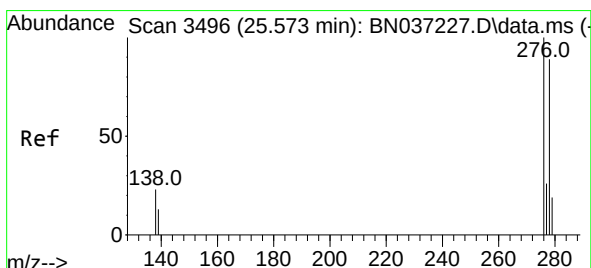
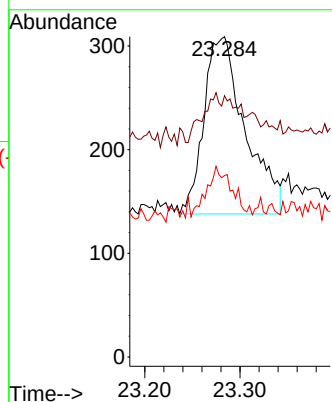
BNA\_N

ClientSampleId :

SSTDICC0.1



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 252   | Resp: | 514   |
| Ion      | Ratio | Lower | Upper |
| 252      | 100   |       |       |
| 253      | 81.6  | 29.4  | 44.2# |
| 125      | 56.6  | 16.2  | 24.2# |



#40

Dibenzo(a,h)anthracene

Concen: 0.064 ng

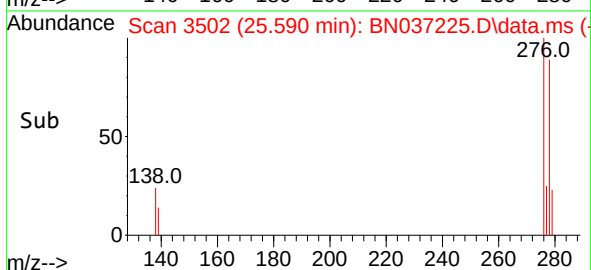
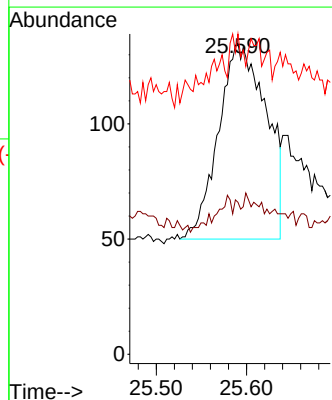
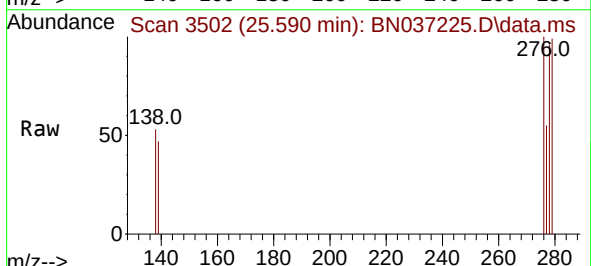
RT: 25.590 min Scan# 3502

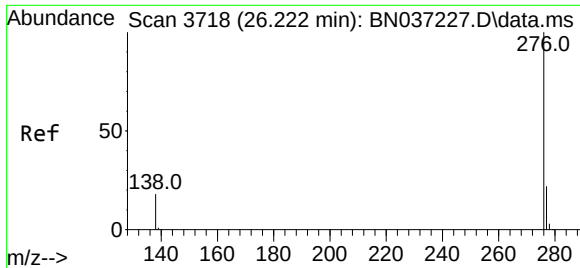
Delta R.T. 0.018 min

Lab File: BN037225.D

Acq: 13 Jun 2025 13:33

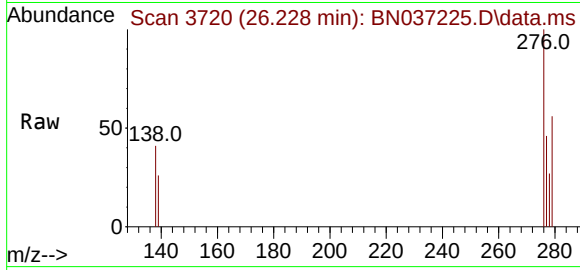
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 278   | Resp: | 313   |
| Ion      | Ratio | Lower | Upper |
| 278      | 100   |       |       |
| 139      | 48.9  | 17.8  | 26.6# |
| 279      | 103.0 | 31.3  | 46.9# |



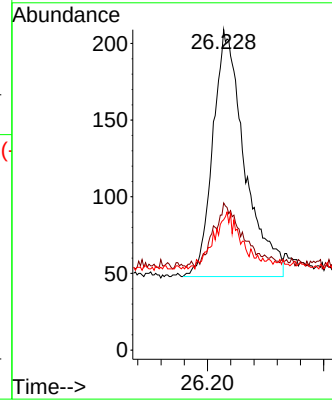
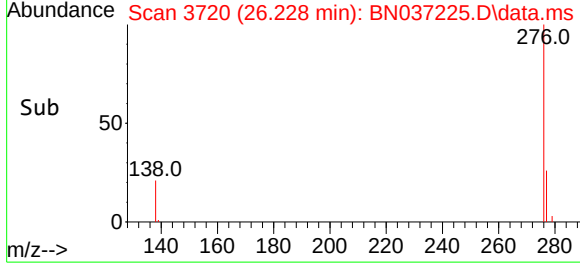


#41  
 Benzo(g,h,i)perylene  
 Concen: 0.101 ng  
 RT: 26.228 min Scan# 31  
 Delta R.T. 0.006 min  
 Lab File: BN037225.D  
 Acq: 13 Jun 2025 13:33

Instrument :  
 BNA\_N  
 ClientSampleId :  
 SSTDICC0.1



Tgt Ion: 276 Resp: 608  
 Ion Ratio Lower Upper  
 276 100  
 277 45.9 22.0 33.0#  
 138 40.7 18.4 27.6#



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037280.D  
 Acq On : 15 Jun 2025 02:42  
 Operator : RC/JU  
 Sample : PB168476BS  
 Misc :  
 ALS Vial : 59 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168476BS

Quant Time: Jun 16 02:47:13 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:43:34 2025  
 Response via : Initial Calibration

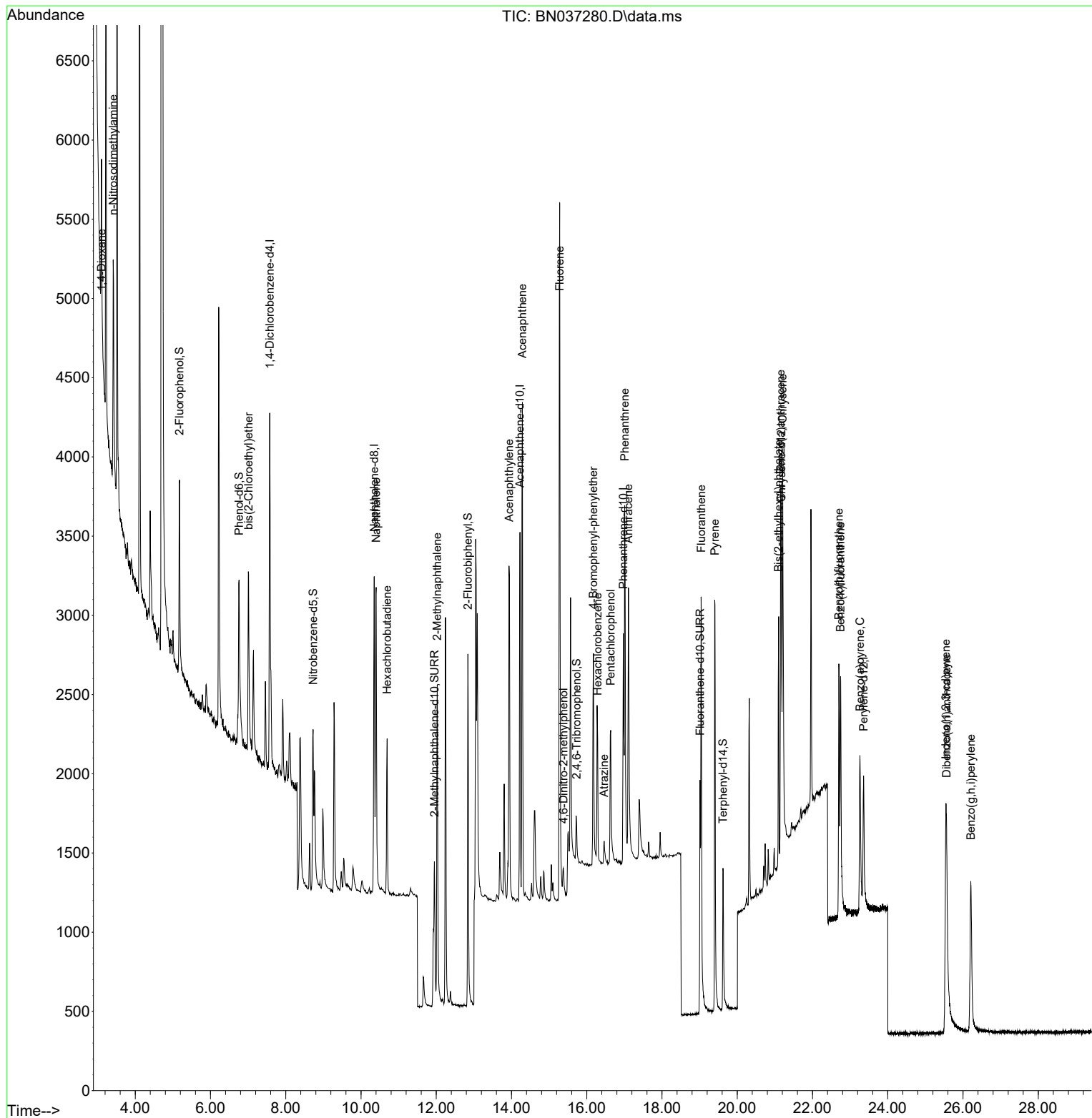
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1101     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.351 | 136  | 2637     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.224 | 164  | 1350     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.971 | 188  | 2251     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.171 | 240  | 1528     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.357 | 264  | 1224     | 0.400 | ng    | # 0.00   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.177  | 112  | 961      | 0.355 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.759  | 99   | 1013     | 0.355 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.728  | 82   | 979      | 0.376 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.950 | 152  | 2371     | 0.670 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 198      | 0.353 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.843 | 172  | 2195     | 0.387 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.012 | 212  | 1999     | 0.339 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.621 | 244  | 1313     | 0.380 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.104  | 88   | 447      | 0.296 | ng    | # 1      |
| 3) n-Nitrosodimethylamine     | 3.415  | 42   | 1294     | 0.376 | ng    | # 99     |
| 6) bis(2-Chloroethyl)ether    | 7.012  | 93   | 958      | 0.375 | ng    | 95       |
| 9) Naphthalene                | 10.404 | 128  | 2899     | 0.380 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.693 | 225  | 744      | 0.401 | ng    | # 98     |
| 12) 2-Methylnaphthalene       | 12.026 | 142  | 1579     | 0.340 | ng    | 98       |
| 16) Acenaphthylene            | 13.935 | 152  | 2642     | 0.399 | ng    | 99       |
| 17) Acenaphthene              | 14.288 | 154  | 1561     | 0.366 | ng    | 98       |
| 18) Fluorene                  | 15.282 | 166  | 1981     | 0.361 | ng    | 100      |
| 20) 4,6-Dinitro-2-methylph... | 15.378 | 198  | 205      | 0.463 | ng    | 87       |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 566      | 0.386 | ng    | 89       |
| 22) Hexachlorobenzene         | 16.289 | 284  | 682      | 0.401 | ng    | 98       |
| 23) Atrazine                  | 16.463 | 200  | 212      | 0.162 | ng    | # 81     |
| 24) Pentachlorophenol         | 16.636 | 266  | 600      | 0.720 | ng    | 97       |
| 25) Phenanthrene              | 17.009 | 178  | 2688     | 0.377 | ng    | 99       |
| 26) Anthracene                | 17.108 | 178  | 2516     | 0.385 | ng    | 98       |
| 28) Fluoranthene              | 19.040 | 202  | 2829     | 0.339 | ng    | 99       |
| 30) Pyrene                    | 19.403 | 202  | 2773     | 0.386 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.153 | 228  | 1878     | 0.364 | ng    | 99       |
| 33) Chrysene                  | 21.207 | 228  | 2594     | 0.404 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.099 | 149  | 1471     | 0.383 | ng    | 99       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.547 | 276  | 2405     | 0.487 | ng    | 97       |
| 37) Benzo(b)fluoranthene      | 22.702 | 252  | 2018     | 0.451 | ng    | 96       |
| 38) Benzo(k)fluoranthene      | 22.746 | 252  | 2286     | 0.442 | ng    | 96       |
| 39) Benzo(a)pyrene            | 23.260 | 252  | 1793     | 0.445 | ng    | 94       |
| 40) Dibenzo(a,h)anthracene    | 25.561 | 278  | 1876     | 0.500 | ng    | 95       |
| 41) Benzo(g,h,i)perylene      | 26.210 | 276  | 2136     | 0.467 | ng    | 96       |

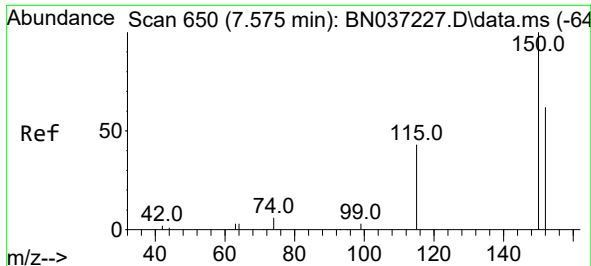
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Data File : BN037280.D  
Acq On : 15 Jun 2025 02:42  
Operator : RC/JU  
Sample : PB168476BS  
Misc :  
ALS Vial : 59 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS

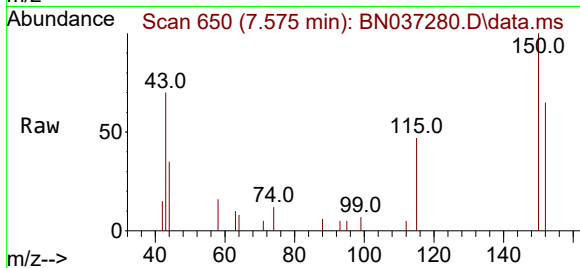
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Response via : Initial Calibration



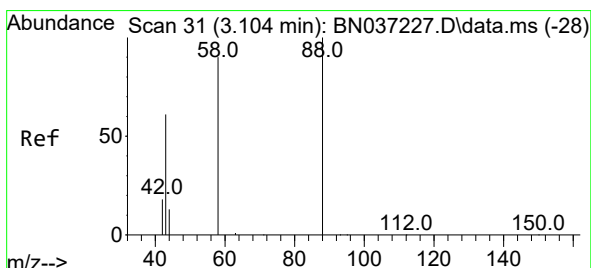
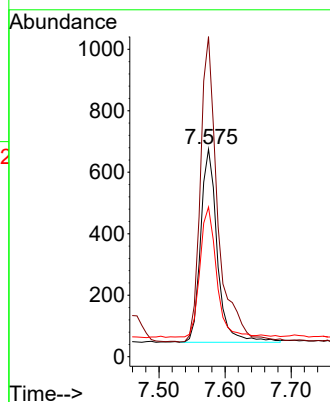
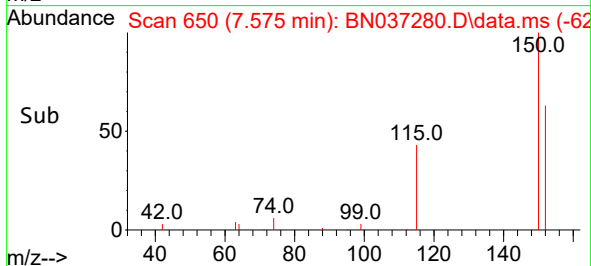


#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.575 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN037280.D  
 Acq: 15 Jun 2025 02:42

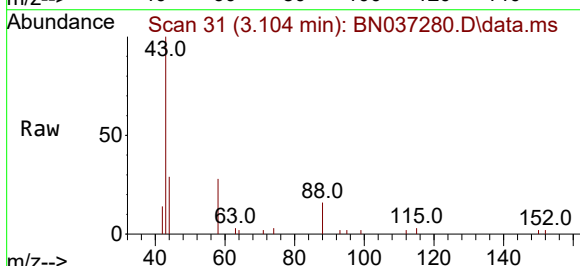
Instrument :  
 BNA\_N  
 ClientSampleId :  
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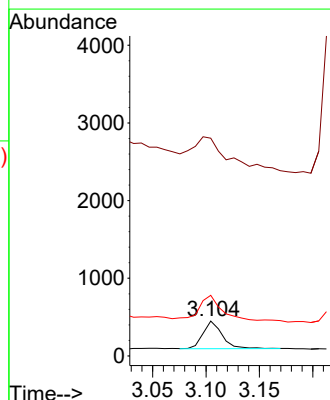
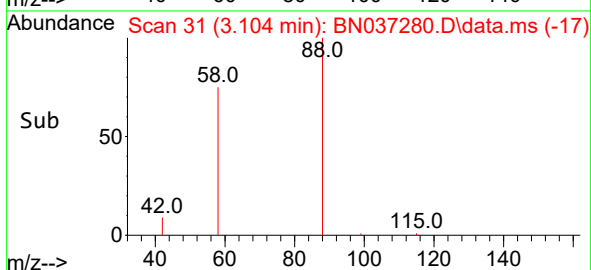
Tgt Ion:152 Resp: 1101  
 Ion Ratio Lower Upper  
 152 100  
 150 154.2 125.2 187.8  
 115 72.1 58.4 87.6

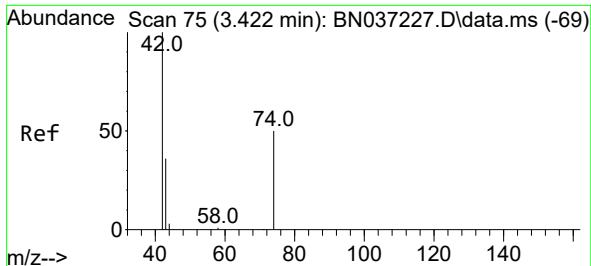


#2  
 1,4-Dioxane  
 Concen: 0.296 ng  
 RT: 3.104 min Scan# 31  
 Delta R.T. 0.000 min  
 Lab File: BN037280.D  
 Acq: 15 Jun 2025 02:42



Tgt Ion: 88 Resp: 447  
 Ion Ratio Lower Upper  
 88 100  
 43 243.8 52.6 79.0#  
 58 133.8 73.5 110.3#

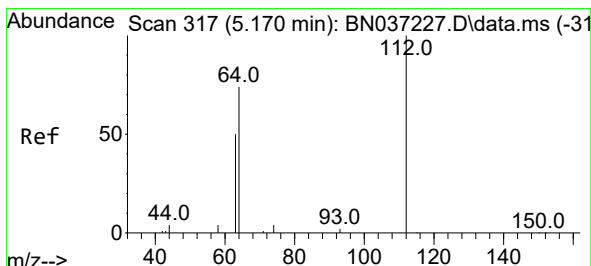
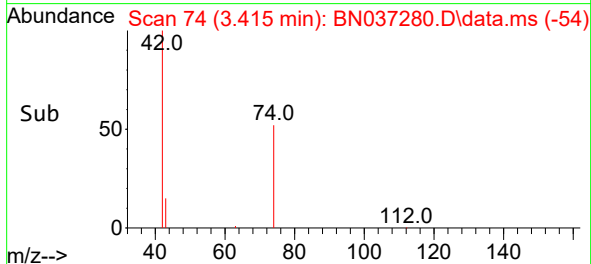
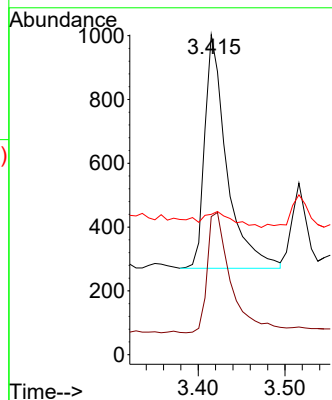
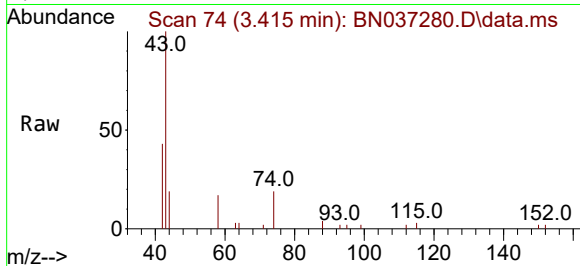




#3  
 n-Nitrosodimethylamine  
 Concen: 0.376 ng  
 RT: 3.415 min Scan# 74  
 Delta R.T. -0.007 min  
 Lab File: BN037280.D  
 Acq: 15 Jun 2025 02:42

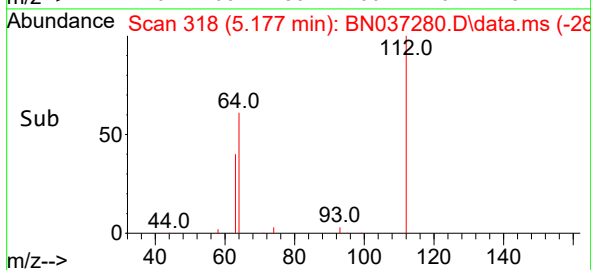
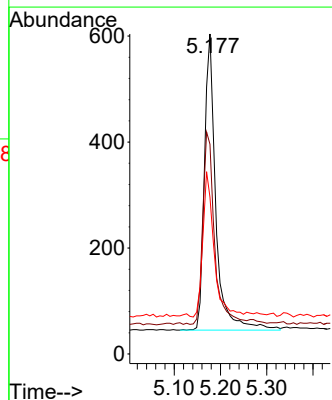
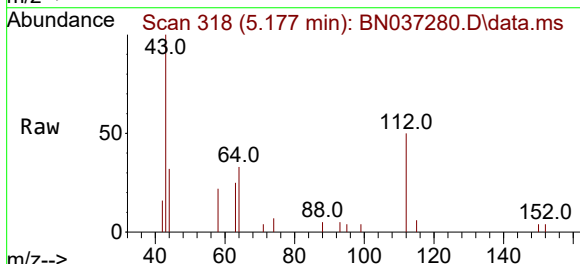
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168476BS

Tgt Ion: 42 Resp: 1294  
 Ion Ratio Lower Upper  
 42 100  
 74 55.5 44.6 66.8  
 44 8.1 3.5 5.3#

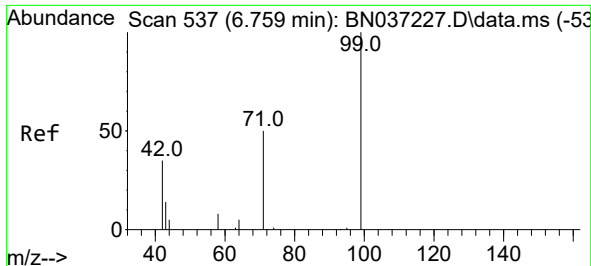


#4  
 2-Fluorophenol  
 Concen: 0.355 ng  
 RT: 5.177 min Scan# 318  
 Delta R.T. 0.007 min  
 Lab File: BN037280.D  
 Acq: 15 Jun 2025 02:42

Tgt Ion: 112 Resp: 961  
 Ion Ratio Lower Upper  
 112 100  
 64 66.6 57.2 85.8  
 63 48.0 39.8 59.6



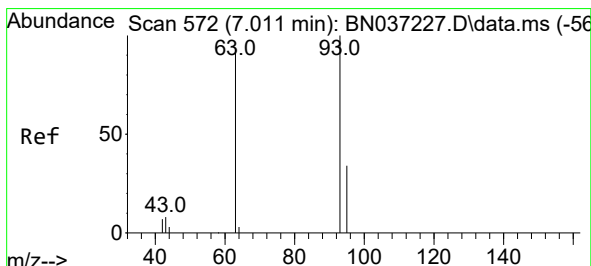
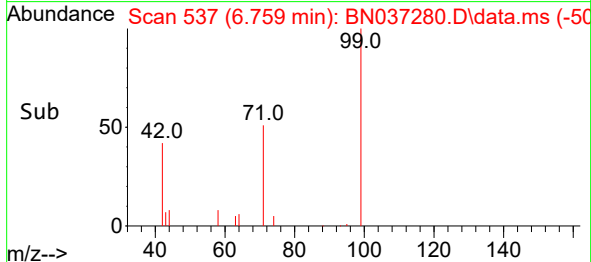
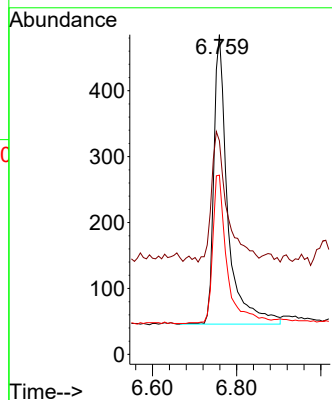
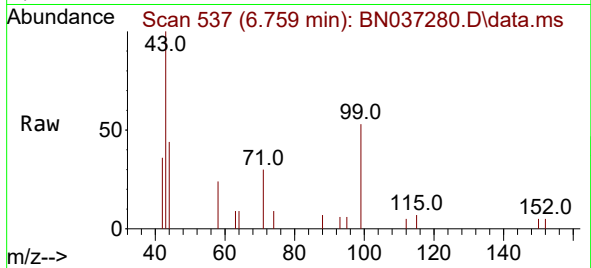




#5  
Phenol-d6  
Concen: 0.355 ng  
RT: 6.759 min Scan# 51  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

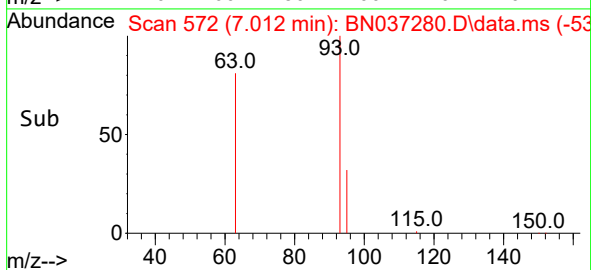
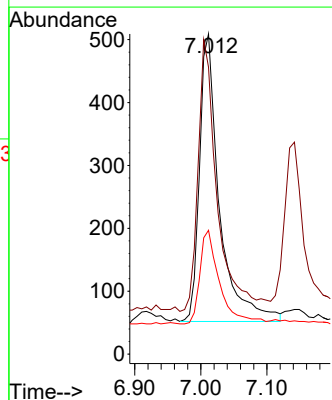
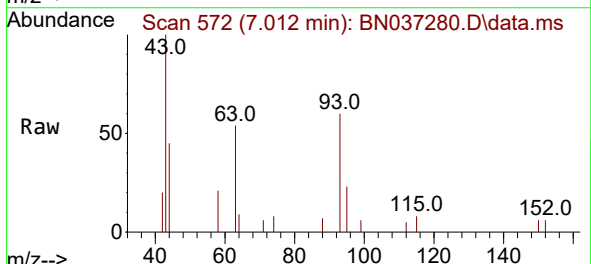
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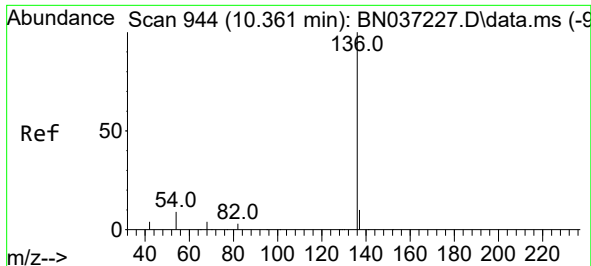
Tgt Ion: 99 Resp: 1013  
Ion Ratio Lower Upper  
99 100  
42 50.8 36.2 54.4  
71 52.3 42.4 63.6



#6  
bis(2-Chloroethyl)ether  
Concen: 0.375 ng  
RT: 7.012 min Scan# 572  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Tgt Ion: 93 Resp: 958  
Ion Ratio Lower Upper  
93 100  
63 89.5 75.2 112.8  
95 32.3 28.3 42.5

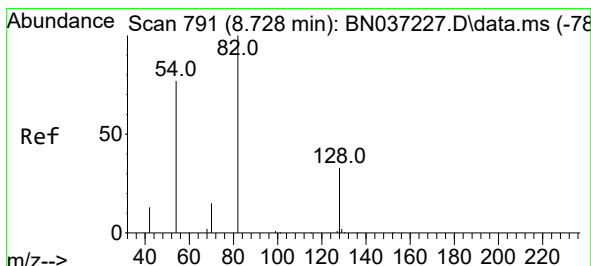
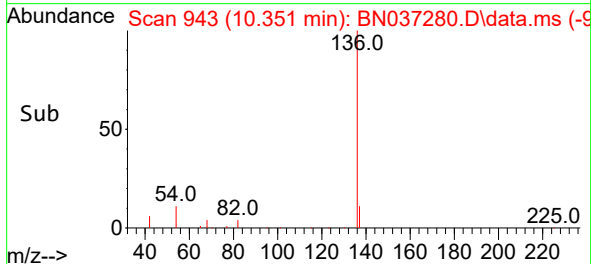
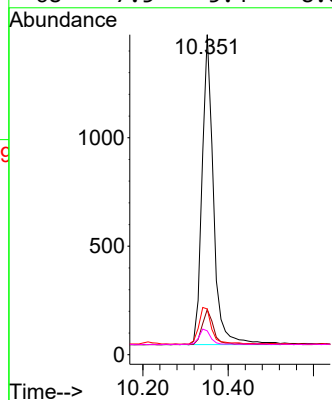
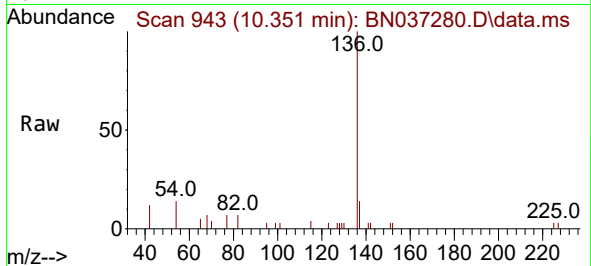




#7  
Naphthalene-d8  
Concen: 0.400 ng  
RT: 10.351 min Scan# 944  
Delta R.T. -0.010 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

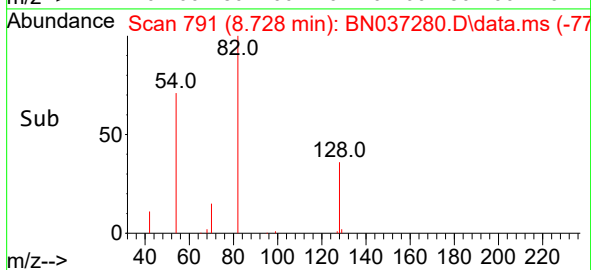
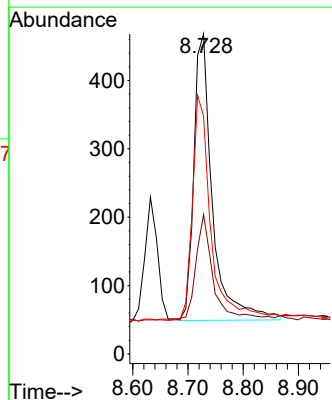
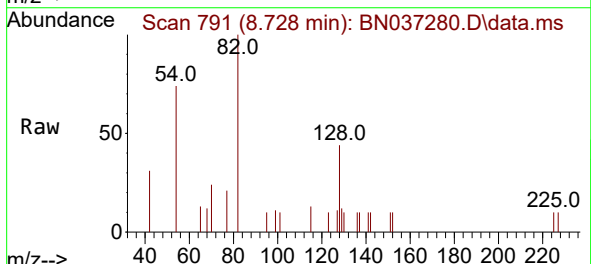
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ClientSampleId :  
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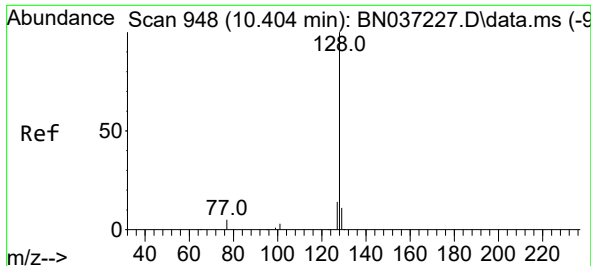
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 136   | Resp: | 2637  |
| Ion      | Ratio | Lower | Upper |
| 136      | 100   |       |       |
| 137      | 14.1  | 10.6  | 15.8  |
| 54       | 14.3  | 9.2   | 13.8  |
| 68       | 7.5   | 5.4   | 8.0   |



#8  
Nitrobenzene-d5  
Concen: 0.376 ng  
RT: 8.728 min Scan# 791  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 82    | Resp: | 979   |
| Ion      | Ratio | Lower | Upper |
| 82       | 100   |       |       |
| 128      | 43.6  | 31.2  | 46.8  |
| 54       | 74.4  | 63.3  | 94.9  |

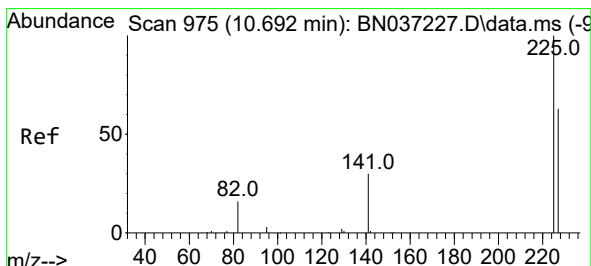
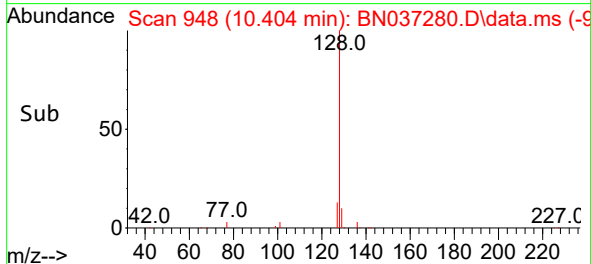
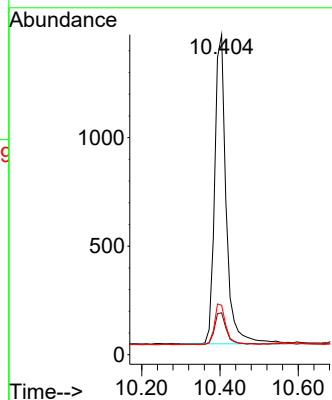
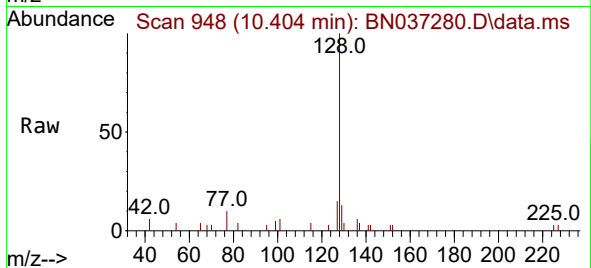




#9  
Naphthalene  
Concen: 0.380 ng  
RT: 10.404 min Scan# 948  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

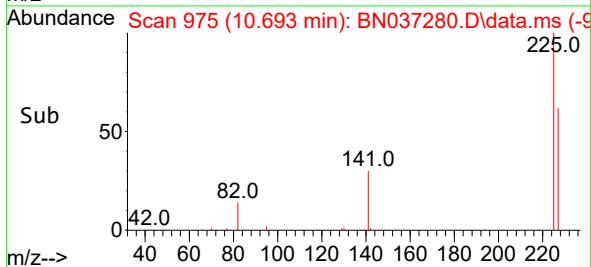
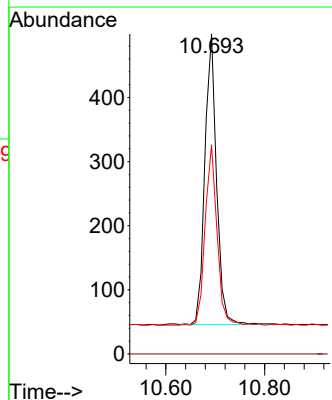
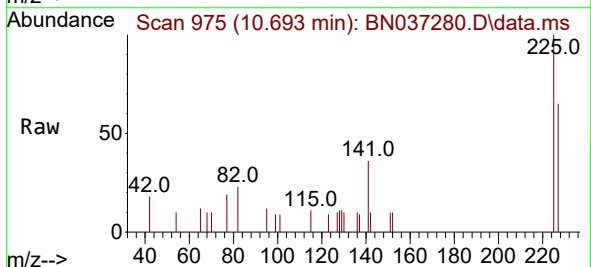
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ClientSampleId :  
PB168476BS

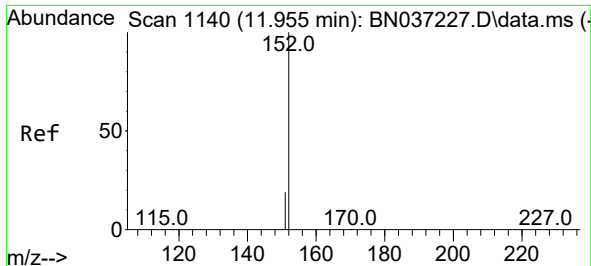
|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 128   | Resp: | 2899  |
| Ion      | Ratio | Lower | Upper |
| 128      | 100   |       |       |
| 129      | 13.1  | 10.7  | 16.1  |
| 127      | 15.5  | 12.6  | 19.0  |



#10  
Hexachlorobutadiene  
Concen: 0.401 ng  
RT: 10.693 min Scan# 975  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 225   | Resp: | 744   |
| Ion      | Ratio | Lower | Upper |
| 225      | 100   |       |       |
| 223      | 0.0   | 0.0   | 0.0   |
| 227      | 63.2  | 49.2  | 73.8  |





#11

2-Methylnaphthalene-d10

Concen: 0.670 ng

RT: 11.950 min Scan# 1139

Delta R.T. -0.005 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

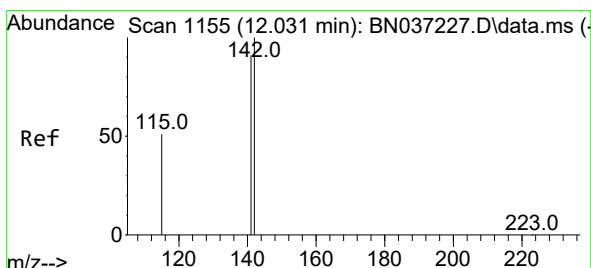
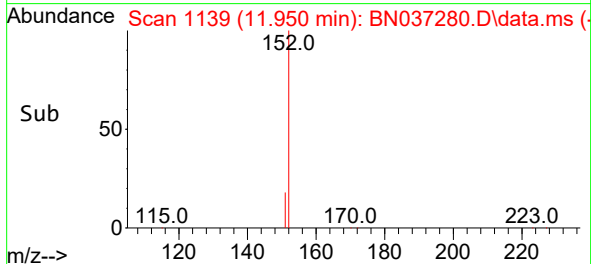
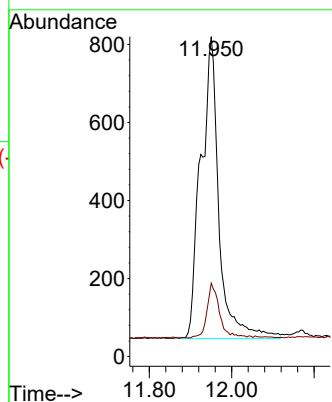
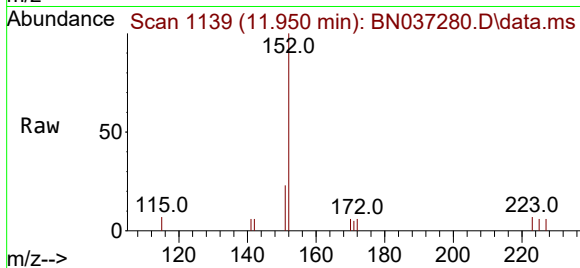
PB168476BS

Tgt Ion:152 Resp: 2371

Ion Ratio Lower Upper

152 100

151 12.3 17.9 26.9#



#12

2-Methylnaphthalene

Concen: 0.340 ng

RT: 12.026 min Scan# 1154

Delta R.T. -0.005 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

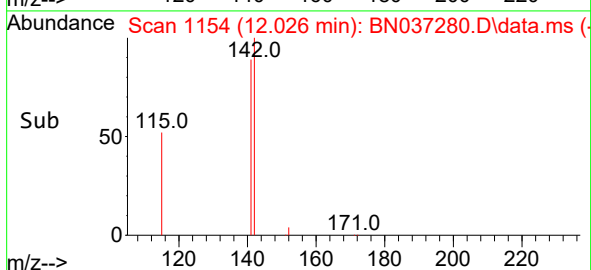
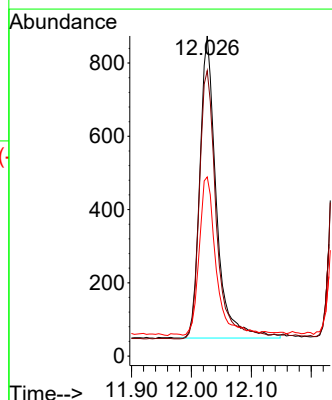
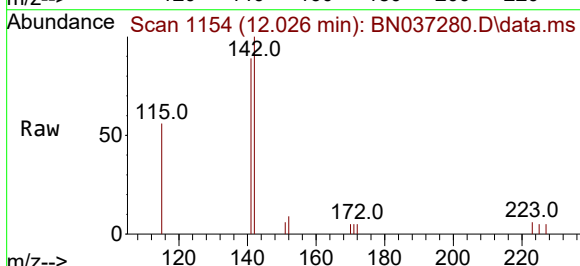
Tgt Ion:142 Resp: 1579

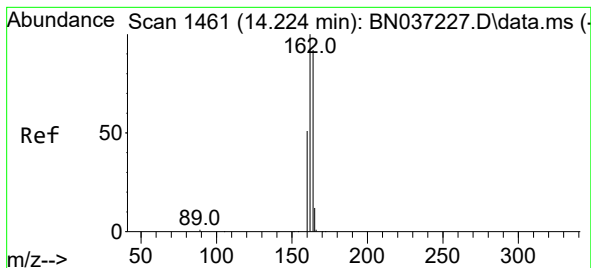
Ion Ratio Lower Upper

142 100

141 89.1 73.0 109.6

115 55.9 43.3 64.9

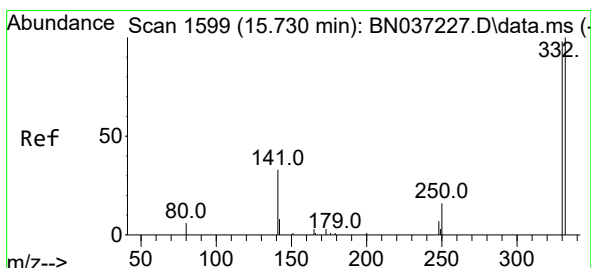
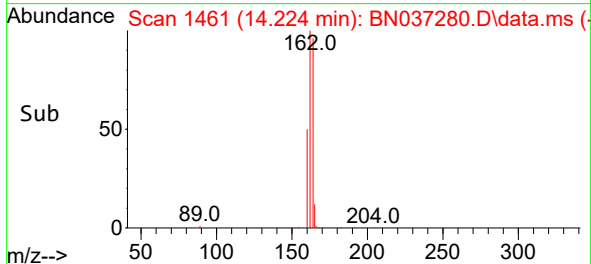
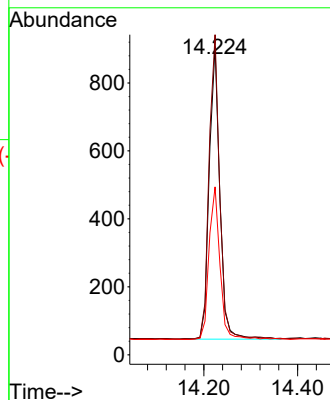
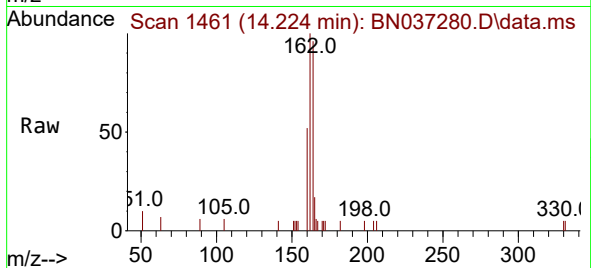




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.224 min Scan# 1461  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

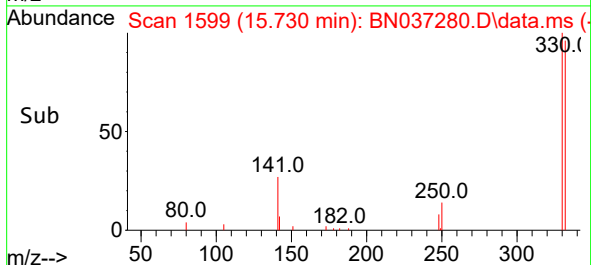
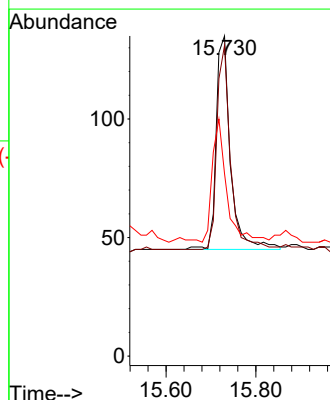
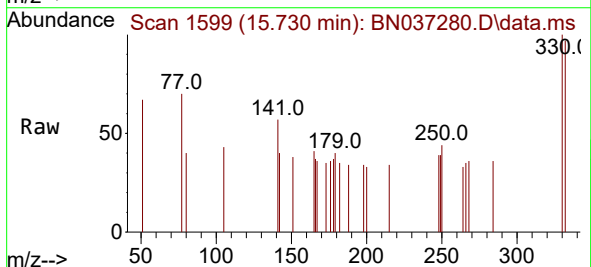
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS

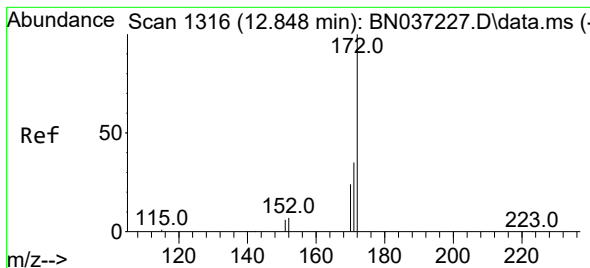
Tgt Ion:164 Resp: 1350  
Ion Ratio Lower Upper  
164 100  
162 103.9 86.7 130.1  
160 54.5 45.8 68.6



#14  
2,4,6-Tribromophenol  
Concen: 0.353 ng  
RT: 15.730 min Scan# 1599  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Tgt Ion:330 Resp: 198  
Ion Ratio Lower Upper  
330 100  
332 90.9 74.9 112.3  
141 53.5 45.1 67.7





#15

2-Fluorobiphenyl

Concen: 0.387 ng

RT: 12.843 min Scan# 11

Delta R.T. -0.005 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

PB168476BS

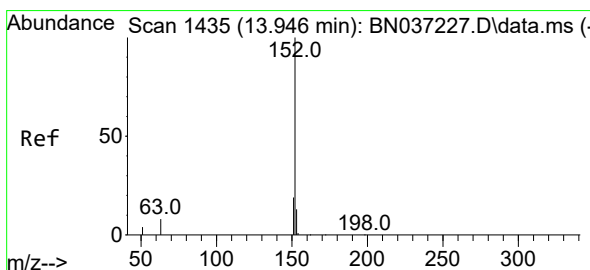
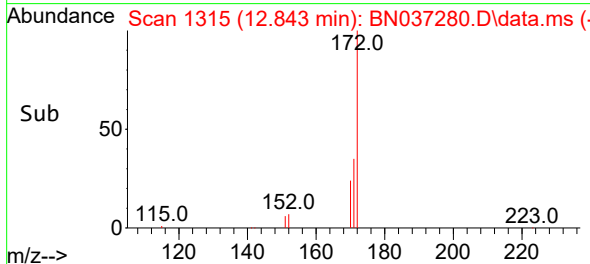
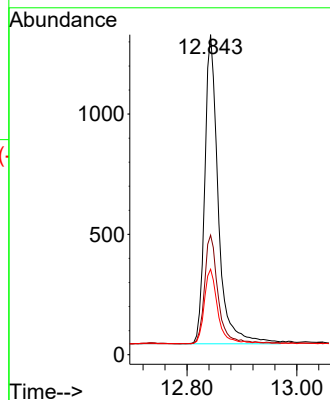
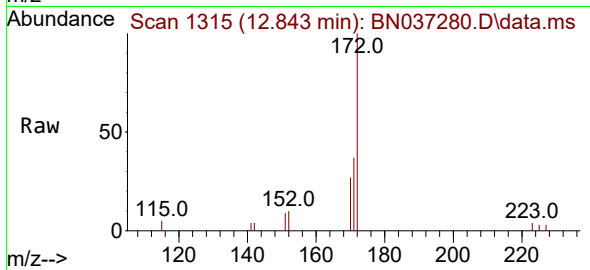
Tgt Ion:172 Resp: 2195

Ion Ratio Lower Upper

172 100

171 37.4 29.8 44.8

170 26.7 21.1 31.7



#16

Acenaphthylene

Concen: 0.399 ng

RT: 13.935 min Scan# 1434

Delta R.T. -0.010 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

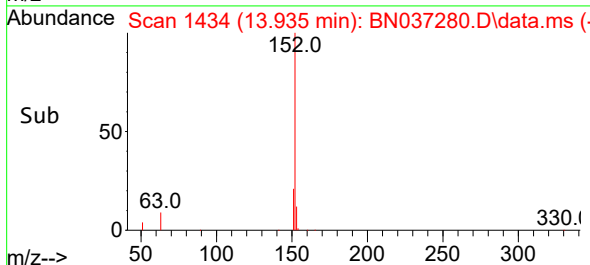
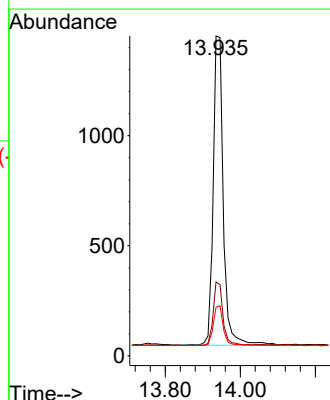
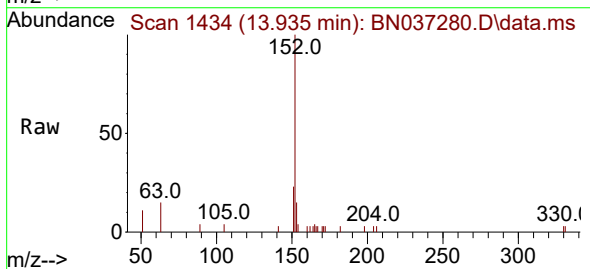
Tgt Ion:152 Resp: 2642

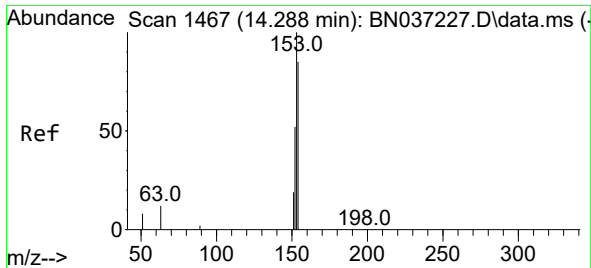
Ion Ratio Lower Upper

152 100

151 20.0 15.7 23.5

153 12.8 10.7 16.1

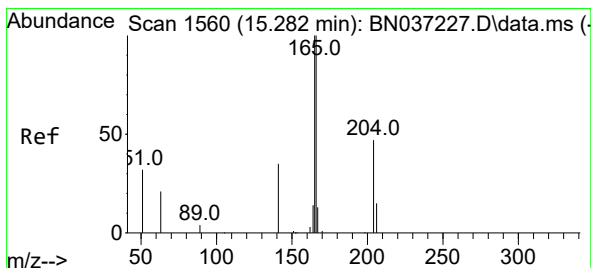
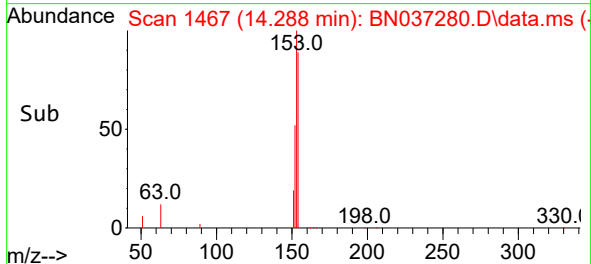
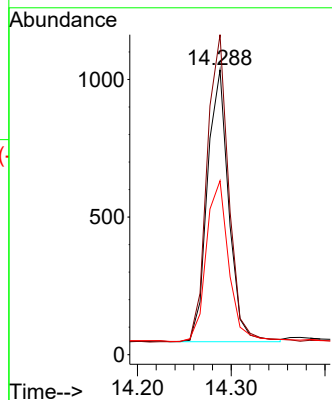
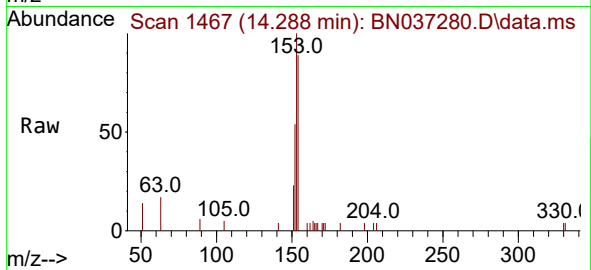




#17  
Acenaphthene  
Concen: 0.366 ng  
RT: 14.288 min Scan# 1467  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

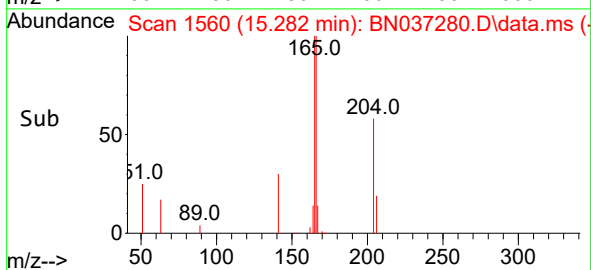
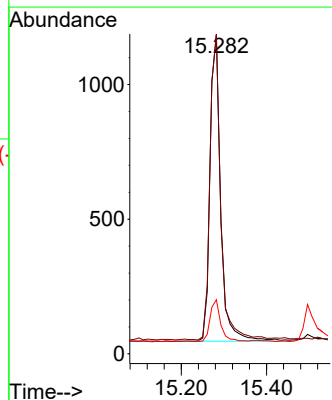
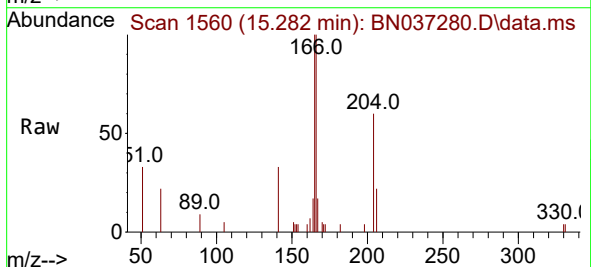
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS

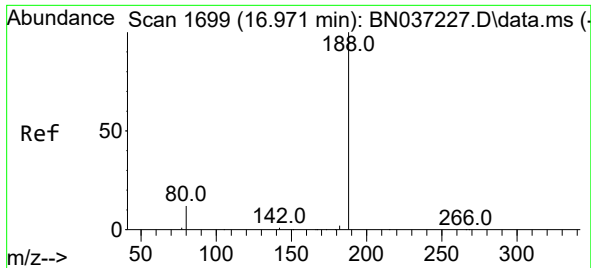
|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 154   | Resp: | 1561  |
| Ion Ratio | Lower | Upper |       |
| 154       | 100   |       |       |
| 153       | 115.1 | 94.6  | 141.8 |
| 152       | 63.2  | 49.6  | 74.4  |



#18  
Fluorene  
Concen: 0.361 ng  
RT: 15.282 min Scan# 1560  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 166   | Resp: | 1981  |
| Ion Ratio | Lower | Upper |       |
| 166       | 100   |       |       |
| 165       | 99.1  | 79.8  | 119.6 |
| 167       | 13.5  | 10.8  | 16.2  |

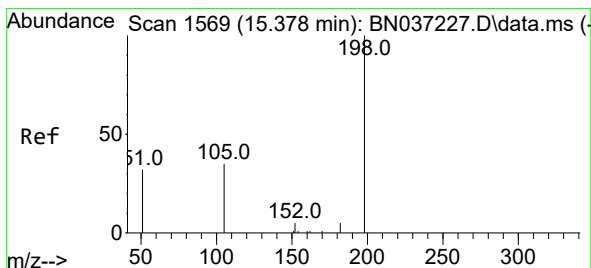
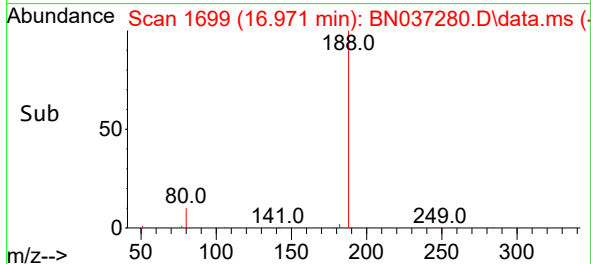
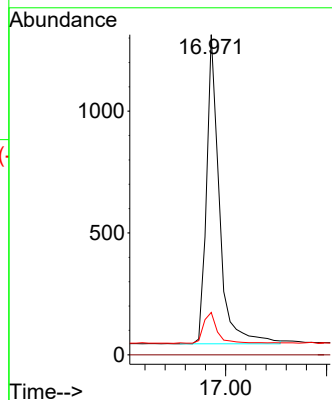
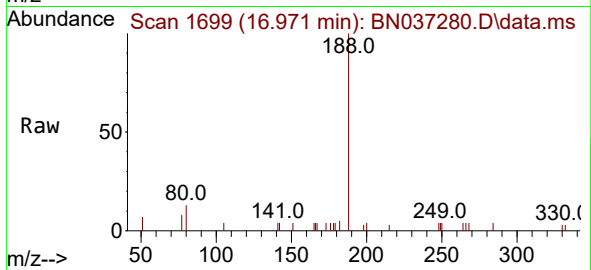




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.971 min Scan# 1699  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

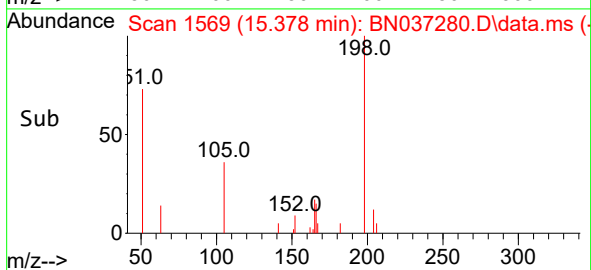
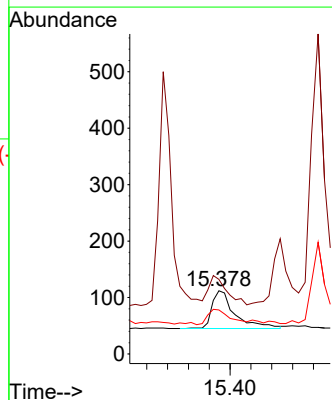
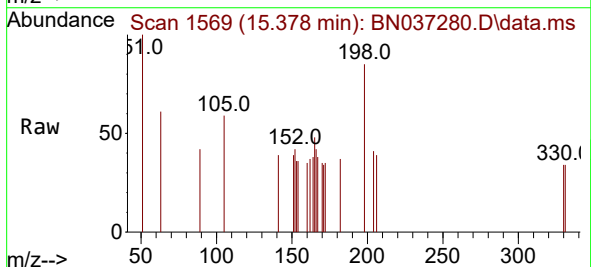
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS

Tgt Ion:188 Resp: 2251  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.2 12.2 18.4

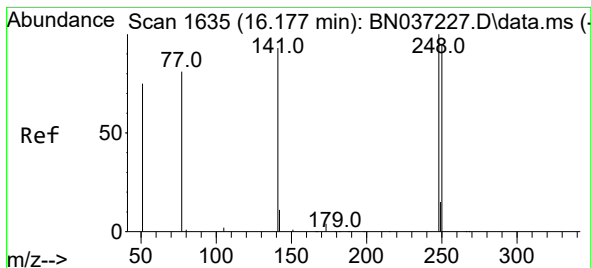


#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.463 ng  
RT: 15.378 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Tgt Ion:198 Resp: 205  
Ion Ratio Lower Upper  
198 100  
51 117.9 111.2 166.8  
105 69.6 54.0 81.0



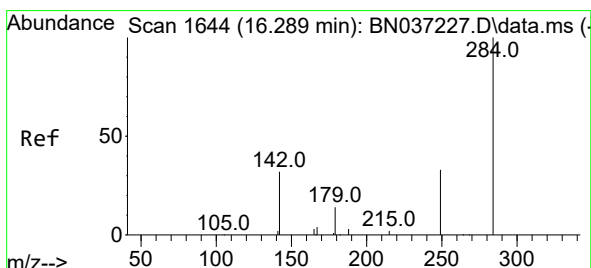
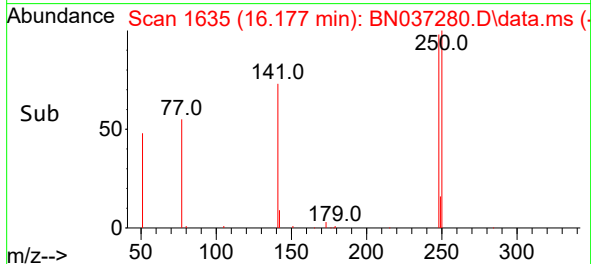
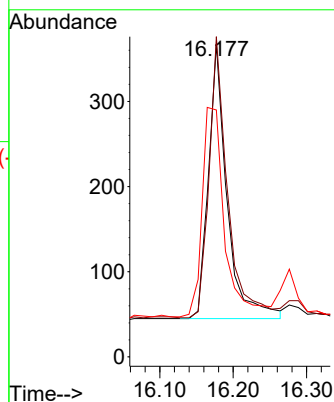
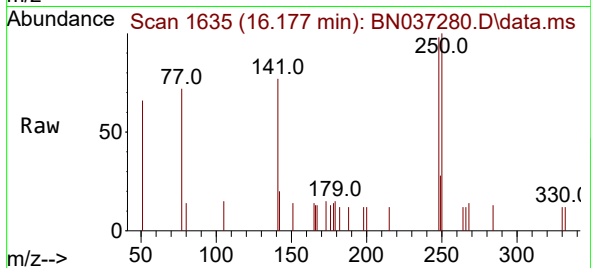




#21  
4-Bromophenyl-phenylether  
Concen: 0.386 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

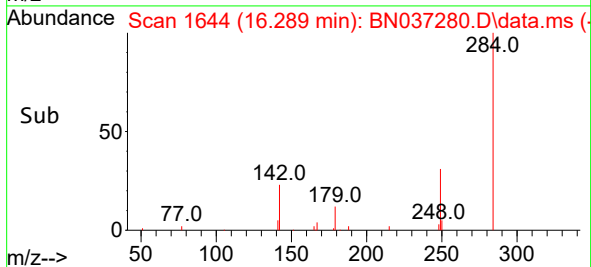
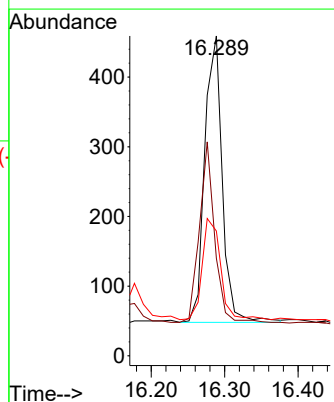
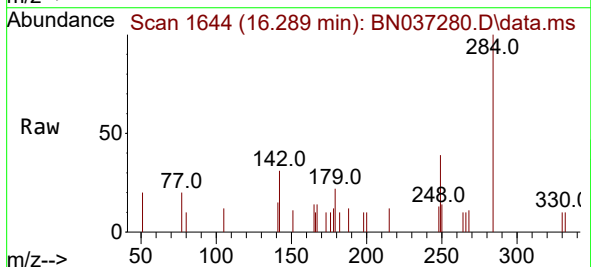
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS

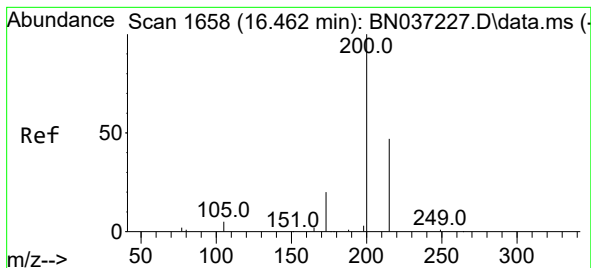
Tgt Ion:248 Resp: 566  
Ion Ratio Lower Upper  
248 100  
250 102.5 76.8 115.2  
141 79.0 75.6 113.4



#22  
Hexachlorobenzene  
Concen: 0.401 ng  
RT: 16.289 min Scan# 1644  
Delta R.T. 0.000 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Tgt Ion:284 Resp: 682  
Ion Ratio Lower Upper  
284 100  
142 55.4 43.8 65.6  
249 37.1 28.4 42.6





#23

Atrazine

Concen: 0.162 ng

RT: 16.463 min Scan# 1658

Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

PB168476BS

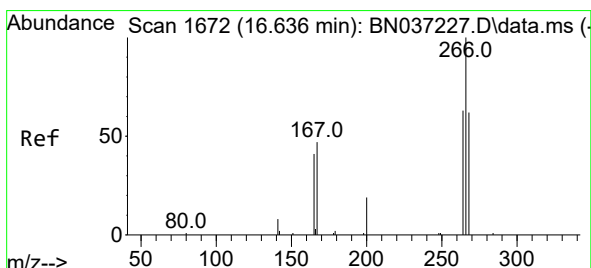
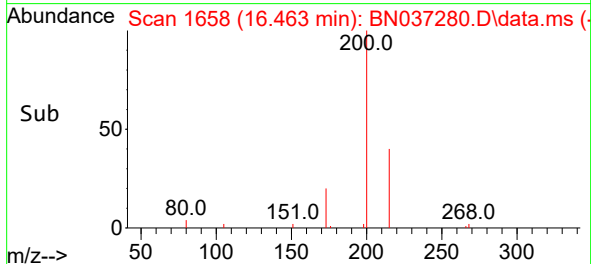
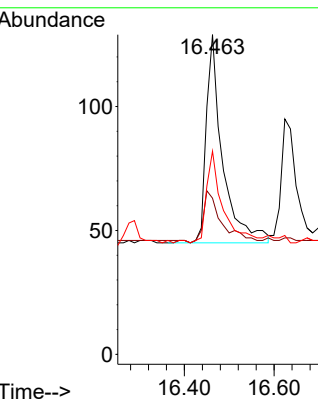
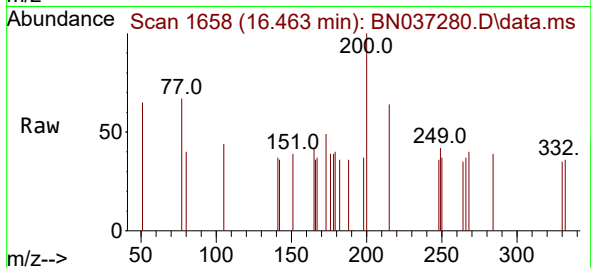
Tgt Ion:200 Resp: 212

Ion Ratio Lower Upper

200 100

173 48.8 25.1 37.7#

215 63.6 43.7 65.5



#24

Pentachlorophenol

Concen: 0.720 ng

RT: 16.636 min Scan# 1672

Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

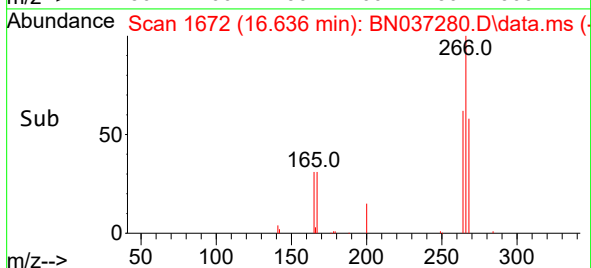
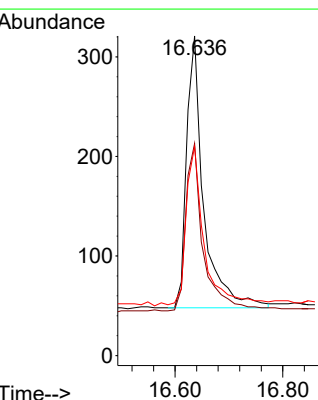
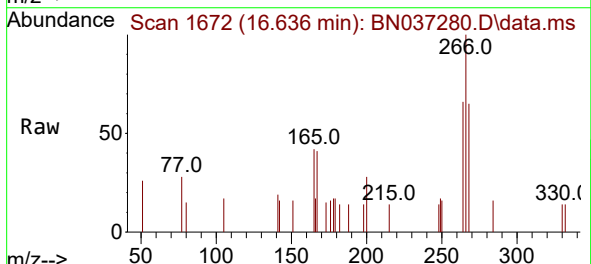
Tgt Ion:266 Resp: 600

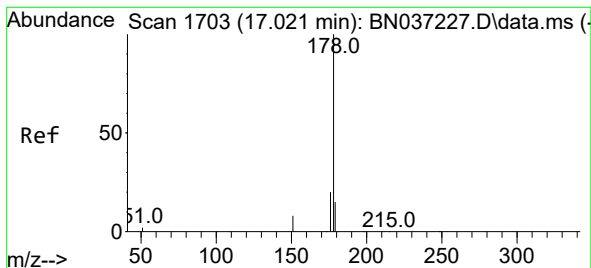
Ion Ratio Lower Upper

266 100

264 63.2 49.2 73.8

268 63.2 53.4 80.2





#25

Phenanthrene

Concen: 0.377 ng

RT: 17.009 min Scan# 1702

Delta R.T. -0.012 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

PB168476BS

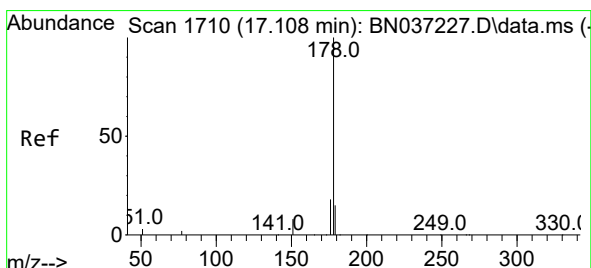
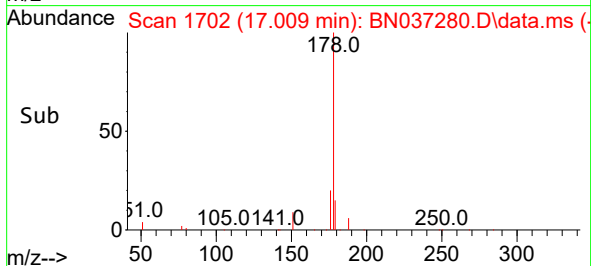
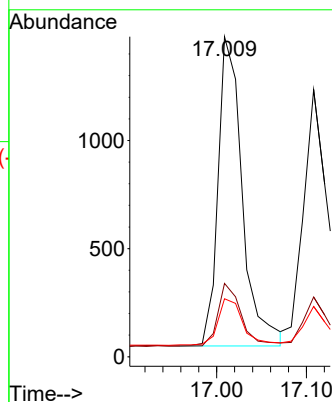
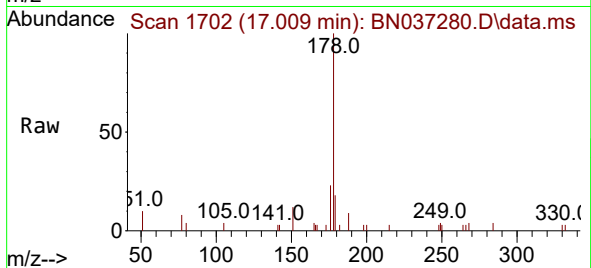
Tgt Ion:178 Resp: 2688

Ion Ratio Lower Upper

178 100

176 19.6 16.3 24.5

179 15.7 12.6 18.8



#26

Anthracene

Concen: 0.385 ng

RT: 17.108 min Scan# 1710

Delta R.T. 0.000 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

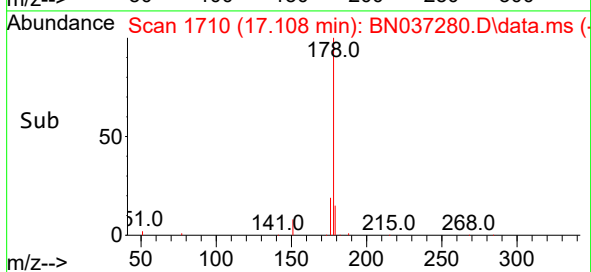
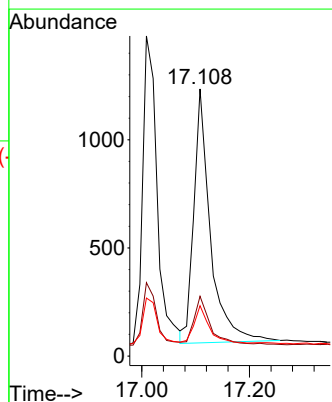
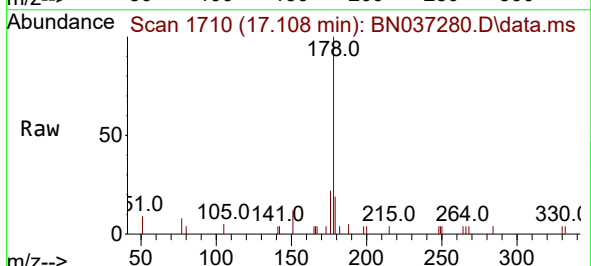
Tgt Ion:178 Resp: 2516

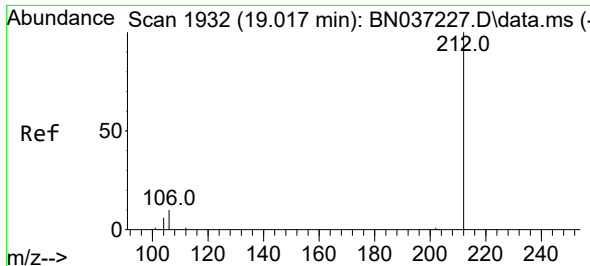
Ion Ratio Lower Upper

178 100

176 18.9 15.1 22.7

179 13.6 12.4 18.6

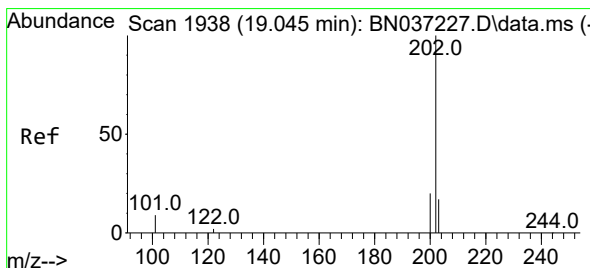
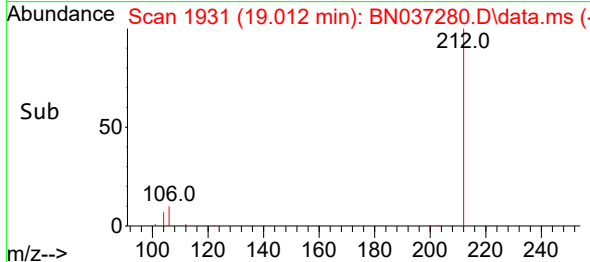
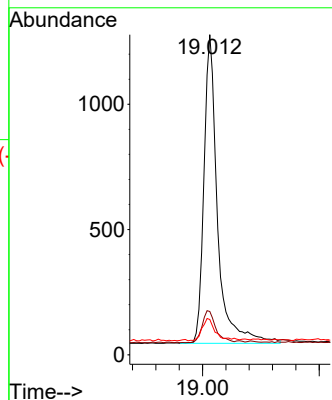
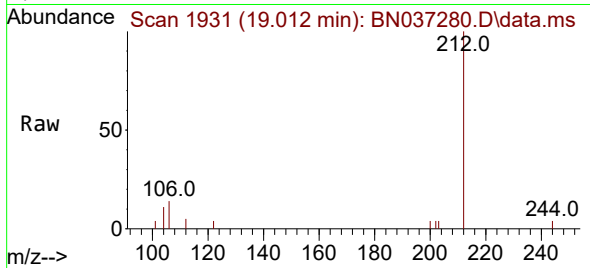




#27  
Fluoranthene-d10  
Concen: 0.339 ng  
RT: 19.012 min Scan# 1932  
Delta R.T. -0.004 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

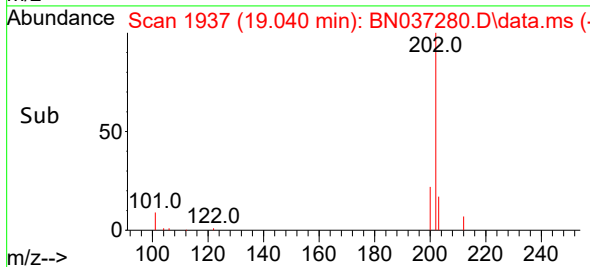
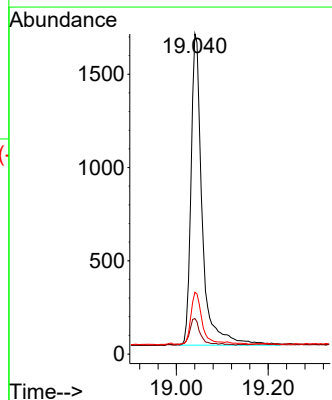
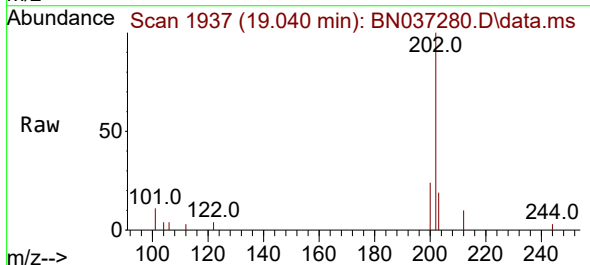
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS

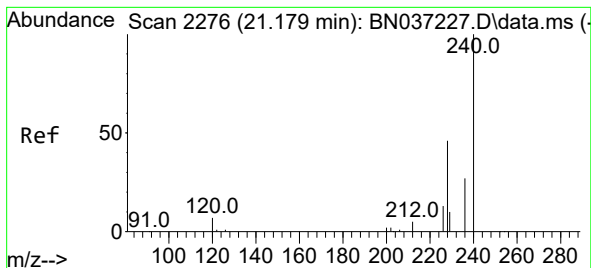
Tgt Ion:212 Resp: 1999  
Ion Ratio Lower Upper  
212 100  
106 10.5 9.3 13.9  
104 7.1 5.7 8.5



#28  
Fluoranthene  
Concen: 0.339 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.004 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Tgt Ion:202 Resp: 2829  
Ion Ratio Lower Upper  
202 100  
101 8.6 7.1 10.7  
203 16.5 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.171 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

PB168476BS

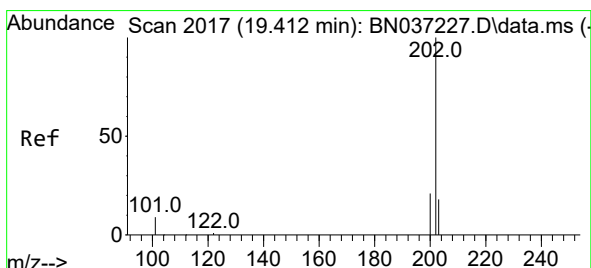
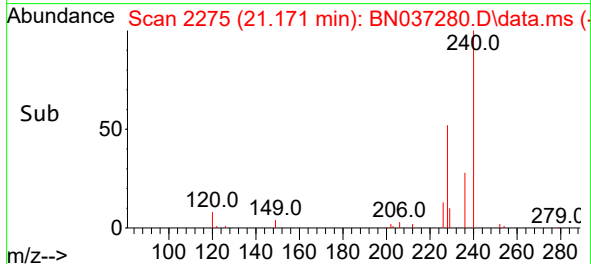
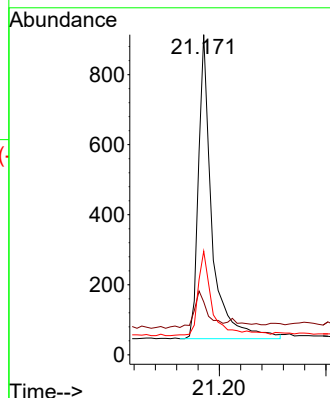
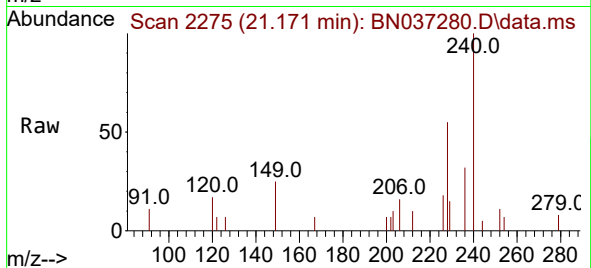
Tgt Ion:240 Resp: 1528

Ion Ratio Lower Upper

240 100

120 16.5 11.3 16.9

236 32.4 24.4 36.6



#30

Pyrene

Concen: 0.386 ng

RT: 19.403 min Scan# 2015

Delta R.T. -0.009 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

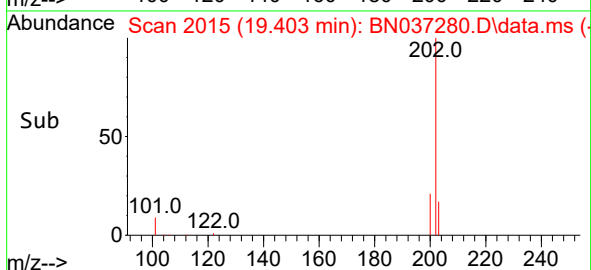
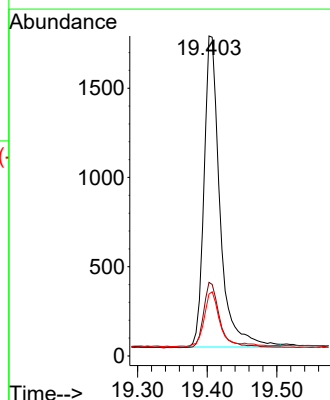
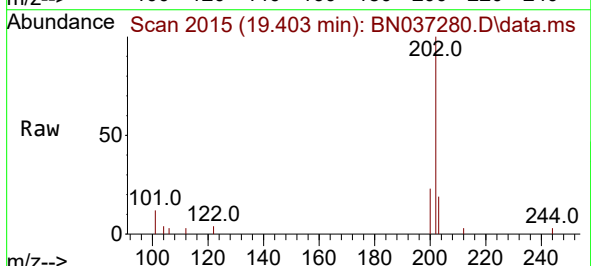
Tgt Ion:202 Resp: 2773

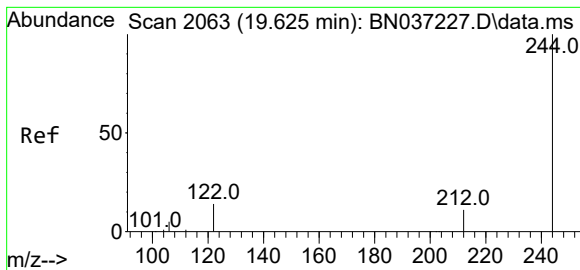
Ion Ratio Lower Upper

202 100

200 21.6 17.2 25.8

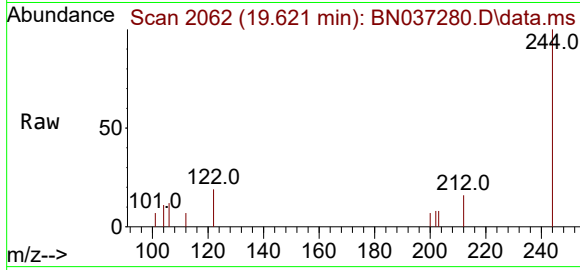
203 16.9 14.3 21.5



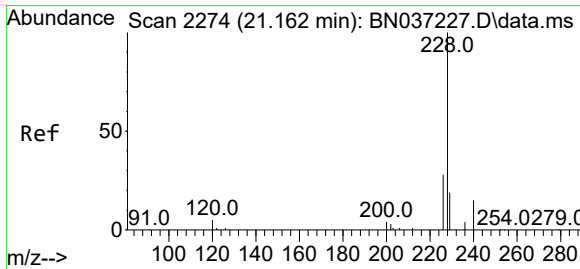
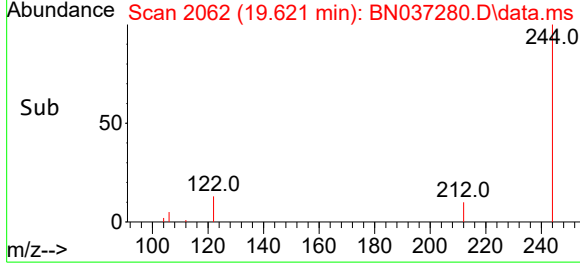
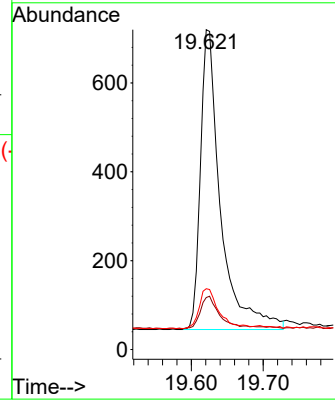


#31  
 Terphenyl-d14  
 Concen: 0.380 ng  
 RT: 19.621 min Scan# 2062  
 Delta R.T. -0.004 min  
 Lab File: BN037280.D  
 Acq: 15 Jun 2025 02:42

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168476BS

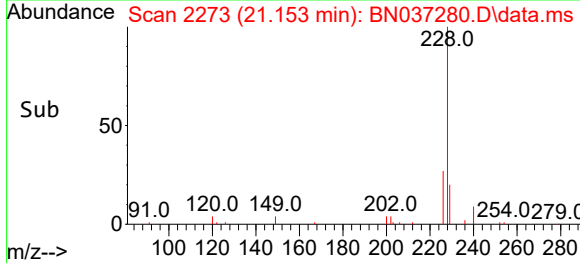
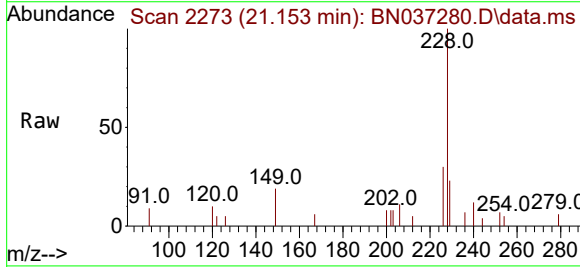
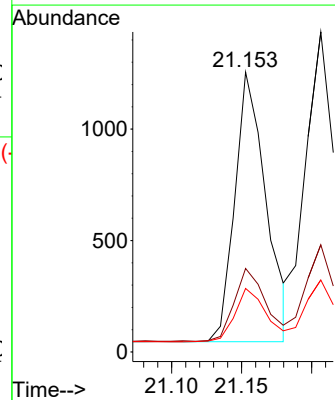


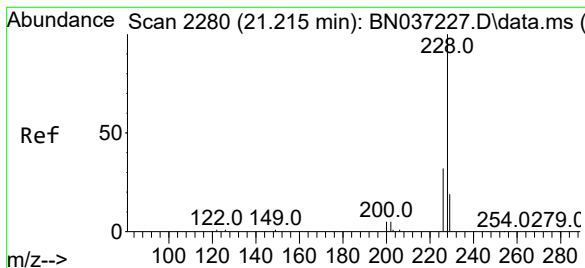
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 244   | Resp: | 1313 |
| Ion Ratio | Lower | Upper |      |
| 244       | 100   |       |      |
| 212       | 16.2  | 12.2  | 18.2 |
| 122       | 19.0  | 14.3  | 21.5 |



#32  
 Benzo(a)anthracene  
 Concen: 0.364 ng  
 RT: 21.153 min Scan# 2273  
 Delta R.T. -0.009 min  
 Lab File: BN037280.D  
 Acq: 15 Jun 2025 02:42

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 228   | Resp: | 1878 |
| Ion Ratio | Lower | Upper |      |
| 228       | 100   |       |      |
| 226       | 29.9  | 23.8  | 35.8 |
| 229       | 22.7  | 17.0  | 25.4 |





#33

Chrysene

Concen: 0.404 ng

RT: 21.207 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

PB168476BS

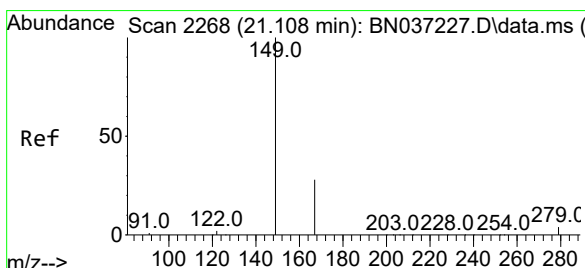
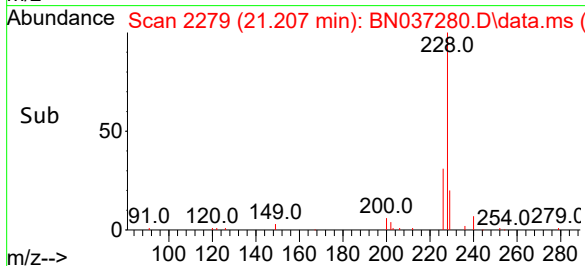
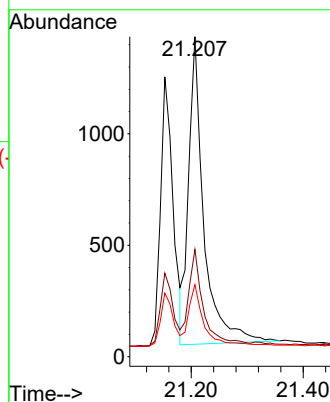
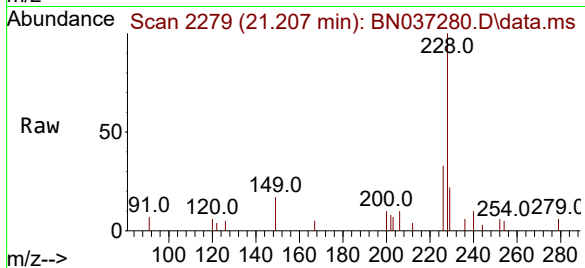
Tgt Ion:228 Resp: 2594

Ion Ratio Lower Upper

228 100

226 33.5 25.8 38.6

229 22.5 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.383 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

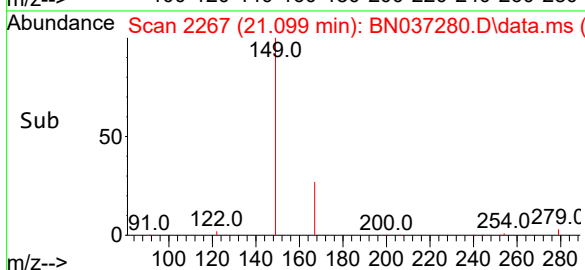
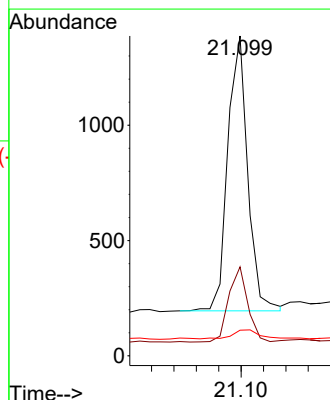
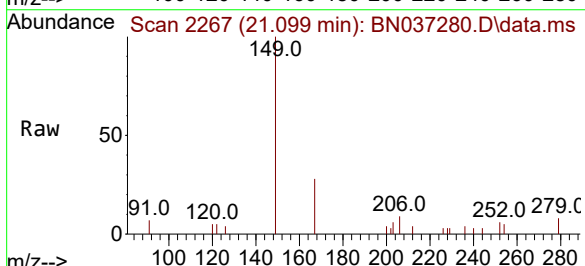
Tgt Ion:149 Resp: 1471

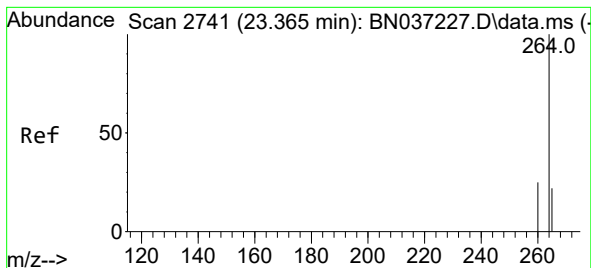
Ion Ratio Lower Upper

149 100

167 26.4 21.3 31.9

279 4.5 3.3 4.9





#35

Perylene-d12

Concen: 0.400 ng

RT: 23.357 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037280.D

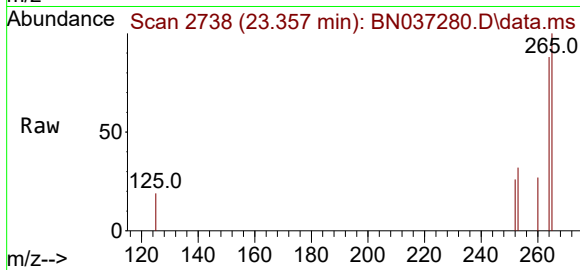
Acq: 15 Jun 2025 02:42

Instrument :

BNA\_N

ClientSampleId :

PB168476BS



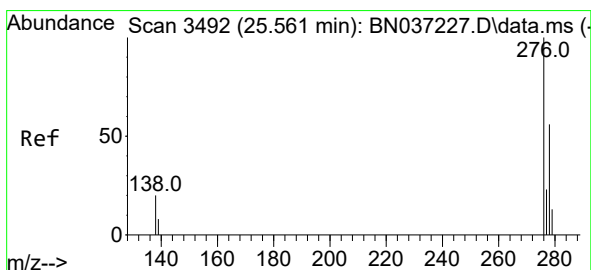
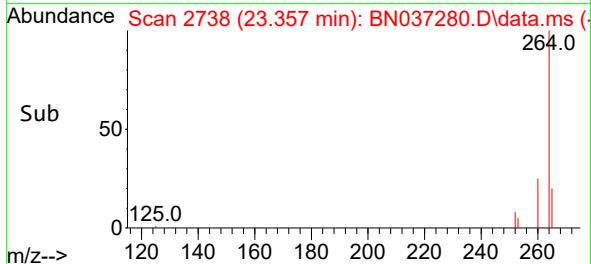
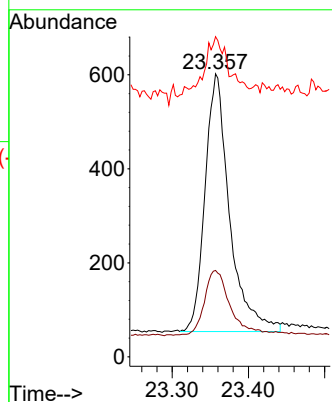
Tgt Ion:264 Resp: 1224

Ion Ratio Lower Upper

264 100

260 30.6 22.8 34.2

265 113.1 66.4 99.6#



#36

Indeno(1,2,3-cd)pyrene

Concen: 0.487 ng

RT: 25.547 min Scan# 3487

Delta R.T. -0.014 min

Lab File: BN037280.D

Acq: 15 Jun 2025 02:42

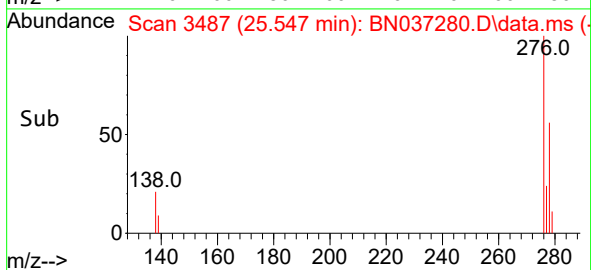
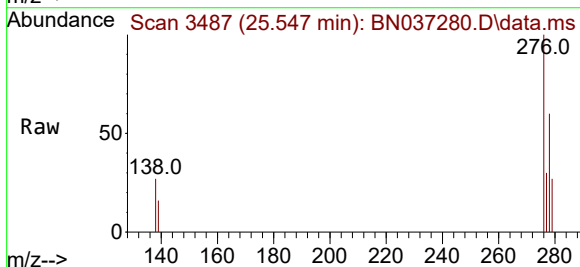
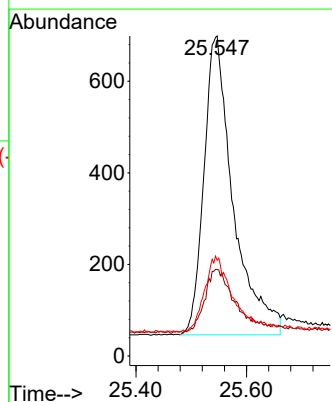
Tgt Ion:276 Resp: 2405

Ion Ratio Lower Upper

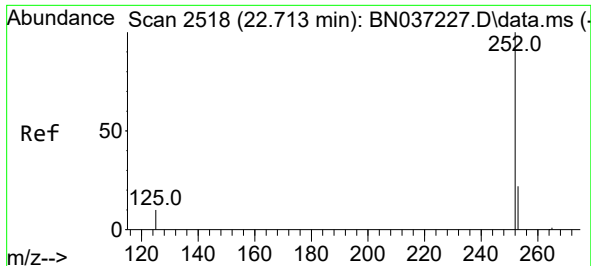
276 100

138 22.6 16.8 25.2

277 23.1 19.5 29.3

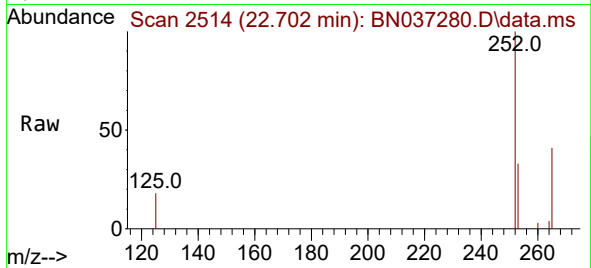




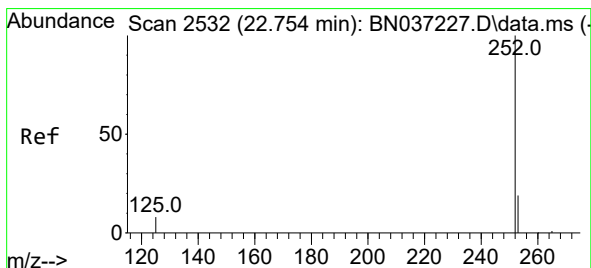
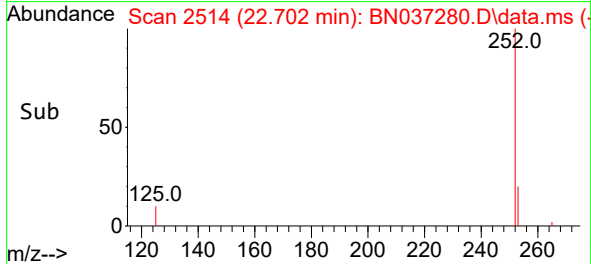
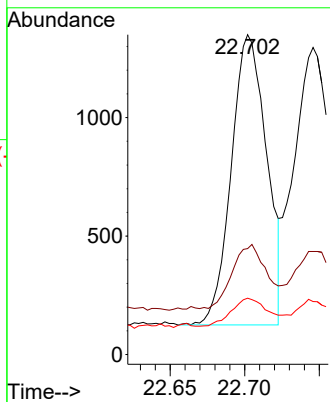


#37  
Benzo(b)fluoranthene  
Concen: 0.451 ng  
RT: 22.702 min Scan# 2514  
Delta R.T. -0.012 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS

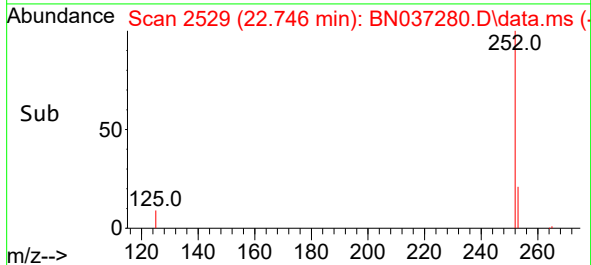
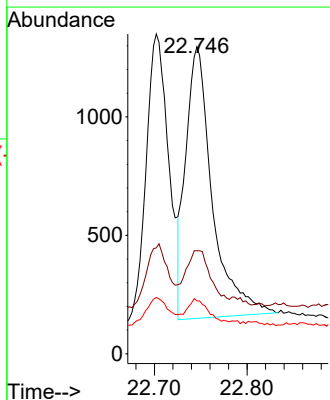
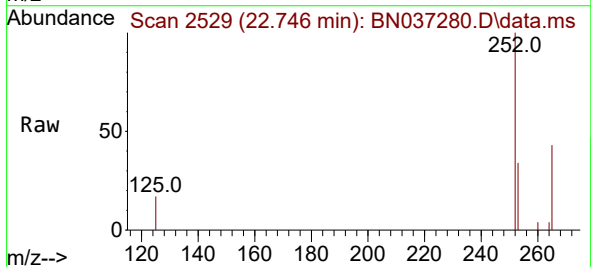


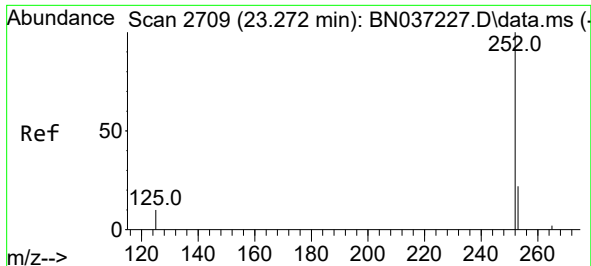
Tgt Ion:252 Resp: 2018  
Ion Ratio Lower Upper  
252 100  
253 33.1 24.9 37.3  
125 17.6 12.9 19.3



#38  
Benzo(k)fluoranthene  
Concen: 0.442 ng  
RT: 22.746 min Scan# 2529  
Delta R.T. -0.009 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

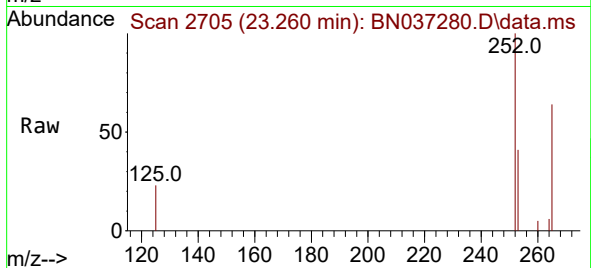
Tgt Ion:252 Resp: 2286  
Ion Ratio Lower Upper  
252 100  
253 33.6 24.6 37.0  
125 17.3 13.4 20.2



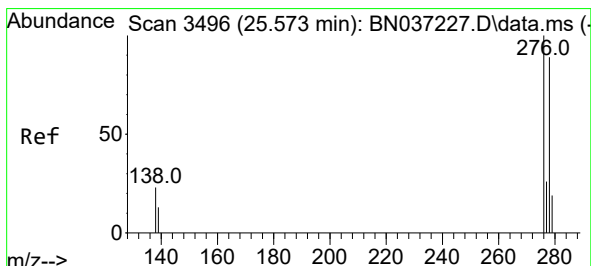
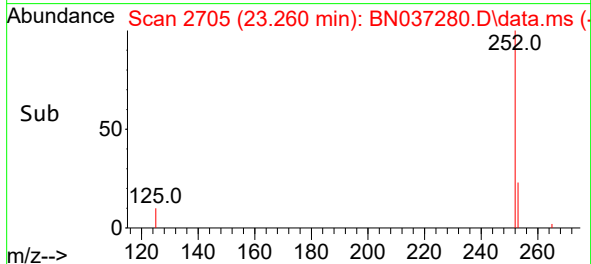
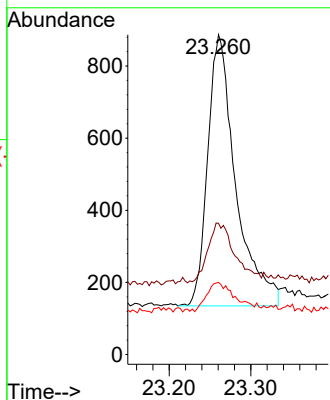


#39  
Benzo(a)pyrene  
Concen: 0.445 ng  
RT: 23.260 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS

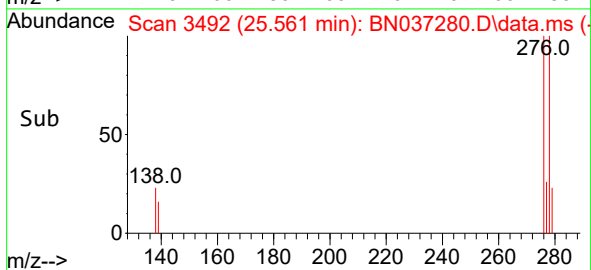
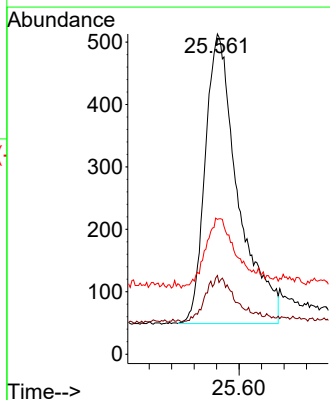
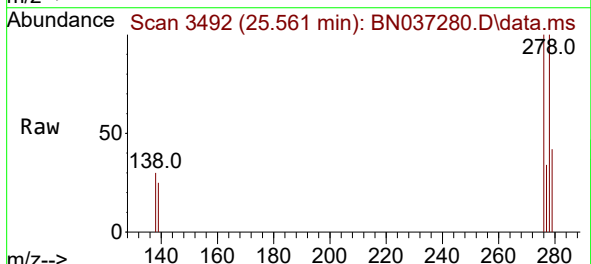


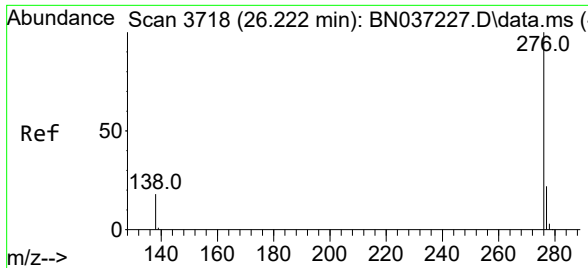
Tgt Ion:252 Resp: 1793  
Ion Ratio Lower Upper  
252 100  
253 41.0 29.4 44.2  
125 22.5 16.2 24.2



#40  
Dibenzo(a,h)anthracene  
Concen: 0.500 ng  
RT: 25.561 min Scan# 3492  
Delta R.T. -0.012 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

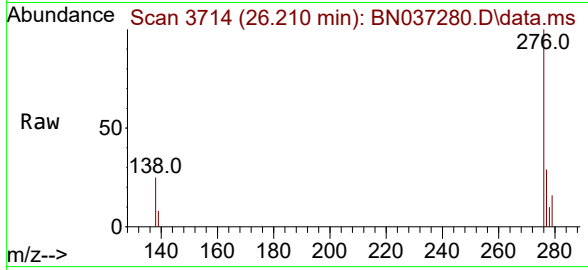
Tgt Ion:278 Resp: 1876  
Ion Ratio Lower Upper  
278 100  
139 24.6 17.8 26.6  
279 42.1 31.3 46.9



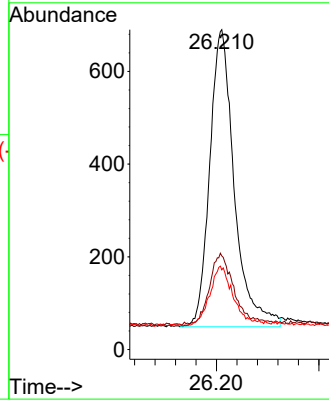
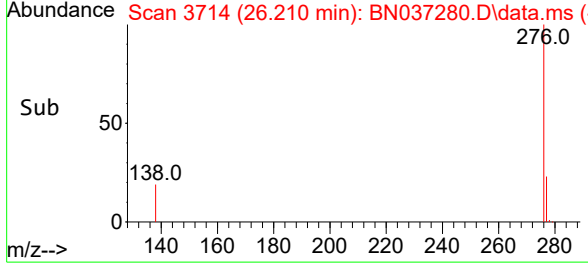


#41  
Benzo(g,h,i)perylene  
Concen: 0.467 ng  
RT: 26.210 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: BN037280.D  
Acq: 15 Jun 2025 02:42

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BS



|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 276   | Resp: | 2136  |
| Ion      | Ratio | Lower | Upper |
| 276      | 100   |       |       |
| 277      | 29.3  | 22.0  | 33.0  |
| 138      | 24.9  | 18.4  | 27.6  |



Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
 Data File : BN037281.D  
 Acq On : 15 Jun 2025 03:18  
 Operator : RC/JU  
 Sample : PB168476BSD  
 Misc :  
 ALS Vial : 60 Sample Multiplier: 1

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168476BSD

Quant Time: Jun 16 02:47:33 2025  
 Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
 Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
 QLast Update : Fri Jun 13 18:43:34 2025  
 Response via : Initial Calibration

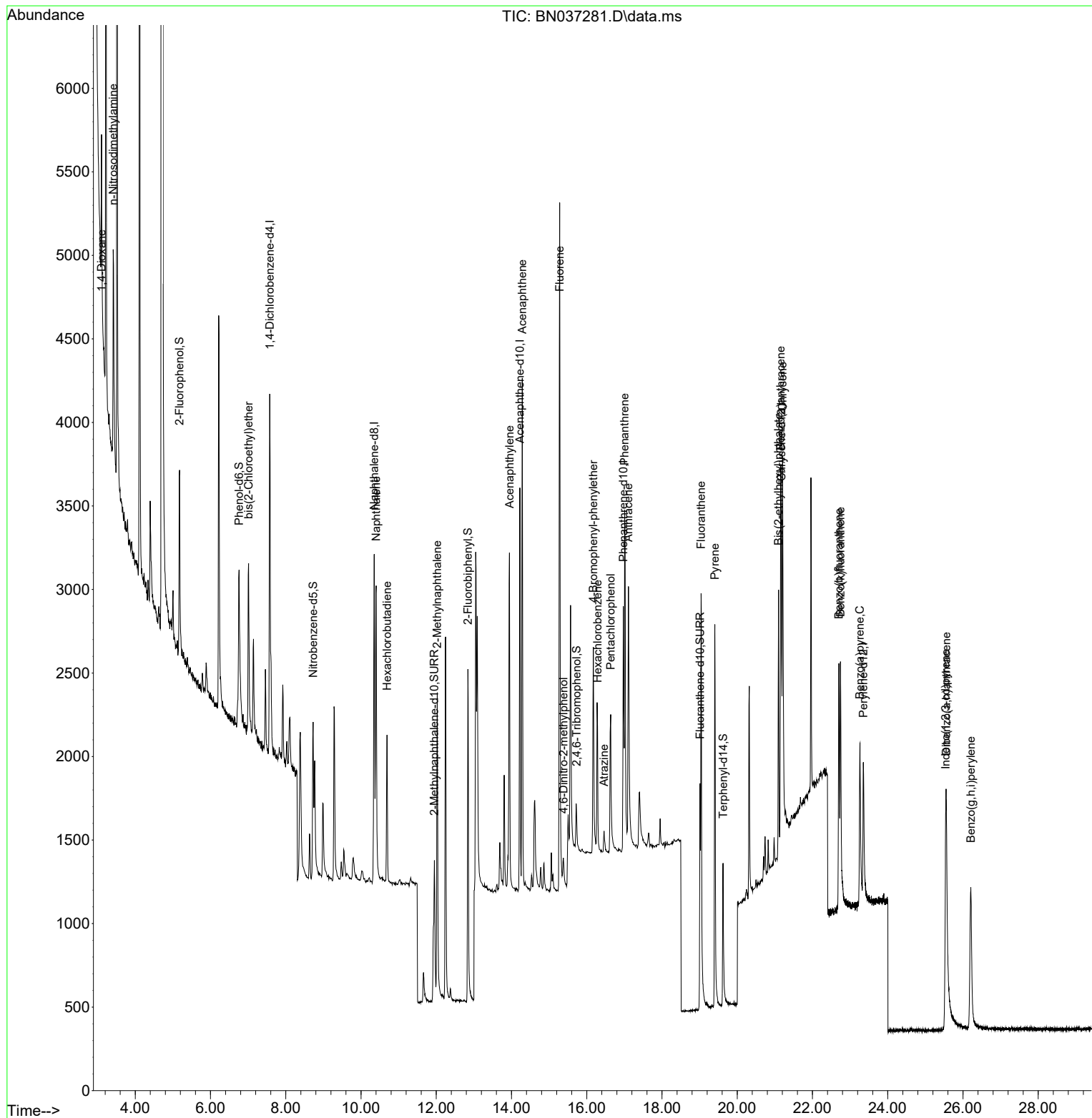
| Compound                      | R.T.   | QIon | Response | Conc  | Units | Dev(Min) |
|-------------------------------|--------|------|----------|-------|-------|----------|
| Internal Standards            |        |      |          |       |       |          |
| 1) 1,4-Dichlorobenzene-d4     | 7.575  | 152  | 1070     | 0.400 | ng    | 0.00     |
| 7) Naphthalene-d8             | 10.351 | 136  | 2630     | 0.400 | ng    | #-0.01   |
| 13) Acenaphthene-d10          | 14.223 | 164  | 1332     | 0.400 | ng    | 0.00     |
| 19) Phenanthrene-d10          | 16.971 | 188  | 2256     | 0.400 | ng    | 0.00     |
| 29) Chrysene-d12              | 21.170 | 240  | 1565     | 0.400 | ng    | 0.00     |
| 35) Perylene-d12              | 23.354 | 264  | 1276     | 0.400 | ng    | #-0.01   |
| System Monitoring Compounds   |        |      |          |       |       |          |
| 4) 2-Fluorophenol             | 5.177  | 112  | 878      | 0.334 | ng    | 0.00     |
| 5) Phenol-d6                  | 6.758  | 99   | 923      | 0.333 | ng    | 0.00     |
| 8) Nitrobenzene-d5            | 8.728  | 82   | 885      | 0.340 | ng    | 0.00     |
| 11) 2-Methylnaphthalene-d10   | 11.950 | 152  | 2179     | 0.617 | ng    | 0.00     |
| 14) 2,4,6-Tribromophenol      | 15.730 | 330  | 175      | 0.316 | ng    | 0.00     |
| 15) 2-Fluorobiphenyl          | 12.842 | 172  | 2000     | 0.357 | ng    | 0.00     |
| 27) Fluoranthene-d10          | 19.012 | 212  | 1905     | 0.323 | ng    | 0.00     |
| 31) Terphenyl-d14             | 19.625 | 244  | 1269     | 0.359 | ng    | 0.00     |
| Target Compounds              |        |      |          |       |       |          |
| 2) 1,4-Dioxane                | 3.104  | 88   | 411      | 0.280 | ng    | # 1      |
| 3) n-Nitrosodimethylamine     | 3.415  | 42   | 1162     | 0.347 | ng    | # 98     |
| 6) bis(2-Chloroethyl)ether    | 7.011  | 93   | 840      | 0.339 | ng    | 98       |
| 9) Naphthalene                | 10.404 | 128  | 2636     | 0.346 | ng    | 99       |
| 10) Hexachlorobutadiene       | 10.692 | 225  | 689      | 0.372 | ng    | # 100    |
| 12) 2-Methylnaphthalene       | 12.026 | 142  | 1469     | 0.317 | ng    | 98       |
| 16) Acenaphthylene            | 13.945 | 152  | 2403     | 0.368 | ng    | 99       |
| 17) Acenaphthene              | 14.288 | 154  | 1450     | 0.344 | ng    | 98       |
| 18) Fluorene                  | 15.282 | 166  | 1824     | 0.337 | ng    | 99       |
| 20) 4,6-Dinitro-2-methylph... | 15.378 | 198  | 199      | 0.452 | ng    | # 82     |
| 21) 4-Bromophenyl-phenylether | 16.177 | 248  | 520      | 0.354 | ng    | 88       |
| 22) Hexachlorobenzene         | 16.288 | 284  | 639      | 0.375 | ng    | 97       |
| 23) Atrazine                  | 16.462 | 200  | 174      | 0.133 | ng    | # 79     |
| 24) Pentachlorophenol         | 16.636 | 266  | 563      | 0.674 | ng    | 98       |
| 25) Phenanthrene              | 17.008 | 178  | 2535     | 0.354 | ng    | 98       |
| 26) Anthracene                | 17.108 | 178  | 2265     | 0.346 | ng    | 98       |
| 28) Fluoranthene              | 19.040 | 202  | 2616     | 0.312 | ng    | 98       |
| 30) Pyrene                    | 19.407 | 202  | 2606     | 0.354 | ng    | 99       |
| 32) Benzo(a)anthracene        | 21.152 | 228  | 1822     | 0.345 | ng    | 97       |
| 33) Chrysene                  | 21.206 | 228  | 2488     | 0.378 | ng    | 98       |
| 34) Bis(2-ethylhexyl)phtha... | 21.099 | 149  | 1409     | 0.358 | ng    | 98       |
| 36) Indeno(1,2,3-cd)pyrene    | 25.540 | 276  | 2342     | 0.455 | ng    | 98       |
| 37) Benzo(b)fluoranthene      | 22.702 | 252  | 1986     | 0.425 | ng    | 95       |
| 38) Benzo(k)fluoranthene      | 22.745 | 252  | 2165     | 0.402 | ng    | 96       |
| 39) Benzo(a)pyrene            | 23.260 | 252  | 1765     | 0.420 | ng    | 93       |
| 40) Dibenzo(a,h)anthracene    | 25.558 | 278  | 1744     | 0.446 | ng    | 94       |
| 41) Benzo(g,h,i)perylene      | 26.210 | 276  | 2014     | 0.422 | ng    | 95       |

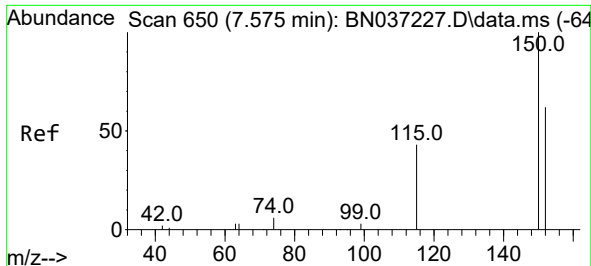
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\svoasrv\HPCHEM1\BNA\_N\Data\BN061325\  
Data File : BN037281.D  
Acq On : 15 Jun 2025 03:18  
Operator : RC/JU  
Sample : PB168476BSD  
Misc :  
ALS Vial : 60 Sample Multiplier: 1

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

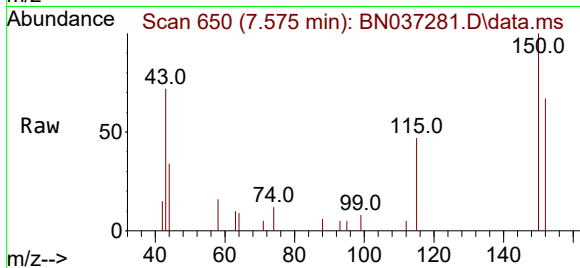
Quant Time: Jun 16 02:47:33 2025  
Quant Method : Z:\svoasrv\HPCHEM1\BNA\_N\Methods\8270-SIM-BN061325.M  
Quant Title : ASP BNA STANDARDS FOR 5 POINT CALIBRATION  
QLast Update : Fri Jun 13 18:43:34 2025  
Response via : Initial Calibration





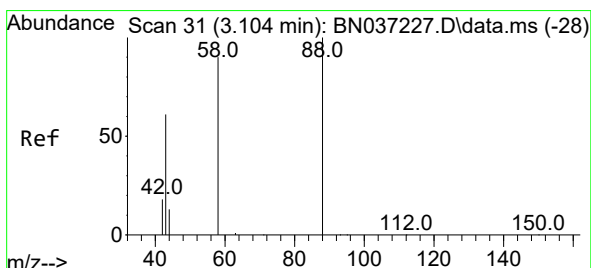
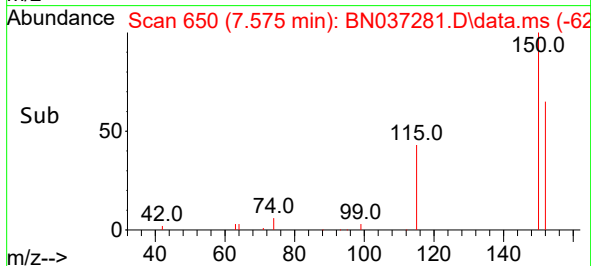
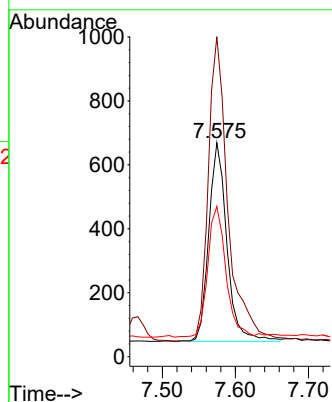
#1  
 1,4-Dichlorobenzene-d4  
 Concen: 0.400 ng  
 RT: 7.575 min Scan# 61  
 Delta R.T. -0.000 min  
 Lab File: BN037281.D  
 Acq: 15 Jun 2025 03:18

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168476BSD



Tgt Ion:152 Resp: 1070  

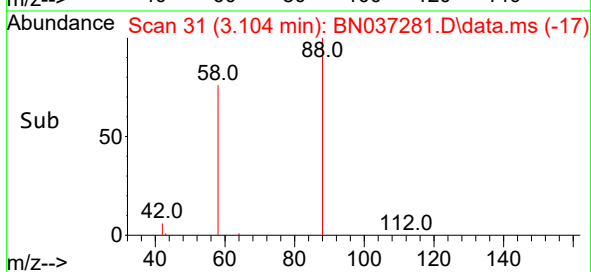
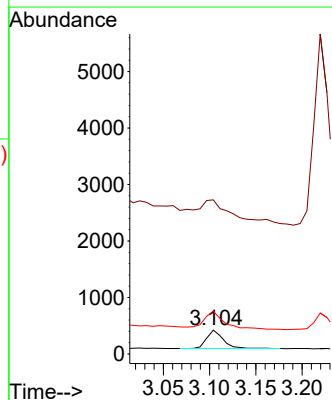
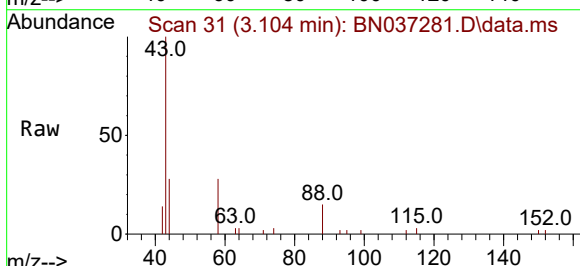
| Ion | Ratio | Lower | Upper |
|-----|-------|-------|-------|
| 152 | 100   |       |       |
| 150 | 149.6 | 125.2 | 187.8 |
| 115 | 70.3  | 58.4  | 87.6  |

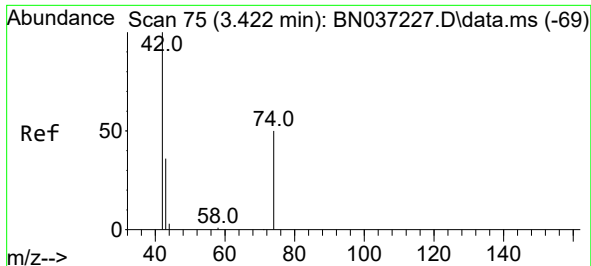


#2  
 1,4-Dioxane  
 Concen: 0.280 ng  
 RT: 3.104 min Scan# 31  
 Delta R.T. -0.000 min  
 Lab File: BN037281.D  
 Acq: 15 Jun 2025 03:18

Tgt Ion: 88 Resp: 411  

| Ion | Ratio | Lower | Upper  |
|-----|-------|-------|--------|
| 88  | 100   |       |        |
| 43  | 228.7 | 52.6  | 79.0#  |
| 58  | 118.2 | 73.5  | 110.3# |

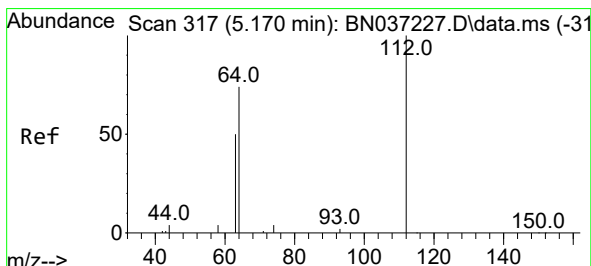
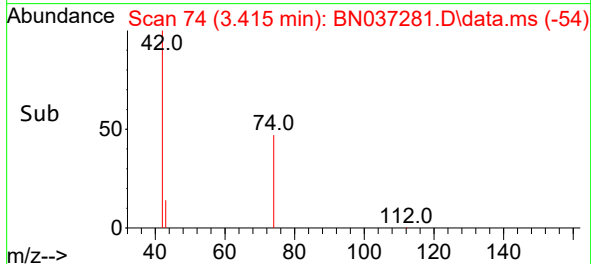
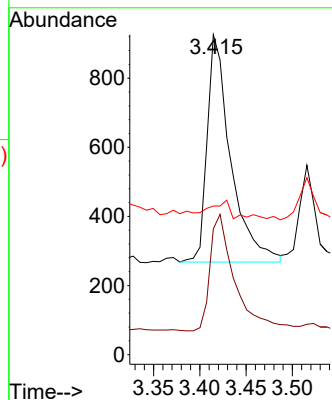
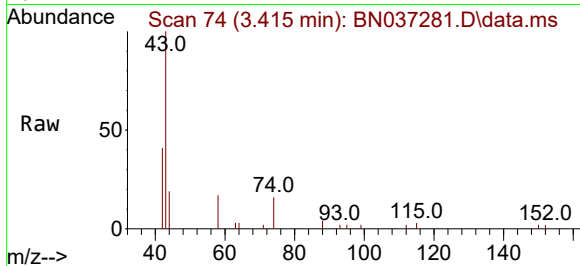




#3  
 n-Nitrosodimethylamine  
 Concen: 0.347 ng  
 RT: 3.415 min Scan# 74  
 Delta R.T. -0.007 min  
 Lab File: BN037281.D  
 Acq: 15 Jun 2025 03:18

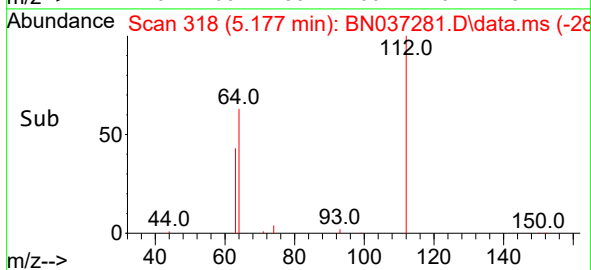
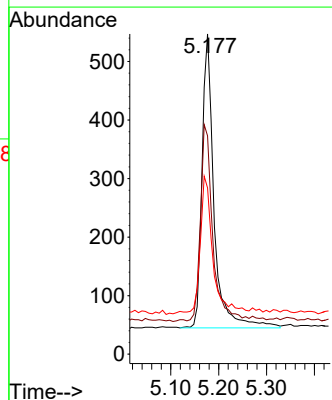
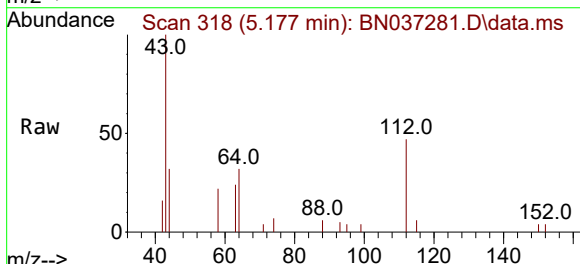
Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168476BSD

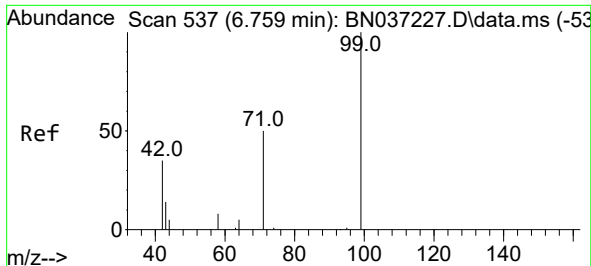
Tgt Ion: 42 Resp: 1162  
 Ion Ratio Lower Upper  
 42 100  
 74 54.3 44.6 66.8  
 44 5.7 3.5 5.3#



#4  
 2-Fluorophenol  
 Concen: 0.334 ng  
 RT: 5.177 min Scan# 318  
 Delta R.T. 0.007 min  
 Lab File: BN037281.D  
 Acq: 15 Jun 2025 03:18

Tgt Ion: 112 Resp: 878  
 Ion Ratio Lower Upper  
 112 100  
 64 68.8 57.2 85.8  
 63 49.0 39.8 59.6

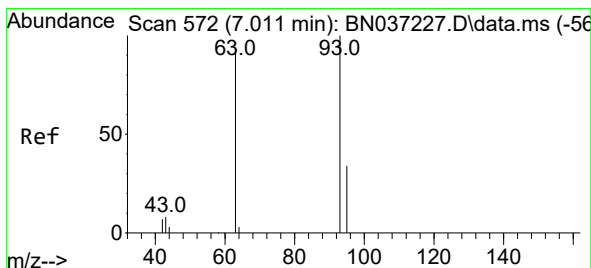
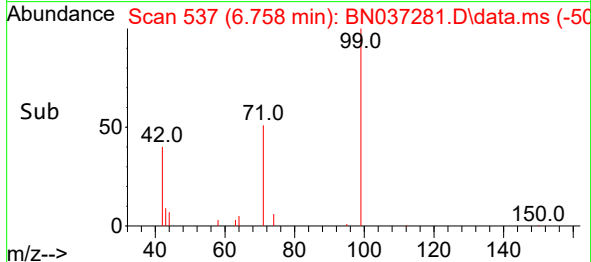
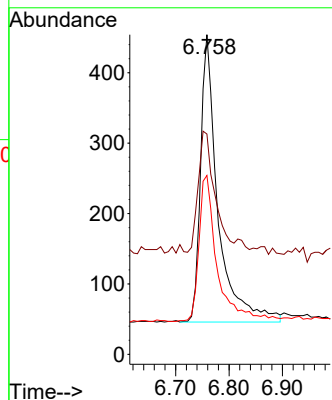
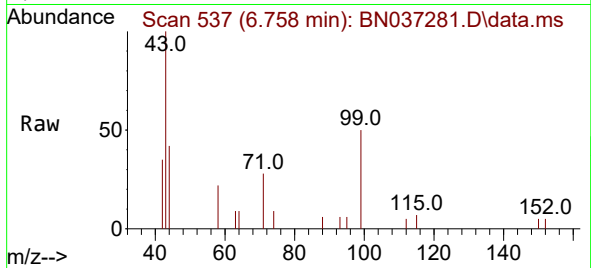




#5  
Phenol-d6  
Concen: 0.333 ng  
RT: 6.758 min Scan# 51  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

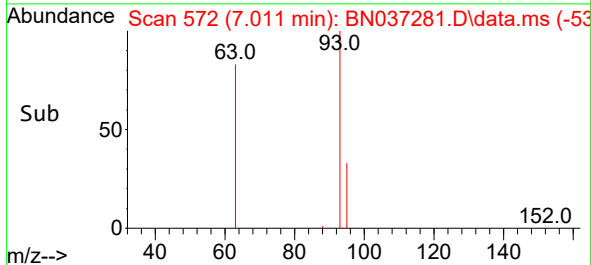
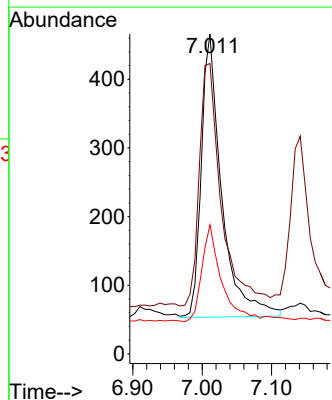
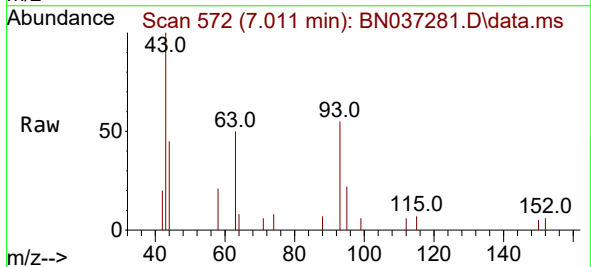
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 99    | Resp: | 923   |
| Ion      | Ratio | Lower | Upper |
| 99       | 100   |       |       |
| 42       | 40.3  | 36.2  | 54.4  |
| 71       | 53.3  | 42.4  | 63.6  |

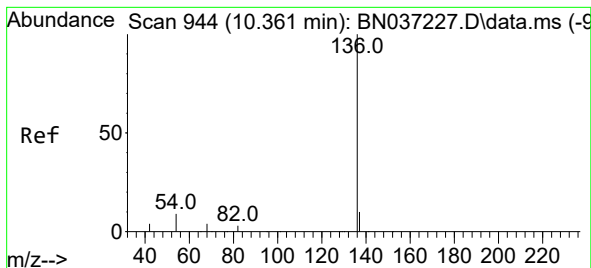


#6  
bis(2-Chloroethyl)ether  
Concen: 0.339 ng  
RT: 7.011 min Scan# 572  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

|          |       |       |       |
|----------|-------|-------|-------|
| Tgt Ion: | 93    | Resp: | 840   |
| Ion      | Ratio | Lower | Upper |
| 93       | 100   |       |       |
| 63       | 92.6  | 75.2  | 112.8 |
| 95       | 33.0  | 28.3  | 42.5  |







#7

Naphthalene-d8

Concen: 0.400 ng

RT: 10.351 min Scan# 944

Delta R.T. -0.011 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Instrument :

BNA\_N

ClientSampleId :

PB168476BSD

Tgt Ion:136 Resp: 2630

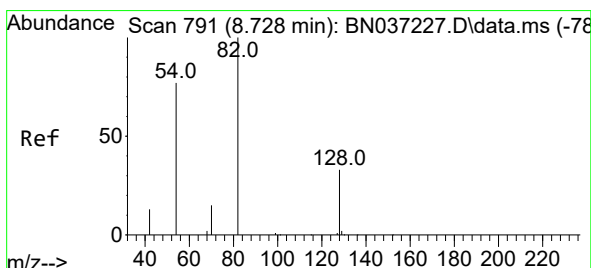
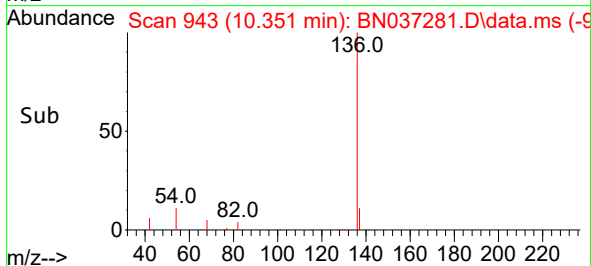
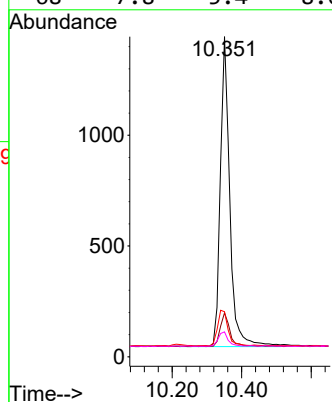
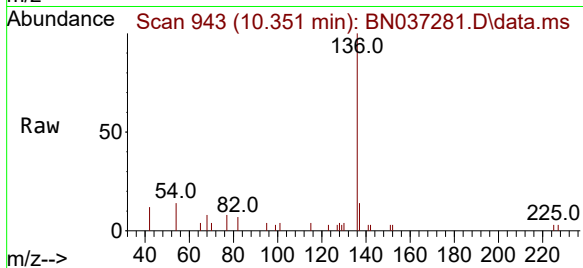
Ion Ratio Lower Upper

136 100

137 13.7 10.6 15.8

54 14.0 9.2 13.8#

68 7.8 5.4 8.0



#8

Nitrobenzene-d5

Concen: 0.340 ng

RT: 8.728 min Scan# 791

Delta R.T. -0.000 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

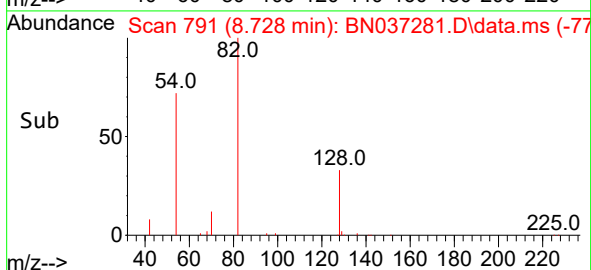
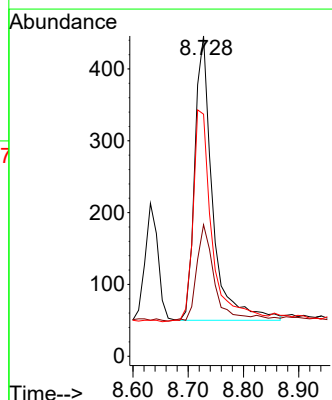
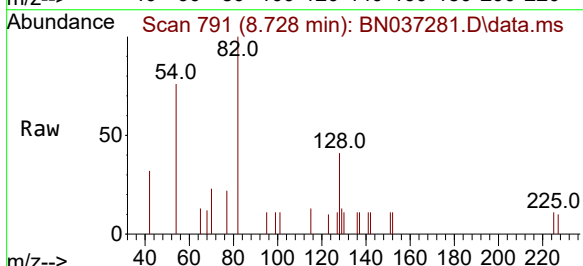
Tgt Ion: 82 Resp: 885

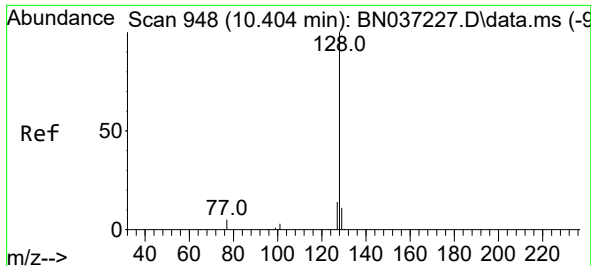
Ion Ratio Lower Upper

82 100

128 41.0 31.2 46.8

54 75.6 63.3 94.9

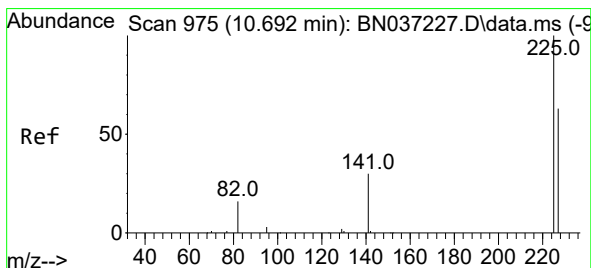
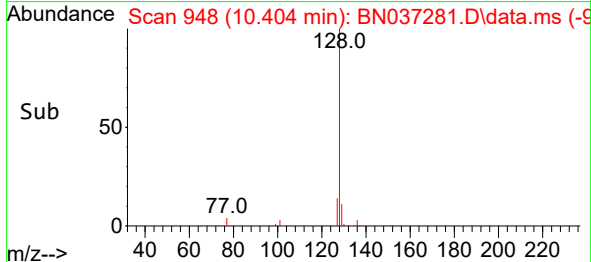
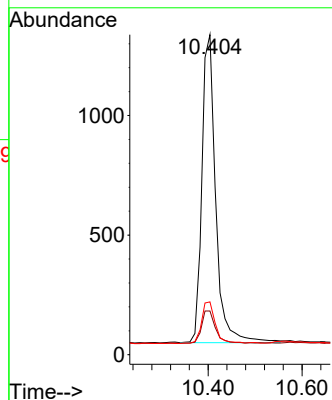
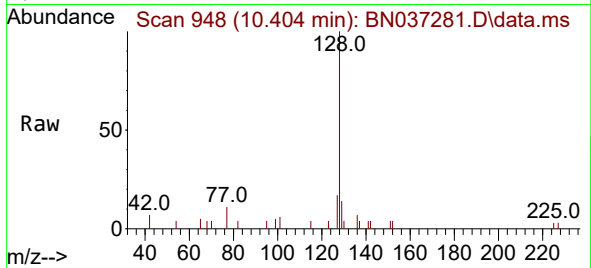




#9  
Naphthalene  
Concen: 0.346 ng  
RT: 10.404 min Scan# 948  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

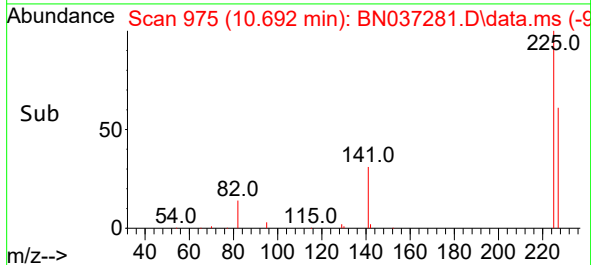
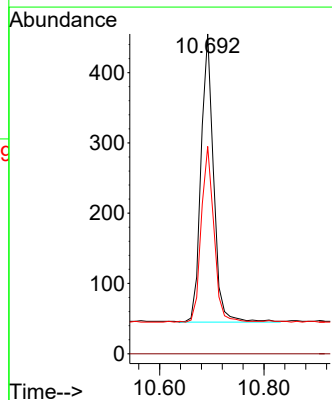
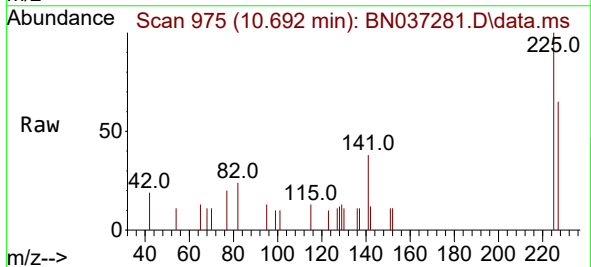
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

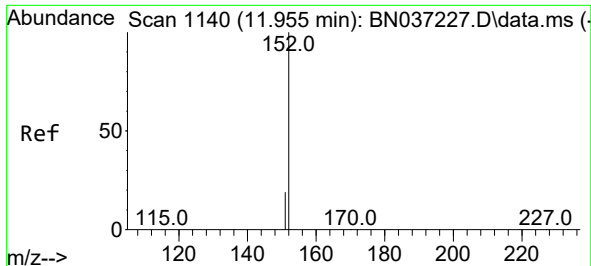
Tgt Ion:128 Resp: 2636  
Ion Ratio Lower Upper  
128 100  
129 13.7 10.7 16.1  
127 16.5 12.6 19.0



#10  
Hexachlorobutadiene  
Concen: 0.372 ng  
RT: 10.692 min Scan# 975  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Tgt Ion:225 Resp: 689  
Ion Ratio Lower Upper  
225 100  
223 0.0 0.0 0.0  
227 61.4 49.2 73.8





#11

2-Methylnaphthalene-d10

Concen: 0.617 ng

RT: 11.950 min Scan# 1139

Delta R.T. -0.005 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Instrument :

BNA\_N

ClientSampleId :

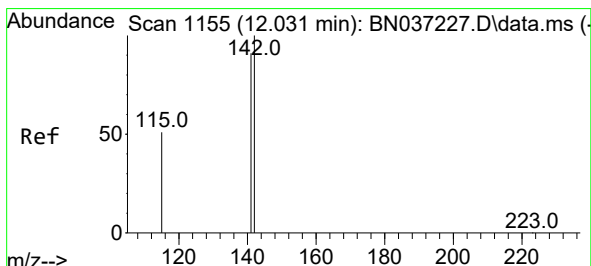
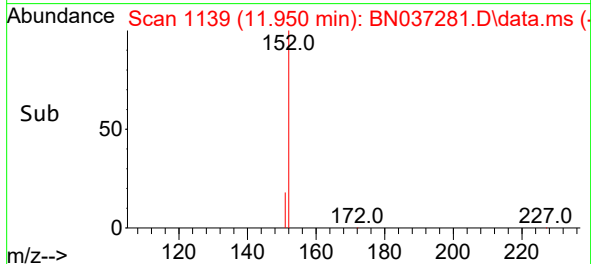
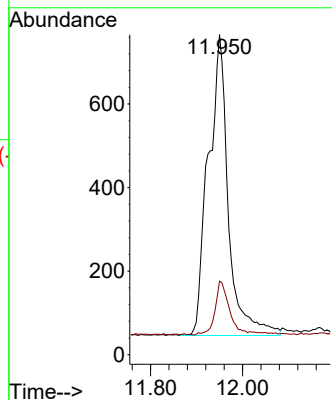
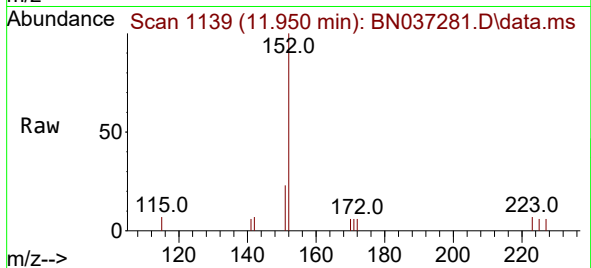
PB168476BSD

Tgt Ion:152 Resp: 2179

Ion Ratio Lower Upper

152 100

151 13.2 17.9 26.9#



#12

2-Methylnaphthalene

Concen: 0.317 ng

RT: 12.026 min Scan# 1154

Delta R.T. -0.005 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

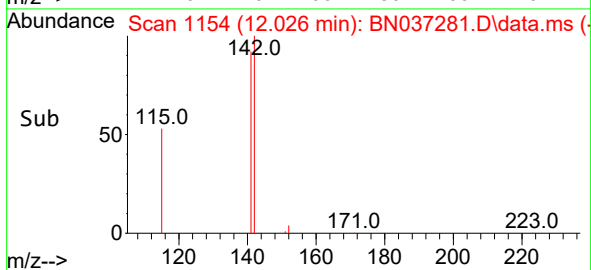
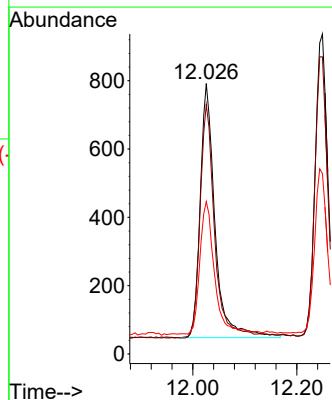
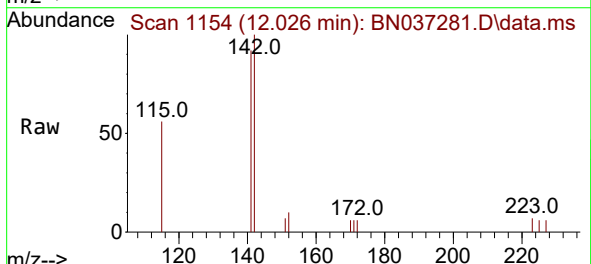
Tgt Ion:142 Resp: 1469

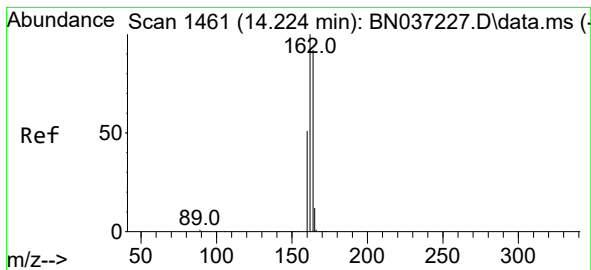
Ion Ratio Lower Upper

142 100

141 92.2 73.0 109.6

115 56.3 43.3 64.9

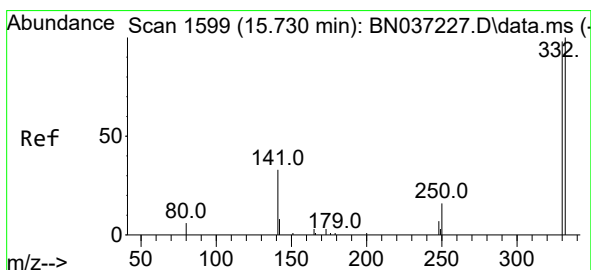
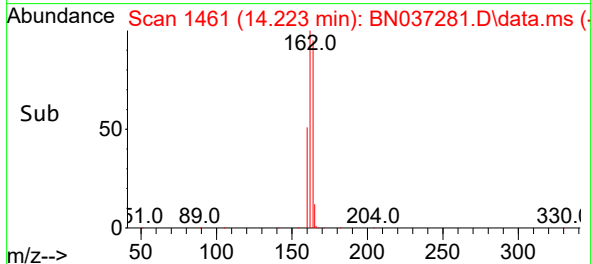
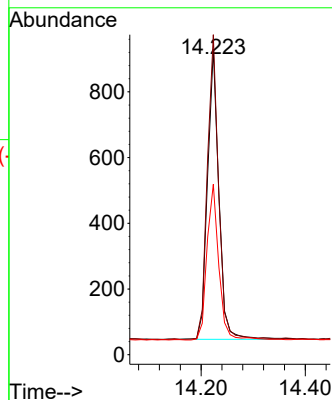
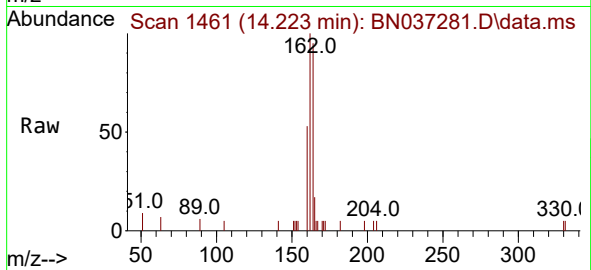




#13  
Acenaphthene-d10  
Concen: 0.400 ng  
RT: 14.223 min Scan# 1461  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

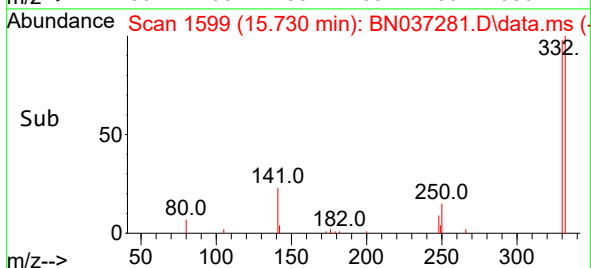
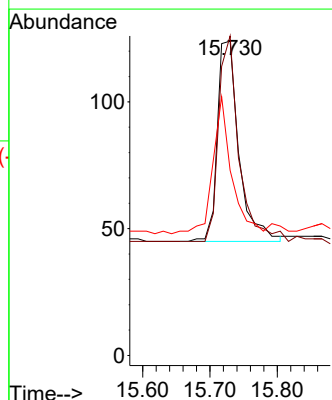
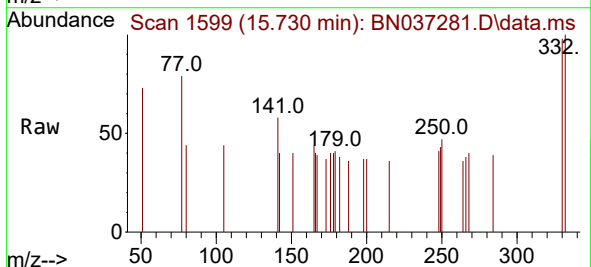
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

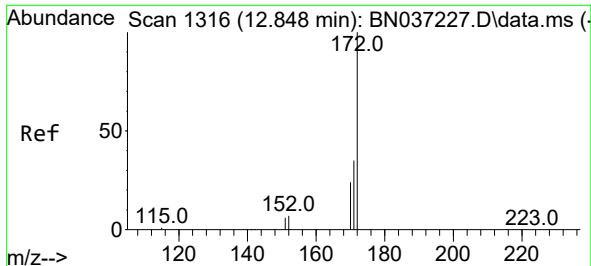
Tgt Ion:164 Resp: 1332  
Ion Ratio Lower Upper  
164 100  
162 104.7 86.7 130.1  
160 55.8 45.8 68.6



#14  
2,4,6-Tribromophenol  
Concen: 0.316 ng  
RT: 15.730 min Scan# 1599  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Tgt Ion:330 Resp: 175  
Ion Ratio Lower Upper  
330 100  
332 98.9 74.9 112.3  
141 59.4 45.1 67.7

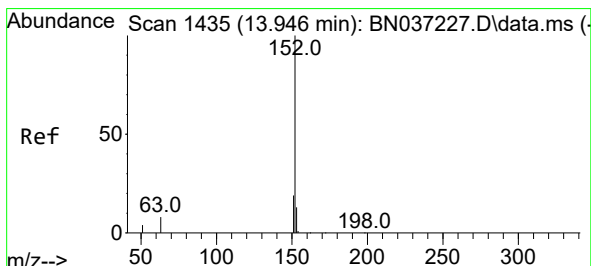
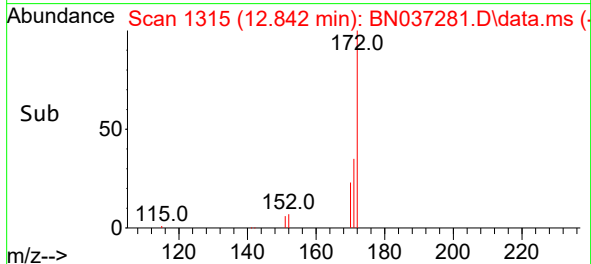
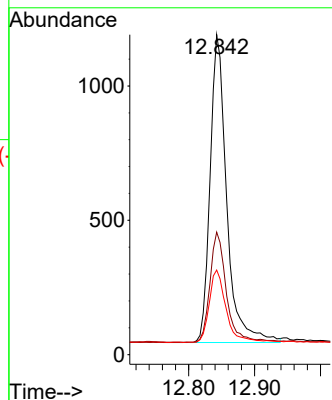
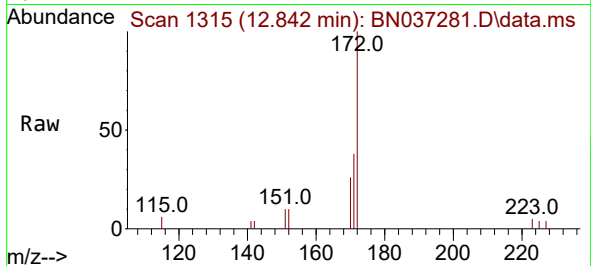




#15  
2-Fluorobiphenyl  
Concen: 0.357 ng  
RT: 12.842 min Scan# 11  
Delta R.T. -0.005 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

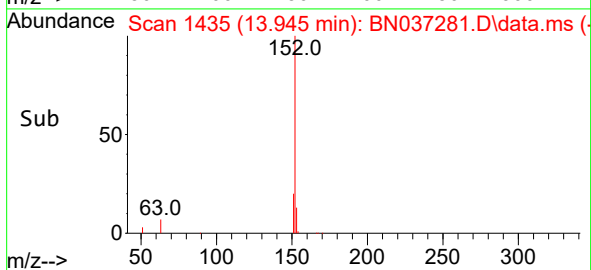
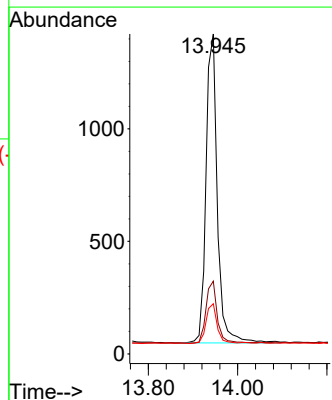
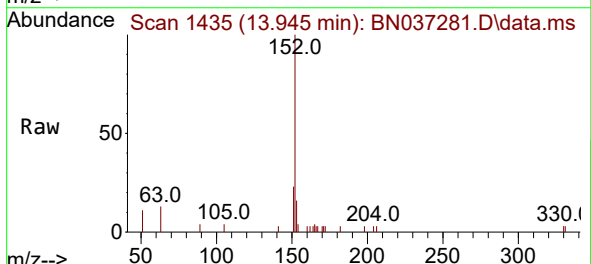
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

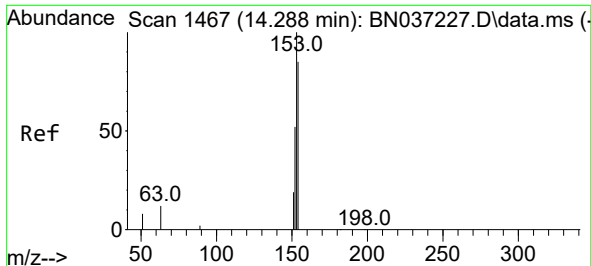
|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:172 | Resp: | 2000      |
| Ion Ratio   | Lower | Upper     |
| 172         | 100   |           |
| 171         | 38.3  | 29.8 44.8 |
| 170         | 26.4  | 21.1 31.7 |



#16  
Acenaphthylene  
Concen: 0.368 ng  
RT: 13.945 min Scan# 1435  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

|             |       |           |
|-------------|-------|-----------|
| Tgt Ion:152 | Resp: | 2403      |
| Ion Ratio   | Lower | Upper     |
| 152         | 100   |           |
| 151         | 19.8  | 15.7 23.5 |
| 153         | 13.0  | 10.7 16.1 |

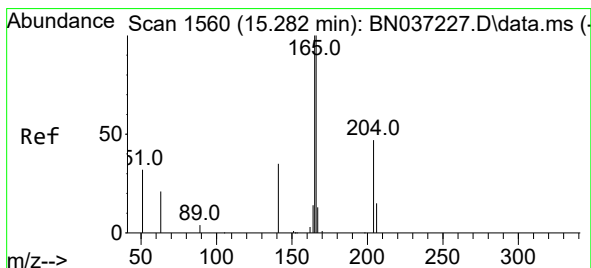
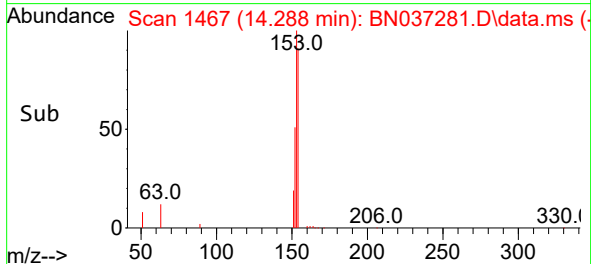
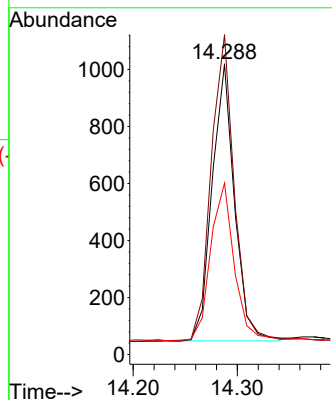
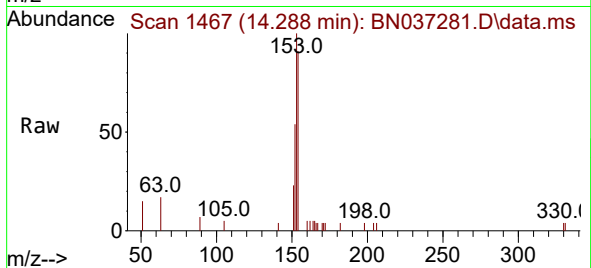




#17  
Acenaphthene  
Concen: 0.344 ng  
RT: 14.288 min Scan# 1467  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

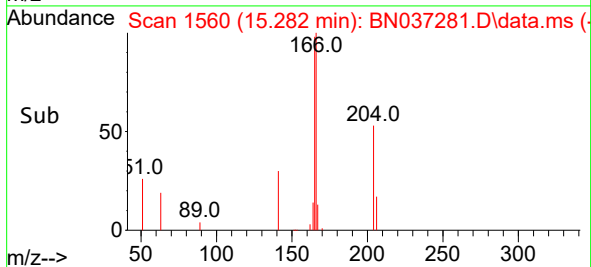
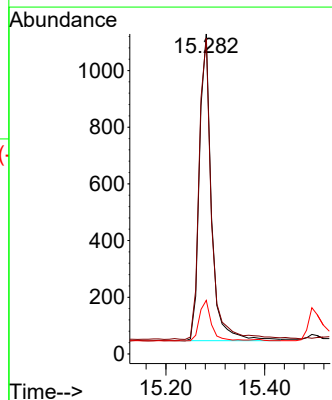
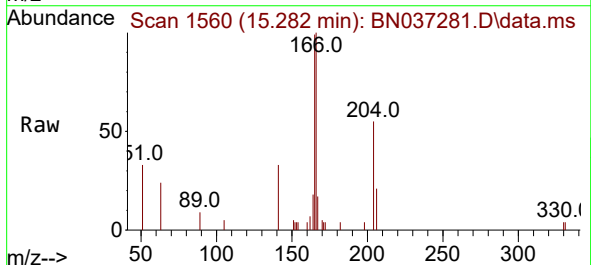
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

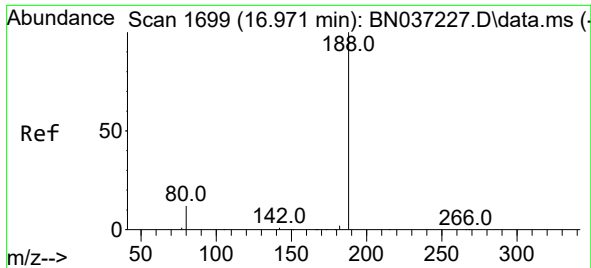
Tgt Ion:154 Resp: 1450  
Ion Ratio Lower Upper  
154 100  
153 116.8 94.6 141.8  
152 60.1 49.6 74.4



#18  
Fluorene  
Concen: 0.337 ng  
RT: 15.282 min Scan# 1560  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Tgt Ion:166 Resp: 1824  
Ion Ratio Lower Upper  
166 100  
165 101.3 79.8 119.6  
167 13.2 10.8 16.2

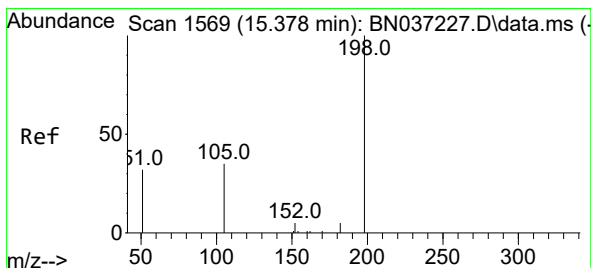
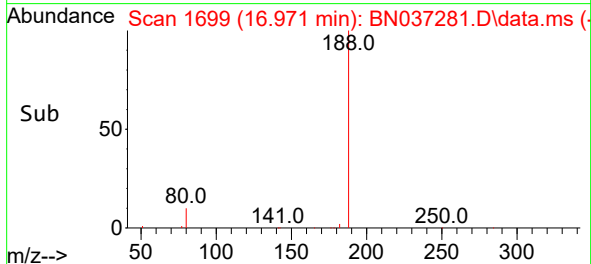
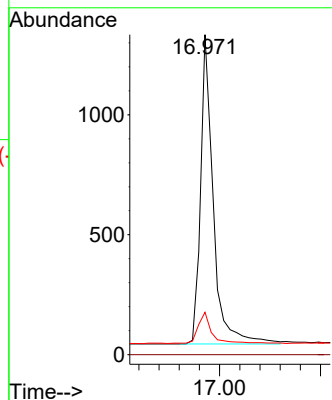
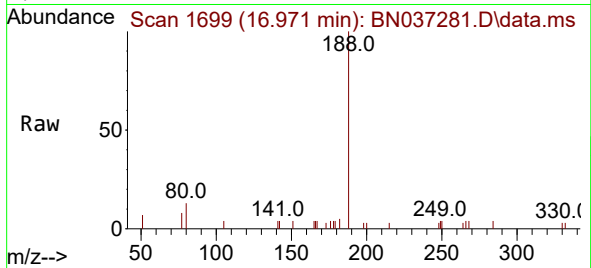




#19  
Phenanthrene-d10  
Concen: 0.400 ng  
RT: 16.971 min Scan# 1699  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

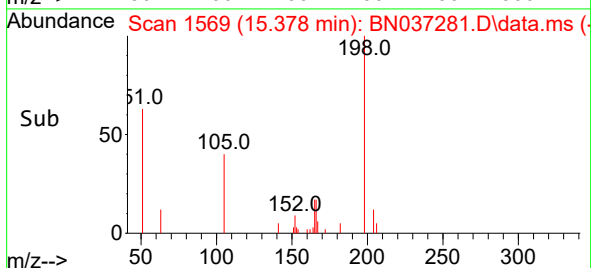
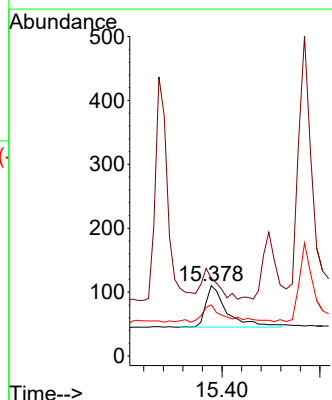
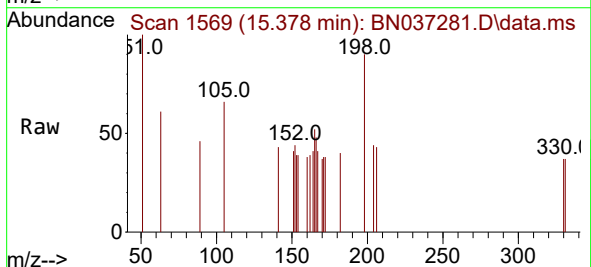
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

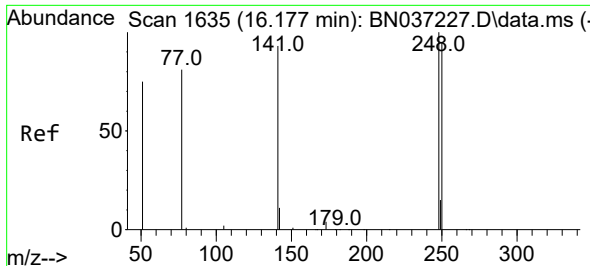
Tgt Ion:188 Resp: 2256  
Ion Ratio Lower Upper  
188 100  
94 0.0 0.0 0.0  
80 13.3 12.2 18.4



#20  
4,6-Dinitro-2-methylphenol  
Concen: 0.452 ng  
RT: 15.378 min Scan# 1569  
Delta R.T. 0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Tgt Ion:198 Resp: 199  
Ion Ratio Lower Upper  
198 100  
51 110.9 111.2 166.8#  
105 72.7 54.0 81.0

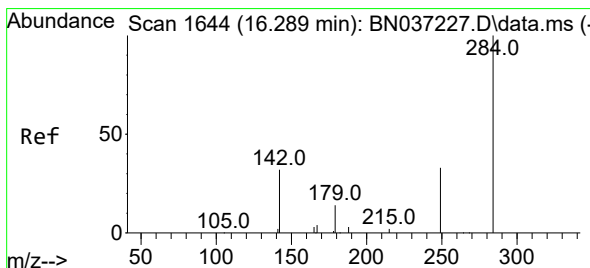
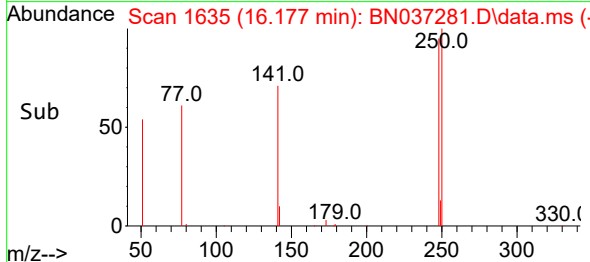
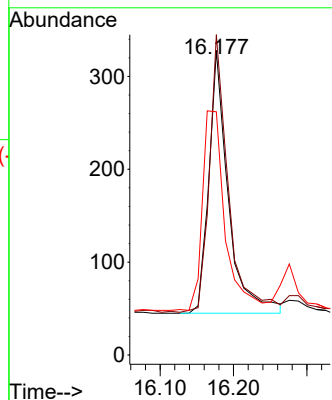
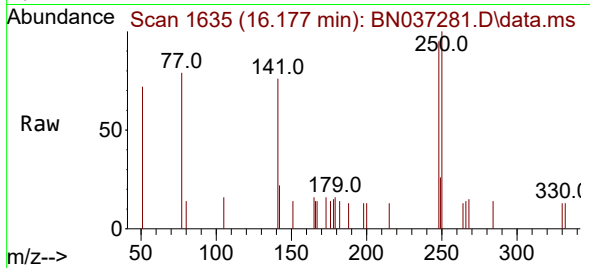




#21  
4-Bromophenyl-phenylether  
Concen: 0.354 ng  
RT: 16.177 min Scan# 1635  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

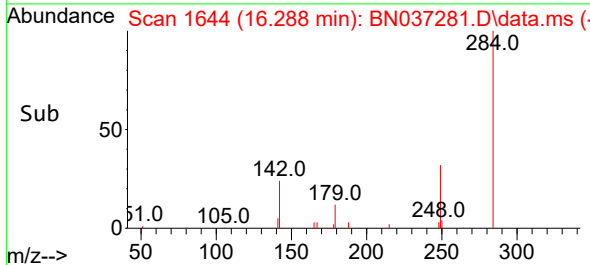
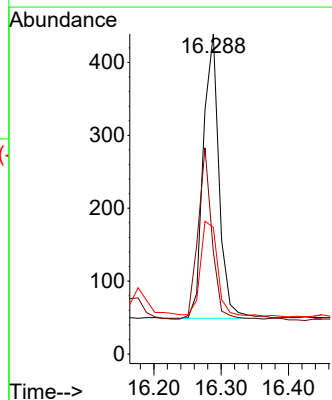
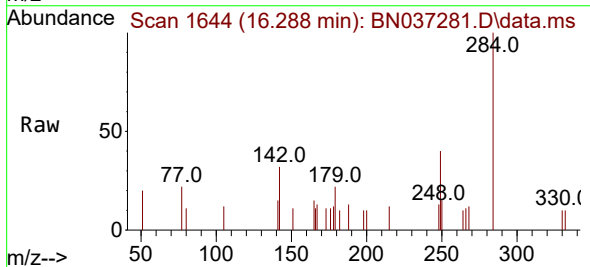
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

Tgt Ion:248 Resp: 520  
Ion Ratio Lower Upper  
248 100  
250 105.2 76.8 115.2  
141 79.9 75.6 113.4

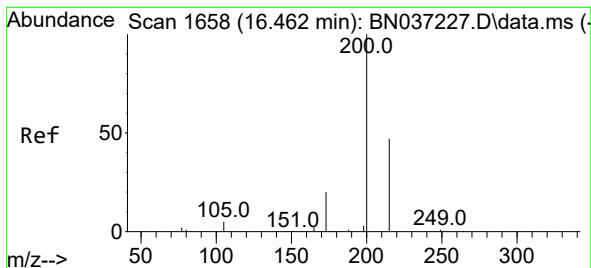


#22  
Hexachlorobenzene  
Concen: 0.375 ng  
RT: 16.288 min Scan# 1644  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Tgt Ion:284 Resp: 639  
Ion Ratio Lower Upper  
284 100  
142 53.4 43.8 65.6  
249 38.3 28.4 42.6







#23

Atrazine

Concen: 0.133 ng

RT: 16.462 min Scan# 1658

Delta R.T. -0.000 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

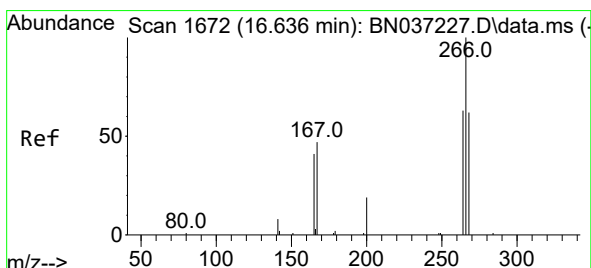
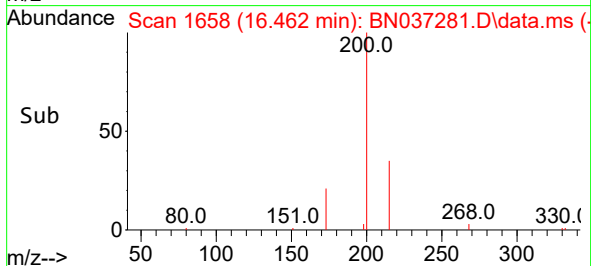
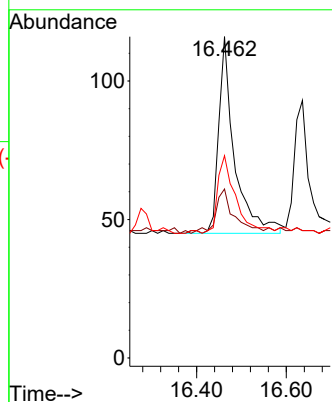
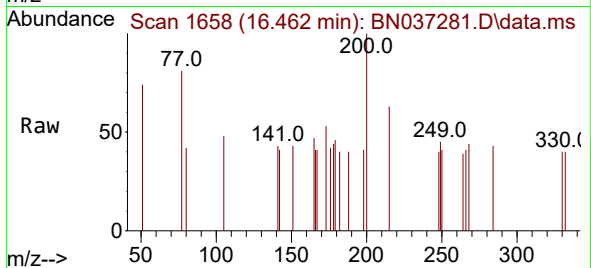
Instrument :

BNA\_N

ClientSampleId :

PB168476BSD

|           |       |       |       |
|-----------|-------|-------|-------|
| Tgt Ion:  | 200   | Resp: | 174   |
| Ion Ratio | Lower | Upper |       |
| 200       | 100   |       |       |
| 173       | 52.6  | 25.1  | 37.7# |
| 215       | 62.9  | 43.7  | 65.5  |



#24

Pentachlorophenol

Concen: 0.674 ng

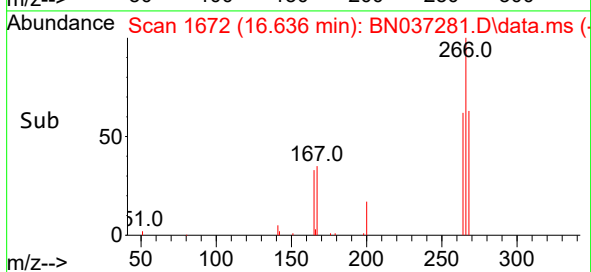
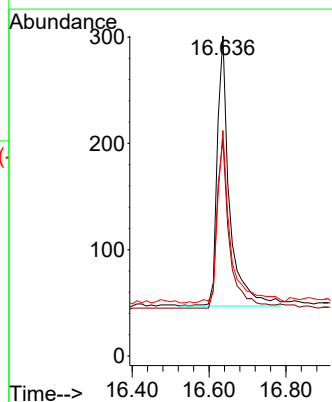
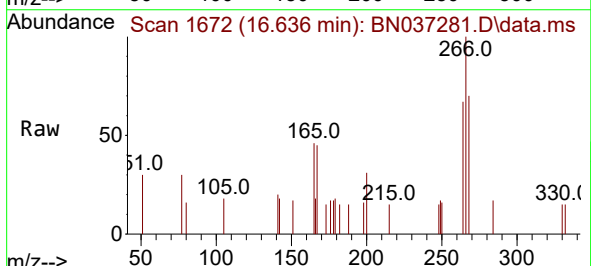
RT: 16.636 min Scan# 1672

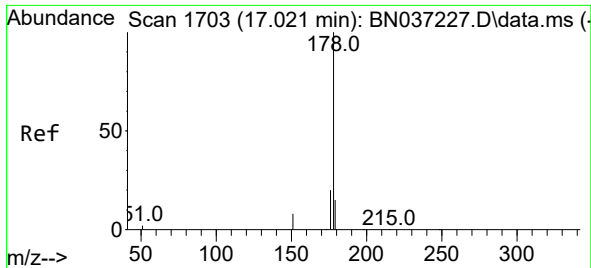
Delta R.T. -0.000 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 266   | Resp: | 563  |
| Ion Ratio | Lower | Upper |      |
| 266       | 100   |       |      |
| 264       | 63.2  | 49.2  | 73.8 |
| 268       | 65.7  | 53.4  | 80.2 |

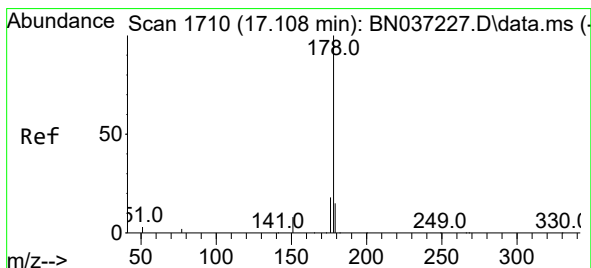
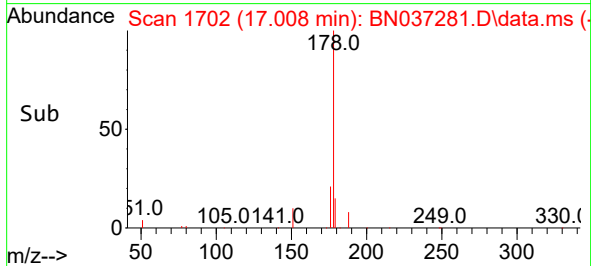
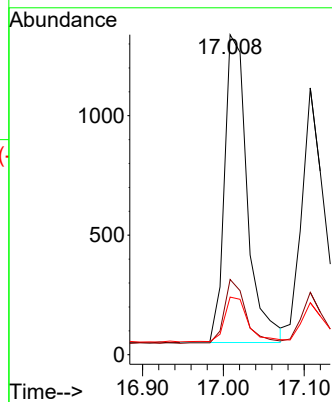
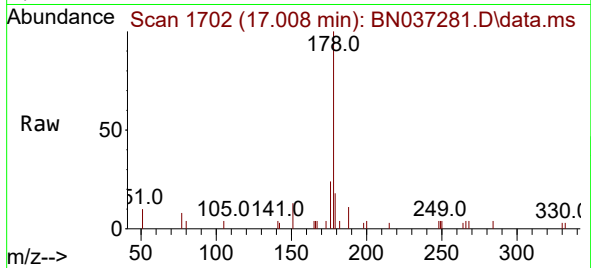




#25  
Phenanthrene  
Concen: 0.354 ng  
RT: 17.008 min Scan# 1702  
Delta R.T. -0.013 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

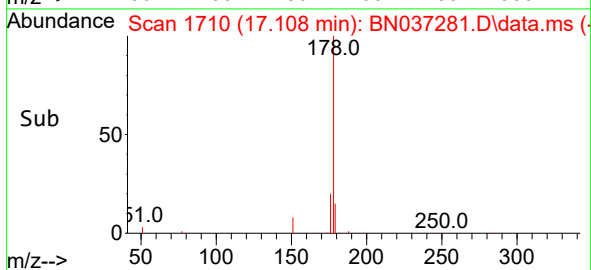
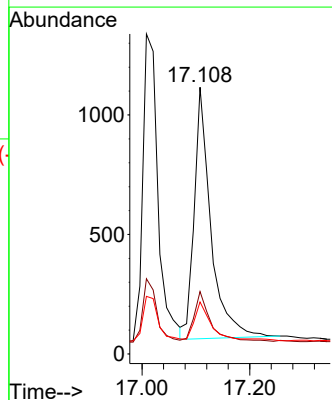
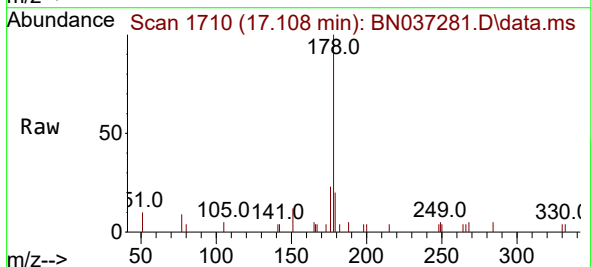
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

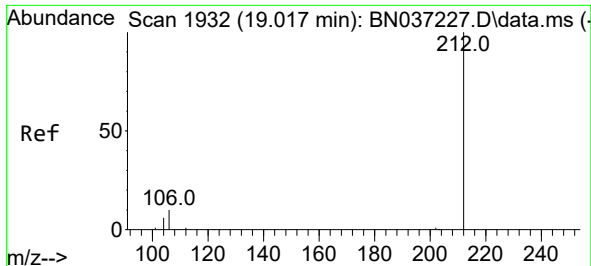
|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 2535 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 19.5  | 16.3  | 24.5 |
| 179       | 14.5  | 12.6  | 18.8 |



#26  
Anthracene  
Concen: 0.346 ng  
RT: 17.108 min Scan# 1710  
Delta R.T. -0.000 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

|           |       |       |      |
|-----------|-------|-------|------|
| Tgt Ion:  | 178   | Resp: | 2265 |
| Ion Ratio | Lower | Upper |      |
| 178       | 100   |       |      |
| 176       | 20.0  | 15.1  | 22.7 |
| 179       | 16.3  | 12.4  | 18.6 |

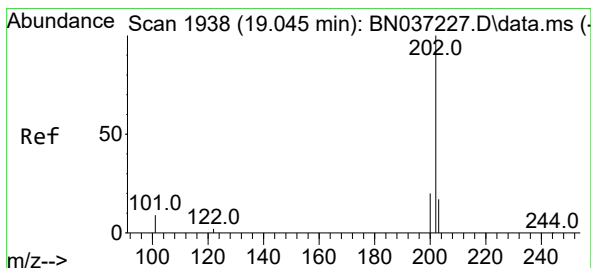
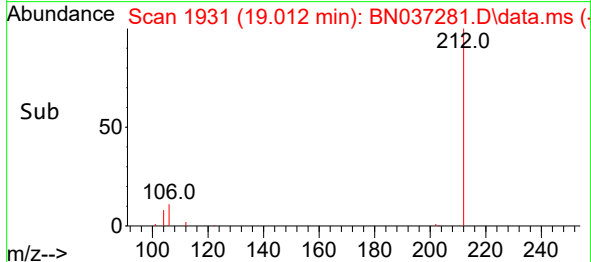
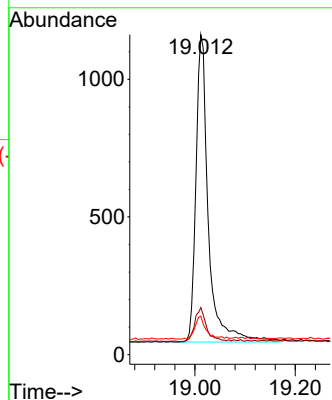
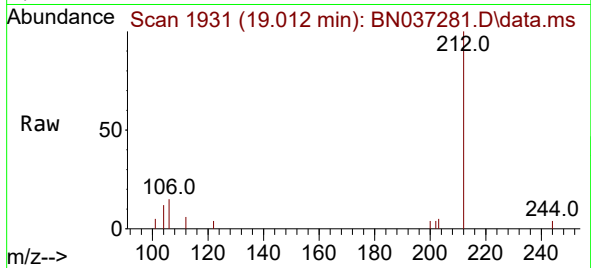




#27  
Fluoranthene-d10  
Concen: 0.323 ng  
RT: 19.012 min Scan# 1931  
Delta R.T. -0.005 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

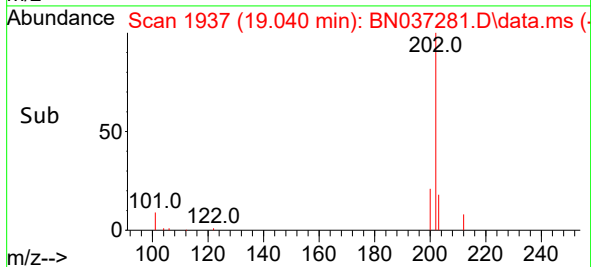
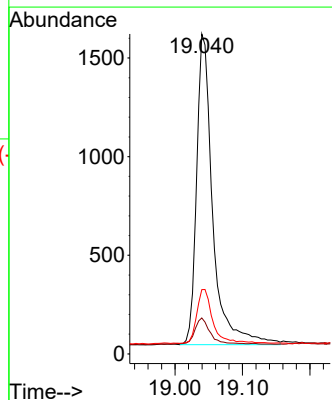
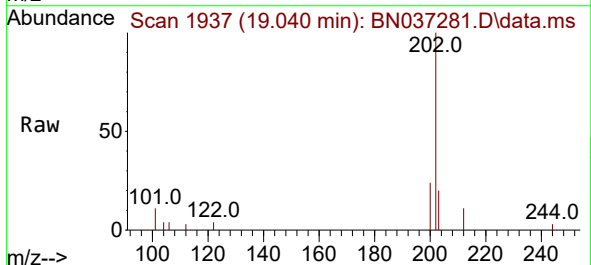
Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

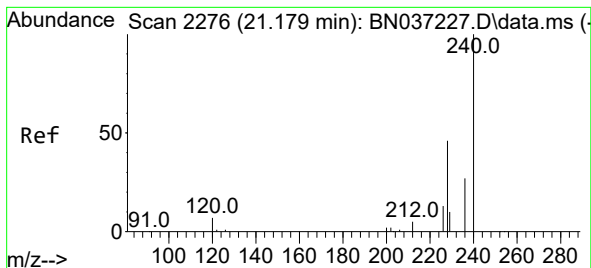
Tgt Ion:212 Resp: 1905  
Ion Ratio Lower Upper  
212 100  
106 10.3 9.3 13.9  
104 6.3 5.7 8.5



#28  
Fluoranthene  
Concen: 0.312 ng  
RT: 19.040 min Scan# 1937  
Delta R.T. -0.005 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Tgt Ion:202 Resp: 2616  
Ion Ratio Lower Upper  
202 100  
101 8.7 7.1 10.7  
203 17.4 13.0 19.6





#29

Chrysene-d12

Concen: 0.400 ng

RT: 21.170 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Instrument :

BNA\_N

ClientSampleId :

PB168476BSD

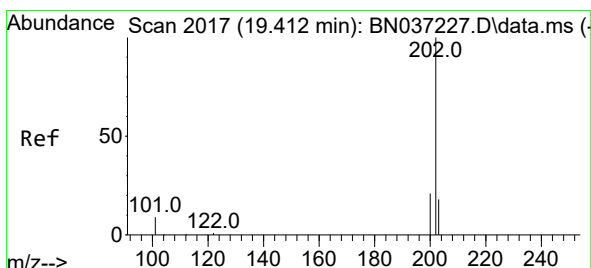
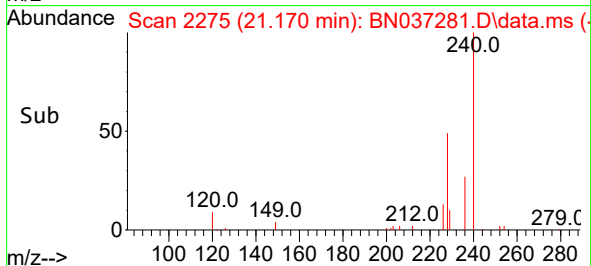
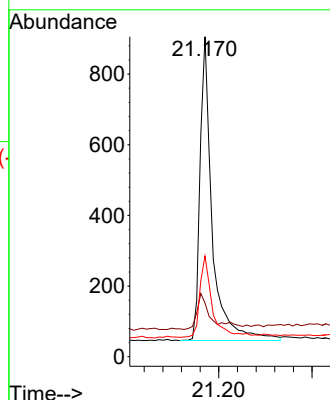
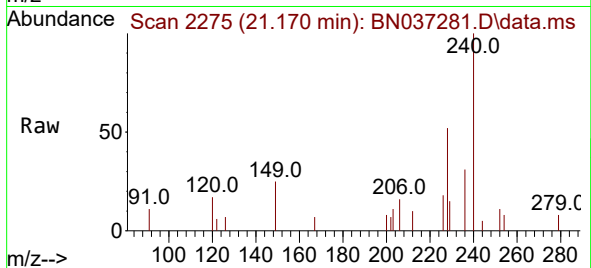
Tgt Ion:240 Resp: 1565

Ion Ratio Lower Upper

240 100

120 16.8 11.3 16.9

236 31.5 24.4 36.6



#30

Pyrene

Concen: 0.354 ng

RT: 19.407 min Scan# 2016

Delta R.T. -0.005 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

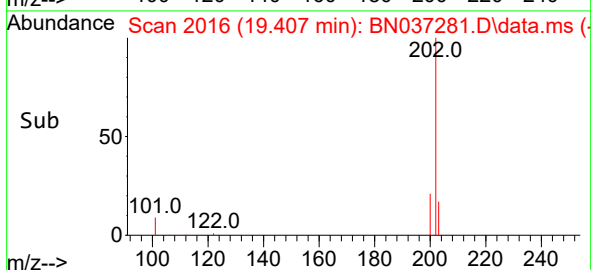
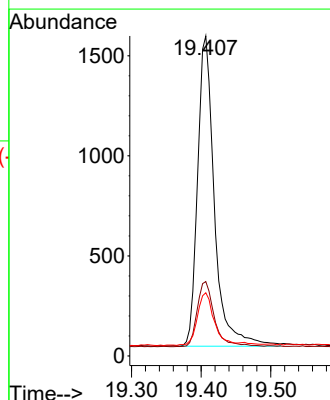
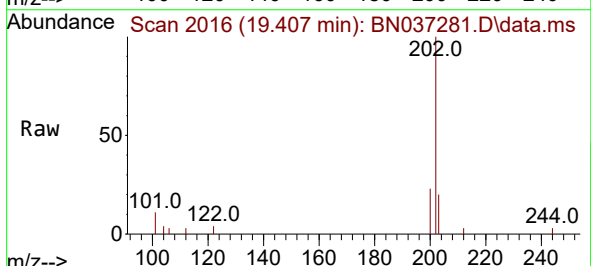
Tgt Ion:202 Resp: 2606

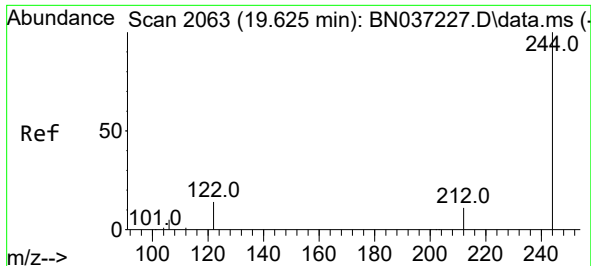
Ion Ratio Lower Upper

202 100

200 21.5 17.2 25.8

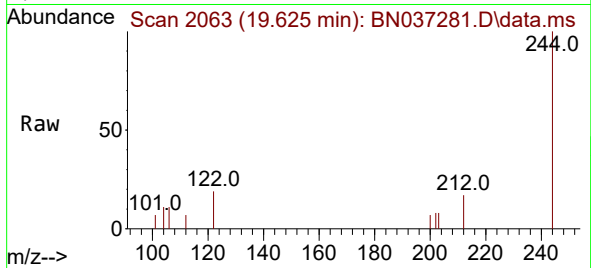
203 17.1 14.3 21.5



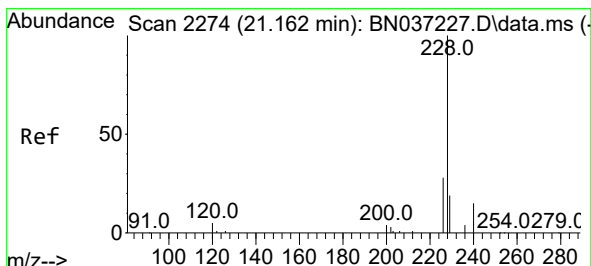
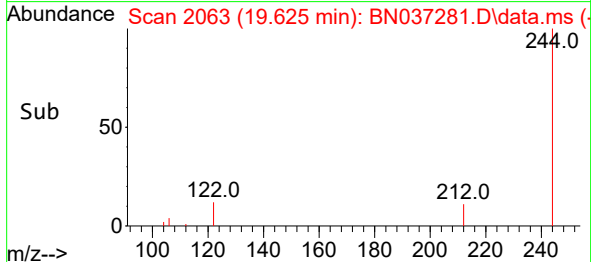
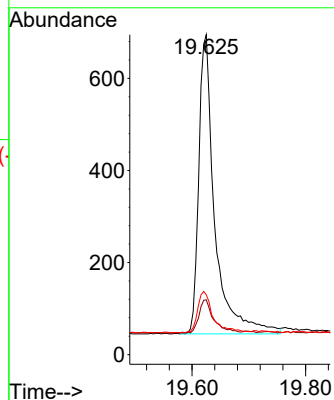


#31  
 Terphenyl-d14  
 Concen: 0.359 ng  
 RT: 19.625 min Scan# 2063  
 Delta R.T. -0.000 min  
 Lab File: BN037281.D  
 Acq: 15 Jun 2025 03:18

Instrument :  
 BNA\_N  
 ClientSampleId :  
 PB168476BSD

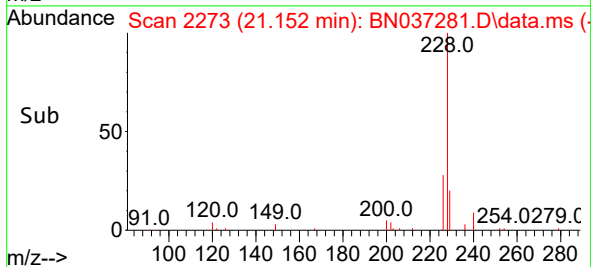
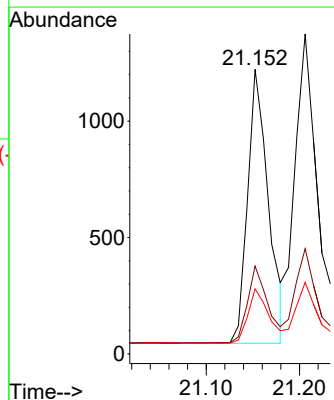
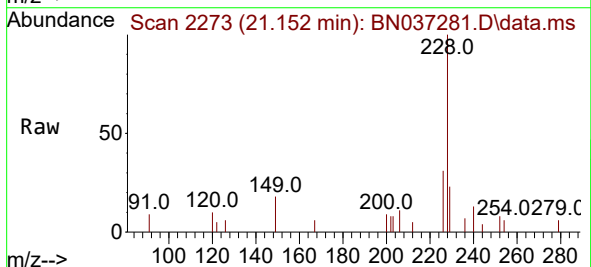


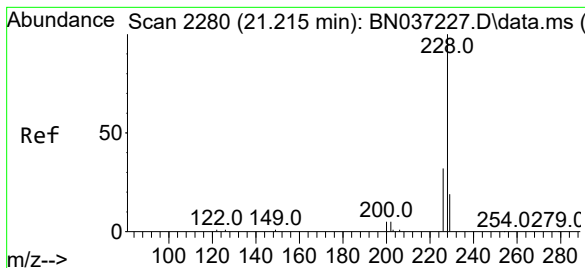
Tgt Ion:244 Resp: 1269  
 Ion Ratio Lower Upper  
 244 100  
 212 17.1 12.2 18.2  
 122 18.7 14.3 21.5



#32  
 Benzo(a)anthracene  
 Concen: 0.345 ng  
 RT: 21.152 min Scan# 2273  
 Delta R.T. -0.009 min  
 Lab File: BN037281.D  
 Acq: 15 Jun 2025 03:18

Tgt Ion:228 Resp: 1822  
 Ion Ratio Lower Upper  
 228 100  
 226 30.9 23.8 35.8  
 229 22.9 17.0 25.4





#33

Chrysene

Concen: 0.378 ng

RT: 21.206 min Scan# 21

Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

Instrument :

BNA\_N

ClientSampleId :

PB168476BSD

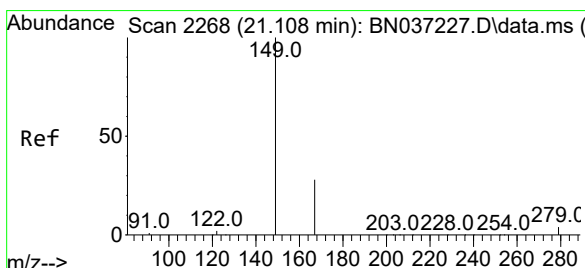
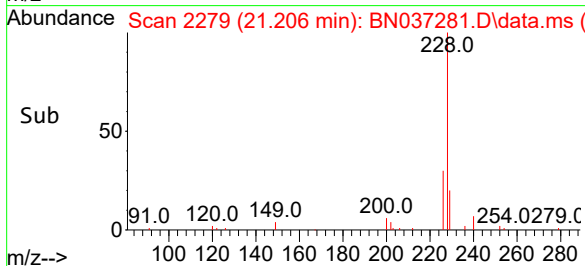
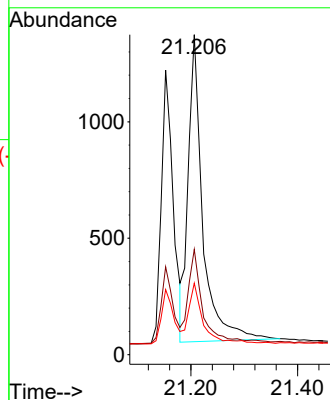
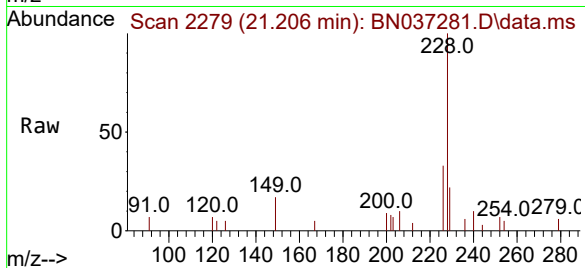
Tgt Ion:228 Resp: 2488

Ion Ratio Lower Upper

228 100

226 32.9 25.8 38.6

229 22.3 17.0 25.4



#34

Bis(2-ethylhexyl)phthalate

Concen: 0.358 ng

RT: 21.099 min Scan# 2267

Delta R.T. -0.009 min

Lab File: BN037281.D

Acq: 15 Jun 2025 03:18

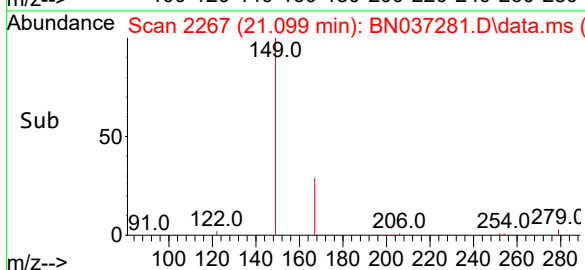
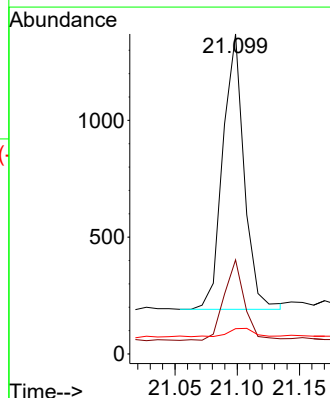
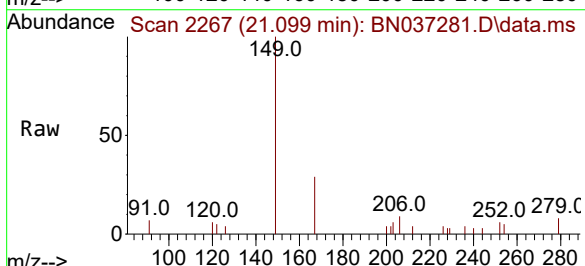
Tgt Ion:149 Resp: 1409

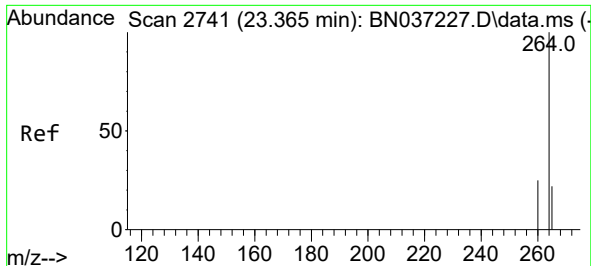
Ion Ratio Lower Upper

149 100

167 28.0 21.3 31.9

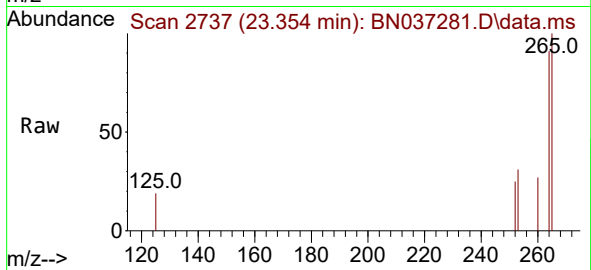
279 3.7 3.3 4.9



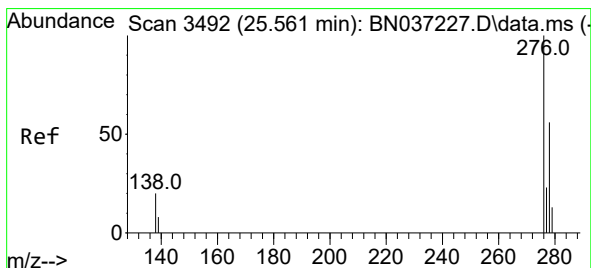
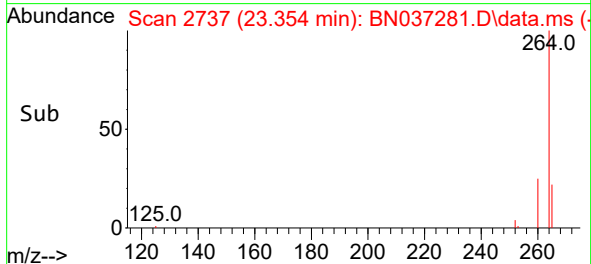
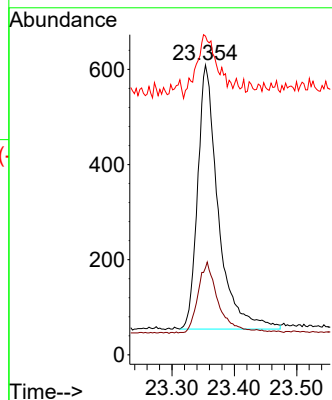


#35  
Perylene-d12  
Concen: 0.400 ng  
RT: 23.354 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

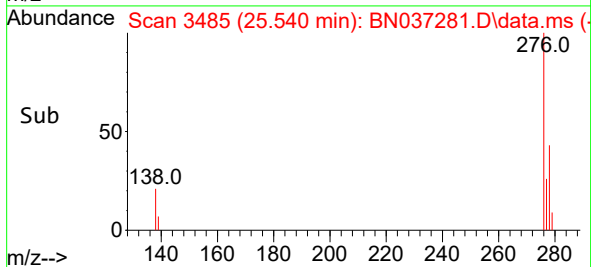
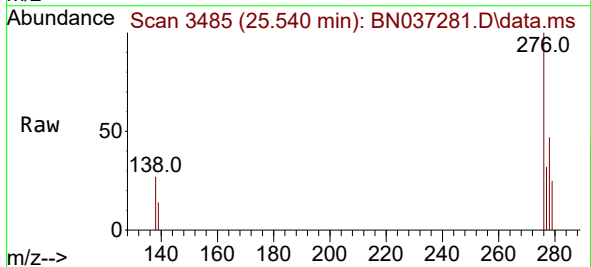
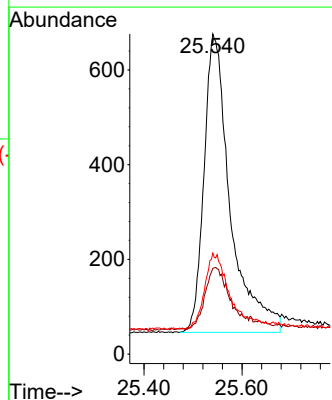


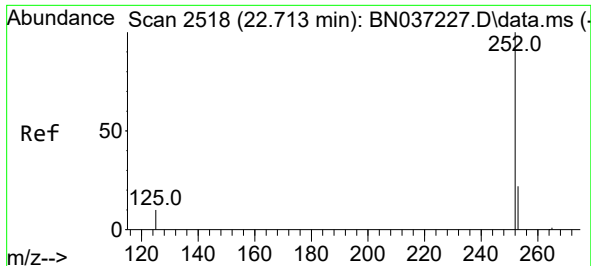
Tgt Ion:264 Resp: 1276  
Ion Ratio Lower Upper  
264 100  
260 30.0 22.8 34.2  
265 110.0 66.4 99.6#



#36  
Indeno(1,2,3-cd)pyrene  
Concen: 0.455 ng  
RT: 25.540 min Scan# 3485  
Delta R.T. -0.021 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

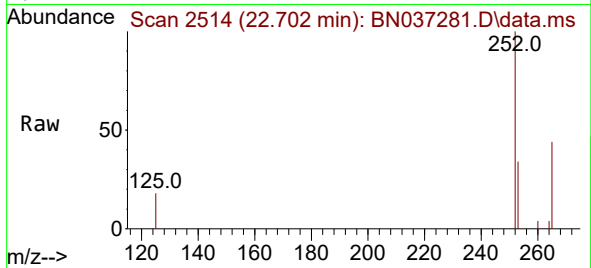
Tgt Ion:276 Resp: 2342  
Ion Ratio Lower Upper  
276 100  
138 19.6 16.8 25.2  
277 24.8 19.5 29.3



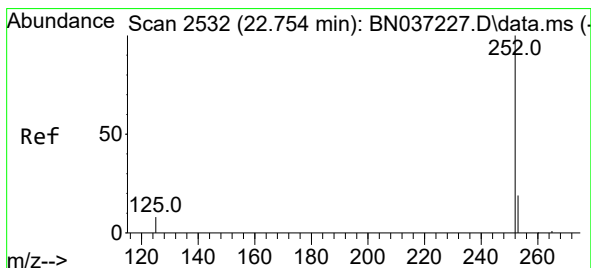
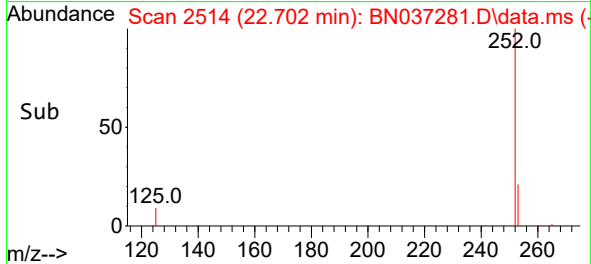
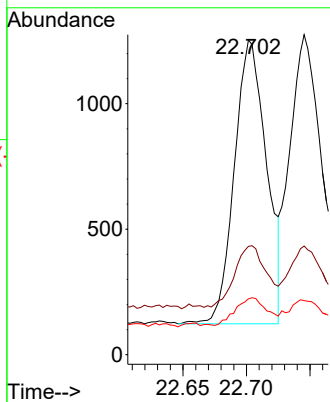


#37  
Benzo(b)fluoranthene  
Concen: 0.425 ng  
RT: 22.702 min Scan# 2514  
Delta R.T. -0.012 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

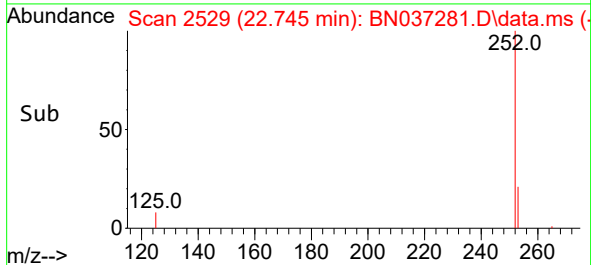
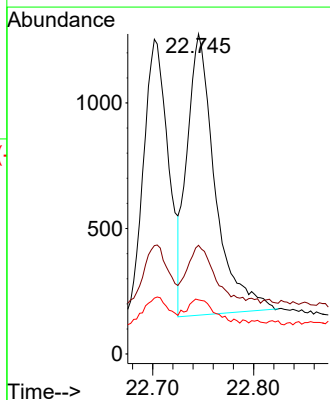
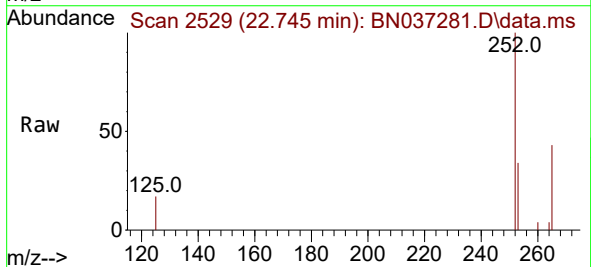


Tgt Ion:252 Resp: 1986  
Ion Ratio Lower Upper  
252 100  
253 34.4 24.9 37.3  
125 17.8 12.9 19.3

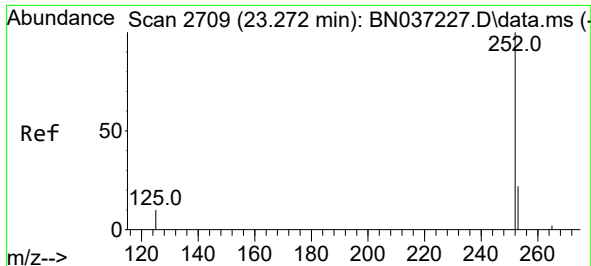


#38  
Benzo(k)fluoranthene  
Concen: 0.402 ng  
RT: 22.745 min Scan# 2529  
Delta R.T. -0.009 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Tgt Ion:252 Resp: 2165  
Ion Ratio Lower Upper  
252 100  
253 34.0 24.6 37.0  
125 16.9 13.4 20.2

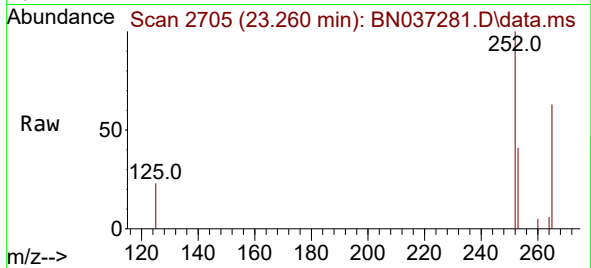




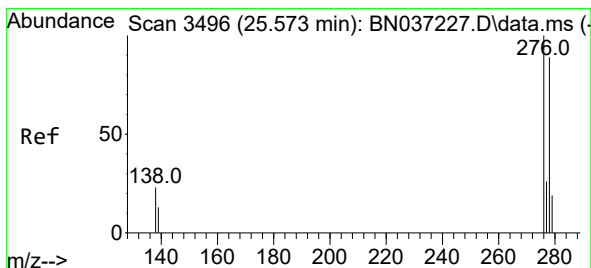
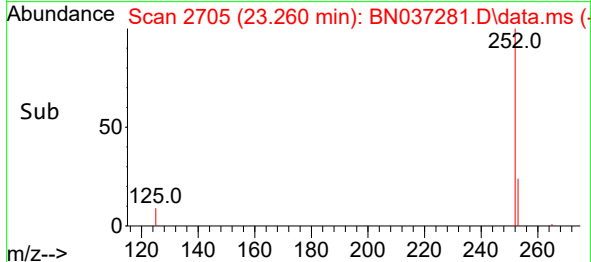
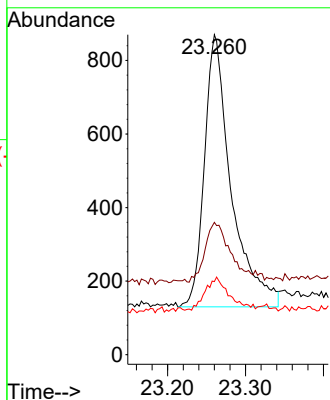


#39  
Benzo(a)pyrene  
Concen: 0.420 ng  
RT: 23.260 min Scan# 21  
Delta R.T. -0.012 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD

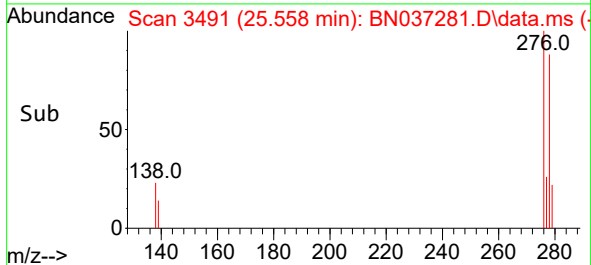
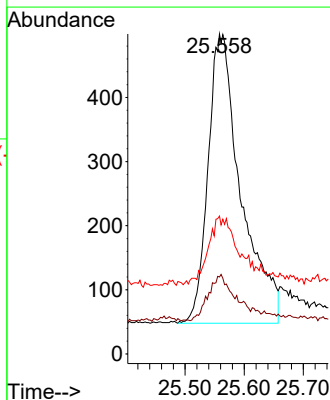
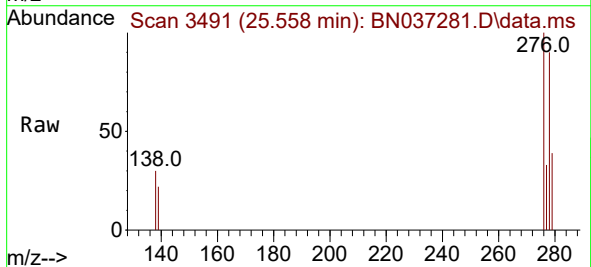


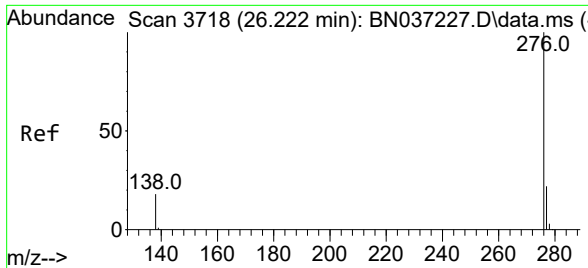
Tgt Ion:252 Resp: 1765  
Ion Ratio Lower Upper  
252 100  
253 41.4 29.4 44.2  
125 22.9 16.2 24.2



#40  
Dibenzo(a,h)anthracene  
Concen: 0.446 ng  
RT: 25.558 min Scan# 3491  
Delta R.T. -0.015 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

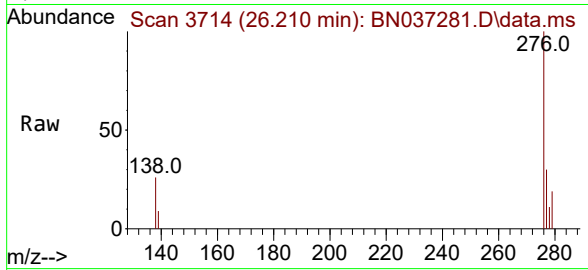
Tgt Ion:278 Resp: 1744  
Ion Ratio Lower Upper  
278 100  
139 24.0 17.8 26.6  
279 43.1 31.3 46.9





#41  
Benzo(g,h,i)perylene  
Concen: 0.422 ng  
RT: 26.210 min Scan# 31  
Delta R.T. -0.012 min  
Lab File: BN037281.D  
Acq: 15 Jun 2025 03:18

Instrument :  
BNA\_N  
ClientSampleId :  
PB168476BSD



Tgt Ion:276 Resp: 2014  
Ion Ratio Lower Upper  
276 100  
277 30.2 22.0 33.0  
138 25.6 18.4 27.6

